



**WELL HISTORY REPORT**  
**PARAMOUNT RESOURCES LTD.**

**PARA ET AL CAMERON 2H-03**

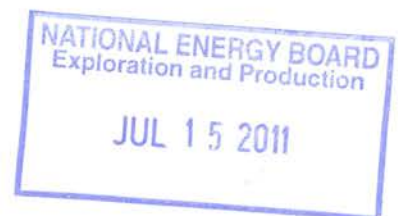
**Grid: 60° 10' 117° 30'**

**WID 2073**

**UWI 302H036010117300**

**N E B COPY**

**Prepared by:**  
**Brad Scott**  
**June 2011**



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# INTRODUCTION

## *Executive Summary*

Paramount Resources Ltd. (Paramount) drilled Para et al Cameron 2H-03 as a 2534 meter horizontal well. The well spud 2011/01/20 23:45 and final rig release was 2011/03/21 12:00. The rig was moved off location on 2011/02/04 to allow construction to run piles and repair the lease. The rig then returned to finish the hole on 2011/02/16. The purpose of the well was to evaluate hydrocarbon potential. The primary target was the Sulphur Point Dolomite formation with a secondary target in the Slave Point formation.

The drilling contractor was Nabor's Rig #24. The service rig contractor was Concord Rig #41. The swab rig contractor was Silverline.

The well was drilled on Production License No PL-017.

A cellar and conductor were pre-installed. Other than minor losses @ 152-172m, there were no significant drilling events on surface hole. A string of 244.5 mm surface casing was run to 361 m and cemented.

The casing and conductor were trimmed and the casing bowl was welded on. The BOP's were installed and function tested. The BOP's and manifold were pressure tested to 1500 kPa low pressure and 14,000 kPa high pressure (except annular preventer to 10,500 Kpa high).

The float collar and shoe were drilled out. No leak off test was performed as per waiver received 2010/11/23 from the Chief Conservation Officer of the National Energy Board. A 222 mm intermediate hole was drilled with a flocculated water system to below the Wabamun and then mudded up. No significant losses were encountered. After drilling to 1333 m MD, the lease began to settle badly around well centre making it difficult to keep the rig level over the hole. The rig was moved to the Para et al Cameron E-52 location to drill surface hole while construction ran piles and repaired the 2H-03 lease.

The rig returned to the 2H-03 location and resumed operations. It took 28 hours of reaming to return to 1333 m MD. The well was drilled to 1424 m MD where it appeared a motor failure occurred. It was determined that the mud motor had twisted off just below the dump sub. Fishing was attempted for 4.5 days without success. A 150 m cement plug was spotted from 1266 – 1416 m. The well was successfully sidetracked and drilled to an intermediate TD of 1534 m MD. Ten hours of reaming and cleaning were needed to clean the hole @ TD. The well drilled to TD without any other significant incidents.

Intermediate casing (177.8 mm) was run and cemented at 1532 m MD.

The float collar and shoe were drilled out. A 156 mm production hole was drilled with a gel/polymer mud system to a TD of 2534 m MD. The well drilled to TD without any reported losses or any other significant incidents.

A production liner (114.3 mm) incorporating a Packers Plus staged fracture set up was run to

2529m MD.

## **Completions Summary**

The well was stage acid fractured (frac'd) in the Sulphur Point Dolomite formation. Nine stages were frac'd in total, using 40 m<sup>3</sup> of Hydrochloric Acid per stage (assisted by nitrogen) followed by 10 m<sup>3</sup> of friction reduced water per stage. The frac was followed up with a 30 m<sup>3</sup> fresh water flush. Total acid pumped was 364.4 m<sup>3</sup>, total nitrogen pumped was 21,593 sm<sup>3</sup> and total water pumped was 120 m<sup>3</sup>. Total load fluid to recover from the well was 486 m<sup>3</sup>.

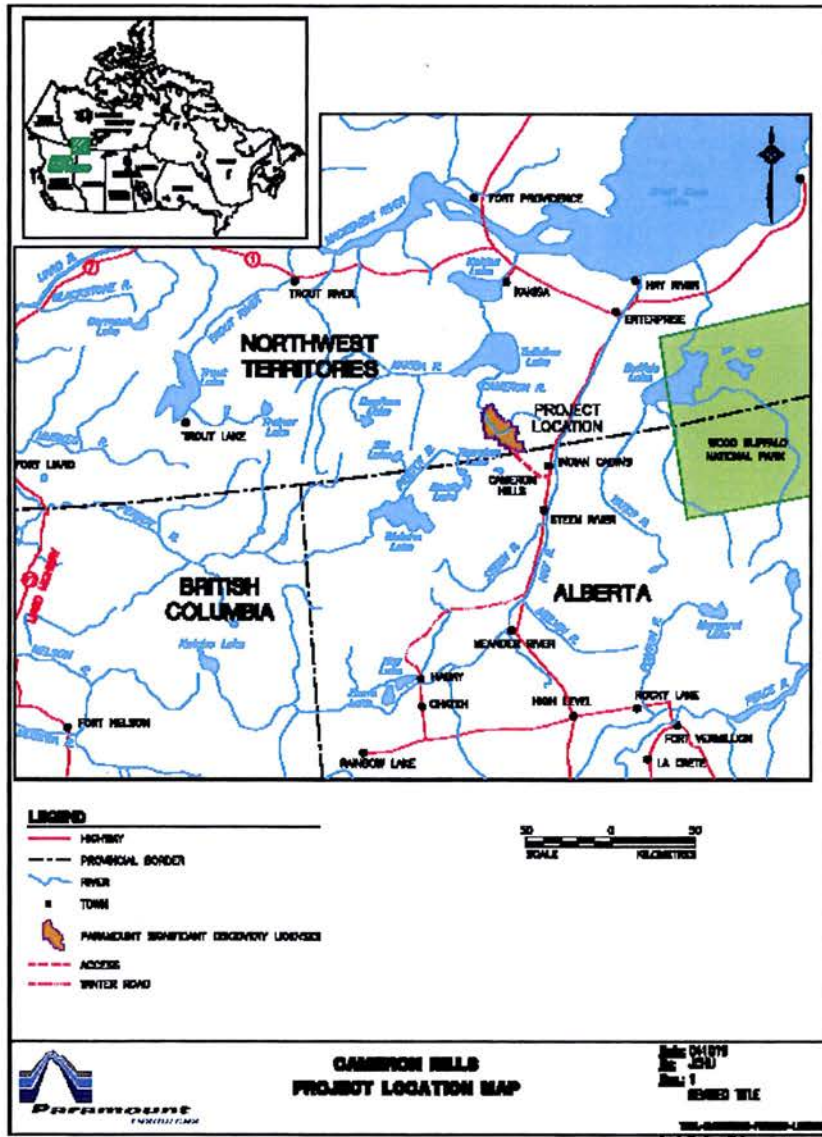
The well was opened up to flow and subsequently swabbed with the service rig and a Silverline swab rig to recover the load fluid.

A downhole pump, rods, pumping wellhead and pump jack were installed and the well was turned over to facilities to be tied in for production.

The initial shut-in casing pressure (SICP) on the well was 1988 kPa. The well was opened up to flow and 17.8 m<sup>3</sup> was recovered in the first 30 mins. An additional 3.4 m<sup>3</sup> was recovered over the next 1.5 hrs. The well was then shut in to record build up pressures.

Swab equipment was rigged in and swabbing operations were initiated to recover load fluid. After 30 hrs of swabbing, 150.76 m<sup>3</sup> of load fluid was recovered. Concord Rig #41 was rigged out and moved off of location. A Silverline swab rig was moved onto location and rigged in. The well was swabbed for four days. Total water and oil recovered was 530.4 m<sup>3</sup>. The swab report can be found in the appendices.

# Locality Map – Cameron Hills NWT



## GENERAL DATA

Well Name: Para et al Cameron 2H-03

Well Identification Number (WID): 2073

Production License: PL-017

Location Unit: H

Section: 03

Grid Area: 60° 10' 117° 30'

Classification: Delineation

Surface Coordinates:

Latitude: 60° 02' 20.4"

Longitude: 117° 30' 6.3"

Unique Well Identifier: 302H036010117300

Operator: Paramount Resources Ltd.

Drilling Contractor: Nabors Drilling

Drilling Rig: Nabors Rig # 24,  
(conventional mechanical double land rig rated for 2400 m)

Service Rig Contractor: Concord

Service Rig: Concord Rig #41

Swab Rig Contractor: Silverline

Difficulties and Delays:

Major sloughing of the lease at surface resulted in extreme difficulty keeping the rig level and operational. The rig was moved off just prior to reaching intermediate casing point so that piles could be run and the lease repaired. The rig was moved back onto location and operations resumed. A mud motor twisted off prior to intermediate casing point and several unsuccessful fishing attempts were undertaken. The well was successfully sidetracked and finished without any further difficulties.

Total Well Cost:

Drilling \$5,040,000

Completion \$1,626,500

\$ 6,666,500 5

Bottom Hole Co-ordinates:

Horizontal well

Latitude: 60° 01' 40.6"

Longitude: 117° 30' 5.7"

## SUMMARY OF DRILLING OPERATIONS

Elevations:

Ground: 770.2 m above sea level (final "as built" survey)

KB: 777.22 m above sea level (rig jacked)

KB to Casing Flange: 5.02 m

Total Depth: 2534 mMD

Date and Hour Spudded: 2011/01/20 23:45

Date of Rig Release: 2011/03/21 12:00

Well status: Cased and Producing

Hole Sizes and Depths:

Conductor Hole: 610 mm to 24.3 m

Surface Hole: 311 mm to 361 mKB

Intermediate Hole: 222 mm to 1534 mMD

Production Hole: 156 mm to 2534 mMD

Casing and Cementing Record:

Conductor Hole:

Casing Size: 406 mm

Depth Set: 24.3 m

Cement Volume: 100 sacks

Cement Type: Portland

Surface Hole:

Casing Size: 244.5 mm

Casing Weight: 48.1 kg/m

Casing Grade: H-40

Thread: ST&C

Depth Set: 360 mKB

Cement Volume: 19 Tonnes

Cement Type: MaxxCem G

Additives: 1% CaCl<sub>2</sub>

0.9% FL-5 (fluid loss control)

Cement Returns: 1.5m<sup>3</sup> to surface

Bumped Plug: 7.7 MPa

**Intermediate Hole:**

Casing Size: 177.8 mm  
Casing Weight: 34.2 kg/m  
Casing Grade: L-80  
Thread: LT&C  
Depth Set: 1534 mMD  
Cement Volume: 35.5 Tonnes  
Cement Type : MaxxCemm G  
Additives: 1% CaCl<sub>2</sub>  
0.9% FL-5 (fluid loss control)  
Cement Returns: None observed at shakers  
Bumped Plug: 12 MPa

**Fishing Operations:**

The well was drilled to 1424 m MD where it appeared a motor failure occurred. It was determined that the mud motor had twisted off just below the dump sub. Fishing was attempted for 4.5 days without success.

**Sidetracked Hole:** An 150 m cement plug was spotted from 1266 – 1416 m. The well was successfully sidetracked and drilled to an intermediate TD of 1534 m MD.

**Drilling Fluid:** See mud summary report in appendix

**Conductor Hole:** Dry drilled (auger)

**Surface Hole:** Shure Shale/PHPA

**Properties:** Viscosity: 33-40 sec/l  
Weight: 1050 - 1060 kg/m<sup>3</sup>  
pH: 8.0

**Remarks:** Gravel, rocks, loose sand 30-120m  
Foaming & sticky natural clays

**Int Hole (361– 1000 m):** Floc water

**Properties:** Viscosity: 28-58 sec/l  
Weight: 1000 - 1450 kg/m<sup>3</sup>  
pH: 8.0 - 10  
**Remarks:** No lost circulation in Wabamun

**Int Hole (1000 – 1534m):** Shure Shale/PHPA

**Properties:** Viscosity: 32 - 37 sec/l  
Weight: 1040 - 1050 kg/m<sup>3</sup>  
pH: 9.0 – 10.5  
**Remarks:** Lots of foaming after cement plug

**Prod Hole (1534-2534m):** Low Density Polymer System

**Properties:** Viscosity: 38 – 40 sec/l



Weight: 1010 – 1040 kg/m<sup>3</sup>  
pH: 9.5 – 10.5  
Remarks: Minor issues sliding later part of  
Lateral section

Well Kicks and Well Control Operations: None

Formation Leak Off Tests:

No leak off test was performed as per waiver received 2010/11/23 from the Chief Conservation Officer of the National Energy Board.

Deviation Survey: Horizontal Well (see directional surveys in Appendices)

## COMPLETIONS

The well is currently multi-stage frac'd in the Sulphur Point Dolomite and on production.

### Completion Operations

The well was strage acid fractured (frac'd) in the Sulphur Point Dolomite formation. Nine stages were frac'd in total, using 40 m3 of Hydrochloric Acid per stage (assisted by nitrogen) followed by 10 m3 of friction reduced water per stage. The frac was followed up with a 30 m3 fresh water flush. Total acid pumped was 364.4 m3, total nitrogen pumped was 21,593 sm3 and total water pumped was 120 m3. Total load fluid to recover from the well was 486 m3.

The initial shut-in casing pressure (SICP) on the well was 1988 kPa. The well was opened up to flow and 17.8 m3 was recovered in the first 30 mins. An additional 3.4 m3 was recovered over the next 1.5 hrs. The well was then shut in to record build up pressures.

Swab equipment was rigged in and swabbing operations were initiated to recover load fluid. After 30 hrs of swabbing, 150.76 m3 of load fluid was recovered. Concord Rig #41 was rigged out and moved off of location. A Silverline swab rig was moved onto location and rigged in. The well was swabbed for four days. Total water and oil recovered was 530.4 m3. The swab report can be found in the appendices.

A downhole pump, rods, pumping wellhead and pump jack were installed and the well was turned over to facilities to be tied in for production.

# GEOLOGY

## Geological Markers

K.B: 777.22m

| FORMATION<br>MARKER            | SAMPLE TOP |         | LOGS TOP |         |            |
|--------------------------------|------------|---------|----------|---------|------------|
|                                | TMD (m)    | TVD(m)  | TMD (m)  | TVD(m)  | Subsea (m) |
| WABAMUN                        | -          | -       | 551.5    | 551.5   | 225.72     |
|                                | -          | -       |          |         |            |
| JEAN MARIE                     | -          | -       | 712.0    | 712.0   | 065.22     |
|                                |            |         |          |         |            |
| FORT SIMPSON                   | -          | -       | 720.0    | 720.0   | 057.22     |
|                                |            |         |          |         |            |
| TWIN FALLS                     | -          | -       | 832.0    | 832.0   | 054.78     |
|                                |            |         |          |         |            |
| HAY RIVER                      | -          | -       | 1065.0   | 1065.0  | -287.78    |
|                                |            |         |          |         |            |
| BEAVERHILL<br>LAKE             | 1325.0     | 1322.0  | 1325.0   | 1322.0  | -544.78    |
|                                |            |         |          |         |            |
| SLAVE POINT                    | 1353.0     | 1346.0  | 1352.0   | 1345.5  | -568.28    |
|                                |            |         |          |         |            |
| F 4                            | 1412.0     | 1387.0  | 1411.5   | 1386.5  | -609.28    |
|                                |            |         |          |         |            |
| WATT<br>MOUNTAIN               | 1425.5     | 1394.0  | 1424.0   | 1393.5  | -616.28    |
|                                |            |         |          |         |            |
| SULPHUR POINT<br>LST           | 1433.0     | 1397.5  | 1431.5   | 1397.0  | -619.78    |
|                                |            |         |          |         |            |
| SULPHUR POINT<br>DOL.          | 1483.5     | 1415.0  | 1486.0   | 1415.0  | -638.56    |
|                                |            |         |          |         |            |
| ICP/LANDING                    | 1534.0     | 1422.26 | -        | -       | -645.04    |
|                                |            |         |          |         |            |
| LR. SULPHUR PT.<br>DOL AT HEEL |            |         | 1544.0   | 1423.02 | -645.80    |
|                                |            |         |          |         |            |
| LR. SULPHUR PT.<br>DOL AT TOE  |            |         | 2530.0   | 1421.22 | -644.00    |
|                                |            |         |          |         |            |
| TOTAL DEPTH<br>DRILLER         | 2537.0     | 421.20  | 2537.0   | 1421.20 | -643.98    |
|                                |            |         |          |         |            |
| TOTAL DEPTH<br>LOGGERS         |            |         | 2535.1   | 1421.20 | -643.98    |

(From Geological Report – full version in the Appendices)  
Sample Descriptions: See the Geological Report in the Appendices.

Gas detection report:

A gas detector was utilized from the drill out of the conductor pipe to total depth. The gas detector readings are included on the composite geological log in the Appendices.

Well evaluation:

The following logs were run:

|  |                 |
|--|-----------------|
| Compensated Neutron Density Gamma Ray Log: | 5.05 - 2511 mMD |
| Density Porosity Log:                      | 1532 - 2511 mMD |
| Dual Induction Gamma Ray:                  | 1532 - 2511 mMD |

## APPENDICES

1. Daily Drilling Reports
2. Casing and Cementing Reports
3. Daily Completion Reports
4. Stimulation and Tubing Reports
5. Geological Report
6. Geological Striplog
7. Drilling Fluid Reports
8. Directional Surveys
9. Swab Reports



**Paramount**  
resources ltd.

**Daily Drilling**

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/17/2011  
Report #: 1.0  
Depth Progress:

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 457,375  
Cum Cost to Date: 457,375

|                                  |  |                                       |                   |                                      |
|----------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     | Rig Release Date<br>3/21/2011 12:00            |                                       | DFS: -2.56days    |                                      |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

|  |  |  |                                |  |
|--|--|--|--------------------------------|--|
| <b>Daily Operations</b>  |  |  |                                |  |
| Start Depth (mKB)<br>0.00  | End Depth (mKB)<br>0.00                | Target Formation<br>Sulphur Point          | Target Depth (mKB)<br>2,534.00 |  |
| Weather<br>light snow  | Temperature (°C)<br>-35                | Lease Condition                            |                                |  |
| Operation at 6am<br>Wait on daylight to start load out from Rainbow Lake   |  |  |                                |  |
| Operations Summary<br>Transported 10 loads from the rack site in Rainbow Lake to location, only 4 trucks unloaded on site. Drilled the Rathole and spotted the Wellsite supervisors shack, issues with communication and the rental generator delayed rig up a great deal. |  |  |                                |  |
| Operations Next Report Period<br>Move the rig from Rainbow Lake to location,   |  |  |                                |  |
| Remarks<br>Entered all cost estimates for wellsite access, construction, engineering and things of that nature.  |  |  |                                |  |
| Avg Connection Gas (Units)   | Avg Background Gas (Units)             | Avg Trip Gas (Units)                       | Max H2S (Units)                |  |
| Head Count<br>26.0   | Personnel Total Hours (hr)<br>1,172.00 | Cum Personnel Total Hours (hr)<br>1,172.00 |                                |  |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
| Title<br>Tool Push        | Job Contact<br>Mike Nugent   | Phone Mobile<br>866 499 7213 |

| <b>TIME LOG SUMMARY</b> |          |          |              |                |  |
|-------------------------|----------|----------|--------------|----------------|--|
| Start Time              | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com  |
| 00:00                   | 07:45    | 7.75     | 7.75         | W/O Daylight   | W/O DAYLIGHT   |
| 07:45                   | 08:00    | 0.25     | 8.00         | Safety meeting | SAFETY MEETING WITH MULLEN TRUCKING  |
| 08:00                   | 16:00    | 8.00     | 16.00        | Move rig       | LOAD UP AND MOVE THE RIG FROM FLINTS YARD IN RAINBOW LAKE TO NEW LOCATION IN NWT |
| 16:00                   | 18:00    | 2.00     | 18.00        | Move rig       | SPOT & RIG UP SHACKS   |
| 18:00                   | 00:00    | 6.00     | 24.00        | W/O Daylight   | W/O DAYLIGHT TO SPOT MATTING & RIG   |

|                               |                            |                           |                  |                            |                      |                          |
|-------------------------------|----------------------------|---------------------------|------------------|----------------------------|----------------------|--------------------------|
| <b>MUD CHECKS</b>             |                            |                           |                  |                            |                      |                          |
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L) | Calcium (mg/L)             | Lime (kg/m³)         | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)       | Temp Bottom Hole (°C)      | HTHP Pressure (kPa)  | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) |                  | Daily Mud Field Est (Cost) | Cum Mud Field Est... |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH               | PV Override (cp)           | YP Override (Pa)     |                          |

|                      |                       |          |
|----------------------|-----------------------|----------|
| <b>MUD ADDITIVES</b> |                       |          |
| Des                  | Field Est (Cost/unit) | Consumed |

|                  |                   |                  |                           |
|------------------|-------------------|------------------|---------------------------|
| <b>MUD PUMPS</b> |                   |                  |                           |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number<br>1 | Rod Diameter (mm) | 127.0            | Pump Rating (kW)<br>800.0 |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 1/17/2011

Report #: 1.0

Depth Progress:

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 457,375

Cum Cost to Date: 457,375

DFS: -2.56days

#### BIT SUMMARY

| Bit Run | Bit Type | Size (mm) | Make | Model | Serial Number | IADC Codes |
|---------|----------|-----------|------|-------|---------------|------------|
|         |          |           |      |       |               |            |

#### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

#### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
|                   |                 |                           |                               |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

#### SAFETY CHECKS

| Date | Type | Des |
|------|------|-----|
|      |      |     |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
|                |                    |                       |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/18/2011  
Report #: 2.0  
Depth Progress:

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 167,735  
Cum Cost to Date: 625,110

|                                  |  |                                       |                   |                                      |
|----------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UMI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     | Rig Release Date<br>3/21/2011 12:00            |                                       | DFS: -1.56days    |                                      |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

## Daily Operations

|                           |                         |                                   |                                |
|---------------------------|-------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>0.00 | End Depth (mKB)<br>0.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|---------------------------|-------------------------|-----------------------------------|--------------------------------|

|                     |                         |                 |
|---------------------|-------------------------|-----------------|
| Weather<br>overcast | Temperature (°C)<br>-32 | Lease Condition |
|---------------------|-------------------------|-----------------|

Operation at 6am  
Two rig hands watching the boiler and running cords

Operations Summary  
Spotted all the rental and rig matting, all rig and rental buildings spotted. Trucks were released @ 17:00hrs, the rig crew ran fuel, power cables and air lines in preparation for raising the derrick. The derrick was raised @ 17:30 hours and was telescoped out @ 19:30hrs. The boiler was fired and two Nabors crew members worked the night shift to monitor the boiler, tidy up and run cords

Operations Next Report Period  
General rig up and rental equipment tie in, conduct the rig electrical inspection

Remarks  
We began the day with the orientation and the introduction of the Cameron Hills winter drilling program. Discussed in depth all aspects of the Paramount Tri Fold safety book, specific attention was directed at project overview, personnel responsibilities, environmental sensitivities and the drilling of the 2H-03 well.

Incidents: The trucking supervisor slipped and rolled his ankle, he reported it straight away then returned to work  
No equipment damage on the rig move

|                            |  |  |                 |
|----------------------------|--|--|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)             | Avg Trip Gas (Units)                       | Max H2S (Units) |
| Head Count<br>52.0         | Personnel Total Hours (hr)<br>1,016.00 | Cum Personnel Total Hours (hr)<br>2,188.00 |                 |

## DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com  |
|------------|----------|----------|--------------|----------------|--|
| 00:00      | 07:30    | 7.50     | 7.50         | W/O Daylight   | W/O DAYLIGHT TO SPOT THE MATTING & RIG   |
| 07:30      | 08:00    | 0.50     | 8.00         | Safety meeting | RIG CREW ORIENTATION AND INTRODUCTION TO THE CAMERON HILLS WINTER DRILLING PROGRAM, DISCUSSED ALL ASPECTS OF THE PARAMOUNT TRI FOLD SAFETY BOOK, SPECIFIC ATTENTION DIRECTED AT PROJECT OVERVIEW, SAFETY, ENVIRONMENTAL ISSUES, THE DRILLING OF THE 2H-03 WELL |
| 08:00      | 08:30    | 0.50     | 8.50         | Safety meeting | COMPLETED ORIENTATION AND SAFETY MEETING, HELD PRE RIG MOVE AND RIG UP SAFETY MEETINGS   |
| 08:30      | 16:00    | 7.50     | 16.00        | Move rig       | SPOT MATTING, RIG & SHALE TANK   |
| 16:00      | 18:00    | 2.00     | 18.00        | Rig up         | RIG UP FUEL, STEAM LINES, AIR, HYDRAULIC LINES & RAISE THE DERRICK / SPOT FUEL TANK, CENTRIFUGE TANK & 400 BBL TANKS, SPOTTED THE BJ SKID PUMPER UNIT, PLAN ON SLIDING THE GENERATOR INTO PLACE WHEN BJ DOES ARRIVE TO CEMENT SURFACE CASING                   |
| 18:00      | 20:00    | 2.00     | 20.00        | Rig up         | RIG UP FUEL, STEAM LINES, AIR, HYDRILIC LINES & RAISE THE DERRICK / SPOT FUEL TANK, CENTRIFUGE TANK & 400 BBL TANKS  |
| 20:00      | 00:00    | 4.00     | 24.00        | Rig up         | CIRCULATE & MONITOR BOILER, RUN POWER CORDS AND TIDY UP  |

## MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |

## MUD ADDITIVES

|     |                       |          |
|-----|-----------------------|----------|
| Des | Field Est (Cost/unit) | Consumed |
|-----|-----------------------|----------|



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/18/2011  
 Report #: 2.0  
 Depth Progress:

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 167,735  
 Cum Cost to Date: 625,110

DFS: -1.56days

#### MUD PUMPS

|                  |                   |                  |
|------------------|-------------------|------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |

#### BIT SUMMARY

|              |                                |                   |                    |                |               |            |
|--------------|--------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                       | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB) Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

#### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|----------|---------|---------|-----|---------|-------------|

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| PM (rpm)          | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

#### SAFETY CHECKS

| Date      | Type           | Des           |
|-----------|----------------|---------------|
| 1/18/2011 | Safety Meeting | RIG MOVE      |
| 1/18/2011 | Safety Meeting | RAISE DERRICK |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|------|-----|------|

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|----------|---------|---------|-----------------|-----------------|-----------------|

#### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
|----------------|--------------------|-----------------------|





# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 1/19/2011

Report #: 3.0

Depth Progress:

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 129,144

Cum Cost to Date: 754,254

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: -0.56days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

## Daily Operations

|                           |                         |                                   |                                |
|---------------------------|-------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>0.00 | End Depth (mKB)<br>0.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|---------------------------|-------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-24 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am

General rig up and prepping to spud

Operations Summary

Installed heads and liners in the mud pump, thawed mud lines and gun lines. Rigged in lights and power cords, spotted rental flare tank and tied in the gut line. Installed rig prefabs and rigged up the drill floor. Wellsite trailer sewer line install completed (took 36 hrs)  
Welders truck broke down, sent him out on a Tow Truck, he is to return in the morning

Rigged in the United Oilfield centrifuge and floc tank, built snow ramps for the open ended shale bins

Welded conductor pipe and installed drain

Operations Next Report Period

Continue general rig up, inspect the rig and spud the well

Remarks

No accidents or incidents

Nabors field sup was completing the Nabors drilling rig inspections

Laforce electric was on location to perform the required electrical inspection, a few deficiencies were noted and will be rectified Jan 2011

Nabors rig mechanic and welder modifying all rig engine crankshaft breathers so they are self contained and do not breathe through the floors

ook delivery of the Mud Van and the teledrift survey tool

The camp light plant was down for 2 hours, fuel issues. The camp refrigerator compressor was changed  
INAC was out to perform a sight inspection

|                            |                                      |  |                 |
|----------------------------|--------------------------------------|--|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                       | Max H2S (Units) |
| Head Count<br>26.0         | Personnel Total Hours (hr)<br>600.00 | Cum Personnel Total Hours (hr)<br>2,788.00 |                 |

## DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com  |
|------------|----------|----------|--------------|----------------|--|
| 00:00      | 07:00    | 7.00     | 7.00         | Rig up         | conintue to monitor boiler & tidy rig  |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting | pretour safety meeting   |
| 07:15      | 12:00    | 4.75     | 12.00        | Rig up         | rig up water weld on conductor bbl, install prefabs in cellar & drill floor  |
| 12:00      | 18:45    | 6.75     | 18.75        | Rig up         | Rig in floor mud tank pump manifold pason rig up flare tank & Lines ( Inspect All power outlets & Lines with Laforce safe work permit # 4843 ), pick up kelly, rig up centerfudge tank |
| 18:45      | 19:00    | 0.25     | 19.00        | Safety meeting | Handover safety meeting with rig crews   |
| 19:00      | 00:00    | 5.00     | 24.00        | Rig up         | Cont to rig Steam into manifold bulding dress pump with 6" liners  |

## MUD CHECKS

|                               |                            |                           |                            |                       |                    |                         |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|--------------------|-------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)       | Potassium (mg/L)        |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HHP Pressure (kPa) | HHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                    |                         |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)   |                         |

## MUD ADDITIVES

|     |                       |          |
|-----|-----------------------|----------|
| Des | Field Est (Cost/unit) | Consumed |
|     |                       |          |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 1/19/2011

Report #: 3.0

Depth Progress:

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 129,144

Cum Cost to Date: 754,254

DFS: -0.56days

### MUD PUMPS

|                  |                   |                  |
|------------------|-------------------|------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |

### BIT SUMMARY

|              |                |                 |                   |                    |                |               |
|--------------|----------------|-----------------|-------------------|--------------------|----------------|---------------|
| Bit Run      | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes    |
| Nozzles (mm) | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| M (rpm)           | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des   |
|-----------|----------------|---|
| 1/19/2011 | Safety Meeting | RIG UP                                      |
| 1/20/2011 | Safety Meeting | Rigging up flare tank & other rig equipment |
| 1/20/2011 | Safety Meeting | Rigging up flare tank & other rig equipment |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
|                |                    |                       |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/20/2011  
Report #: 4.0  
Depth Progress: 10.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 80,998  
Cum Cost to Date: 835,252

|                                  |  |                             |                                       |                                      |
|----------------------------------|--|-----------------------------|---------------------------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills | License #<br>2073                     | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  |                             | Rig Release Date<br>3/21/2011 12:00   | DFS: 0.44days                        |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            |                             | KB-Casing Flange Distance (m)<br>5.02 |                                      |

|   |                                      |  |                                |  |
|---|--------------------------------------|--|--------------------------------|--|
| <b>Daily Operations</b>   |                                      |  |                                |  |
| Start Depth (mKB)<br>23.77  | End Depth (mKB)<br>27.00             | Target Formation<br>Sulphur Point          | Target Depth (mKB)<br>2,534.00 |  |
| Weather<br>Overcast   | Temperature (°C)<br>-25              | Lease Condition                            |                                |  |
| Operation at 6am<br>Drilling 311mm surface hole @ 75m   |                                      |  |                                |  |
| Operations Summary<br>Continued with general rig up, crackshaft breather installation completed by Nabors mechanic and rig welder. Shale slide modification completed. Rig up centrifuge and plumbed 3rd party enviro tank. Strapped bha made up kelly, hooked up Pason cables and flow sho. Built snow ramps for shale tanks |                                      |  |                                |  |
| Conducted drilling rig inspection and completed drilling rig electrical inspection. Hazard hunt and pre-spud meeting held with all drilling personnel Made up the 311mm bha, checked circulating system and spudded the well.   |                                      |  |                                |  |
| 2H-03 spudded @ 23:45hrs  |                                      |  |                                |  |
| Operations Next Report Period<br>Drill ahead  |                                      |  |                                |  |
| Remarks   |                                      |  |                                |  |
| Avg Connection Gas (Units)  | Avg Background Gas (Units)           | Avg Trip Gas (Units)                       | Max H2S (Units)                |  |
| Head Count<br>26.0  | Personnel Total Hours (hr)<br>600.00 | Cum Personnel Total Hours (hr)<br>3,388.00 |                                |  |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                |  |
|------------------|----------|----------|--------------|----------------|--|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com  |
| 07:00            | 14:00    | 7.00     | 14.00        | Rig up         | CONT TO RIG UP FLARE TANK MUD TANK HY PIPE TUB & MOVE BHA TO CATWALK   |
| 00:00            | 07:00    | 7.00     | 7.00         | Rig up         | CONT TO RIG UP FLARE TANK MUD TANK HY PIPE TUB & MOVE BHA TO CATWALK   |
| 14:15            | 14:30    | 0.25     | 14.50        | Safety meeting | HANDOVER SAFETY MEETING WITH RIG CREWS   |
| 14:00            | 14:15    | 0.25     | 14.25        | Safety meeting | HANDOVER SAFETY MEETING WITH RIG CREWS   |
| 19:15            | 00:00    | 4.75     | 24.00        | Rig up         | CONT TO RIG UP, PREPARE BHA, STRAP, AND CALIPER SAME. ASSIST WELDER AND MECHANIC, THAW OUT MUD TANKS, RIG UP CENTERFUGE  |
| 14:30            | 19:15    | 4.75     | 19.25        | Rig up         | CONT TO RIG UP, PREPARE BHA, STRAP, AND CALIPER SAME. ASSIST WELDER AND MECHANIC, THAW OUT MUD TANKS, RIG UP CENTERFUGE  |
| 07:00            | 14:00    | 7.00     | 38.00        | Rig up         | MIX SPUD MUD. MODIFY SHAKER SLIDE FOR SHALE DRYER, ASSIST WELDER AND MECHANIC WITH RIG MODIFICATIONS (SPILL PREVENTION) PREPARE TO SPUD, COMPLETED TIE IN OF ENVIRO TANK, COMPLETED ELECTRICAL INSPECTION, RIG IN SHALE DRYER, BUILD SNOW RAMPS, STRAP BHA |
| 00:00            | 07:00    | 7.00     | 31.00        | Rig up         | MIX SPUD MUD. MODIFY SHAKER SLIDE FOR SHALE DRYER, ASSIST WELDER AND MECHANIC WITH RIG MODIFICATIONS (SPILL PREVENTION) PREPARE TO SPUD, COMPLETED TIE IN OF ENVIRO TANK, COMPLETED ELECTRICAL INSPECTION, RIG IN SHALE DRYER, BUILD SNOW RAMPS, STRAP BHA |
| 14:15            | 14:30    | 0.25     | 38.50        | Safety meeting | SAFETY MEETING WITH BOTH RIG CREWS, PARAMOUNT REP, MUD ENGINEER, TOPIC OF DISCUSSION RELATING TO CREW AND OVERALL SITE COMMUNICATION, WORKING TOGETHER AND THINGS OF THAT NATURE   |
| 14:00            | 14:15    | 0.25     | 38.25        | Safety meeting | SAFETY MEETING WITH BOTH RIG CREWS, PARAMOUNT REP, MUD ENGINEER, TOPIC OF DISCUSSION RELATING TO CREW AND OVERALL SITE COMMUNICATION, WORKING TOGETHER AND THINGS OF THAT NATURE   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/20/2011  
Report #: 4.0  
Depth Progress: 10.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 80,998  
Cum Cost to Date: 835,252

DFS: 0.44days

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com   |
|------------|----------|----------|--------------|----------------|---|
| 18:30      | 22:30    | 4.00     | 46.50        | Rig up         | WORKED OUT PASON ISSUES, WORKED ON PUMP CLUTCH AIR LINE, FUNCTIONED MOTOR KILLS, GENERAL RIG CLEANUP, MAKE UP 311MM BIT AND 203MM BHA                                   |
| 14:30      | 18:30    | 4.00     | 42.50        | Rig up         | WORKED OUT PASON ISSUES, WORKED ON PUMP CLUTCH AIR LINE, FUNCTIONED MOTOR KILLS, GENERAL RIG CLEANUP, MAKE UP 311MM BIT AND 203MM BHA                                   |
| 22:45      | 23:00    | 0.25     | 47.00        | Safety meeting | ENGAGED MUD PUMP AND TESTED CIRCULATORY SYSTEM, CONDUCTED HAZARD HUNT   |
| 22:30      | 22:45    | 0.25     | 46.75        | Safety meeting | ENGAGED MUD PUMP AND TESTED CIRCULATORY SYSTEM, CONDUCTED HAZARD HUNT   |
| 23:15      | 23:30    | 0.25     | 47.50        | Safety meeting | PRE-SPUD SAFETY MEETING, DISCUSSED DRILLING PARAMETERS, FLUID AND CUTTINGS HANDLING, RE-INFORCED THE IMPORTANCE OF HANDLING TUBULARS, EMERGENCY CONTACTS AND PROCEDURES |
| 23:00      | 23:15    | 0.25     | 47.25        | Safety meeting | PRE-SPUD SAFETY MEETING, DISCUSSED DRILLING PARAMETERS, FLUID AND CUTTINGS HANDLING, RE-INFORCED THE IMPORTANCE OF HANDLING TUBULARS, EMERGENCY CONTACTS AND PROCEDURES |
| 23:45      | 00:00    | 0.25     | 48.00        | Drill          | DRILL 311MM FR/22M TO 27M   |
| 23:30      | 23:45    | 0.25     | 47.75        | Drill          | DRILL 311MM FR/22M TO 27M   |

## MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| W Gravity Solids (%)          | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 8,877.44            | 8,877.44                 |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
| 1.77                          | 1010.0                     | 35                        | 9.0                        |                       |                     |                          |

## MUD ADDITIVES

| Des                  | Field Est (Cost/unit) | Consumed |
|----------------------|-----------------------|----------|
| ALKAPAM 1103D        | 227.00                | 2.0      |
| DEFOAMER XL          | 210.34                | 2.0      |
| DRISPAC PLUS REGULAR | 198.45                | 5.0      |
| HYPERDRILL 247RD     | 227.45                | 4.0      |
| INHIBIDRILL          | 195.51                | 21.0     |
| KELZAN               | 498.75                | 4.0      |

## MUD PUMPS

|                  |                   |                  |
|------------------|-------------------|------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| 127.0            | 800.0             |                  |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |

## BIT SUMMARY

|              |                         |                          |                           |                            |                         |                        |
|--------------|-------------------------|--------------------------|---------------------------|----------------------------|-------------------------|------------------------|
| Bit Run<br>1 | Bit Type<br>Bit         | Size (mm)<br>311.2       | Make<br>KINGDREAM         | Model<br>HT03GLC           | Serial Number<br>L29145 | IADC Codes<br>417      |
| Nozzles (mm) | Depth In (mKB)<br>22.00 | Depth Out (mKB)<br>27.00 | Depth Drilled (m)<br>5.00 | Drilling Time (hr)<br>0.25 | BHA ROP (m/hr)<br>20.0  | IADC Bit Dull<br>----- |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/20/2011  
 Report #: 4.0  
 Depth Progress: 10.00

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 80,998  
 Cum Cost to Date: 835,252

DFS: 0.44days

#### DRILL STRING COMPONENTS

| Item Des     | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|--------------|---------|---------|-----|---------|-------------|
| X/O          | 76.0    | 295.0   | 1   | 0.67    | 20.39       |
| DC (8.00 IN) | 76.0    | 198.0   | 1   | 9.17    | 19.72       |
| DC (8.00 IN) | 76.0    | 195.0   | 1   | 9.39    | 10.55       |
| BIT SUB      | 74.0    | 202.0   | 1   | 0.82    | 1.16        |

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                       |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|-----------------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa)        |
| 22.00             | 27.00           |                           | 3,000                         |                    |                    |                       |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                       |
| 100               |                 | 100                       |                               | 0.25               |                    |                       |
| Bit Run           | Bit Type        | Size (mm)                 | Make                          | Model              | Serial Number      | IADC Codes            |
| 1                 | Bit             | 311.2                     | KINGDREAM                     | HT03GLC            | L29145             | 417                   |
| Nozzles (mm)      | Depth In (mKB)  | Depth Out (mKB)           | Depth Drilled (m)             | Drilling Time (hr) | BHA ROP (m/hr)     | IADC Bit Dull         |
|                   | 23.77           | 361.00                    | 339.00                        | 28.00              | 12.1               | 2-2-WT-A-E-0.00-NO-TD |

#### DRILL STRING COMPONENTS

| Item Des            | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|---------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Stands |         |         | 5   | 94.74   | 369.67      |
| X/O                 | 76.0    | 295.0   | 1   | 0.67    | 274.93      |
| HWDP(4.0 IN)        | 64.0    | 102.0   | 9   | 84.41   | 274.26      |
| DC (8.00 IN)        | 76.0    | 198.0   | 1   | 9.17    | 189.85      |
| C (5.00 IN)         | 60.0    | 126.0   | 9   | 86.41   | 180.68      |
| C (8.00 IN)         | 76.0    | 195.0   | 1   | 9.39    | 94.27       |
| JARS-HYD/MECH       | 59.0    | 125.0   | 1   | 5.32    | 84.88       |
| BIT SUB             | 74.0    | 202.0   | 1   | 0.82    | 79.56       |
| DC (5.00 IN)        | 60.0    | 126.0   | 5   | 47.96   | 78.74       |
| DC (5.00 IN)        | 60.0    | 128.0   | 1   | 9.58    | 30.78       |
| X/O                 | 62.0    | 158.0   | 1   | 0.81    | 21.20       |
| X/O                 | 76.0    | 295.0   | 1   | 0.67    | 20.39       |
| DC (8.00 IN)        | 76.0    | 198.0   | 1   | 9.17    | 19.72       |
| DC (8.00 IN)        | 76.0    | 195.0   | 1   | 9.39    | 10.55       |
| BIT SUB             | 74.0    | 202.0   | 1   | 0.82    | 1.16        |

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 23.77             | 28.77           |                           | 3,000                         |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 100               |                 | 100                       |                               | 0.25               |                    |                |

#### SAFETY CHECKS

| Date      | Type           | Des                |
|-----------|----------------|--------------------|
| 1/21/2011 | Safety Meeting | CHEAGING WASH PIPE |
| 1/21/2011 | Safety Meeting | CHEAGING WASH PIPE |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 1/21/2011 | 34.00    | 0.00     | 0.00    | 34.00     | 0.00   | 0.00   | 0.00   | 0.00        |
| 21/2011   | 35.77    | 0.00     | 0.00    | 35.77     | 0.00   | 0.00   | 0.00   | 0.00        |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 1/20/2011  
Report #: 4.0  
Depth Progress: 10.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 80,998  
Cum Cost to Date: 835,252

DFS: 0.44days

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
|----------------|--------------------|-----------------------|



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 1/21/2011  
Report #: 5.0  
Depth Progress: 196.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 59,071  
Cum Cost to Date: 894,323

|                                  |  |                                       |                   |                                      |
|----------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UMI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     | Rig Release Date<br>3/21/2011 12:00            |                                       | DFS: 1.44days     |                                      |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

#### Daily Operations

|                            |                           |                                   |                                |
|----------------------------|---------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>27.00 | End Depth (mKB)<br>223.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|----------------------------|---------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-23 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Drilling 311mm surface hole @ 317m

#### Operations Summary

Drilled surface hole from 23m to 223m. Hole cleaning well, no issues. The Swivel washpipe was replaced, pump liner and gasket needed changing, we tripped into the conductor and replaced the dies on the kelly spinner, connections were taking 20m using chain tongs. The teledrift survey tool was not working, began running wireline surveys @ 91m survey depth

#### Operations Next Report Period

Drill to 350m+/- wiper trip and strap out, drill to TD

#### Remarks

DELIVERIES: 244.5mm casing delivered

Laforce Electric service and inspection costs for the camps and the rig entered, will forward inspection letters when they arrive.

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                    |                                      |  |
|--------------------|--------------------------------------|--|
| Head Count<br>25.0 | Personnel Total Hours (hr)<br>576.00 | Cum Personnel Total Hours (hr)<br>3,964.00 |
|--------------------|--------------------------------------|--|

#### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

#### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2           | Com  |
|------------|----------|----------|--------------|------------------|--|
| 02:45      | 05:30    | 2.75     | 5.50         | Drill            | DRILL 311MM HOLE FR/27M TO 45M   |
| 00:00      | 02:45    | 2.75     | 2.75         | Drill            | DRILL 311MM HOLE FR/27M TO 45M   |
| 06:00      | 06:30    | 0.50     | 6.50         | Rig Service      | RIG SERVICE GREASE WASH PIPE CHECK OIL LEVEL IN FLOOR MOTOR TIGHTEN DRIVE LINE BOLTS |
| 05:30      | 06:00    | 0.50     | 6.00         | Rig Service      | RIG SERVICE GREASE WASH PIPE CHECK OIL LEVEL IN FLOOR MOTOR TIGHTEN DRIVE LINE BOLTS |
| 07:30      | 08:30    | 1.00     | 8.50         | Drill            | DRILL 311MM HOLE FR/ 45M TO 55M  |
| 06:30      | 07:30    | 1.00     | 7.50         | Drill            | DRILL 311MM HOLE FR/ 45M TO 55M  |
| 09:15      | 10:00    | 0.75     | 10.00        | Other            | CHANGED OUT WASH PIPE  |
| 08:30      | 09:15    | 0.75     | 9.25         | Other            | CHANGED OUT WASH PIPE  |
| 12:00      | 14:00    | 2.00     | 14.00        | Drill            | DRILL 311MM HOLE FR/ 55M TO 81M  |
| 10:00      | 12:00    | 2.00     | 12.00        | Drill            | DRILL 311MM HOLE FR/ 55M TO 81M  |
| 14:15      | 14:30    | 0.25     | 14.50        | Safety meeting   | HANDOVER SAFETY MEETING  |
| 14:00      | 14:15    | 0.25     | 14.25        | Safety meeting   | HANDOVER SAFETY MEETING  |
| 15:00      | 15:30    | 0.50     | 15.50        | Drill            | DRILL 311MM HOLE FROM 81M-94M  |
| 14:30      | 15:00    | 0.50     | 15.00        | Drill            | DRILL 311MM HOLE FROM 81M-94M  |
| 15:30      | 16:15    | 0.75     | 16.25        | Repair Rig       | CHANGE LINER GASKET  |
| 16:15      | 17:00    | 0.75     | 17.00        | Other            | CHANGE LINER GASKET  |
| 17:15      | 17:30    | 0.25     | 17.50        | Ream & Clean     | REAM & CLEAN TO BOTTOM   |
| 17:00      | 17:15    | 0.25     | 17.25        | Ream & Clean     | REAM & CLEAN TO BOTTOM   |
| 19:00      | 20:30    | 1.50     | 20.50        | Drill            | DRILL 311MM HOLE FROM 94M-99M  |
| 17:30      | 19:00    | 1.50     | 19.00        | Drill            | DRILL 311MM HOLE FROM 94M-99M  |
| 21:30      | 22:30    | 1.00     | 22.50        | Deviation survey | CUMMULATIVE SURVEYS, CONNECTIONS, WORK PIPE  |
| 20:30      | 21:30    | 1.00     | 21.50        | Deviation survey | CUMMULATIVE SURVEYS, CONNECTIONS, WORK PIPE  |
| 18:15      | 00:00    | 0.75     | 24.00        | Rig Repair       | RIG REPAIR PULL 2 STANDS CHANGE OUT KELLY SPINNER DIES                               |
| 17:30      | 22:30    | 0.75     | 23.25        | Rig Repair       | RIG REPAIR PULL 2 STANDS CHANGE OUT KELLY SPINNER DIES                               |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 1/21/2011

Report #: 5.0

Depth Progress: 196.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 59,071

Cum Cost to Date: 894,323

DFS: 1.44days

#### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                                 | Com  |
|------------|----------|----------|--------------|--|--|
| 01:30      | 03:00    | 1.50     | 27.00        | Rig Repair                             | RIG REPAIR CONTINUE TO REPAIR KELLY SPINNER DIES AND RUN IN TO BTM |
| 00:00      | 01:30    | 1.50     | 25.50        | Rig Repair                             | RIG REPAIR CONTINUE TO REPAIR KELLY SPINNER DIES AND RUN IN TO BTM |
| 08:30      | 14:00    | 5.50     | 38.00        | Drill                                  | DRILL 311MM HOLE 99M- 156M   |
| 03:00      | 08:30    | 5.50     | 32.50        | Drill                                  | DRILL 311MM HOLE 99M- 156M   |
| 14:15      | 14:30    | 0.25     | 38.50        | Safety meeting                         | PRE TOUR SAFETY MEETING WITH CREWS                                 |
| 14:00      | 14:15    | 0.25     | 38.25        | Safety meeting                         | PRE TOUR SAFETY MEETING WITH CREWS                                 |
| 18:00      | 21:30    | 3.50     | 45.50        | Drill                                  | DRILL 311MM HOLE FR/156M TO 223M                                   |
| 14:30      | 18:00    | 3.50     | 42.00        | Drill                                  | DRILL 311MM HOLE FR/156M TO 223M                                   |
| 22:30      | 23:30    | 1.00     | 47.50        | Wireline Surveys - Single shot surveys | ACCUM CONNECTIONS & WIRELINE SURVEYS                               |
| 21:30      | 22:30    | 1.00     | 46.50        | Wireline Surveys - Single shot surveys | ACCUM CONNECTIONS & WIRELINE SURVEYS                               |
| 23:45      | 00:00    | 0.25     | 48.00        | Rig Service                            | RIG SERVICE GREASE WASH PIPE BLOCKS & DRIVER LINE                  |
| 23:30      | 23:45    | 0.25     | 47.75        | Rig Service                            | RIG SERVICE GREASE WASH PIPE BLOCKS & DRIVER LINE                  |

#### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 2,544.24            | 11,421.68                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
|                               | 1.77                       | 1130.0                    | 42                         | 8.0                   |                     |                          |

#### MUD ADDITIVES

| Des              | Field Est (Cost/unit) | Consumed |
|------------------|-----------------------|----------|
| DEFOAMER         | 210.34                | 2.0      |
| DEFOAMER         | 210.34                | 2.0      |
| DETERGENT        | 61.30                 | 3.0      |
| DETERGENT        |                       | 2.0      |
| HYPERDRILL 247RD |                       | 2.0      |
| HYPERDRILL 247RD | 227.45                | 2.0      |
| INHIBIDRILL      | 133.01                | 8.0      |
| INHIBIDRILL      |                       | 13.0     |
| KELZAN XCD       |                       | 2.0      |

#### MUD PUMPS

|                |                   |                  |                           |
|----------------|-------------------|------------------|---------------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |                           |
| 1              |                   |                  |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |                           |
| 1              |                   | 127.0            | 800.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |





# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/21/2011  
 Report #: 5.0  
 Depth Progress: 196.00

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 59,071  
 Cum Cost to Date: 894,323

DFS: 1.44days

### BIT SUMMARY

|              |                         |                           |                             |                             |                         |  |
|--------------|-------------------------|---------------------------|-----------------------------|-----------------------------|-------------------------|--|
| Bit Run<br>1 | Bit Type<br>Bit         | Size (mm)<br>311.2        | Make<br>KINGDREAM           | Model<br>HT03GLC            | Serial Number<br>L29145 | IADC Codes<br>417                      |
| Nozzles (mm) | Depth In (mKB)<br>23.77 | Depth Out (mKB)<br>361.00 | Depth Drilled (m)<br>339.00 | Drilling Time (hr)<br>28.00 | BHA ROP (m/hr)<br>12.1  | IADC Bit Dull<br>2-2-WT-A-E-0.00-NO-TD |

### DRILL STRING COMPONENTS

| Item Des            | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|---------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Stands |         |         | 5   | 94.74   | 369.67      |
| X/O                 | 76.0    | 295.0   | 1   | 0.67    | 274.93      |
| HWDP(4.0 IN)        | 64.0    | 102.0   | 9   | 84.41   | 274.26      |
| DC (8.00 IN)        | 76.0    | 198.0   | 1   | 9.17    | 189.85      |
| DC (5.00 IN)        | 60.0    | 126.0   | 9   | 86.41   | 180.68      |
| DC (8.00 IN)        | 76.0    | 195.0   | 1   | 9.39    | 94.27       |
| JARS-HYD/MECH       | 59.0    | 125.0   | 1   | 5.32    | 84.88       |
| BIT SUB             | 74.0    | 202.0   | 1   | 0.82    | 79.56       |
| DC (5.00 IN)        | 60.0    | 126.0   | 5   | 47.96   | 78.74       |
| DC (5.00 IN)        | 60.0    | 128.0   | 1   | 9.58    | 30.78       |
| X/O                 | 62.0    | 158.0   | 1   | 0.81    | 21.20       |
| X/O                 | 76.0    | 295.0   | 1   | 0.67    | 20.39       |
| C (8.00 IN)         | 76.0    | 198.0   | 1   | 9.17    | 19.72       |
| C (8.00 IN)         | 76.0    | 195.0   | 1   | 9.39    | 10.55       |
| BIT SUB             | 74.0    | 202.0   | 1   | 0.82    | 1.16        |

### DRILLING SUMMARY

|                            |                           |                           |                               |                               |                    |                |
|----------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|--------------------|----------------|
| Start Depth (mKB)<br>27.00 | End Depth (mKB)<br>99.00  | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>5,500  | Drilling Torque               | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)<br>160           | Motor RPM (rpm)           | Bit RPM (rpm)             | 160                           | Slack-Off String Weight (daN) | Drilling Time (hr) | 9.00           |
| Start Depth (mKB)<br>99.00 | End Depth (mKB)<br>223.00 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>10,000 | Drilling Torque               | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)<br>165           | Motor RPM (rpm)           | Bit RPM (rpm)             | 165                           | Slack-Off String Weight (daN) | Drilling Time (hr) | 9.00           |

### SAFETY CHECKS

| Date      | Type           | Des                 |
|-----------|----------------|---------------------|
| 1/21/2011 | Safety Meeting | HWDP CONNECTION     |
| 1/21/2011 | Safety Meeting | HWDP CONNECTION     |
| 1/22/2011 | Safety Meeting | WORKING WITH CASING |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*30m) |
|-----------|----------|----------|---------|-----------|--------|--------|--------|------------|
| 1/21/2011 | 152.77   | 1.10     | 0.00    | 152.76    | 1.72   | 0.00   | -1.72  | 0.00       |
| 1/21/2011 | 179.00   | 1.10     | 0.00    | 178.98    | 2.22   | 0.00   | -2.22  | 0.00       |
| 1/21/2011 | 180.77   | 1.10     | 0.00    | 180.75    | 2.25   | 0.00   | -2.25  | 0.00       |
| 1/22/2011 | 245.00   | 1.10     | 0.00    | 244.97    | 3.49   | 0.00   | -3.49  | 0.00       |
| 1/22/2011 | 283.00   | 0.91     | 0.00    | 282.96    | 4.15   | 0.00   | -4.15  | 0.15       |

### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
|                |                    |                       |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 1/22/2011

Report #: 6.0

Depth Progress: 138.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 40,972

Cum Cost to Date: 935,295

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 2.44days                         |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

## Daily Operations

|                             |                           |                                   |                                |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>223.00 | End Depth (mKB)<br>361.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------|

|                                  |                         |                 |
|----------------------------------|-------------------------|-----------------|
| Weather<br>Clear, Cold and Windy | Temperature (°C)<br>-25 | Lease Condition |
|----------------------------------|-------------------------|-----------------|

Operation at 6am

Circulating and washing surface casing @ 88m

Operations Summary

Drilled 311mm hole from 223m to 252m, the hole drilled nicely, seepage losses were minimal, bit balling and a plugged nozzle port were evident prior to wiper tripping. Wiper tripped @ 252m strapping out of the hole. The hole was tight at 208m, worked through it with minimal overpull. Cleaned the balled bit and unplugged the nozzle ports, two of the three. Evidence of a forming mud rig evident on tool joints. Bridged off at 214m on the way in the hole, picked up the kelly several times on the way in, it took about an hour to wash through bridges. Drilled from 352m to 361m surface TD. Mixed Kelzan to increase yield point to a 12 with a 55vis prior to tripping out to run surface casing circulated for 1.5 hours Tripped out to the 203mm collars to run casing, max overpull 9daN on the trip out.

Operations Next Report Period

Complete running of 244.5mm casing and cement

Remarks

The 350m wiper trip was quite slow (7hours), green crews and frequent training sessions were contributing factors. Dumped 20 sawdust sacs and some TKPP to break up the mud ring and sticky cuttings, the hole unloaded for 45 minutes once on bottom.

BJ cementers on location @ 13:00hrs

|                            |                                      |  |                 |
|----------------------------|--------------------------------------|--|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                       | Max H2S (Units) |
| Head Count<br>25.0         | Personnel Total Hours (hr)<br>576.00 | Cum Personnel Total Hours (hr)<br>4,540.00 |                 |

## DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com   |
|------------|----------|----------|--------------|---------------------------|---|
| 00:00      | 07:00    | 7.00     | 7.00         | Drill                     | DRILL 311MM HOLE FR/ 223M TO 326M                           |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | PRE TOUR CREW MEETING WITH BOTH CREWS                       |
| 07:15      | 09:45    | 2.50     | 9.75         | Drill                     | DRILL 311MM HOLE FR/ 326M TO 352 M.                         |
| 09:45      | 11:45    | 2.00     | 11.75        | Deviation survey          | ACCUMULATING DEVIATION SURVEYS , CONNECTIONS, WORK PIPE     |
| 11:45      | 12:00    | 0.25     | 12.00        | Condition mud & circulate | CONDITION MUD & CIRCULATE                                   |
| 12:00      | 12:15    | 0.25     | 12.25        | Safety meeting            | SAFETY MEETING PRIOR TO TRIP                                |
| 12:15      | 12:45    | 0.50     | 12.75        | Condition mud & circulate | CONDITION MUD & CIRCULATE                                   |
| 12:45      | 16:30    | 3.75     | 16.50        | Trips                     | TRIPS POOH (STRAP OUT)                                      |
| 16:30      | 18:45    | 2.25     | 18.75        | Trips                     | CLEAN OFF BIT, RIH TIGHT SPOT @214M                         |
| 18:45      | 19:00    | 0.25     | 19.00        | Ream & Clean              | REAM & CLEAN TIGHT SPOT @214M 202m                          |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting            | HANDOVER SAFETY MEETING WITH CREWS                          |
| 19:15      | 21:00    | 1.75     | 21.00        | Trip in hole              | RUN IN HOLE FR/ 202M TO 300M WASH TO BOTOM FR/ 300M TO 350M |
| 21:00      | 21:15    | 0.25     | 21.25        | Drill                     | DRILL 311MM HOLE FR/ 352M TO 361M TD                        |
| 21:15      | 22:30    | 1.25     | 22.50        | Circulate And Condition   | CIRCULATE AND CONDITION HOLE & MUD FOR TRIP OUT /CASING     |
| 22:30      | 00:00    | 1.50     | 24.00        | Trip out of hole          | P.O.O.H. FOR CASING   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/22/2011  
 Report #: 6.0  
 Depth Progress: 138.00

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 40,972  
 Cum Cost to Date: 935,295

DFS: 2.44days

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 2,219.00            | 13,640.68                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    | 5.746                    |
| 361.00                        | 1140.0                     | 4,752                     | 8.0                        |                       |                     |                          |

### MUD ADDITIVES

| Des         | Field Est (Cost/unit) | Consumed |
|-------------|-----------------------|----------|
| DETERGENT   | 61.30                 | 3.0      |
| DETERGENT   | 61.30                 | 1.0      |
| INHIBIDRILL | 195.51                | 4.0      |
| INHIBIDRILL | 195.51                | 1.0      |
| SAWDUST     | 6.64                  | 35.0     |
| TKPP        | 152.77                | 3.0      |
| TKPP        | 152.77                | 2.0      |

### MUD PUMPS

|                |                   |                  |
|----------------|-------------------|------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| 1              |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
|                | 127.0             | 800.0            |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
|                |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |

### BIT SUMMARY

|              |                |                 |                   |                    |                |                       |
|--------------|----------------|-----------------|-------------------|--------------------|----------------|-----------------------|
| Bit Run      | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes            |
| 1            | Bit            | 311.2           | KINGDREAM         | HT03GLC            | L29145         | 417                   |
| Nozzles (mm) | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull         |
|              | 23.77          | 361.00          | 339.00            | 28.00              | 12.1           | 2-2-WT-A-E-0.00-NO-TD |

### DRILL STRING COMPONENTS

| Item Des            | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|---------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Stands |         |         | 5   | 94.74   | 369.67      |
| X/O                 | 76.0    | 295.0   | 1   | 0.67    | 274.93      |
| HWDP(4.0 IN)        | 64.0    | 102.0   | 9   | 84.41   | 274.26      |
| DC (8.00 IN)        | 76.0    | 198.0   | 1   | 9.17    | 189.85      |
| DC (5.00 IN)        | 60.0    | 126.0   | 9   | 86.41   | 180.68      |
| DC (8.00 IN)        | 76.0    | 195.0   | 1   | 9.39    | 94.27       |
| JARS-HYD/MECH       | 59.0    | 125.0   | 1   | 5.32    | 84.88       |
| BIT SUB             | 74.0    | 202.0   | 1   | 0.82    | 79.56       |
| DC (5.00 IN)        | 60.0    | 126.0   | 5   | 47.96   | 78.74       |
| DC (5.00 IN)        | 60.0    | 128.0   | 1   | 9.58    | 30.78       |
| X/O                 | 62.0    | 158.0   | 1   | 0.81    | 21.20       |
| X/O                 | 76.0    | 295.0   | 1   | 0.67    | 20.39       |
| DC (8.00 IN)        | 76.0    | 198.0   | 1   | 9.17    | 19.72       |
| DC (8.00 IN)        | 76.0    | 195.0   | 1   | 9.39    | 10.55       |
| IT SUB              | 74.0    | 202.0   | 1   | 0.82    | 1.16        |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/22/2011  
Report #: 6.0  
Depth Progress: 138.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 40,972  
Cum Cost to Date: 935,295

DFS: 2.44days

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 223.00            | 352.00          |                           | 11,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 155               |                 | 155                       |                               | 9.50               |                    |                |
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 352.00            | 361.00          |                           | 10,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 170               |                 | 170                       |                               | 0.25               |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des           |
|-----------|----------------|---------------|
| 1/22/2011 | Safety Meeting | TRIPPING      |
| 1/23/2011 | Safety Meeting | RUNING CASING |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
|                |                    |                       |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Business Unit: NE BC & NWT COU**

**Rig: 24 Nabors Drilling**

**Report For: 1/23/2011**

**Report #: 7.0**

**Depth Progress: 0.00**

**Total AFE Amount: 2,535,440**

**AFE Number: 10N110009**

**Daily Cost: 136,531**

**Cum Cost to Date: 1,071,826**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 3.44days                         |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                             |                           |                                   |                                |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>361.00 | End Depth (mKB)<br>361.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------|

|                   |                         |                 |
|-------------------|-------------------------|-----------------|
| Weather<br>Cloudy | Temperature (°C)<br>-23 | Lease Condition |
|-------------------|-------------------------|-----------------|

Operation at 6am

**Complete nipple up, pressure test bops**

Operations Summary

Laid down the 203mm drill collars and 311mm bit, rig ged up to run casing, held pre job safety meeting made floats and shoe, floats ok. Ran 27 joints of 244.5mm H-40 Range 3 casing set @ 360m, had to wash the casing in from 80m to 130m, this took considerable time. Once on bottom shortened the mud system and mixed desco and water to reduce YP and viscosity. Rigged up and tied in the BJ cement crew, cemented surface casing with 19t (16.20m3) Maxxcem G cement blend 1%CaCl2, .90% FL-5 Fluid loss control, dropped the top plug and displaced with 14.22m3 H2O bumped plug at 7.7mpa, good returns throughout the job, 1.5m3 cement returns. Pressure tested casing 1.5mpa (7.7mpa) over final pressure and held for 10min, tested high 12.5mpa for 10min, bled off tested floats held ok, annulus level static. The rig crew flushed the conductor and WOC for 6 hours. While WOC rigged out BJ, cleaned mud tanks, began mud stripping operations. Cut conductor, and rough cut casing, preheated the casing bowl to 270 deg, welded as per GE procedure, tested bowl @ 7000kpa for 10min

Operations Next Report Period

**Nipple up, pressure test, strip mud**

Remarks

**Casing, Cementing cost entered**

|                            |                            |  |                 |
|----------------------------|----------------------------|--|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units)                       | Max H2S (Units) |
| Head Count<br>25.0         |                            | Personnel Total Hours (hr)<br>576.00       |                 |
|                            |                            | Cum Personnel Total Hours (hr)<br>5,116.00 |                 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com   |
|------------|----------|----------|--------------|---------------------------|---|
| 00:00      | 01:15    | 1.25     | 1.25         | Lay down BHA              | LAY OUT 8'DC ALL X/O BIT ( BLOW OUT KELLY 3X )  |
| 01:15      | 02:45    | 1.50     | 2.75         | Rig up/down to run casing | CLEAN FLOOR & CAWALK RIG IN TONG HAND & TOOLS TO RUN CASING   |
| 02:45      | 03:00    | 0.25     | 3.00         | Pre-job safety            | PRE-JOB SAFETY WITH RIG CREW & TONG HAND  |
| 03:00      | 07:00    | 4.00     | 7.00         | Run casing & cementing    | RUN IN CASING CIRC HIGHT HOLE @ JOPINT #7 & 8   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | PRE TOUR SAFETY MEETING WITH RIG CREWS  |
| 07:15      | 08:15    | 1.00     | 8.25         | Run casing & cementing    | CASING HANGING UP IN HOLE, HEAD UP AND WASH JOINTS # 11 AND 12  |
| 08:15      | 11:30    | 3.25     | 11.50        | Run casing & cementing    | RUN CASING  |
| 11:30      | 12:00    | 0.50     | 12.00        | Condition mud & circulate | CONDITION MUD & CIRCULATE CASING  |
| 12:00      | 13:30    | 1.50     | 13.50        | Condition mud & circulate | CONDITION MUD & CIRCULATE CASING  |
| 13:30      | 13:45    | 0.25     | 13.75        | Safety meeting            | SAFETY MEETING WITH CEMENTERS AND CREW  |
| 13:45      | 14:00    | 0.25     | 14.00        | Rig up/down to run casing | RIG UP/ CEMENTERS   |
| 14:00      | 15:30    | 1.50     | 15.50        | Cementing                 | CEMENTING SURFACE CASING PLUG DOWN @15:30 HRS,CEMENTED WITH 19t (16.20M3)OF BJ'S MAXXCEM G CEMENT BLEND@1800KG/M3,1.00% CaCL2,.90%FL-5, DROPPED THE TOP PLUG AND DISLACED WITH 10.22M3 FRESH WATER, BUMPED THE PLUG @ 4.5MPA, 1.5M3 GOOD CEMENT RETURNS |
| 15:30      | 16:00    | 0.50     | 16.00        | Pressure test CSG/shoe    | PRESSURE TEST SURFACE CASING AT 7.7MPA LOW AND 12.5MPA HIGH, HELD ALL TESTS FOR 10MIN, BLEED BACK FLOATS HELD OK, ANNULUS LEVEL STAYED STATIC   |
| 6:00       | 19:00    | 3.00     | 19.00        | Wait on cement            | WAIT ON CEMENT, FLUSH CONDUCTOR, STRIP MUD BACK, PREPARE CELLER FOR NIPPLE UP   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/23/2011  
Report #: 7.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 136,531  
Cum Cost to Date: 1,071,826

DFS: 3.44days

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com   |
|------------|----------|----------|--------------|----------------|---|
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting | PRE TOUR SAFETY MEETING WITH RIG CREWS  |
| 19:15      | 21:45    | 2.50     | 21.75        | Wait on cement | CONT TO WAIT ON CEMENT ( PREPARE TOOLS STRIP MUD PREPARE B.O.P. & VALVES FOR NIPPLE UP )  |
| 00:00      | 02:15    | 2.25     | 26.25        | Other          | WELDING CSING BOWL ( SAFE WORK PERMIT # ND-037 ) CUT CONDUCTOR & CASING PRE HEAT BOWL TO 270 DEG WELD 3 PASSEIS ON BOTTOM & 2 PASSEIS ON TOP PRESSURE TEST TO 7000KPA FOR 10MIN |
| 21:45      | 00:00    | 2.25     | 24.00        | Other          | WELDING CSING BOWL ( SAFE WORK PERMIT # ND-037 ) CUT CONDUCTOR & CASING PRE HEAT BOWL TO 270 DEG WELD 3 PASSEIS ON BOTTOM & 2 PASSEIS ON TOP PRESSURE TEST TO 7000kpa FOR 10MIN |

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Overide (Pa)     |                          |

### MUD ADDITIVES

| Des        | Field Est (Cost/unit) | Consumed |
|------------|-----------------------|----------|
| DESCO      | 80.22                 | 2.0      |
| KELZAN XCD |                       | 1.0      |
| SAWDUST    | 6.64                  | 25.0     |
| TKPP       | 152.77                | 1.0      |

### MUD PUMPS

|                           |                   |                  |
|---------------------------|-------------------|------------------|
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW) |
| 127.0                     |                   | 800.0            |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des                             |
|-----------|----------------|---------------------------------|
| 1/23/2011 | Safety Meeting | NIPPLE UP B.O.P.                |
| 1/24/2011 | Safety Meeting | NIPPLE UP B.O.P. & RAM CHANGING |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Report For: 1/23/2011  
 Report #: 7.0  
 Depth Progress: 0.00

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 136,531  
 Cum Cost to Date: 1,071,826

DFS: 3.44days

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
|                |                    |                       |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Business Unit: NE BC & NWT COU**

**Rig: 24 Nabors Drilling**

**Report For: 1/24/2011**

**Report #: 8.0**

**Depth Progress: 0.00**

**Total AFE Amount: 2,535,440**

**AFE Number: 10N110009**

**Daily Cost: 84,534**

**Cum Cost to Date: 1,156,360**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 4.44days                         |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|                             |                           |                                   |                                |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>     |                           |                                   |                                |
| Start Depth (mKB)<br>361.00 | End Depth (mKB)<br>361.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-15 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Conducting pre-drill out Hazard Hunt

**Operations Summary**  
Installed the DSA and nipped up the bop's, changed pipe rams from 4 1/2" to 4", held a safety and pressure tested as detailed in the time log. We had issues with the HCR and had to change out the lower kelly cock. Accumulated function test went well, it seems to run just fine. Installed the Kelly spinner lines and the Kelly hose.  
H2S sensors were rigged in by Impact safety, the rig Geologist also rigged in his gas detector.

**Operations Next Report Period**  
Drill out 244.5mm casing and drill 222mm hole

**Remarks**  
No accidents, 5m3 of water based drilling mud was spilled out of a Vacuum truck on the ground by the shale cuttings bin. The spill was reported to the NWT spill line and to Paramount Resources

The bed truck from the service rig came over and assisted by raising the doghouse and eliminated several hazards caused by jacking the rig. Stripped mud all day, after the vacuum truck returned from getting repaired (was gone for 7 hours or so. Laforce Electric was out to repair the flocc injection pump breakers,

When the time came to make up the bha, we were unable to do so because the Rig crew could not locate the bit sub. A search was conducted with no results so a sub was hot shot, thankfully out of high level. Slip and cut drill line while we waited, used the time to clean and organize the rig.

INAC was on location performing their weekly visit, they inspected the spill site and were pleased with the clean up.

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                    |                                      |  |
|--------------------|--------------------------------------|--|
| Head Count<br>26.0 | Personnel Total Hours (hr)<br>624.00 | Cum Personnel Total Hours (hr)<br>5,740.00 |
|--------------------|--------------------------------------|--|

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                |   |
|------------------|----------|----------|--------------|----------------|---|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com   |
| 00:00            | 05:30    | 5.50     | 5.50         | Nipple up BOP  | NIPPLE UP BOP ( INSTALL DSAF B.O.P. CHANGE OUT RAMS TO 4" INSTALL HCR LINES KILL VALVES & FLOW T & LINE F/T TEST ACCUMALTOR ) |
| 05:30            | 05:45    | 0.25     | 5.75         | Pre-job safety | PRE-JOB SAFETY WITH PRESSURE TESTER & RIG CREW  |
| 05:45            | 07:00    | 1.25     | 7.00         | Test BOP       | PRESSURE TEST MANIFOLD VALVES & LINES 1500KPA LOW & 14000KPA HIGH TEST HELD FOR 10 MINS                                       |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting | HANDOVER SAFETY MEETING WITH RIG CREWS  |
| 07:15            | 09:00    | 1.75     | 9.00         | Nipple up BOP  | CONTINUE TO NIPPLE UP BOP,  |
| 09:00            | 09:30    | 0.50     | 9.50         | Change rams    | CHANGE PIPE RAMS  |
| 09:30            | 09:45    | 0.25     | 9.75         | Safety meeting | SAFETY MEETING WITH PRESURE TESTER AND RIG CREW   |
| 09:45            | 12:00    | 2.25     | 12.00        | Test BOP       | PRESURE TEST PIPE RAMS, CHOKE LINES, AND MANIFOLD VALVES 1500KPA LOW/14000KPA HIGH  |
| 12:00            | 14:15    | 2.25     | 14.25        | Test BOP       | PRESURE TEST ANNULAR, BLIND RAMS, HCR, STACK VALVES, KILL LINE VALVES, CASING.  |
| 14:15            | 14:45    | 0.50     | 14.75        | Level rig      | RAISE DOG HOUSE.  |
| 14:45            | 19:00    | 4.25     | 19.00        | Test BOP       | CONTINUE TO PRESURE TEST UPPER KELLY COCK AND LOWER KELLY COCK. (LOWER KELLY COCK FAILED) PRESURE TEST NEW LOWER KELLY COCK   |
| 19:00            | 19:15    | 0.25     | 19.25        | Safety meeting | SAFETY MEETING WITH BOTH CREWS  |
| 19:15            | 21:15    | 2.00     | 21.25        | Other          | HOOK UP KELLY HOSE, AND KELLY SPINNER HOSES ( PRE DRILL OUT SAFETY RIG INSPECTION CHECK LIST )                                |
| 1:15             | 00:00    | 2.75     | 24.00        | Waiting on     | WAITING ON BIT SUB ( SLIP & CUT 15.08M OF DRILL LINE CLEAN & ORGANIZE RIG )   |





# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/24/2011  
 Report #: 8.0  
 Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 84,534  
 Cum Cost to Date: 1,156,360

DFS: 4.44days

### MUD CHECKS

|  |   |  |                            |                       |                           |                          |
|--|---|--|----------------------------|-----------------------|---------------------------|--------------------------|
| Low Gravity Solids (%)                     | MBT (kg/m <sup>3</sup> )                | Oil Water Ratio                        | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m <sup>3</sup> ) | Potassium (mg/L)         |
| Electric Stab (V)                          | ECD - Manual Entry (kg/m <sup>3</sup> ) | Sand (%)                               | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa)       | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m <sup>3</sup> ) | Mud Lost to Hole (m <sup>3</sup> )      | Cum Mud Lost to Hole (m <sup>3</sup> ) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                           |                          |
| Depth (mKB)                                | Density (kg/m <sup>3</sup> )            | Funnel Viscosity (s/L)                 | pH                         | PV Override (cp)      | YP Override (Pa)          |                          |

### MUD ADDITIVES

| Des              | Field Est (Cost/Unit) | Consumed |
|------------------|-----------------------|----------|
| ALKAPAM 1103D    |                       | 1.0      |
| ENVIROFLOC       | 40.82                 | 7.0      |
| HYPERDRILL 247RD | 227.45                | 1.0      |

### MUD PUMPS

|                           |                   |                  |
|---------------------------|-------------------|------------------|
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) | 127.0             | 800.0            |
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                                 |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |

### SAFETY CHECKS

| Date      | Type           | Des           |
|-----------|----------------|---------------|
| 1/25/2011 | Safety Meeting | H2S BOP DRILL |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m <sup>3</sup> ) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|------------------------------|-----------------|
|          |         |         |                 |                              |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
|                |                    |                       |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 1/25/2011  
Report #: 9.0  
Depth Progress: 170.00**

**Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 38,823  
Cum Cost to Date: 1,195,183**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 5.44days                         |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                             |                           |                                   |                                |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>361.00 | End Depth (mKB)<br>531.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------|

|                          |                         |                 |
|--------------------------|-------------------------|-----------------|
| Weather<br>PARTLY CLOUDY | Temperature (°C)<br>-14 | Lease Condition |
|--------------------------|-------------------------|-----------------|

Operation at 6am  
Drilling 222mm hole in the Wabamun @ 600m

Operations Summary  
Waited on the bit sub until 02:20 hours, once it arrived we made up a 222mm MSF 513 reed pdc, the 127mm bha and tripped in the hole. Tagged cement @ 343m, changed out the lower kelly cock valve and installed the new one that was pressure tested on the catwalk. Drilled out the float 346m and shoe @ 360m. Drilled with flocc water from 361m to 531m. Hole cleaning well, no deviation issues.

Operations Next Report Period  
Drill ahead, monitoring seepage losses

Remarks  
No accidents or incidents

Held safety meetings conducted hazard hunts, and rig inspections and bop drills. We also held a safety meeting on H2S with the Impact safety hand.

An issue arose with Impact Safety Services as they are having trouble meeting our requirements.

NEB inspectors Rick Turner and Lori Croal conducted a rig and drilling location inspection. The inspection went well, they had some positive things to say and also had excellent input into some areas where we needed to improve. The rig crews worked to rectify minor issues as they arose.

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                    |                                      |  |
|--------------------|--------------------------------------|--|
| Lead Count<br>27.0 | Personnel Total Hours (hr)<br>648.00 | Cum Personnel Total Hours (hr)<br>6,388.00 |
|--------------------|--------------------------------------|--|

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2   | Com  |
|------------|----------|----------|--------------|--|--|
| 00:00      | 02:30    | 2.50     | 2.50         | Waiting on                                     | WAITING ON BIT SUB PREPAIR BHA CLEAN & ORGANIZE RIG  |
| 02:30      | 05:45    | 3.25     | 5.75         | Trip in hole                                   | RUN IN HOLE ( MAKE UP BIT & BIT SUB PICK UP TELEDRIFT & JARS ) TAG CEMENT @ 343.6M.  |
| 05:45      | 06:15    | 0.50     | 6.25         | Other  | CHANGED OUT LOWER KELLY VALVE  |
| 06:15      | 06:30    | 0.25     | 6.50         | Safety meeting                                 | H2S SAFETY MEETING WITH RIG CREW & H2S HAND  |
| 06:30      | 06:45    | 0.25     | 6.75         | Pre-job safety                                 | HAZARD HUNT WITH RIG CREW ( RIG MATTING BESIDE PUMP HOUSE - SAFETY LINE ON HCR LINE )  |
| 06:45      | 07:00    | 0.25     | 7.00         | Safety meeting                                 | HANDOVER SAFETY MEETING WITH CREWS   |
| 07:00      | 07:45    | 0.75     | 7.75         | Drills/BOP, etc.                               | H2S BOP DRILL, DISCUSSED PROCEDURES AND RESPONSIBILITIES WITH BOTH CREWS   |
| 07:45      | 12:00    | 4.25     | 12.00        | Drill cement/drill out cement/drill float&shoe | DRILL OUT FLOAT, CEMENT AND SHOE. TO 361 M.FLOAT @ 346 M.  |
| 12:00      | 15:00    | 3.00     | 15.00        | Drill  | DRILL 222MM HOLE FROM 361M- 411M   |
| 15:00      | 15:15    | 0.25     | 15.25        | Rig Service                                    | RIG SERVICE  |
| 15:15      | 16:30    | 1.25     | 16.50        | Drill  | DRILL 222MM HOLE FROM 411M- 430M   |
| 16:30      | 17:00    | 0.50     | 17.00        | Safety meeting                                 | RIG INSPECTION WAS COMPLETED BY THE NEB, INSPECTORS RICK TURNER AND LORI CROAL, SITE HAZARD REVIEW CONDUCTED AND GENERAL DISCUSSION AND Q&A SESSION HELD |
| 17:00      | 19:00    | 2.00     | 19.00        | Drill  | DRILL 222MM HOLE 440M- 462M  |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting                                 | HANDOVER SAFETY MEETING WITH RIG CREWS   |
| 19:15      | 23:00    | 3.75     | 23.00        | Drill  | DRILL 222MM HOLE FR/ 462M TO 531M  |
| 23:00      | 00:00    | 1.00     | 24.00        | Deviation survey                               | ACCUM TELDRIFT SURVEYS & CONNECTIONS   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/25/2011  
 Report #: 9.0  
 Depth Progress: 170.00

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 38,823  
 Cum Cost to Date: 1,195,183

DFS: 5.44days

### MUD CHECKS

|  |   |  |                            |                       |                           |                          |
|--|---|--|----------------------------|-----------------------|---------------------------|--------------------------|
| Low Gravity Solids (%)                     | MBT (kg/m <sup>3</sup> )                | Oil Water Ratio                        | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m <sup>3</sup> ) | Potassium (mg/L)         |
| Electric Stab (V)                          | ECD - Manual Entry (kg/m <sup>3</sup> ) | Sand (%)                               | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa)       | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m <sup>3</sup> ) | Mud Lost to Hole (m <sup>3</sup> )      | Cum Mud Lost to Hole (m <sup>3</sup> ) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 14,633.08                 |                          |
| Depth (mKB)                                | Density (kg/m <sup>3</sup> )            | Funnel Viscosity (s/L)                 | pH                         | PV Override (cp)      | YP Override (Pa)          |                          |
|  | 1060.0                                  | 38                                     | 9.5                        |                       |                           |                          |

### MUD ADDITIVES

| Des | Field Est (Cost/unit) | Consumed |
|-----|-----------------------|----------|
|     |                       |          |

### MUD PUMPS

|                |                   |                  |                           |
|----------------|-------------------|------------------|---------------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |                           |
| 1              |                   |                  |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |                           |
| 1              |                   | 127.0            | 800.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |

### BIT SUMMARY

|                                    |                |                 |                   |                    |                |                       |
|------------------------------------|----------------|-----------------|-------------------|--------------------|----------------|-----------------------|
| Bit Run                            | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes            |
| 2                                  | Bit            | 222.0           | REED              | MSF 513 M - A 3 D  | 128437         | M332                  |
| Nozzles (mm)                       | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull         |
| 10.3/10.3/10.3/10.3/10.3/10.3/10.3 | 361.00         | 1,114.00        | 753.00            | 73.25              | 10.3           | 3-4-CT-S-X-1.00-BT-PR |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.36    | 1,103.92    |
| Drill pipe - Stands  |         |         | 45  | 857.24  | 1,094.56    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 9   | 84.41   | 237.32      |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 152.91      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 104.89      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 99.57       |
| TELEDRIFT            | 59.0    | 125.0   | 1   | 2.60    | 13.22       |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 10.62       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.04        |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                                 |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| 361.00            | 531.00          |                           | 4,000                         |                    |                                 |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |
| 100               |                 | 100                       |                               | 10.00              |                                 |                |

### SAFETY CHECKS

| Date      | Type           | Des                     |
|-----------|----------------|-------------------------|
| 1/25/2011 | Safety Meeting | H2S BOP DRILL WITH CREW |
| 1/26/2011 | Safety Meeting | CONNECTIONS             |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m <sup>3</sup> ) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|------------------------------|-----------------|
|          |         |         |                 |                              |                 |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 1/25/2011  
 Report #: 9.0  
 Depth Progress: 170.00

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 38,823  
 Cum Cost to Date: 1,195,183

DFS: 5.44days

#### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 1/25/2011 | 495.00   | 1.50     | 0.00    | 494.94    | 7.10   | 0.00   | -7.10  | 0.41        |
| 1/26/2011 | 544.00   | 1.00     | 0.00    | 543.93    | 8.17   | 0.00   | -8.17  | 0.31        |
| 1/26/2011 | 591.00   | 2.00     | 0.00    | 590.91    | 9.40   | 0.00   | -9.40  | 0.64        |
| 1/26/2011 | 597.00   | 2.00     | 0.00    | 596.91    | 9.61   | 0.00   | -9.61  | 0.00        |
| 1/26/2011 | 616.00   | 2.00     | 0.00    | 615.90    | 10.28  | 0.00   | -10.27 | 0.00        |

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
| Wabamun Grp    | 470.00             | 469.95                |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 1/26/2011  
Report #: 10.0  
Depth Progress: 253.00**

**Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 69,633  
Cum Cost to Date: 1,264,816**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 6.44days                         |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                             |                           |                                   |                                |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>531.00 | End Depth (mKB)<br>784.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------|

|                  |                        |                 |
|------------------|------------------------|-----------------|
| Weather<br>CLEAR | Temperature (°C)<br>-9 | Lease Condition |
|------------------|------------------------|-----------------|

Operation at 6am  
Circulating prior to wiper tripping in the Twin Falls at 860m

Operations Summary  
Drill 222mm hole from 531m to 784m, losses through the Wabamun totaled 70m3 of floc water. Hole deviation was not an issue, we ended up fanning for a 70m stretch to maintain a 2 deg inclination other than that the section drilled nicely.

Operations Next Report Period  
Wiper trip back to the shoe, drill ahead to KOP

Remarks  
NEB Inspectors were on location again today to follow up on some minor deficiencies, they also attended and participated pre-tour crew change meeting.

Two loads of cuttings were hauled to CCS Rainbow Lake, Directional tools and drillers arrived on location

One of our H2S rig rat sensors is not operational, we had several false alarms from a damaged unit, so we had to take it out of service. Impact Safety is supposed to send out another sensor or two.

Trojan Safety has been mobilized and will be on location to take over Safety services later today.

|                            |                                      |  |                 |
|----------------------------|--------------------------------------|--|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                       | Max H2S (Units) |
| Lead Count<br>27.0         | Personnel Total Hours (hr)<br>648.00 | Cum Personnel Total Hours (hr)<br>7,036.00 |                 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2           | Com   |
|------------|----------|----------|--------------|------------------|---|
| 00:00      | 00:45    | 0.75     | 0.75         | Drill            | DRILL 222MM HOLE FR/ 531M TO 543M   |
| 00:45      | 01:00    | 0.25     | 1.00         | Rig Service      | RIG SERVICE GREASE WASH PIPE BLOCKS DRAWWORKS DRIVE LINE CHECK OIL LEVEL IN GEAR BOX & FLOOR MOTOR F/T ANNULAR 29 SEC TO CLOSE F/T STABBING VALVE C/O |
| 01:00      | 07:00    | 6.00     | 7.00         | Drill            | DRILL 222MM HOLE FR/ 543M TO 602M   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting   | SAFETY MEETING WITH BOTH CREWS  |
| 07:15      | 10:45    | 3.50     | 10.75        | Drill            | DRILL 222MM HOLE FROM 602M- 638M  |
| 10:45      | 12:00    | 1.25     | 12.00        | Deviation survey | ACCUMULATIVE DEVIATION SURVEY, CONNECTIONS WORK PIPE  |
| 12:00      | 15:45    | 3.75     | 15.75        | Drill            | DRILL 222MM HOLE 638M-669M  |
| 15:45      | 16:00    | 0.25     | 16.00        | Rig Service      | RIG SERVICE   |
| 16:00      | 19:00    | 3.00     | 19.00        | Drill            | DRILL 222MM HOLE 669M- 705M   |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting   | HANDOVER SAFETY MEETING WITH RIG CREWS  |
| 19:15      | 23:15    | 4.00     | 23.25        | Drill            | DRILL 222MM HOLE FR/ 705M TO 784M   |
| 23:15      | 00:00    | 0.75     | 24.00        | Deviation survey | ACCUM TELEDRIFT SURVEYS & CONNECTIONS   |

### MUD CHECKS

|                               |                            |                           |                            |                       |                    |                         |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|--------------------|-------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)       | Potassium (mg/L)        |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HHP Pressure (kPa) | HHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                    |                         |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)   |                         |
|                               | 1010.0                     | 34                        |                            | 8.0                   |                    |                         |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/26/2011  
Report #: 10.0  
Depth Progress: 253.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 69,633  
Cum Cost to Date: 1,264,816

DFS: 6.44days

### MUD ADDITIVES

| Des                | Field Est (Cost/unit) | Consumed |
|--------------------|-----------------------|----------|
| DEFOAMER           | 210.34                | 2.0      |
| DETERGENT          | 61.30                 | 2.0      |
| DETERGENT          | 61.30                 | 2.0      |
| ENVIROFLOC         | 40.82                 | 10.0     |
| ENVIROFLOC         | 40.82                 | 10.0     |
| HYPERDRILL 247RD   | 227.45                | 1.0      |
| HYPERDRILL 247RD   | 227.45                | 1.0      |
| HYPERDRILL 247RD   | 227.45                | 1.0      |
| KWIKSEAL           | 33.90                 | 2.0      |
| SAWDUST            | 6.64                  | 40.0     |
| SODIUM BICARBONATE | 29.59                 | 4.0      |
| TKPP               | 152.77                | 2.0      |
| ULTRAFLOC          | 133.01                | 2.0      |

### MUD PUMPS

| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|----------------|-------------------|---------------------------|
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| 2              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| 3              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |

### BIT SUMMARY

| Bit Run                                | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes            |
|--|----------------|-----------------|-------------------|--------------------|----------------|-----------------------|
| 2                                      | Bit            | 222.0           | REED              | MSF 513 M - A 3 D  | 128437         | M332                  |
| Nozzles (mm)                           | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull         |
| 10.3/10.3/10.3/10.3/10.3/0.3/10.3/10.3 | 361.00         | 1,114.00        | 753.00            | 73.25              | 10.3           | 3-4-CT-S-X-1.00-BT-PR |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.36    | 1,103.92    |
| Drill pipe - Stands  |         |         | 45  | 857.24  | 1,094.56    |
| HWD(4.0 IN)          | 64.0    | 102.0   | 9   | 84.41   | 237.32      |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 152.91      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 104.89      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 99.57       |
| TELEDRIFT            | 59.0    | 125.0   | 1   | 2.60    | 13.22       |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 10.62       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.04        |

### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| 531.00            | 638.00          |                           | 4,500                         |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 120               |                 | 120                       |                               | 10.25              |                    |                |
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 638.00            | 784.00          |                           | 8,000                         |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 140               |                 | 140                       |                               | 10.75              |                    |                |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/26/2011  
Report #: 10.0  
Depth Progress: 253.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 69,633  
Cum Cost to Date: 1,264,816

DFS: 6.44days

#### SAFETY CHECKS

| Date      | Type           | Des                          |
|-----------|----------------|------------------------------|
| 1/26/2011 | Safety Meeting | SCBA PACK TRAINING WITH CREW |
| 1/27/2011 | Safety Meeting | SERVICEING EQUIPMENT         |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 1/26/2011 | 635.00   | 1.50     | 0.00    | 634.89    | 10.86  | 0.00   | -10.85 | 0.79        |
| 1/26/2011 | 702.00   | 2.00     | 0.00    | 701.86    | 12.90  | 0.00   | -12.90 | 0.22        |
| 1/26/2011 | 754.00   | 0.50     | 0.00    | 753.84    | 14.04  | 0.00   | -14.04 | 0.87        |
| 1/27/2011 | 801.00   | 0.50     | 0.00    | 800.84    | 14.45  | 0.00   | -14.45 | 0.00        |
| 1/27/2011 | 849.00   | 1.00     | 0.00    | 848.84    | 15.07  | 0.00   | -15.07 | 0.31        |

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
| Wabamun Grp    | 470.00             | 469.95                |
| Ft Simpson     | 719.00             | 718.85                |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Business Unit: NE BC & NWT COU**

**Rig: 24 Nabors Drilling**

**Report For: 1/27/2011**

**Report #: 11.0**

**Depth Progress: 199.00**

**Total AFE Amount: 2,535,440**

**AFE Number: 10N110009**

**Daily Cost: 69,063**

**Cum Cost to Date: 1,333,879**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 7.44days                         |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                             |                           |                                   |                                |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>784.00 | End Depth (mKB)<br>983.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
| Weather<br>Wind 25k         |                           | Temperature (°C)<br>-23           | Lease Condition                |

Operation at 6am

Drilling in the Twin Falls @ 1022m & Jacking the rig

Operations Summary

Drilled 222mm hole from 784m to 860m. Wiper tripped 500m back to the shoe, the hole was in good shape no issues, the hole took more fluid than required but very little. Drilled from 860m to 983m in the Twin Falls, hole deviation not a problem.

Operations Next Report Period

Drill ahead to kop, ending floc additions @ 1100m

Remarks

4 loads of cuttings hauled to CCS Rainbow Lake

One of the Rowe's trailers broke down on its first load and could not dump its load at CCS so two additional trucks were called out to alleviate pressure from mounting cuttings in storage bins.

Impact safety failed to deliver the mandatory equipment requested yesterday.

Trojan safety will be on location today to take over the lead safety role for the project.

BJ services will have a Mechanic on location today to repair and make some adjustments on the skid pumper unit. Called out a camp mechanic to repair a sleeper furnace, toilet and repair an electrical problem in the camp. Oil changed in Camp light plant and light towers. Called out Ardy's rig jackers as the mud tanks and sub structure need to be jacked and leveled. The rigs jacking are only good for a nine inch lift and we need an additional 4 to 5 inches of height. Reed hand delivered tri-cones for build section

IEB inspectors performed inspections at the plant, construction and completions camps. They departed the Cameron Hills yesterday.

Entered costs for Wellsite and Safety shack rig ups, cost included a lift of 3x12" planks

|                            |                            |                                      |  |
|----------------------------|----------------------------|--------------------------------------|--|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units)                 | Max H2S (Units)                            |
| Head Count<br>28.0         |                            | Personnel Total Hours (hr)<br>672.00 | Cum Personnel Total Hours (hr)<br>7,708.00 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                  | Com  |
|------------|----------|----------|--------------|-------------------------|--|
| 00:00      | 02:00    | 2.00     | 2.00         | Drill                   | DRILL 222MM HOLE FR/ 784M TO 811M  |
| 02:00      | 02:15    | 0.25     | 2.25         | Rig Service             | RIG SERVICE GREASE WASH PIPE BLOCKS CHECK OIL LEVEL IN FLOOR MOTOR & GEAR BOX F/T ANNULAR 30 SEC TO CLOSE F/T STABBING VALVE C/O |
| 02:15      | 06:00    | 3.75     | 6.00         | Drill                   | DRILL 222MM HOLE FR/ 811M TO 860M  |
| 06:00      | 06:30    | 0.50     | 6.50         | Circulate And Condition | CIRC HOLE CLEAN WORK STRING  |
| 06:30      | 07:00    | 0.50     | 7.00         | Trip out of hole        | TRIP OUT OF HOLE FR/ 860M TO 751M FLOW CHECK @ 859M FLOW CHECK @ 5% 751M   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting          | HANDOVER SAFETY MEETING WITH RIG CREWS   |
| 07:15      | 08:45    | 1.50     | 8.75         | Trip out of hole        | WIPER TRIP TO THE SHOE, HOLE WAS IN GOOD SHAPE   |
| 08:45      | 10:45    | 2.00     | 10.75        | Trip in hole            | TRIP IN HOLE FROM 350M-846M  |
| 10:45      | 11:00    | 0.25     | 11.00        | Ream & Clean            | REAM & CLEAN 846M-860M   |
| 11:00      | 12:00    | 1.00     | 12.00        | Drill                   | DRILL 860M- 870M   |
| 12:00      | 16:45    | 4.75     | 16.75        | Drill                   | DRILL 222MM HOLE 870M-926M   |
| 16:45      | 17:00    | 0.25     | 17.00        | Rig Service             | RIG SERVICE GREASED CROWN, DRIVE LINE, BREAK LINKAGES AND WASH PIPE  |
| 17:00      | 19:00    | 2.00     | 19.00        | Drill                   | DRILL 2122MM HOLE 926M- 936M   |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting          | RIG CREWS HANDOVER SAFETY MEETING  |





# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/27/2011  
Report #: 11.0  
Depth Progress: 199.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 69,063  
Cum Cost to Date: 1,333,879

DFS: 7.44days

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2           | Com                                     |
|------------|----------|----------|--------------|------------------|---|
| 19:15      | 23:00    | 3.75     | 23.00        | Drill            | DRILL 222MM HOLE FR/ 936M TO 983M       |
| 23:00      | 23:15    | 0.25     | 23.25        | Rig Service      | RIG SERVICE WORK ON PASON FLOW & TORQUE |
| 23:15      | 00:00    | 0.75     | 24.00        | Deviation survey | ACCUM TELEDRIFT SURVEYS AND CONNECTIONS |

## MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 793.76              | 18,614.79                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
|                               | 1060.0                     | 37                        |                            | 7.5                   |                     |                          |

## MUD ADDITIVES

| Des              | Field Est (Cost/unit) | Consumed |
|------------------|-----------------------|----------|
| ENVIROFLOC       | 40.82                 | 7.0      |
| HYPERDRILL 247RD | 227.45                | 1.0      |
| HYPERDRILL 247RD | 227.45                | 1.0      |
| SAWDUST          | 6.64                  | 8.0      |

## MUD PUMPS

|                |                   |                  |
|----------------|-------------------|------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
| 1              |                   | 127.0            |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |

## BIT SUMMARY

|                               |                |                 |                   |                    |                |                       |
|-------------------------------|----------------|-----------------|-------------------|--------------------|----------------|-----------------------|
| Bit Run                       | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes            |
| 2                             | Bit            | 222.0           | REED              | MSF 513 M - A 3 D  | 128437         | M332                  |
| Nozzles (mm)                  | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull         |
| 10.3/10.3/10.3/10.3/10.3/10.3 | 361.00         | 1,114.00        | 753.00            | 73.25              | 10.3           | 3-4-CT-S-X-1.00-BT-PR |

## DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.36    | 1,103.92    |
| Drill pipe - Stands  |         |         | 45  | 857.24  | 1,094.56    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 9   | 84.41   | 237.32      |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 152.91      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 104.89      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 99.57       |
| TELEDRIFT            | 59.0    | 125.0   | 1   | 2.60    | 13.22       |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 10.62       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.04        |

## DRILLING SUMMARY

|                   |                 |                               |                     |                 |                    |                |
|-------------------|-----------------|-------------------------------|---------------------|-----------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m)     | Weight on Bit (daN) | Drilling Torque | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 784.00            | 870.00          |                               | 8,000               |                 |                    |                |
| Motor RPM (rpm)   | Bit RPM (rpm)   | Slack-Off String Weight (daN) | Drilling Time (hr)  |                 |                    |                |
| 120               | 120             |                               | 6.75                |                 |                    |                |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/27/2011  
Report #: 11.0  
Depth Progress: 199.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 69,063  
Cum Cost to Date: 1,333,879

DFS: 7.44days

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                                 |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| 870.00            | 983.00          |                           | 9,000                         |                    |                                 |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |
| 110               |                 | 110                       |                               | 10.50              |                                 |                |

### SAFETY CHECKS

| Date      | Type           | Des                |
|-----------|----------------|--------------------|
| 1/27/2011 | Safety Meeting | ROTARY DANGER ZONE |
| 1/28/2011 | Safety Meeting | JACKING RIG        |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m <sup>3</sup> ) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|------------------------------|-----------------|
|          |         |         |                 |                              |                 |

### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 1/27/2011 | 856.00   | 0.50     | 0.00    | 855.84    | 15.17  | 0.00   | -15.17 | 2.14        |
| 1/27/2011 | 945.00   | 0.50     | 0.00    | 944.83    | 15.94  | 0.00   | -15.94 | 0.00        |
| 1/28/2011 | 980.00   | 1.00     | 0.00    | 979.83    | 16.40  | 0.00   | -16.40 | 0.43        |

### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
| Vabamun Grp    | 470.00             | 469.95                |
| Ft Simpson     | 719.00             | 718.85                |
| Twin Falls     | 830.00             | 829.84                |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Business Unit: NE BC & NWT COU**

**Rig: 24 Nabors Drilling**

**Report For: 1/28/2011**  
**Report #: 12.0**  
**Depth Progress: 124.00**

**Total AFE Amount: 2,535,440**  
**AFE Number: 10N110009**  
**Daily Cost: 80,508**  
**Cum Cost to Date: 1,414,387**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 8.44days                         |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                             |                             |                                   |                                |
|-----------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>983.00 | End Depth (mKB)<br>1,107.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-----------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-24 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
**Tripping out of the hole @ 1114m**

**Operations Summary**  
 Drilled 222mm hole from 983m to 1000m then ceased drilling to Jack the sub with Ardy's Rigging off drillers side raised to 12" and 11" on the drillers side. We also jacked the mud tanks to allow flow line alignment, had to pump all fluid onto storage 400bbbls (The sub was jacked so high that the flowline was resting on the bottom of the flowline hole of the sub wall. Drilled from 1000m to 1022m and stopped to jack the rig again. Resumed drilling at 1022m and drilled to 1107m.

**Operations Next Report Period**  
 Have a look at the bit, trip back in Skid and level rig, pressure test choke line, resume drilling at 1114m

**Remarks**  
 After a lengthy discussion with the Rig Jackers and Rig Crew we came to the conclusion that the rig has to be skidded. Flint Tansco and Rowes construction will provide the equipment necessary to perform the job. A job plan and hazard assessment were conducted with Brad Scott and reviewed with the NEB.

Drilling was up and down, hard sand stringers throughout the middle of the Twin Falls formation  
 Impact Safety Services were relieved of their duties in all aspects of the Cameron Hills Winter program. Trojan Safety is now running all H2S related supervision and equipment. The Rig Rat system is operation in the camp/pant area. Sensors located at HSE/Security Office, Drilling Camp, Construction Camp and Completion Camp.

One load of dry mud product was delivered

|                            |                            |                                      |  |
|----------------------------|----------------------------|--------------------------------------|--|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units)                 | Max H2S (Units)                            |
| Head Count<br>28.0         |                            | Personnel Total Hours (hr)<br>672.00 | Cum Personnel Total Hours (hr)<br>8,380.00 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2           | Com   |
|------------|----------|----------|--------------|------------------|---|
| 00:00      | 02:00    | 2.00     | 2.00         | Drill            | DRILL 222MM HOLE FR/ 983M TO 1000M  |
| 02:00      | 02:15    | 0.25     | 2.25         | Pre-job safety   | PRE-JOB SAFETY MEETING WITH ARDY RIGGING LTD. & RIG CREW ON JACKING RIG                     |
| 02:15      | 03:15    | 1.00     | 3.25         | Level rig        | JACK SUB WITH RIG JACKRS  |
| 03:15      | 06:15    | 3.00     | 6.25         | Drill            | DRILL 222MM HOLE FR/ 1000M TO 1022M   |
| 06:15      | 07:00    | 0.75     | 7.00         | Level rig        | JACK SUB WITH RIG JACKRS  |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting   | HANDOVER SAFETY MEETING WITH RIG CREWS  |
| 07:15      | 12:00    | 4.75     | 12.00        | Drill            | DRILL 222MM HOLE FR. 1022M- 1040M   |
| 12:00      | 16:45    | 4.75     | 16.75        | Drill            | DRILL 222MM HOLE FROM 1040M- 1060m  |
| 16:45      | 17:00    | 0.25     | 17.00        | Rig Service      | RIG SERVICE CHECK OILS, GREASE BLOCKS, WASH PIPE, SWIVEL, DRAW WORKS, BREAK LINKAGES, TABLE |
| 17:00      | 19:00    | 2.00     | 19.00        | Drill            | DRILL 222MM HOLE FR 1060M- 1069M  |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting   | PRE TOUR HANDOVER SAFETY MEETING WITH RIG CREWS   |
| 19:15      | 23:30    | 4.25     | 23.50        | Drill            | DRILL 222MM HOLE FR/ 1069M TO 1107M   |
| 23:30      | 00:00    | 0.50     | 24.00        | Deviation survey | ACCUM TELEDRIFT SURVEYS & CONNECTIONS   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/28/2011  
Report #: 12.0  
Depth Progress: 124.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 80,508  
Cum Cost to Date: 1,414,387

DFS: 8.44days

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 905.91              | 19,520.70                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
| 1,088.00                      | 1140.0                     | 42                        | 8.0                        |                       |                     |                          |

### MUD ADDITIVES

| Des              | Field Est (Cost/unit) | Consumed |
|------------------|-----------------------|----------|
| CAUSTIC          | 41.79                 | 1.0      |
| DETERGENT        | 61.30                 | 1.0      |
| ENVIROFLOC       | 40.82                 | 3.0      |
| GEL              | 13.05                 | 20.0     |
| HYPERDRILL 247RD | 227.45                | 1.0      |
| SODA ASH         | 19.57                 | 2.0      |
| TKPP             | 152.77                | 1.0      |

### MUD PUMPS

|                |                   |                  |
|----------------|-------------------|------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| 1              |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
|                |                   | 800.0            |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   | 127.0            |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
|                |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |

### BIT SUMMARY

|                                    |                |                 |                   |                    |                |                       |
|------------------------------------|----------------|-----------------|-------------------|--------------------|----------------|-----------------------|
| Bit Run                            | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes            |
| 2                                  | Bit            | 222.0           | REED              | MSF 513 M - A 3 D  | 128437         | M332                  |
| Nozzles (mm)                       | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull         |
| 10.3/10.3/10.3/10.3/10.3/10.3/10.3 | 361.00         | 1,114.00        | 753.00            | 73.25              | 10.3           | 3-4-CT-S-X-1.00-BT-PR |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.36    | 1,103.92    |
| Drill pipe - Stands  |         |         | 45  | 857.24  | 1,094.56    |
| HWD(4.0 IN)          | 64.0    | 102.0   | 9   | 84.41   | 237.32      |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 152.91      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 104.89      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 99.57       |
| TELEDRIIFT           | 59.0    | 125.0   | 1   | 2.60    | 13.22       |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 10.62       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.04        |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 983.00            | 1,040.00        |                           | 10,500                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 135               |                 | 135                       |                               | 11.00              |                    |                |
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 1,040.00          | 1,107.00        |                           | 10,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 100               |                 | 100                       |                               | 11.00              |                    |                |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/28/2011  
Report #: 12.0  
Depth Progress: 124.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 80,508  
Cum Cost to Date: 1,414,387

DFS: 8.44days

#### SAFETY CHECKS

| Date      | Type           | Des                |
|-----------|----------------|--------------------|
| 1/28/2011 | Safety Meeting | STEAM USE          |
| 1/29/2011 | Safety Meeting | FLOW CHECKING WELL |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|-----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 1/28/2011 | 1,036.00 | 0.50     | 0.00    | 1,035.82  | 17.13  | 0.00   | -17.13 | 0.27        |
| 1/28/2011 | 1,078.00 | 0.50     | 0.00    | 1,077.82  | 17.50  | 0.00   | -17.50 | 0.00        |

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
| Wabamun Grp    | 470.00             | 469.95                |
| Ft Simpson     | 719.00             | 718.85                |
| Twin Falls     | 830.00             | 829.84                |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 1/29/2011  
Report #: 13.0  
Depth Progress: 14.00**

**Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 95,621  
Cum Cost to Date: 1,510,008**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 9.44days                         |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,107.00 | End Depth (mKB)<br>1,121.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-28 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Drilling 222mm hole in the Twin Falls @ 1142m

**Operations Summary**  
Drilled from 1107m to 1114m, rop slowed to 1-2m/hr so we tripped for the bit. The Nov Reed MSF 513m drilled 753m in 58hrs and averaged 12.9m/hr on bottom rop. Made up a Reed 447, R15MP and tripped in the hole. Once on bottoms circulated 2 bottoms up and made preparation for Jacking and Skidding the rig. Held a pre-job safety meeting with Flint Transco, Supervisor, Bed Hands and Swampers, Ardy's Rig Jackers, Rows Cat Operator and Rig Crews. Reviewed JSA'S and hazard assessments. Stopped circulation at 15:30hrs and Jacked and Skidded the rig, resumed circulation and began to re-assemble the front end of the rig @ 18:00hrs. Pressure tested the choke line 1500 kpa low and 14,500 kpa high. Conducted a bop nipple up inspection and resumed drilling 222mm hole @ 1114m. Drilled from 1114m to 1121m

**Operations Next Report Period**  
Drill ahead to 1240m, trip for directional tools

**Remarks**  
One load of Sawdust delivered and one load of cuttings to CCS

Two bed trucks, One Truck Spervisor, D-6 Cat and the Ardy's were used to perform the skid/jack.  
Costs for all the above services and the cost for the bit entered.

|                            |                                      |  |                 |
|----------------------------|--------------------------------------|--|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                       | Max H2S (Units) |
| Head Count<br>28.0         | Personnel Total Hours (hr)<br>672.00 | Cum Personnel Total Hours (hr)<br>9,052.00 |                 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com   |
|------------|----------|----------|--------------|---------------------------|---|
| 00:00      | 03:00    | 3.00     | 3.00         | Drill                     | DRILL 222MM HOLE FR/ 1107M TO 1114m   |
| 03:00      | 03:45    | 0.75     | 3.75         | Circulate And Condition   | CIRCULATE BOTTOMS UP & WORK STRING  |
| 03:45      | 07:00    | 3.25     | 7.00         | Trip out of hole          | TRIP OUT OF HOLE FR/ 1114M TO 136M FLOW CHECK @ 1114M FLOW CHECK @ 5% 1009M PUMP PILL @ 1009M 50% FLOW CHECK @ 550M |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | PRE TOUR SAFETY MEETING WITH RIG CREWS  |
| 07:15      | 08:30    | 1.25     | 8.50         | Trip out of hole          | CONTINUE TRIP OUT OF HOLE FLOW CHECK @ 240 M. O.O.H   |
| 08:30      | 08:45    | 0.25     | 8.75         | Rig Service               | RIG SERVICE F/T BLIND RAMS , HCR VALVE  |
| 08:45      | 12:00    | 3.25     | 12.00        | Trip in hole              | MADE UP A REED 447 TRI-CONE AND TRIPPED IN HOLE . FILL PIPE @ 350M. FLOW CHECK @ 551 M.                             |
| 12:00      | 13:15    | 1.25     | 13.25        | Trip in hole              | CONTINUE TO TRIP IN HOLE  |
| 13:15      | 15:00    | 1.75     | 15.00        | Condition mud & circulate | CIRCULATE CLEAN HOLE  |
| 15:00      | 15:15    | 0.25     | 15.25        | Other                     | FLOW CHECK / PRE JOB SAFETY MEETING   |
| 15:15      | 19:00    | 3.75     | 19.00        | Other                     | PREPARE TO SKID RIG, SKID SAME, RELEVEL RIG ANID RIG UP FRONT END OF RIG.   |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting            | SAFETY MEETING WITH RIG CREWS   |
| 19:15      | 21:45    | 2.50     | 21.75        | Other                     | CONT TO RIG IN HCR LINE FLARE TANK LINE & ALL SAFETY LINES  |
| 21:45      | 22:00    | 0.25     | 22.00        | Pre-job safety            | PRE-JOB SAFETY MEETING WITH RIG CREW & PRESSURE TESTER  |
| 22:00      | 22:30    | 0.50     | 22.50        | Test BOP                  | PRESSURE TEST HCR LINE TO 1500KPA LOW & 14000KPA HIGH FOR 10MINs EACH ( RIG IN & OUT PRESSURE TESTER )              |
| 22:30      | 00:00    | 1.50     | 24.00        | Drill                     | DRILL 222MM HOLE FROM 1114M TO 1121M  |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/29/2011  
Report #: 13.0  
Depth Progress: 14.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 95,621  
Cum Cost to Date: 1,510,008

DFS: 9.44days

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 2,175.26            | 21,695.96                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
|                               | 1120.0                     | 43                        |                            | 8.5                   |                     |                          |

### MUD ADDITIVES

| Des          | Field Est (Cost/unit) | Consumed |
|--------------|-----------------------|----------|
| CAL CARB 325 | 9.80                  | 27.0     |
| CAUSTIC      | 41.79                 | 1.0      |
| CAUSTIC      | 41.79                 | 1.0      |
| GEL          | 13.05                 | 10.0     |
| GEL          | 13.05                 | 10.0     |
| KELZAN       | 498.75                | 1.0      |
| KELZAN       | 498.75                | 1.0      |
| LIGNITE      | 15.72                 | 2.0      |
| SAWDUST      | 6.64                  | 75.0     |
| SODA ASH     | 19.57                 | 2.0      |

### MUD PUMPS

|                           |                   |                  |
|---------------------------|-------------------|------------------|
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW) |
| 1                         | 127.0             | 800.0            |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |

### BIT SUMMARY

|                               |                |                 |                   |                    |                |                       |
|-------------------------------|----------------|-----------------|-------------------|--------------------|----------------|-----------------------|
| Bit Run                       | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes            |
| 2                             | Bit            | 222.0           | REED              | MSF 513 M - A 3 D  | 128437         | M332                  |
| Nozzles (mm)                  | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull         |
| 10.3/10.3/10.3/10.3/10.3/10.3 | 361.00         | 1,114.00        | 753.00            | 73.25              | 10.3           | 3-4-CT-S-X-1.00-BT-PR |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.36    | 1,103.92    |
| Drill pipe - Stands  |         |         | 45  | 857.24  | 1,094.56    |
| HWD(4.0 IN)          | 64.0    | 102.0   | 9   | 84.41   | 237.32      |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 152.91      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 104.89      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 99.57       |
| TELEDRIFT            | 59.0    | 125.0   | 1   | 2.60    | 13.22       |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 10.62       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.04        |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 1,107.00          | 1,114.00        |                           | 12,000                        |                    |                    |                |
| M (rpm)           | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 120               | 120             | 120                       |                               | 3.00               |                    |                |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/29/2011  
 Report #: 13.0  
 Depth Progress: 14.00

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 95,621  
 Cum Cost to Date: 1,510,008

DFS: 9.44days

#### BIT SUMMARY

|   |                            |                             |                             |                             |                         |   |
|---|----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------|---|
| Bit Run<br>3                                      | Bit Type<br>Bit            | Size (mm)<br>222.0          | Make<br>REED                | Model<br>R15AMP             | Serial Number<br>EM2856 | IADC Codes<br>447                           |
| Nozzles (mm)<br>14.3/14.3/14.3/14.3/1<br>4.3/14.3 | Depth In (mKB)<br>1,114.00 | Depth Out (mKB)<br>1,240.27 | Depth Drilled (m)<br>126.00 | Drilling Time (hr)<br>20.25 | BHA ROP (m/hr)<br>6.2   | IADC Bit Dull<br>1-1-NO-A-E-0.00-<br>WT-BHA |

#### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Stands  |         |         | 46  | 876.48  | 2,341.85    |
| Drill pipe - Singles |         |         | 1   | 9.60    | 1,465.37    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 9   | 84.41   | 1,455.77    |
| Drill pipe - Stands  |         |         | 52  | 981.40  | 1,371.36    |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 389.96      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 9   | 84.41   | 341.94      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 257.53      |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 252.21      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 204.19      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 117.84      |
| TELEDRIFT            | 59.0    | 125.0   | 1   | 2.60    | 112.52      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 109.92      |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 23.57       |
| TELEDRIFT            | 59.0    | 125.0   | 1   | 2.60    | 13.99       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.81        |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 11.39       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.04        |

#### DRILLING SUMMARY

|                               |                             |                           |                               |                            |                    |                |
|-------------------------------|-----------------------------|---------------------------|-------------------------------|----------------------------|--------------------|----------------|
| Start Depth (mKB)<br>1,114.00 | End Depth (mKB)<br>1,121.00 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>14,000 | Drilling Torque            | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)<br>100              | Motor RPM (rpm)             | Bit RPM (rpm)<br>100      | Slack-Off String Weight (daN) | Drilling Time (hr)<br>1.50 |                    |                |

#### SAFETY CHECKS

| Date      | Type           | Des                   |
|-----------|----------------|-----------------------|
| 1/29/2011 | Safety Meeting | GOOD COMMUNICATION    |
| 1/30/2011 | Safety Meeting | DRILL PIPE CONNECTION |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 1/30/2011 | 1,136.00 | 0.50     | 0.00    | 1,135.82  | 18.01  | 0.00   | -18.01 | 0.00        |

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
| Wabamun Grp    | 470.00             | 469.95                |
| Ft Simpson     | 719.00             | 718.85                |
| Twin Falls     | 830.00             | 829.84                |





## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 1/30/2011  
Report #: 14.0  
Depth Progress: 101.00**

**Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 72,373  
Cum Cost to Date: 1,582,381**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 10.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>1,121.00 | End Depth (mKB)<br>1,222.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
| Weather<br>Clear              | Temperature (°C)<br>-25     | Lease Condition                   |                                |

Operation at 6am  
Tripping out at KOP 1240m, laying down dp and dc's

Operations Summary  
Drilled from 1121m 1222m. We had some hole trouble due to high clay content in our mud, worked tight hole on 3 to 4 connections. We ended up pumping out a single and working through the problem areas. MBT was up at 143 kg/m3, increased water additions and mixed to get the mud into shape.

Operations Next Report Period  
Pick up directional tools and kick off the 222mm section.

Remarks  
The main panel on the rig generator keeps kicking repeatedly and blacking out the rig, has been a daily occurrence. We can't run the centrifuge at full capacity until the breaker is changed as it draws too many amps and contributes heavily to the black out problem. Brought the HSE light plant over to the rig to reduce loads on the rig generator until the breaker is replaced.

|                            |                                      |  |                 |
|----------------------------|--------------------------------------|--|-----------------|
| No accidents or Incidents  |                                      |  |                 |
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                       | Max H2S (Units) |
| Head Count<br>28.0         | Personnel Total Hours (hr)<br>672.00 | Cum Personnel Total Hours (hr)<br>9,724.00 |                 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                |  |
|------------------|----------|----------|--------------|----------------|--|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com  |
| 00:00            | 01:15    | 1.25     | 1.25         | Drill          | DRILL 222MM HOLE FR/ 1121M TO 1126M  |
| 01:15            | 01:45    | 0.50     | 1.75         | Rig Service    | RIG SERVICE GREASE WASH PIPE ROTARY TABLE DRIVE LINE CHECK OIL LEVEL IN FLOOR MOTOR GEAR BOX DRAWWORKS F/T ANNULAR 29 SEC TO CLOSE |
| 01:45            | 04:00    | 2.25     | 4.00         | Drill          | DRILL 222MM HOLE FR/ 1126M TO 1136M  |
| 04:00            | 04:45    | 0.75     | 4.75         | Ream & Clean   | WORK TIGHT HOLE LAY OUT 1 SINGLE WORK THROUEH TIGHT SPOT FR/ 1134M TO 1112M REAM & CLEAN   |
| 04:45            | 07:00    | 2.25     | 7.00         | Drill          | DRILL 222MM HOLE FR/ 1136M TO 1145M  |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting | SAFETY MEETING WITH CREWS  |
| 07:15            | 09:15    | 2.00     | 9.25         | Other          | WORK TIGHT SPOTS 1145M-1125M   |
| 09:15            | 11:15    | 2.00     | 11.25        | Drill          | DRILL 222MM HOLE FR/ 1145M-1154M   |
| 11:15            | 12:00    | 0.75     | 12.00        | Other          | WORK TIGHT SPOTS 1130M-1154M LAY OUT TWO SINGLES   |
| 12:00            | 12:30    | 0.50     | 12.50        | Other          | CONTINUE TO WORK THROUGH TIGHT SPOTS. 1130M-1154M  |
| 12:30            | 19:00    | 6.50     | 19.00        | Drill          | DRILL 222MM HOLE FR/1154M- 1190M   |
| 19:00            | 19:15    | 0.25     | 19.25        | Safety meeting | SAFETY MEETING W/ BOTH CREWS   |
| 19:15            | 23:45    | 4.50     | 23.75        | Drill          | DRILL 222MM HOLE FROM 1190M TO 1222M   |
| 23:45            | 00:00    | 0.25     | 24.00        | Rig Service    | RIG SERVICE GREASE WASHPIPE, ROTARY TABLE, DRIVELINE CHECK OIL IN FLOOR MOTOR AND GEAR BOX FUNCTION PIPE RAMS 3 SEC TO CLOSE       |

|                               |                            |                              |                   |  |                                   |                          |
|-------------------------------|----------------------------|------------------------------|-------------------|--|-----------------------------------|--------------------------|
| <b>MUD CHECKS</b>             |                            |                              |                   |  |                                   |                          |
| Low Gravity Solids (%)<br>0.2 | MBT (kg/m³)                | Oil Water Ratio              | Chlorides (mg/L)  | Calcium (mg/L)                         | Lime (kg/m³)                      | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)<br>0.7              | Solids (%)<br>8.5 | Temp Bottom Hole (°C)                  | HTHP Pressure (kPa)               | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)    |                   | Daily Mud Field Est (Cost)<br>3,051.69 | Cum Mud Field Est...<br>24,747.65 |                          |
| Depth (mKB)<br>1,190.00       | Density (kg/m³)<br>1140.0  | Funnel Viscosity (s/L)<br>50 | pH<br>8.5         | PV Override (cp)<br>14.0               | YP Override (Pa)<br>2.729         |                          |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 1/30/2011

Report #: 14.0

Depth Progress: 101.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 72,373

Cum Cost to Date: 1,582,381

DFS: 10.44days

### MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| CAUSTIC   | 41.79                 | 1.0      |
| DESCO     | 80.22                 | 2.0      |
| DETERGENT | 61.30                 | 1.0      |
| DRISPAC   | 198.45                | 2.0      |
| DRISPAC   | 198.45                | 7.0      |
| GEL       | 13.05                 | 3.0      |
| LIGNITE   | 15.72                 | 4.0      |
| LIGNITE   | 15.72                 | 4.0      |
| SODA ASH  | 19.57                 | 2.0      |
| ULTRAFLOC | 133.01                | 6.0      |

### MUD PUMPS

| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|----------------|-------------------|---------------------------|
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   | 800.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|                |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |

### BIT SUMMARY

| Bit Run                       | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes             |
|-------------------------------|----------------|-----------------|-------------------|--------------------|----------------|------------------------|
| 3                             | Bit            | 222.0           | REED              | R15AMP             | EM2856         | 447                    |
| Nozzles (mm)                  | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull          |
| 14.3/14.3/14.3/14.3/14.3/14.3 | 1,114.00       | 1,240.27        | 126.00            | 20.25              | 6.2            | 1-1-NO-A-E-0.00-WT-BHA |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Stands  |         |         | 46  | 876.48  | 2,341.85    |
| Drill pipe - Singles |         |         | 1   | 9.60    | 1,465.37    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 9   | 84.41   | 1,455.77    |
| Drill pipe - Stands  |         |         | 52  | 981.40  | 1,371.36    |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 389.96      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 9   | 84.41   | 341.94      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 257.53      |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 252.21      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 204.19      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 117.84      |
| TELEDRIFT            | 59.0    | 125.0   | 1   | 2.60    | 112.52      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 109.92      |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 23.57       |
| TELEDRIFT            | 59.0    | 125.0   | 1   | 2.60    | 13.99       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.81        |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 11.39       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.04        |

### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| 1,121.00          | 1,154.00        |                           | 14,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
|                   | 110             |                           |                               | 4.50               |                    |                |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/30/2011  
Report #: 14.0  
Depth Progress: 101.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 72,373  
Cum Cost to Date: 1,582,381

DFS: 10.44days

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 1,154.00          | 1,222.00        |                           | 14,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 105               |                 | 105                       |                               | 11.00              |                    |                |

#### SAFETY CHECKS

| Date      | Type           | Des        |
|-----------|----------------|------------|
| 1/30/2011 | Safety Meeting | TIGHT HOLE |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 1/30/2011 | 1,160.00 | 0.50     | 0.00    | 1,159.82  | 18.22  | 0.00   | -18.21 | 0.00        |
| 1/30/2011 | 1,209.88 | 0.50     | 0.00    | 1,209.70  | 18.65  | 0.00   | -18.65 | 0.00        |

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
| Wabamun Grp    | 470.00             | 469.95                |
| Ft Simpson     | 719.00             | 718.85                |
| win Falls      | 830.00             | 829.84                |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/31/2011  
Report #: 15.0  
Depth Progress: 18.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 52,254  
Cum Cost to Date: 1,634,635

|                                  |  |                                       |                   |                                      |
|----------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00   | DFS: 11.44days    |                                      |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

## Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,222.27 | End Depth (mKB)<br>1,240.27 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
| Weather<br>Clear              | Temperature (°C)<br>-15     | Lease Condition                   |                                |

Operation at 6am

Drilling the build in the Twin Falls @ 1250m

Operations Summary

Drilled from 1222m to 1240m. Circulated bottoms up then tripped out of the hole to pick up directional tools. Laid down the 42 singles of drill of drill pipe and all of the 127mm drill collars. Held a pre job safety meeting prior to make up directional tools. Made up a Reed R20 AMP 517 Insert bit, set a 2.38 bend in the motor and made up the remaining directional assembly. Made up 53 joints of 102mm HWDP and tripped in the hole. Pulse tested the MWD at the 399m and surveyed every 150m on the way in hole.

Operations Next Report Period

Drill the 222mm build

Remarks

Weather conditions hampered production yesterday, the wind was unforgiving.

Vacuum Truck hauled sewage from completions and the drilling. 7,000 liters of fuel delivered.

177.8mm casing ordered.

INAC was out to perform a site visit

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>28.0         | Personnel Total Hours (hr)<br>672.00 | Cum Personnel Total Hours (hr)<br>10,396.00 |                 |

## DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com   |
|------------|----------|----------|--------------|---------------------------|---|
| 00:00      | 03:15    | 3.25     | 3.25         | Drill                     | DRILL 222MM HOLE FROM 1222M TO 1240M                      |
| 03:15      | 04:00    | 0.75     | 4.00         | Condition mud & circulate | CIRCULATE HOLE CLEAN                                      |
| 04:00      | 07:00    | 3.00     | 7.00         | Trips                     | POOH TO PICK UP DIR TOOLS , LAY DWN 42 JOINTS DP AND DC'S |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING WITH BOTH CREWS                            |
| 07:15      | 09:45    | 2.50     | 9.75         | Trips                     | CONTINUE TO POOH. D.P.                                    |
| 09:45      | 12:00    | 2.25     | 12.00        | Trips                     | LAYDOWN 5" D.C.   |
| 12:00      | 12:15    | 0.25     | 12.25        | Rig Service               | RIG SERVICE F/T BLIND RAMS 4 SECS CL.                     |
| 12:15      | 12:30    | 0.25     | 12.50        | Pre-job safety            | PRE-JOB SAFETY MEETING WITH DIRECTIONAL HANDS             |
| 12:30      | 17:00    | 4.50     | 17.00        | Directional work          | PICK UP DIRECTIONAL TOOLS                                 |
| 17:00      | 19:00    | 2.00     | 19.00        | Pick up BHA               | P/U 38 JOINTS HWDP  |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting            | SAFETY MEETING WITH BOTH CREWS                            |
| 19:15      | 23:00    | 3.75     | 23.00        | Trips                     | CONTINUE TO PICK UP HWDP AND RIH FROM 360M TO 950M        |
| 23:00      | 00:00    | 1.00     | 24.00        | Directional surveys       | ACC SURVEY TIME AND TEST TOOL                             |

## MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 1,810.86            | 26,558.51                |
| Depth (mKB)<br>0.27           | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |

## MUD ADDITIVES

| Des          | Field Est (Cost/unit) | Consumed |
|--------------|-----------------------|----------|
| CAL CARB 325 | 9.80                  | 40.0     |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 1/31/2011  
 Report #: 15.0  
 Depth Progress: 18.00

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 52,254  
 Cum Cost to Date: 1,634,635

DFS: 11.44days

#### MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| DETERGENT | 61.30                 | 1.0      |
| DRISPAC   | 198.45                | 2.0      |
| KELZAN    | 498.75                | 1.0      |
| LIGNITE   | 15.72                 | 4.0      |
| ULTRAFLOC | 133.01                | 3.0      |

#### MUD PUMPS

| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|----------------|-------------------|---------------------------|
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   | 127.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|                |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |

#### BIT SUMMARY

| Bit Run                      | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes             |
|------------------------------|----------------|-----------------|-------------------|--------------------|----------------|------------------------|
| 3                            | Bit            | 222.0           | REED              | R15AMP             | EM2856         | 447                    |
| Nozzles (mm)                 | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull          |
| 4.3/14.3/14.3/14.3/14.3/14.3 | 1,114.00       | 1,240.27        | 126.00            | 20.25              | 6.2            | 1-1-NO-A-E-0.00-WT-BHA |

#### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Stands  |         |         | 46  | 876.48  | 2,341.85    |
| Drill pipe - Singles |         |         | 1   | 9.60    | 1,465.37    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 9   | 84.41   | 1,455.77    |
| Drill pipe - Stands  |         |         | 52  | 981.40  | 1,371.36    |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 389.96      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 9   | 84.41   | 341.94      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 257.53      |
| DC (5.00 IN)         | 60.0    | 126.0   | 5   | 48.02   | 252.21      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 204.19      |
| JARS-HYD/MECH        | 59.0    | 125.0   | 1   | 5.32    | 117.84      |
| TELEDRIFT            | 59.0    | 125.0   | 1   | 2.60    | 112.52      |
| DC (5.00 IN)         | 60.0    | 126.0   | 9   | 86.35   | 109.92      |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 23.57       |
| TELEDRIFT            | 59.0    | 125.0   | 1   | 2.60    | 13.99       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.81        |
| DC (5.00 IN)         | 60.0    | 128.0   | 1   | 9.58    | 11.39       |
| BIT SUB              | 60.0    | 128.0   | 1   | 0.77    | 1.04        |

#### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| 1,222.27          | 1,240.27        |                           | 24,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 110               |                 | 110                       |                               | 3.25               |                    |                |

#### SAFETY CHECKS

| Date      | Type           | Des             |
|-----------|----------------|-----------------|
| 1/31/2011 | Safety Meeting | LAYDOWN D.C.    |
| 1/1/2011  | Safety Meeting | FALL PROTECTION |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 1/31/2011  
Report #: 15.0  
Depth Progress: 18.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 52,254  
Cum Cost to Date: 1,634,635

DFS: 11.44days

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date     | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 2/1/2011 | 1,232.45 | 1.20     | 21.50   | 1,232.26  | 18.97  | 0.09   | -18.97 | 1.01        |

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
| Wabamun Grp    | 470.00             | 469.95                |
| Ft Simpson     | 719.00             | 718.85                |
| Twin Falls     | 830.00             | 829.84                |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 2/1/2011  
Report #: 16.0  
Depth Progress: 40.00**

**Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 67,936  
Cum Cost to Date: 1,702,571**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 12.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>1,240.00 | End Depth (mKB)<br>1,280.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                  |                        |                 |
|------------------|------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-1 | Lease Condition |
|------------------|------------------------|-----------------|

Operation at 6am  
**Drilling the build section @ 1310m**  
 Operations Summary  
 Tripped in the hole with the kick off assembly, reamed and washed from 1100m to 1140m. Tripped from 1140m to 1228m and washed to bottom from 1228m. Drilled from 1240m to 1280m.

Operations Next Report Period  
 Drill the 222mm build

Remarks  
 Changed out the rigs main electrical breaker with the breaker on the back up light plant generator. The breaker had been kicking out on daily basis and been causing frequent delays. Once the breaker was changed the Pason DHC would not come back on line, we attempted to repair the computer with Pason over the phone but could not get it to come back on as a fatal error had occurred, some sort of software corruption. We spent the remainder of the day changing out and rebuilding the rig POP valves, and jacking the rig with the rigs jacking system. The rig is continuing to sink; we added an additional 6" on the driller's side totaling 24" and 5" on the mud tank side totaling 22". We had a welder on location to modify the flow T.

One load of cuttings was hauled to CCS  
 Checked both new locations with the Paramount Construction Supervisor and discussed necessary changes.

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>28.0         | Personnel Total Hours (hr)<br>672.00 | Cum Personnel Total Hours (hr)<br>11,068.00 |                 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                             |  |
|------------------|----------|----------|--------------|-----------------------------|--|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2                      | Com  |
| 00:00            | 01:15    | 1.25     | 1.25         | Trips                       | RIH FROM 950M TO 1100M   |
| 01:15            | 02:00    | 0.75     | 2.00         | Reaming                     | REAMING FROM 1100 M TO 1140M   |
| 02:00            | 03:30    | 1.50     | 3.50         | Trip in hole                | TRIP IN HOLE FROM 1140M TO 1228M   |
| 03:30            | 03:45    | 0.25     | 3.75         | Ream & Clean                | WASH TO BOTTOM   |
| 03:45            | 04:45    | 1.00     | 4.75         | Drill                       | DRILL 222MM HOLE FROM 1240M TO 1247m   |
| 04:45            | 05:00    | 0.25     | 5.00         | Rig Service                 | RIG SERVICE FUNCTION ANNULAR 10 SEC TO CLOSE   |
| 05:00            | 07:00    | 2.00     | 7.00         | Drill                       | DRILL 222MM HOLE FROM 1247M TO 1257M   |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting              | SAFETY MEETING W/ BOTH CREWS   |
| 07:15            | 10:30    | 3.25     | 10.50        | Drill                       | DRILL 222 MM HOLE FROM 1257M TO 1280m  |
| 10:30            | 10:45    | 0.25     | 10.75        | Directional surveys         | DIRECTIONAL SURVEYS  |
| 10:45            | 11:45    | 1.00     | 11.75        | Downtime - Scr / Electrical | CHANGE OUT BREAKER IN LIGHT PLANT  |
| 11:45            | 12:00    | 0.25     | 12.00        | Other                       | PASON CRASHED, WAIT ON HOT SHOT  |
| 12:00            | 19:00    | 7.00     | 19.00        | Other                       | PASON SYSTEM CRASH, WAIT ON HOT SHOT, REMOVE CASING PROTECTORS, JACK RIG, REBUILD POP VALVE ASSEMBLY |
| 19:00            | 19:15    | 0.25     | 19.25        | Safety meeting              | SAFETY MEETING W/ BOTH CREWS   |
| 19:15            | 23:45    | 4.50     | 23.75        | Other                       | CONTINUE WAIT ON HOT SHOT, REMOVE FLOW T AND REFAB TO FIT, CHANGE OUT FLOW LINE TO 8", SHIM V-DOOR,  |
| 23:45            | 00:00    | 0.25     | 24.00        | Rig Service                 | RIG SERVICE FUNCTION HCR O/C 3 SEC   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/1/2011  
Report #: 16.0  
Depth Progress: 40.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 67,936  
Cum Cost to Date: 1,702,571

DFS: 12.44days

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 1,027.95            | 27,586.46                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
| 1,280.00                      | 1120.0                     | 47                        | 8.0                        |                       |                     |                          |

### MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| DRISPAC   | 198.45                | 1.0      |
| LIGNITE   | 15.72                 | 2.0      |
| ULTRAFLOC | 133.01                | 6.0      |

### MUD PUMPS

|                |                   |                  |
|----------------|-------------------|------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| 1              |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| 1              | 127.0             | 800.0            |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
|                |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |

### BIT SUMMARY

|                |                |                 |                   |                    |                |                       |
|----------------|----------------|-----------------|-------------------|--------------------|----------------|-----------------------|
| Bit Run        | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes            |
| 4              | Bit            | 222.0           | REED              | R20AMP             | W30040         | 517                   |
| Nozzles (mm)   | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull         |
| 14.3/14.3/14.3 | 1,240.00       | 1,333.00        | 93.00             | 10.50              | 8.9            | 1-1-NO-A-E-0.00-NO-WC |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.61    | 1,320.09    |
| Drill pipe - Stands  |         |         | 36  | 686.28  | 1,310.48    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 54  | 505.15  | 624.20      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 2   | 18.76   | 119.05      |
| JARS-HYD/MECH        | 59.0    | 121.0   | 1   | 5.60    | 100.29      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 6   | 56.28   | 94.69       |
| X/O                  | 69.0    | 160.0   | 1   | 0.67    | 38.41       |
| MONEL FLEX           | 76.0    | 161.0   | 2   | 18.12   | 37.74       |
| MONEL FLEX           | 81.0    | 159.0   | 1   | 9.07    | 19.62       |
| ORIENT SUB           | 64.0    | 164.0   | 1   | 1.00    | 10.55       |
| FLOAT SUB            | 64.0    | 165.0   | 1   | 1.11    | 9.55        |
| MOTOR LS             | 64.0    | 102.0   | 1   | 8.19    | 8.44        |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 1,240.00          | 1,280.00        |                           | 12,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 35                |                 | 35                        |                               | 4.00               |                    |                |

### SAFETY CHECKS

| Date   | Type           | Des                   |
|--------|----------------|-----------------------|
| 1/2011 | Safety Meeting | TRAPPED TABLE TOURQUE |
| 2/2011 | Safety Meeting | DRIFT CASING          |





### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/1/2011  
Report #: 16.0  
Depth Progress: 40.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 67,936  
Cum Cost to Date: 1,702,571

DFS: 12.44days

#### SAFETY INCIDENTS

| Date | Com. | Type |
|------|------|------|
|      |      |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date     | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 2/2/2011 | 1,280.49 | 8.10     | 174.86  | 1,280.24  | 17.37  | 0.19   | -17.37 | 15.84       |
| 2/2/2011 | 1,289.00 | 12.80    | 174.10  | 1,288.61  | 15.84  | 0.34   | -15.83 | 16.58       |
| 2/2/2011 | 1,299.00 | 18.00    | 169.80  | 1,298.25  | 13.21  | 0.72   | -13.20 | 15.96       |
| 2/2/2011 | 1,307.00 | 22.50    | 169.10  | 1,305.75  | 10.49  | 1.23   | -10.48 | 16.90       |
| 2/2/2011 | 1,318.00 | 26.40    | 169.20  | 1,315.76  | 6.02   | 2.09   | -6.00  | 10.64       |

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
| Wabamun Grp    | 470.00             | 469.95                |
| Ft Simpson     | 719.00             | 718.85                |
| Twin Falls     | 830.00             | 829.84                |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/2/2011  
Report #: 17.0  
Depth Progress: 53.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 57,374  
Cum Cost to Date: 1,759,945

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 13.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>1,280.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                          |                        |                 |
|--------------------------|------------------------|-----------------|
| Weather<br>PARTLY CLOUDY | Temperature (°C)<br>-2 | Lease Condition |
|--------------------------|------------------------|-----------------|

Operation at 6am  
Drilling

Operations Summary  
Waited on the new Pason Computer until 02:00hrs.  
Directionally drilled from 1280m to 1333m. Rop and motor performance are outstanding in the start of the build section. Stopped drilling prior to entering the Slave Point formation so we could level and center the drilling rig around the hole. Circulated numerous bottoms up, and flow checked then rigged out the water tank/dog house, catwalk, manifold and the mud tank. Rigged up the centrifuge tank as a makeshift mud tank to allow us to circulate during the jacking and leveling operation.

Operations Next Report Period  
Jack and level the rig

Remarks  
Mobilized Ardy's rigging, Mullen trucking and Big Iron welding to complete the job. 12'x40' bridge matting and 8' x 40' rig matting were delivered to location for the job.

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>28.0         | Personnel Total Hours (hr)<br>672.00 | Cum Personnel Total Hours (hr)<br>11,740.00 |                 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                           |   |
|------------------|----------|----------|--------------|---------------------------|---|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com   |
| 00:00            | 02:00    | 2.00     | 2.00         | W/O Third Party Personnel | W/O THIRD PARTY PERSONNEL   |
| 02:00            | 07:00    | 5.00     | 7.00         | Drill                     | DRILL 222 MM HOLE FROM 1280M TO 1315M   |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING W/ BOTH CREWS  |
| 07:15            | 10:00    | 2.75     | 10.00        | Drill                     | DRILL 222 MM HOLE FROM 1315M-1333M  |
| 10:00            | 12:00    | 2.00     | 12.00        | Condition mud & circulate | CONDITION MUD & CIRCULATE. PREPARE RIG FOR JACKING/SKIDDING WORK PIPE   |
| 12:00            | 19:00    | 7.00     | 19.00        | Condition mud & circulate | CONDITION MUD & CIRCULATE, PREPARE RIG FOR JACKING/SKIDDING WORK PIPE   |
| 19:00            | 19:15    | 0.25     | 19.25        | Safety meeting            | SAFETY MEETING WITH BOTH CREWS  |
| 19:15            | 00:00    | 4.75     | 24.00        | Level rig                 | TRANSFER FROM MUD TANKS TO 400 BBL, PREP TANKS TO SKID, RIG OUT PASON AND ALL REMAINING GROUND WORKS, SKID DOG HOUSE, CENTER AND LEVEL BOP'S JACK RIG |

|                               |                            |                              |                            |                       |                     |                          |
|-------------------------------|----------------------------|------------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| <b>MUD CHECKS</b>             |                            |                              |                            |                       |                     |                          |
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio              | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                     | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)    | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 498.75              | 28,085.21                |
| Depth (mKB)<br>1,330.00       | Density (kg/m³)<br>1120.0  | Funnel Viscosity (s/L)<br>49 | pH<br>8.0                  | PV Override (cp)      | YP Override (Pa)    |                          |

|                      |                                 |                 |
|----------------------|---------------------------------|-----------------|
| <b>MUD ADDITIVES</b> |                                 |                 |
| Des<br>KELZAN        | Field Est (Cost/unit)<br>498.75 | Consumed<br>1.0 |

|                  |                   |                  |
|------------------|-------------------|------------------|
| <b>MUD PUMPS</b> |                   |                  |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/2/2011  
Report #: 17.0  
Depth Progress: 53.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 57,374  
Cum Cost to Date: 1,759,945

DFS: 13.44days

|                  |                   |               |                           |
|------------------|-------------------|---------------|---------------------------|
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm) | Volumetric Efficiency (%) |
| Pump Number<br>1 | Rod Diameter (mm) | 127.0         | Pump Rating (kW)<br>800.0 |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm) | Volumetric Efficiency (%) |
| Pump Number      | Rod Diameter (mm) |               | Pump Rating (kW)          |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm) | Volumetric Efficiency (%) |

### BIT SUMMARY

|                                |                            |                             |                            |                             |                         |  |
|--------------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|-------------------------|--|
| Bit Run<br>4                   | Bit Type<br>Bit            | Size (mm)<br>222.0          | Make<br>REED               | Model<br>R20AMP             | Serial Number<br>W30040 | IADC Codes<br>517                      |
| Nozzles (mm)<br>14.3/14.3/14.3 | Depth In (mKB)<br>1,240.00 | Depth Out (mKB)<br>1,333.00 | Depth Drilled (m)<br>93.00 | Drilling Time (hr)<br>10.50 | BHA ROP (m/hr)<br>8.9   | IADC Bit Dull<br>1-1-NO-A-E-0.00-NO-WC |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.61    | 1,320.09    |
| Drill pipe - Stands  |         |         | 36  | 686.28  | 1,310.48    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 54  | 505.15  | 624.20      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 2   | 18.76   | 119.05      |
| JARS-HYD/MECH        | 59.0    | 121.0   | 1   | 5.60    | 100.29      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 6   | 56.28   | 94.69       |
| W/O                  | 69.0    | 160.0   | 1   | 0.67    | 38.41       |
| MONEL FLEX           | 76.0    | 161.0   | 2   | 18.12   | 37.74       |
| MONEL FLEX           | 81.0    | 159.0   | 1   | 9.07    | 19.62       |
| ORIENT SUB           | 64.0    | 164.0   | 1   | 1.00    | 10.55       |
| FLOAT SUB            | 64.0    | 165.0   | 1   | 1.11    | 9.55        |
| MOTOR LS             | 64.0    | 102.0   | 1   | 8.19    | 8.44        |

### DRILLING SUMMARY

|                               |                             |                           |                               |                            |                    |                |
|-------------------------------|-----------------------------|---------------------------|-------------------------------|----------------------------|--------------------|----------------|
| Start Depth (mKB)<br>1,280.00 | End Depth (mKB)<br>1,333.00 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>12,000 | Drilling Torque            | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)<br>35               | Motor RPM (rpm)             | Bit RPM (rpm)<br>35       | Slack-Off String Weight (daN) | Drilling Time (hr)<br>6.50 |                    |                |

### SAFETY CHECKS

| Date     | Type           | Des     |
|----------|----------------|---------|
| 2/2/2011 | Safety Meeting | V- DOOR |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Business Unit: NE BC & NWT COU**

**Rig: 24 Nabors Drilling**

**Report For: 2/3/2011**  
**Report #: 18.0**  
**Depth Progress: 0.00**

**Total AFE Amount: 2,535,440**  
**AFE Number: 10N110009**  
**Daily Cost: 94,006**  
**Cum Cost to Date: 1,853,951**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 14.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|  |                        |                 |
|--|------------------------|-----------------|
| Weather<br>Clear, was 8 above during the day | Temperature (°C)<br>-4 | Lease Condition |
|--|------------------------|-----------------|

Operation at 6am  
 Rigging out directional equipment

Operations Summary  
 Jacked and leveled the rig. Installed 6 8'x40' mats under the rig and 4 12' x 40' bridge mats under the rig on top of the existing rig matting. Skidded the rig ahead 5". When this was all said and done we had 40" of matting and dunnage under the front end of the sub structure. The ground continued to give way and the decision was made to move the rig off location and address the issue.

Moved the doghouse and mud tank back into position. Filled the suction tank and resumed circulation. When the catwalk and pipe table were back on position we pumped a pill and tripped out of the hole to lay down directional tools.

Operations Next Report Period  
 Run bridge plugs

|                            |                                    |  |                 |
|----------------------------|------------------------------------|--|-----------------|
| Remarks                    |                                    |  |                 |
| Avg Connection Gas (Units) | Avg Background Gas (Units)         | Avg Trip Gas (Units)                     | Max H2S (Units) |
| Head Count                 | Personnel Total Hours (hr)<br>28.0 | Cum Personnel Total Hours (hr)<br>672.00 | 12,412.00       |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com   |
|------------|----------|----------|--------------|---------------------------|---|
| 00:00      | 07:00    | 7.00     | 7.00         | Other                     | JACK RIG AND SKID   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING WITH BOTH CREWS  |
| 07:15      | 10:00    | 2.75     | 10.00        | Condition mud & circulate | CONDITION MUD & CIRCULATE   |
| 10:00      | 10:15    | 0.25     | 10.25        | Safety meeting            | SAFETY MEETING WITH RIG CREW, TRUCKERS, RIG JACKERS                             |
| 10:15      | 12:00    | 1.75     | 12.00        | Other                     | START SECOND STEP IN JACKING AND SKIDDING RIG                                   |
| 12:00      | 15:30    | 3.50     | 15.50        | Move rig                  | SPOT WATER TANK, MUD TANKS, CATWALK BACK IN PLACE LIFT PUMP HOUSE AND BOARD UP. |
| 15:30      | 19:00    | 3.50     | 19.00        | Rig up                    | RIG UP MUD TANKS, PUMP HOUSE, DOG HOUSE, INSTALL FLOW LINE                      |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting            | SAFETY MEETING WITH CREWS   |
| 19:15      | 21:15    | 2.00     | 21.25        | Condition mud & circulate | CONDITION MUD & CIRCULATE, RIG UP PIPE TABLES, TRANSFER VOLUME TO ACTIVE        |
| 21:15      | 23:30    | 2.25     | 23.50        | Trip out of hole          | TRIP OUT OF HOLE FROM 1319M TO 946M   |
| 23:30      | 23:45    | 0.25     | 23.75        | Safety meeting            | SAFETY MEETING W/ CREW PRIOR TO LAY DWN DP                                      |
| 23:45      | 00:00    | 0.25     | 24.00        | Lay down drill pipe       | LAY DOWN DRILL PIPE   |

### MUD CHECKS

|                               |                            |                           |                  |                            |                      |                          |
|-------------------------------|----------------------------|---------------------------|------------------|----------------------------|----------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L) | Calcium (mg/L)             | Lime (kg/m³)         | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)       | Temp Bottom Hole (°C)      | HTHP Pressure (kPa)  | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) |                  | Daily Mud Field Est (Cost) | Cum Mud Field Est... |                          |
|                               |                            |                           |                  | 1,467.36                   | 29,552.57            |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH               | PV Override (cp)           | YP Override (Pa)     |                          |
|                               | 1100.0                     | 49                        |                  | 8.0                        |                      |                          |

### MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| ARITE     | 22.31                 | 30.0     |
| ULTRAFLOC | 133.01                | 6.0      |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/3/2011  
 Report #: 18.0  
 Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 94,006  
 Cum Cost to Date: 1,853,951

DFS: 14.44days

### MUD PUMPS

|                  |                   |                  |
|------------------|-------------------|------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |

### BIT SUMMARY

|              |                                |                   |                    |                |               |            |
|--------------|--------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                       | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB) Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| PM (rpm)          | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date     | Type           | Des                |
|----------|----------------|--------------------|
| 2/3/2011 | Safety Meeting | SPOTTING BUILDINGS |
| 2/4/2011 | Safety Meeting | LAY DWN DP         |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 2/4/2011**  
**Report #: 19.0**  
**Depth Progress: 0.00**

**Business Unit: NE BC & NWT COU**  
**Rig: 24 Nabors Drilling**

**Total AFE Amount: 2,535,440**  
**AFE Number: 10N110009**  
**Daily Cost: 210,409**  
**Cum Cost to Date: 2,064,360**

|                                  |  |                                     |                   |                                       |  |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|--|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 15.44days                        |  |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |  |

|  |                             |                                      |                                |   |
|--|-----------------------------|--------------------------------------|--------------------------------|---|
| <b>Daily Operations</b>  |                             |                                      |                                |   |
| Start Depth (mKB)<br>1,333.00  | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point    | Target Depth (mKB)<br>2,534.00 |   |
| Weather<br>Wind 25k and clear  |                             | Temperature (°C)<br>-17              | Lease Condition                |   |
| Operation at 6am<br>Rigging out, moving at first light   |                             |                                      |                                |   |
| Operations Summary<br>Layed down the drill string from 900m and the Directional BHA. Waited on the BJ tool hand to arrive with the "WRH" Retrievable Bridge Plugs. The plugs were send up from Edmonton and were delayed due to the icy road conditions. Cleaned mud tanks and rigged out until the tool hand arrived.   |                             |                                      |                                |   |
| Held a safety meeting and ran the first plug in on drill pipe to 355m, 5m above the casing shoe. Filled the 102mm drill pipe with water and tied in the pressure tester. Closed the pipe rams and chained down the drill pipe. The plug set 21mpa. The mechanical reaction of setting the plug was fairly violent at surface. The decision was made to trip out and run the second plug @ 336m. Setting the bridge plug on drill pipe would not have been safe at 15m. Both plugs tested low 1,500kpa and 10,500kpa high and held for 10 min each. |                             |                                      |                                |   |
| Layed down the remaining 37 joints of drill pipe and nipped down the bop's.  |                             |                                      |                                |   |
| Rig released to the E-52 well at 23:59 hours   |                             |                                      |                                |   |
| Operations Next Report Period<br>Move to E-52 location   |                             |                                      |                                |   |
| Remarks<br>Added 25,578.00 for cuttings disposal   |                             |                                      |                                |   |
| Avg Connection Gas (Units)   |                             | Avg Background Gas (Units)           |                                | Max H2S (Units)                             |
| Lead Count<br>32.0   |                             | Personnel Total Hours (hr)<br>768.00 |                                | Cum Personnel Total Hours (hr)<br>13,180.00 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                                |   |
|------------------|----------|----------|--------------|--------------------------------|---|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2                         | Com   |
| 00:00            | 04:15    | 4.25     | 4.25         | Lay down drill pipe            | LAY DOWN DRILL PIPE AND HWDP FROM 908M TO 100M                              |
| 04:15            | 04:30    | 0.25     | 4.50         | Safety meeting                 | SAFETY MEETING PRIOR TO LAY DWN DIR TOOLS                                   |
| 04:30            | 06:00    | 1.50     | 6.00         | Handle directional tools       | LAY DWN DIR TOOLS   |
| 06:00            | 06:30    | 0.50     | 6.50         | Clean - floor / Pump / screens | CLEAN- FLOOR  |
| 06:30            | 07:00    | 0.50     | 7.00         | W/O Third Party Personnel      | W/O THIRD PARTY PERSONNEL   |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting                 | SAFETY MEETING W/ BOTH CREWS  |
| 07:15            | 12:00    | 4.75     | 12.00        | W/O Third Party Tools          | W/O THIRD PARTY TOOLS TEAR OUT PRE FABs, CLEAN UP RIG AND LEASE             |
| 12:00            | 13:00    | 1.00     | 13.00        | W/O Third Party Tools          | W/O THIRD PARTY TOOLS   |
| 13:00            | 13:15    | 0.25     | 13.25        | Pre-job safety                 | PRE-JOB SAFETY MEETING WITH TOOL HAND                                       |
| 13:15            | 14:30    | 1.25     | 14.50        | Trips                          | TRIP PIPE INTO HOLE TO SET BRIDGE PLUG                                      |
| 14:30            | 15:15    | 0.75     | 15.25        | Other                          | FILL PIPE AND SET WR PLUG @ 355M  |
| 15:15            | 15:30    | 0.25     | 15.50        | Pre-job safety                 | PRE-JOB SAFETY WITH PRESURE TESTER AND CREW                                 |
| 15:30            | 16:15    | 0.75     | 16.25        | Pressure test BOPs             | PRESSURE TEST BRIDGE PLUG #1 @ 1500 KPA LOW 10500 HIGH TEST HELD FOR 10 MIN |
| 16:15            | 17:45    | 1.50     | 17.75        | Trip out of hole               | TRIP DP OUT OF HOLE   |
| 17:45            | 18:45    | 1.00     | 18.75        | Trip in hole                   | TRIP IN HOLE WITH DP AND SECOND BRIDGE PLUG                                 |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/4/2011  
Report #: 19.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 210,409  
Cum Cost to Date: 2,064,360

DFS: 15.44days

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                         | Com  |
|------------|----------|----------|--------------|--------------------------------|--|
| 18:45      | 19:00    | 0.25     | 19.00        | Other                          | FILL PIPE TO SET BRIDGE PLUG NO.2  |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting                 | SAFETY MEETING WITH BOTH CREWS   |
| 19:15      | 19:45    | 0.50     | 19.75        | Other                          | SET BRIDGE PLUG # 2 @ 336M   |
| 19:45      | 20:45    | 1.00     | 20.75        | Test BOP                       | PRESS TEST BRIDGE PLUG # 2 1500 KPA LOW 10500KPA HIGH TEST HELD FOR 10 MIN, RIG OUT PRESS TESTER |
| 20:45      | 22:30    | 1.75     | 22.50        | Lay down drill pipe            | LAY DOWN DRILL PIPE  |
| 22:30      | 22:45    | 0.25     | 22.75        | Clean - floor / Pump / screens | CLEAN - FLOOR AND SUB  |
| 22:45      | 00:00    | 1.25     | 24.00        | Nipple down BOPs               | NIPPLE DOWN BOPS   |

### MUD CHECKS

|  |   |  |                            |                       |                           |                          |
|--|---|--|----------------------------|-----------------------|---------------------------|--------------------------|
| Low Gravity Solids (%)                     | MBT (kg/m <sup>3</sup> )                | Oil Water Ratio                        | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m <sup>3</sup> ) | Potassium (mg/L)         |
| Electric Stab (V)                          | ECD - Manual Entry (kg/m <sup>3</sup> ) | Sand (%)                               | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa)       | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m <sup>3</sup> ) | Mud Lost to Hole (m <sup>3</sup> )      | Cum Mud Lost to Hole (m <sup>3</sup> ) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                           |                          |
| Depth (mKB)                                | Density (kg/m <sup>3</sup> )            | Funnel Viscosity (s/L)                 | pH                         | PV Override (cp)      | YP Override (Pa)          |                          |

### MUD ADDITIVES

| Des | Field Est (Cost/unit) | Consumed |
|-----|-----------------------|----------|
|     |                       |          |

### MUD PUMPS

|                  |                   |                  |
|------------------|-------------------|------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                                 |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |

### SAFETY CHECKS

| Date     | Type           | Des           |
|----------|----------------|---------------|
| 2/4/2011 | Safety Meeting | PRESSURE TEST |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/4/2011  
 Report #: 19.0  
 Depth Progress: 0.00

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 210,409  
 Cum Cost to Date: 2,064,360

DFS: 15.44days

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

#### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |





# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/10/2011  
Report #: 20.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 40,129  
Cum Cost to Date: 2,104,489

|                                  |  |                                       |                                     |                                      |
|----------------------------------|--|---------------------------------------|-------------------------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073                   | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  |                                       | Rig Release Date<br>3/21/2011 12:00 | DFS: 21.44days                       |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                                     |                                      |

## Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-22 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am

W/O daylight rig watching

Operations Summary

Welding is complete on the I beam frame, rig watchers are on E-52 performing maintenance and prepping the rig to move back onto 2H-03. The boiler is running keeping surface, mainhole mud and water warm until the move. The casing bowl was welded on E-52.

Operations Next Report Period

Construction to build ice and snow pad on location over piles and I beam frame

Remarks

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>5.0          | Personnel Total Hours (hr)<br>120.00 | Cum Personnel Total Hours (hr)<br>13,300.00 |                 |

## DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2            | Com   |
|------------|----------|----------|--------------|-------------------|---|
| 00:00      | 00:00    | 24.00    | 24.00        | Crews on days off | Welders completed I beam welding, rig crews prepping rig for move, casing bowl welded on E-52 |

## MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |

## MUD ADDITIVES

| Des | Field Est (Cost/unit) | Consumed |
|-----|-----------------------|----------|
|     |                       |          |

## MUD PUMPS

|                           |                   |                           |
|---------------------------|-------------------|---------------------------|
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW)<br>127.0 |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |

## BIT SUMMARY

|              |                |                 |                   |                    |                |               |
|--------------|----------------|-----------------|-------------------|--------------------|----------------|---------------|
| Bit Run      | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes    |
| Nozzles (mm) | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |

## DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/10/2011

Report #: 20.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 40,129

Cum Cost to Date: 2,104,489

DFS: 21.44days

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                                 |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |

### SAFETY CHECKS

| Date | Type | Des |
|------|------|-----|
|      |      |     |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m <sup>3</sup> ) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|------------------------------|-----------------|
|          |         |         |                 |                              |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Seaverhill Lake Fm | 1,325.00           | 1,321.96              |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/11/2011  
Report #: 21.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 26,144  
Cum Cost to Date: 2,130,633

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 22.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                       |                         |                 |
|-----------------------|-------------------------|-----------------|
| Weather<br>Light snow | Temperature (°C)<br>-17 | Lease Condition |
|-----------------------|-------------------------|-----------------|

Operation at 6am  
W/O daylight rig watching

Operations Summary  
Construction building new ice pad over the piles on location., rig watchers are on E-52 performing maintenance and prepping the rig to move back onto 2H-03. The boiler is running keeping surface, mainhole mud and water warm until the move. The crews laid down remaining DC's and laid over the derrick. Nabors mechanics repaired damaged drawworks clutch and installed a new crown saver

Operations Next Report Period  
Rebuild lease, Rig watch and prep to move

Remarks  
Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                   |                                      |   |
|-------------------|--------------------------------------|---|
| Head Count<br>5.0 | Personnel Total Hours (hr)<br>120.00 | Cum Personnel Total Hours (hr)<br>13,420.00 |
|-------------------|--------------------------------------|---|

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2            | Com   |
|------------|----------|----------|--------------|-------------------|---|
| 0:00       | 00:00    | 24.00    | 24.00        | Crews on days off | Mechanics repaired drawworks and crown saver, laid down dc's and the derrick.<br>2 rig watchers @ \$750.00/man/day plus boiler cost |

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |

### MUD ADDITIVES

|     |                       |          |
|-----|-----------------------|----------|
| Des | Field Est (Cost/unit) | Consumed |
|-----|-----------------------|----------|

### MUD PUMPS

|                           |                   |                           |
|---------------------------|-------------------|---------------------------|
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW)<br>127.0 |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |

### BIT SUMMARY

|              |                                |                   |                    |                |               |            |
|--------------|--------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                       | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB) Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

|          |         |         |     |         |             |
|----------|---------|---------|-----|---------|-------------|
| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/11/2011

Report #: 21.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 26,144

Cum Cost to Date: 2,130,633

DFS: 22.44days

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date | Type | Des |
|------|------|-----|
|      |      |     |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/12/2011  
Report #: 22.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 18,569  
Cum Cost to Date: 2,149,202

|                                  |  |                                       |                                     |                                      |
|----------------------------------|--|---------------------------------------|-------------------------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073                   | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  |                                       | Rig Release Date<br>3/21/2011 12:00 | DFS: 23.44days                       |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                                     |                                      |

|  |                                      |   |                                |  |
|--|--------------------------------------|---|--------------------------------|--|
| <b>Daily Operations</b>  |                                      |   |                                |  |
| Start Depth (mKB)<br>1,333.00  | End Depth (mKB)<br>1,333.00          | Target Formation<br>Sulphur Point           | Target Depth (mKB)<br>2,534.00 |  |
| Weather<br>snowing   | Temperature (°C)<br>-15              | Lease Condition                             |                                |  |
| Operation at 6am<br>W/O daylight rig watching  |                                      |   |                                |  |
| Operations Summary<br>Construction crews completed the rebuild of the 2H-03 location, The boiler is running keeping surface, mainhole mud and water warm until the move. The crews laid down remaining DC's and laid over the derrick. Nabors mechanics changed out the Drawworks Driveline U-joint and set up the brakes. Electricians changed out the damaged derrick conduit and light balasts. Crews removed snow. |                                      |   |                                |  |
| Operations Next Report Period<br>Rig watch and prep to move  |                                      |   |                                |  |
| Remarks<br>Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52  |                                      |   |                                |  |
| Avg Connection Gas (Units)   | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units)                |  |
| Head Count<br>5.0  | Personnel Total Hours (hr)<br>120.00 | Cum Personnel Total Hours (hr)<br>13,540.00 |                                |  |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| <b>TIME LOG SUMMARY</b> |          |          |              |        |   |
|-------------------------|----------|----------|--------------|--------|---|
| Start Time              | End Time | Dur (hr) | Cum Dur (hr) | Code 2 | Com   |
| 0:00                    | 00:00    | 24.00    | 24.00        |        | Mechanics changed out the Drawworks Driveline U-joint and set up the brakes. Changed out the damaged derrick conduit and light balasts. Removed snow.<br><br>2 rig watchers @ \$750.00/man/day plus boiler cost |

|                               |                            |                           |                  |                            |                      |                          |
|-------------------------------|----------------------------|---------------------------|------------------|----------------------------|----------------------|--------------------------|
| <b>MUD CHECKS</b>             |                            |                           |                  |                            |                      |                          |
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L) | Calcium (mg/L)             | Lime (kg/m³)         | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)       | Temp Bottom Hole (°C)      | HTHP Pressure (kPa)  | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) |                  | Daily Mud Field Est (Cost) | Cum Mud Field Est... |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH               | PV Override (cp)           | YP Override (Pa)     |                          |

|                      |                       |          |
|----------------------|-----------------------|----------|
| <b>MUD ADDITIVES</b> |                       |          |
| Des                  | Field Est (Cost/unit) | Consumed |

|                  |                   |                  |                           |
|------------------|-------------------|------------------|---------------------------|
| <b>MUD PUMPS</b> |                   |                  |                           |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number<br>1 | Rod Diameter (mm) | 127.0            | Pump Rating (kW)<br>800.0 |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |

|                    |                                |                   |                    |                |               |            |
|--------------------|--------------------------------|-------------------|--------------------|----------------|---------------|------------|
| <b>BIT SUMMARY</b> |                                |                   |                    |                |               |            |
| Bit Run            | Bit Type                       | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm)       | Depth In (mKB) Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/12/2011  
Report #: 22.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 18,569  
Cum Cost to Date: 2,149,202

DFS: 23.44days

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
|                   |                 |                           |                               |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
|                   |                 |                           |                               |                    |                    |                |

### SAFETY CHECKS

| Date | Type | Des |
|------|------|-----|
|      |      |     |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Vabamun Grp        | 470.00             | 469.95                |
| ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/13/2011  
Report #: 23.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 16,402  
Cum Cost to Date: 2,165,604

|                                  |  |                             |                                       |                                      |
|----------------------------------|--|-----------------------------|---------------------------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills | License #<br>2073                     | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  |                             | Rig Release Date<br>3/21/2011 12:00   | DFS: 24.44days                       |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            |                             | KB-Casing Flange Distance (m)<br>5.02 |                                      |

|  |                                      |   |                                |  |
|--|--------------------------------------|---|--------------------------------|--|
| <b>Daily Operations</b>  |                                      |   |                                |  |
| Start Depth (mKB)<br>1,333.00  | End Depth (mKB)<br>1,333.00          | Target Formation<br>Sulphur Point           | Target Depth (mKB)<br>2,534.00 |  |
| Weather<br>Light snow  | Temperature (°C)<br>-15              | Lease Condition                             |                                |  |
| Operation at 6am<br>W/O daylight rig watching  |                                      |   |                                |  |
| Operations Summary<br>Crews removed snow, organized tubulars, rigged down pre-fabs and Pason cords.<br>Boiler running keeping heat on surface and mainhole mud systems in storage. |                                      |   |                                |  |
| Operations Next Report Period<br>Rig watch and prep to move  |                                      |   |                                |  |
| Remarks<br>Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52  |                                      |   |                                |  |
| Avg Connection Gas (Units)   | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units)                |  |
| Head Count<br>5.0  | Personnel Total Hours (hr)<br>120.00 | Cum Personnel Total Hours (hr)<br>13,660.00 |                                |  |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| <b>TIME LOG SUMMARY</b> |          |          |              |        |  |
|-------------------------|----------|----------|--------------|--------|--|
| Start Time              | End Time | Dur (hr) | Cum Dur (hr) | Code 2 | Com  |
| 00:00                   | 00:00    | 24.00    | 24.00        |        | Removed snow. Worked with Electricians, rigged out pre-fabs and Pason Cords, organized tubulars for the move<br>2 rig watchers @ \$750.00/man/day plus boiler cost |

|                               |                            |                           |                            |                       |                     |                          |  |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|--|
| <b>MUD CHECKS</b>             |                            |                           |                            |                       |                     |                          |  |
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |  |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |  |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |  |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |  |

|                      |                       |          |
|----------------------|-----------------------|----------|
| <b>MUD ADDITIVES</b> |                       |          |
| Des                  | Field Est (Cost/unit) | Consumed |

|                  |                   |                           |                           |
|------------------|-------------------|---------------------------|---------------------------|
| <b>MUD PUMPS</b> |                   |                           |                           |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)          |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)             | Volumetric Efficiency (%) |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)<br>127.0 | 800.0                     |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)             | Volumetric Efficiency (%) |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW)          |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)             | Volumetric Efficiency (%) |

|                    |                                |                   |                    |                |               |            |
|--------------------|--------------------------------|-------------------|--------------------|----------------|---------------|------------|
| <b>BIT SUMMARY</b> |                                |                   |                    |                |               |            |
| Bit Run            | Bit Type                       | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm)       | Depth In (mKB) Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

|                                |         |         |     |         |             |
|--------------------------------|---------|---------|-----|---------|-------------|
| <b>DRILL STRING COMPONENTS</b> |         |         |     |         |             |
| Item Des                       | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|                                |         |         |     |         |             |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/13/2011  
Report #: 23.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 16,402  
Cum Cost to Date: 2,165,604

DFS: 24.44days

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date | Type | Des |
|------|------|-----|
|      |      |     |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |





## Daily Drilling

Well Name: **PARA ET AL CAMERON 2H-03 HZ**

Business Unit: **NE BC & NWT COU**  
Rig: **24 Nabors Drilling**

Report For: **2/14/2011**  
Report #: **24.0**  
Depth Progress: **0.00**

Total AFE Amount: **2,535,440**  
AFE Number: **10N110009**  
Daily Cost: **15,052**  
Cum Cost to Date: **2,180,656**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 25.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-27 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am

W/O daylight rig watching

Operations Summary

Rig Watchers changed oil in the rigs lighplant, floor motor and chain case. Changed out all hydraulic fittings on the catwalk.

Boiler running keeping heat on surface and mainhole mud systems in storage.

Operations Next Report Period

Rig watch and prep for Wednesday move. Vacuum truck will start hauling drilling mud late this evening to storage at 2H-03

Remarks

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52

Rig move will commence Wenesday afternoon

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                   |                                      |   |
|-------------------|--------------------------------------|---|
| Head Count<br>5.0 | Personnel Total Hours (hr)<br>120.00 | Cum Personnel Total Hours (hr)<br>13,780.00 |
|-------------------|--------------------------------------|---|

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2 | Com   |
|------------|----------|----------|--------------|--------|---|
| 00:00      | 00:00    | 24.00    | 24.00        |        | changed oil in the rigs lighplant, floor motor and chain case. Changed out all hydraulic fittings on the catwalk. |

### MUD CHECKS

|                               |                            |                           |                            |                       |                    |                         |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|--------------------|-------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)       | Potassium (mg/L)        |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HHP Pressure (kPa) | HHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                    |                         |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)   |                         |

### MUD ADDITIVES

|     |                       |          |
|-----|-----------------------|----------|
| Des | Field Est (Cost/unit) | Consumed |
|-----|-----------------------|----------|

### MUD PUMPS

|                           |                   |                           |
|---------------------------|-------------------|---------------------------|
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW)<br>127.0 |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/14/2011

Report #: 24.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 15,052

Cum Cost to Date: 2,180,656

DFS: 25.44days

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date | Type | Des |
|------|------|-----|
|      |      |     |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azim (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|----------|-----------|--------|--------|--------|-------------|
|      |          |          |          |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Vabamun Grp        | 470.00             | 469.95                |
| t Simpson          | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/15/2011  
Report #: 25.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 15,052  
Cum Cost to Date: 2,195,708

|                                  |  |                                       |                                     |                                      |
|----------------------------------|--|---------------------------------------|-------------------------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073                   | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  |                                       | Rig Release Date<br>3/21/2011 12:00 | DFS: 26.44days                       |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                                     |                                      |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-30 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Rig watch, crews travelling to airport for flight to Highlevel

Operations Summary  
Rig Watchers, preparing the rig for the move

Boiler running keeping heat on surface and mainhole mud systems in storage.

Operations Next Report Period  
Rig move to commence mid afternoon

Remarks  
Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                   |                                      |   |
|-------------------|--------------------------------------|---|
| Head Count<br>5.0 | Personnel Total Hours (hr)<br>120.00 | Cum Personnel Total Hours (hr)<br>13,900.00 |
|-------------------|--------------------------------------|---|

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2 | Com                            |
|------------|----------|----------|--------------|--------|--------------------------------|
| 00:00      | 00:00    | 24.00    | 24.00        |        | Prepped rig for tomorrows move |

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |

### MUD ADDITIVES

| Des | Field Est (Cost/unit) | Consumed |
|-----|-----------------------|----------|
|     |                       |          |

### MUD PUMPS

|                           |                   |                           |
|---------------------------|-------------------|---------------------------|
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |
| Pump Number<br>1          | Rod Diameter (mm) | Pump Rating (kW)<br>127.0 |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)             |
| Volumetric Efficiency (%) |                   |                           |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/15/2011

Report #: 25.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 15,052

Cum Cost to Date: 2,195,708

DFS: 26.44days

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

#### SAFETY CHECKS

| Date | Type | Des |
|------|------|-----|
|      |      |     |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (?/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

#### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Seaverhill Lake Fm | 1,325.00           | 1,321.96              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/16/2011  
Report #: 26.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 50,735  
Cum Cost to Date: 2,246,442

|                                 |  |                                       |                   |                                      |
|---------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UW<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45    | Rig Release Date<br>3/21/2011 12:00            |                                       | DFS: 27.44days    |                                      |
| Ground Elevation (m)<br>770.20  | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-32 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
W/O daylight for rig move

Operations Summary  
Crews flew into Highlevel then travelled to location. Held a safety meeting with Mullen Trucking and began moving the rig. 80% of the rig moved to the 2H-03 location. Flooded the 2H-03 lease over night to level it out around hole center.

Operations Next Report Period  
Complete rig move and rig up

Remarks  
Two bed trucks a picker and 3 tractors on the move.  
Aircraft cost entered as well as half dayrate on the drilling rig for yesterday

NEB Inspectors were in the Cameron Hills area. Staying in Hay River

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                    |                                      |   |
|--------------------|--------------------------------------|---|
| Head Count<br>36.0 | Personnel Total Hours (hr)<br>864.00 | Cum Personnel Total Hours (hr)<br>14,764.00 |
|--------------------|--------------------------------------|---|

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

**TIME LOG SUMMARY**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com  |
|------------|----------|----------|--------------|----------------|--|
| 00:00      | 12:00    | 12.00    | 12.00        | Rig Watch      | RIG WATCH DAY#7/ 2 WATCHERS @ \$750 A DAY PER MAN, BOILER RUNNING TO HEAT 400 BBLs / FLY CREWS IN TO HIGH LEVEL & TRANSPORT TO THE RIG |
| 12:00      | 12:15    | 0.25     | 12.25        | Safety meeting | SAFETY MEETING WITH MULLEN TRUCKING  |
| 12:15      | 20:00    | 7.75     | 20.00        | Move rig       | LOAD UP & MOVE THE RIG & MATTING TO 2H-03 (C6473 ) LOCATION  |
| 20:00      | 00:00    | 4.00     | 24.00        | W/O Daylight   | W/O DAYLIGHT TO MOVE SHACKS, RENTALS, & SPOT RIG   |

**MUD CHECKS**

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |

|                      |                                |
|----------------------|--------------------------------|
| <b>MUD ADDITIVES</b> |                                |
| Des                  | Field Est (Cost/unit) Consumed |

**MUD PUMPS**

|                  |                   |   |
|------------------|-------------------|---|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)                        |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm) Volumetric Efficiency (%) |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)<br>127.0 800.0         |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm) Volumetric Efficiency (%) |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW)                        |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm) Volumetric Efficiency (%) |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/16/2011  
Report #: 26.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 50,735  
Cum Cost to Date: 2,246,442

DFS: 27.44days

#### BIT SUMMARY

|              |                               |           |                   |                    |                |               |
|--------------|-------------------------------|-----------|-------------------|--------------------|----------------|---------------|
| Bit Run      | Bit Type                      | Size (mm) | Make              | Model              | Serial Number  | IADC Codes    |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) |           | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |

#### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|----------|---------|---------|-----|---------|-------------|

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

#### SAFETY CHECKS

| Date      | Type           | Des              |
|-----------|----------------|------------------|
| 2/16/2011 | Safety Meeting | RIG MOVE         |
| 2/17/2011 | Safety Meeting | SPOTTING MATTING |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|------|-----|------|

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|----------|---------|---------|-----------------|-----------------|-----------------|

#### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|

#### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/17/2011  
Report #: 27.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 109,828  
Cum Cost to Date: 2,356,270

|                                  |  |                             |                                       |                                      |
|----------------------------------|--|-----------------------------|---------------------------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills | License #<br>2073                     | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  |                             | Rig Release Date<br>3/21/2011 12:00   | DFS: 28.44days                       |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            |                             | KB-Casing Flange Distance (m)<br>5.02 |                                      |

## Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-39 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Nippling up, rigging up

### Operations Summary

Completed the rig move to 2H-03, spotted all rig and rental loads. Transferred all surface and mainhole mud from E-52 to 2H-03, we had a few challenges with everything as it was 40 below yesterday.

Raised the low section of the derrick last night, but could not raise the derrick as there is an issue with the air to the hoisting clutch. Nabors mechanics were trouble shooting with the toolpush over the phone. This did not hinder us too badly yesterday as rig up activities were taking place in other areas. Flare tank was rigged in, pason power cords and steam lines were run. Centrifuge tank and shale dryer were rigged up.

### Operations Next Report Period

Raise the derrick, complete nipple up, pressure test. Pick up HWDP and pull bridge plugs

### Remarks

NEB Inspectors were in the Cameron Hills area. Staying in Hay River

Rig move cost 46,800.00 and fuel cost of 27,115.00 entered into daily cost

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52. Left all drill collars and surface hole equipment on E-52

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Lead Count<br>30.0         | Personnel Total Hours (hr)<br>720.00 | Cum Personnel Total Hours (hr)<br>15,484.00 |                 |

## DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                   | Com   |
|------------|----------|----------|--------------|--------------------------|---|
| 00:00      | 08:00    | 8.00     | 8.00         | W/O Daylight             | W/O DAYLIGHT TO CONTINUE TO MOVE THE RIG  |
| 08:00      | 08:15    | 0.25     | 8.25         | Safety meeting           | SAFETY MEETING WITH MULLEN TRUCKING   |
| 08:15      | 12:00    | 3.75     | 12.00        | Move rig                 | SPOT MATS, & THE RIG, LOAD UP & MOVE SHACKS & RENTALS TO THE NEW LOCATION                   |
| 12:00      | 16:30    | 4.50     | 16.50        | Spot rig/loads/buildings | SPOT RIG/LOADS/BUILDINGS  |
| 16:30      | 00:00    | 7.50     | 24.00        | Rig up                   | RIG UP STEAM, AIR AND, POWER RIG IN MUD TANKS AND MUD PUMPS, RAISE LOWER SECTION OF DERRICK |

## MUD CHECKS

|                               |                            |                           |                            |                       |                    |                         |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|--------------------|-------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)       | Potassium (mg/L)        |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HHP Pressure (kPa) | HHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                    |                         |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)   |                         |

## MUD ADDITIVES

|     |                       |          |
|-----|-----------------------|----------|
| Des | Field Est (Cost/unit) | Consumed |
|-----|-----------------------|----------|

## MUD PUMPS

|                |                   |                           |
|----------------|-------------------|---------------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/17/2011

Report #: 27.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 109,828

Cum Cost to Date: 2,356,270

DFS: 28.44days

### MUD PUMPS

|                  |                   |                  |                           |       |
|------------------|-------------------|------------------|---------------------------|-------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) | 127.0                     | 800.0 |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |       |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |                           |       |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |       |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date | Type | Des |
|------|------|-----|
|      |      |     |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |





## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Business Unit: NE BC & NWT COU**

**Rig: 24 Nabors Drilling**

**Report For: 2/18/2011**

**Report #: 28.0**

**Depth Progress: 0.00**

**Total AFE Amount: 2,535,440**

**AFE Number: 10N110009**

**Daily Cost: 50,776**

**Cum Cost to Date: 2,407,046**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 29.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|   |                         |                 |
|---|-------------------------|-----------------|
| Weather<br>Clear, the wind at 25k. Its cold | Temperature (°C)<br>-25 | Lease Condition |
|---|-------------------------|-----------------|

Operation at 6am  
Pressure Testing the Kelly, 312m HWDP in the hole

Operations Summary  
Three hours of the day spent working on the Drawworks Hoisting Clutch. (could not raise the derrick) Nipped up the bops using the hoisting rams because the tuggers were not available. Held a pre job safety meeting @ 11:00 then raised the top derrick section. Displaced 500l of Diesel from the top of the well in to a storage tote. Pressure tested the bop's (details in tomorrows report). Picked up a new Kelly bar and made up chain tong tight. Carried on pressure testing.

Operations Next Report Period  
Pull WR Plugs, make up directional tools, drill the 222mm build

Remarks  
We had a 300l mud spill on the the rig matting, a hole the size of a quarter below bridge gate caused the spill. The spill was cleaned up, tank repaired and the spill was reported.

Hoe operator cleaned out shale bins and built snow ramps. Hooked up the flare stack, blooey and degasser lines. Changed out the light plant at the security shack as it was constantly going down. BJ tool service hand arrived @ 21:00hrs to pull bridge plugs.

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.  
Left all drill collars and surface hole equipment on E-52

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                    |                                      |   |
|--------------------|--------------------------------------|---|
| Head Count<br>31.0 | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>16,228.00 |
|--------------------|--------------------------------------|---|

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2               | Com   |
|------------|----------|----------|--------------|----------------------|---|
| 00:00      | 03:00    | 3.00     | 3.00         | Downtime - Drawworks | DOWNTIME - DRAWWORKS , WORK ON HOISTING CLUTCH AIR SYSTEM   |
| 03:00      | 07:00    | 4.00     | 7.00         | Nipple up BOPs       | WARM UP BOP INSTALL DSA, , STACK & CHOKE LINE   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting       | SAFETY MEETING WITH BOTH CREWS  |
| 07:15      | 11:00    | 3.75     | 11.00        | Nipple up BOPs       | CONTINUE TO NIPPLE UP BOPS, HOOK UP BOP LINES & FUNCTION TEST BOP                                   |
| 11:00      | 12:00    | 1.00     | 12.00        | Rig up               | RIG UP RAISE TOP SECTION OF DERRICK/ SAFETY MEETING PRIOR TO RAISE                                  |
| 12:00      | 14:00    | 2.00     | 14.00        | Nipple up BOPs       | DISPLACE DIESEL FUEL FROM WELL & INSTALL KILL LINES   |
| 14:00      | 19:00    | 5.00     | 19.00        | Other                | PICK UP MOUSE HOLE AND KELLY SOCK. RIG UP FLARE AND DEGASSER LINES, INSTALL PRE FABS ON DRILL FLOOR |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting       | SAFETY MEETING WITH BOTH CREWS AND PRESSURE TESTER  |
| 19:15      | 21:00    | 1.75     | 21.00        | Pressure test BOPs   | PRESSURE TEST MANIFOLD, CONTINUE TO RIG UP PRE FABS   |
| 21:00      | 21:45    | 0.75     | 21.75        | Rig up top drive     | PICK UP / MAKE UP KELLY   |
| 21:45      | 00:00    | 2.25     | 24.00        | Pressure test BOPs   | PRESSURE TEST BOP, DETAILS IN NEXT TOUR   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/18/2011

Report #: 28.0

Depth Progress: 0.00

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 50,776

Cum Cost to Date: 2,407,046

DFS: 29.44days

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |

### MUD ADDITIVES

| Des | Field Est (Cost/unit) | Consumed |
|-----|-----------------------|----------|
|     |                       |          |

### MUD PUMPS

|                  |                   |                  |
|------------------|-------------------|------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des                           |
|-----------|----------------|-------------------------------|
| 2/18/2011 | Safety Meeting | EQUIPMENT CARE AND INSPECTION |
| 2/19/2011 | Safety Meeting | PICK UP HWDP                  |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| win Falls          | 830.00             | 829.84                |
| Heaverhill Lake Fm | 1,325.00           | 1,321.96              |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/19/2011  
Report #: 29.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 79,263  
Cum Cost to Date: 2,486,309

|                                  |  |                                       |                                     |                                      |
|----------------------------------|--|---------------------------------------|-------------------------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073                   | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  |                                       | Rig Release Date<br>3/21/2011 12:00 | DFS: 30.44days                       |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                                     |                                      |

#### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                     |                         |                 |
|---------------------|-------------------------|-----------------|
| Weather<br>Pleasant | Temperature (°C)<br>-12 | Lease Condition |
|---------------------|-------------------------|-----------------|

Operation at 6am  
Picking up singles on the way in the hole, losing volume to the Wabamun formation

#### Operations Summary

Completed pressure testing as detailed in time breakdown.  
Held a safety meeting with the Baker Tool hand then made up the retrieving assembly and began picking up HWDP. Pulled the top plug @ 336m then ran in and latched onto the bottom plug at 355m. Conducted a hazard hunt, rig inspection and bop drill. Released the plug and flow checked for 10min, well was static. Laid down the bottom bridge plug and retrieving assembly.  
Made up the Reed R20 AMP 517 and directional assembly and tripped in the hole to the shoe. Held a safety meeting with Trogan safety, service hands and rig crew, function tested the rig rat system.  
As soon as we entered open hole the string started taking weight as the hole had sloughed in, we picked up the Kelly and began to ream and wash into the hole.

#### Operations Next Report Period

Drill ahead

#### Remarks

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.  
Left all drill collars and surface hole equipment on E-52

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Lead Count<br>31.0         | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>16,972.00 |                 |

#### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

#### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                  | Com  |
|------------|----------|----------|--------------|-------------------------|--|
| 00:00      | 02:00    | 2.00     | 2.00         | Pressure test BOPs      | PRESSURE TESTED BOP, MANIFOLD VALVES, UPPER AND LOWER KELLY COCKS, CHOKE LINE, INSIDE BOP, STABBING VALVE AND PIPE RAMS, ANNULAR 1,400KPA LOW AND 14,000KPA HIGH HELD FOR 5MIN, NO PRESSURE DROP             |
| 02:00      | 02:30    | 0.50     | 2.50         | Test BOP                | TESTED THE CASING AND BLIND RAMS 1,400 LOW AND 12,500 HIGH, 5 MIN NO PRESSURE DROP, ACCUMULATOR TEST, STARTING PRESSURE 22,500 KPA AND REMAINING PRRESSURE AFTER ALL FUNCTIONS 11,500KPA, PUMP UP TIME 91SEC |
| 02:30      | 02:45    | 0.25     | 2.75         | Safety meeting          | SAFETY MEETING WITH BAKER TOOL HAND  |
| 02:45      | 06:00    | 3.25     | 6.00         | Pick up 3rd party tools | PICK UP RETRIEVING ASSEMBLY AND HWDP, RUN IN HOLE TO RETRIEVE THE TOP PLUG @ 336M  |
| 06:00      | 07:00    | 1.00     | 7.00         | Other                   | PICK UP KELLY TO MAKE IT UP, NEEDED THE WEIGHT OF THE STRING TO TORQUE PROPERLY INSTALL KELLY HOSE   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting          | SAFETY MEETING WITH BOTH CREWS   |
| 07:15      | 08:30    | 1.25     | 8.50         | Other                   | PUT ROLLERS ON KELLY   |
| 08:30      | 10:00    | 1.50     | 10.00        | Trip out of hole        | TRIP OUT OF HOLE WITH THE TOP PLUG   |
| 10:00      | 10:30    | 0.50     | 10.50        | Other                   | BREAK TOP PLUG AND LAY OUT   |
| 10:30      | 11:30    | 1.00     | 11.50        | Trip in hole            | TRIP IN HOLE   |
| 11:30      | 11:45    | 0.25     | 11.75        | Other                   | LATCH ONTO SECOND PLUG @ 355M, SET DOWN 3 daN AND CHAIN DOWN THE BRAKE   |
| 11:45      | 12:00    | 0.25     | 12.00        | Safety inspection       | CONDUCTED HAZARD HUNT AND DRILL OUT INSPECTION   |
| 12:00      | 12:15    | 0.25     | 12.25        | Drills/BOP, etc.        | DRILLS/BOP, DISCUSSED CREW POSITION, CHECK MANIFOLD ALIGNMENT  |
| 12:15      | 12:30    | 0.25     | 12.50        | Trip out of hole        | RELEASE BOTTOM PLUG, FLOW CHECK  |
| 12:30      | 13:15    | 0.75     | 13.25        | Trips                   | TRIP OUT OF THE HOLE WITH BOTTOM BRIDGE PLUG   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/19/2011  
Report #: 29.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 79,263  
Cum Cost to Date: 2,486,309

DFS: 30.44days

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                 | Com  |
|------------|----------|----------|--------------|------------------------|--|
| 13:15      | 14:00    | 0.75     | 14.00        | Other                  | LAY DOWN BRIDGE PLUG AND LATCH ASSEMBLY                                  |
| 14:00      | 15:00    | 1.00     | 15.00        | Slip/Cut drilling line | PRE JOB SAFETY MEETING AND SLIP/CUT DRILLING LINE                        |
| 15:00      | 15:15    | 0.25     | 15.25        | Safety meeting         | SAFETY MEETING WITH DIRECTIONAL HANDS                                    |
| 15:15      | 17:45    | 2.50     | 17.75        | Directional work       | PICK UP AND MAKE UP DIRECTIONAL TOOLS                                    |
| 17:45      | 19:00    | 1.25     | 19.00        | Trips                  | TRIP IN THE HOLE   |
| 19:00      | 19:30    | 0.50     | 19.50        | Safety meeting         | SAFETY MEETING WITH BOTH CREWS   |
| 19:30      | 20:30    | 1.00     | 20.50        | Other                  | MAKE UP LOWER KELLY COCK AND SAVER SUB, TORQUE KELLY TO UPPER KELLY COCK |
| 20:30      | 00:00    | 3.50     | 24.00        | Ream & Clean           | REAM & CLEAN FROM 363 M TO 446M  |

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 41.79               | 29,594.36                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
|                               | 1075.0                     | 34                        | 7.5                        |                       |                     |                          |

### MUD ADDITIVES

| Des     | Field Est (Cost/unit) | Consumed |
|---------|-----------------------|----------|
| CAUSTIC | 41.79                 | 1.0      |

### MUD PUMPS

|                |                   |                  |                           |
|----------------|-------------------|------------------|---------------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |                           |
| 1              |                   |                  |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |                           |
| 1              |                   | 127.0            | 800.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des          |
|-----------|----------------|--------------|
| 2/19/2011 | Safety Meeting | SLIP AND CUT |
| /20/2011  | Safety Meeting | H2S          |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/19/2011

Report #: 29.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 79,263

Cum Cost to Date: 2,486,309

DFS: 30.44days

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|------------|
|      |          |          |         |           |        |        |        |            |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Wabamun Grp        | 470.00             | 469.95                |
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/20/2011  
Report #: 30.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 51,894  
Cum Cost to Date: 2,538,203

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 31.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,333.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                       |                         |                 |
|-----------------------|-------------------------|-----------------|
| Weather<br>Light Snow | Temperature (°C)<br>-17 | Lease Condition |
|-----------------------|-------------------------|-----------------|

Operation at 6am  
Drilling the build section @ 1354m (Slave Point)

Operations Summary  
Washed and reamed in the hole from 446m to 740m, picked up singles with no kelly through the Fort Simpson, wash and reamed from 740m to 854m, picked up singles with no kelly from 854m to 1090m. Washed and reamed from that point to bottom. The hole through the start of the build was in especially rough shape. Hole loses that we experienced through the Wabamun ceased as we mixed some sawdust and cello flake, we lost nearly 40m3 through the 28 or so hours it took us to make it from the shoe to bottom.

Operations Next Report Period  
Drill ahead

Remarks  
We had a Diesel Spill yesterday, 90l of diesel was spilled onto the ice pad. The spill was contained, then cleaned up throughout the night. The spill will be reported as per protocol.

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.  
Left all drill collars and surface hole equipment on E-52

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>31.0         | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>17,716.00 |                 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                           |                                      |
|------------------|----------|----------|--------------|---------------------------|--------------------------------------|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com                                  |
| 00:00            | 05:15    | 5.25     | 5.25         | Ream & Clean              | REAM & CLEAN FROM 446M TO 740M       |
| 05:15            | 06:00    | 0.75     | 6.00         | Condition mud & circulate | CIRCULATE & MONITOR LOSSES           |
| 06:00            | 07:00    | 1.00     | 7.00         | Pick up drill pipe        | PICK UP DRILL PIPE FROM 740M TO 854M |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING WITH BOTH CREWS       |
| 07:15            | 09:30    | 2.25     | 9.50         | Pick up drill pipe        | PICK UP DRILL PIPE FROM 854M-1090M   |
| 09:30            | 12:00    | 2.50     | 12.00        | Ream & Clean              | REAM & CLEAN FROM 1090M-1177M        |
| 12:00            | 16:00    | 4.00     | 16.00        | Ream & Clean              | REAM & CLEAN FROM 1177M- 1265M       |
| 16:00            | 16:15    | 0.25     | 16.25        | Rig Service               | RIG SERVICE                          |
| 16:15            | 18:00    | 1.75     | 18.00        | Ream & Clean              | REAM & CLEAN FROM 1265M- 1284M       |
| 18:00            | 19:00    | 1.00     | 19.00        | Circulate And Condition   | CIRCULATE TO CLEAN HOLE              |
| 19:00            | 19:15    | 0.25     | 19.25        | Safety meeting            | SAFETY MEETING WITH BOTH CREWS       |
| 19:15            | 00:00    | 4.75     | 24.00        | Ream & Clean              | REAM & CLEAN FROM 1284 M TO 1327M    |

|                               |                            |                              |                            |                       |                     |                          |  |
|-------------------------------|----------------------------|------------------------------|----------------------------|-----------------------|---------------------|--------------------------|--|
| <b>MUD CHECKS</b>             |                            |                              |                            |                       |                     |                          |  |
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio              | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |  |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                     | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |  |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)    | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 1,604.39            | 31,198.75                |  |
| Depth (mKB)<br>1,285.00       | Density (kg/m³)<br>1115.0  | Funnel Viscosity (s/L)<br>45 | pH<br>8.0                  | PV Override (cp)      | YP Override (Pa)    |                          |  |

|                      |                       |          |
|----------------------|-----------------------|----------|
| <b>MUD ADDITIVES</b> |                       |          |
| Des                  | Field Est (Cost/unit) | Consumed |
| CAUSTIC              | 41.79                 | 1.0      |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/20/2011  
Report #: 30.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 51,894  
Cum Cost to Date: 2,538,203

DFS: 31.44days

### MUD ADDITIVES

| Des        | Field Est (Cost/unit) | Consumed |
|------------|-----------------------|----------|
| CELLOPHANE | 71.98                 | 3.0      |
| DRISPAC    | 198.45                | 1.0      |
| KELZAN     | 498.75                | 1.0      |
| KWIKSEAL   | 33.90                 | 3.0      |
| LIGNITE    | 15.72                 | 1.0      |
| ULTRAFLOC  | 133.01                | 4.0      |

### MUD PUMPS

| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|----------------|-------------------|---------------------------|
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   | 127.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|                |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |

### BIT SUMMARY

| Bit Run      | Bit Type                      | Size (mm) | Make              | Model              | Serial Number  | IADC Codes    |
|--------------|-------------------------------|-----------|-------------------|--------------------|----------------|---------------|
|              |                               |           |                   |                    |                |               |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) |           | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN) | Drilling Torque               | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|---------------------|-------------------------------|--------------------|----------------|
|                   |                 |                           |                     |                               |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             |                     | Slack-Off String Weight (daN) | Drilling Time (hr) |                |

### SAFETY CHECKS

| Date      | Type           | Des            |
|-----------|----------------|----------------|
| 2/20/2011 | Safety Meeting | HOUSEKEEPING   |
| 2/21/2011 | Safety Meeting | MIXING CAUSTIC |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|-----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 2/21/2011 | 1,326.35 | 27.90    | 169.90  | 1,323.19  | 2.28   | 2.78   | -2.24  | 5.51        |
| 2/21/2011 | 1,335.99 | 27.90    | 171.00  | 1,331.71  | -2.17  | 3.53   | 2.22   | 1.60        |
| 2/21/2011 | 1,345.61 | 28.90    | 174.00  | 1,340.05  | -6.87  | 4.49   | 6.92   | 143.16      |
| 2/21/2011 | 1,355.01 | 31.30    | 177.30  | 1,347.99  | -11.79 | 5.41   | 11.86  | 277.31      |
| 2/21/2011 | 1,364.21 | 34.30    | 177.60  | 1,355.73  | -16.77 | 5.63   | 16.84  | 9.80        |

### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
| Vabamun Grp    | 470.00             | 469.95                |
| t Simpson      | 719.00             | 718.85                |
| Twin Falls     | 830.00             | 829.84                |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/20/2011

Report #: 30.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 51,894

Cum Cost to Date: 2,538,203

DFS: 31.44days

#### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |





# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/21/2011  
Report #: 31.0  
Depth Progress: 83.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 81,585  
Cum Cost to Date: 2,619,788

|                                  |  |                                       |                   |                                      |
|----------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     | Rig Release Date<br>3/21/2011 12:00            |                                       | DFS: 32.44days    |                                      |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

## Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,416.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                                |                         |                 |
|--------------------------------|-------------------------|-----------------|
| Weather<br>Clear, wind 20k NNW | Temperature (°C)<br>-24 | Lease Condition |
|--------------------------------|-------------------------|-----------------|

Operation at 6am  
Tripping out at 1424m, due to no diff pressure, significant table torque

### Operations Summary

Reamed and cleaned to bottom from 1327m with 48m of fill the bottom section was in poor shape. Conducted B.O.P and sour drill, Orientated tool and drilled ahead from 1333-1416m with good hole conditions with R.O.P of 2-5m/hour. Bentonite content increased to 150kg/m3+, controlled with desco and water. Drilled ahead to 1424m and circulated hole clean ready to trip bit. Pulled off bottom pulling 6daN over string weight. Pason torque sensor not working.

### Operations Next Report Period

Trip out, inspect motor and bit, trip in and resume drilling @ 1424m md

### Remarks

Hauled 1 full load of cutting to CCS.  
INAC was out to perform their weekly inspections, they inspected the cuttings storage area and looked over the site of the cleaned up diesel spill. Crews conducted pack up drills and completed fit testing. Fire drill held in camp  
Neufeld delivered 25,241.6 liters of fuel  
Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.  
The incinerator that was backhauled on the rig move was taken back to Ketek.

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>31.0         | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>18,460.00 |                 |

## DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2           | Com   |
|------------|----------|----------|--------------|------------------|---|
| 00:00      | 00:45    | 0.75     | 0.75         | Ream & Clean     | REAM & CLEAN FROM 1327M TO 1333M  |
| 00:45      | 01:00    | 0.25     | 1.00         | Drills/BOP, etc. | BOP DRILL WITH RIG CREW, WELL SECURE IN 90 SECONDS, DISCUSSED KICK WARNING SIGNS, CREW POSITIONS, DAILY CHECKS OF SURFACE EQUIPMENT |
| 01:00      | 05:00    | 4.00     | 5.00         | Drill            | DRILL 222 MM HOLE FROM 1333M TO 1351M   |
| 05:00      | 05:15    | 0.25     | 5.25         | Rig Service      | RIG SERVICE FUNCTION PIPE RAMS 3 SEC TO CLOSE   |
| 05:15      | 07:00    | 1.75     | 7.00         | Drill            | DRILL 222 MM HOLE FROM 1351M TO 1358M   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting   | SAFETY MEETING WITH CREWS   |
| 07:15      | 10:00    | 2.75     | 10.00        | Drill            | DRILL 222MM HOLE 1358M- 1370M   |
| 10:00      | 10:15    | 0.25     | 10.25        | Other            | LEVEL RIG   |
| 10:15      | 12:00    | 1.75     | 12.00        | Drill            | DRILL 222MM HOLE FROM 1370M- 1379M  |
| 12:00      | 14:15    | 2.25     | 14.25        | Drill            | DRILL 222MM HOLE FROM 1379M- 1388M  |
| 14:15      | 14:30    | 0.25     | 14.50        | Rig Service      | RIG SERVICE, FUNCTION THE ANNULAR   |
| 14:30      | 19:00    | 4.50     | 19.00        | Drill            | DRILL 222MM HOLE FROM 1388M- 1402M  |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting   | SAFETY MEETING WITH BOTH CREWS  |
| 19:15      | 23:15    | 4.00     | 23.25        | Drill            | DRILL 222MM HOLE FROM 1402M TO 1416M  |
| 23:15      | 00:00    | 0.75     | 24.00        | Deviation survey | ACCUMILATED SURVEY TIME   |

## MUD CHECKS

|                               |                            |                              |                            |                       |                    |                         |
|-------------------------------|----------------------------|------------------------------|----------------------------|-----------------------|--------------------|-------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio              | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)       | Potassium (mg/L)        |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                     | Solids (%)                 | Temp Bottom Hole (°C) | HHP Pressure (kPa) | HHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)    | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 3,915.09           | 35,113.84               |
| Depth (mKB)<br>1,412.00       | Density (kg/m³)<br>1100.0  | Funnel Viscosity (s/L)<br>62 | pH<br>10.0                 | PV Override (cp)      | YP Override (Pa)   |                         |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/21/2011

Report #: 31.0

Depth Progress: 83.00

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 81,585

Cum Cost to Date: 2,619,788

DFS: 32.44days

#### MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| CAUSTIC   | 41.79                 | 4.0      |
| CAUSTIC   | 41.79                 | 3.0      |
| KELZAN    | 498.75                | 3.0      |
| KELZAN    | 498.75                | 1.0      |
| LIGNITE   | 15.72                 | 2.0      |
| ULTRAFLOC | 133.01                | 6.0      |
| ULTRAFLOC | 133.01                | 6.0      |

#### MUD PUMPS

| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|----------------|-------------------|---------------------------|
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   | 127.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|                |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |

#### BIT SUMMARY

| Bit Run        | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes      |
|----------------|----------------|-----------------|-------------------|--------------------|----------------|-----------------|
| 4RR            | Bit            | 222.0           | REED              | R20AMP             | W30040         | 517             |
| Nozzles (mm)   | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull   |
| 14.3/14.3/14.3 | 1,333.00       | 1,424.00        | 91.00             | 24.50              | 3.7            | 0-0-?-?-?-?-DFM |

#### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.61    | 1,414.47    |
| Drill pipe - Stands  |         |         | 42  | 799.34  | 1,404.86    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 54  | 505.23  | 605.52      |
| JARS-HYD/MECH        | 59.0    | 121.0   | 1   | 5.60    | 100.29      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 6   | 56.28   | 94.69       |
| X/O                  | 69.0    | 160.0   | 1   | 0.67    | 38.41       |
| MONEL FLEX           | 76.0    | 161.0   | 1   | 9.45    | 37.74       |
| MONEL FLEX           | 76.0    | 161.0   | 1   | 8.67    | 28.29       |
| MONEL FLEX           | 81.0    | 159.0   | 1   | 9.07    | 19.62       |
| ORIENT SUB           | 64.0    | 164.0   | 1   | 1.00    | 10.55       |
| FLOAT SUB            | 64.0    | 165.0   | 1   | 1.11    | 9.55        |
| MOTOR LS             | 64.0    | 102.0   | 1   | 8.19    | 8.44        |

#### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| 1,333.00          | 1,379.00        |                           | 12,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
|                   | 35              |                           | 35                            | 10.00              |                    |                |
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 1,379.00          | 1,416.00        |                           | 18,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
|                   | 35              |                           | 35                            | 10.75              |                    |                |

#### SAFETY CHECKS

| Date      | Type           | Des                  |
|-----------|----------------|----------------------|
| 2/21/2011 | Safety Meeting | TRAPPED TABLE TORQUE |
| 2/22/2011 | Safety Meeting | HAND TOOLS           |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/21/2011  
Report #: 31.0  
Depth Progress: 83.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 81,585  
Cum Cost to Date: 2,619,788

DFS: 32.44days

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|-----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 2/21/2011 | 1,373.40 | 37.60    | 177.80  | 1,362.71  | -22.54 | 7.11   | 22.63  | 13838.86    |
| 2/21/2011 | 1,382.59 | 41.50    | 177.30  | 1,369.54  | -28.61 | 7.99   | 28.71  | 2423.96     |
| 2/21/2011 | 1,392.22 | 45.40    | 175.90  | 1,376.26  | -35.43 | 8.92   | 35.54  | 1728.15     |

#### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |
| Slave Point Fm     | 1,353.00           | 1,346.33              |
| F4 Marker          | 1,412.00           | 1,388.48              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling**

**Report For: 2/22/2011  
Report #: 32.0  
Depth Progress: 8.00**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 59,417  
Cum Cost to Date: 2,679,205**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 33.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,416.00 | End Depth (mKB)<br>1,424.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                                  |                         |                 |
|----------------------------------|-------------------------|-----------------|
| Weather<br>25 with a 50k/hr wind | Temperature (°C)<br>-23 | Lease Condition |
|----------------------------------|-------------------------|-----------------|

Operation at 6am  
Tripping in with the over shot to fish mud motor and bit

**Operations Summary**  
Drilled the build section from 1416m to 1424m. After completing a slide at 1424m the drill string was picked of bottom and a 2000kpa pressure drop was noted. We kicked in the rotary table and proceeded to bottom, table torque was very high and there was no differential pressure, this was confirmed through several attempts to make it to bottom. Circulated a bottoms up and tripped out to have a look at the mud motor and bit. When we pulled the motor through the table, the float sub and dump sub were the only sections of the motor attached. This section totalled .78 of a meter in length. The connection between the dump sub and rotor catch connection failed. We broke off and laid down the portion of the motor. We made up a re-run 222mm 447 bit, bit sub and cross over and tripped in to clean out and polish the fish. Washed through a bridge at 580m, the rest of the hole was in good shape. Washed in from 1357m to the top of the fish. Tagged the top of the motor/fish at 1416.84m, projected inclination at bottom is 55 deg. Rotated slowly above the fish and slowly applied weight to polish off the top of the failed connection. Circulated a bottoms up, pumped a pill and tripped out to make up fishing tools. Bentonite content increased to 185kg/m3, controlling with desco and dilution.

**Operations Next Report Period**  
Recover the fish, make up new mud motor and assembly drill ahead

**Remarks**  
One Walking floor trailer load of sawdust delivered, some additional road radios and radio booster antenna were delivered to increase radio range for both security trailers. The items were dropped off with the load of dry mud product that was delivered.  
Changed out the pason computer (DHC) second one this season  
Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>31.0         | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>19,204.00 |                 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com   |
|------------|----------|----------|--------------|---------------------------|---|
| 00:00      | 03:45    | 3.75     | 3.75         | Drill                     | DRILL FROM 1416M TO 1424M   |
| 03:45      | 04:15    | 0.50     | 4.25         | Condition mud & circulate | CIRCULATE BOTTOMS UP  |
| 04:15      | 07:00    | 2.75     | 7.00         | Trip out of hole          | TRIP OUT OF HOLE FROM 1424M TO 997M, FLOW CHECKS @ 1414M, 1281M             |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING WITH BOTH CREWS  |
| 07:15      | 10:15    | 3.00     | 10.25        | Trip out of hole          | TRIP OUT OF HOLE FROM 997M-19M, LAID DOWN THE JARS                          |
| 10:15      | 10:30    | 0.25     | 10.50        | Safety meeting            | PRE JOB SAFETY MEETING WITH DIRECTIONAL HANDS                               |
| 10:30      | 11:30    | 1.00     | 11.50        | Directional work          | THE MUD MOTOR CAME THROUGH THE TABLE MISSING EVERYTHING BELOW THE DUMP SUB  |
| 11:30      | 12:00    | 0.50     | 12.00        | W/O Orders                | W/O ORDERS F.T. PIPE, AND BLIND RAMS 3 SECS EACH TO CLOSE                   |
| 12:00      | 13:30    | 1.50     | 13.50        | Fishing                   | CLEAN UP THE DRILL FLOOR, GET BIT SUB CROSS OVERS AND BIT UP TO THE FLOOR   |
| 13:30      | 19:00    | 5.50     | 19.00        | Fishing                   | RUN IN HOLE TO CONFIRM FISH DEPTH AND CLEAN THE HOLE FROM 0M-1357M          |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting            | SAFETY MEETING WITH BOTH CREWS  |
| 19:15      | 20:45    | 1.50     | 20.75        | Fishing                   | WASH FROM 1357M TO 1416 AND POLISH TOP OF FISH @ 1416.84                    |
| 20:45      | 21:30    | 0.75     | 21.50        | Condition mud & circulate | CIRCULATE HOLE CLEAN AND MIX A PILL   |
| 21:30      | 00:00    | 2.50     | 24.00        | Fishing                   | PULL OUT OF HOLE TO PICK UP FISHING TOOLS FLOW CHECKS @ 1407M, 1360M, 711M, |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/22/2011  
Report #: 32.0  
Depth Progress: 8.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 59,417  
Cum Cost to Date: 2,679,205

DFS: 33.44days

#### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| 6.0                           |                            |                           | 400.000                    | 100.000               |                     |                          |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
|                               | 1163000.0                  |                           |                            |                       |                     |                          |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |
|                               |                            |                           | 1,932.99                   | 37,046.83             |                     |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
| 1,407.00                      | 1060.0                     | 6,048                     | 8.5                        | 13.0                  | 4.309               |                          |

#### MUD ADDITIVES

| Des     | Field Est (Cost/unit) | Consumed |
|---------|-----------------------|----------|
| BARITE  | 22.31                 | 45.0     |
| BARITE  | 22.31                 | 30.0     |
| CAUSTIC | 41.79                 | 2.0      |
| DESCO   | 80.22                 | 1.0      |
| DESCO   | 80.22                 | 1.0      |
| LIGNITE | 15.72                 | 1.0      |

#### MUD PUMPS

|                |                   |                  |
|----------------|-------------------|------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| 1              |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
|                |                   | 800.0            |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
|                |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |

#### BIT SUMMARY

|                |                |                 |                   |                    |                |                 |
|----------------|----------------|-----------------|-------------------|--------------------|----------------|-----------------|
| Bit Run        | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes      |
| 4RR            | Bit            | 222.0           | REED              | R20AMP             | W30040         | 517             |
| Nozzles (mm)   | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull   |
| 14.3/14.3/14.3 | 1,333.00       | 1,424.00        | 91.00             | 24.50              | 3.7            | 0-0-?-?-?-?-DFM |

#### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.61    | 1,414.47    |
| Drill pipe - Stands  |         |         | 42  | 799.34  | 1,404.86    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 54  | 505.23  | 605.52      |
| JARS-HYD/MECH        | 59.0    | 121.0   | 1   | 5.60    | 100.29      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 6   | 56.28   | 94.69       |
| X/O                  | 69.0    | 160.0   | 1   | 0.67    | 38.41       |
| MONEL FLEX           | 76.0    | 161.0   | 1   | 9.45    | 37.74       |
| MONEL FLEX           | 76.0    | 161.0   | 1   | 8.67    | 28.29       |
| MONEL FLEX           | 81.0    | 159.0   | 1   | 9.07    | 19.62       |
| ORIENT SUB           | 64.0    | 164.0   | 1   | 1.00    | 10.55       |
| FLOAT SUB            | 64.0    | 165.0   | 1   | 1.11    | 9.55        |
| MOTOR LS             | 64.0    | 102.0   | 1   | 8.19    | 8.44        |

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 1,416.00          | 1,424.00        |                           | 30,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 40                | 40              | 40                        |                               | 3.75               |                    |                |

#### SAFETY CHECKS

| Date      | Type           | Des                   |
|-----------|----------------|-----------------------|
| 2/23/2011 | Safety Meeting | MAKE UP FISHING TOOLS |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/22/2011

Report #: 32.0

Depth Progress: 8.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 59,417

Cum Cost to Date: 2,679,205

DFS: 33.44days

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |
| Slave Point Fm     | 1,353.00           | 1,346.33              |
| F4 Marker          | 1,412.00           | 1,388.48              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/23/2011  
Report #: 33.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 52,407  
Cum Cost to Date: 2,731,611

|                                  |  |                                       |                   |                                      |
|----------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UMI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     | Rig Release Date<br>3/21/2011 12:00            |                                       | DFS: 34.44days    |                                      |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>1,424.00 | End Depth (mKB)<br>1,424.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                       |                         |                 |
|-----------------------|-------------------------|-----------------|
| Weather<br>Light Snow | Temperature (°C)<br>-26 | Lease Condition |
|-----------------------|-------------------------|-----------------|

Operation at 6am  
Tripping out with the Mill

Operations Summary  
Completed the clean out trip, laid down the bit and bit sub, made up Weatherfords M-9863 series 150 overshot with a 156.1mm spiral grapple. Tripped in and washed in the last single above the top of the fish. Washed down then worked the overshot onto the fish. Pulled 20 daN over string weight, firing the jars once. Tripped out of the hole. The mud motor was not recovered. The Grapple control was broken and the overshot was slightly edged. Weatherford has no other overshot on location. Tripped in with a flat bottom mill, the hole was in good condition on the way in. Fishing tools hot shot from Grande Prairie.

Operations Next Report Period  
Fish

Remarks  
Pason computer was out again today to change out and repair radios and roto torque sensors.

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                    |                                      |   |
|--------------------|--------------------------------------|---|
| Head Count<br>31.0 | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>19,948.00 |
|--------------------|--------------------------------------|---|

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

**TIME LOG SUMMARY**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                         | Com   |
|------------|----------|----------|--------------|--------------------------------|---|
| 00:00      | 01:30    | 1.50     | 1.50         | Fishing                        | PULL OUT OF HOLE FOR FISHING TOOLS, FLOW CHECK OUT OF HOLE                                  |
| 01:30      | 02:00    | 0.50     | 2.00         | Clean - floor / Pump / screens | CLEAN - FLOOR   |
| 02:00      | 02:15    | 0.25     | 2.25         | Safety meeting                 | SAFETY MEETING WITH FISHERMAN AND CREW  |
| 02:15      | 07:00    | 4.75     | 7.00         | Fishing                        | PICK UP/ MAKE UP FISHING TOOLS AND RUN IN HOLE FROM SURFACE TO 1248M                        |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting                 | SAFETY MEETING WITH BOTH CREWS  |
| 07:15      | 10:00    | 2.75     | 10.00        | Fishing                        | TRIP PIPE IN FROM 1248M TO 1414M WAIT FOR BOTTOMS UP. (FISHING)                             |
| 10:00      | 12:00    | 2.00     | 12.00        | Fishing                        | LATCH ON TO FISH AND TRIP OUT OF THE HOLE FROM 1416M-1196M                                  |
| 12:00      | 16:45    | 4.75     | 16.75        | Fishing                        | (FISHING) CONTINUE TO TRIP PIPE OUT OF HOLE 1196M TO SURFACE, NO FISH IN GRAPPLE,           |
| 16:45      | 18:00    | 1.25     | 18.00        | W/O Orders                     | W/O ORDERS F.T. BLIND AND PIPE RAMS, CLEAN AND PREPARE FLOOR,                               |
| 18:00      | 18:45    | 0.75     | 18.75        | Rig Repair                     | RIG REPAIR/ REPLACE QUICK RELEASE ON HOISTING CLUTCH  |
| 18:45      | 19:00    | 0.25     | 19.00        | Safety meeting                 | SAFETY MEETING PRETOUR  |
| 19:00      | 23:45    | 4.75     | 23.75        | Fishing                        | FISHING MAKE UP MILLING TOOLS AND RUN IN HOLE FROM SURFACE TO 1376M FILL PIPE @ 570M, 1200M |
| 23:45      | 00:00    | 0.25     | 24.00        | Rig Service                    | RIG SERVICE   |

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| <b>MUD CHECKS</b>             |                            |                           |                            |                       |                     |                          |
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/23/2011  
Report #: 33.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 52,407  
Cum Cost to Date: 2,731,611

DFS: 34.44days

### MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| BARITE    | 22.31                 | 21.0     |
| ULTRAFLOC | 133.01                | 1.0      |

### MUD PUMPS

| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|----------------|-------------------|---------------------------|
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   | 127.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|                |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |

### BIT SUMMARY

| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des          |
|-----------|----------------|--------------|
| 2/23/2011 | Safety Meeting | COLD WEATHER |
| 2/24/2011 | Safety Meeting | MILLING      |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |
| Slave Point Fm     | 1,353.00           | 1,346.33              |
| F4 Marker          | 1,412.00           | 1,388.48              |





## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling**

**Report For: 2/24/2011  
Report #: 34.0  
Depth Progress: 0.00**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 63,575  
Cum Cost to Date: 2,795,186**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWV<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 35.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|  |                                      |   |                                |
|--|--------------------------------------|---|--------------------------------|
| <b>Daily Operations</b>  |                                      |   |                                |
| Start Depth (mKB)<br>1,424.00  | End Depth (mKB)<br>1,424.00          | Target Formation<br>Sulphur Point           | Target Depth (mKB)<br>2,534.00 |
| Weather<br>Wind  | Temperature (°C)<br>-14              | Lease Condition                             |                                |
| Operation at 6am<br>Waiting on new fishing tools   |                                      |   |                                |
| Operations Summary<br>Completed the trip in with the mill, dressed the top of the fish, tripped out to pick up new overshot and grapple. Tripped in with new fishing assembly, filled pipe at the casing shoe and at KOP. Washed the last 5 singles down to bottom. Worked on the fish for 4 hours with no positive results, the tools we had in the hole were not able to pull the fish off the side of the well. Washover pipe with an internal grapple were mobilized with Grande Prairie along with a second fisherman. Started the trip out to change fishing assembly. |                                      |   |                                |
| Operations Next Report Period<br>Recover the mud motor, make up directional tools  |                                      |   |                                |
| Remarks<br>We had a 2m3 spill early yesterday morning, 2m3 of drilling fluid were spilled out of the shale containment bin. All of the fluid was recovered off the ice pad. The spill was reported to Paramount and the NWT Spill line.  |                                      |   |                                |
| Took delivery of 7,200l litres of diesel, one load of cuttings hauled to CCS<br>Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.  |                                      |   |                                |
| Avg Connection Gas (Units)   | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units)                |
| Lead Count<br>31.0   | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>20,692.00 |                                |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                           |   |
|------------------|----------|----------|--------------|---------------------------|---|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com   |
| 00:00            | 01:15    | 1.25     | 1.25         | Fishing                   | RUN IN HOLE FROM 1376M TO 1416M   |
| 01:15            | 02:45    | 1.50     | 2.75         | Fishing                   | DRESS TOP OF FISH WITH MILL   |
| 02:45            | 03:45    | 1.00     | 3.75         | Condition mud & circulate | CIRCULATE, MIX PILL AND CLEAN FLOOR   |
| 03:45            | 07:00    | 3.25     | 7.00         | Fishing                   | TRIP OUT OF HOLE WITH MILL TOOLS TO PICK UP OVER SHOT FLOW CHECKS @ 1406M, 1325M, 766M 560M   |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING WITH BOTH CREWS  |
| 07:15            | 09:30    | 2.25     | 9.50         | Fishing                   | (FISHING) CONTINUE TO TRIP PIPE OUT OF HOLE WITH MILLING TOOL FROM 546M-0M AND BREAK OFF MILLING TOOL, CLEAN AND PREPARE FLOOR TO RIH WITH OVER SHOT AND GRAPPLE. |
| 09:30            | 12:00    | 2.50     | 12.00        | Fishing                   | (FISHING) MAKE UP OVER SHOT AND GRAPPLE RUN IN FROM 0M- 567M FILL PIPE @ 355M   |
| 12:00            | 17:00    | 5.00     | 17.00        | Fishing                   | (FISHING) CONTINUE TO RUN IN HOLE FROM 567M- FILL PIPE @1214M, KELLY UP @1347M AND REAM LAST 5 SINGLES TO BOTTOM AND TRY TO LATCH ONTO FISH                       |
| 17:00            | 19:00    | 2.00     | 19.00        | Fishing                   | TRY TO LATCH ONTO FISH  |
| 19:00            | 19:15    | 0.25     | 19.25        | Safety meeting            | SAFETY MEETING WITH BOTH CREWS  |
| 19:15            | 21:00    | 1.75     | 21.00        | Fishing                   | TRY TO LATCH FISH. UNABLE TO GET ON TO IT   |
| 21:00            | 22:30    | 1.50     | 22.50        | Condition mud & circulate | CIRCULATE AND CONDITON MUD PRIOR TO TRIP OUT OF HOLE TO CHANGE FISHING ASSEMBLY   |
| 22:30            | 00:00    | 1.50     | 24.00        | Fishing                   | TRIP OUT OF HOLE TO CHANGE FISHING ASSEMBLY FLOW CHECKS @1408M, 1360M   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/24/2011  
Report #: 34.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 63,575  
Cum Cost to Date: 2,795,186

DFS: 35.44days

### MUD CHECKS

|                               |          |                            |           |                           |       |                            |         |                       |         |                     |          |                          |           |
|-------------------------------|----------|----------------------------|-----------|---------------------------|-------|----------------------------|---------|-----------------------|---------|---------------------|----------|--------------------------|-----------|
| Low Gravity Solids (%)        | 6.0      | MBT (kg/m³)                |           | Oil Water Ratio           |       | Chlorides (mg/L)           | 400.000 | Calcium (mg/L)        | 100.000 | Lime (kg/m³)        |          | Potassium (mg/L)         |           |
| Electric Stab (V)             |          | ECD - Manual Entry (kg/m³) | 1163000.0 | Sand (%)                  |       | Solids (%)                 |         | Temp Bottom Hole (°C) |         | HTHP Pressure (kPa) |          | HTHP Filtrate (mL/30min) |           |
| Active Mud Volume (Surf) (m³) |          | Mud Lost to Hole (m³)      |           | Cum Mud Lost to Hole (m³) |       | Daily Mud Field Est (Cost) |         |                       |         |                     | 6,975.12 | Cum Mud Field Est...     | 44,623.47 |
| Depth (mKB)                   | 1,407.00 | Density (kg/m³)            | 1060.0    | Funnel Viscosity (s/L)    | 6,048 | pH                         | 8.5     | PV Override (cp)      | 13.0    | YP Override (Pa)    |          |                          | 4.309     |

### MUD ADDITIVES

| Des         | Field Est (Cost/unit) | Consumed |
|-------------|-----------------------|----------|
| BARITE      | 22.31                 | 22.0     |
| BARITE      | 22.31                 | 30.0     |
| CAUSTIC     | 41.79                 | 2.0      |
| INHIBIDRILL | 133.01                | 19.0     |
| KELZAN      | 498.75                | 5.0      |
| SAWDUST     | 6.64                  | 107.0    |

### MUD PUMPS

|                           |    |                   |       |                  |       |
|---------------------------|----|-------------------|-------|------------------|-------|
| Pump Number               | 1  | Rod Diameter (mm) |       | Pump Rating (kW) |       |
| Pressure (kPa)            |    | Slow Speed Check? |       | Strokes (spm)    |       |
| Volumetric Efficiency (%) |    |                   |       |                  |       |
| Pump Number               | 11 | Rod Diameter (mm) | 127.0 | Pump Rating (kW) | 800.0 |
| Pressure (kPa)            |    | Slow Speed Check? |       | Strokes (spm)    |       |
| Volumetric Efficiency (%) |    |                   |       |                  |       |
| Pump Number               |    | Rod Diameter (mm) |       | Pump Rating (kW) |       |
| Pressure (kPa)            |    | Slow Speed Check? |       | Strokes (spm)    |       |
| Volumetric Efficiency (%) |    |                   |       |                  |       |

### BIT SUMMARY

|              |                |                 |                   |                    |                |               |
|--------------|----------------|-----------------|-------------------|--------------------|----------------|---------------|
| Bit Run      | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes    |
| Nozzles (mm) | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des      |
|-----------|----------------|----------|
| 2/25/2011 | Safety Meeting | TRIPPING |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

|          |         |         |                 |                 |                 |
|----------|---------|---------|-----------------|-----------------|-----------------|
| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|          |         |         |                 |                 |                 |

### SURVEY DATA

|      |          |          |         |           |        |        |        |             |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

|                |                    |                       |
|----------------|--------------------|-----------------------|
| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
| Ft Simpson     | 719.00             | 718.85                |



**Daily Drilling**

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/24/2011

Report #: 34.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 63,575

Cum Cost to Date: 2,795,186

DFS: 35.44days

**FORMATIONS**

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |
| Slave Point Fm     | 1,353.00           | 1,346.33              |
| F4 Marker          | 1,412.00           | 1,388.48              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/25/2011

Report #: 35.0

Depth Progress: 0.00

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 66,386

Cum Cost to Date: 2,861,572

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 36.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>1,424.00 | End Depth (mKB)<br>1,424.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                     |                         |                 |
|---------------------|-------------------------|-----------------|
| Weather<br>Wind 40k | Temperature (°C)<br>-17 | Lease Condition |
|---------------------|-------------------------|-----------------|

Operation at 8am  
Washing over the fish

Operations Summary  
Tripped out the overshot and spiral grapple. We were unable to get over top of the mud motor and attach the grapple assembly. Made up washover pipe and grapple combo and tripped in the hole to retrieve the fish Reamed and washed from 1351m to 1398m, the hole did not repond well to the washover pipe assembly. High torque, and overpull were a constant trying to get to the fish top.

Operations Next Report Period  
Run washover and grapple assembly to latch the fish

Remarks  
Paramout and NEB representatives held a Rollout meeting, reviewed the background on the NEB order, stop work policy, revised drug and alcohol policy, hazard id assessment control the roles and responsibilities flow chart and road traffic check-in and check-out procedures. All topics were discussed and documented in a safety meeting with all drilling related personnel.

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                    |                                      |   |
|--------------------|--------------------------------------|---|
| Head Count<br>33.0 | Personnel Total Hours (hr)<br>792.00 | Cum Personnel Total Hours (hr)<br>21,484.00 |
|--------------------|--------------------------------------|---|

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com  |
|------------|----------|----------|--------------|---------------------------|--|
| 00:00      | 03:15    | 3.25     | 3.25         | Fishing                   | TRIP OUT HOLE HOLE TO LAY DOWN FISHING TOOLS FROM 1128M TO SURFACE FLOW CHECKS @ 675M,249M AND OUT OF HOLE         |
| 03:15      | 03:45    | 0.50     | 3.75         | Rig Service               | RIG SERVICE  |
| 03:45      | 07:00    | 3.25     | 7.00         | Other                     | CLEAN AND ORGANIZE DRILL FLOOR, DE-ICE MUD TANKS,  |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING WITH BOTH CREWS   |
| 07:15      | 10:00    | 2.75     | 10.00        | W/O Third Party Tools     | W/O FISHERMAN AND TOOLS. DE-ICE RIG FOOR AND PRE FABs, RECALIBRATE TANK VOLUMES                                    |
| 10:00      | 10:15    | 0.25     | 10.25        | Safety meeting            | SAFETY MEETING WITH CREW AND WEATHERFORD FISHERMAN   |
| 10:15      | 12:00    | 1.75     | 12.00        | Fishing                   | (FISHING) MAKE UP FISHING TOOLS  |
| 12:00      | 18:15    | 6.25     | 18.25        | Fishing                   | (FISHING) RUN IN HOLE WITH FISHING TOOLS FILL PIPE @364M, FLOW CHECK @743M FILL PIPE @1244M WORK TIGHT SPOT @1351M |
| 18:15      | 19:00    | 0.75     | 19.00        | Condition mud & circulate | CONDITION MUD & CIRCULATE, INCREASED VISCOSITY FROM 42 TO 50   |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting            | SAFETY MEETING WITH BOTH CREWS   |
| 19:15      | 00:00    | 4.75     | 24.00        | Fishing                   | REAM & WASH TO BOTTOM FROM 1351M TO 1398M  |

### MUD CHECKS

|                               |   |                                 |                             |  |                                   |                          |
|-------------------------------|---|---------------------------------|-----------------------------|--|-----------------------------------|--------------------------|
| Low Gravity Solids (%)<br>6.0 | MBT (kg/m³)                             | Oil Water Ratio                 | Chlorides (mg/L)<br>400.000 | Calcium (mg/L)<br>100.000              | Lime (kg/m³)                      | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³)<br>1163000.0 | Sand (%)                        | Solids (%)                  | Temp Bottom Hole (°C)                  | HTHP Pressure (kPa)               | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)                   | Cum Mud Lost to Hole (m³)       |                             | Daily Mud Field Est (Cost)<br>2,621.37 | Cum Mud Field Est...<br>47,244.84 |                          |
| Depth (mKB)<br>1,407.00       | Density (kg/m³)<br>1060.0               | Funnel Viscosity (s/L)<br>3,888 | pH<br>9.0                   | PV Override (cp)<br>13.0               | YP Override (Pa)<br>4.309         |                          |

### MUD ADDITIVES

| Des     | Field Est (Cost/unit) | Consumed |
|---------|-----------------------|----------|
| CAUSTIC | 41.79                 | 2.0      |
| DRISPAC | 198.45                | 3.0      |
| KELZAN  | 498.75                | 3.0      |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/25/2011  
 Report #: 35.0  
 Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 66,386  
 Cum Cost to Date: 2,861,572

DFS: 36.44days

### MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| LIGNITE   | 15.72                 | 3.0      |
| ULTRAFLOC | 133.01                | 3.0      |

### MUD PUMPS

| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|----------------|-------------------|---------------------------|
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              | 127.0             | 800.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|                |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |

### BIT SUMMARY

| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
|              |                               |                   |                    |                |               |            |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |
|              |                               |                   |                    |                |               |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
|                   |                 |                           |                               |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
|                   |                 |                           |                               |                    |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des                       |
|-----------|----------------|---------------------------|
| 2/25/2011 | Safety Meeting | PINCH POINTS ON THE FLOOR |
| 2/26/2011 | Safety Meeting | JARRING                   |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |
| Slave Point Fm     | 1,353.00           | 1,346.33              |
| F4 Marker          | 1,412.00           | 1,388.48              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 2/26/2011  
Report #: 36.0  
Depth Progress: 0.00**

**Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 50,656  
Cum Cost to Date: 2,912,228**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UMI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 37.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,424.00 | End Depth (mKB)<br>1,424.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|   |                         |                 |
|---|-------------------------|-----------------|
| Weather<br>20 below wind was gusting to 50k | Temperature (°C)<br>-28 | Lease Condition |
|---|-------------------------|-----------------|

Operation at 6am  
Tripping out overshot, BJ services on route

#### Operations Summary

Washed and reamed 1398m to the top of the fish to 1416m the hole did not repond well to the washover pipe assembly. High torque, and overpull were a constant trying to get to the fish top, the difficulties started at 1351m at 30 degrees inc.

Washed over the fish top and latched onto it. Worked and pulled it free, pulled 95daN 43 over string weight, at that point the string weight instantly dropped off and we lost the fish. Attempted to relatch unsuccessfully. Tripped out to inspect tools and run overshot and grapple again, as the BJ cementing skid crew was on another job and could not travel to location until the 27th

The spiral grapple was worn on the bottom from rotating onto the fish top, scarring and wear marks confirmed that the fish was indeed inside the grapple.

Made up overshot and grapple and tripped back in the hole to the casing shoe, filled pipe and conducted the crew change hadover meeting, reviewed the JSA's on slip and cut. Slip and cut extra line as per wear indications. While in the hole, one of the rigs hydraulic lines cracked and needed to be changed out. The rig was down for 1.50 hours while the hose was changed.  
Tripped in to 1290m

#### Operations Next Report Period

Lay down fishing tools, trip in oper ended and plug back

#### Remarks

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
|                            |                                      |   |                 |
| Lead Count<br>34.0         | Personnel Total Hours (hr)<br>816.00 | Cum Personnel Total Hours (hr)<br>22,300.00 |                 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                 | Com  |
|------------|----------|----------|--------------|------------------------|--|
| 00:00      | 03:00    | 3.00     | 3.00         | Fishing                | WASH AND REAM FROM 1398M TO 1416M  |
| 03:00      | 07:00    | 4.00     | 7.00         | Fishing                | WASH DOWN TOP OF FISH FROM 1416M TO 1417M  |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting         | SAFETY MEETING WITH BOTH CREWS   |
| 07:15      | 10:30    | 3.25     | 10.50        | Fishing                | (FISHING) ROTATE WASH OVER FISH, TRY TO LATCH ONTO FISH  |
| 10:30      | 12:00    | 1.50     | 12.00        | Fishing                | (FISHING)CIRCULATE 8 SINGLES OUT, THEN PULL PIPE OUT OF HOLE FROM 1418M-1230M                        |
| 12:00      | 16:30    | 4.50     | 16.50        | Fishing                | (FISHING) TRIP PIE OUT FROM 1230M TO SURFACE, NO FISH.   |
| 16:30      | 17:00    | 0.50     | 17.00        | Other                  | CLEAN AND PREPARE FLOOR TO RUN IN HOLE   |
| 17:00      | 19:00    | 2.00     | 19.00        | Fishing                | (FISHING) MAKE UP FISHING TOOL,S AND RUN IN TO 345M  |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting         | SAFETY MEETING WITH BOTH CREWS   |
| 19:15      | 19:30    | 0.25     | 19.50        | Safety meeting         | SAFETY MEETING PRIOR TO SLIP AND CUT DRILL LINE  |
| 19:30      | 20:45    | 1.25     | 20.75        | Slip/Cut drilling line | SLIP/CUT DRILLING LINE SLIP EXTRA LINE DUE TO EXCESS WEAR ON LINE AND SET UP BRAKES, SET CROWN SAVER |
| 20:45      | 22:00    | 1.25     | 22.00        | Fishing                | ( FISHING) TRIP IN HOLE FROM 345M TO 898M  |
| 22:00      | 23:30    | 1.50     | 23.50        | Rig Repair             | RIG REPAIR REPLACE BLOWN HYDRAULIC LINE ON MAIN HYDRAULIC SYSTEM                                     |
| 23:30      | 00:00    | 0.50     | 24.00        | Fishing                | (FISHING) RUN IN HOLE FROM 895M TO 1296M   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/26/2011  
Report #: 36.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 50,656  
Cum Cost to Date: 2,912,228

DFS: 37.44days

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 1,435.67            | 48,680.51                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
| 1,417.00                      | 1065.0                     | 40                        | 8.5                        |                       |                     |                          |

### MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| KELZAN    | 498.75                | 2.0      |
| SODA ASH  | 19.57                 | 2.0      |
| ULTRAFLOC | 133.01                | 2.0      |
| ULTRAFLOC | 133.01                | 1.0      |

### MUD PUMPS

|                |                   |                  |
|----------------|-------------------|------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| 1              |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| 1              |                   | 800.0            |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
|                |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des                        |
|-----------|----------------|----------------------------|
| 2/27/2011 | Safety Meeting | SLIP AND CUT DRILLING LINE |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| ft Simpson         | 719.00             | 718.85                |
| win Falls          | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 Nabors Drilling

Report For: 2/26/2011

Report #: 36.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 50,656

Cum Cost to Date: 2,912,228

DFS: 37.44days

#### FORMATIONS

| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|----------------|--------------------|-----------------------|
| Slave Point Fm | 1,353.00           | 1,346.33              |
| F4 Marker      | 1,412.00           | 1,388.48              |





## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 2/27/2011**  
**Report #: 37.0**  
**Depth Progress: 0.00**

**Business Unit: NE BC & NWT COU**  
**Rig: 24 Nabors Drilling**

**Total AFE Amount: 2,535,440**  
**AFE Number: 10N110009**  
**Daily Cost: 155,258**  
**Cum Cost to Date: 3,067,486**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UMI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 38.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,424.00 | End Depth (mKB)<br>1,424.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-33 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
 Tripping in with the directional tools

Operations Summary  
 Tripped in the hole for final attempt to latch fish.  
 Circulated down 8 singles that we laid down while pulling out with the washover assembly. Tagged the fish at 1416.86m, rotated Cut Lip over fish top, stopped rotary and slid down .70m full swallow of the over shot. Pulled up with 10daN overpull and the grapple slid off, attempted several times to latch without success. Tripped out to run cement plugs. BJ Services skid crew was available and on the road from Grande Prairie. Laid down fishing tools and tripped in open ended to cement.

Circulated above the fish for several hours waiting on cementers and while they rigged in. Held a crew change and cementing safety meeting. Tied in the cementers with a circulating nubbin to cemented a 150m plug (1416m to 1266m). Filled lines and pressure tested to 25MPa, pumped 2m3 ahead and pumped 5.8m3 (7.6t) BJ's MaxxCem G cement with .90% FL-5, 1.00% CaCl2. Tripped out 13 stands of drill pipe and picked up the kelly to circulate out excess cement and clear the drill string. Pressure increased to 6200 kpa to establish circulation then pressures stabilized at 2600kpa. Tripped out to make up directional tools, laid down the last 13 singles.

Operations Next Report Period  
 Trip in the hole, drill cement and began side track.

Remarks  
 No accidents incidents or spills.

Fishing and cementing and drill bit cost entered.

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                    |                                      |   |
|--------------------|--------------------------------------|---|
| Head Count<br>33.0 | Personnel Total Hours (hr)<br>792.00 | Cum Personnel Total Hours (hr)<br>23,092.00 |
|--------------------|--------------------------------------|---|

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com   |
|------------|----------|----------|--------------|---------------------------|---|
| 00:00      | 02:00    | 2.00     | 2.00         | Fishing                   | (FISHING) RUN IN HOLE FROM 188M TO 1380 M FILL PIPE @ 1345M WASH TO BOTTOM FROM 13480M TO 1416M       |
| 02:00      | 04:00    | 2.00     | 4.00         | Fishing                   | (FISHING) TRY TO LATCH FISH   |
| 04:00      | 04:45    | 0.75     | 4.75         | Condition mud & circulate | CIRCULAT BOTTOMS UP AND MIX PILL  |
| 04:45      | 07:00    | 2.25     | 7.00         | Fishing                   | (FISHING) PULL OUT OF HOLE TO LAY DOWN FISHING TOOLS, FLOW CHECKS @ 1406M-506M                        |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING WITH BOTH CREWS  |
| 07:15      | 09:30    | 2.25     | 9.50         | Fishing                   | (FISHING) CONTINUE TO PULL OUT OF HOLE FROM 506M TO SURFACE AND BREAK DOWN, AND LAY OUT FISHING TOOLS |
| 09:30      | 10:00    | 0.50     | 10.00        | Other                     | CLEAN AND PREPARE FLOOR TO RUN IN THE HOLE  |
| 10:00      | 12:00    | 2.00     | 12.00        | Trip in hole              | TRIP IN HOLE OPEN ENDED TO 743M FLOW CHECK @345M, 723M,   |
| 12:00      | 14:00    | 2.00     | 14.00        | Trip in hole              | CONTINUE TO TRIP IN HOLE FROM 743M TO 1409M   |
| 14:00      | 19:00    | 5.00     | 19.00        | W/O Cements               | CIRCULATE AND W/O CEMENTERS, PREPARE FOR CEMENT JOB, DEICE FLOOR AND EQUIPMENT                        |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting            | SAFETY MEETING WITH BOTH CREWS  |
| 19:15      | 19:30    | 0.25     | 19.50        | Pre-job safety            | PRE-JOB SAFETY MEETING WITH B.J. CEMENTERS  |
| 19:30      | 20:00    | 0.50     | 20.00        | Cement plugs              | CEMENT PLUGS  |
| 20:00      | 20:45    | 0.75     | 20.75        | Trip out of hole          | TRIP OUT 13 STANDS TO DISPLACE STRING 100M ABOVE PLUG TOP   |
| 20:45      | 21:00    | 0.25     | 21.00        | Condition mud & circulate | CIRCULATE STRING FREE OF EXCESS CEMENT  |
| 21:00      | 23:30    | 2.50     | 23.50        | Trip out of hole          | TRIP OUT OF HOLE FOR DIRECTIONAL TOOLS FROM 1250 M TO 150 M FLOW CHECKS @ 836M, 150M                  |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 Nabors Drilling

Report For: 2/27/2011  
Report #: 37.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 155,258  
Cum Cost to Date: 3,067,486

DFS: 38.44days

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2              | Com                                      |
|------------|----------|----------|--------------|---------------------|--|
| 23:30      | 23:45    | 0.25     | 23.75        | Safety meeting      | SAFETY MEETING PRIOR TO LAY DOWN DP      |
| 23:45      | 00:00    | 0.25     | 24.00        | Lay down drill pipe | LAY DOWN DRILL PIPE FROM 150M TO SURFACE |

## MUD CHECKS

|  |          |   |                 |  |         |                            |         |                           |                          |
|--|----------|---|-----------------|--|---------|----------------------------|---------|---------------------------|--------------------------|
| Low Gravity Solids (%)                     | 6.0      | MBT (kg/m <sup>3</sup> )                | Oil Water Ratio | Chlorides (mg/L)                       | 400.000 | Calcium (mg/L)             | 100.000 | Lime (kg/m <sup>3</sup> ) | Potassium (mg/L)         |
| Electric Stab (V)                          |          | ECD - Manual Entry (kg/m <sup>3</sup> ) | Sand (%)        | Solids (%)                             |         | Temp Bottom Hole (°C)      |         | HTHP Pressure (kPa)       | HTHP Filtrate (mL/30min) |
|  |          | 1163000.0                               |                 |  |         |                            |         |                           |                          |
| Active Mud Volume (Surf) (m <sup>3</sup> ) |          | Mud Lost to Hole (m <sup>3</sup> )      |                 | Cum Mud Lost to Hole (m <sup>3</sup> ) |         | Daily Mud Field Est (Cost) |         | Cum Mud Field Est...      |                          |
|  |          |   |                 |  |         | 1,301.06                   |         | 49,981.57                 |                          |
| Depth (mKB)                                | 1,407.00 | Density (kg/m <sup>3</sup> )            | 1080.0          | Funnel Viscosity (s/L)                 | 3,888   | pH                         | 9.0     | PV Override (cp)          | 13.0                     |
|  |          |   |                 |  |         |                            |         | YP Override (Pa)          | 4.309                    |

## MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| BARITE    | 22.31                 | 30.0     |
| KELZAN    | 498.75                | 1.0      |
| ULTRAFLOC | 133.01                | 1.0      |

## MUD PUMPS

|                |   |                   |  |                  |                           |
|----------------|---|-------------------|--|------------------|---------------------------|
| Pump Number    | 1 | Rod Diameter (mm) |  | Pump Rating (kW) |                           |
| Pressure (kPa) |   | Slow Speed Check? |  | Strokes (spm)    |                           |
|                |   |                   |  |                  | Volumetric Efficiency (%) |
| Pump Number    | 1 | Rod Diameter (mm) |  | Pump Rating (kW) | 800.0                     |
| Pressure (kPa) |   | Slow Speed Check? |  | Strokes (spm)    | 127.0                     |
|                |   |                   |  |                  | Volumetric Efficiency (%) |
| Pump Number    | 1 | Rod Diameter (mm) |  | Pump Rating (kW) |                           |
| Pressure (kPa) |   | Slow Speed Check? |  | Strokes (spm)    |                           |
|                |   |                   |  |                  | Volumetric Efficiency (%) |

## BIT SUMMARY

| Bit Run      | Bit Type                       | Size (mm) | Make              | Model              | Serial Number  | IADC Codes    |
|--------------|--------------------------------|-----------|-------------------|--------------------|----------------|---------------|
| Nozzles (mm) | Depth In (mKB) Depth Out (mKB) |           | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |

## DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

## DRILLING SUMMARY

|                   |                 |                           |                     |                               |                                 |                |
|-------------------|-----------------|---------------------------|---------------------|-------------------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN) | Drilling Torque               | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             |                     | Slack-Off String Weight (daN) | Drilling Time (hr)              |                |

## SAFETY CHECKS

| Date      | Type           | Des                       |
|-----------|----------------|---------------------------|
| 2/27/2011 | Safety Meeting | EXTREAME COLD TEMPS.      |
| 2/28/2011 | Safety Meeting | PICK UP DIRECTIONAL TOOLS |

## SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

## WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m <sup>3</sup> ) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|------------------------------|-----------------|
|          |         |         |                 |                              |                 |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
 Rig: 24 Nabors Drilling

Report For: 2/27/2011  
 Report #: 37.0  
 Depth Progress: 0.00

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 155,258  
 Cum Cost to Date: 3,067,486

DFS: 38.44days

#### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

#### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Ft Simpson         | 719.00             | 718.85                |
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |
| Slave Point Fm     | 1,353.00           | 1,346.33              |
| F4 Marker          | 1,412.00           | 1,388.48              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 2/28/2011  
Report #: 38.0  
Depth Progress: 0.00**

**Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 54,648  
Cum Cost to Date: 3,122,133**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWV<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 39.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|  |                                      |                                   |   |                 |
|--|--------------------------------------|-----------------------------------|---|-----------------|
| <b>Daily Operations</b>  |                                      |                                   |   |                 |
| Start Depth (mKB)<br>1,424.00  | End Depth (mKB)<br>1,424.00          | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00              |                 |
| Weather<br>Clear   | Temperature (°C)<br>-34              | Lease Condition                   |   |                 |
| Operation at 6am<br>Circulating, above side track point  |                                      |                                   |   |                 |
| Operations Summary<br>Made up the 222mm directional assembly and tripped in the hole, flow checked and tested the mwd tool at 400m. Picked up the Kelly and washed and reamed several tight spots from 847m to 1190m. Circulated and cleaned up the mud, mixed desco and soda ash to combat the clobbered mud. Laid down 16 singles and tripped in the eight remaining stands from the derrick. Tagged and drilled cement from 1290m to 1303m. |                                      |                                   |   |                 |
| Operations Next Report Period<br>Repair mud system, side track and drill ahead.  |                                      |                                   |   |                 |
| Remarks<br>Pason system was down again, torque hook load and weight on bit were not working properly after it froze up. Changed out the hook load sensor after the reboot.   |                                      |                                   |   |                 |
| Avg Connection Gas (Units)   |                                      | Avg Background Gas (Units)        |   | Max H2S (Units) |
| Avg Trip Gas (Units)   |                                      | Avg Connection Gas (Units)        |   |                 |
| Head Count<br>31.0   | Personnel Total Hours (hr)<br>744.00 |                                   | Cum Personnel Total Hours (hr)<br>23,836.00 |                 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |  |  |
|------------------|----------|----------|--------------|--|--|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2   | Com  |
| 00:00            | 00:15    | 0.25     | 0.25         | Clean - floor / Pump / screens                 | CLEAN - FLOOR  |
| 00:15            | 00:30    | 0.25     | 0.50         | Safety meeting                                 | SAFETY MEETING WITH DIRECTIONAL HANDS PRIOR TO PICK UP DIRECTIONAL TOOLS |
| 00:30            | 04:30    | 4.00     | 4.50         | Handle directional tools                       | PICK UP MAKE UP DIRECTIONAL TOOLS  |
| 04:30            | 07:00    | 2.50     | 7.00         | Trip in hole                                   | TRIP IN HOLE FROM 40M TO 681M FILL PIPE AND TEST TOOL @ 408M             |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting                                 | SAFETY MEETING WITH BOTH CREWS.  |
| 07:15            | 12:00    | 4.75     | 12.00        | Trip in hole                                   | TRIP IN HOLE FROM 681M TO 847M THEN KELLY UP OFF AND ON DOWN TO 1169M    |
| 12:00            | 14:45    | 2.75     | 14.75        | Trip in hole                                   | TRIP IN HOLE, WASH/ REAM DOWN TO 1151M CIRCULATE HOLE CLEAN              |
| 14:45            | 15:30    | 0.75     | 15.50        | Trip out of hole                               | TRIP OUT OF HOLE SIDE WAYS 16 SINGLES FROM 1151M- 1001M                  |
| 15:30            | 16:00    | 0.50     | 16.00        | Trip in hole                                   | (TRIP IN HOLE) RUN 8 STANDS OUT OF DERRICK                               |
| 16:00            | 19:00    | 3.00     | 19.00        | Ream & Clean                                   | REAM & CLEAN FROM 1139M- 1247M   |
| 19:00            | 19:15    | 0.25     | 19.25        | Safety meeting                                 | SAFETY MEETING WITH BOTH CREWS   |
| 19:15            | 21:45    | 2.50     | 21.75        | Ream & Clean                                   | REAM & CLEAN FROM 1247M TO 1290M   |
| 21:45            | 23:45    | 2.00     | 23.75        | Drill cement/drill out cement/drill float&shoe | DRILL CEMENT FROM 1290M TO 1303M   |
| 23:45            | 00:00    | 0.25     | 24.00        | Downtime - Instrumentation                     | DOWNTIME - REBOOT PASON SYSTEM   |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 2/28/2011  
Report #: 38.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 54,648  
Cum Cost to Date: 3,122,133

DFS: 39.44days

#### MUD CHECKS

|                               |                            |                           |                            |                       |                    |                         |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|--------------------|-------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)       | Potassium (mg/L)        |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HHP Pressure (kPa) | HHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 1,533.43           | 51,515.00               |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)   |                         |
| 1,297.00                      | 1010.0                     | 45                        | 12.0                       |                       |                    |                         |

#### MUD ADDITIVES

| Des                | Field Est (Cost/unit) | Consumed |
|--------------------|-----------------------|----------|
| DEFOAMER           | 210.34                | 5.0      |
| DESCO              | 80.22                 | 3.0      |
| SODA ASH           | 19.57                 | 3.0      |
| SODIUM BICARBONATE | 29.59                 | 1.0      |
| TKPP               | 152.77                | 1.0      |

#### MUD PUMPS

|                |                   |                  |
|----------------|-------------------|------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| 1              |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| 1              |                   | 800.0            |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   | 127.0            |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |
| 1              |                   |                  |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
|                |                   |                  |

#### BIT SUMMARY

|              |                                |                   |                    |                |               |            |
|--------------|--------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                       | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB) Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

#### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

#### SAFETY CHECKS

| Date      | Type           | Des                  |
|-----------|----------------|----------------------|
| 2/28/2011 | Safety Meeting | DRILLING CEMENT      |
| 3/1/2011  | Safety Meeting | MIXING MUD CHEMICALS |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

|          |         |         |                 |                 |                 |
|----------|---------|---------|-----------------|-----------------|-----------------|
| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|          |         |         |                 |                 |                 |

#### SURVEY DATA

|      |          |          |         |           |        |        |        |             |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|      |          |          |         |           |        |        |        |             |

#### FORMATIONS

|                |                    |                       |
|----------------|--------------------|-----------------------|
| Formation Name | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
| Ft Simpson     | 719.00             | 718.85                |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 NABORS DRILLING

Report For: 2/28/2011

Report #: 38.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 54,648

Cum Cost to Date: 3,122,133

DFS: 39.44days

#### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Twin Falls         | 830.00             | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |
| Slave Point Fm     | 1,353.00           | 1,346.33              |
| F4 Marker          | 1,412.00           | 1,388.48              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

Report For: 3/1/2011  
Report #: 39.0  
Depth Progress: 45.00

**Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING**

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 90,632  
Cum Cost to Date: 3,212,766

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 40.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,333.00 | End Depth (mKB)<br>1,413.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
| Weather<br>Clear              |                             | Temperature (°C)<br>-32           | Lease Condition                |

Operation at 6am

Control drilling in the slave point @ 1350m

Operations Summary

Drilled cement from 1303m to 1331m two meters above side track depth. We had drilled all the cement with reduced pup pressure due to an infiltration of micro air bubbles, drilled with a pump pressure reduced from 10,000kpa to 2500kpa range. Mixed 7 pails of defoamer while drilling the cement. The plan was to save the remaining 5 pails of defoamer and shock the mud system with defoamer and water so we had enough pump pressure to get a pulse on the mwd tools and begin side tracking. Additional defoamer and mud product ordered at this time. The plan failed we spent 2 1/2 hours trying to get rid of the aerated mud and our pump pressure dropped to 800kpa.

The decision was made to use the surface hole mud we had in storage, add a ton of water to get it hydrated and displace the well. We over displaced the well by 15m3 and pump the contaminated mud into 400bbl tanks on location. The pump pressure returned to normal, but the bubbles continued. By the time we displaced the well additional defoamer had arrived. We continued to add small amounts of defoamer while circulating a bottoms up and wanted to establish some consistent pump pressure prior to starting the side track.

Drilled cement from 1331m to 1333m at this time a Hydraulic hose blew on the bops. The driller heard the hose blow as he was on the drill floor, he shut in accumulator immediately. The hose was changed and the 50l of oil was cleaned up with sawdust and tampons.

Control drilled from 1333m to 1334m @ 1"/4min

Control drilled from 1334m to 1337m @ 1"/3min

Control drilled from 1337m to 1338m @ 1"/2min

Geological samples indicated a reduction in cement at each 50cm sample interval while drilling the above meters.

Operations Next Report Period

Control drill around fish, then drill ahead at full rate

Remarks

Neufeld delivered 25,000 liters of fuel

One load of cuttings hauled to CCS

One full highboy of mud product delivered

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.

|                            |                            |                                      |   |
|----------------------------|----------------------------|--------------------------------------|---|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units)                 | Max H2S (Units)                             |
| Head Count<br>31.0         |                            | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>24,580.00 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2   | Com   |
|------------|----------|----------|--------------|--|---|
| 00:00      | 03:15    | 3.25     | 3.25         | Drill cement/drill out cement/drill float&shoe | DRILL CEMENT FROM 1303M TO 1331M  |
| 03:15      | 03:30    | 0.25     | 3.50         | Rig Service                                    | RIG SERVICE   |
| 03:30      | 05:45    | 2.25     | 5.75         | Condition mud & circulate                      | CONDITION MUD & CIRCULATE   |
| 05:45      | 07:00    | 1.25     | 7.00         | Change out mud system                          | PREPARE 400BBLs AND UNITED TANK TO DISPLACE THE WELL WITH VOLUME FRO STORAGE TANKS                                  |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting                                 | SAFETY MEETING WITH BOTH CREWS  |
| 07:15      | 12:00    | 4.75     | 12.00        | Change out mud system                          | CHANGE OUT MUD SYSTEM. SUCK AIRATED MUD OUT OF MAINSYSTEM AND BRING OVER SURFACE MUD FROM 400 BRLS. MIX IN DEFOMER. |
| 12:00      | 13:15    | 1.25     | 13.25        | Controlled drilling                            | CONTROLLED DRILLING FROM 1331M-1333M  |
| 13:15      | 13:45    | 0.50     | 13.75        | Rig Service                                    | RIG SERVICE / REPLACE HYD BOP HOSE  |
| 3:45       | 19:00    | 5.25     | 19.00        | Controlled drilling                            | CONTROLLED DRILLING FROM 1333M-1334M @ 1 INCH/4MINS. 1334M-1336M @ 1INCH/3MINS                                      |







### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/1/2011  
 Report #: 39.0  
 Depth Progress: 45.00

Business Unit: NE BC & NWT COU  
 Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 90,632  
 Cum Cost to Date: 3,212,766

DFS: 40.44days

#### DRILL STRING COMPONENTS

| Item Des      | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|---------------|---------|---------|-----|---------|-------------|
| HWDP(4.0 IN)  | 64.0    | 102.0   | 6   | 56.28   | 288.29      |
| JARS-HYD/MECH | 58.0    | 123.0   | 1   | 4.94    | 175.73      |
| X/O           | 69.0    | 164.0   | 1   | 0.67    | 170.79      |
| X/O           | 69.0    | 164.0   | 1   | 0.67    | 170.12      |
| HWDP(4.0 IN)  | 64.0    | 102.0   | 6   | 56.28   | 169.45      |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 9.45    | 103.72      |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 9.45    | 113.17      |
| X/O           | 69.0    | 164.0   | 1   | 0.67    | 94.27       |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 8.67    | 84.93       |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 8.67    | 93.60       |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 9.45    | 76.26       |
| MONEL FLEX    | 81.0    | 159.0   | 1   | 9.07    | 66.81       |
| MONEL FLEX    | 81.0    | 159.0   | 1   | 9.07    | 57.74       |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 8.67    | 48.67       |
| ORIENT SUB    |         | 164.0   | 1   | 1.00    | 40.00       |
| ORIENT SUB    |         | 164.0   | 1   | 1.00    | 39.00       |
| MONEL FLEX    | 81.0    | 159.0   | 1   | 9.07    | 38.00       |
| LOAT SUB      |         | 165.0   | 1   | 1.11    | 28.93       |
| LOAT SUB      |         | 165.0   | 1   | 1.11    | 27.82       |
| ORIENT SUB    |         | 164.0   | 1   | 1.00    | 26.71       |
| MOTOR LS      |         | 165.0   | 1   | 8.11    | 17.60       |
| MOTOR LS      |         | 165.0   | 1   | 8.11    | 25.71       |
| FLOAT SUB     |         | 165.0   | 1   | 1.11    | 9.49        |
| MOTOR LS      |         | 165.0   | 1   | 8.11    | 8.38        |

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 1,333.00          | 1,338.00        |                           | 5,000                         |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
|                   | 1               |                           | 1                             | 10.00              |                    |                |

#### SAFETY CHECKS

| Date     | Type           | Des             |
|----------|----------------|-----------------|
| 3/1/2011 | Safety Meeting | SLIPS AND TRIPS |
| 3/2/2011 | Safety Meeting | HOUSEKEEPING    |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date     | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 3/2/2011 | 1,344.56 | 31.80    | 165.90  | 1,339.14  | -6.35  | 4.39   | 6.40   | 16.28       |
| 3/2/2011 | 1,354.16 | 35.50    | 165.20  | 1,347.28  | -11.33 | 5.34   | 11.39  | 28.36       |

#### FORMATIONS

| Formation Name     | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|--------------------|--------------------|-----------------------|
| Ft Simpson         |                    | 718.85                |
| Twin Falls         |                    | 829.84                |
| Beaverhill Lake Fm | 1,325.00           | 1,321.96              |
| Slave Point Fm     | 1,353.00           | 1,346.33              |
| F4 Marker          | 1,412.00           | 1,388.48              |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 NABORS DRILLING

Report For: 3/2/2011  
Report #: 40.0  
Depth Progress: 75.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 63,805  
Cum Cost to Date: 3,276,571

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 41.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

#### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,338.00 | End Depth (mKB)<br>1,413.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-29 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Drilling the build section at 1428m at the F4 marker

Operations Summary  
Directionally drilled from 1338m to 1413m increasing wob slightly with each kelly drilled down. The side track went smoothly overall, we were off the plug in just over 3/4 of a meter. Rop averaged 3.8 m/hr drilling at full wob and pump rate. Trickled in defoamer all day, mixed to rebuild the mud system and did not run the centrifuge. Small air bubbles continued to break out at the shaker.

Operations Next Report Period  
Drill ahead to ICP

Remarks  
Crews did pack training and walked the search route.  
Hauled 2 loads of cuttings to CCS  
Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52.

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>31.0         | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>25,324.00 |                 |

#### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

#### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2           | Com   |
|------------|----------|----------|--------------|------------------|---|
| 00:00      | 07:00    | 7.00     | 7.00         | Drill            | DIRECTIONAL DRILL 222 MM HOLE FROM 1338M TO 1353M                                       |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting   | SAFETY MEETING WITH BOTH CREWS  |
| 07:15      | 11:45    | 4.50     | 11.75        | Drill            | DIRECTIONAL DRILL 222MM HOLE FROM 1353M-1373M   |
| 11:45      | 12:00    | 0.25     | 12.00        | Deviation survey | ACC SURVEY TIME   |
| 12:00      | 19:00    | 7.00     | 19.00        | Drill            | DRILL 222MM HOLE FROM 1373M-1399M   |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting   | SAFETY MEETING WITH BOTH CREWS  |
| 19:15      | 19:30    | 0.25     | 19.50        | Safety meeting   | SAFETY MEETING , REVIEW NABORS LEARNING BULLETINS, AND PROCEDURES FOR SOUR WELL CONTROL |
| 19:30      | 23:15    | 3.75     | 23.25        | Drill            | DRILL 222MM HOLE FROM 1399M TO 1413M  |
| 23:15      | 00:00    | 0.75     | 24.00        | Deviation survey | ACC SURVEY TIME   |

#### MUD CHECKS

|                               |                            |                                 |  |                                   |                           |                         |
|-------------------------------|----------------------------|---------------------------------|--|-----------------------------------|---------------------------|-------------------------|
| Low Gravity Solids (%)<br>3.7 | MBT (kg/m³)                | Oil Water Ratio                 | Chlorides (mg/L)<br>500.000            | Calcium (mg/L)<br>40.000          | Lime (kg/m³)              | Potassium (mg/L)        |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)<br>0.3                 | Solids (%)<br>3.7                      | Temp Bottom Hole (°C)             | HHP Pressure (kPa)        | HHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)       | Daily Mud Field Est (Cost)<br>5,992.36 | Cum Mud Field Est...<br>62,753.38 |                           |                         |
| Depth (mKB)<br>1,402.00       | Density (kg/m³)<br>1060.0  | Funnel Viscosity (s/L)<br>3,888 | pH<br>10.0                             | PV Override (cp)<br>12.0          | YP Override (Pa)<br>3.447 |                         |

#### MUD ADDITIVES

| Des      | Field Est (Cost/unit) | Consumed |
|----------|-----------------------|----------|
| DEFOAMER | 210.34                | 5.0      |
| DEFOAMER | 210.34                | 6.0      |
| DRISPAC  | 198.45                | 1.0      |
| DRISPAC  | 198.45                | 2.0      |
| KELZAN   | 498.75                | 1.0      |
| KELZAN   | 498.75                | 3.0      |
| LIGNITE  | 15.72                 | 2.0      |
| LIGNITE  | 15.72                 | 8.0      |



|                    |          |                   |          |                      |          |
|--------------------|----------|-------------------|----------|----------------------|----------|
| FORMATION Name     |          | Dmll Top MD (mKB) |          | Dmll Top (TVD) (mKB) |          |
| Ft Simpson         | 719.00   | 719.00            | 719.00   | 718.85               | 718.85   |
| Twin Falls         | 830.00   | 830.00            | 830.00   | 829.84               | 829.84   |
| Beaverhill Lake Fm | 1,325.00 | 1,325.00          | 1,325.00 | 1,321.96             | 1,321.96 |
| Slave Point Fm     | 1,353.00 | 1,353.00          | 1,353.00 | 1,346.33             | 1,346.33 |
| F4 Marker          | 1,412.00 | 1,412.00          | 1,412.00 | 1,388.48             | 1,388.48 |

| Date     | MD (mKB) | Incl (?) | Azm (?) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (?/30m) |
|----------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| 3/2/2011 | 1,392.09 | 50.00    | 167.90  | 1,376.17  | -35.34 | 8.90   | 35.44  | 34.19       |
| 3/3/2011 | 1,401.71 | 52.90    | 168.90  | 1,382.46  | -42.53 | 9.89   | 42.65  | 29.00       |
| 3/3/2011 | 1,411.33 | 55.30    | 171.60  | 1,388.10  | -50.21 | 11.21  | 50.34  | 10.12       |
| 3/3/2011 | 1,420.94 | 58.30    | 172.80  | 1,393.37  | -58.17 | 12.30  | 58.32  | 9.88        |
| 3/3/2011 | 1,430.55 | 60.90    | 173.80  | 1,398.23  | -66.41 | 13.26  | 66.57  | 8.55        |

| SURVEY DATA |         |         |                 |                 |                 |      |     |      |
|-------------|---------|---------|-----------------|-----------------|-----------------|------|-----|------|
| Run Date    | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) | Date | Com | Type |
|             |         |         |                 |                 |                 |      |     |      |

| WELL CONTROL SUMMARY |         |         |                 |                 |                 |      |     |      |
|----------------------|---------|---------|-----------------|-----------------|-----------------|------|-----|------|
| Run Date             | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) | Date | Com | Type |
|                      |         |         |                 |                 |                 |      |     |      |

| SAFETY INCIDENTS |                |                    |  |  |  |  |  |  |
|------------------|----------------|--------------------|--|--|--|--|--|--|
| Date             | Type           | Des                |  |  |  |  |  |  |
| 3/2/2011         | Safety Meeting | HEARING PROTECTION |  |  |  |  |  |  |
| 3/3/2011         | Safety Meeting | ROLLING CASING     |  |  |  |  |  |  |


| SAFETY CHECKS     |                 |                           |                     |                 |                    |                |           |                 |
|-------------------|-----------------|---------------------------|---------------------|-----------------|--------------------|----------------|-----------|-----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN) | Drilling Torque | Flow Rate (m³/min) | DP (SPP) (kPa) | RPM (rpm) | Motor RPM (rpm) |
| 1,338.00          | 1,373.00        |                           | 23,000              |                 |                    |                | 40        | 40              |
|                   |                 |                           |                     |                 |                    |                |           |                 |

| DRILLING SUMMARY |         |         |     |         |             |                    |                |           |
|------------------|---------|---------|-----|---------|-------------|--------------------|----------------|-----------|
| Item Des         | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) | Flow Rate (m³/min) | DP (SPP) (kPa) | RPM (rpm) |
| MONEL FLEX       | 81.0    |         | 1   | 9.07    | 38.00       |                    |                |           |
| FLOAT SUB        |         | 165.0   | 1   | 1.11    | 28.93       |                    |                |           |
| FLOAT SUB        |         | 165.0   | 1   | 1.11    | 27.82       |                    |                |           |
| ORIENT SUB       |         | 164.0   | 1   | 1.00    | 26.71       |                    |                |           |
| MOTOR LS         |         | 165.0   | 1   | 8.11    | 17.60       |                    |                |           |
| MOTOR LS         |         | 165.0   | 1   | 8.11    | 25.71       |                    |                |           |
| FLOAT SUB        |         | 165.0   | 1   | 1.11    | 9.49        |                    |                |           |
| MOTOR LS         |         | 165.0   | 1   | 8.11    | 8.38        |                    |                |           |

| DRILL STRING COMPONENTS |         |         |     |         |             |                    |                |           |
|-------------------------|---------|---------|-----|---------|-------------|--------------------|----------------|-----------|
| Item Des                | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) | Flow Rate (m³/min) | DP (SPP) (kPa) | RPM (rpm) |
|                         |         |         |     |         |             |                    |                |           |

**Report For: 3/2/2011**  
**Report #: 40.0**  
**Depth Progress: 75.00**  
**Total AFE Amount: 2,535,440**  
**AFE Number: 10N110009**  
**Daily Cost: 63,805**  
**Cum Cost to Date: 3,276,571**

**Well Name: PARA ET AL CAMERON 2H-03 HZ**  
**Business Unit: NE BC & NWT COU**  
**Rig: 24 NABORS DRILLING**  
**resources ltd.**



**Daily Drilling**

DFS: 41.44days



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/3/2011  
Report #: 41.0  
Depth Progress: 90.94

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 56,916  
Cum Cost to Date: 3,333,487

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UMI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 42.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,413.00 | End Depth (mKB)<br>1,503.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
| Weather<br>Clear              |                             | Temperature (°C)<br>-31           | Lease Condition                |

Operation at 6am  
Drilling the build at 1520m to ICP est at 1534m md

Operations Summary  
Drilled the 222mm build section from 1413m to 1503m averaging 3.75m/hr for the 24 hour period.  
Slid 54 of the 90m drilled.

Operations Next Report Period  
Drill ahead to ICP, landing at 1422.00m TVD, circulate bottoms up wipe the hole up to the casing shoe, trip out to run casing

Remarks  
Moved the 7" string to the pipe racks, inspected connections and re-drifted the entire string.  
Hauled 2 loads of cuttings to CCS  
Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52

No accidents incidents, the Rig is running fine

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>31.0         | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>26,068.00 |                 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2              | Com  |
|------------|----------|----------|--------------|---------------------|--|
| 00:00      | 05:00    | 5.00     | 5.00         | Drill               | DRILL 222MM HOLE FROM 1413M TO 1426M                                       |
| 05:00      | 05:15    | 0.25     | 5.25         | Rig Service         | RIG SERVICE FUNCTION ANNULAR 8 SEC TO CLOSE                                |
| 05:15      | 07:00    | 1.75     | 7.00         | Drill               | DRILL 222MM HOLE FROM 1426M TO 1432M                                       |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting      | SAFETY MEETING WITH BOTH CREWS   |
| 07:15      | 11:15    | 4.00     | 11.25        | Drill               | DRILL 222 MM HOLE FROM 1432M-1452M   |
| 11:15      | 12:00    | 0.75     | 12.00        | Directional surveys | DIRECTIONAL SURVEYS  |
| 12:00      | 14:45    | 2.75     | 14.75        | Drill               | DRILL 222MM HOLE FROM 1452M-1464   |
| 14:45      | 15:00    | 0.25     | 15.00        | Rig Service         | RIG SERVICE GREASED CROWN, DRIVE LINE, DRAW WORKS, TABLE. CHECKED ALL OILS |
| 15:00      | 19:00    | 4.00     | 19.00        | Drill               | DRILL 222MM HOLE FROM 1464M-1480M  |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting      | SAFETY MEETING WITH BOTH CREWS   |
| 19:15      | 22:30    | 3.25     | 22.50        | Drill               | DRILL 222MM HOLE FROM 1480M- 1503M   |
| 22:30      | 00:00    | 1.50     | 24.00        | Deviation survey    | ACC SURVEY TIME  |

### MUD CHECKS

|                               |                            |                                 |  |                                   |                           |                         |
|-------------------------------|----------------------------|---------------------------------|--|-----------------------------------|---------------------------|-------------------------|
| Low Gravity Solids (%)<br>5.8 | MBT (kg/m³)                | Oil Water Ratio                 | Chlorides (mg/L)<br>500.000            | Calcium (mg/L)<br>40.000          | Lime (kg/m³)              | Potassium (mg/L)        |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)<br>0.4                 | Solids (%)<br>3.7                      | Temp Bottom Hole (°C)             | HHP Pressure (kPa)        | HHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)       | Daily Mud Field Est (Cost)<br>3,294.88 | Cum Mud Field Est...<br>66,048.26 |                           |                         |
| Depth (mKB)<br>1,496.00       | Density (kg/m³)<br>1105.0  | Funnel Viscosity (s/L)<br>4,752 | pH<br>10.0                             | PV Override (cp)<br>12.0          | YP Override (Pa)<br>3.447 |                         |

### MUD ADDITIVES

| Des     | Field Est (Cost/unit) | Consumed |
|---------|-----------------------|----------|
| CAUSTIC | 41.79                 | 1.0      |
| FOAMER  | 210.34                | 2.0      |
| BRISPAC | 198.45                | 1.0      |
| DRISPAC | 198.45                | 3.0      |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/3/2011  
 Report #: 41.0  
 Depth Progress: 90.94

Business Unit: NE BC & NWT COU  
 Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 56,916  
 Cum Cost to Date: 3,333,487

DFS: 42.44days

## MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| KELZAN    | 498.75                | 2.0      |
| LIGNITE   | 15.72                 | 7.0      |
| ULTRAFLOC | 133.01                | 3.0      |
| ULTRAFLOC | 133.01                | 4.0      |

## MUD PUMPS

| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|----------------|-------------------|---------------------------|
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   | 127.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
| 3,160          | Yes               | 50                        |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
| 3,160          | Yes               | 50                        |

## BIT SUMMARY

| Bit Run   | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes         |
|---|----------------|-----------------|-------------------|--------------------|----------------|--------------------|
|   | Bit            | 222.0           | REED              | RO9AMP             | JW5842         | 437                |
| 12.7/12.7/12.7/12.7/12.7/12.7/12.7/12.7/12.7/12.7 | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull      |
|   | 1,333.00       | 1,534.00        | 201.94            | 59.25              | 3.4            | 4-4-CT-A-2-2-BT-TD |

## DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Stands  |         |         | 42  | 799.94  | 3,537.32    |
| Drill pipe - Stands  |         |         | 47  | 894.75  | 4,432.07    |
| Drill pipe - Singles |         |         | 1   | 9.60    | 2,737.38    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 54  | 505.23  | 2,727.78    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 54  | 505.23  | 2,222.55    |
| Drill pipe - Stands  |         |         | 48  | 913.92  | 1,717.32    |
| JARS-HYD/MECH        | 58.0    | 123.0   | 1   | 4.94    | 803.40      |
| JARS-HYD/MECH        | 58.0    | 123.0   | 1   | 4.94    | 798.46      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 54  | 505.23  | 793.52      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 6   | 56.28   | 232.01      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 6   | 56.28   | 288.29      |
| JARS-HYD/MECH        | 58.0    | 123.0   | 1   | 4.94    | 175.73      |
| X/O                  | 69.0    | 164.0   | 1   | 0.67    | 170.79      |
| X/O                  | 69.0    | 164.0   | 1   | 0.67    | 170.12      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 6   | 56.28   | 169.45      |
| MONEL FLEX           | 76.0    | 161.0   | 1   | 9.45    | 103.72      |
| MONEL FLEX           | 76.0    | 161.0   | 1   | 9.45    | 113.17      |
| X/O                  | 69.0    | 164.0   | 1   | 0.67    | 94.27       |
| MONEL FLEX           | 76.0    | 161.0   | 1   | 8.67    | 84.93       |
| MONEL FLEX           | 76.0    | 161.0   | 1   | 8.67    | 93.60       |
| MONEL FLEX           | 76.0    | 161.0   | 1   | 9.45    | 76.26       |
| MONEL FLEX           | 81.0    | 159.0   | 1   | 9.07    | 66.81       |
| MONEL FLEX           | 81.0    | 159.0   | 1   | 9.07    | 57.74       |
| MONEL FLEX           | 76.0    | 161.0   | 1   | 8.67    | 48.67       |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/3/2011  
Report #: 41.0  
Depth Progress: 90.94

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 56,916  
Cum Cost to Date: 3,333,487

DFS: 42.44days

## DRILL STRING COMPONENTS

| Item Des   | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|------------|---------|---------|-----|---------|-------------|
| ORIENT SUB |         | 164.0   | 1   | 1.00    | 40.00       |
| ORIENT SUB |         | 164.0   | 1   | 1.00    | 39.00       |
| MONEL FLEX | 81.0    | 159.0   | 1   | 9.07    | 38.00       |
| FLOAT SUB  |         | 165.0   | 1   | 1.11    | 28.93       |
| FLOAT SUB  |         | 165.0   | 1   | 1.11    | 27.82       |
| ORIENT SUB |         | 164.0   | 1   | 1.00    | 26.71       |
| MOTOR LS   |         | 165.0   | 1   | 8.11    | 17.60       |
| MOTOR LS   |         | 165.0   | 1   | 8.11    | 25.71       |
| FLOAT SUB  |         | 165.0   | 1   | 1.11    | 9.49        |
| MOTOR LS   |         | 165.0   | 1   | 8.11    | 8.38        |

## DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| 1,413.00          | 1,452.94        |                           | 16,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 40                |                 | 40                        |                               | 11.50              |                    |                |
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 1,452.00          | 1,503.00        |                           | 17,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 40                |                 | 40                        |                               | 9.50               |                    |                |

## SAFETY CHECKS

| Date     | Type           | Des          |
|----------|----------------|--------------|
| 3/3/2011 | Safety Meeting | DRIFT CASING |
| 3/4/2011 | Safety Meeting | FLOW CHECKS  |

## SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

## WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

## SURVEY DATA

| Date     | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m)  | EW (m) | VS (m) | DLS (*/30m) |
|----------|----------|----------|---------|-----------|---------|--------|--------|-------------|
| 3/3/2011 | 1,477.50 | 75.30    | 176.60  | 1,414.55  | -110.21 | 16.66  | 110.41 | 7.62        |
| 3/3/2011 | 1,486.90 | 77.50    | 178.80  | 1,416.76  | -119.33 | 17.03  | 119.54 | 9.79        |
| 3/4/2011 | 1,496.52 | 78.00    | 179.90  | 1,418.80  | -128.73 | 17.14  | 128.94 | 3.70        |
| 3/4/2011 | 1,506.12 | 80.20    | 180.70  | 1,420.62  | -138.16 | 17.09  | 138.36 | 7.30        |
| 3/4/2011 | 1,519.00 | 84.80    | 181.20  | 1,422.30  | -150.92 | 16.87  | 151.12 | 10.78       |

## FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Business Unit: NE BC & NWT COU**

**Rig: 24 NABORS DRILLING**

**Report For: 3/4/2011**  
**Report #: 42.0**  
**Depth Progress: 31.00**

**Total AFE Amount: 2,535,440**  
**AFE Number: 10N110009**  
**Daily Cost: 53,032**  
**Cum Cost to Date: 3,386,519**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 43.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>1,503.00 | End Depth (mKB)<br>1,534.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-31 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
 Tripping in at 1300m after wiper trip laying down directional tools

Operations Summary  
 Drilled 222mm hole from 1503m to ICP at 1534m md TVD of 1422.09m, Inc 90.16 deg, Azi 180.50 deg.

While sliding at 1527 the string became hung up and string weight could not be applied to the bit. Attempted to free the string by applying 3-4k torque and working the string, jarred and attempted to pull free, then pulled 48 daN over string weight to get free. This process took one hour, resumed drilling the remaining 7meters. Circulated bottoms up then started the wiper trip, pulled three stands and then started pulling tight hole, pumped out 9 singles, firing the jars several times and pulling 10 to 45 daN to get out of the hole. Reamed back through several sections of the well bore. Once we pulled up to the side track depth 1333m the string pulled free and the hole was in fine condition. Completed the trip out and laying down directional tools. Once the tools were laid down the crew installed a 3" rubber spacer spool under the flow T. Minor rig leveling will take place once we are back on bottom prior to running the 177.8mm intermediate casing string.

Operations Next Report Period  
 Wash or ream to bottom from 1333m, circulate and condition mud, trip out and run the 177.8mm casing string.

Remarks  
 Hauled 2 loads of cuttings to CCS  
 Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52

No accidents incidents, the Rig is running fine

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                    |                                      |   |
|--------------------|--------------------------------------|---|
| Lead Count<br>31.0 | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>26,812.00 |
|--------------------|--------------------------------------|---|

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                          |  |
|------------------|----------|----------|--------------|--------------------------|--|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2                   | Com  |
| 00:00            | 02:00    | 2.00     | 2.00         | Drill                    | DRILL 222 MMM HOLE FROM 1503M 1511M  |
| 02:00            | 02:15    | 0.25     | 2.25         | Rig Service              | RIG SERVICE FUNCTION PIPE RAMS 3 SECONDS TO CLOSE  |
| 02:15            | 07:00    | 4.75     | 7.00         | Drill                    | DRILL 222 MM HOLE FROM 1511M TO 1525M  |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting           | SAFETY MEETING WITH BOTH CREWS   |
| 07:15            | 08:30    | 1.25     | 8.50         | Drill                    | DRILL 222MM HOLE FROM 1525M-1527M  |
| 08:30            | 09:30    | 1.00     | 9.50         | Jarring                  | PULL 15 daN INTO STRING, PUT 2.5 TURNS INTO STRING AND LET SIT. THEN COME DOWN TO STRING WT. THEN BACK UP TO 70DAN AND REPEAT. THEN BACK DOWN TO 15DAN TOO SET JARS, THEN UP TO 75 DAN, AND REPEAT 4X. THEN TOOL PUSH REPEATED TAKING WT UP TO 90dAN |
| 09:30            | 11:30    | 2.00     | 11.50        | Drill                    | DRILL 222MM HOLE FROM 1527M- 1534M T.D.  |
| 11:30            | 12:00    | 0.50     | 12.00        | Circulate And Condition  | CIRCULATE, BTMS UP AND PREPARE TO PULL OUT OF HOLE, MIX PILL   |
| 12:00            | 13:00    | 1.00     | 13.00        | Circulate And Condition  | CIRCULATE BOTTOMS UP   |
| 13:00            | 19:00    | 6.00     | 19.00        | Trip out of hole         | WIPER TRIP OUT FROM 1534-758M, (PULL 3 STANDS TO 1480M, THEN KELLY UP AND PUMP OUT 9 SINGLES AND WORK TIGHT HOLE) FLOW CHECK @758M   |
| 19:00            | 19:15    | 0.25     | 19.25        | Safety meeting           | SAFETY MEETING WITH BOTH CREWS   |
| 19:15            | 21:30    | 2.25     | 21.50        | Trip out of hole         | TRIP OUT OF HOLE FROM 758M- 40M  |
| 21:30            | 21:45    | 0.25     | 21.75        | Safety meeting           | SAFETY MEETING PRIOR TO LAY DOWN DIRECTIONAL TOOLS   |
| 1:45             | 23:15    | 1.50     | 23.25        | Handle directional tools | LAY DOWN DIRECTIONAL TOOLS   |





# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/4/2011  
 Report #: 42.0  
 Depth Progress: 31.00

Business Unit: NE BC & NWT COU  
 Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 53,032  
 Cum Cost to Date: 3,386,519

DFS: 43.44days

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                         | Com   |
|------------|----------|----------|--------------|--------------------------------|---|
| 23:15      | 23:30    | 0.25     | 23.50        | Clean - floor / Pump / screens | CLEAN - FLOOR                                   |
| 23:30      | 00:00    | 0.50     | 24.00        | Other                          | INSTALL RUBBER SPACER IN FLOW-T FOR JACKING RIG |

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 2,709.84            | 68,758.10                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
| 1,534.00                      | 1110.0                     | 56                        | 10.0                       |                       |                     |                          |

### MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| BARITE    | 22.31                 | 30.0     |
| CAUSTIC   | 41.79                 | 1.0      |
| DESCO     | 80.22                 | 1.0      |
| GEL       | 13.05                 | 20.0     |
| GEL       | 13.05                 | 20.0     |
| KELZAN    | 498.75                | 1.0      |
| KELZAN    | 498.75                | 1.0      |
| ULTRAFLOC | 133.01                | 2.0      |
| ULTRAFLOC | 133.01                | 1.0      |

### MUD PUMPS

|                |                   |                  |
|----------------|-------------------|------------------|
| Pump Number 1  | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
| Pump Number 1  | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
| Pump Number 1  | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    |
| 3,200          | Yes               | 50               |

### BIT SUMMARY

|   |                         |                          |                          |                          |                      |                                  |
|---|-------------------------|--------------------------|--------------------------|--------------------------|----------------------|----------------------------------|
| Bit Run 5   | Bit Type Bit            | Size (mm) 222.0          | Make REED                | Model RO9AMP             | Serial Number JW5842 | IADC Codes 437                   |
| Nozzles (mm) 12.7/12.7/12.7/12.7/12.7/12.7/12.7/12.7/12.7 | Depth In (mKB) 1,333.00 | Depth Out (mKB) 1,534.00 | Depth Drilled (m) 201.94 | Drilling Time (hr) 59.25 | BHA ROP (m/hr) 3.4   | IADC Bit Dull 4-4-CT-A-2-2-BT-TD |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------------------|---------|---------|-----|---------|-------------|
| Drill pipe - Stands  |         |         | 42  | 799.94  | 3,537.32    |
| Drill pipe - Stands  |         |         | 47  | 894.75  | 4,432.07    |
| Drill pipe - Singles |         |         | 1   | 9.60    | 2,737.38    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 54  | 505.23  | 2,727.78    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 54  | 505.23  | 2,222.55    |
| Drill pipe - Stands  |         |         | 48  | 913.92  | 1,717.32    |
| JARS-HYD/MECH        | 58.0    | 123.0   | 1   | 4.94    | 803.40      |
| JARS-HYD/MECH        | 58.0    | 123.0   | 1   | 4.94    | 798.46      |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/4/2011  
Report #: 42.0  
Depth Progress: 31.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 53,032  
Cum Cost to Date: 3,386,519

DFS: 43.44days

## DRILL STRING COMPONENTS

| Item Des      | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|---------------|---------|---------|-----|---------|-------------|
| HWDP(4.0 IN)  | 64.0    | 102.0   | 54  | 505.23  | 793.52      |
| HWDP(4.0 IN)  | 64.0    | 102.0   | 6   | 56.28   | 232.01      |
| HWDP(4.0 IN)  | 64.0    | 102.0   | 6   | 56.28   | 288.29      |
| JARS-HYD/MECH | 58.0    | 123.0   | 1   | 4.94    | 175.73      |
| X/O           | 69.0    | 164.0   | 1   | 0.67    | 170.79      |
| X/O           | 69.0    | 164.0   | 1   | 0.67    | 170.12      |
| HWDP(4.0 IN)  | 64.0    | 102.0   | 6   | 56.28   | 169.45      |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 9.45    | 103.72      |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 9.45    | 113.17      |
| X/O           | 69.0    | 164.0   | 1   | 0.67    | 94.27       |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 8.67    | 84.93       |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 8.67    | 93.60       |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 9.45    | 76.26       |
| MONEL FLEX    | 81.0    | 159.0   | 1   | 9.07    | 66.81       |
| MONEL FLEX    | 81.0    | 159.0   | 1   | 9.07    | 57.74       |
| MONEL FLEX    | 76.0    | 161.0   | 1   | 8.67    | 48.67       |
| ORIENT SUB    |         | 164.0   | 1   | 1.00    | 40.00       |
| ORIENT SUB    |         | 164.0   | 1   | 1.00    | 39.00       |
| MONEL FLEX    | 81.0    | 159.0   | 1   | 9.07    | 38.00       |
| FLOAT SUB     |         | 165.0   | 1   | 1.11    | 28.93       |
| FLOAT SUB     |         | 165.0   | 1   | 1.11    | 27.82       |
| ORIENT SUB    |         | 164.0   | 1   | 1.00    | 26.71       |
| MOTOR LS      |         | 165.0   | 1   | 8.11    | 17.60       |
| MOTOR LS      |         | 165.0   | 1   | 8.11    | 25.71       |
| FLOAT SUB     |         | 165.0   | 1   | 1.11    | 9.49        |
| MOTOR LS      |         | 165.0   | 1   | 8.11    | 8.38        |

## DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 1,503.00          | 1,534.00        |                           | 18,000                        |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 40                | 40              | 40                        |                               | 7.50               |                    |                |

## SAFETY CHECKS

| Date     | Type           | Des                |
|----------|----------------|--------------------|
| 3/4/2011 | Safety Meeting | ROTARY DANGER ZONE |

## SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

## WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

## SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

## FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 3/5/2011  
Report #: 43.0  
Depth Progress: 0.00**

**Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 83,664  
Cum Cost to Date: 3,470,183**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 44.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,534.00 | End Depth (mKB)<br>1,534.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
| Weather<br>Clear              |                             | Temperature (°C)<br>-28           | Lease Condition                |

Operation at 6am  
Tripping out to run casing @ 650m

#### Operations Summary

Tripped in the hole after laying down directional tools to 1320m, reamed and washed 23 singles to bottom. Worked each single until it went in with no excessive hole drag. Circulated on bottom until the shakers were cleaned up. Flow checked and started the trip out, the hole started pulling tight at 1444m, attempted to pull through the tight spots with no pump. Needed the jars and 45 daN overpull to get two stands racked back in the derrick. Pumped out singles from 1404m to 1320m. Hole drag reduced to 8daN with the pump on. Washed back in the hole from 1320m to 1403m mixing gel and barite to increase viscosity and mud density. Density was increased to 1130 kg/m3 and the vis was increased from 70 to 130 s/l. The hole unloaded fairly large amounts of sand with the increased. Foaming continues to be a minor issue.

#### Operations Next Report Period

Trip out of the hole, run casing and cement

#### Remarks

28,000l of fuel delivered by Neufeld  
Hauled 1 load of cuttings to CCS  
Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52  
No accidents incidents, the Rig is running fine  
BJ Services and the tong hand on location

|                            |                            |                                      |   |
|----------------------------|----------------------------|--------------------------------------|---|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units)                 | Max H2S (Units)                             |
| Lead Count<br>31.0         |                            | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>27,556.00 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com  |
|------------|----------|----------|--------------|---------------------------|--|
| 00:00      | 01:00    | 1.00     | 1.00         | Other                     | INSTALL RUBBER SPACER ON FLOW-T, READY FLOOR EQUIPMENT TO RUN IN HOLE  |
| 01:00      | 02:00    | 1.00     | 2.00         | Other                     | REMOVE RUBBER SPACER FROM FLOW-T, SPACER WOULD NOT ACCOMODATE THE DRILL BIT  |
| 02:00      | 07:00    | 5.00     | 7.00         | Trip in hole              | TRIP IN HOLE FROM SURFACE TO 1324 FILLED PIPE @ 605M, 1255M LAYED DOWN 8 SINGLES FROM 1255 TO 1324   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING WITH BOTH CREWS   |
| 07:15      | 12:00    | 4.75     | 12.00        | Ream & Clean              | REAM & CLEAN FROM 1330M-1475M  |
| 12:00      | 14:00    | 2.00     | 14.00        | Ream & Clean              | REAM & CLEAN FROM 1475M-1534M  |
| 14:00      | 15:00    | 1.00     | 15.00        | Condition mud & circulate | CONDITION MUD & CIRCULATE, AND JACK RIG  |
| 15:00      | 16:30    | 1.50     | 16.50        | Trip out of hole          | TRIP OUT OF HOLE TO RUN CASING. FROM 1534M- 1410M PULL 6 STANDS  |
| 16:30      | 17:15    | 0.75     | 17.25        | Jarring                   | JARRED AND WORKED THE STRING FREE, PULLING 40 TO 45 daN OVER STRING WEIGHT   |
| 17:15      | 18:45    | 1.50     | 18.75        | Trip out of hole          | TRIP OUT OF HOLE START PUMPING 12 SINGLES OUT OF HOLE FROM 1403M, RAN IN THE 8 STANDS FROM THE DERRICK AND BEGAN WASHIND AND REAMING TO BOTTOM |
| 18:45      | 19:00    | 0.25     | 19.00        | Safety meeting            | CREW CHANGE SAFETY MEETING, CIRCULATED DURING THIS TIME  |
| 19:00      | 00:00    | 5.00     | 24.00        | Reaming                   | REAM AND WASH TO BOTTOM FROM 1328M TO 1403M, MIXING GEL AT 2MIN/SAC  |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/5/2011  
Report #: 43.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 83,664  
Cum Cost to Date: 3,470,183

DFS: 44.44days

### MUD CHECKS

|  |          |   |    |  |        |                            |         |                       |        |                           |  |                          |  |
|--|----------|---|----|--|--------|----------------------------|---------|-----------------------|--------|---------------------------|--|--------------------------|--|
| Low Gravity Solids (%)                     | 5.8      | MBT (kg/m <sup>3</sup> )                | 90 | Oil Water Ratio                        |        | Chlorides (mg/L)           | 500.000 | Calcium (mg/L)        | 40.000 | Lime (kg/m <sup>3</sup> ) |  | Potassium (mg/L)         |  |
| Electric Stab (V)                          |          | ECD - Manual Entry (kg/m <sup>3</sup> ) |    | Sand (%)                               | 0.4    | Solids (%)                 | 3.7     | Temp Bottom Hole (°C) |        | HTHP Pressure (kPa)       |  | HTHP Filtrate (mL/30min) |  |
| Active Mud Volume (Surf) (m <sup>3</sup> ) |          | Mud Lost to Hole (m <sup>3</sup> )      |    | Cum Mud Lost to Hole (m <sup>3</sup> ) |        | Daily Mud Field Est (Cost) |         | Cum Mud Field Est...  |        | 3,737.16                  |  | 72,495.26                |  |
| Depth (mKB)                                | 1,496.00 | Density (kg/m <sup>3</sup> )            | .0 | Funnel Viscosity (s/L)                 | 10,368 | pH                         | 10.0    | PV Override (cp)      | 12.0   | YP Override (Pa)          |  | 6.703                    |  |

### MUD ADDITIVES

| Des       | Field Est (Cost/unit) | Consumed |
|-----------|-----------------------|----------|
| BARITE    | 22.31                 | 21.0     |
| DEFOAMER  | 210.34                | 9.0      |
| GEL       | 13.05                 | 51.0     |
| KELZAN    | 498.75                | 1.0      |
| SODA ASH  | 19.57                 | 4.0      |
| ULTRAFLOC | 133.01                | 1.0      |

### MUD PUMPS

|                |       |                   |     |                  |       |
|----------------|-------|-------------------|-----|------------------|-------|
| Pump Number    | 1     | Rod Diameter (mm) |     | Pump Rating (kW) |       |
| Pressure (kPa) |       | Slow Speed Check? |     | Strokes (spm)    |       |
| Pump Number    |       | Rod Diameter (mm) |     | Pump Rating (kW) | 800.0 |
| Pressure (kPa) |       | Slow Speed Check? |     | Strokes (spm)    |       |
| Pump Number    | 1     | Rod Diameter (mm) |     | Pump Rating (kW) |       |
| Pressure (kPa) | 3,200 | Slow Speed Check? | Yes | Strokes (spm)    | 50    |
| Pressure (kPa) | 3,250 | Slow Speed Check? | Yes | Strokes (spm)    | 55    |

### BIT SUMMARY

|              |                               |           |                   |                    |                |               |
|--------------|-------------------------------|-----------|-------------------|--------------------|----------------|---------------|
| Bit Run      | Bit Type                      | Size (mm) | Make              | Model              | Serial Number  | IADC Codes    |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) |           | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                                 |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |

### SAFETY CHECKS

| Date     | Type           | Des                    |
|----------|----------------|------------------------|
| 3/5/2011 | Safety Meeting | STEAM USE ON THE FLOOR |
| 3/6/2011 | Safety Meeting | CHANGE SHAKER SCREENS  |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m <sup>3</sup> ) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|------------------------------|-----------------|
|          |         |         |                 |                              |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 NABORS DRILLING

Report For: 3/5/2011

Report #: 43.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 83,664

Cum Cost to Date: 3,470,183

DFS: 44.44days

#### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 3/6/2011  
Report #: 44.0  
Depth Progress: 0.00**

**Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING**

**Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 53,632  
Cum Cost to Date: 3,523,815**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 45.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,534.00 | End Depth (mKB)<br>1,534.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-24 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am

**Cementing the intermediate casing string**

Operations Summary

Reamed and washed in the hole from 1403m to bottom at 1534m mixing gel and barite to increase viscosity and mud density. Density was increased to 1130 kg/m3 and the vis was increased from 70 to 130 s/l.. The hole was caving in and unloading. Hole troubles are from the Beaver Hill Lake through the Watt Mountain formations Foaming continued to be a minor issue.

Circulated a bottoms up then tripped out to run casing, the hole pulled 30 daN over through the Slave Point formation. Sucked the volume out of the rathole, blew back the kelly and knocked off the Kelly hose.

Held a pre-job safety meeting then rigged up to run casing. Made up a 177.8mm float and shoe, checked ok. Ran casing in filling on the fly, broke circulation at 1250m. Washed in the hole from 1320m to 1420m

Operations Next Report Period

WOC, pressure test the bop's, make up the 156mm drill out assembly.

Remarks

Hauled 1 load of cuttings to CCS

Excess casing on location: 3 joints 244.5mm on 2H-03 and 3 joints of 219mm on E-52

No accidents incidents, the Rig is running fine

BJ Services on location

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>31.0         | Personnel Total Hours (hr)<br>744.00 | Cum Personnel Total Hours (hr)<br>28,300.00 |                 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com   |
|------------|----------|----------|--------------|---------------------------|---|
| 00:00      | 03:00    | 3.00     | 3.00         | Ream & Clean              | REAM AND WASH TO BOTTOM FROM 1403M, 1534M MIXING GEL AT 2MIN/SAC  |
| 03:00      | 03:30    | 0.50     | 3.50         | Condition mud & circulate | CIRCULATE BOTTOMS UP  |
| 03:30      | 07:00    | 3.50     | 7.00         | Trip out of hole          | TRIP OUT OF HOLE FROM 1534M TO 477M FLOW CHECKS @ 1530M,1054M, 477M   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING WITH BOTH CREWS  |
| 07:15      | 08:45    | 1.50     | 8.75         | Trip out of hole          | TRIP OUT OF HOLE FROM 477M- TO SURFACE  |
| 08:45      | 09:15    | 0.50     | 9.25         | Other                     | CLAEN AND PREPARE FLOOR TO RUN CASING, BLOW OUT KELLY AND KNOCK KELLY HOSE OFF                                      |
| 09:15      | 10:00    | 0.75     | 10.00        | Rig up/down to run casing | RIG UP TO RUN CASING AND HAVE PREJOB SAFETY MEETING WITH CREW AND TONG HAND   |
| 10:00      | 12:00    | 2.00     | 12.00        | Run casing & cementing    | RUN CASING FROM 0M-470M   |
| 12:00      | 19:00    | 7.00     | 19.00        | Run casing & cementing    | RUN CASING FROM 470M-1251M, HEAD UP AND CIRCULATE FOR 15MINS, CONTINUE RUNING CASING TO 1320M, THEN WASH TO 1378M . |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting            | SAFETY MEETING WITH BOTH CREWS AND POWER TONG HAND  |
| 19:15      | 00:00    | 4.75     | 24.00        | Run casing & cementing    | WASH CASING FROM 1378M TO 1420M   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/6/2011  
 Report #: 44.0  
 Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
 Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 53,632  
 Cum Cost to Date: 3,523,815

DFS: 45.44days

### MUD CHECKS

|  |          |   |    |  |        |                            |         |                       |        |                           |  |                          |  |
|--|----------|---|----|--|--------|----------------------------|---------|-----------------------|--------|---------------------------|--|--------------------------|--|
| Low Gravity Solids (%)                     | 5.8      | MBT (kg/m <sup>3</sup> )                | 90 | Oil Water Ratio                        |        | Chlorides (mg/L)           | 500.000 | Calcium (mg/L)        | 40.000 | Lime (kg/m <sup>3</sup> ) |  | Potassium (mg/L)         |  |
| Electric Stab (V)                          |          | ECD - Manual Entry (kg/m <sup>3</sup> ) |    | Sand (%)                               | 0.4    | Solids (%)                 | 3.7     | Temp Bottom Hole (°C) |        | HTHP Pressure (kPa)       |  | HTHP Filtrate (mL/30min) |  |
| Active Mud Volume (Surf) (m <sup>3</sup> ) |          | Mud Lost to Hole (m <sup>3</sup> )      |    | Cum Mud Lost to Hole (m <sup>3</sup> ) |        | Daily Mud Field Est (Cost) |         | Cum Mud Field Est...  |        | 1,510.66                  |  | 74,005.92                |  |
| Depth (mKB)                                | 1,534.00 | Density (kg/m <sup>3</sup> )            | .0 | Funnel Viscosity (s/L)                 | 10,368 | pH                         | 10.0    | PV Override (cp)      | 12.0   | YP Override (Pa)          |  | 6.703                    |  |

### MUD ADDITIVES

| Des      | Field Est (Cost/unit) | Consumed |
|----------|-----------------------|----------|
| BARITE   | 22.31                 | 30.0     |
| DEFOAMER | 210.34                | 4.0      |

### MUD PUMPS

|                           |       |                   |     |                  |       |
|---------------------------|-------|-------------------|-----|------------------|-------|
| Pump Number               | 1     | Rod Diameter (mm) |     | Pump Rating (kW) |       |
| Pressure (kPa)            |       | Slow Speed Check? |     | Strokes (spm)    |       |
| Volumetric Efficiency (%) |       |                   |     |                  |       |
| Pump Number               | 1     | Rod Diameter (mm) |     | Pump Rating (kW) | 800.0 |
| Pressure (kPa)            |       | Slow Speed Check? |     | Strokes (spm)    | 127.0 |
| Volumetric Efficiency (%) |       |                   |     |                  |       |
| Pump Number               | 1     | Rod Diameter (mm) |     | Pump Rating (kW) |       |
| Pressure (kPa)            | 3,250 | Slow Speed Check? | Yes | Strokes (spm)    | 55    |
| Volumetric Efficiency (%) |       |                   |     |                  |       |

### BIT SUMMARY

|              |                                |           |                   |                    |                |               |
|--------------|--------------------------------|-----------|-------------------|--------------------|----------------|---------------|
| Bit Run      | Bit Type                       | Size (mm) | Make              | Model              | Serial Number  | IADC Codes    |
| Nozzles (mm) | Depth In (mKB) Depth Out (mKB) |           | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                                 |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |

### SAFETY CHECKS

| Date     | Type           | Des                  |
|----------|----------------|----------------------|
| 3/6/2011 | Safety Meeting | CLUTTERED WORK AREAS |
| 3/7/2011 | Safety Meeting | CEMENT CASING        |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m <sup>3</sup> ) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|------------------------------|-----------------|
|          |         |         |                 |                              |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| 4 Marker          | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 NABORS DRILLING

Report For: 3/6/2011  
Report #: 44.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 53,632  
Cum Cost to Date: 3,523,815

DFS: 45.44days

#### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Sulphur Point Dol | 1,483.50           | 1,415.93              |





## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/7/2011  
Report #: 45.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 303,516  
Cum Cost to Date: 3,827,331

|                                 |  |                                     |                   |                                       |
|---------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UM<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45    |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 46.44days                        |
| Ground Elevation (m)<br>770.20  |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,534.00 | End Depth (mKB)<br>1,534.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-24 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Pressure testing the blinds/casing

Operations Summary  
Washed and pounded casing in from 1420m to 1532m to get it to bottom.

Casing details:  
Ran 114 joints of 177.8mm L-80, 34.23 kg/m3, LT&C EVRAZ casing, the string included 1 Import L-80 8 round float shoe, one joint of casing and 1 Import 8 round float collar (Top of float collar 1516.51mkb) followed by 113 joints of range 3 to surface. Ran 37 Import Bow Spring Centralizers, stop collars were installed 3m above and below the float collar. Total length of casing was 1534.48m and was landed at 1531.00 mKB.  
Casing was washed in from 1420m to bottom and circulated on bottom for 3 hours including the pre job safety meeting with BJ Services.

Cement details:  
Pre-flushed with 4.00m3 water followed by 1.17t (3.00m3) MaxxCem G Cement with .90% FL-5, 1.00% Cacl2 scavenger pre-flush weighted at 1250kg/m3. Cemented with 35.5 t (34.5m3) MaxxCem G cement with .90% FL-5, 1.00% Cacl2. Dropped the plug and displaced with 30.10m3 fresh water, bumped the plug at 12MPa 3.5 MPa over the final circulating pressure at 08:30 hrs March 7, 2011. Full mud returns throughout the job. Bled back the floats held and the annulus level was static. No cement returns noted at the shaker.

Drained the bops, blew out the casing and lifted the bop stack. Installed the casing slips and set into them at 44daN. Cut and beveled the casing, installed the casing slip assembly and lowered the bops. Pressure tested the manifold shack, upper and lower Kelly cocks and inside bop.

Operations Next Report Period  
Complete pressure test, make up 156mm directional bha and drill out.

Remarks  
Casing seal assembly arrived late from Grande Prairie and was installed hours later.  
Transferred mud tank volume to storage tanks on E-52 then cleaned mud tanks. Stripped back mud for make up water for the Horizontal mud system. Installed 152mm liners in the mud pump, slip and cut drilling line. Nabors Mechanic changed out the heater in the loader, changed out transmission seals and roto seal on drawworks  
Hauled 1 load of cuttings to CCS  
Excess casing : 3 joints 244.5mm on 2H-03, 5 joints 177.8mm and 3 joints of 219mm on E-52

|                            |                                      |                                |                 |
|----------------------------|--------------------------------------|--------------------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)           | Max H2S (Units) |
| Head Count<br>32.0         | Personnel Total Hours (hr)<br>768.00 | Cum Personnel Total Hours (hr) | 29,068.00       |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                    | Com  |
|------------|----------|----------|--------------|---------------------------|--|
| 00:00      | 02:45    | 2.75     | 2.75         | Run casing                | WASH CASING FROM 1420M TO 1532M  |
| 02:45      | 05:45    | 3.00     | 5.75         | Condition mud & circulate | CONDITION MUD & CIRCULATE  |
| 05:45      | 06:00    | 0.25     | 6.00         | Safety meeting            | SAFETY MEETING WITH BJ CEMENTERS   |
| 06:00      | 07:00    | 1.00     | 7.00         | Cementing                 | CEMENTED WITH 1.17t 3M3 MAXXCEM G SCAVENGER .90 FL-5%, 1% CaCL2 FOLLOWED BY 35.5t MAXXCEM G BLEND AT 1700KG/M3 .90 FL-5%, 1% CaCL2. DISPLACED WITH 30.10M3 WATER, FULL RETURNS THROUGHOUT THE JOB, BUMPED THE PLUG, BLEDED OFF AND CHECKED THE FLOATS, OK. |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting            | SAFETY MEETING PRE TOUR. WITH BOTH CREWS   |
| 07:15      | 09:30    | 2.25     | 9.50         | Cementing                 | CEMENTING. DROP PLUG @08:30 AND DISPLACE CASING  |
| 09:30      | 12:00    | 2.50     | 12.00        | Nipple down BOPs          | REMOVE FLOW LINE, LIFT BOP STACK OFF CASING BOWL, TO SET CASING SLIPS  |
| 12:00      | 12:30    | 0.50     | 12.50        | Other                     | CUT OFF CASING, SET CASING SLIPS 44dan   |
| 12:30      | 17:00    | 4.50     | 17.00        | Wait on cement            | WAIT ON CEMENT, CLEAN MUD TANKS, TRANSFER VOLUME TO E-52 STORAGE TANKS   |
| 7:00       | 18:00    | 1.00     | 18.00        | Pressure test BOPs        | PRESSURE TEST MANIFOLD 1400 KPA LOW 14000 KPA HIGH ALL TEST HELD FOR 5 MIN   |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/7/2011  
 Report #: 45.0  
 Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
 Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 303,516  
 Cum Cost to Date: 3,827,331

DFS: 46.44days

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2                 | Com   |
|------------|----------|----------|--------------|------------------------|---|
| 18:00      | 19:00    | 1.00     | 19.00        | Slip/Cut drilling line | SLIP/CUT DRILLING LINE  |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting         | SAFETY MEETING WITH BOTH CREWS  |
| 19:15      | 20:00    | 0.75     | 20.00        | Pressure test BOPs     | PRESSURE TEST UPPER AND LOWER KELLY COCK FUNCTION TEST MOTOR KILLS  |
| 20:00      | 23:30    | 3.50     | 23.50        | Waiting on             | WAITING ON CASING SLIPS SEAL ASSEMBELEY, CONTINUE CLEANING MUD TANKS, CHECK VALVES, SEATS, AND LINERS IN MUD PUMP, BUILD AND INSTALL 2" VALVE ON BOP SPOOL, |
| 23:30      | 00:00    | 0.50     | 24.00        | Nipple up BOP          | NIPPLE UP BOP, INSTALL CASING SLIP SEAL ASSEMBELEY  |

## MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 80.22               | 74,086.14                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
| 1,531.00                      | 1110.0                     | 3,197                     | 9.0                        |                       |                     |                          |

## MUD ADDITIVES

| Des  | Field Est (Cost/unit) | Consumed |
|------|-----------------------|----------|
| ESCO | 80.22                 | 1.0      |

## MUD PUMPS

|                |                   |                           |
|----------------|-------------------|---------------------------|
| Pump Number 1  | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
| Pump Number 1  | Rod Diameter (mm) | Pump Rating (kW)          |
| 127.0          |                   | 800.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
| Pump Number 1  | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |

## BIT SUMMARY

| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

## DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

## DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

## SAFETY CHECKS

| Date     | Type           | Des             |
|----------|----------------|-----------------|
| 3/8/2011 | Safety Meeting | NIPPLE UP BOP'S |
| 3/8/2011 | Safety Meeting | NIPPLE UP BOP'S |

## SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 NABORS DRILLING

Report For: 3/7/2011

Report #: 45.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 303,516

Cum Cost to Date: 3,827,331

DFS: 46.44days

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

#### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



**Paramount**  
resources ltd.

## Daily Drilling

Well Name: **PARA ET AL CAMERON 2H-03 HZ**

Business Unit: **NE BC & NWT COU**  
Rig: **24 NABORS DRILLING**

Report For: **3/8/2011**  
Report #: **46.0**  
Depth Progress: **11.00**

Total AFE Amount: **2,535,440**  
AFE Number: **10N110009**  
Daily Cost: **60,361**  
Cum Cost to Date: **3,887,692**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UMI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 47.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,534.00 | End Depth (mKB)<br>1,545.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-23 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Drilling the lateral at 1600m

#### Operations Summary

Nipped up the bop's, crews struggled with damaged bolts on the kill line and had to replace. Pressure tested the casing and bop's as detailed in the time breakdown. The HCR valve would not hold pressure and was replaced by the rig crew, all other components tested without incident. Made up and scribed MWD tools with a 127mm 7/8 lobe 3.8stage HR motor set at 1.83 deg and a 156mm UD 513 PDC drill bit and tripped in the hole. Tested the filled pipe and tested the MWD tool at 400m and 1000m. Tagged cement at 1511m, drilled the float 1516.95m and the shoe at 1531m. No issues drilling the plugs.  
Drilled 156mm hole from 1534m to 1545m

Operations Next Report Period  
Drill ahead

#### Remarks

Held a sour H2S pack drill at crew change and conducted a nipple up inspection and hazard hunt. Pason system upgrade downloaded yesterday, drilling parameters and MD entered manually. MD accurate bit information is not. Will address today. 300l mud spill during mud transfer to E-52, 400bbl overflowed by Vacuum Truck Operator. Spill cleaned immediately. Hauled 1 load of cuttings to CCS  
Excess casing : 3 joints 244.5mm on 2H-03, 5 joints 177.8mm and 3 joints of 219mm on E-52.  
Cameron Hills field communications issues were discussed at the morning field operations meetings as they are every meeting.

|                            |                            |                                      |   |
|----------------------------|----------------------------|--------------------------------------|---|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units)                 | Max H2S (Units)                             |
| Tool Count<br>32.0         |                            | Personnel Total Hours (hr)<br>768.00 | Cum Personnel Total Hours (hr)<br>29,836.00 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2             | Com  |
|------------|----------|----------|--------------|--------------------|--|
| 00:00      | 06:00    | 6.00     | 6.00         |                    | NIPPLE UP BOPS, INSTALL FLOW T, AND FLOW LINE, CHANGE OUT DAMAGED BOLTS ON KILL LINE VALVE ASSEMBLY  |
| 06:00      | 12:00    | 6.00     | 12.00        | Nipple up BOPs     | NIPPLE UP BOPS, INSTALL FLOW T, AND FLOW LINE, CHANGE OUT DAMAGED BOLTS ON KILL LINE VALVE ASSEMBLY  |
| 12:00      | 13:00    | 1.00     | 13.00        |                    | PRESSUREE TESTED THE BOP COMPONENTS AS FOLLOWS: TESTED THE UPPER AND LOWER KELLY COCK, INSIDE BOP, STABBING VALVE,MANIFOLD VALVES AND CHOKE LINES 1500KPA LOW AND 14000KPA HIGH TEST HELD FOR 5MIN WITH NO PRESSURE DROP |
| 13:00      | 14:00    | 1.00     | 14.00        | Pressure test BOPs | PRESSUREE TESTED THE BOP COMPONENTS AS FOLLOWS: TESTED THE UPPER AND LOWER KELLY COCK, INSIDE BOP, STABBING VALVE,MANIFOLD VALVES AND CHOKE LINES 1500KPA LOW AND 14000KPA HIGH TEST HELD FOR 5MIN WITH NO PRESSURE DROP |
| 14:15      | 14:30    | 0.25     | 14.50        |                    | SAFETY MEETING WITH BOTH CREWS   |
| 14:00      | 14:15    | 0.25     | 14.25        | Safety meeting     | SAFETY MEETING WITH BOTH CREWS   |
| 14:30      | 16:45    | 2.25     | 16.75        |                    | PRESSURE TESTED THE BLIND RAMS, 177.8MM CASING SEAL ASSEMBLY, ANNULAR AND CHECK VALVE OUTSIDE CHOKE AND KILL VALVES,1500KPA LOW AND 14000KPA HIGH TEST HELD FOR 5MIN WITH NO PRESSURE DROP                               |
| 16:45      | 19:00    | 2.25     | 19.00        | Pressure test BOPs | PRESSURE TESTED THE BLIND RAMS, 177.8MM CASING SEAL ASSEMBLY, ANNULAR AND CHECK VALVE OUTSIDE CHOKE AND KILL VALVES,1500KPA LOW AND 14000KPA HIGH TEST HELD FOR 5MIN WITH NO PRESSURE DROP                               |
| 20:30      | 22:00    | 1.50     | 22.00        |                    | CHANGE HCR VALVE   |
| 9:00       | 20:30    | 1.50     | 20.50        | Other              | CHANGE HCR VALVE   |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/8/2011  
Report #: 46.0  
Depth Progress: 11.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 60,361  
Cum Cost to Date: 3,887,692

DFS: 47.44days

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2   | Com   |
|------------|----------|----------|--------------|--|---|
| 22:00      | 23:00    | 1.00     | 23.00        |  | PRESURE TESTED THE HCR VALVE 1500KPA LOW AND 14000KPA HIGH TEST HELD FOR 5MIN WITH NO PRESSURE DROP. ACCUMULATOR TEST: STARTING PRESS 23200 KPA, 3 FUNCTION TEST REMAINING PRESSURE 12000KPA, PUMP UP TIME 96 SEC, PRECHARGE PRESSURE 6500KPA |
| 23:00      | 00:00    | 1.00     | 24.00        | Test BOP                                       | PRESURE TESTED THE HCR VALVE 1500KPA LOW AND 14000KPA HIGH TEST HELD FOR 5MIN WITH NO PRESSURE DROP. ACCUMULATOR TEST: STARTING PRESS 23200 KPA, 3 FUNCTION TEST REMAINING PRESSURE 12000KPA, PUMP UP TIME 96 SEC, PRECHARGE PRESSURE 6500KPA |
| 00:00      | 00:15    | 0.25     | 24.25        |  | PREP THE DRILL FLOOR FOR MAKING UP TOOLS  |
| 00:15      | 00:30    | 0.25     | 24.50        | Directional work                               | PREP THE DRILL FLOOR FOR MAKING UP TOOLS  |
| 00:30      | 00:45    | 0.25     | 24.75        |  | SAFETY MEETING WITH DIRECTIONAL HAND AND CREW   |
| 00:45      | 01:00    | 0.25     | 25.00        | Safety meeting                                 | SAFETY MEETING WITH DIRECTIONAL HAND AND CREW   |
| 01:00      | 02:45    | 1.75     | 26.75        |  | PICK UP AND MAKE UP DIRECTIONAL/ MWD TOOLS  |
| 02:45      | 04:30    | 1.75     | 28.50        | Directional work                               | PICK UP AND MAKE UP DIRECTIONAL/ MWD TOOLS  |
| 09:15      | 14:00    | 4.75     | 38.00        |  | TRIP IN HOLE FROM 0M- 1175M-FULL PIPE AND TEST TOOL @   |
| 04:30      | 09:15    | 4.75     | 33.25        | Trip in hole                                   | TRIP IN HOLE FROM 0M- 1175M FULL PIPE AND TEST TOOL @   |
| 4:00       | 14:15    | 0.25     | 38.25        |  | H2S BOP DRILL WITH BOTH CREWS, WELL SECURE IN 90 SECONDS ALL HANDS TO MUSTER POINT IN 60 SECONDS  |
| 14:15      | 14:30    | 0.25     | 38.50        | Drills/BOP, etc.                               | H2S BOP DRILL WITH BOTH CREWS, WELL SECURE IN 90 SECONDS ALL HANDS TO MUSTER POINT IN 60 SECONDS  |
| 14:30      | 14:45    | 0.25     | 38.75        |  | PRETOUR SAFETY MEETING WITH BOTH CREWS  |
| 14:45      | 15:00    | 0.25     | 39.00        | Safety meeting                                 | PRETOUR SAFETY MEETING WITH BOTH CREWS  |
| 15:00      | 16:00    | 1.00     | 40.00        |  | TRIP IN HOLE FROM 1175M TO 1510M TAG TOP OF PLUG @ 1511M  |
| 16:00      | 17:00    | 1.00     | 41.00        | Trip in hole                                   | TRIP IN HOLE FROM 1175M TO 1510M TAG TOP OF PLUG @ 1511M  |
| 17:00      | 20:00    | 3.00     | 44.00        |  | DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE FROM 1511M TO 1531M  |
| 20:00      | 23:00    | 3.00     | 47.00        | Drill cement/drill out cement/drill float&shoe | DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE FROM 1511M TO 1531M  |
| 23:30      | 00:00    | 0.50     | 48.00        |  | DRILL 156MM HOLE FROM 1534M TO1545  |
| 23:00      | 23:30    | 0.50     | 47.50        | Drill  | DRILL 156MM HOLE FROM 1534M TO1545  |

### MUD CHECKS

|                               |                            |                           |                            |                       |                    |                         |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|--------------------|-------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)       | Potassium (mg/L)        |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HHP Pressure (kPa) | HHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 3,263.98           | 77,350.12               |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)   |                         |
| 1,541.00                      | 1005.0                     | 37                        | 12.5                       |                       |                    |                         |

### MUD ADDITIVES

| Des      | Field Est (Cost/unit) | Consumed |
|----------|-----------------------|----------|
| DRISPAC  | 198.45                | 2.0      |
| DRISPAC  | 198.45                | 4.0      |
| ELZAN    | 498.75                | 2.0      |
| ELZAN    | 498.75                | 2.0      |
| SODA ASH | 19.57                 | 2.0      |
| SODA ASH | 19.57                 | 2.0      |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/8/2011  
Report #: 46.0  
Depth Progress: 11.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 60,361  
Cum Cost to Date: 3,887,692

DFS: 47.44days

### MUD ADDITIVES

| Des      | Field Est (Cost/unit) | Consumed |
|----------|-----------------------|----------|
| STARDRIL |                       | 7.0      |
| STARDRIL |                       | 7.0      |

### MUD PUMPS

| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|----------------|-------------------|---------------------------|
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   | 127.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |

### BIT SUMMARY

| Bit Run   | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes          |
|---|----------------|-----------------|-------------------|--------------------|----------------|---------------------|
| 6   | Bit            | 156.0           | United Diamond    | UD513              | 5954           | S233                |
| Nozzles (mm)  | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull       |
| 14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0 | 1,534.00       | 2,082.89        | 549.85            | 57.50              | 9.6            | 2-3-WT-S-X-2-CT-BHA |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m)  | Cum Len (m) |
|----------------------|---------|---------|-----|----------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.62     | 3,914.20    |
| Drill pipe - Stands  |         |         | 68  | 1,295.42 | 5,209.62    |
| Drill pipe - Stands  |         |         | 48  | 913.92   | 3,904.58    |
| Drill pipe - Stands  |         |         | 59  | 1,123.58 | 2,990.66    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,867.08    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,305.57    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 738.71      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 744.06      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 177.20      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 171.85      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 166.50      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 147.30      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 128.10      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 108.90      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 99.71       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 81.21       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 90.52       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 72.02       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 44.01       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 53.36       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 62.71       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 33.85       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 24.50       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 34.70       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 16.11       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 15.26       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 23.65       |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/8/2011  
Report #: 46.0  
Depth Progress: 11.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 60,361  
Cum Cost to Date: 3,887,692

DFS: 47.44days

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
| MOTOR HS | 64.0    | 120.0   | 1   | 7.54    | 7.72        |

### DRILLING SUMMARY

|                               |                             |                           |                               |                            |                    |                |
|-------------------------------|-----------------------------|---------------------------|-------------------------------|----------------------------|--------------------|----------------|
| Start Depth (mKB)<br>1,534.00 | End Depth (mKB)<br>1,545.00 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>6,000  | Drilling Torque            | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)<br>30               | Motor RPM (rpm)             | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr)<br>0.50 |                    |                |

### SAFETY CHECKS

| Date     | Type           | Des              |
|----------|----------------|------------------|
| 3/8/2011 | Safety Meeting | OVER HEAD LOADS  |
| 3/8/2011 | Safety Meeting | OVER HEAD LOADS  |
| 3/9/2011 | Safety Meeting | CATCHING SAMPLES |
| 3/9/2011 | Safety Meeting | CATCHING SAMPLES |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date     | MD (mKB) | Incl (°) | Azim (°) | TVD (mKB) | NS (m)  | EW (m) | VS (m) | DLS (°/30m) |
|----------|----------|----------|----------|-----------|---------|--------|--------|-------------|
| 3/9/2011 | 1,543.85 | 87.90    | 182.00   | 1,423.88  | -175.71 | 16.18  | 175.90 | 3.86        |
| 3/9/2011 | 1,553.49 | 87.70    | 182.20   | 1,424.25  | -185.34 | 15.83  | 185.52 | 0.88        |
| 3/9/2011 | 1,563.05 | 89.70    | 181.40   | 1,424.47  | -194.89 | 15.53  | 195.07 | 6.76        |
| 3/9/2011 | 1,572.22 | 91.60    | 181.20   | 1,424.36  | -204.06 | 15.32  | 204.23 | 6.25        |
| 3/9/2011 | 1,581.85 | 92.30    | 180.50   | 1,424.04  | -213.68 | 15.18  | 213.85 | 3.08        |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/9/2011  
Report #: 47.0  
Depth Progress: 222.64

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 80,444  
Cum Cost to Date: 3,968,136

|                                  |  |                             |                                       |                                      |
|----------------------------------|--|-----------------------------|---------------------------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills | License #<br>2073                     | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  |                             | Rig Release Date<br>3/21/2011 12:00   | DFS: 48.44days                       |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            |                             | KB-Casing Flange Distance (m)<br>5.02 |                                      |

## Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>1,545.00 | End Depth (mKB)<br>1,767.64 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
| Weather<br>Clear              | Temperature (°C)<br>-27     | Lease Condition                   |                                |

Operation at 6am  
Drilling the lateral at 1800m

Operations Summary  
Drilled 222m of the lateral section from 1545m to 1767m. Slid for 25 of those meters. As per the intruction of our Geologists we are slowly dropping TVD from 1422m to 1418m over the course of the horizontal leg.

Operations Next Report Period  
Drill ahead as per instruction from Geology

Remarks  
Downloaded and Installed Pason/Wellview Upgrade

No accidents, incidents Rig or Directional Issues.  
Nabors Drilling was able to provide us with a third drilling crew. They arrived yesterday, recieved both a general Paramount Orientation and a Rig Specific one as well.  
Neufeld delivered 8,400l of diesel excess from the service rig order.  
UD 513 Bit #6 cost entered  
Hauled 1 load of cuttings to CCS  
Excess casing : 3 joints 244.5mm on 2H-03, 5 joints 177.8mm and 3 joints of 219mm on E-52.

Cameron Hills field communications issues were discussed at the morning field operations meetings as they are every meeting.

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Lead Count<br>32.0         | Personnel Total Hours (hr)<br>768.00 | Cum Personnel Total Hours (hr)<br>30,604.00 |                 |

## DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com  |
|------------|----------|----------|--------------|----------------|--|
| 00:00      | 03:15    | 3.25     | 3.25         | Drill          | DRILL 1556MM HOLE FROM 1545M TO 1576M            |
| 03:15      | 03:30    | 0.25     | 3.50         | Rig Service    | RIG SERVICE, FUNCTION ANNULAR 8 SECONDS TO CLOSE |
| 03:30      | 07:00    | 3.50     | 7.00         | Drill          | DRILL 156MM HOLE FROM 1576M TO 1608M             |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting | SAFETY MEETING WITH BOTH CREWS                   |
| 07:15      | 12:00    | 4.75     | 12.00        | Drill          | DRILL 156MM HOLE FROM 1608M-1671M                |
| 12:00      | 15:00    | 3.00     | 15.00        | Drill          | DRILL 156MM HOLE FROM 1671M-1701M                |
| 15:00      | 15:15    | 0.25     | 15.25        | Safety meeting | SAFETY MEETING WITH BOTH CREWS                   |
| 15:15      | 23:45    | 8.50     | 23.75        | Drill          | DRILL 156MM HOLE FROM 1701M-1767M                |
| 23:45      | 00:00    | 0.25     | 24.00        | Rig Service    | RIG SERVICE, FUNCTION PIPE RAMS (4secs O/C)      |

## MUD CHECKS

|                               |                            |                                 |  |                                   |                           |                          |
|-------------------------------|----------------------------|---------------------------------|--|-----------------------------------|---------------------------|--------------------------|
| Low Gravity Solids (%)<br>1.0 | MBT (kg/m³)                | Oil Water Ratio                 | Chlorides (mg/L)<br>800.000            | Calcium (mg/L)                    | Lime (kg/m³)              | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)<br>0.5                 | Solids (%)<br>1.1                      | Temp Bottom Hole (°C)             | HTHP Pressure (kPa)       | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)       | Daily Mud Field Est (Cost)<br>1,399.99 | Cum Mud Field Est...<br>78,750.11 |                           |                          |
| Depth (mKB)<br>1,755.00       | Density (kg/m³)<br>1010.0  | Funnel Viscosity (s/L)<br>3,370 | pH<br>10.5                             | PV Override (cp)<br>6.0           | YP Override (Pa)<br>0.000 |                          |

## MUD ADDITIVES

| Des     | Field Est (Cost/unit) | Consumed |
|---------|-----------------------|----------|
| CAUSTIC | 41.79                 | 1.0      |
| DRISPAC | 198.45                | 1.0      |
| DRISPAC | 198.45                | 1.0      |
| DRISPAC | 198.45                | 2.0      |





# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/9/2011  
Report #: 47.0  
Depth Progress: 222.64

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 80,444  
Cum Cost to Date: 3,968,136

DFS: 48.44days

### MUD ADDITIVES

| Des      | Field Est (Cost/unit) | Consumed |
|----------|-----------------------|----------|
| SAWDUST  | 6.64                  | 5.0      |
| SAWDUST  | 6.64                  | 80.0     |
| STARDRIL |                       | 5.0      |
| STARDRIL |                       | 5.0      |
| STARDRIL |                       | 11.0     |

### MUD PUMPS

| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
|----------------|-------------------|---------------------------|
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   | 127.0                     |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| 1              |                   |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
| 2,250          | Yes               | 50                        |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
| 2,290          | Yes               | 52                        |

### BIT SUMMARY

| Bit Run   | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes          |
|---|----------------|-----------------|-------------------|--------------------|----------------|---------------------|
|   | Bit            | 156.0           | United Diamond    | UD513              | 5954           | S233                |
| Nozzles (mm)  | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull       |
| 14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0 | 1,534.00       | 2,082.89        | 549.85            | 57.50              | 9.6            | 2-3-WT-S-X-2-CT-BHA |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m)  | Cum Len (m) |
|----------------------|---------|---------|-----|----------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.62     | 3,914.20    |
| Drill pipe - Stands  |         |         | 68  | 1,295.42 | 5,209.62    |
| Drill pipe - Stands  |         |         | 48  | 913.92   | 3,904.58    |
| Drill pipe - Stands  |         |         | 59  | 1,123.58 | 2,990.66    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,867.08    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,305.57    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 738.71      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 744.06      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 177.20      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 171.85      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 166.50      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 147.30      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 128.10      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 108.90      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 99.71       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 81.21       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 90.52       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 72.02       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 44.01       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 53.36       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 62.71       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 33.85       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 24.50       |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/9/2011  
Report #: 47.0  
Depth Progress: 222.64

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 80,444  
Cum Cost to Date: 3,968,136

DFS: 48.44days

### DRILL STRING COMPONENTS

| Item Des   | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|------------|---------|---------|-----|---------|-------------|
| ORIENT SUB | 64.0    | 120.0   | 1   | 0.85    | 34.70       |
| ORIENT SUB | 64.0    | 120.0   | 1   | 0.85    | 16.11       |
| MOTOR HS   | 64.0    | 120.0   | 1   | 7.54    | 15.26       |
| MOTOR HS   | 64.0    | 120.0   | 1   | 7.54    | 23.65       |
| MOTOR HS   | 64.0    | 120.0   | 1   | 7.54    | 7.72        |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                                 |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| 1,545.00          | 1,671.00        |                           | 8,000                         |                    |                                 |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |
|                   | 35              |                           | 35                            | 8.00               |                                 |                |
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| 1,671.00          | 1,767.64        |                           | 6,000                         |                    |                                 |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |
|                   | 40              |                           | 40                            | 9.00               |                                 |                |

### SAFETY CHECKS

| Date      | Type           | Des                    |
|-----------|----------------|------------------------|
| 3/9/2011  | Safety Meeting | STEAM USE ON THE FLOOR |
| 3/10/2011 | Safety Meeting | NEW WORKERS TO RIG     |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m <sup>3</sup> ) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|------------------------------|-----------------|
|          |         |         |                 |                              |                 |

### SURVEY DATA

| Date     | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m)  | EW (m) | VS (m) | DLS (°/30m) |
|----------|----------|----------|---------|-----------|---------|--------|--------|-------------|
| 3/9/2011 | 1,705.54 | 89.80    | 179.90  | 1,424.76  | -337.33 | 13.74  | 337.47 | 3.13        |
| 3/9/2011 | 1,715.15 | 89.00    | 179.50  | 1,424.86  | -346.94 | 13.79  | 347.08 | 2.79        |
| 3/9/2011 | 1,724.79 | 91.10    | 179.20  | 1,424.85  | -356.58 | 13.90  | 356.72 | 6.60        |
| 3/9/2011 | 1,734.41 | 93.00    | 179.30  | 1,424.51  | -366.19 | 14.03  | 366.34 | 5.93        |
| 3/9/2011 | 1,744.02 | 93.80    | 178.70  | 1,423.94  | -375.78 | 14.19  | 375.93 | 3.12        |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 3/10/2011**  
**Report #: 48.0**  
**Depth Progress: 155.32**

**Business Unit: NE BC & NWT COU**  
**Rig: 24 NABORS DRILLING**

**Total AFE Amount: 2,535,440**  
**AFE Number: 10N110009**  
**Daily Cost: 49,652**  
**Cum Cost to Date: 4,017,788**

|                                  |  |                                       |                   |                                      |
|----------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UMI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00   |                   | DFS: 49.44days                       |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>1,767.00 | End Depth (mKB)<br>1,922.32 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-30 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
**Drilling the lateral at 1953m**

Operations Summary  
 Drilled from 1767m to 1922m As per the instruction of our Geologists we are slowly dropping TVD from 1422m to 1418m over the course of the horizontal leg. Spent 1.5hrs sliding 7.5m. At the survey prior to midnight we are .74m below and 5.12m right of the target line.  
 Conducted a sour bop drill and practiced search patterns with all drilling personnel

Operations Next Report Period  
 Drill ahead as per instruction from Geology

Remarks  
 Hauled 1 load of cuttings to CCS  
 Excess casing : 3 joints 244.5mm on 2H-03, 5 joints 177.8mm and 3 joints of 219mm on E-52.

Cameron Hills field communications issues were discussed at the morning field operations meetings as they are every meeting.

|                            |                            |                      |                 |
|----------------------------|----------------------------|----------------------|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units) | Avg Trip Gas (Units) | Max H2S (Units) |
|----------------------------|----------------------------|----------------------|-----------------|

|                    |                                      |   |
|--------------------|--------------------------------------|---|
| Head Count<br>33.0 | Personnel Total Hours (hr)<br>792.00 | Cum Personnel Total Hours (hr)<br>31,396.00 |
|--------------------|--------------------------------------|---|

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                |   |
|------------------|----------|----------|--------------|----------------|---|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com   |
| 00:00            | 07:00    | 7.00     | 7.00         | Drill          | DRILL 156MM HOLE FROM 1767M-1805M   |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting | SAFETY MEETING W/ BOTH CREWS  |
| 07:15            | 11:45    | 4.50     | 11.75        | Drill          | DRILL 156MM HOLE FROM 1805M-1848M   |
| 11:45            | 12:00    | 0.25     | 12.00        | Rig Service    | RIG SERVICE, FUNCTION ANNULAR (8sec 0/C), HCR (2sec)                      |
| 12:00            | 19:00    | 7.00     | 19.00        | Drill          | DRILL 156MM HOLE FROM 1848M-1887M   |
| 19:00            | 19:15    | 0.25     | 19.25        | Safety meeting | SAFETY MEETING / BOP DRILL WITH CM, RM, RIG CREW AND ALL PERSONEL ON SITE |
| 19:15            | 00:00    | 4.75     | 24.00        | Drill          | DRILL 156MM HOLE FROM 1887M-1922M   |

|                               |                            |                                 |                                      |                                   |                           |                          |  |
|-------------------------------|----------------------------|---------------------------------|--------------------------------------|-----------------------------------|---------------------------|--------------------------|--|
| <b>MUD CHECKS</b>             |                            |                                 |                                      |                                   |                           |                          |  |
| Low Gravity Solids (%)<br>1.0 | MBT (kg/m³)                | Oil Water Ratio                 | Chlorides (mg/L)<br>1,600.000        | Calcium (mg/L)                    | Lime (kg/m³)              | Potassium (mg/L)         |  |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)<br>0.5                 | Solids (%)<br>1.8                    | Temp Bottom Hole (°C)             | HTHP Pressure (kPa)       | HTHP Filtrate (mL/30min) |  |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)       | Daily Mud Field Est (Cost)<br>490.59 | Cum Mud Field Est...<br>79,240.70 |                           |                          |  |
| Depth (mKB)<br>1,913.00       | Density (kg/m³)<br>1030.0  | Funnel Viscosity (s/L)<br>3,370 | pH<br>10.0                           | PV Override (cp)<br>10.0          | YP Override (Pa)<br>2.729 |                          |  |

| <b>MUD ADDITIVES</b> |                       |          |
|----------------------|-----------------------|----------|
| Des                  | Field Est (Cost/unit) | Consumed |
| DRISPAC              | 198.45                | 1.0      |
| STARDRIL             | 146.07                | 2.0      |

|                  |                   |                           |                           |
|------------------|-------------------|---------------------------|---------------------------|
| <b>MUD PUMPS</b> |                   |                           |                           |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)          |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)             | Volumetric Efficiency (%) |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)<br>127.0 | 800.0                     |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)             | Volumetric Efficiency (%) |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)          |                           |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/10/2011  
 Report #: 48.0  
 Depth Progress: 155.32

Business Unit: NE BC & NWT COU  
 Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 49,652  
 Cum Cost to Date: 4,017,788

DFS: 49.44days

|                |       |                   |     |               |    |                           |
|----------------|-------|-------------------|-----|---------------|----|---------------------------|
| Pressure (kPa) | 2,270 | Slow Speed Check? | Yes | Strokes (spm) | 49 | Volumetric Efficiency (%) |
| Pressure (kPa) | 2,290 | Slow Speed Check? | Yes | Strokes (spm) | 50 | Volumetric Efficiency (%) |

### BIT SUMMARY

|              |   |                |          |                 |          |                   |                |                    |       |                |      |               |                     |
|--------------|---|----------------|----------|-----------------|----------|-------------------|----------------|--------------------|-------|----------------|------|---------------|---------------------|
| Bit Run      | 6   | Bit Type       | Bit      | Size (mm)       | 156.0    | Make              | United Diamond | Model              | UD513 | Serial Number  | 5954 | IADC Codes    | S233                |
| Nozzles (mm) | 14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0 | Depth In (mKB) | 1,534.00 | Depth Out (mKB) | 2,082.89 | Depth Drilled (m) | 549.85         | Drilling Time (hr) | 57.50 | BHA ROP (m/hr) | 9.6  | IADC Bit Dull | 2-3-WT-S-X-2-CT-BHA |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m)  | Cum Len (m) |
|----------------------|---------|---------|-----|----------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.62     | 3,914.20    |
| Drill pipe - Stands  |         |         | 68  | 1,295.42 | 5,209.62    |
| Drill pipe - Stands  |         |         | 48  | 913.92   | 3,904.58    |
| Drill pipe - Stands  |         |         | 59  | 1,123.58 | 2,990.66    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,867.08    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,305.57    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 738.71      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 744.06      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 177.20      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 171.85      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 166.50      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 147.30      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 128.10      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 108.90      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 99.71       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 81.21       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 90.52       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 72.02       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 44.01       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 53.36       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 62.71       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 33.85       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 24.50       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 34.70       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 16.11       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 15.26       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 23.65       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 7.72        |

### DRILLING SUMMARY

|                   |          |                 |          |                           |       |                               |                    |                |
|-------------------|----------|-----------------|----------|---------------------------|-------|-------------------------------|--------------------|----------------|
| Start Depth (mKB) | 1,767.00 | End Depth (mKB) | 1,848.00 | ROP Instantaneous (min/m) | 6,000 | Drilling Torque               | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | 40       | Motor RPM (rpm) | 40       | Bit RPM (rpm)             | 40    | Slack-Off String Weight (daN) | Drilling Time (hr) | 11.50          |
| Start Depth (mKB) | 1,848.00 | End Depth (mKB) | 1,922.32 | ROP Instantaneous (min/m) | 6,000 | Drilling Torque               | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | 40       | Motor RPM (rpm) | 40       | Bit RPM (rpm)             | 40    | Slack-Off String Weight (daN) | Drilling Time (hr) | 11.00          |

### SAFETY CHECKS

| Date      | Type           | Des                 |
|-----------|----------------|---------------------|
| 3/10/2011 | Safety Meeting | LOCK OUT PROCEDURES |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/10/2011  
Report #: 48.0  
Depth Progress: 155.32

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 49,652  
Cum Cost to Date: 4,017,788

DFS: 49.44days

#### SAFETY CHECKS

| Date      | Type           | Des                |
|-----------|----------------|--------------------|
| 3/11/2011 | Safety Meeting | SCBA PACK TRAINING |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m)  | EW (m) | VS (m) | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|---------|--------|--------|-------------|
| 3/10/2011 | 1,868.15 | 89.20    | 180.20  | 1,421.31  | -499.85 | 13.83  | 499.99 | 3.63        |
| 3/10/2011 | 1,877.78 | 89.10    | 180.00  | 1,421.46  | -509.48 | 13.81  | 509.62 | 0.70        |
| 3/10/2011 | 1,887.42 | 88.40    | 180.60  | 1,421.67  | -519.12 | 13.76  | 519.25 | 2.87        |
| 3/10/2011 | 1,897.02 | 88.30    | 180.90  | 1,421.94  | -528.71 | 13.63  | 528.84 | 0.99        |
| 3/10/2011 | 1,906.68 | 88.20    | 180.90  | 1,422.24  | -538.37 | 13.48  | 538.50 | 0.31        |

#### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/11/2011  
Report #: 49.0  
Depth Progress: 160.89

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 55,850  
Cum Cost to Date: 4,073,637

|                                  |  |                                       |                   |                                      |
|----------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     | Rig Release Date<br>3/21/2011 12:00            |                                       | DFS: 50.44days    |                                      |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>1,922.00 | End Depth (mKB)<br>2,082.89 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-28 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Making up bit #7

Operations Summary  
Drilled from 1922m to 2082m As per the instruction of our Geologists. Spent 1.5hrs sliding 7m. At the survey prior to tripping we are .19m above and 2.60m left of the target line. Projection at the bit Inc 89.3, Azm 177.80, TVD 1422.63m  
We tripped out of the hole to perform a pipe swap have a fresh bit and motors for the second half of the lateral section. We were experiencing difficulty sliding and steering the motor and needed to wipe the hole regardless.

Operations Next Report Period  
Trip in the hole, resume drilling the lateral at 2082.89m

Remarks  
Hauled 2 loads of cuttings to CCS  
One load of sawdust was delivered  
Excess casing : 3 joints 244.5mm on 2H-03, 5 joints 177.8mm, 2 177.8mm marker joints and 3 joints of 219mm on E-52.

Cameron Hills field communications issues were discussed at the morning field operations meetings as they are every meeting.

|                            |                                      |   |                 |
|----------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units) | Avg Background Gas (Units)<br>50.00  | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>33.0         | Personnel Total Hours (hr)<br>792.00 | Cum Personnel Total Hours (hr)<br>32,188.00 |                 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2           | Com  |
|------------|----------|----------|--------------|------------------|--|
| 00:00      | 00:15    | 0.25     | 0.25         | Rig Service      | RIG SERVICE, GREASED DRIVE LINE, BREAK PINS AND LINKAGES, TABLE, KELLY BUSHINGS, BLOCKS AND WASH PIPE. CHECKED OILS IN FLOOR MOTOR, RIGHT ANGLE DRIVE, CHAINE CASE, KELLY SPINNER AND TABLE / FUNCTION PIPE RAMS (3secs) |
| 00:15      | 07:00    | 6.75     | 7.00         | Drill            | DRILL 156MM HOLE FROM 1922M-1960M  |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting   | SAFETY MEETING W/BOTH CREWS  |
| 07:15      | 12:00    | 4.75     | 12.00        | Drill            | DRILL 156MM HOLE FROM 1960M-1996M  |
| 12:00      | 18:45    | 6.75     | 18.75        | Drill            | DRILL 156MM HOLE FROM 1996M-2067M  |
| 18:45      | 19:00    | 0.25     | 19.00        | Rig Service      | RIG SERVICE, FUNCT. ANNULAR (sec), HCR (sec)   |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting   | SAFETY MEETING WITH BOTH CREWS   |
| 19:15      | 23:00    | 3.75     | 23.00        | Drill            | DRILL 156MM HOLE FROM 2067M-2082M FLOW CHECK   |
| 23:00      | 00:00    | 1.00     | 24.00        | Trip out of hole | TRIP OUT OF HOLE FROM 2082M-1794M  |

|                               |                            |                              |                            |                       |                     |                          |  |
|-------------------------------|----------------------------|------------------------------|----------------------------|-----------------------|---------------------|--------------------------|--|
| <b>MUD CHECKS</b>             |                            |                              |                            |                       |                     |                          |  |
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio              | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |  |
| Electric Slab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                     | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |  |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)    | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 1,998.66            | 81,239.36                |  |
| Depth (mKB)<br>2,061.00       | Density (kg/m³)<br>1040.0  | Funnel Viscosity (s/L)<br>38 | pH<br>9.5                  | PV Override (cp)      | YP Override (Pa)    |                          |  |

| <b>MUD ADDITIVES</b> |                       |          |
|----------------------|-----------------------|----------|
| Des                  | Field Est (Cost/unit) | Consumed |
| ALKAPAM 1103D        | 227.00                | 6.0      |
| DRISPAC              | 198.45                | 1.0      |
| STARDRIL             | 146.07                | 3.0      |

|                  |                   |                  |
|------------------|-------------------|------------------|
| <b>MUD PUMPS</b> |                   |                  |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/11/2011  
Report #: 49.0  
Depth Progress: 160.89

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 55,850  
Cum Cost to Date: 4,073,637

DFS: 50.44days

|                         |                          |                     |                           |
|-------------------------|--------------------------|---------------------|---------------------------|
| Pressure (kPa)          | Slow Speed Check?        | Strokes (spm)       | Volumetric Efficiency (%) |
| Pump Number<br>1        | Rod Diameter (mm)        | 127.0               | Pump Rating (kW)<br>800.0 |
| Pressure (kPa)          | Slow Speed Check?        | Strokes (spm)       | Volumetric Efficiency (%) |
| Pump Number<br>1        | Rod Diameter (mm)        |                     | Pump Rating (kW)          |
| Pressure (kPa)<br>2,600 | Slow Speed Check?<br>Yes | Strokes (spm)<br>51 | Volumetric Efficiency (%) |
| Pressure (kPa)<br>2,600 | Slow Speed Check?<br>Yes | Strokes (spm)<br>51 | Volumetric Efficiency (%) |

### BIT SUMMARY

|   |                            |                             |                             |                             |                       |                                      |
|---|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------|--------------------------------------|
| Bit Run<br>6  | Bit Type<br>Bit            | Size (mm)<br>156.0          | Make<br>United Diamond      | Model<br>UD513              | Serial Number<br>5954 | IADC Codes<br>S233                   |
| Nozzles (mm)<br>14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0/14.0 | Depth In (mKB)<br>1,534.00 | Depth Out (mKB)<br>2,082.89 | Depth Drilled (m)<br>549.85 | Drilling Time (hr)<br>57.50 | BHA ROP (m/hr)<br>9.6 | IADC Bit Dull<br>2-3-WT-S-X-2-CT-BHA |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m)  | Cum Len (m) |
|----------------------|---------|---------|-----|----------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.62     | 3,914.20    |
| Drill pipe - Stands  |         |         | 68  | 1,295.42 | 5,209.62    |
| Drill pipe - Stands  |         |         | 48  | 913.92   | 3,904.58    |
| Drill pipe - Stands  |         |         | 59  | 1,123.58 | 2,990.66    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,867.08    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,305.57    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 738.71      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 744.06      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 177.20      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 171.85      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 166.50      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 147.30      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 128.10      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 108.90      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 99.71       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 81.21       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 90.52       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 72.02       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 44.01       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 53.36       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 62.71       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 33.85       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 24.50       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 34.70       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 16.11       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 15.26       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 23.65       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 7.72        |

### DRILLING SUMMARY

|                               |                             |                           |                               |                             |                    |                |
|-------------------------------|-----------------------------|---------------------------|-------------------------------|-----------------------------|--------------------|----------------|
| Start Depth (mKB)<br>1,922.00 | End Depth (mKB)<br>1,996.00 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>10,000 | Drilling Torque             | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)<br>40               | Motor RPM (rpm)             | Bit RPM (rpm)<br>40       | Slack-Off String Weight (daN) | Drilling Time (hr)<br>11.50 |                    |                |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/11/2011  
Report #: 49.0  
Depth Progress: 160.89

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 55,850  
Cum Cost to Date: 4,073,637

DFS: 50.44days

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                                 |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| 1,996.00          | 2,082.89        |                           | 12,000                        |                    |                                 |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |
| 40                |                 | 40                        |                               | 6.00               |                                 |                |

### SAFETY CHECKS

| Date      | Type           | Des     |
|-----------|----------------|---------|
| 3/12/2011 | Safety Meeting | REAMING |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m <sup>3</sup> ) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|------------------------------|-----------------|
|          |         |         |                 |                              |                 |

### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m)  | EW (m) | VS (m) | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|---------|--------|--------|-------------|
| 3/11/2011 | 2,029.52 | 90.30    | 177.10  | 1,423.33  | -661.15 | 16.29  | 661.30 | 2.91        |
| 3/11/2011 | 2,039.12 | 90.20    | 177.60  | 1,423.29  | -670.74 | 16.74  | 670.89 | 1.59        |
| 3/11/2011 | 2,048.74 | 89.40    | 176.50  | 1,423.32  | -680.34 | 17.23  | 680.51 | 4.24        |
| 3/11/2011 | 2,057.97 | 89.20    | 177.00  | 1,423.44  | -689.56 | 17.76  | 689.73 | 1.75        |
| 3/11/2011 | 2,067.55 | 89.60    | 176.90  | 1,423.54  | -699.12 | 18.27  | 699.30 | 1.29        |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |





# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/12/2011  
Report #: 50.0  
Depth Progress: 6.20

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 98,737  
Cum Cost to Date: 4,172,375

|                                  |  |                             |                                       |                                      |
|----------------------------------|--|-----------------------------|---------------------------------------|--------------------------------------|
| API/UWV<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills | License #<br>2073                     | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  |                             | Rig Release Date<br>3/21/2011 12:00   | DFS: 51.44days                       |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            |                             | KB-Casing Flange Distance (m)<br>5.02 |                                      |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>2,082.00 | End Depth (mKB)<br>2,088.20 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-26 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Drilling the lateral at 2119m

Operations Summary  
Completed the trip out of the hole, removed bit # 6 and laid down the motor. Installed a new MWD tool set the HR motor to 1.50 deg made up a new UD513 PDC and tripped in the hole. Washed and reamed through several tight spots areas with dog legs in the wellbore. Washed and reamed the last 79m to bottom (2003 to 2082m)  
Drilled from 2082m to 2088m As per the instruction of our Geologists. Spent 2.25 hrs sliding 2m. At the survey prior to midnight we are .10m above and 2.90m left of the target line. We were experiencing difficulty sliding and steering, mobilized some EZ Drill to assist with this problem. Pumped high vis sweeps to clean any surplus drill solids in the hole.

Operations Next Report Period  
Drill ahead as per instruction from Geology

Remarks  
Hauled 1 load of cuttings to CCS  
Excess casing : 3 joints 244.5mm on 2H-03, 5 joints 177.8mm, 2 177.8mm marker joints and 3 joints of 219mm on E-52.  
UD 513 Bit #6 cost entered  
26,000 L of fuel delivered  
Cameron Hills field communications issues were discussed at the morning field operations meetings as they are every meeting.

|                                      |                                      |   |                 |
|--------------------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units)<br>300.00 | Avg Background Gas (Units)<br>40.00  | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Lead Count<br>33.0                   | Personnel Total Hours (hr)<br>792.00 | Cum Personnel Total Hours (hr)<br>32,980.00 |                 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |

| TIME LOG SUMMARY |          |          |              |                  |   |
|------------------|----------|----------|--------------|------------------|---|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2           | Com   |
| 00:00            | 04:00    | 4.00     | 4.00         | Trip out of hole | TRIP OUT OF HOLE FROM 1794M-36.42M  |
| 04:00            | 07:00    | 3.00     | 7.00         | Directional work | DIRECTIONAL BREAK DOWN TOOLS AND LAY OUT THE OLD MUD MOTOR,PICK UP NEW MOTOR AND DIAL IT DOWN FROM 1.83 TO 1.50 DEG, SCRIBE MAKE UP BIT # 7   |
| 07:00            | 07:15    | 0.25     | 7.25         | Safety meeting   | CREW CHANGE SAFETY MEETING AND HANDOVER   |
| 07:15            | 12:00    | 4.75     | 12.00        | Trips            | TRIP IN THE HOLE, TESTED THE MWD TOOL AT 400M AND 1000M. FILLED PIPE AND BROKE CIRCULATION AT THE SHOE / FLOW CHECK @ 1236M   |
| 12:00            | 17:15    | 5.25     | 17.25        | Trips            | CONT. RIH FR/ 1236M TO 1622M, WASH TIGHT SPOT @ 1622M, RIH FR/ 1622M-1725M, WASH FR/ 1725M-1740M, RIH FR/ 1740M-1767M, WASH FR/ 1767M-1772M, RIH FR/ 1772M-1977M, WASH FR/ 1977M-1981M, RIH FR/ 1981M-2003M |
| 17:15            | 19:00    | 1.75     | 19.00        | Reaming          | REAMING TIGHT HOLE FROM 2003M-2006M   |
| 19:00            | 19:15    | 0.25     | 19.25        | Safety meeting   | SAFETY MEETING WITH BOTH CREWS  |
| 19:15            | 21:30    | 2.25     | 21.50        | Ream & Clean     | REAM & CLEAN FROM 2006M-2083M   |
| 21:30            | 00:00    | 2.50     | 24.00        | Drill            | DRILL 156MM HOLE FROM 2083M-2088M   |

| MUD CHECKS                    |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 5,768.40            | 87,007.76                |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |
|                               | 1035.0                     | 43                        | 9.5                        |                       |                     |                          |

| MUD ADDITIVES |                       |          |
|---------------|-----------------------|----------|
| Des           | Field Est (Cost/unit) | Consumed |
| EZ DRILL      | 1,922.80              | 3.0      |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/12/2011  
Report #: 50.0  
Depth Progress: 6.20

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 98,737  
Cum Cost to Date: 4,172,375

DFS: 51.44days

#### MUD PUMPS

|                  |                   |                  |
|------------------|-------------------|------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |

#### BIT SUMMARY

|  |                            |                             |                             |                             |                       |                        |
|--|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------|------------------------|
| Bit Run<br>7                                 | Bit Type<br>Bit            | Size (mm)<br>156.0          | Make<br>ULTERRA             | Model<br>155UD513           | Serial Number<br>U563 | IADC Codes<br>S132     |
| Nozzles (mm)<br>14.0/14.0/14.0/14.0/1<br>2.0 | Depth In (mKB)<br>2,082.00 | Depth Out (mKB)<br>2,333.73 | Depth Drilled (m)<br>251.93 | Drilling Time (hr)<br>38.00 | BHA ROP (m/hr)<br>6.6 | IADC Bit Dull<br>----- |

#### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m)  | Cum Len (m) |
|----------------------|---------|---------|-----|----------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.70     | 5,028.63    |
| Drill pipe - Stands  |         |         | 83  | 1,580.60 | 6,609.23    |
| Drill pipe - Singles |         |         | 1   | 9.13     | 5,018.93    |
| Drill pipe - Stands  |         |         | 76  | 1,446.69 | 4,448.29    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 5,009.80    |
| Drill pipe - Stands  |         |         | 89  | 1,695.91 | 3,001.60    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,300.34    |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 1,305.69    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 10  | 93.63    | 738.83      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 626.00      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 645.20      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 50  | 467.93   | 620.65      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 143.53      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 152.72      |
| 120 SINGLES          | 84.0    | 102.0   | 1   |          | 124.33      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 124.33      |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 115.14      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 105.83      |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 81.48       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 90.83       |
| 2 SINGLES            | 84.0    | 102.0   | 1   | 9.65     | 100.48      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 61.72       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 62.57       |
| DP(4.0")             | 84.0    | 102.0   | 1   | 9.60     | 72.17       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 43.18       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 42.33       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 52.37       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 25.48       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 34.79       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 17.94       |
| ORIENT SUB           |         | 120.0   | 1   | 0.85     | 8.59        |
| MOTOR LS             | 64.0    | 102.0   | 1   | 7.56     | 7.74        |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/12/2011  
Report #: 50.0  
Depth Progress: 6.20

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 98,737  
Cum Cost to Date: 4,172,375

DFS: 51.44days

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| 2,082.00          | 2,088.20        |                           | 8,500                         |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |
| 40                |                 | 40                        |                               | 1.50               |                    |                |

#### SAFETY CHECKS

| Date      | Type           | Des               |
|-----------|----------------|-------------------|
| 3/12/2011 | Safety Meeting | TRANSFERRING FUEL |
| 3/13/2011 | Safety Meeting | FACE SHEILD USE   |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

#### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

#### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/13/2011  
Report #: 51.0  
Depth Progress: 121.09

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 59,666  
Cum Cost to Date: 4,232,040

|                                  |  |                                       |                   |                                      |
|----------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     | Rig Release Date<br>3/21/2011 12:00            |                                       | DFS: 52.44days    |                                      |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

## Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>2,088.00 | End Depth (mKB)<br>2,209.09 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                                       |                         |                 |
|---------------------------------------|-------------------------|-----------------|
| Weather<br>Clear, snowed a few inches | Temperature (°C)<br>-22 | Lease Condition |
|---------------------------------------|-------------------------|-----------------|

Operation at 6am  
Drilling the lateral at 2235m

Operations Summary  
Drilled from 2088m to 2209m As per the instruction of our Geologists. Spent 7 hrs sliding 13m. At the survey prior to midnight we are 2.07m above and 5.10 m left of the target line. We are still experiencing difficulty sliding and steering, Viscosified sweeps and EZ Drill additions do not seem to assist with this problem.

Operations Next Report Period  
Drill ahead as per instruction from Geology

Remarks  
Hauled 1 load of cuttings to CCS  
Excess casing : 3 joints of 219mm on E-52.  
106 joints of 114.3mm liner, the packers plus reamer and new jars were delivered by Withers LP, all excess casing from this well were returned to Grande Prairie.  
Data log crew was mobilized from Calgary  
Cameron Hills field communications issues were discussed at the morning field operations meetings as they are every day.

|                                      |                                      |   |                 |
|--------------------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units)<br>370.00 | Avg Background Gas (Units)<br>35.00  | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>33.0                   | Personnel Total Hours (hr)<br>792.00 | Cum Personnel Total Hours (hr)<br>33,772.00 |                 |

## DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com  |
|------------|----------|----------|--------------|----------------|--|
| 00:00      | 02:00    | 2.00     | 2.00         | Drill          | DRILL 156MM HOLE FROM 2088M-2110M                    |
| 02:00      | 02:15    | 0.25     | 2.25         | Rig Service    | RIG SERVICE, FCT ANNULAR (8sec O/C)                  |
| 02:15      | 06:00    | 3.75     | 6.00         | Drill          | DRILL 156MM HOLE FROM 2110M-2120M                    |
| 06:00      | 06:15    | 0.25     | 6.25         | Safety meeting | SAFETY MEETING WITH BOTH CREWS                       |
| 06:15      | 11:00    | 4.75     | 11.00        | Drill          | DRILL 156MM HOLE FROM 2120M-2147M                    |
| 11:00      | 15:00    | 4.00     | 15.00        | Drill          | DRILL 156MM HOLE F/ 2147M-2176M                      |
| 15:00      | 15:15    | 0.25     | 15.25        | Rig Service    | RIG SERVICE, FUNCTION PIPE RAMS (3secs), HCR (2secs) |
| 15:15      | 18:00    | 2.75     | 18.00        | Drill          | DRILL 156MM HOLE F/ 2176M-2189M                      |
| 18:00      | 18:15    | 0.25     | 18.25        | Safety meeting | SAFETY MEETING WITH BOTH CREWS                       |
| 18:15      | 23:00    | 4.75     | 23.00        | Drill          | DRILL 156MM HOLE FROM 2189M-2209M                    |

## MUD CHECKS

|                               |                            |                                 |  |                                   |                           |                          |
|-------------------------------|----------------------------|---------------------------------|--|-----------------------------------|---------------------------|--------------------------|
| Low Gravity Solids (%)<br>1.0 | MBT (kg/m³)                | Oil Water Ratio                 | Chlorides (mg/L)<br>1,600.000          | Calcium (mg/L)                    | Lime (kg/m³)              | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)<br>0.5                 | Solids (%)<br>1.8                      | Temp Bottom Hole (°C)             | HTHP Pressure (kPa)       | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)       | Daily Mud Field Est (Cost)<br>1,022.97 | Cum Mud Field Est...<br>88,030.73 |                           |                          |
| Depth (mKB)<br>2,200.00       | Density (kg/m³)<br>1030.0  | Funnel Viscosity (s/L)<br>3,715 | pH<br>10.0                             | PV Override (cp)<br>10.0          | YP Override (Pa)<br>2,729 |                          |

## MUD ADDITIVES

| Des      | Field Est (Cost/unit) | Consumed |
|----------|-----------------------|----------|
| CAUSTIC  | 41.79                 | 1.0      |
| DRISPAC  | 198.45                | 2.0      |
| STARDRIL | 146.07                | 4.0      |

## MUD PUMPS

|                |                   |                           |
|----------------|-------------------|---------------------------|
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)             |
|                |                   | Volumetric Efficiency (%) |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/13/2011  
 Report #: 51.0  
 Depth Progress: 121.09

Business Unit: NE BC & NWT COU  
 Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 59,666  
 Cum Cost to Date: 4,232,040

DFS: 52.44days

#### MUD PUMPS

|                         |                            |                           |
|-------------------------|----------------------------|---------------------------|
| Pump Number<br>1        | Rod Diameter (mm)<br>127.0 | Pump Rating (kW)<br>800.0 |
| Pressure (kPa)          | Slow Speed Check?          | Strokes (spm)             |
| Pump Number<br>1        | Rod Diameter (mm)          | Pump Rating (kW)          |
| Pressure (kPa)<br>2,803 | Slow Speed Check?<br>Yes   | Strokes (spm)<br>50       |
| Pressure (kPa)<br>2,800 | Slow Speed Check?<br>Yes   | Strokes (spm)<br>50       |

#### BIT SUMMARY

|  |                            |                             |                             |                             |                       |                        |
|--|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------|------------------------|
| Bit Run<br>7                                 | Bit Type<br>Bit            | Size (mm)<br>156.0          | Make<br>ULTERRA             | Model<br>155UD513           | Serial Number<br>U563 | IADC Codes<br>S132     |
| Nozzles (mm)<br>14.0/14.0/14.0/14.0/1<br>2.0 | Depth In (mKB)<br>2,082.00 | Depth Out (mKB)<br>2,333.73 | Depth Drilled (m)<br>251.93 | Drilling Time (hr)<br>38.00 | BHA ROP (m/hr)<br>6.6 | IADC Bit Dull<br>----- |

#### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m)  | Cum Len (m) |
|----------------------|---------|---------|-----|----------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.70     | 5,028.63    |
| Drill pipe - Stands  |         |         | 83  | 1,580.60 | 6,609.23    |
| Drill pipe - Singles |         |         | 1   | 9.13     | 5,018.93    |
| Drill pipe - Stands  |         |         | 76  | 1,446.69 | 4,448.29    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 5,009.80    |
| Drill pipe - Stands  |         |         | 89  | 1,695.91 | 3,001.60    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,300.34    |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 1,305.69    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 10  | 93.63    | 738.83      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 626.00      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 645.20      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 50  | 467.93   | 620.65      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 143.53      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 152.72      |
| 120 SINGLES          | 84.0    | 102.0   | 1   |          | 124.33      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 124.33      |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 115.14      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 105.83      |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 81.48       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 90.83       |
| 2 SINGLES            | 84.0    | 102.0   | 1   | 9.65     | 100.48      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 61.72       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 62.57       |
| DP(4.0")             | 84.0    | 102.0   | 1   | 9.60     | 72.17       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 43.18       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 42.33       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 52.37       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 25.48       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 34.79       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 17.94       |
| ORIENT SUB           |         | 120.0   | 1   | 0.85     | 8.59        |
| MOTOR LS             | 64.0    | 102.0   | 1   | 7.56     | 7.74        |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/13/2011  
Report #: 51.0  
Depth Progress: 121.09

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 59,666  
Cum Cost to Date: 4,232,040

DFS: 52.44days

### DRILLING SUMMARY

|                               |                             |                           |                              |                               |                             |                |
|-------------------------------|-----------------------------|---------------------------|------------------------------|-------------------------------|-----------------------------|----------------|
| Start Depth (mKB)<br>2,088.00 | End Depth (mKB)<br>2,147.00 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>9,000 | Drilling Torque               | Flow Rate (m³/min)          | dP (SPP) (kPa) |
| RPM (rpm)<br>40               | Motor RPM (rpm)             | Bit RPM (rpm)             | 40                           | Slack-Off String Weight (daN) | Drilling Time (hr)<br>10.50 |                |
| Start Depth (mKB)<br>2,147.00 | End Depth (mKB)<br>2,209.09 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>9,000 | Drilling Torque               | Flow Rate (m³/min)          | dP (SPP) (kPa) |
| RPM (rpm)<br>70               | Motor RPM (rpm)             | Bit RPM (rpm)             | 70                           | Slack-Off String Weight (daN) | Drilling Time (hr)<br>7.00  |                |

### SAFETY CHECKS

| Date      | Type           | Des                       |
|-----------|----------------|---------------------------|
| 3/13/2011 | Safety Meeting | AUTOMATIC START EQUIPMENT |
| 3/14/2011 | Safety Meeting | UNLOADING CASING          |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m)  | EW (m) | VS (m) | DLS (*/30m) |
|-----------|----------|----------|---------|-----------|---------|--------|--------|-------------|
| 3/13/2011 | 2,157.21 | 92.00    | 178.80  | 1,422.30  | -788.70 | 21.58  | 788.91 | 0.82        |
| 3/13/2011 | 2,162.85 | 92.30    | 178.10  | 1,422.09  | -794.34 | 21.73  | 794.54 | 4.05        |
| 3/13/2011 | 2,172.48 | 92.30    | 177.70  | 1,421.70  | -803.95 | 22.08  | 804.16 | 1.25        |
| 3/13/2011 | 2,181.11 | 92.70    | 178.80  | 1,421.33  | -812.57 | 22.34  | 812.78 | 4.07        |
| 3/13/2011 | 2,191.53 | 92.60    | 178.40  | 1,420.84  | -822.97 | 22.60  | 823.19 | 1.19        |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/14/2011  
Report #: 52.0  
Depth Progress: 124.64

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 56,677  
Cum Cost to Date: 4,288,717

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 53.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

## Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>2,209.09 | End Depth (mKB)<br>2,333.73 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                                       |                         |                 |
|---------------------------------------|-------------------------|-----------------|
| Weather<br>Clear, snowed a few inches | Temperature (°C)<br>-27 | Lease Condition |
|---------------------------------------|-------------------------|-----------------|

Operation at 6am  
Drilling the lateral at 2370m

Operations Summary  
Drilled from 2209m to 2333m As per the instruction of our Geologists. Spent 7.75 hrs sliding 20m. At the survey prior to midnight we were 1.50m above and 2.80m left of the target line. We are still experiencing difficulty sliding and steering, Rocking the string consistently while sliding is the only way to maintain WOB and a decent penetration rate.

Drilled through some large fractures gas peaked at 2900 units, average peaks 400 to 600 units.

Operations Next Report Period  
Drill ahead as per instruction from Geology

Remarks  
Hauled 1 load of cuttings to CCS  
Excess casing : 3 joints of 219mm on E-52.

Cameron Hills field communications issues were discussed at the morning field operations meetings as they are on a daily basis.

|                                      |                                      |   |                 |
|--------------------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units)<br>400.00 | Avg Background Gas (Units)<br>150.00 | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>33.0                   | Personnel Total Hours (hr)<br>792.00 | Cum Personnel Total Hours (hr)<br>34,564.00 |                 |

## DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>Josh Blinston | Phone Mobile<br>403 510 0568 |
|---------------------------|------------------------------|------------------------------|

## TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com   |
|------------|----------|----------|--------------|----------------|---|
| 00:00      | 03:30    | 3.50     | 3.50         | Drill          | DRILL 156MM HOLE FROM 2209M-2224M   |
| 03:30      | 03:45    | 0.25     | 3.75         | Rig Service    | RIG SERVICE, GREASED DRAW WORKS, BREAK PINS AND LINKAGES, TABLE, BLOCKS, DRIVE LINE, WASH PIPE. CHECKED ALL OILS  |
| 03:45      | 07:00    | 3.25     | 7.00         | Drill          | DRILL 156MM HOLE FROM 2224M-2240M   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting | SAFETY MEETING WITH BOTH CREWS  |
| 07:15      | 12:00    | 4.75     | 12.00        | Drill          | DRILL 156MM HOLE FROM 2240M- 2263M  |
| 12:00      | 18:45    | 6.75     | 18.75        | Drill          | DRILL 156MM HOLE FROM 2263M-2311M   |
| 18:45      | 19:00    | 0.25     | 19.00        | Rig Service    | RIG SERVICE, FUNC. PIPE RAMS (3secs O/C), HCR (2secs O/C), GREASED SWIVEL, KELLY SPINNER, ROTARY TABLE, KELLY BUSHINGS, DRIVELINE, BRAKE LINKAGES AND DRAWWORKS. CHECKED ALL OILS |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting | SAFETY MEETING W/ BOTH CREWS  |
| 19:15      | 00:00    | 4.75     | 24.00        | Drill          | DRILL 156MM HOLE FROM 2311M-2333m   |

## MUD CHECKS

|                                |                            |                                 |  |                                   |                           |                          |
|--------------------------------|----------------------------|---------------------------------|--|-----------------------------------|---------------------------|--------------------------|
| Low Gravity Solids (%)<br>44.9 | MBT (kg/m³)                | Oil Water Ratio                 | Chlorides (mg/L)<br>1,100.000          | Calcium (mg/L)                    | Lime (kg/m³)              | Potassium (mg/L)         |
| Electric Stab (V)              | ECD - Manual Entry (kg/m³) | Sand (%)<br>0.3                 | Solids (%)<br>1.8                      | Temp Bottom Hole (°C)             | HTHP Pressure (kPa)       | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³)  | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)       | Daily Mud Field Est (Cost)<br>5,112.93 | Cum Mud Field Est...<br>93,143.66 |                           |                          |
| Depth (mKB)<br>2,300.00        | Density (kg/m³)<br>1030.0  | Funnel Viscosity (s/L)<br>3,370 | pH                                     | PV Override (cp)<br>10.0          | YP Override (Pa)<br>2.729 |                          |

## MUD ADDITIVES

| Des      | Field Est (Cost/unit) | Consumed |
|----------|-----------------------|----------|
| CAUSTIC  | 41.79                 | 1.0      |
| DRISPAC  | 198.45                | 2.0      |
| STARDRIL | 146.07                | 32.0     |

## MUD PUMPS

|             |                   |                  |
|-------------|-------------------|------------------|
| Pump Number | Rod Diameter (mm) | Pump Rating (kW) |
|-------------|-------------------|------------------|



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/14/2011  
 Report #: 52.0  
 Depth Progress: 124.64

Business Unit: NE BC & NWT COU  
 Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 56,677  
 Cum Cost to Date: 4,288,717

DFS: 53.44days

|                         |                          |                     |                           |
|-------------------------|--------------------------|---------------------|---------------------------|
| Pressure (kPa)          | Slow Speed Check?        | Strokes (spm)       | Volumetric Efficiency (%) |
| Pump Number<br>1        | Rod Diameter (mm)        | 127.0               | Pump Rating (kW)<br>800.0 |
| Pressure (kPa)          | Slow Speed Check?        | Strokes (spm)       | Volumetric Efficiency (%) |
| Pump Number<br>1        | Rod Diameter (mm)        |                     | Pump Rating (kW)          |
| Pressure (kPa)<br>2,800 | Slow Speed Check?<br>Yes | Strokes (spm)<br>50 | Volumetric Efficiency (%) |
| Pressure (kPa)<br>3,360 | Slow Speed Check?<br>Yes | Strokes (spm)<br>55 | Volumetric Efficiency (%) |

### BIT SUMMARY

|  |                            |                             |                             |                             |                       |                        |
|--|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------|------------------------|
| Bit Run<br>7                                 | Bit Type<br>Bit            | Size (mm)<br>156.0          | Make<br>ULTERRA             | Model<br>155UD513           | Serial Number<br>U563 | IADC Codes<br>S132     |
| Nozzles (mm)<br>14.0/14.0/14.0/14.0/1<br>2.0 | Depth In (mKB)<br>2,082.00 | Depth Out (mKB)<br>2,333.73 | Depth Drilled (m)<br>251.93 | Drilling Time (hr)<br>38.00 | BHA ROP (m/hr)<br>6.6 | IADC Bit Dull<br>----- |

### DRILL STRING COMPONENTS

| Item Des             | ID (mm) | OD (mm) | Jts | Len (m)  | Cum Len (m) |
|----------------------|---------|---------|-----|----------|-------------|
| Drill pipe - Singles |         |         | 1   | 9.70     | 5,028.63    |
| Drill pipe - Stands  |         |         | 83  | 1,580.60 | 6,609.23    |
| Drill pipe - Singles |         |         | 1   | 9.13     | 5,018.93    |
| Drill pipe - Stands  |         |         | 76  | 1,446.69 | 4,448.29    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 5,009.80    |
| Drill pipe - Stands  |         |         | 89  | 1,695.91 | 3,001.60    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 60  | 561.51   | 1,300.34    |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 1,305.69    |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 10  | 93.63    | 738.83      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 626.00      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 645.20      |
| HWDP(4.0 IN)         | 64.0    | 102.0   | 50  | 467.93   | 620.65      |
| DP(4.0")             | 84.0    | 102.0   | 2   | 19.20    | 143.53      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 152.72      |
| 120 SINGLES          | 84.0    | 102.0   | 1   |          | 124.33      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 124.33      |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 115.14      |
| JARS-HYD/MECH        | 64.0    | 102.0   | 1   | 5.35     | 105.83      |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 81.48       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 90.83       |
| 2 SINGLES            | 84.0    | 102.0   | 1   | 9.65     | 100.48      |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 61.72       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 62.57       |
| DP(4.0")             | 84.0    | 102.0   | 1   | 9.60     | 72.17       |
| ORIENT SUB           | 64.0    | 120.0   | 1   | 0.85     | 43.18       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 42.33       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.19     | 52.37       |
| MOTOR HS             | 64.0    | 120.0   | 1   | 7.54     | 25.48       |
| MONEL FLEX           | 68.0    | 121.0   | 1   | 9.31     | 34.79       |
| MONEL FLEX           | 68.0    | 120.0   | 1   | 9.35     | 17.94       |
| RIENT SUB            |         | 120.0   | 1   | 0.85     | 8.59        |
| MOTOR LS             | 64.0    | 102.0   | 1   | 7.56     | 7.74        |





# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/14/2011  
Report #: 52.0  
Depth Progress: 124.64

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 56,677  
Cum Cost to Date: 4,288,717

DFS: 53.44days

### DRILLING SUMMARY

|                               |                             |                           |                              |                               |                    |                |
|-------------------------------|-----------------------------|---------------------------|------------------------------|-------------------------------|--------------------|----------------|
| Start Depth (mKB)<br>2,209.09 | End Depth (mKB)<br>2,263.00 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>8,500 | Drilling Torque               | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)<br>40               | Motor RPM (rpm)             | Bit RPM (rpm)             | 40                           | Slack-Off String Weight (daN) | Drilling Time (hr) | 11.50          |
| Start Depth (mKB)<br>2,263.00 | End Depth (mKB)<br>2,333.73 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>6,500 | Drilling Torque               | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)<br>40               | Motor RPM (rpm)             | Bit RPM (rpm)             | 40                           | Slack-Off String Weight (daN) | Drilling Time (hr) | 7.50           |

### SAFETY CHECKS

| Date      | Type           | Des                    |
|-----------|----------------|------------------------|
| 3/14/2011 | Safety Meeting | WORKING WITH VAC TRUCK |
| 3/15/2011 | Safety Meeting | ELECTRICAL             |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m)  | EW (m) | VS (m) | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|---------|--------|--------|-------------|
| 3/14/2011 | 2,278.19 | 89.90    | 182.10  | 1,420.17  | -909.59 | 21.91  | 909.80 | 1.28        |
| 3/14/2011 | 2,287.56 | 88.80    | 182.10  | 1,420.27  | -918.96 | 21.57  | 919.16 | 3.52        |
| 3/14/2011 | 2,297.19 | 87.80    | 182.90  | 1,420.56  | -928.57 | 21.15  | 928.77 | 3.99        |
| 3/14/2011 | 2,306.79 | 88.10    | 182.90  | 1,420.90  | -938.16 | 20.67  | 938.34 | 0.94        |
| 3/14/2011 | 2,316.43 | 88.80    | 183.50  | 1,421.16  | -947.78 | 20.13  | 947.95 | 2.87        |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/15/2011  
Report #: 53.0  
Depth Progress: 201.00

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 56,677  
Cum Cost to Date: 4,345,394

|                                  |  |                             |                                       |                                      |
|----------------------------------|--|-----------------------------|---------------------------------------|--------------------------------------|
| API/UWV<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills | License #<br>2073                     | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     |  |                             | Rig Release Date<br>3/21/2011 12:00   | DFS: 54.44days                       |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            |                             | KB-Casing Flange Distance (m)<br>5.02 |                                      |

### Daily Operations

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| Start Depth (mKB)<br>2,333.00 | End Depth (mKB)<br>2,534.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|

|                  |                         |                 |
|------------------|-------------------------|-----------------|
| Weather<br>Clear | Temperature (°C)<br>-19 | Lease Condition |
|------------------|-------------------------|-----------------|

Operation at 6am  
Tripping out at TD - 2534m MD

Operations Summary  
Drilled from 2333m to 2520m as per the instruction of our Geologists. Spent 8 hrs sliding 19.50m. At the survey prior to midnight we were .38m above and 2.36m right of the target line. Midnight survey depth 2506.46m, Inc 90.8, Azi 180.6, TVD 1421.62m We continued to experience difficulty sliding and steering, Rocking the string consistently while sliding is the only way to maintain WOB and a decent penetration rate.

Operations Next Report Period  
Lay down singles for the reamer/logging run, lay down directional tools

Remarks  
Hauled 1 load of cuttings to CCS  
Excess casing : 3 joints of 219mm on E-52.

Cameron Hills field communications issues were discussed at the morning field operations meetings as they are on a daily basis.

|                                      |                                      |   |                 |
|--------------------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units)<br>500.00 | Avg Background Gas (Units)<br>260.00 | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>33.0                   | Personnel Total Hours (hr)<br>792.00 | Cum Personnel Total Hours (hr)<br>35,356.00 |                 |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>John Williams | Phone Mobile<br>403-510-0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com   |
|------------|----------|----------|--------------|----------------|---|
| 00:00      | 03:45    | 3.75     | 3.75         | Drill          | DRILL 156MM HOLE FROM 2333M-2358M   |
| 03:45      | 04:00    | 0.25     | 4.00         | Rig Service    | RIG SERVICE, GREASED DRIVE LINE, DRAW WORKS, TABLE, KELLY BUSHINGS, BREAK PINS AND LINKAGES. CHECKED ALL OILS. F.T. CROWN SAVER. F.T. PIPE RAMS 3 SECS TO CLOSE |
| 04:00      | 07:00    | 3.00     | 7.00         | Drill          | DRILL 156MM HOLE FROM 2358M-2377M   |
| 07:00      | 07:15    | 0.25     | 7.25         | Safety meeting | SAFETY MEETING W/ BOTH CREWS  |
| 07:15      | 12:00    | 4.75     | 12.00        | Drill          | DRILL 156MM HOLE FROM 2377M-2422M   |
| 12:00      | 15:30    | 3.50     | 15.50        | Drill          | DRILL 156MM HOLE FROM 2425M-2463M   |
| 15:30      | 15:45    | 0.25     | 15.75        | Rig Service    | RIG SERVICE FUNCTION ANNULAR 8 SECS O/C, HCR 2 SECS O/C   |
| 15:45      | 17:00    | 1.25     | 17.00        | Drill          | DRILL 156MM HOLE FROM 2463M-2479M   |
| 17:00      | 17:15    | 0.25     | 17.25        | Safety meeting | SAFETY MEETING WITH BOTH CREWS  |
| 17:15      | 19:00    | 1.75     | 19.00        | Drill          | DRILL 156MM HOLE FROM 2479M-2480M   |
| 19:00      | 19:15    | 0.25     | 19.25        | Safety meeting | SAFETY MEETING WITH BOTH CREWS  |
| 19:15      | 00:00    | 4.75     | 24.00        | Drill          | DRILL 156MM HOLE FROM 2480M-2520M   |

### MUD CHECKS

|                               |                            |                              |                            |                       |                     |                          |
|-------------------------------|----------------------------|------------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio              | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m²) | Sand (%)                     | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³)    | Daily Mud Field Est (Cost) | Cum Mud Field Est...  | 1,795.43            | 94,939.09                |
| Depth (mKB)<br>2,501.00       | Density (kg/m³)<br>1030.0  | Funnel Viscosity (s/L)<br>38 | pH<br>10.5                 | PV Override (cp)      | YP Override (Pa)    |                          |

### MUD ADDITIVES

| Des          | Field Est (Cost/unit) | Consumed |
|--------------|-----------------------|----------|
| CAL CARB 325 | 9.80                  | 22.0     |
| CAUSTIC      | 41.79                 | 2.0      |
| CELZAN       | 498.75                | 1.0      |
| CELZAN       | 498.75                | 2.0      |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/15/2011  
Report #: 53.0  
Depth Progress: 201.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 56,677  
Cum Cost to Date: 4,345,394

DFS: 54.44days

### MUD PUMPS

|                  |                   |                  |
|------------------|-------------------|------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |

### BIT SUMMARY

|              |                            |                             |                             |                             |                        |                                     |
|--------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------|-------------------------------------|
| Bit Run<br>7 | Bit Type<br>Bit            | Size (mm)<br>156.0          | Make<br>ULTERRA             | Model<br>155UD513           | Serial Number<br>U563  | IADC Codes<br>S132                  |
| Nozzles (mm) | Depth In (mKB)<br>2,333.00 | Depth Out (mKB)<br>2,534.00 | Depth Drilled (m)<br>201.00 | Drilling Time (hr)<br>19.00 | BHA ROP (m/hr)<br>10.6 | IADC Bit Dull<br>2-2-WT-S-X-0-CT-TD |

### DRILL STRING COMPONENTS

| Item Des            | ID (mm) | OD (mm) | Jts | Len (m)  | Cum Len (m) |
|---------------------|---------|---------|-----|----------|-------------|
| Drill pipe - Stands |         |         | 99  | 1,885.94 | 2,508.49    |
| IWD(4.0 IN)         | 64.0    | 102.0   | 10  | 93.63    | 622.55      |
| IWD(4.0 IN)         | 64.0    | 102.0   | 50  | 467.93   | 528.92      |
| 120 SINGLES         | 84.0    | 102.0   | 1   |          | 60.99       |
| JARS-HYD/MECH       | 64.0    | 102.0   | 1   | 5.35     | 60.99       |
| 2 SINGLES           | 84.0    | 102.0   | 1   | 9.65     | 55.64       |
| DP(4.0")            | 84.0    | 102.0   | 1   | 9.60     | 45.99       |
| MONEL FLEX          | 68.0    | 120.0   | 1   | 9.19     | 36.39       |
| MONEL FLEX          | 68.0    | 121.0   | 1   | 9.31     | 27.20       |
| MONEL FLEX          | 68.0    | 120.0   | 1   | 9.35     | 17.89       |
| ORIENT SUB          |         | 120.0   | 1   | 0.85     | 8.54        |
| MOTOR LS            | 64.0    | 102.0   | 1   | 7.56     | 7.69        |

### DRILLING SUMMARY

|                               |                             |                           |                               |                             |                    |                |
|-------------------------------|-----------------------------|---------------------------|-------------------------------|-----------------------------|--------------------|----------------|
| Start Depth (mKB)<br>2,333.00 | End Depth (mKB)<br>2,425.00 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>9,000  | Drilling Torque             | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)<br>40               | Motor RPM (rpm)             | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr)<br>11.50 |                    |                |
| Start Depth (mKB)<br>2,425.00 | End Depth (mKB)<br>2,534.00 | ROP Instantaneous (min/m) | Weight on Bit (daN)<br>8,500  | Drilling Torque             | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)<br>40               | Motor RPM (rpm)             | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr)<br>7.50  |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des          |
|-----------|----------------|--------------|
| 3/15/2011 | Safety Meeting | WELL CONTROL |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m)    | EW (m) | VS (m)   | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|-----------|--------|----------|-------------|
| 3/15/2011 | 2,458.89 | 91.30    | 180.40  | 1,423.48  | -1,090.05 | 14.42  | 1,090.14 | 2.07        |
| 3/15/2011 | 2,468.55 | 91.90    | 180.60  | 1,423.21  | -1,099.70 | 14.33  | 1,099.80 | 1.96        |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 NABORS DRILLING

Report For: 3/15/2011  
Report #: 53.0  
Depth Progress: 201.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 56,677  
Cum Cost to Date: 4,345,394

DFS: 54.44days

#### SURVEY DATA

| Date      | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m)    | EW (m) | VS (m)   | DLS (°/30m) |
|-----------|----------|----------|---------|-----------|-----------|--------|----------|-------------|
| 3/15/2011 | 2,478.15 | 91.00    | 180.50  | 1,422.97  | -1,109.30 | 14.24  | 1,109.39 | 2.83        |
| 3/15/2011 | 2,487.23 | 91.00    | 180.20  | 1,422.81  | -1,118.38 | 14.19  | 1,118.47 | 0.99        |
| 3/15/2011 | 2,496.85 | 90.60    | 180.60  | 1,422.67  | -1,128.00 | 14.12  | 1,128.08 | 1.76        |

#### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/16/2011  
Report #: 54.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 52,516  
Cum Cost to Date: 4,397,910

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 55.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|   |                             |                                      |   |  |
|---|-----------------------------|--------------------------------------|---|--|
| <b>Daily Operations</b>   |                             |                                      |   |  |
| Start Depth (mKB)<br>2,534.00   | End Depth (mKB)<br>2,534.00 | Target Formation<br>Sulphur Point    | Target Depth (mKB)<br>2,534.00              |  |
| Weather<br>Overcast   |                             | Temperature (°C)<br>-12              | Lease Condition<br>Good                     |  |
| Operation at 6am<br>Reaming at 1760m  |                             |                                      |   |  |
| Operations Summary<br>Drill from 2520m - 2534m. Tripped out of the hole and layed down singles for reaming. Make up reaming BHA and trip in the hole drifting pipe in the derrick |                             |                                      |   |  |
| Operations Next Report Period<br>Ream out the open hole section   |                             |                                      |   |  |
| Remarks   |                             |                                      |   |  |
| Avg Connection Gas (Units)  |                             | Avg Background Gas (Units)<br>220.00 | Avg Trip Gas (Units)                        |  |
| Head Count<br>30.0  |                             | Personnel Total Hours (hr)<br>720.00 | Cum Personnel Total Hours (hr)<br>36,076.00 |  |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>John Williams | Phone Mobile<br>403-510-0568 |

| TIME LOG SUMMARY |          |          |              |                               |  |
|------------------|----------|----------|--------------|-------------------------------|--|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2                        | Com  |
| 00:00            | 02:15    | 2.25     | 2.25         | DRILL ACTUAL                  | Drill 156mm hole from 2526m - 2534m  |
| 02:15            | 03:00    | 0.75     | 3.00         | COND MUD & CIRC               | Circulate bottoms up and prepare to trip out of the hole   |
| 03:00            | 07:00    | 4.00     | 7.00         | TRIPS                         | Drop pipe drift. Trip out of the hole from 2534m - 1241m. Flow check well at 2572m, 2402m, and 1530m   |
| 07:00            | 07:15    | 0.25     | 7.25         | SAFETY MEETING                | Safety meeting with both crews   |
| 07:15            | 12:45    | 5.50     | 12.75        | TRIPS                         | Trip out of the hole from 1241m and lay down drill pipe for reaming.   |
| 12:45            | 14:00    | 1.25     | 14.00        | Install New Downhole Assembly | Strap and make up tools for reaming  |
| 14:00            | 14:15    | 0.25     | 14.25        | SAFETY MEETING                | Safety meeting with rig crew and service company personnel to discuss procedures for drifting pipe from the derrick and picking up the reaming BHA                   |
| 14:15            | 22:00    | 7.75     | 22.00        | TRIPS                         | Trip in the hole with reamer assembly, strapping and drifting pipe from the derrick. Found stuck pipe drift at 703m. Fill pipe and flow check well at 300m and 1115m |
| 22:00            | 22:15    | 0.25     | 22.25        | Safety Meeting                | Safety meeting with both crews   |
| 22:15            | 22:30    | 0.25     | 22.50        | TRIPS                         | Trip in the hole to 1621m. Flow check well   |
| 22:30            | 23:00    | 0.50     | 23.00        | REAMING                       | Ream from 1621m - 1635m. Drift each single when picked up  |

|                               |                                |                                 |                                    |                                     |                           |                                   |  |
|-------------------------------|--------------------------------|---------------------------------|------------------------------------|-------------------------------------|---------------------------|-----------------------------------|--|
| <b>MUD CHECKS</b>             |                                |                                 |                                    |                                     |                           |                                   |  |
| Low Gravity Solids (%)        | MBT (kg/m³)                    | Oil Water Ratio<br>0/100        | Chlorides (mg/L)                   | Calcium (mg/L)                      | Lime (kg/m³)              | Potassium (mg/L)                  |  |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³)     | Sand (%)<br>0.2                 | Solids (%)<br>1.8                  | Temp Bottom Hole (°C)               | HTHP Pressure (kPa)       | HTHP Filtrate (mL/30min)          |  |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)<br>11.00 |                                 | Cum Mud Lost to Hole (m³)<br>11.00 | Daily Mud Field Est (Cost)<br>11.00 | 832.68                    | Cum Mud Field Est...<br>95,771.77 |  |
| Depth (mKB)<br>2,534.00       | Density (kg/m³)<br>1030000.0   | Funnel Viscosity (s/L)<br>3,197 | pH<br>9.5                          | PV Override (cp)<br>10.0            | YP Override (Pa)<br>2.298 |                                   |  |

| <b>MUD ADDITIVES</b> |                       |          |
|----------------------|-----------------------|----------|
| Des                  | Field Est (Cost/unit) | Consumed |
| CAUSTIC              | 41.79                 | 1.0      |
| KELZAN               | 498.75                | 1.0      |
| TARTDRIL             | 146.07                | 2.0      |



## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/16/2011  
Report #: 54.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 52,516  
Cum Cost to Date: 4,397,910

DFS: 55.44days

### MUD PUMPS

|                  |                   |                  |
|------------------|-------------------|------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des  |
|-----------|----------------|--|
| 3/16/2011 | Safety Meeting | Safety meeting on drifting pipe in the derrick |
| 3/16/2011 | Safety Meeting | CREW CHANGE AND LAYING DOWN DRILL PIPE         |
| 3/16/2011 | Safety Meeting | Safety Meeting on picking up tools             |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

|          |         |         |                 |                 |                 |
|----------|---------|---------|-----------------|-----------------|-----------------|
| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|          |         |         |                 |                 |                 |

### SURVEY DATA

|      |          |          |         |           |        |        |        |             |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/17/2011  
Report #: 55.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 97,050  
Cum Cost to Date: 4,494,960

|                                  |  |                                       |                   |                                      |
|----------------------------------|--|---------------------------------------|-------------------|--------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills           | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD. |
| Spud Date<br>1/20/2011 23:45     | Rig Release Date<br>3/21/2011 12:00            |                                       | DFS: 56.44days    |                                      |
| Ground Elevation (m)<br>770.20   | Original KB Elevation (m)<br>777.22            | KB-Casing Flange Distance (m)<br>5.02 |                   |                                      |

|  |                             |                                   |                                |
|--|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>  |                             |                                   |                                |
| Start Depth (mKB)<br>2,534.00  | End Depth (mKB)<br>2,534.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |
| Weather<br>Overcast - Snowed 5 cm  | Temperature (°C)<br>-13     | Lease Condition<br>Good           |                                |
| Operation at 6am<br>Reaming at 2386m<br>Operations Summary<br>Reaming from 1635m - 2228m   |                             |                                   |                                |
| Operations Next Report Period<br>Complete reaming operations. Trip out of hole and log with Datalog. Lay down portion of drill string not required for running liner |                             |                                   |                                |
| Remarks  |                             |                                   |                                |

|                                     |                                      |   |                 |
|-------------------------------------|--------------------------------------|---|-----------------|
| Avg Connection Gas (Units)<br>11.00 | Avg Background Gas (Units)<br>11.00  | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>32.0                  | Personnel Total Hours (hr)<br>768.00 | Cum Personnel Total Hours (hr)<br>36,844.00 |                 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>John Williams | Phone Mobile<br>403-510-0568 |

| <b>TIME LOG SUMMARY</b> |          |          |              |                |  |
|-------------------------|----------|----------|--------------|----------------|--|
| Start Time              | End Time | Dur (hr) | Cum Dur (hr) | Code 2         | Com  |
| 07:00                   | 07:00    | 7.00     | 7.00         | REAMING        | Ream from 1635m - 1800m                              |
| 07:00                   | 07:15    | 0.25     | 7.25         | SAFETY MEETING | Safety Meeting with both crews and service hands     |
| 07:15                   | 14:00    | 6.75     | 14.00        | REAMING        | Ream from 1800m - 1955m                              |
| 14:00                   | 14:15    | 0.25     | 14.25        | LUBRICATE RIG  | Rig Service and function annular preventer (8 sec)   |
| 14:15                   | 19:00    | 4.75     | 19.00        | REAMING        | Ream from 1955m - 2088m                              |
| 19:00                   | 19:15    | 0.25     | 19.25        | SAFETY MEETING | Safety meeting with both rig crews and service hands |
| 19:15                   | 00:00    | 4.75     | 24.00        | REAMING        | Ream from 2088m - 2228m                              |

|                               |   |                                 |                               |  |                                   |                          |  |
|-------------------------------|---|---------------------------------|-------------------------------|--|-----------------------------------|--------------------------|--|
| <b>MUD CHECKS</b>             |   |                                 |                               |  |                                   |                          |  |
| Low Gravity Solids (%)<br>1.2 | MBT (kg/m³)                             | Oil Water Ratio<br>0/100        | Chlorides (mg/L)<br>1,300.000 | Calcium (mg/L)<br>100.000              | Lime (kg/m³)                      | Potassium (mg/L)         |  |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³)<br>1122000.0 | Sand (%)<br>0.3                 | Solids (%)<br>1.2             | Temp Bottom Hole (°C)                  | HTHP Pressure (kPa)               | HTHP Filtrate (mL/30min) |  |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)                   | Cum Mud Lost to Hole (m³)       | 11.00                         | Daily Mud Field Est (Cost)<br>2,320.77 | Cum Mud Field Est...<br>98,092.54 |                          |  |
| Depth (mKB)<br>2,534.00       | Density (kg/m³)<br>1020000.0            | Funnel Viscosity (s/L)<br>3,283 | pH<br>10.0                    | PV Override (cp)<br>10.0               | YP Override (Pa)<br>2,538         |                          |  |

| <b>MUD ADDITIVES</b> |                       |          |
|----------------------|-----------------------|----------|
| Des                  | Field Est (Cost/unit) | Consumed |
| CAUSTIC              | 41.79                 | 1.0      |
| DRISPAC              | 198.45                | 1.0      |
| KELZAN               | 498.75                | 1.0      |
| KELZAN               | 498.75                | 2.0      |
| STARDRIL             | 146.07                | 4.0      |

|                  |                   |                           |                           |
|------------------|-------------------|---------------------------|---------------------------|
| <b>MUD PUMPS</b> |                   |                           |                           |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)          |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)             | Volumetric Efficiency (%) |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)<br>127.0 | 800.0                     |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/17/2011  
Report #: 55.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 97,050  
Cum Cost to Date: 4,494,960

DFS: 56.44days

|                |                   |                  |                           |
|----------------|-------------------|------------------|---------------------------|
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
|                | Yes               | 55               | 98                        |
| Pump Number    | Rod Diameter (mm) | Pump Rating (kW) |                           |
| 1              |                   |                  |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| 3,360          | Yes               | 55               |                           |
| Pressure (kPa) | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| 3,360          | Yes               | 55               |                           |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des                                |
|-----------|----------------|------------------------------------|
| 3/17/2011 | Safety Meeting | Safety Meeting on picking up tools |
| 17/2011   | Safety Meeting | Safety Meeting on picking up tools |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |





## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/18/2011  
Report #: 56.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 71,261  
Cum Cost to Date: 4,566,221

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 57.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|  |                             |                                      |                                |   |
|--|-----------------------------|--------------------------------------|--------------------------------|---|
| <b>Daily Operations</b>  |                             |                                      |                                |   |
| Start Depth (mKB)<br>2,534.00  | End Depth (mKB)<br>2,534.00 | Target Formation<br>Sulphur Point    | Target Depth (mKB)<br>2,534.00 |   |
| Weather<br>Overcast - Snowed 7 cm  |                             | Temperature (°C)<br>-22              | Lease Condition<br>Good        |   |
| Operation at 6am<br>Tripping in the hole to rerun the Datalog tool. Datalog tool was stuck in the drill pipe at 904m.  |                             |                                      |                                |   |
| Operations Summary<br>Reaming from 2228m - 2534m. Circulate bottoms up. Calibrate logging tools and drop into pipe. Trip out of hole and log with Datalog from 2534m - 1149m |                             |                                      |                                |   |
| Operations Next Report Period<br>Complete logging operations with Datalog. Make up Packers Plus assembly and run in hole with 114mm liner.                                   |                             |                                      |                                |   |
| Remarks  |                             |                                      |                                |   |
| Avg Connection Gas (Units)<br>11.00  |                             | Avg Background Gas (Units)<br>11.00  |                                | Avg Trip Gas (Units)                        |
| Head Count<br>35.0   |                             | Personnel Total Hours (hr)<br>768.00 |                                | Cum Personnel Total Hours (hr)<br>37,612.00 |

|                           |  |                              |  |
|---------------------------|--|------------------------------|--|
| <b>DAILY CONTACTS</b>     |  |                              |  |
| Title<br>Drilling Foreman |  | Job Contact<br>John Williams |  |
|                           |  | Phone Mobile<br>403-510-0568 |  |

| <b>TIME LOG SUMMARY</b> |          |          |              |                 |   |
|-------------------------|----------|----------|--------------|-----------------|---|
| Start Time              | End Time | Dur (hr) | Cum Dur (hr) | Code 2          | Com   |
| 00:00                   | 07:00    | 7.00     | 7.00         | REAMING         | Ream from 2228m - 2411m   |
| 07:00                   | 07:15    | 0.25     | 7.25         | SAFETY MEETING  | Safety meeting with both crews  |
| 07:15                   | 13:30    | 6.25     | 13.50        |                 | Ream from 2411m - 2534m   |
| 13:30                   | 15:30    | 2.00     | 15.50        | COND MUD & CIRC | Circulate hole clean and pump down Datalog logging tools                          |
| 15:30                   | 15:45    | 0.25     | 15.75        | SAFETY MEETING  | Safety meeting with rig crew and Datalog  |
| 15:45                   | 19:00    | 3.25     | 19.00        | WIRELINE LOGS   | Logging while tripping from 2534m - 2320m. Flow check well at 2532m, 2436m, 2320m |
| 19:00                   | 19:15    | 0.25     | 19.25        | SAFETY MEETING  | Safety meeting with both crews  |
| 19:15                   | 00:00    | 4.75     | 24.00        | WIRELINE LOGS   | Logging while tripping from 2320m - 1150m. Flow check well at 1150m               |

|                               |   |                                    |                               |                                      |                                   |                          |  |
|-------------------------------|---|------------------------------------|-------------------------------|--------------------------------------|-----------------------------------|--------------------------|--|
| <b>MUD CHECKS</b>             |   |                                    |                               |                                      |                                   |                          |  |
| Low Gravity Solids (%)<br>2.0 | MBT (kg/m³)<br>1178000.0                | Oil Water Ratio<br>0/100           | Chlorides (mg/L)<br>1,350.000 | Calcium (mg/L)<br>120.000            | Lime (kg/m³)                      | Potassium (mg/L)         |  |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³)<br>1178000.0 | Sand (%)<br>0.3                    | Solids (%)<br>2.1             | Temp Bottom Hole (°C)                | HTHP Pressure (kPa)               | HTHP Filtrate (mL/30min) |  |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)                   | Cum Mud Lost to Hole (m³)<br>11.00 |                               | Daily Mud Field Est (Cost)<br>989.34 | Cum Mud Field Est...<br>99,081.88 |                          |  |
| Depth (mKB)<br>2,534.00       | Density (kg/m³)<br>1035000.0            | Funnel Viscosity (s/L)<br>3,888    | pH<br>10.0                    | PV Override (cp)<br>10.0             | YP Override (Pa)<br>4.118         |                          |  |

| <b>MUD ADDITIVES</b> |                       |          |
|----------------------|-----------------------|----------|
| Des                  | Field Est (Cost/unit) | Consumed |
| DRISPAC              | 198.45                | 1.0      |
| KELZAN               | 498.75                | 1.0      |
| STARDRIL             | 146.07                | 2.0      |

|                  |                   |                  |                           |
|------------------|-------------------|------------------|---------------------------|
| <b>MUD PUMPS</b> |                   |                  |                           |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/18/2011  
Report #: 56.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 71,261  
Cum Cost to Date: 4,566,221

DFS: 57.44days

### MUD PUMPS

|                           |                   |                  |
|---------------------------|-------------------|------------------|
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW) |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |
| Pump Number               | Rod Diameter (mm) | Pump Rating (kW) |
| 1                         |                   |                  |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |

### BIT SUMMARY

|              |                               |                   |                    |                |               |            |
|--------------|-------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                      | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB)Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                    |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des                                      |
|-----------|----------------|--|
| 1/18/2011 | Safety Meeting | Tripping and laying down drill string    |
| 1/18/2011 | Safety Meeting | Procedures for logging while tripping    |
| 3/18/2011 | Safety Meeting | Safety Meeting on logging while tripping |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

**Report For: 3/19/2011**  
**Report #: 57.0**  
**Depth Progress: 0.00**

**Business Unit: NE BC & NWT COU**  
**Rig: 24 NABORS DRILLING**

**Total AFE Amount: 2,535,440**  
**AFE Number: 10N110009**  
**Daily Cost: 54,621**  
**Cum Cost to Date: 4,620,842**

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 58.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

|   |                             |                                      |                                |   |
|---|-----------------------------|--------------------------------------|--------------------------------|---|
| <b>Daily Operations</b>   |                             |                                      |                                |   |
| Start Depth (mKB)<br>2,534.00   | End Depth (mKB)<br>2,534.00 | Target Formation<br>Sulphur Point    | Target Depth (mKB)<br>2,534.00 |   |
| Weather<br>Clear  |                             | Temperature (°C)<br>-23              | Lease Condition<br>Good        |   |
| Operation at 6am<br>Running packer assembly and 114mm liner to 837m   |                             |                                      |                                |   |
| Operations Summary<br>Logging while tripping to 940m. Found logging tool stuck in drill pipe. Removed logging tool and layed down single. Tripped in the hole to 2534m. Circulated bottoms up. Drop and pump down logging tool. Logging while tripping out of the hole. Rig up the floor to run Packer Plus assembly and 114mm liner. |                             |                                      |                                |   |
| Operations Next Report Period<br>Run in the hole with Packers Plus packer assembly and 114mm liner. Circulate bottoms up. Displace liner annulus to fresh water. Hang liner. Pressure test liner. Pull out of liner and displace well to fresh water. Lay down drill pipe. Clean tanks. Release rig.                                  |                             |                                      |                                |   |
| Remarks<br>Non Operational time while logging = 16 hr. Backhauled Phoenix directional tools and one load of rental drill pipe.  |                             |                                      |                                |   |
| Avg Connection Gas (Units)<br>11.00   |                             | Avg Background Gas (Units)<br>11.00  |                                | Avg Trip Gas (Units)<br>Max H2S (Units)     |
| Head Count<br>36.0  |                             | Personnel Total Hours (hr)<br>864.00 |                                | Cum Personnel Total Hours (hr)<br>38,476.00 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>John Williams | Phone Mobile<br>403-510-0568 |

| TIME LOG SUMMARY |          |          |              |                 |   |
|------------------|----------|----------|--------------|-----------------|---|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2          | Com   |
| 00:00            | 01:30    | 1.50     | 1.50         | WIRELINE LOGS   | Logging while tripping from 1150m - 943m. Flow check well at 943m   |
| 01:30            | 02:00    | 0.50     | 2.00         | WIRELINE LOGS   | Recover top section of logging tool stuck in drill pipe at 940m   |
| 02:00            | 02:15    | 0.25     | 2.25         | WIRELINE LOGS   | Safety Meeting with rig crew and Datalog to discuss procedures for removing a source  |
| 02:15            | 02:45    | 0.50     | 2.75         | WIRELINE LOGS   | Remove lower section of logging tool from drill string.   |
| 02:45            | 07:00    | 4.25     | 7.00         | TRIPS           | Trip in the hole from 943m - 2534m. Flow check well at 943m, 1530m, and 2000m. Fill pipe at 2000m.  |
| 07:00            | 07:15    | 0.25     | 7.25         | SAFETY MEETING  | Safety meeting with both rig crews and service personnel.   |
| 07:15            | 07:45    | 0.50     | 7.75         | COND MUD & CIRC | Circulate hole clean and rig up Datalog equipment.  |
| 07:45            | 09:15    | 1.50     | 9.25         | WIRELINE LOGS   | Drop logging tool and pump down. Repeat section of 60m  |
| 09:15            | 17:15    | 8.00     | 17.25        | WIRELINE LOGS   | Logging while tripping from 2534m - 1009m. Flow check well at 2006m and 1516m   |
| 17:15            | 17:30    | 0.25     | 17.50        | SAFETY MEETING  | Safety meeting to discuss procedures for laying down drill pipe   |
| 17:30            | 19:00    | 1.50     | 19.00        | WIRELINE LOGS   | Logging while laying down drill pipe from 1009m - 693m  |
| 19:00            | 19:15    | 0.25     | 19.25        | SAFETY MEETING  | Safety meeting with both crews to discuss operations  |
| 19:15            | 21:45    | 2.50     | 21.75        | WIRELINE LOGS   | Logging while laying down drill pipe from 693m - 33m  |
| 21:45            | 22:00    | 0.25     | 22.00        | SAFETY MEETING  | Safety meeting with rig crew and Datalog to discuss procedures for lay removing and laying down a radioactive source.                     |
| 22:00            | 23:00    | 1.00     | 23.00        | WIRELINE LOGS   | Lay down Datalog tools and clean drill floor. Hole fill calculations 8.2m3, measured hole fill 14.70m3. Flow check well when out of hole. |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/19/2011  
 Report #: 57.0  
 Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
 Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 54,621  
 Cum Cost to Date: 4,620,842

DFS: 58.44days

#### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2              | Com  |
|------------|----------|----------|--------------|---------------------|--|
| 23:00      | 23:15    | 0.25     | 23.25        | SAFETY MEETING      | Safety meeting with rig crew, Packers Plus, and Total Depth power tong personnel to discuss procedures for rigging up to run 114mm liner and packer assembly |
| 23:15      | 00:00    | 0.75     | 24.00        | RUN CASING & CEMENT | Rig up to run 114mm liner and packer assembly.   |

#### MUD CHECKS

|  |   |  |                            |                       |                           |                          |
|--|---|--|----------------------------|-----------------------|---------------------------|--------------------------|
| Low Gravity Solids (%)                     | MBT (kg/m <sup>3</sup> )                | Oil Water Ratio                        | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m <sup>3</sup> ) | Potassium (mg/L)         |
| Electric Stab (V)                          | ECD - Manual Entry (kg/m <sup>3</sup> ) | Sand (%)                               | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa)       | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m <sup>3</sup> ) | Mud Lost to Hole (m <sup>3</sup> )      | Cum Mud Lost to Hole (m <sup>3</sup> ) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                           |                          |
| Depth (mKB)                                | Density (kg/m <sup>3</sup> )            | Funnel Viscosity (s/L)                 | pH                         | PV Override (cp)      | YP Override (Pa)          |                          |

#### MUD ADDITIVES

| Des | Field Est (Cost/unit) | Consumed |
|-----|-----------------------|----------|
|     |                       |          |

#### MUD PUMPS

|                  |                   |                           |
|------------------|-------------------|---------------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)             |
|                  |                   | Volumetric Efficiency (%) |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)             |
|                  |                   | Volumetric Efficiency (%) |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW)          |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)             |
|                  |                   | Volumetric Efficiency (%) |

#### BIT SUMMARY

|              |                                |                   |                    |                |               |            |
|--------------|--------------------------------|-------------------|--------------------|----------------|---------------|------------|
| Bit Run      | Bit Type                       | Size (mm)         | Make               | Model          | Serial Number | IADC Codes |
| Nozzles (mm) | Depth In (mKB) Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |            |

#### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

#### DRILLING SUMMARY

|                   |                 |                           |                               |                    |                                 |                |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|---------------------------------|----------------|
| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m <sup>3</sup> /min) | dP (SPP) (kPa) |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                                 |                |

#### SAFETY CHECKS

| Date      | Type           | Des                                      |
|-----------|----------------|--|
| 3/19/2011 | Safety Meeting | Safety Meeting on logging while tripping |
| 3/19/2011 | Safety Meeting | Operational                              |
| 3/19/2011 | Safety Meeting | Radioactive Sources                      |
| 3/19/2011 | Safety Meeting | Power tongs and picking Tools            |

#### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

#### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m <sup>3</sup> ) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|------------------------------|-----------------|
|          |         |         |                 |                              |                 |



**Paramount**  
resources ltd.

### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU

Rig: 24 NABORS DRILLING

Report For: 3/19/2011

Report #: 57.0

Depth Progress: 0.00

Total AFE Amount: 2,535,440

AFE Number: 10N110009

Daily Cost: 54,621

Cum Cost to Date: 4,620,842

DFS: 58.44days

#### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

#### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



## Daily Drilling

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

Report For: 3/20/2011  
Report #: 58.0  
Depth Progress: 0.00

**Business Unit: NE BC & NWT COU**  
**Rig: 24 NABORS DRILLING**

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 485,699  
Cum Cost to Date: 5,106,541

|                                  |  |                                     |                   |                                       |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 59.44days                        |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |

### Daily Operations

|  |                                      |   |                                |
|--|--------------------------------------|---|--------------------------------|
| Start Depth (mKB)<br>2,534.00  | End Depth (mKB)<br>2,534.00          | Target Formation<br>Sulphur Point           | Target Depth (mKB)<br>2,534.00 |
| Weather<br>Clear   | Temperature (°C)<br>-18              | Lease Condition<br>Good                     |                                |
| Operation at 6am<br>Rigging down to move. Trucks ordered for this morning  |                                      |   |                                |
| Operations Summary<br>Run in the hole with Packers Plus packer assembly and 114mm liner. Circulate bottoms up. Displace liner annulus to fresh water. Hang liner. Pressure test liner. Pull out of liner and displace well to fresh water. Lay down drill pipe. Clean mud tanks. Rig down. Mud product reconciled. |                                      |   |                                |
| Operations Next Report Period<br>Lay down HWDP. Rig down BOP Equipment. Release rig. Rig down. Move rig to E-52 location   |                                      |   |                                |
| Remarks<br>Removed one load of mixed off drill cuttings.   |                                      |   |                                |
| Avg Connection Gas (Units)   | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units)                |
| Head Count<br>32.0   | Personnel Total Hours (hr)<br>768.00 | Cum Personnel Total Hours (hr)<br>39,244.00 |                                |

### DAILY CONTACTS

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| Title<br>Drilling Foreman | Job Contact<br>John Williams | Phone Mobile<br>403-510-0568 |
|---------------------------|------------------------------|------------------------------|

### TIME LOG SUMMARY

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Code 2              | Com   |
|------------|----------|----------|--------------|---------------------|---|
| 00:00      | 00:30    | 0.50     | 0.50         | RUN CASING & CEMENT | Rig up to run casing and packer assembly  |
| 00:30      | 07:00    | 6.50     | 7.00         | RUN CASING & CEMENT | Make up and run Packers Plus 8 stage assembly and 114.3mm liner.  |
| 07:00      | 07:30    | 0.50     | 7.50         | SAFETY MEETING      | Safety meeting with both rig crew s, power tong personnel, and Packers Plus personnel. Discussed operations for the next 12 hours   |
| 07:30      | 14:30    | 7.00     | 14.50        | RUN CASING & CEMENT | Run 114mm liner to 2529m. Flow check well and circulate casing at 980m, 1515m   |
| 14:30      | 15:30    | 1.00     | 15.50        | RUN CASING & CEMENT | Circulate hole clean  |
| 15:30      | 15:45    | 0.25     | 15.75        | SAFETY MEETING      | Safety meeting with rig crew, BJ Service, and Packers Plus. Discussed procedures for setting liner, pressure testing, and displacing the liner to fresh water.  |
| 15:45      | 19:00    | 3.25     | 19.00        | RUN CASING & CEMENT | Pump 11m3 water, drop set ball, pump 13.6m3 of water to seat ball. Pressure drill pipe to 13mpa and conduct two 25 daN push - pulls on hanger. Close pipe rams and test annulus to 10mpa for 10 minutes. Pressure drill pipe to 20mpa and set packer. Pressure annulus to 18mpa and pull of liner hanger. Displace hole with 18.6m3 of water. |
| 19:00      | 19:15    | 0.25     | 19.25        | SAFETY MEETING      | Safety meeting with both rig crews and service personnel. Discussed operations for the next 12 hours  |
| 19:15      | 19:30    | 0.25     | 19.50        |                     | Rig out BJ equipment.   |
| 19:30      | 00:00    | 4.50     | 24.00        | TRIPS               | Trip out of the hole and lay down drill string. Flow check well at 1500m, 500m  |

### MUD CHECKS

|                               |                            |                           |                            |                       |                     |                          |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |

### MUD ADDITIVES

| Des          | Field Est (Cost/unit) | Consumed |
|--------------|-----------------------|----------|
| CAL CARB '0' | 9.80                  | 112.0    |
| CAL CARB 325 | 9.80                  | 23.0     |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/20/2011  
Report #: 58.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 485,699  
Cum Cost to Date: 5,106,541

DFS: 59.44days

### MUD ADDITIVES

| Des                | Field Est (Cost/unit) | Consumed |
|--------------------|-----------------------|----------|
| CAUSTIC            | 41.79                 | -1.0     |
| DESCO              | 80.22                 | 2.0      |
| DRISPAC            | 198.45                | -1.0     |
| ENVIROFLOC         | 40.82                 | 40.0     |
| EZ DRILL           | 1,922.80              | 2.0      |
| SODIUM BICARBONATE | 29.59                 | -1.0     |
| STARDRIL           | 146.07                | -3.0     |
| ULTRAFLOC          | 133.01                | -9.0     |

### MUD PUMPS

| Pump Number               | Rod Diameter (mm) | Pump Rating (kW) |
|---------------------------|-------------------|------------------|
| 1                         |                   |                  |
| Pressure (kPa)            | Slow Speed Check? | Strokes (spm)    |
| Volumetric Efficiency (%) |                   |                  |

### IT SUMMARY

| Bit Run      | Bit Type       | Size (mm)       | Make              | Model              | Serial Number  | IADC Codes    |
|--------------|----------------|-----------------|-------------------|--------------------|----------------|---------------|
| Nozzles (mm) | Depth In (mKB) | Depth Out (mKB) | Depth Drilled (m) | Drilling Time (hr) | BHA ROP (m/hr) | IADC Bit Dull |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date      | Type           | Des                                    |
|-----------|----------------|--|
| 3/20/2011 | Safety Meeting | Operational and Power Tongs            |
| 3/20/2011 | Safety Meeting | Operational - Laying down drill string |
| 3/20/2011 | Safety Meeting | Pressure Testing with BJ               |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (°/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| 4 Marker          | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |



### Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Report For: 3/20/2011  
Report #: 58.0  
Depth Progress: 0.00

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 485,699  
Cum Cost to Date: 5,106,541

DFS: 59.44days

#### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Sulphur Point Dol | 1,483.50           | 1,415.93              |





## Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/21/2011  
Report #: 59.0  
Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
AFE Number: 10N110009  
Daily Cost: 317,670  
Cum Cost to Date: 5,424,211

|                                  |  |                                     |                   |                                       |  |
|----------------------------------|--|-------------------------------------|-------------------|---------------------------------------|--|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills         | License #<br>2073 | Operator<br>PARAMOUNT RESOURCES LTD.  |  |
| Spud Date<br>1/20/2011 23:45     |  | Rig Release Date<br>3/21/2011 12:00 |                   | DFS: 60.44days                        |  |
| Ground Elevation (m)<br>770.20   |  | Original KB Elevation (m)<br>777.22 |                   | KB-Casing Flange Distance (m)<br>5.02 |  |

|                               |                             |                                   |                                |
|-------------------------------|-----------------------------|-----------------------------------|--------------------------------|
| <b>Daily Operations</b>       |                             |                                   |                                |
| Start Depth (mKB)<br>2,534.00 | End Depth (mKB)<br>2,534.00 | Target Formation<br>Sulphur Point | Target Depth (mKB)<br>2,534.00 |

|                  |                        |                         |
|------------------|------------------------|-------------------------|
| Weather<br>Clear | Temperature (°C)<br>-4 | Lease Condition<br>Good |
|------------------|------------------------|-------------------------|

Operation at 6am

Operations Summary  
Lay down HWDP. Rig down BOP Equipment. Release rig at 12:00 hr. Rig down. Move rig to E-52 location

Operations Next Report Period

|                                |                                      |   |                 |
|--------------------------------|--------------------------------------|---|-----------------|
| <b>Remarks</b><br>FINAL REPORT |                                      |   |                 |
| Avg Connection Gas (Units)     | Avg Background Gas (Units)           | Avg Trip Gas (Units)                        | Max H2S (Units) |
| Head Count<br>39.0             | Personnel Total Hours (hr)<br>468.00 | Cum Personnel Total Hours (hr)<br>39,712.00 |                 |

|                           |                              |                              |
|---------------------------|------------------------------|------------------------------|
| <b>DAILY CONTACTS</b>     |                              |                              |
| Title<br>Drilling Foreman | Job Contact<br>John Williams | Phone Mobile<br>403-510-0568 |

| TIME LOG SUMMARY |          |          |              |                  |  |
|------------------|----------|----------|--------------|------------------|--|
| Start Time       | End Time | Dur (hr) | Cum Dur (hr) | Code 2           | Com  |
| 00:00            | 02:00    | 2.00     | 2.00         | TRIPS            | Lay down HWDP and Liner Hanger running tool  |
| 2:00             | 06:45    | 4.75     | 6.75         | Remove BOP's     | Nipple down BOP, flare tank, flare lines, and degasser lines                         |
| 06:45            | 07:00    | 0.25     | 7.00         | SAFETY MEETING   | Safety Meeting with both crews to discuss operations for the next 12 hours           |
| 07:00            | 08:00    | 1.00     | 8.00         | Remove BOP's     | Nipple down BOP and DSA and hang stack on carrier                                    |
| 08:00            | 12:00    | 4.00     | 12.00        | RIGUP & TEARDOWN | Rig down floor, water and steam lines, and lay over derrick. Rig Released at 12:00hr |

| MUD CHECKS                    |                            |                           |                            |                       |                     |                          |  |
|-------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|---------------------|--------------------------|--|
| Low Gravity Solids (%)        | MBT (kg/m³)                | Oil Water Ratio           | Chlorides (mg/L)           | Calcium (mg/L)        | Lime (kg/m³)        | Potassium (mg/L)         |  |
| Electric Stab (V)             | ECD - Manual Entry (kg/m³) | Sand (%)                  | Solids (%)                 | Temp Bottom Hole (°C) | HTHP Pressure (kPa) | HTHP Filtrate (mL/30min) |  |
| Active Mud Volume (Surf) (m³) | Mud Lost to Hole (m³)      | Cum Mud Lost to Hole (m³) | Daily Mud Field Est (Cost) | Cum Mud Field Est...  |                     |                          |  |
| Depth (mKB)                   | Density (kg/m³)            | Funnel Viscosity (s/L)    | pH                         | PV Override (cp)      | YP Override (Pa)    |                          |  |

| MUD ADDITIVES |                       |          |
|---------------|-----------------------|----------|
| Des           | Field Est (Cost/unit) | Consumed |

| MUD PUMPS        |                   |                  |                           |
|------------------|-------------------|------------------|---------------------------|
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number      | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |
| Pump Number<br>1 | Rod Diameter (mm) | Pump Rating (kW) |                           |
| Pressure (kPa)   | Slow Speed Check? | Strokes (spm)    | Volumetric Efficiency (%) |



# Daily Drilling

Well Name: PARA ET AL CAMERON 2H-03 HZ

Report For: 3/21/2011  
 Report #: 59.0  
 Depth Progress: 0.00

Business Unit: NE BC & NWT COU  
 Rig: 24 NABORS DRILLING

Total AFE Amount: 2,535,440  
 AFE Number: 10N110009  
 Daily Cost: 317,670  
 Cum Cost to Date: 5,424,211

DFS: 60.44days

### BIT SUMMARY

| Bit Run | Bit Type | Size (mm) | Make | Model | Serial Number | IADC Codes |
|---------|----------|-----------|------|-------|---------------|------------|
|         |          |           |      |       |               |            |

### DRILL STRING COMPONENTS

| Item Des | ID (mm) | OD (mm) | Jts | Len (m) | Cum Len (m) |
|----------|---------|---------|-----|---------|-------------|
|          |         |         |     |         |             |

### DRILLING SUMMARY

| Start Depth (mKB) | End Depth (mKB) | ROP Instantaneous (min/m) | Weight on Bit (daN)           | Drilling Torque    | Flow Rate (m³/min) | dP (SPP) (kPa) |
|-------------------|-----------------|---------------------------|-------------------------------|--------------------|--------------------|----------------|
|                   |                 |                           |                               |                    |                    |                |
| RPM (rpm)         | Motor RPM (rpm) | Bit RPM (rpm)             | Slack-Off String Weight (daN) | Drilling Time (hr) |                    |                |

### SAFETY CHECKS

| Date | Type | Des |
|------|------|-----|
|      |      |     |

### SAFETY INCIDENTS

| Date | Com | Type |
|------|-----|------|
|      |     |      |

### WELL CONTROL SUMMARY

| Run Date | Csg Des | OD (mm) | Set Depth (mKB) | Vol Pumped (m³) | P LeakOff (kPa) |
|----------|---------|---------|-----------------|-----------------|-----------------|
|          |         |         |                 |                 |                 |

### SURVEY DATA

| Date | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | NS (m) | EW (m) | VS (m) | DLS (*/30m) |
|------|----------|----------|---------|-----------|--------|--------|--------|-------------|
|      |          |          |         |           |        |        |        |             |

### FORMATIONS

| Formation Name    | Drill Top MD (mKB) | Drill Top (TVD) (mKB) |
|-------------------|--------------------|-----------------------|
| Slave Point Fm    | 1,353.00           | 1,346.33              |
| F4 Marker         | 1,412.00           | 1,388.48              |
| Watt Mtn Fm       | 1,425.50           | 1,395.68              |
| Sulphur Point Lst | 1,433.00           | 1,399.33              |
| Sulphur Point Dol | 1,483.50           | 1,415.93              |



# Casing

Surface

**Paramount**  
resources ltd.

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

### Wellbore

| Wellbore Name<br>Original Hole |           |               | Kick Off Depth (mKB)<br>1,270.00 |            |           |
|--------------------------------|-----------|---------------|----------------------------------|------------|-----------|
| Section Des                    | Size (mm) | Act Top (mKB) | Act Btm (mKB)                    | Start Date | End Date  |
| Surface                        | 311.0     | 7.20          | 361.00                           | 1/21/2011  | 1/21/2011 |

### Wellhead

|                     |                           |                 |  |
|---------------------|---------------------------|-----------------|--|
| Type<br>Casing Head | Install Date<br>1/23/2011 | Service<br>Sour | Comment<br>ABB VETCO 279mmX20,700 X 244.5mmSOW PSL-1 WITH 2 SSO FLANGED<br>OUTLETS (52mmX34.5mPa)<br>Serial Number: (Bowl): SN-421261-01<br>CR21030357001 Casing Slip Assembly VGCS11<br>(279.4mm) x 7 (177.8mm) Manual PSL-1<br>SN-CW48917-59 |
|---------------------|---------------------------|-----------------|--|

### Wellhead Components

| Des                  | Make  | Model | SN        | WP Top (kPa) |
|----------------------|-------|-------|-----------|--------------|
| ABB Vetco FC-29 Bowl | Vetco | FC-29 | 421261-01 | 21,000       |

### Casing

|                               |                           |                       |                           |
|-------------------------------|---------------------------|-----------------------|---------------------------|
| Casing Description<br>Surface | Set Depth (mKB)<br>360.00 | Run Date<br>1/22/2011 | Set Tension (daN)<br>17.0 |
| Centralizers<br>14            | Scratchers<br>None        |                       |                           |

### Casing Components

| Item Des      | OD (mm) | Wt (kg/m) | Grade | Top Thread | Jts | Len (m) | Top (mKB) | Btm (mKB) | Mk-up Tq (daN-m) | Class | Max OD (mm) | ID (mm) |
|---------------|---------|-----------|-------|------------|-----|---------|-----------|-----------|------------------|-------|-------------|---------|
| Casing Joints | 244.5   | 48.100    | H-40  |            | 26  | 338.29  | 7.20      | 345.49    |                  |       |             | 226.6   |
| Float Collar  | 244.5   | 48.100    | H-40  |            | 1   | 0.50    | 345.49    | 345.99    |                  |       |             | 226.6   |
| Casing Joints | 244.5   | 48.100    | H-40  |            | 1   | 13.43   | 345.99    | 359.42    |                  |       |             | 226.6   |
| Float Shoe    | 244.5   |           |       |            | 1   | 0.58    | 359.42    | 360.00    |                  |       |             |         |



# Casing

Intermediate

Well Name: PARA ET AL CAMERON 2H-03 HZ

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

### Wellbore

| Wellbore Name<br>Original Hole |           |               |               | Kick Off Depth (mKB)<br>1,270.00 |           |
|--------------------------------|-----------|---------------|---------------|----------------------------------|-----------|
| Section Des                    | Size (mm) | Act Top (mKB) | Act Btm (mKB) | Start Date                       | End Date  |
| Surface                        | 311.0     | 7.20          | 361.00        | 1/21/2011                        | 1/21/2011 |
| Intermediate 1                 | 222.0     | 361.00        | 1,534.00      | 1/25/2011                        | 3/4/2011  |

### Wellhead

|                     |                           |                 |  |
|---------------------|---------------------------|-----------------|--|
| Type<br>Casing Head | Install Date<br>1/23/2011 | Service<br>Sour | Comment<br>ABB VETCO 279mmX20,700 X 244.5mmSOW PSL-1 WITH 2 SSO FLANGED<br>OUTLETS (52mmX34.5mPa)<br>Serial Number: (Bowl): SN-421261-01<br>CR21030357001 Casing Slip Assembly VGCS11<br>(279.4mm) x 7 (177.8mm) Manual PSL-1<br>SN-CW48917-59 |
|---------------------|---------------------------|-----------------|--|

### Wellhead Components

| Des                  | Make  | Model | SN        | WP Top (kPa) |
|----------------------|-------|-------|-----------|--------------|
| ABB Vetco FC-29 Bowl | Vetco | FC-29 | 421261-01 | 21,000       |

### Casing

|                                    |                             |                      |                           |
|------------------------------------|-----------------------------|----------------------|---------------------------|
| Casing Description<br>Intermediate | Set Depth (mKB)<br>1,531.00 | Run Date<br>3/7/2011 | Set Tension (daN)<br>44.0 |
| Centralizers<br>37                 | Scratchers<br>None          |                      |                           |

### Casing Components

| Item Des      | OD (mm) | Wt (kg/m) | Grade | Top Thread | Jts | Len (m)  | Top (mKB) | Btm (mKB) | Mk-up Tq (daN-m) | Class | Max OD (mm) | ID (mm) |
|---------------|---------|-----------|-------|------------|-----|----------|-----------|-----------|------------------|-------|-------------|---------|
| Casing Joints | 177.8   | 34.228    | L-80  | LT&C       | 121 | 1,495.32 | 7.20      | 1,502.52  |                  |       |             | 161.7   |
| Float Collar  | 177.8   |           |       | LT&C       | 1   | 0.42     | 1,502.52  | 1,502.94  |                  |       |             |         |
| Float Collar  | 177.8   |           |       | LT&C       | 1   | 0.44     | 1,502.94  | 1,503.38  |                  |       |             |         |
| Casing Joints | 177.8   | 34.228    | L-80  | LT&C       | 1   | 13.57    | 1,503.38  | 1,516.95  |                  |       |             | 161.7   |
| Casing Joints | 177.8   | 34.228    | L-80  | LT&C       | 1   | 13.57    | 1,516.95  | 1,530.52  |                  |       |             | 161.7   |
| Float Shoe    |         |           |       | LT&C       | 1   | 0.00     | 1,530.52  | 1,530.52  |                  |       |             |         |
| Float Shoe    |         |           |       | LT&C       | 1   | 0.48     | 1,530.52  | 1,531.00  |                  |       |             |         |



# Casing

Liner

Well Name: **PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

## Wellbore

| Wellbore Name<br>Original Hole |           |               | Kick Off Depth (mKB)<br>1,270.00 |            |           |
|--------------------------------|-----------|---------------|----------------------------------|------------|-----------|
| Section Des                    | Size (mm) | Act Top (mKB) | Act Btm (mKB)                    | Start Date | End Date  |
| Surface                        | 311.0     | 7.20          | 361.00                           | 1/21/2011  | 1/21/2011 |
| Intermediate 1                 | 222.0     | 361.00        | 1,534.00                         | 1/25/2011  | 3/4/2011  |
| Lateral                        | 156.0     | 1,534.00      | 2,534.00                         | 3/8/2011   | 3/16/2011 |

## Wellhead

|                     |                           |                 |  |
|---------------------|---------------------------|-----------------|--|
| Type<br>Casing Head | Install Date<br>1/23/2011 | Service<br>Sour | Comment<br>ABB VETCO 279mmX20,700 X 244.5mmSOW PSL-1 WITH 2 SSO FLANGED<br>OUTLETS (52mmX34.5mPa)<br>Serial Number: (Bowl): SN-421261-01<br>CR21030357001 Casing Slip Assembly VGCS11<br>(279.4mm) x 7 (177.8mm) Manual PSL-1<br>SN-CW48917-59 |
|---------------------|---------------------------|-----------------|--|

## Wellhead Components

| Des                  | Make  | Model | SN        | WP Top (kPa) |
|----------------------|-------|-------|-----------|--------------|
| ABB Vetco FC-29 Bowl | Vetco | FC-29 | 421261-01 | 21,000       |

## Casing

|                             |                             |                       |                   |
|-----------------------------|-----------------------------|-----------------------|-------------------|
| Casing Description<br>Liner | Set Depth (mKB)<br>2,529.00 | Run Date<br>3/19/2011 | Set Tension (daN) |
| Centralizers<br>None        | Scratchers<br>None          |                       |                   |

## Casing Components

| Item Des               | OD (mm) | Wt (kg/m) | Grade | Top Thread | Jts | Len (m) | Top (mKB) | Btm (mKB) | Mk-up Tq (daN·m) | Class | Max OD (mm) | ID (mm) |
|------------------------|---------|-----------|-------|------------|-----|---------|-----------|-----------|------------------|-------|-------------|---------|
| 4"FH x 3 1/2IF X/O     | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.44    | 1,502.88  | 1,503.32  | 302              |       |             | 101.6   |
| 4" FH Handling Pup     | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.42    | 1,503.32  | 1,504.74  | 302              |       |             | 101.6   |
| Centralizer            | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.51    | 1,504.74  | 1,505.25  | 302              |       |             | 101.6   |
| Setting Tool           | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.55    | 1,505.25  | 1,506.80  | 302              |       |             | 101.6   |
| Liner Hanger Packer    | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.75    | 1,506.80  | 1,508.55  | 302              |       |             | 101.6   |
| Acme x LTC X/O         | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.31    | 1,508.55  | 1,508.86  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.94    | 1,508.86  | 1,509.80  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 3   | 40.46   | 1,509.80  | 1,550.26  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.85    | 1,550.26  | 1,552.11  | 302              |       |             | 101.6   |
| Rockseal Packer        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.59    | 1,552.11  | 1,553.70  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 1,553.70  | 1,556.49  | 302              |       |             | 101.6   |
| Seat Assembly - 2.375" | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.42    | 1,556.49  | 1,556.91  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.94    | 1,556.91  | 1,557.85  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.98   | 1,557.85  | 1,584.83  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,584.83  | 1,585.11  | 302              |       |             | 101.6   |
| Casing Joints - Pup    | 114.3   | 17.263    | L-80  | LT&C       | 1   | 2.82    | 1,585.11  | 1,587.93  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.49   | 1,587.93  | 1,601.42  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,601.42  | 1,601.70  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.42   | 1,601.70  | 1,615.12  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,615.12  | 1,615.40  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.51   | 1,615.40  | 1,628.91  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,628.91  | 1,629.19  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.49   | 1,629.19  | 1,642.68  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.85    | 1,642.68  | 1,644.53  | 302              |       |             | 101.6   |
| atcher Sub             | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.60    | 1,644.53  | 1,645.13  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 1,645.13  | 1,647.92  | 302              |       |             | 101.6   |
| Rockseal Packer        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.59    | 1,647.92  | 1,649.51  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 1,649.51  | 1,652.30  | 302              |       |             | 101.6   |

# Casing



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**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UVI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

| Casing Components      |         |           |       |            |     |         |           |           |                  |       |             |         |
|------------------------|---------|-----------|-------|------------|-----|---------|-----------|-----------|------------------|-------|-------------|---------|
| Item Des               | OD (mm) | Wt (kg/m) | Grade | Top Thread | Jts | Len (m) | Top (mKB) | Btm (mKB) | Mk-up Tq (daN-m) | Class | Max OD (mm) | ID (mm) |
| Seat Assembly - 2.25"  | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.42    | 1,652.30  | 1,652.72  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.94    | 1,652.72  | 1,653.66  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.97   | 1,653.66  | 1,680.63  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,680.63  | 1,680.91  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 11.13   | 1,680.91  | 1,692.04  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,692.04  | 1,692.32  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.98   | 1,692.32  | 1,719.30  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,719.30  | 1,719.58  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.50   | 1,719.58  | 1,733.08  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,733.08  | 1,733.36  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.51   | 1,733.36  | 1,746.87  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.85    | 1,746.87  | 1,748.72  | 302              |       |             | 101.6   |
| Catcher Sub            | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.60    | 1,748.72  | 1,749.32  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 1,749.32  | 1,752.11  | 302              |       |             | 101.6   |
| Rockseal Packer        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.59    | 1,752.11  | 1,753.70  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 1,753.70  | 1,756.49  | 302              |       |             | 101.6   |
| Seat Assembly - 1.125" | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.42    | 1,756.49  | 1,756.91  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.94    | 1,756.91  | 1,757.85  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.99   | 1,757.85  | 1,784.84  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,784.84  | 1,785.12  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.49   | 1,785.12  | 1,798.61  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,798.61  | 1,798.89  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.16   | 1,798.89  | 1,825.05  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,825.05  | 1,825.33  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 12.23   | 1,825.33  | 1,837.56  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,837.56  | 1,837.84  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.50   | 1,837.84  | 1,851.34  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.85    | 1,851.34  | 1,853.19  | 302              |       |             | 101.6   |
| Catcher Sub            | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.60    | 1,853.19  | 1,853.79  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 1,853.79  | 1,856.58  | 302              |       |             | 101.6   |
| Rockseal Packer        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.59    | 1,856.58  | 1,858.17  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 1,858.17  | 1,860.96  | 302              |       |             | 101.6   |
| Seat Assembly - 2.00"  | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.42    | 1,860.96  | 1,861.38  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.94    | 1,861.38  | 1,862.32  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.87   | 1,862.32  | 1,889.19  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,889.19  | 1,889.47  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.50   | 1,889.47  | 1,902.97  | 302              |       |             | 101.6   |
| Jet Sub 1.00"          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,902.97  | 1,903.25  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.50   | 1,903.25  | 1,916.75  | 302              |       |             | 101.6   |
| Jet Sub 1.00"          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,916.75  | 1,917.03  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.50   | 1,917.03  | 1,930.53  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,930.53  | 1,930.81  | 302              |       |             | 101.6   |
| Casing Joints - Pup    | 114.3   | 17.263    | L-80  | LT&C       | 1   | 2.86    | 1,930.81  | 1,933.67  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.85    | 1,933.67  | 1,935.52  | 302              |       |             | 101.6   |
| Catcher Sub            | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.60    | 1,935.52  | 1,936.12  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 1,936.12  | 1,938.91  | 302              |       |             | 101.6   |
| Rockseal Packer        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.59    | 1,938.91  | 1,940.50  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 1,940.50  | 1,943.29  | 302              |       |             | 101.6   |



# Casing

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**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

## Casing Components

| Item Des               | OD (mm) | Wt (kg/m) | Grade | Top Thread | Jts | Len (m) | Top (mKB) | Btn (mKB) | Mk-up Tq (daN-m) | Class | Max OD (mm) | ID (mm) |
|------------------------|---------|-----------|-------|------------|-----|---------|-----------|-----------|------------------|-------|-------------|---------|
| Seat Assembly - 1.875" | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.42    | 1,943.29  | 1,943.71  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.94    | 1,943.71  | 1,944.65  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 25.74   | 1,944.65  | 1,970.39  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,970.39  | 1,970.67  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.50   | 1,970.67  | 1,984.17  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 1,984.17  | 1,984.45  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.99   | 1,984.45  | 2,011.44  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 2,011.44  | 2,011.72  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.99   | 2,011.72  | 2,038.71  | 302              |       |             | 101.6   |
| Jet Sub - 1.00"        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 2,038.71  | 2,038.99  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 12.43   | 2,038.99  | 2,051.42  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.85    | 2,051.42  | 2,053.27  | 302              |       |             | 101.6   |
| Catcher Sub            | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.60    | 2,053.27  | 2,053.87  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 2,053.87  | 2,056.66  | 302              |       |             | 101.6   |
| Rockseal Packer        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.59    | 2,056.66  | 2,058.25  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 2,058.25  | 2,061.04  | 302              |       |             | 101.6   |
| Seat Assembly - .750"  | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.42    | 2,061.04  | 2,061.46  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.94    | 2,061.46  | 2,062.40  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.98   | 2,062.40  | 2,089.38  | 302              |       |             | 101.6   |
| Jet Sub - 875"         | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 2,089.38  | 2,089.66  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.98   | 2,089.66  | 2,116.64  | 302              |       |             | 101.6   |
| Jet Sub - 875"         | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 2,116.64  | 2,116.92  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.97   | 2,116.92  | 2,143.89  | 302              |       |             | 101.6   |
| Jet Sub - 875"         | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 2,143.89  | 2,144.17  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.98   | 2,144.17  | 2,171.15  | 302              |       |             | 101.6   |
| Jet Sub - 875"         | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 2,171.15  | 2,171.43  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.49   | 2,171.43  | 2,184.92  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.85    | 2,184.92  | 2,186.77  | 302              |       |             | 101.6   |
| Catcher Sub            | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.60    | 2,186.77  | 2,187.37  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 2,187.37  | 2,190.16  | 302              |       |             | 101.6   |
| Rockseal Packer        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.59    | 2,190.16  | 2,191.75  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 2,191.75  | 2,194.54  | 302              |       |             | 101.6   |
| Seat Assembly - 1.625" | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.42    | 2,194.54  | 2,194.96  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.94    | 2,194.96  | 2,195.90  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.99   | 2,195.90  | 2,222.89  | 302              |       |             | 101.6   |
| Jet Sub - 875"         | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 2,222.89  | 2,223.17  | 302              |       |             | 102.7   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.49   | 2,223.17  | 2,236.66  | 302              |       |             | 102.7   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.50   | 2,236.66  | 2,250.16  | 302              |       |             | 101.6   |
| Jet Sub - 875"         | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 2,250.16  | 2,250.44  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 26.97   | 2,250.44  | 2,277.41  | 302              |       |             | 101.6   |
| Jet Sub - 875"         | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 2,277.41  | 2,277.69  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 1   | 13.49   | 2,277.69  | 2,291.18  | 302              |       |             | 101.6   |
| Jet Sub - 875"         | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.28    | 2,291.18  | 2,291.46  | 302              |       |             | 101.6   |
| Casing Joints          | 114.3   | 17.263    | L-80  | LT&C       | 2   | 27.00   | 2,291.46  | 2,318.46  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.85    | 2,318.46  | 2,320.31  | 302              |       |             | 101.6   |
| Catcher Sub            | 114.3   | 17.263    | L-80  | LT&C       | 1   | 0.60    | 2,320.31  | 2,320.91  | 302              |       |             | 101.6   |
| Pup Joint              | 114.3   | 17.263    | L-80  | LT&C       | 2   | 2.79    | 2,320.91  | 2,323.70  | 302              |       |             | 101.6   |
| Rockseal Packer        | 114.3   | 17.263    | L-80  | LT&C       | 1   | 1.59    | 2,323.70  | 2,325.29  | 302              |       |             | 101.6   |

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Well Name: **PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/NUW<br>302/H-03/6010-1173010 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

| Casing Components     |         |           |       |            |      |         |           |           |                    |       |             |         |
|-----------------------|---------|-----------|-------|------------|------|---------|-----------|-----------|--------------------|-------|-------------|---------|
| Item Desc             | OD (mm) | Wt (kg/m) | Grade | Top Thread | Jts. | Len (m) | Top (mKB) | Btm (mKB) | Mk-up Lg (dash-in) | Class | Max OD (mm) | ID (mm) |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 2    | 2.79    | 2,325.29  | 2,328.08  | 302                |       |             | 101.6   |
| Seat Assembly - 1.50" | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.42    | 2,328.08  | 2,328.50  | 302                |       |             | 101.6   |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.94    | 2,328.50  | 2,329.44  | 302                |       |             | 101.6   |
| Casing Joints         | 114.3   | 17.263    | L-80  | L1&C       | 2    | 26.98   | 2,329.44  | 2,356.42  | 302                |       |             | 101.6   |
| Jet Sub - 750"        | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.33    | 2,356.42  | 2,356.75  | 302                |       |             | 101.6   |
| Casing Joints         | 114.3   | 17.263    | L-80  | L1&C       | 2    | 26.89   | 2,356.75  | 2,383.64  | 302                |       |             | 101.6   |
| Jet Sub - 750"        | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.33    | 2,383.64  | 2,383.97  | 302                |       |             | 101.6   |
| Casing Joints         | 114.3   | 17.263    | L-80  | L1&C       | 2    | 26.96   | 2,383.97  | 2,410.93  | 302                |       |             | 101.6   |
| Jet Sub - 750"        | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.33    | 2,410.93  | 2,411.26  | 302                |       |             | 101.6   |
| Casing Joints         | 114.3   | 17.263    | L-80  | L1&C       | 2    | 26.99   | 2,411.26  | 2,438.25  | 302                |       |             | 101.6   |
| Jet Sub - 750"        | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.33    | 2,438.25  | 2,438.58  | 302                |       |             | 101.6   |
| Casing Joints         | 114.3   | 17.263    | L-80  | L1&C       | 1    | 13.48   | 2,438.58  | 2,452.06  | 302                |       |             | 101.6   |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 1    | 1.85    | 2,452.06  | 2,453.91  | 302                |       |             | 101.6   |
| Catcher Sub           | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.60    | 2,453.91  | 2,454.51  | 302                |       |             | 101.6   |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 2    | 2.79    | 2,454.51  | 2,457.30  | 302                |       |             | 101.6   |
| Rockseal Packer       | 114.3   | 17.263    | L-80  | L1&C       | 1    | 1.59    | 2,457.30  | 2,458.89  | 302                |       |             | 101.6   |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.94    | 2,458.89  | 2,459.83  | 302                |       |             | 101.6   |
| Casing Joints         | 114.3   | 17.263    | L-80  | L1&C       | 1    | 13.50   | 2,459.83  | 2,473.33  | 302                |       |             | 101.6   |
| up Joint              | 114.3   | 17.263    | L-80  | L1&C       | 1    | 1.85    | 2,473.33  | 2,475.18  | 302                |       |             | 101.6   |
| Anchor Packer         | 114.3   | 17.263    | L-80  | L1&C       | 1    | 2.15    | 2,475.18  | 2,477.33  | 302                |       |             | 101.6   |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.94    | 2,477.33  | 2,478.27  | 302                |       |             | 101.6   |
| Casing Joints         | 114.3   | 17.263    | L-80  | L1&C       | 1    | 12.63   | 2,478.27  | 2,490.90  | 302                |       |             | 101.6   |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 1    | 1.85    | 2,490.90  | 2,492.75  | 302                |       |             | 101.6   |
| DEH Frac Port         | 114.3   | 17.263    | L-80  | L1&C       | 1    | 1.32    | 2,492.75  | 2,494.07  | 302                |       |             | 101.6   |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.94    | 2,494.07  | 2,495.01  | 302                |       |             | 101.6   |
| Casing Joints         | 114.3   | 17.263    | L-80  | L1&C       | 2    | 26.98   | 2,495.01  | 2,521.99  | 302                |       |             | 101.6   |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 1    | 1.85    | 2,521.99  | 2,523.84  | 302                |       |             | 101.6   |
| Toe Circ Sub          | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.83    | 2,523.84  | 2,524.67  | 302                |       |             | 101.6   |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 1    | 1.85    | 2,524.67  | 2,526.52  | 302                |       |             | 101.6   |
| Float Clar            | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.40    | 2,526.52  | 2,526.92  | 302                |       |             | 101.6   |
| Pup Joint             | 114.3   | 17.263    | L-80  | L1&C       | 1    | 1.85    | 2,526.92  | 2,528.77  | 302                |       |             | 101.6   |
| Bullet Nose Guide     | 114.3   | 17.263    | L-80  | L1&C       | 1    | 0.23    | 2,528.77  | 2,529.00  | 302                |       |             | 101.6   |



# Cement



**Paramount**  
resources ltd.

**Surface**

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

**Cement Details**

|                        |   |                                       |                                |
|------------------------|---|---------------------------------------|--------------------------------|
| Description<br>Surface | Cementing Start Date<br>1/23/2011 14:26 | Cementing End Date<br>1/23/2011 15:35 | Wellbore Name<br>Original Hole |
|------------------------|---|---------------------------------------|--------------------------------|

**Comment**  
Ran 27 joints of 244.5mm H-40 Range 3 casing set @ 360m, had to wash the casing in from 80m to 130m, this took considerable time. Once on bottom shortened the mud system and mixed desco and water to reduce YP and viscosity. Rigged up and tied in the BJ cement crew, cemented surface casing with 19t (16.20m<sup>3</sup>) Maxxcem G cement blend 1%CaCl<sub>2</sub>.90% FL-5 Fluid loss control, dropped the top plug and displaced with 14.22m<sup>3</sup> H2O bumped plug at 7.7mpa, good returns throughout the job, 1.5m<sup>3</sup> cement returns. Pressure tested casing 1.5mpa (7.7mpa) over final pressure and held for 10min, tested high 12.5mpa for 10min, bled off tested floats held ok, annulus lever static. The rig crew flushed the conductor and WOC for 6 hours. While WOC rigged out BJ, cleaned mud tanks, began mud stripping operations. Cut conductor, and rough cut casing, preheated the casing bowl to 270 deg, welded as per GE procedure, tested bowl @ 7000kpa for 10min

**Cement Stages**

**Stage # 1**

|                                   |                                       |                                     |                              |                                 |                 |                         |                    |                |
|-----------------------------------|---------------------------------------|-------------------------------------|------------------------------|---------------------------------|-----------------|-------------------------|--------------------|----------------|
| Description                       | Objective                             | Top Depth (mKB)<br>7.20             | Bottom Depth (mKB)<br>360.96 | Full Return?<br>No              | Vol Cement R... | Top Plug?<br>No         | Bottom Plug?<br>No |                |
| Q Pump Init (m <sup>3</sup> /min) | Final Pump Rate (m <sup>3</sup> /min) | Avg Pump Rate (m <sup>3</sup> /min) | P Pump Final (kPa)           | P Plug Bump (kPa)               | Recip?<br>No    | Stroke (m)              | Rotated?<br>No     | Pipe RPM (rpm) |
| Tagged Depth (mKB)                |                                       | Tag Method                          |                              | Depth Plug Drilled Out To (mKB) |                 | Drill Out Diameter (mm) |                    |                |

**Comment**

**Cement Fluids & Additives**

**Fluid**

|                               |                                       |                     |                              |                        |                      |                                 |
|-------------------------------|---------------------------------------|---------------------|------------------------------|------------------------|----------------------|---------------------------------|
| Fluid Type                    | Fluid Description                     | Estimated Top (mKB) | Est Btm (mKB)                | Cement Amount (tonnes) | Class                | Volume Pumped (m <sup>3</sup> ) |
| Yield (m <sup>3</sup> /tonne) | Mix H2O Ratio (m <sup>3</sup> /tonne) | Free Water (%)      | Density (kg/m <sup>3</sup> ) | Plastic Viscosity (cp) | Thickening Time (hr) | CmprStr 1 (kPa)                 |

**Additives**

|          |      |               |                 |
|----------|------|---------------|-----------------|
| Additive | Type | Concentration | Conc Unit label |
|----------|------|---------------|-----------------|

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|



# Cement

## Intermediate Casing Cement

**Paramount**  
resources ltd.

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/JWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

### Cement Details

|   |  |                                      |                                |
|---|--|--------------------------------------|--------------------------------|
| Description<br>Intermediate Casing Cement | Cementing Start Date<br>3/7/2011 06:35 | Cementing End Date<br>3/7/2011 08:35 | Wellbore Name<br>Original Hole |
|---|--|--------------------------------------|--------------------------------|

**Comment**  
Ran 114 joints of 177.8mm L-80, 34.23 kg/m<sup>3</sup>, LT&C EVRAZ casing, the string included 1 Import L-80 8 round float shoe, one joint of casing and 1 Import 8 round float collar (Top of float collar 1516.51mkb) followed by 113 joints of range 3 to surface. Ran 37 Import Bow Spring Centralizers, stop collars were installed 3m above and below the float collar. Total length of casing was 1534.48m and was landed at 1531.00 mKB.

Casing was washed in from 1320m to bottom and circulated on bottom for 3 hours including the pre job safety meeting with BJ Services.

Pre-flushed with 4.00m<sup>3</sup> water followed by 1.17t (3.00m<sup>3</sup>) MaxxCem G Cement with .90% FL-5, 1.00% CaCl<sub>2</sub> scavenger pre-flush weighted at 1250kg/m<sup>3</sup>. Cemented with 35.5 t (34.5m<sup>3</sup>) MaxxCem G cement with .90% FL-5, 1.00% CaCl<sub>2</sub>. Dropped the plug and displaced with 30.10m<sup>3</sup> fresh water, bumped the plug at 12MPa 3.5 MPa over the final circulating pressure at 08:30 hrs March 7, 2011. Full mud returns throughout the job. Bled back the floats held and the annulus level was static. No cement returns noted at the shaker.

Drained the bop's, blew out the casing and lifted the bop stack. Installed the casing slips and set into them at 44daN. Cut and beveled the casing, installed the casing slip assembly and lowered the bop's.

### Cement Stages

#### Stage # 1

|  |  |  |                                  |                              |                         |                    |                     |                |
|--|--|--|----------------------------------|------------------------------|-------------------------|--------------------|---------------------|----------------|
| Description<br>Intermediate Casing Cement  | Objective                                      | Top Depth (mKB)<br>7.20                      | Bottom Depth (mKB)<br>1,534.00   | Full Return?<br>No           | Vol Cement R...<br>2.00 | Top Plug?<br>Yes   | Bottom Plug?<br>Yes |                |
| Q Pump Init (m <sup>3</sup> /min)<br>0.800 | Final Pump Rate (m <sup>3</sup> /min)<br>0.300 | Avg Pump Rate (m <sup>3</sup> /min)<br>0.800 | P Pump Final (kPa)<br>80,000     | P Plug Bump (kPa)<br>120,000 | Recip?<br>Yes           | Stroke (m)<br>2.00 | Rotated?<br>No      | Pipe RPM (rpm) |
| Tagged Depth (mKB)                         | Tag Method<br>Drill Bit                        | Depth Plug Drilled Out To (mKB)<br>1,531.00  | Drill Out Diameter (mm)<br>156.0 |                              |                         |                    |                     |                |

Comment

### Cement Fluids & Additives

|  |  |                             |                              |                                |                              |  |  |
|--|--|-----------------------------|------------------------------|--------------------------------|------------------------------|--|--|
| <b>Fluid</b>                           |  |                             |                              |                                |                              |  |  |
| Fluid Type<br>Lead                     | Fluid Description<br>MaxxCem "G" at 1700                   | Estimated Top (mKB)<br>0.00 | Est Btm (mKB)<br>361.00      | Cement Amount (tonnes)<br>35.5 | Class<br>04-Class G          | Volume Pumped (m <sup>3</sup> )<br>34.50 |  |
| Yield (m <sup>3</sup> /tonne)<br>0.852 | Mix H <sub>2</sub> O Ratio (m <sup>3</sup> /tonne)<br>0.53 | Free Water (%)              | Density (kg/m <sup>3</sup> ) | Plastic Viscosity (cp)         | Thickening Time (hr)<br>3.50 | CmprStr 1 (kPa)                          |  |

#### Additives

|                                |                           |                      |                      |
|--------------------------------|---------------------------|----------------------|----------------------|
| Additive<br>High Temp Retarder | Type<br>CaCl <sub>2</sub> | Concentration<br>0.9 | Conc Unit label<br>% |
| Additive<br>Fluid Loss Control | Type<br>FL-5              | Concentration<br>1.0 | Conc Unit label<br>% |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Concord Well Service**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/22/2011**

**Report #: 1.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 78,650**

**Cum Cost to Date: 78,650**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)          | Tubing Pressure (kPa)               |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Moved in tank farm and 90m3 HCL

**Operations Next Report Period**  
Continue to haul in HCL

|                |         |                         |                      |
|----------------|---------|-------------------------|----------------------|
| Road Condition | Weather | Start Date<br>3/22/2011 | End Date<br>4/2/2011 |
|----------------|---------|-------------------------|----------------------|

|            |                            |                                |
|------------|----------------------------|--------------------------------|
| Head Count | Personnel Total Hours (hr) | Cum Personnel Total Hours (hr) |
|------------|----------------------------|--------------------------------|

**Daily Contacts**

| Title              | Job Contact   | Mobile       |
|--------------------|---------------|--------------|
| Completion Manager | Lionel Larson | 403-290-3626 |
| Field Supervision  | Stephen Baggs | 780-717-9461 |
| Field Supervisor   | Milo Christie | 403-952-9163 |
| Rig Manager        | Dwayne Palmer | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com  |
|------------|----------|----------|--------------|--|
| 07:30      | 13:30    | 6.00     | 6.00         | Held safety meeting with truckers. Reviewed Safe Work Permit/ Hazard assessment. Moved in and set up tank farm.<br>NOTE: Drilling rig moving out at same time. Coordinate services with drilling supervisor. Held safety meeting with acid haulers. Discussed safe handling of fluids, location of shower/ eyewash facilities and use of proper PPE for task. Moved in and unloaded 90m3 HCL. Inspect tanks for condition. SDFN. |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Water |              |                |                    |                      |

**Perforations**

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |

**Tubing Components**

| Item Des | Top (mKB) |
|----------|-----------|
|          |           |

**Casing Strings**

| Csg Des      | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|---------------|-----------------|
| Production   |       |               |                 |
| Surface      | H-40  | 48.100        | 360.00          |
| Intermediate | L-80  | 34.228        | 1,531.00        |
| Liner        | L-80  | 17.263        | 2,529.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Concord Well Service**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/23/2011**

**Report #: 2.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 64,214**

**Cum Cost to Date: 142,864**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/UWM<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)          | Tubing Pressure (kPa)               |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Hauled in 130m3 15 % HCL, Set up tank manifold.

**Operations Next Report Period**  
Wait on orders

|                        |                                      |  |                      |
|------------------------|--------------------------------------|--|----------------------|
| Road Condition<br>Fair | Weather<br>Clear                     | Start Date<br>3/22/2011                  | End Date<br>4/2/2011 |
| Head Count<br>15.0     | Personnel Total Hours (hr)<br>144.00 | Cum Personnel Total Hours (hr)<br>144.00 |                      |

**Daily Contacts**

| Title              | Job Contact   | Mobile       |
|--------------------|---------------|--------------|
| Completion Manager | Lionel Larson | 403-290-3626 |
| Field Supervision  | Stephen Baggs | 780-717-9461 |
| Field Supervisor   | Milo Christie | 403-952-9163 |
| Rig Manager        | Dwayne Palmer | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com  |
|------------|----------|----------|--------------|--|
| 07:30      | 08:00    | 0.50     | 0.50         | Walk around lease inspection. NO Iel's. Attended safety meeting at plant. Held safety meeting with rig crew. Filled out and reviewed Safe Work Permit. Continued with equipment maintenance. Wait on orders. |
| 08:00      | 17:30    | 9.50     | 10.00        | Reviewed hazard assessment/ JSA with acid haulers. Moved in and unloaded 130 m3 15% HCL. Moved in Total equipment. Held safety meeting and rigged in tank manifold.  |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Water |              |                |                    |                      |

**Perforations**

| Date | Zone | Top (mKB) | Btn (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |

**Tubing Components**

| Item Des | Top (mKB) |
|----------|-----------|
|          |           |

**Casing Strings**

| Csg Des      | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|---------------|-----------------|
| Production   |       |               |                 |
| Surface      | H-40  | 48.100        | 360.00          |
| Intermediate | L-80  | 34.228        | 1,531.00        |
| Liner        | L-80  | 17.263        | 2,529.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Concord Well Service**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/24/2011**

**Report #: 3.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 102,730**

**Cum Cost to Date: 245,594**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)          | Tubing Pressure (kPa)               |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Hauled in 158 m3 15% HCL to tank farm. Total HCL on location 372m3. Moved in and spotted frac equipment. Conducted Paramount orientation with frac personnel. Installed Stinger 7" casing saver on 7 1/16 "Orbit valve"

**Operations Next Report Period**  
Frac Sulphur Point Dolomite HZ

|                        |                                      |  |                      |
|------------------------|--------------------------------------|--|----------------------|
| Road Condition<br>Fair | Weather<br>Fair                      | Start Date<br>3/22/2011                  | End Date<br>4/2/2011 |
| Head Count<br>15.0     | Personnel Total Hours (hr)<br>144.00 | Cum Personnel Total Hours (hr)<br>288.00 |                      |

**Daily Contacts**

| Title              | Job Contact   | Mobile       |
|--------------------|---------------|--------------|
| Completion Manager | Lionel Larson | 403-290-3626 |
| Field Supervision  | Stephen Baggs | 780-717-9461 |
| Field Supervisor   | Milo Christie | 403-952-9163 |
| Rig Manager        | Dwayne Palmer | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com   |
|------------|----------|----------|--------------|---|
| 07:30      | 08:00    | 0.50     | 0.50         | Attended safety meeting at plant. Walk around lease inspection/ LeI check of 2H-03. No LeI's. Held safety meeting with all on site personnel.   |
| 08:00      | 12:00    | 4.00     | 4.50         | Continue to haul in 15% HCL. Hauled a total of 158m3 HCL today. Total on location 372m3.  |
| 12:00      | 20:00    | 8.00     | 12.50        | Move in BJ services, IES and Stinger stimulation equipment. Held safety meeting/ Paramount orientation with all personnel. Moved in and spotted equipment complete. Checked equipment over to ensure all equipment was on location to do job. Installed Stinger "big bore" casing saver on 3k orbit valve. Secure well, SDFN. |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Water |              |                |                    |                      |

**Perforations**

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |

**Tubing Components**

| Item Des | Top (mKB) |
|----------|-----------|
|          |           |

**Casing Strings**

| Csg Des      | Grade | W/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|--------------|-----------------|
| Production   |       |              |                 |
| Surface      | H-40  | 48.100       | 360.00          |
| Intermediate | L-80  | 34.228       | 1,531.00        |
| Liner        | L-80  | 17.263       | 2,529.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Concord Well Service**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/25/2011**

**Report #: 4.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 905,606**

**Cum Cost to Date: 1,151,200**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/JWI<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)          | Tubing Pressure (kPa)               |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Fractured Sulphur Point Dolomite HZ section through a Packers Plus 9 stage frac port system. Placed 364m3 nitrified 15% HCL in formation. Average treating pressure 28.2 MPa @ 6.0 m3/ min. Max pressure @ 32.3 MPa. Min @ 26.7 MPa. ISIP @ 18.2 MPa. 15 mins = 5.8 MPa. LTR= 486m3. Recovered 21.2m3 in first 2hr of flow. Shut in and surge flow as required.

**Operations Next Report Period**  
Continue to surge/ flow. RU service rig, run tb and swab.

|                        |                                      |                                |                      |
|------------------------|--------------------------------------|--------------------------------|----------------------|
| Road Condition<br>Fair | Weather<br>Light snow                | Start Date<br>3/22/2011        | End Date<br>4/2/2011 |
| Head Count<br>16.0     | Personnel Total Hours (hr)<br>156.00 | Cum Personnel Total Hours (hr) | 444.00               |

**Daily Contacts**

| Title              | Job Contact   | Mobile       |
|--------------------|---------------|--------------|
| Completion Manager | Lionel Larson | 403-290-3626 |
| Field Supervision  | Stephen Baggs | 780-717-9461 |
| Field Supervisor   | Milo Christie | 403-952-9163 |
| Rig Manager        | Dwayne Palmer | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com  |
|------------|----------|----------|--------------|--|
| 07:30      | 08:00    | 0.50     | 0.50         | Walk around lease inspection & Lei check. No Lei's. Attended daily safety meeting at control room. Held pre rig in safety meeting with frac personnel etc on 2H-03. Discussed job hazards and procedures. 39 on location.  |
| 08:00      | 10:30    | 2.50     | 3.00         | Moved in IES. Card calipered balls #1-8 (1.625 - 2.500") Loaded gates and installed ball launcher on top of Stinger casing saver. Rigged in BJ treating iron to buffalo head. Moved in shower units and related safety services. Moved in total manifold crew and flooded manifold with fresh water from tanks. Repair any leaks where required.   |
| 10:30      | 11:00    | 0.50     | 3.50         | Held safety meeting with all personnel. Discussed frac procedures, safety and emergency response.  |
| 11:00      | 15:30    | 4.50     | 8.00         | Pressure test treatment lines (fluid & n2) to 40 MPa. Good. Fill hole (0.9m3) and open hydraulic port @ 2492.75 mKB with 25.2 MPa. Fracture Sulphur point Dolomite HZ formation through a Packers Plus Rapid Matrix 9 stage system. Frac stages 1-9 each with 40m3 15% HCL followed with 10m3 "friction reduced" water. All balls observed seating at required fluid volumes. Max treatment pressure observed 32.3 MPa. Average treatment rate = 6.0 m3/min @ 28.2 MPa. Total acid pumped to formation = 364.4 m3 followed by 30m3 fresh water on flush. Total n2 pumped = 21,593 sm3. LTR = 486m3. ISIP 18.2 MPa. 15 min = 5.8 MPa. |
| 15:30      | 16:30    | 1.00     | 9.00         | Flush lines manifold etc with fresh water. RO BJ treating iron etc. Remove IES ball launcher, RO & release. Check pressure @ casing saver. 2100 KPa. Stroke out Stinger CS. RO & release. Install 3k flowing well head on 179mm Orbit valve. Prep to open well to testers.   |
| 16:30      | 18:30    | 2.00     | 11.00        | SICP = 1988 kPa. Open well to flow on a 38.1 mm "gut line" recovering 17.8m3 in first 30 minutes of flow. Recover additional 3.4 m3 in next 1.5 hour of flow. Shut well in and record build ups. Surge flow as required.   |
| 18:30      | 18:30    |          | 11.00        | Spot rig on mats. Raise rig and center. Continue to rig in where possible while flowing well.  |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Water | 486.00       | 21.20          | 21.20              | 464.80               |

**Perforations**

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |

**Tubing Components**

| Item Des | Top (mKB) |
|----------|-----------|
|          |           |

**Casing Strings**

| Csg Des      | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|---------------|-----------------|
| Production   |       |               |                 |
| Surface      | H-40  | 48.100        | 360.00          |
| Intermediate | L-80  | 34.228        | 1,531.00        |
| Liner        | L-80  | 17.263        | 2,529.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Concord Well Service**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/26/2011**

**Report #: 5.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number:11N120017**

**Daily Cost Total: 37,730**

**Cum Cost to Date: 1,188,930**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)<br>159   | Tubing Pressure (kPa)               |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Surge flow well. RIH & land to end @ 1489.51 mKB. PSN @ 1270.32. ND Bop & NU Well head. Pull 36 swabbs recovering 41.12m3 fluid. PH=6, Sal ~ 132,000, H2s content @ 1.7%, LFLTR= 428.68m3. Trace oil in samples.

**Operations Next Report Period**  
Continue to swab & recover load fluid.

|                        |                                      |  |                      |
|------------------------|--------------------------------------|--|----------------------|
| Road Condition<br>Fair | Weather<br>Clear                     | Start Date<br>3/22/2011                  | End Date<br>4/2/2011 |
| Head Count<br>21.0     | Personnel Total Hours (hr)<br>184.00 | Cum Personnel Total Hours (hr)<br>628.00 |                      |

**Daily Contacts**

| Title                               | Job Contact | Mobile       |
|-------------------------------------|-------------|--------------|
| Completion Manager<br>Lionel Larson |             | 403-290-3626 |
| Field Supervision<br>Stephen Baggs  |             | 780-717-9461 |
| Field Supervisor<br>Milo Christie   |             | 403-952-9163 |
| Rig Manager<br>Dwayne Palmer        |             | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com  |
|------------|----------|----------|--------------|--|
| 00:00      | 07:30    | 7.50     | 7.50         | Continue to monitor SI well pressures. No fluid recovered during surge flow operations.  |
| 07:30      | 08:00    | 0.50     | 8.00         | Walk around lease inspection, LeI check. No LeI's. Attended safety meeting at plant. Attended safety meeting on 2H-03 with all personnel. Serviced and started equipment. Recorded well head pressures.  |
| 08:00      | 09:00    | 1.00     | 9.00         | Stump test Bop's to low 1.4, high of 21 MPa for 10 minutes per component. Good. Test kill and returns lines, manifold etc to 21 MPa as well.   |
| 09:00      | 09:30    | 0.50     | 9.50         | Flow check well. Good. Pump 5.0 m3 fresh water to well. ND well head and 179mm orbit valve. Install TH and landing jt with safety valve.   |
| 09:30      | 10:00    | 0.50     | 10.00        | Install class III Bop's and tighten down studs. re pressure test ring gasket/ pipe rams to 21 MPa. Good test.  |
| 10:00      | 10:30    | 0.50     | 10.50        | Install rig floor, tongs, handling equipment etc.  |
| 10:30      | 13:30    | 3.00     | 13.50        | Tally, drift & RIH as follows: 1 x 4' 73mm perforated pup with "bull nose" plug in place, 23 jts 73mm tubing, 1x 73mm PSN, 2 jts 73mm tbg. 1x 177.8mm tb anchor, 131 jts 73mm tbg & Tubing hanger. Land hanger and set anchor in 5 dAn tension. Tubing end landed @ 1489.91 mKB. PSN@ 1270.32 mKB. Bop drill held while RIH. Good response. No concerns. |
| 13:30      | 14:00    | 0.50     | 14.00        | RO floor handrails, tongs and all handling equipment.  |
| 14:00      | 14:30    | 0.50     | 14.50        | Remove & rack Bop's.   |
| 14:30      | 15:00    | 0.50     | 15.00        | Hoist string and remove 2' pup utilizing shallow slips. Re check anchor tension. Good. Land hanger and secure lag screws. NU 3k flowing well head and tighten down studs.  |
| 15:00      | 00:00    | 9.00     | 24.00        | Rig in to swab. Pull 36 swabbs recovering 41.12m3 fluid. PH=6, Sal ~ 132,000, H2s content @ 1.7%, LFLTR= 428.68m3  |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Water | 5.00         | 41.12          | 62.32              | 428.68               |

**Perforations**

| Date | Zone | Top (mKB) | Blm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |

**Tubing Components**

| Item Des                    | Top (mKB) |
|-----------------------------|-----------|
| Tubing Hanger/ 5DaN tension | 4.03      |
| Tubing                      | 4.43      |
| Anchor/catcher              | 1,250.57  |
| Tubing                      | 1,251.49  |
| Pump Seating Nipple         | 1,270.71  |
| Tubing                      | 1,271.04  |
| Perforated Joint            | 1,488.42  |
| Bull Plug/collar            | 1,489.67  |
|                             | 1,489.90  |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Concord Well Service**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/26/2011**

**Report #: 5.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 37,730**

**Cum Cost to Date: 1,188,930**

**Casing Strings**

| Csg Des      | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|---------------|-----------------|
| Production   |       |               |                 |
| Surface      | H-40  | 48.100        | 360.00          |
| Intermediate | L-80  | 34.228        | 1,531.00        |
| Liner        | L-80  | 17.263        | 2,529.00        |





Paramount resources ltd.

Business Unit: NE BC & NWT COU

Report Date: 3/27/2011  
 Report #: 6.0  
 Total AFE Amount: 1,324,615.00  
 AFE Number: 11N120017  
 Daily Cost Total: 75,364  
 Cum Cost to Date: 1,264,294

Daily Completion and Workover

PARA ET AL CAMERON 2H-03 HZ

Rig: Silverline Swabbing

|                         |                       |                             |                      |                       |            |                           |           |
|-------------------------|-----------------------|-----------------------------|----------------------|-----------------------|------------|---------------------------|-----------|
| APU/W                   | 302/H-03/6010-11730/0 | Surface Legal Location      | 300/2H-03/6010-11730 | Cameron Hills         | Field Name | 2073                      | License # |
| Well Configuration Type | HORIZ                 | Casing Flange Elevation (m) | 772.20               | Ground Elevation (m)  | 770.20     | Original KB Elevation (m) | 777.22    |
| Last Casing String      | Liner, 2,529.00mKB    | PBTD (All) (mKB)            |                      | Casing Pressure (kPa) | 2,722      | Tubing Pressure (kPa)     |           |

Objective  
 To stage fracture with 15% HCL the Suphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

Operations Summary  
 Puled 88 swabs today recovering 93.44m3 load fluid. Trace oil in samples. Salinity @ 120,000, PH= 6, Fluid level remaining constant @ +/- 700 meters.  
 Casing pressure ~ 6,000 kPa. LFLTR= 335.24m3. RC rig and move to M-74.

Operations Next Report Period  
 Rig in Silverline swab unit and continue to recover load fluid.

|                |                            |          |                                |           |          |          |
|----------------|----------------------------|----------|--------------------------------|-----------|----------|----------|
| Road Condition | Weather                    | Overcast | Start Date                     | 3/22/2011 | End Date | 4/2/2011 |
| Head Count     | Personnel Total Hours (hr) | 21.0     | Cum Personnel Total Hours (hr) | 184.00    | 812.00   |          |

|                    |               |              |             |        |
|--------------------|---------------|--------------|-------------|--------|
| Daily Contacts     |               | Title        | Job Contact | Mobile |
| Completion Manager | Lionel Larson | 403-290-3626 |             |        |
| Field Supervision  | Stephen Bags  | 780-717-9461 |             |        |
| Field Supervisor   | Milo Christie | 403-952-9163 |             |        |
| Rig Manager        | Dwayne Palmer | 403-357-6841 |             |        |

|          |       |            |          |          |              |     |
|----------|-------|------------|----------|----------|--------------|-----|
| Time Log |       | Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com |
| 00:00    | 07:30 | 7.50       | 7.50     |          |              |     |
| 07:30    | 07:30 | 7.50       |          |          |              |     |

Attended 07:00 safety meeting at plant, crew change safety meeting on location. Discussed USA and hazards associated with daily operations.  
 07:30-21:00hrs. Continue to swab/ evaluate Sulphur Point Dolomite HZ. Recovered a total of 93.44m3 fluid in 21 hours of swabbing today. PH = 6, Salinity +/- 120,000. Casing pressure ~6,061 and increasing during swabbing. Total fluid recovered = 150.76, LFLTR = 335.24 m3. H2s ~ 3.0%. Trace oil in samples, see test field notes for full details.  
 21:00

|                       |      |       |              |                |                    |                      |
|-----------------------|------|-------|--------------|----------------|--------------------|----------------------|
| Report Fluids Summary |      | Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
| Water                 | 0.00 | 93.44 | 155.76       | 335.24         |                    |                      |

|                   |  |          |           |           |           |                |
|-------------------|--|----------|-----------|-----------|-----------|----------------|
| Perforations      |  | Date     | Zone      | Top (mKB) | Btm (mKB) | Current Status |
| Tubing Components |  | Item Des | Top (mKB) |           |           |                |

|                |      |         |        |              |                 |
|----------------|------|---------|--------|--------------|-----------------|
| Casing Strings |      | Csg Des | Grade  | WVlen (kg/m) | Set Depth (mKB) |
| Production     | H-40 | 48.100  | 34.228 | 17.263       | 2,529.00        |
| Surface        | L-80 | 48.100  | 34.228 | 17.263       | 1,531.00        |
| Intermediate   | L-80 | 48.100  | 34.228 | 17.263       | 360.00          |
| Liner          | L-80 | 48.100  | 34.228 | 17.263       | 2,529.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Silverline Swabbing**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/28/2011**

**Report #: 7.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 35,760**

**Cum Cost to Date: 1,300,054**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)<br>6,072 | Tubing Pressure (kPa)<br>375        |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Total oilfield rigs out and returns frac manifold and 4 acid 400bbl tanks. Move on Silverline swabbers, continue to swab and recover post frac load fluid.

**Operations Next Report Period**  
Swab and recover post frac load fluid

|                        |                     |                         |                      |
|------------------------|---------------------|-------------------------|----------------------|
| Road Condition<br>Fair | Weather<br>Overcast | Start Date<br>3/22/2011 | End Date<br>4/2/2011 |
|------------------------|---------------------|-------------------------|----------------------|

|                   |                                     |  |
|-------------------|-------------------------------------|--|
| Head Count<br>5.0 | Personnel Total Hours (hr)<br>60.00 | Cum Personnel Total Hours (hr)<br>872.00 |
|-------------------|-------------------------------------|--|

**Daily Contacts**

| Title              | Job Contact   | Mobile       |
|--------------------|---------------|--------------|
| Completion Manager | Lionel Larson | 403-290-3626 |
| Field Supervision  | Stephen Baggs | 780-717-9461 |
| Field Supervisor   | Milo Christie | 403-952-9163 |
| Rig Manager        | Dwayne Palmer | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com  |
|------------|----------|----------|--------------|--|
| 05:00      | 08:15    | 3.25     | 3.25         | Total Oilfield rigs out and returns frac manifold and 4x acid 400bbl tanks.  |
| 08:15      | 09:15    | 1.00     | 4.25         | Conduct daily walkaround, lease inspection. Silverline swabbing receives Paramount orientation by project HSE advisor. Prejob safety meeting with all personnel, discuss scope of work and procedures. SITP 375kPa, SICP 6072kPa, H2S ~ 3%.<br><br>Total load left to recover = 335.2m3  |
| 09:15      | 11:00    | 1.75     | 6.00         | Move on and spot Silverline swab rig, flare stack and P-tank. Rig in as per Paramount Resources and government regulation. Rig in shipping line to 400bbl tanks. Make up 73mm swabbing equipment and lubricator, purge and pressure test same. Run in hole, fluid level tagged at 580mKB, swab well to recover remaining load fluid. |
| 11:00      | 16:00    | 5.00     | 11.00        | 15.6m3 total recovered after 16 swabs<br>Total load left to recover = 319.6m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 100   |
| 16:00      | 20:00    | 4.00     | 15.00        | 32.6m3 total recovered after 29 swabs<br>Total load left to recover = 302.6m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 100   |
| 20:00      | 00:00    | 4.00     | 19.00        | 43.8m3 recovered after 40 swabs<br>Total load left to recover = 291.4m3<br>pH = 6<br>Salinity = 130000<br>BSW% = not constant, see swab notes<br><br>Total oil recovered = 3.4m3   |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Water | 0.00         | 43.85          | 199.61             | 291.39               |

**Perforations**

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |

**Tubing Components**

| Item Des | Top (mKB) |
|----------|-----------|
|          |           |

**Casing Strings**

| Csg Des      | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|---------------|-----------------|
| Production   |       |               |                 |
| Surface      | H-40  | 48.100        | 360.00          |
| Intermediate | L-80  | 34.228        | 1,531.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Silverline Swabbing**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/28/2011**

**Report #: 7.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number:11N120017**

**Daily Cost Total: 35,760**

**Cum Cost to Date: 1,300,054**

**Casing Strings**

| Csg Des | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|---------|-------|---------------|-----------------|
| Liner   | L-80  | 17.263        | 2,529.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Silverline Swabbing**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/29/2011**

**Report #: 8.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 28,340**

**Cum Cost to Date: 1,328,394**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)<br>6,550 | Tubing Pressure (kPa)<br>50         |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Swabbing to recover post frac load fluid.

**Operations Next Report Period**  
Swab and recover post frac load fluid

|                        |                                     |  |                      |
|------------------------|-------------------------------------|--|----------------------|
| Road Condition<br>Fair | Weather<br>Partly cloudy            | Start Date<br>3/22/2011                  | End Date<br>4/2/2011 |
| Head Count<br>5.0      | Personnel Total Hours (hr)<br>60.00 | Cum Personnel Total Hours (hr)<br>932.00 |                      |

**Daily Contacts**

| Title              | Job Contact   | Mobile       |
|--------------------|---------------|--------------|
| Completion Manager | Lionel Larson | 403-290-3626 |
| Field Supervision  | Stephen Baggs | 780-717-9461 |
| Field Supervisor   | Milo Christie | 403-952-9163 |
| Rig Manager        | Dwayne Palmer | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com  |
|------------|----------|----------|--------------|--|
| 00:00      | 04:00    | 4.00     | 4.00         | Total load left to recover = 281.5m3<br>pH = 6<br>Salinity = 130000<br>BSW% = not consistant, see swab notes<br><br>Total oil recovered = 11.5m3 |
| 04:00      | 08:00    | 4.00     | 8.00         | Total load left to recover = 272.4m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 75   |
| 08:00      | 12:00    | 4.00     | 12.00        | Total load left to recover = 257.1m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 90<br><br>Total oil recovered = 15.7m3                             |
| 12:00      | 16:00    | 4.00     | 16.00        | Total load left to recover = 242.5m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 75<br><br>Total oil recovered = 18m3                               |
| 16:00      | 20:00    | 4.00     | 20.00        | Total load left to recover = 228.6m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 95<br><br>Total oil recovered = 21.6m3                             |
| 20:00      | 00:00    | 4.00     | 24.00        | Total load left to recover = 219m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 100<br><br>Total oil recovered = 25.68                               |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Water | 0.00         | 72.40          | 272.01             | 218.99               |

**Perforations**

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Silverline Swabbing**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/29/2011**

**Report #: 8.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number:11N120017**

**Daily Cost Total: 28,340**

**Cum Cost to Date: 1,328,394**

**Tubing Components**

| Item Des | Top (mKB) |
|----------|-----------|
|----------|-----------|

**Casing Strings**

| Csg Des      | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|---------------|-----------------|
| Production   |       |               |                 |
| Surface      | H-40  | 48.100        | 360.00          |
| Intermediate | L-80  | 34.228        | 1,531.00        |
| Liner        | L-80  | 17.263        | 2,529.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Silverline Swabbing**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/30/2011**

**Report #: 9.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 33,010**

**Cum Cost to Date: 1,361,404**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/UWJ<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)<br>6,405 | Tubing Pressure (kPa)<br>200        |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Swabbing to recover post frac load fluid

**Operations Next Report Period**  
Swab and recover post frac load fluid

|                        |                                     |  |                      |
|------------------------|-------------------------------------|--|----------------------|
| Road Condition<br>Fair | Weather<br>Partly cloudy            | Start Date<br>3/22/2011                  | End Date<br>4/2/2011 |
| Head Count<br>5.0      | Personnel Total Hours (hr)<br>60.00 | Cum Personnel Total Hours (hr)<br>992.00 |                      |

**Daily Contacts**

| Title              | Job Contact   | Mobile       |
|--------------------|---------------|--------------|
| Completion Manager | Lionel Larson | 403-290-3626 |
| Field Supervision  | Stephen Baggs | 780-717-9461 |
| Field Supervisor   | Milo Christie | 403-952-9163 |
| Rig Manager        | Dwayne Palmer | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com   |
|------------|----------|----------|--------------|---|
| 00:00      | 04:00    | 4.00     | 4.00         | Total load left to recover = 205.9m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 90<br><br>Total oil recovered = 29.2m3  |
| 04:00      | 04:00    |          | 4.00         | H2S sample taken = 1.5%   |
| 04:00      | 08:00    | 4.00     | 8.00         | Total load left to recover = 195.5m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 90<br><br>Total oil recovered = 33.9m3  |
| 08:00      | 12:00    | 4.00     | 12.00        | Total load left to recover = 180.8m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 90<br><br>Total oil recovered = 37.3m3  |
| 12:00      | 16:00    | 4.00     | 16.00        | Total load left to recover = 164.7m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 95<br><br>Total oil recovered = 40.3m3  |
| 16:00      | 20:00    | 4.00     | 20.00        | Total load left to recover = 149.6m3<br>pH = 6<br>Salinity = 120000<br>BSW% = 100<br><br>Total oil recovered = 42.7m3 |
| 20:00      | 00:00    | 4.00     | 24.00        | Total load left to recover = 137.1m3<br>pH = 6<br>Salinity = 120000<br>BSW% = 80<br><br>Total oil recovered = 47.1m3  |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Water | 0.00         | 81.90          | 353.91             | 137.09               |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Silverline Swabbing**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/30/2011**

**Report #: 9.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number:11N120017**

**Daily Cost Total: 33,010**

**Cum Cost to Date: 1,361,404**

**Perforations**

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |

**Tubing Components**

| Item Des | Top (mKB) |
|----------|-----------|
|          |           |

**Casing Strings**

| Csg Des      | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|---------------|-----------------|
| Production   |       |               |                 |
| Surface      | H-40  | 48.100        | 360.00          |
| Intermediate | L-80  | 34.228        | 1,531.00        |
| Liner        | L-80  | 17.263        | 2,529.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Silverline Swabbing**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/31/2011**

**Report #: 10.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 32,440**

**Cum Cost to Date: 1,393,844**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/JVM<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)<br>6,430 | Tubing Pressure (kPa)<br>100        |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Swabbing to recover post frac load fluid

**Operations Next Report Period**  
Swab and recover post frac load fluid

|                        |                                     |  |                      |
|------------------------|-------------------------------------|--|----------------------|
| Road Condition<br>Fair | Weather<br>Partly cloudy            | Start Date<br>3/22/2011                    | End Date<br>4/2/2011 |
| Head Count<br>5.0      | Personnel Total Hours (hr)<br>60.00 | Cum Personnel Total Hours (hr)<br>1,052.00 |                      |

**Daily Contacts**

| Title              | Job Contact   | Mobile       |
|--------------------|---------------|--------------|
| Completion Manager | Lionel Larson | 403-290-3626 |
| Field Supervision  | Stephen Baggs | 780-717-9461 |
| Field Supervisor   | Milo Christie | 403-952-9163 |
| Rig Manager        | Dwayne Palmer | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com  |
|------------|----------|----------|--------------|--|
| 00:00      | 04:00    | 4.00     | 4.00         | Total load left to recover = 125m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 90<br><br>Total oil recovered = 52.6m3   |
| 04:00      | 08:00    | 4.00     | 8.00         | Total load left to recover = 114.1m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 90<br><br>Total oil recovered = 57.8m3 |
| 08:00      | 12:00    | 4.00     | 12.00        | Total load left to recover = 99.8m3<br>pH = 6<br>Salinity = 120000<br>BSW% = 80<br><br>Total oil recovered = 61.8m3  |
| 12:00      | 16:00    | 4.00     | 16.00        | Total load left to recover = 84.2m3<br>pH = 6<br>Salinity = 120000<br>BSW% = 90<br><br>Total oil recovered = 66m3    |
| 16:00      | 20:00    | 4.00     | 20.00        | Total load left to recover = 71.4m3<br>pH = 6<br>Salinity = 120000<br>BSW% = 45<br><br>Total oil recovered = 71.5m3  |
| 20:00      | 00:00    | 4.00     | 24.00        | Total load left to recover = 58.3m3<br>pH = 6<br>Salinity = 130000<br>BSW% = 75<br><br>Total oil recovered = 75.7m3  |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Oil   | 0.00         | 52.40          | 52.40              | -52.40               |
| Water | 0.00         | 78.80          | 432.71             | 58.29                |

**Perforations**

| Date | Zone | Top (mKB) | Btn (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |





**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Silverline Swabbing**

**Business Unit: NE BC & NWT COU**

**Report Date: 3/31/2011**

**Report #: 10.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number:11N120017**

**Daily Cost Total: 32,440**

**Cum Cost to Date: 1,393,844**

**Tubing Components**

| Item Des | Top (mKB) |
|----------|-----------|
|          |           |

**Casing Strings**

| Csg Des      | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|---------------|-----------------|
| Production   |       |               |                 |
| Surface      | H-40  | 48.100        | 360.00          |
| Intermediate | L-80  | 34.228        | 1,531.00        |
| Liner        | L-80  | 17.263        | 2,529.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Silverline Swabbing**

**Business Unit: NE BC & NWT COU**

**Report Date: 4/1/2011**

**Report #: 11.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 55,030**

**Cum Cost to Date: 1,448,874**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)<br>6,250 | Tubing Pressure (kPa)<br>100        |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Swab and recover post frac load fluid. Rig out Silverline swab rig, P-tank and flare stack.

**Operations Next Report Period**  
Service rig to return and run pump and rods.

|                        |                                     |  |                      |
|------------------------|-------------------------------------|--|----------------------|
| Road Condition<br>Fair | Weather<br>Partly cloudy            | Start Date<br>3/22/2011                    | End Date<br>4/2/2011 |
| Head Count<br>5.0      | Personnel Total Hours (hr)<br>60.00 | Cum Personnel Total Hours (hr)<br>1,112.00 |                      |

**Daily Contacts**

| Title              | Job Contact   | Mobile       |
|--------------------|---------------|--------------|
| Completion Manager | Lionel Larson | 403-290-3626 |
| Field Supervision  | Stephen Baggs | 780-717-9461 |
| Field Supervisor   | Milo Christie | 403-952-9163 |
| Rig Manager        | Dwayne Palmer | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com  |
|------------|----------|----------|--------------|--|
| 00:00      | 05:30    | 5.50     | 5.50         | Total load left to recover = 43.5m3<br>pH = 6<br>Salinity = 120000<br>BSW% = 75<br><br>Total oil recovered = 82.9m3<br>Total water and oil recovered = 530.4m3 |
| 05:30      | 05:30    |          | 5.50         | Final swab notes in WellView attachments.  |
| 05:30      | 07:00    | 1.50     | 7.00         | Rig out Silverline swab rig P-tank and flare stack. Move equipment to I-73.  |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Oil   | 0.00         | 30.50          | 82.90              | -82.90               |
| Water | 0.00         | 14.80          | 447.51             | 43.49                |

**Perforations**

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |

**Tubing Components**

| Item Des | Top (mKB) |
|----------|-----------|
|          |           |

**Casing Strings**

| Csg Des      | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|---------------|-----------------|
| Production   |       |               |                 |
| Surface      | H-40  | 48.100        | 360.00          |
| Intermediate | L-80  | 34.228        | 1,531.00        |
| Liner        | L-80  | 17.263        | 2,529.00        |



**Paramount**  
resources ltd.

**Daily Completion and Workover**

**PARA ET AL CAMERON 2H-03 HZ**

**Rig: Silverline Swabbing**

**Business Unit: NE BC & NWT COU**

**Report Date: 4/2/2011**

**Report #: 12.0**

**Total AFE Amount: 1,324,615.00**

**AFE Number: 11N120017**

**Daily Cost Total: 177,615**

**Cum Cost to Date: 1,626,488**

|  |  |                                |                                     |
|--|--|--------------------------------|-------------------------------------|
| API/JWI<br>302/H-03/6010-11730/0         | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                   |
| Well Configuration Type<br>HORIZ         | Casing Flange Elevation (m)<br>772.20          | Ground Elevation (m)<br>770.20 | Original KB Elevation (m)<br>777.22 |
| Last Casing String<br>Liner, 2,529.00mKB | PBTD (All) (mKB)                               | Casing Pressure (kPa)<br>6,282 | Tubing Pressure (kPa)<br>1,399      |

**Objective**  
To stage fracture with 15% HCL the Sulphur Point Dolomite formation utilizing a 9 stage Packers Plus system.

**Operations Summary**  
Moved from M-74 to 2H-03 location. Rigged in complete. Installed pumping well head. Perforated tubing below "psn" @ 1271 mKB. Ran pump and rods. Pressure tested and stroke tested to 3,500 kPa. Rigged out equipment.

**Operations Next Report Period**  
NO REPORT. TOTP.

|                        |                     |                         |                      |
|------------------------|---------------------|-------------------------|----------------------|
| Road Condition<br>Fair | Weather<br>Overcast | Start Date<br>3/22/2011 | End Date<br>4/2/2011 |
|------------------------|---------------------|-------------------------|----------------------|

|                   |                                     |  |
|-------------------|-------------------------------------|--|
| Head Count<br>5.0 | Personnel Total Hours (hr)<br>60.00 | Cum Personnel Total Hours (hr)<br>1,172.00 |
|-------------------|-------------------------------------|--|

**Daily Contacts**

| Title                               | Job Contact | Mobile       |
|-------------------------------------|-------------|--------------|
| Completion Manager<br>Lionel Larson |             | 403-290-3626 |
| Field Supervision<br>Stephen Baggs  |             | 780-717-9461 |
| Field Supervisor<br>Milo Christie   |             | 403-952-9163 |
| Rig Manager<br>Dwayne Palmer        |             | 403-357-6841 |

**Time Log**

| Start Time | End Time | Dur (hr) | Cum Dur (hr) | Com   |
|------------|----------|----------|--------------|---|
| 06:00      | 06:30    | 0.50     | 0.50         | 07:30 Attended daily safety meeting at plant. held safety meeting on M-74 location with rig personnel.  |
| 06:30      | 08:30    | 2.00     | 2.50         | Moved mobile equipment from M-74 to location.   |
| 08:30      | 10:30    | 2.00     | 4.50         | Spot mats on 2H-03 with rig support unit. Rig in pump and tank complete. Place rig on matting, raise and center over hole. Rig in complete to Paramount, NEB and OH&S specifications. Haul 14m3 fluid from M-74 and place in RT. Haul in 10m3 from source lake 3.   |
| 10:30      | 14:00    | 3.50     | 8.00         | Moved in Pure Energy electric line unit. Held safety meeting. Made up and RIH 4 gramm, 5 shot tubing perf gun. Located PSN and tubing anchor with CCL. Correlated on depth. Attempted to fire gun. NO Detonation visible at surface. POOH, held 100m from surface safety sweep and pulled live gun from well. Troubleshoot firing fault. RIH with re-wired gun. Correlate on depth and perforate tubing @ 1271.0 mKB. POOH, RO & release Pure Energy. |
| 14:00      | 15:30    | 1.50     | 9.50         | Moved in and unloaded rod string and pumping well head assembly.  |
| 15:30      | 16:30    | 1.00     | 10.50        | Pumped 10.0 m3 water to casing, 5.0 m3 down tubing. Well on vac. Removed 3k flowing well head and installed Stream-Flow supplied CPT pumping well head.   |
| 16:30      | 20:00    | 3.50     | 14.00        | Checked pump card with pump. Good. Surface tested pump and ran in hole. Set in PSN @ 1270.3 mKB. Pressure tested pump with rig pump to 3,500 kPa. Good. Bleed off and stroke tested to 3,500 kPa s well. Good test. Set pump 10" off tap and clamp off. Max pump stroke 188", Jack stroke set for 168".   |
| 20:00      | 00:00    | 4.00     | 18.00        | RO rig and equipment.   |

**Report Fluids Summary**

| Fluid | To well (m³) | From well (m³) | Cum from Well (m³) | Left to recover (m³) |
|-------|--------------|----------------|--------------------|----------------------|
| Oil   | 0.00         | 0.00           | 82.90              | -82.90               |
| Water | 20.00        | 0.00           | 447.51             | 63.49                |

**Perforations**

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
|      |      |           |           |                |

**Tubing Components**

| Item Des | Top (mKB) |
|----------|-----------|
|          |           |

**Casing Strings**

| Csg Des      | Grade | Wt/Len (kg/m) | Set Depth (mKB) |
|--------------|-------|---------------|-----------------|
| Production   |       |               |                 |
| Surface      | H-40  | 48.100        | 360.00          |
| Intermediate | L-80  | 34.228        | 1,531.00        |
| Liner        | L-80  | 17.263        | 2,529.00        |

# Stimulations



**Paramount**  
resources ltd.

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | License #<br>2073              | Field Name<br>Cameron Hills           | State/Province<br>NT                |
| Well Configuration Type<br>HORIZ | Original KB Elevation (m)<br>777.22            | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | KB-Tubing Head Distance (m)<br>4.52 |

| Production Casing |          |                 |         |              |       |
|-------------------|----------|-----------------|---------|--------------|-------|
| Csg Des           | Run Date | Set Depth (mKB) | OD (mm) | WVLen (kg/m) | Grade |
| Production        |          |                 |         |              |       |

| Tubing Strings      |           |                 |                            |           |       |
|---------------------|-----------|-----------------|----------------------------|-----------|-------|
| Des                 | Run Date  | Set Depth (mKB) | String Max Nominal OD (mm) | Wt (kg/m) | Grade |
| Tubing - Production | 3/26/2011 | 1,489.90        | 73.0                       | 9.673     | J-55  |

| Perforations |      |           |           |                |
|--------------|------|-----------|-----------|----------------|
| Date         | Zone | Top (mKB) | Btm (mKB) | Current Status |
|              |      |           |           |                |

| Acid Frac on 3/25/2011 12:00 |                |                                 |                 |                                     |                         |
|------------------------------|----------------|---------------------------------|-----------------|-------------------------------------|-------------------------|
| Date                         | Type           | Stim/Treat Company              | Zone            | Job                                 |                         |
| 3/25/2011                    | Acid Frac      | BJ Services Company             |                 | Initial Completion, 3/22/2011 07:30 |                         |
| Proppant In Wellbore (kg)    | P Pre SI (kPa) | Instant. Shut-in Pressure (kPa) | P Post SI (kPa) | Proppant In Formation (kg)          | Shut-in Time Final (hr) |
|                              |                | 18,200                          | 5,800           |                                     | 2,000.00                |

Comment  
365m3 15% HCL / 121m3 water nitrified acid frac.

| <fluidname>, <fluidtyp> |            |                   |                       |                  |
|-------------------------|------------|-------------------|-----------------------|------------------|
| Fluid Name              | Fluid Type | Description       | Fluid Density (kg/m³) | Filter Size (mm) |
| Additive                | Units      | Concentration (%) |                       |                  |

| <stagenum>, <stagetyp>   |                           |                             |                           |                          |                       |
|--------------------------|---------------------------|-----------------------------|---------------------------|--------------------------|-----------------------|
| Stage Number             | Stage Type                | Start Date                  | End Date                  | Top Depth (mKB)          | Bottom Depth (mKB)    |
| ing Pressure Start (kPa) | Pressure Tubing End (kPa) | Casing Pressure Start (kPa) | Casing Pressure End (kPa) | Clean Volume Pumped (m³) | Volume Recovered (m³) |
| Stim/Treat Fluid         | Gas Type                  | Gas Rate (m³/min)           | Gas Volume (E3m³)         | Comment                  |                       |
| Additive                 | Sand Size                 | Units                       | Amount                    | Type                     | Conc (kg/m³) Note     |

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|

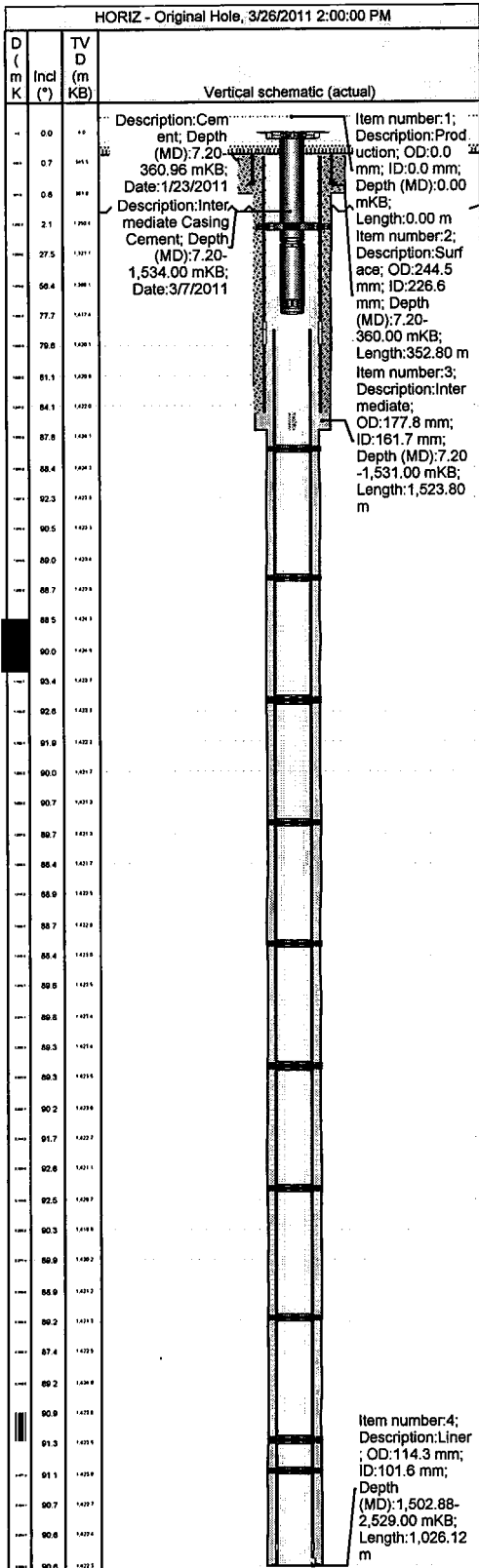


# Tubing

**Paramount**  
resources ltd.

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | License #<br>2073              | Field Name<br>Cameron Hills           | State/Province<br>NT                |
| Well Configuration Type<br>HORIZ | Original KB Elevation (m)<br>777.22            | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | KB-Tubing Head Distance (m)<br>4.52 |



| Tubing              |                             |         |         |                 |       |            |          |           |           |
|---------------------|-----------------------------|---------|---------|-----------------|-------|------------|----------|-----------|-----------|
| Tubing Description  |                             |         |         | Set Depth (mKB) |       | Run Date   |          | Pull Date |           |
| Tubing - Production |                             |         |         | 1,489.90        |       | 3/26/2011  |          |           |           |
| Jts                 | Item Des                    | OD (mm) | ID (mm) | Wt (kg/m)       | Grade | Top Thread | Len (m)  | Top (mKB) | Btm (mKB) |
| 1                   | Tubing Hanger/ 5DaN tension | 177.8   | 73.0    |                 |       |            | 0.40     | 4.03      | 4.43      |
| 131                 | Tubing                      | 73.0    | 62.0    | 9.673           | J-55  |            | 1,246.14 | 4.43      | 1,250.57  |
| 1                   | Anchor/catcher              | 161.7   | 73.0    |                 |       |            | 0.92     | 1,250.57  | 1,251.49  |
| 2                   | Tubing                      | 73.0    | 62.0    | 9.673           | J-55  |            | 19.22    | 1,251.49  | 1,270.71  |
| 1                   | Pump Seating Nipple         | 73.0    |         |                 |       |            | 0.33     | 1,270.71  | 1,271.04  |
| 23                  | Tubing                      | 73.0    | 62.0    | 9.673           | J-55  |            | 217.38   | 1,271.04  | 1,488.42  |
| 1                   | Perforated Joint            | 73.0    |         |                 |       |            | 1.25     | 1,488.42  | 1,489.67  |
| 1                   | Bull Plug/collar            | 73.0    |         |                 |       |            | 0.23     | 1,489.67  | 1,489.90  |
|                     |                             |         |         |                 |       |            |          | 1,489.90  | 1,489.90  |

# Geological Report

For

**Para et al Cameron 2H-03**

**Surface Location: Unit 2H Section 03**

**Grid 60° 10' 117° 30'**

**UWI: 302H036010117300**

**NEB ADW WID #: 2073**



**Well Reached Total Depth on  
March 2011**

**Report For:**

**Jason Galbraith  
Geologist  
Paramount Resources Ltd.  
Calgary, Alberta**

**Reported By:**

**Mashhood A Chaudhry**

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**Moh & Associates Oilfield Consultants Ltd.  
Calgary, Alberta.**

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## WELL ABSTRACT

The well Para et al Cameron 2H-03 is located in Cameron Hills field of NWT Mainland. The main objective of drilling this well is to investigate the Lower Sulphur Point Dolomite porosity horizontally for the production of hydrocarbons and to confirm the structure.

The drilling contractor engaged to drill this well was Nabors *Drilling Rig # 24*. Services of Phoenix Technology services LP were retained for directional drilling and to run real time gamma ray. The well was spudded on January 20, 2011 at 2345 hrs. A surface hole of the size of 349mm was drilled to 361m, and a surface casing of 244.5mm was run to 360m. The size of the intermediate hole is 222mm. The well was kicked off from 1266m MD. The rig sank few times and was to be jacked and skidded during this time. Finally the drilling was suspended @ 1333m MD to reconstruct the lease. The rig was moved out to E-52 on Feb. 05, 2011 and pilings were put into the ground to stabilize the rig site. The rig was moved back on Feb. 16, 2011 and drilling resumed on Fe. 21, 2011.

The bit and mud motor were lost in the hole at 1424m MD. The fishing efforts were unsuccessful and well was plugged and side tracked from 1333m MD.

The well was landed just on top of the Lower Sulphur Point Dolomite at 1534m MD, TVD 1422.09m (SS -644.87m). Intermediate casing of 177.8mm ran to 1531m MD; and 156 mm horizontal hole was drilled to a TD of 2534m MD. The well got drilled to 2537m MD during reaming. During steering of the well, in the horizontal section, the objective was to follow Lower Sulphur Point porosity.

The geological formations were identified after detailed examination of drill cuttings, correlation of offset logs and the gamma ray tool response. The formation tops were close to the prognosis.

The Compact memory logging tool package was run from surface to 2511m MD by DataLog LWT, after TD of the horizontal section.



The production casing of OD 114.3mm (ID 98.4mm) was run to frac and test the well and obtain production.

## FORMATION EVALUATION

### **SLAVE POINT FORMATION**

*Middle or Upper Devonian*

*397.5-385.3 Million Years*

**Slave point Formation** in this well was picked in samples at 1346m TVD. Electrical logs indicate its top at 1345.5mTVD (SS -568.25 m). Slave Point is a 41m thick limestone. It is brown, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-very fine crystalline. It is slightly argillaceous and bituminous and contains pyrite nodules at places. It becomes slightly dolomitic and anhydritic towards lower part. The Slave point is mostly tight with 0-3% porosity. It has a local 6-9% pin point and earthy porosity. Slave point has hydrocarbon shows and gives milky white good-fair streaming cut with petriferous odour. A formation gas show of 250 units against a background of 17 units was registered by gas detector at 1358.5mTVD.

The Slave Point formation in this well does not seem to have commercially produceable hydrocarbons.

### **SULPHUR POINT FORMATION**

*Middle Devonian*

*397.5 Million Years*

**Sulphur Point Limestone** is 18m thick, from 1397m TVD (SS- 619.78m) to 1415 m TVD (SS -637.78m), as seen on the logs. It is brown-buff, mudstone-wakestone, micritic, cryptocrystalline-trace very fine crystalline, argillaceous and locally slightly dolomitic. It also has some hydrocarbon shows. It has up to 3-6% porosity. It had 300/100 and 300/50 units of gas show at 1307 and 1314m TVD.

Sulphur Point Limestone does not seem to be promising in this well.

**Upper Sulphur Point Dolomite** is 7m thick from 1415 – 1422m TVD. It is brown-dark brown, grainstone, very fine-fine crystalline, with some free crystals and minor bituminous partings. It has intercrystalline, rare to minor vuggy, porosity streaks in the range of 3-6%. It has yellow white good streaming cut.

**Lower Sulphur Point Dolomite** The well is landed above Lower Sulphur Point at 1534m MD, 1422.26m TVD (SS -645.04). The Lower Sulphur Point top at the heel of horizontal section was encountered at 1543.8m MD, TVD 1423.02 (SS -645.8m) and at the Toe at 2530m MD, 1421.22m TVD (SS -644m).

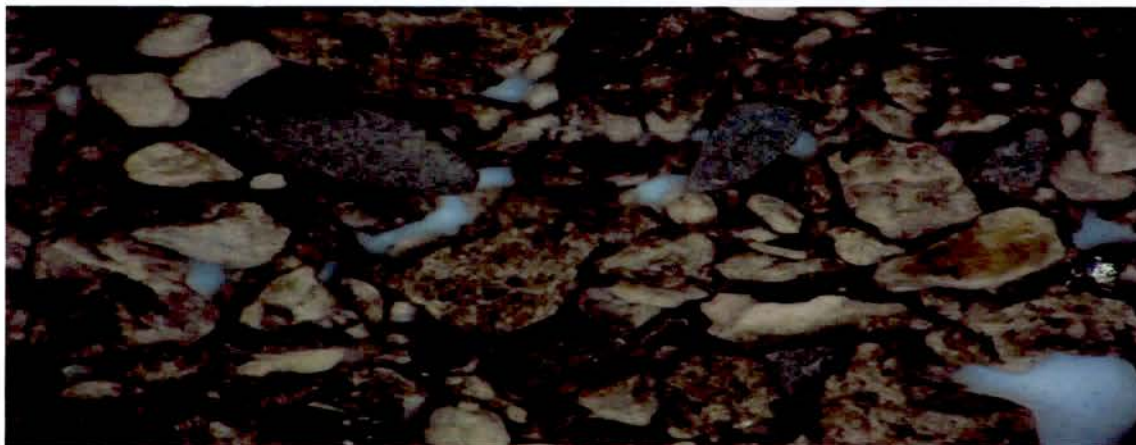
**The dolomite in the horizontal section** is medium to dark brown, light brown at places, grainstone-packstone, very fine-minor fine crystalline, with free crystals at the top, and local traces of bitumin partings. It has an estimated intercrystalline, vuggy and occasional fracture porosity ranging mostly from 3-9% throughout the horizontal section. The dolomite mostly has yellow white good streaming cut. On induction log it shows 20-90 ohms deep and medium induction.

In the intervals where the well path is in the zone, the formation has gas shows in the range of 350 to 700 units. Gas shows of 2300/50 units at 2299m MD, 1090/50 units at 1871m MD and 1300/54 units at 1815m MD, were also recorded by the gas detector.

The Dolomite in the horizontal section has a potential of oil and gas production.

Some photos of Sulphur Point Dolomite in horizontal section are included in the drill cuttings photos section.

**PHOTOS OF DRILL CUTTINGS FROM  
SLAVE POINT AND SULPHUR POINT FORMATIONS**



*Slave Pt. Lst 1365-1370mMD- Build Section of 2H-03*



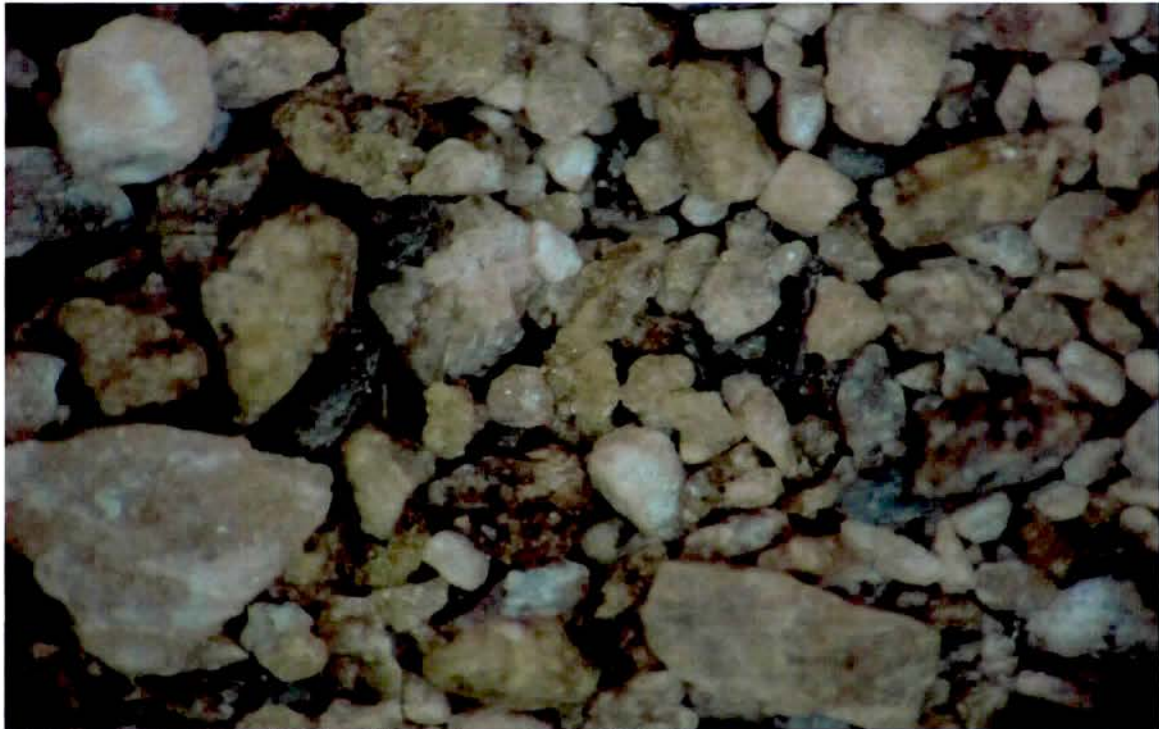
*Sul Pt. Lst. 1435-1440mMD- Build Sec. 2H-03*



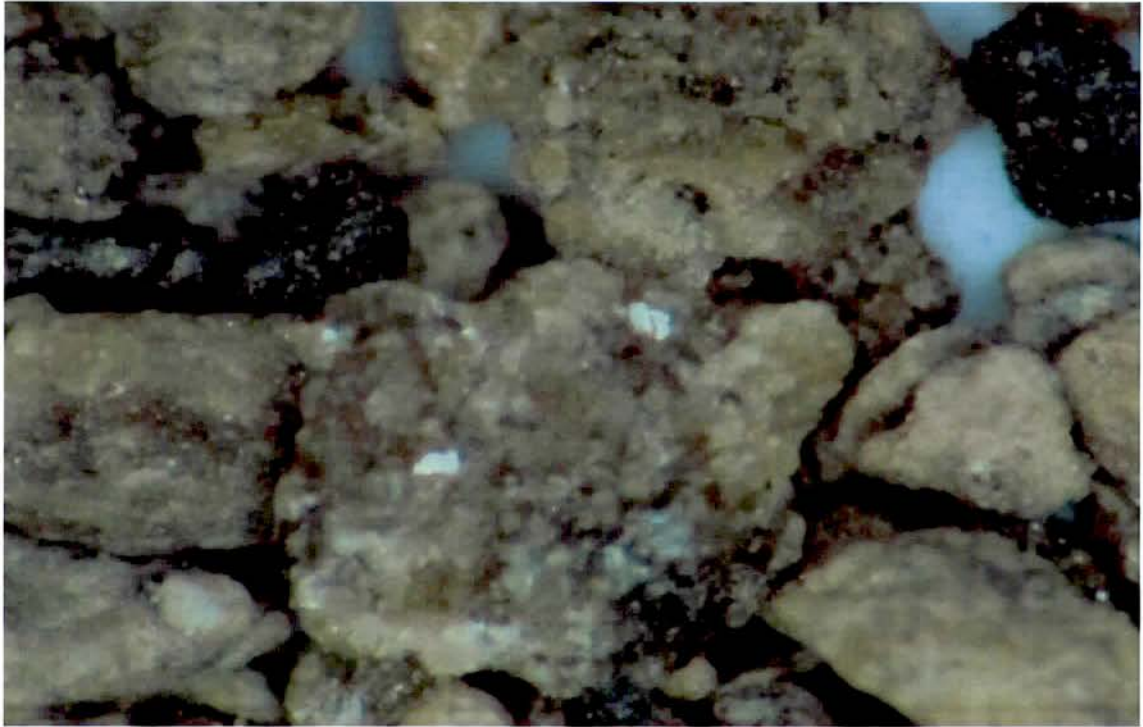
*Sul Pt. Dol. 1500-1505mMD-Build Sec. 2H-03*



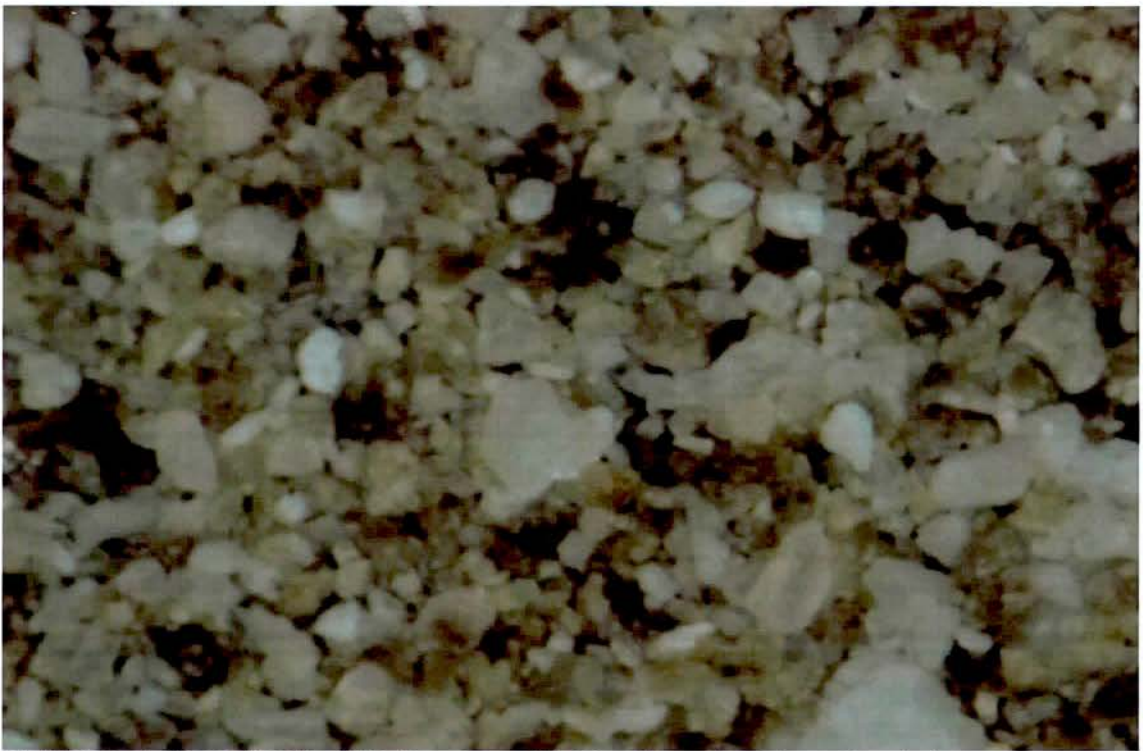
Sul Pt. Dol. 1520-1525mMD-Build Sec. 2H-03-Vuggy Porosity



Sul Pt. Dol. 1530-1534mMD-At Landing of 2H-03



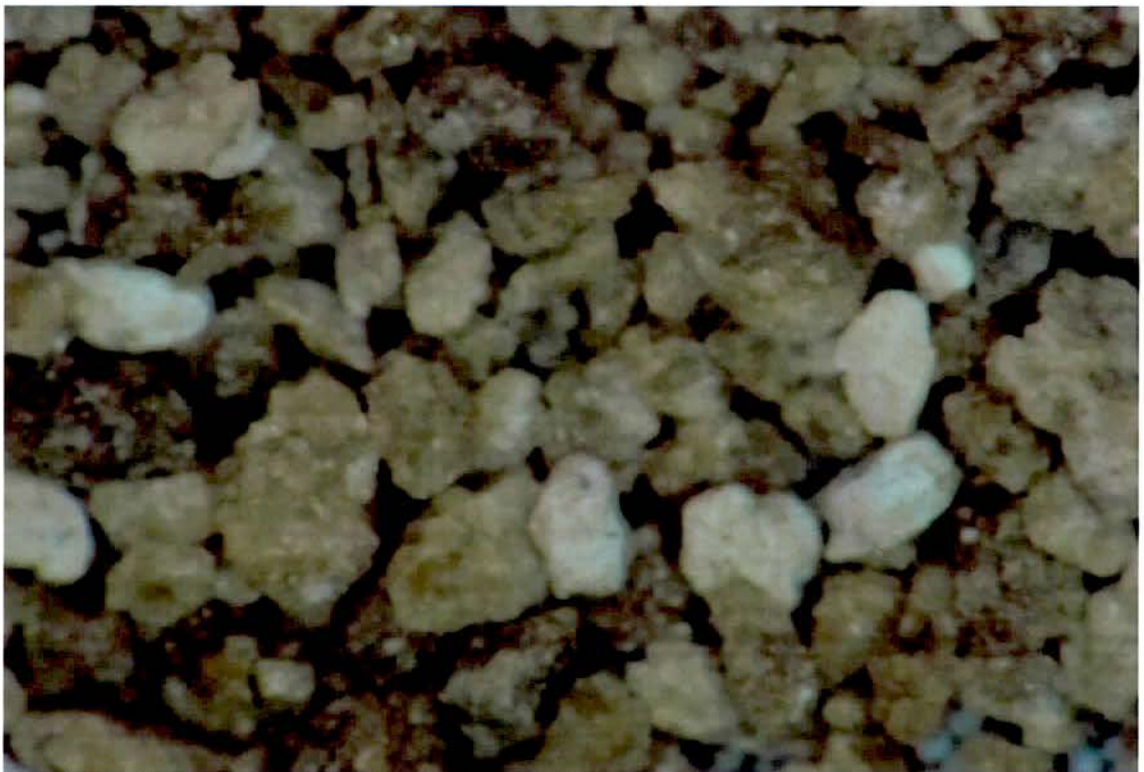
Sul Pt. Dol 1560-1565mMD-Hor Sec. 2H-03- Vuggy Porosity



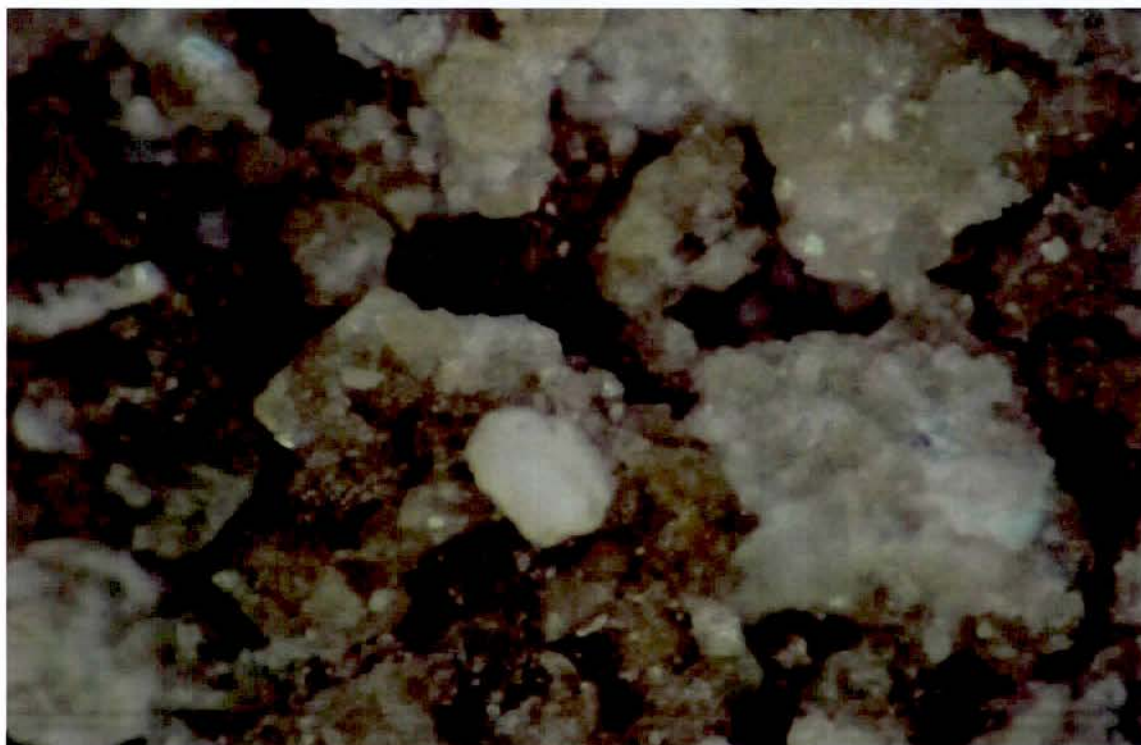
Sul Pt Dol 1830-1835mMD Hor Sec 2H-03- Abundant free Crystals



Sul Pt Dol 1955-1960mMD Hor Sec 2H-03- Vuggy Porosity



Sul Pt Dol 2270-2275mMD Hor Sec 2H-03



Sul Pt Dol 2485-2490mMD Hor Sec 2H-03-Free crystals and Vugs



Sul Pt Dol 2530-2534mMD Hor Sec 2H-03



**SUMMARY OF WELL DATA**

|                           |  |
|---------------------------|--|
| OPERATOR                  | Paramount Resources Ltd.                 |
| WELL NAME                 | Para et al 2H-03                         |
| SURFACE LOCATION          | Unit 2H Section 03 Grid 60° 10' 117° 30' |
| SURFACE COORDINATES       | Lat. 60° 02' 20.4" Long. 117° 30' 6.3"   |
| BOTTOM HOLE COORDINATES   | --                                       |
| UWI                       | 302H036010117300                         |
| FIELD                     | Cameron Hills                            |
| PROVINCE/REGION           | NWT Mainland                             |
| WELL LICENCE NUMBER       | 2073                                     |
| WELL TYPE                 | Horizontal Development Well.             |
| A.F.E. NUMBER             | 10N110009                                |
| GROUND ELEVATION          | 770.20m                                  |
| K.B. ELEVATION            | 777.22m                                  |
| DRILLING CONTRACTOER      | Nabors Drilling Rig # 24                 |
| SPUD DATE                 | January 20, 2011 @ 2345Hrs.              |
| COMPLETED DRILLING        | March 16, 2011 @ 0215 Hrs.               |
| TOTAL DEPTH DRILLER       | 2537MD m.                                |
| TOTAL DEPTH LOGGERS       |  |
| SURFACE HOLE SIZE         | 349 mm.                                  |
| INTERMEDIATE HOLE SIZE    | 222 mm.                                  |
| MAIN/HORIZONTAL HOLE SIZE | 156 mm.                                  |

SAMPLES For PARAMOUNT  
RESOURCES LTD.

None.

SAMPLES FOR NEB

1275m MD to TD, 2 sets of vial and  
one set of unwashed bags.

#### SURFACE CASING RECORD

| Size OD (mm) | Size ID (mm) | Weight Kg/m | Make  | Type | Grade | Shoe at (m) | No Of Joints | Remarks |
|--------------|--------------|-------------|-------|------|-------|-------------|--------------|---------|
| 244.5        | 228.6        | 48.1        | Evraz | ST&C | J-55  | 360         | 27           | New     |
|              |              |             |       |      |       |             |              |         |

#### INTERMEDIATE CASING RECORD

| Size OD (mm) | Size ID (mm) | Weight Kg/m | Make  | Type | Grade | Shoe at (m) | No Of Joints | Remarks |
|--------------|--------------|-------------|-------|------|-------|-------------|--------------|---------|
| 177.8        | 158.5        | 34.3        | Evraz | LT&C | L-80  | 1531        | 115          | New     |
|              |              |             |       |      |       |             |              |         |

#### LOG RECORD

| Company     | Log Type  | Interval ( m )                                   |
|-------------|---|--|
| DataLog LWT | 1.Compensated Neutron Density Gamma Ray Log.<br>+ Density Porosity Log<br>2. Dual Induction Gamma Ray | 2511-5.05m MD<br>1532- 2511m MD<br>2511-1532m MD |

**STATUS: POTENTIAL LOWERSULPHUR POINT OIL WELL.**

**SUMMARY OF GEOLOGICAL MARKERS, TESTS & CORES****GEOLOGICAL MARKERS**

K.B: 777.22m

| FORMATION MARKER            | SAMPLE TOP |         | LOGS TOP |         |            |
|-----------------------------|------------|---------|----------|---------|------------|
|                             | TMD (m)    | TVD(m)  | TMD (m)  | TVD(m)  | Subsea (m) |
| WABAMUN                     | -          | -       | 551.5    | 551.5   | 225.72     |
| JEAN MARIE                  | -          | -       | 712.0    | 712.0   | 065.22     |
| FORT SIMPSON                | -          | -       | 720.0    | 720.0   | 057.22     |
| TWIN FALLS                  | -          | -       | 832.0    | 832.0   | 054.78     |
| HAY RIVER                   | -          | -       | 1065.0   | 1065.0  | -287.78    |
| BEAVERHILL LAKE             | 1325.0     | 1322.0  | 1325.0   | 1322.0  | -544.78    |
| SLAVE POINT                 | 1353.0     | 1346.0  | 1352.0   | 1345.5  | -568.28    |
| F 4                         | 1412.0     | 1387.0  | 1411.5   | 1386.5  | -609.28    |
| WATT MOUNTAIN               | 1425.5     | 1394.0  | 1424.0   | 1393.5  | -616.28    |
| SULPHUR POINT LST           | 1433.0     | 1397.5  | 1431.5   | 1397.0  | -619.78    |
| SULPHUR POINT DOL.          | 1483.5     | 1415.0  | 1486.0   | 1415.0  | -638.56    |
| ICP/LANDING                 | 1534.0     | 1422.26 | -        | -       | -645.04    |
| LR. SULPHUR PT. DOL AT HEEL |            |         | 1544.0   | 1423.02 | -645.80    |
| LR. SULPHUR PT. DOL AT TOE  |            |         | 2530.0   | 1421.22 | -644.00    |
| TOTAL DEPTH DRILLER         | 2537.0     | 421.20  | 2537.0   | 1421.20 | -643.98    |
| TOTAL DEPTH LOGGERS         |            |         | 2535.1   | 1421.20 | -643.98    |

**CORES**

DATE:

| Formation | Interval (m) | Recovered. | Recovery % | Coring Equip. |
|-----------|--------------|------------|------------|---------------|
|           |              |            |            |               |
|           |              |            |            |               |

**SIDE WALL CORING SUMMARY**

CORING DATE:

| Plug # | Time | Depth(m) | Recovery | Plug # | Time | Depth(m) | Recovery |
|--------|------|----------|----------|--------|------|----------|----------|
|        |      |          |          |        |      |          |          |
|        |      |          |          |        |      |          |          |

## DIRECTIONAL SURVEYS

| Measured<br>Depth<br>Meters | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | Subsea<br>TVD<br>Meters | N-S<br>Meters | E-W<br>Meters | Vertical<br>Section<br>Meters | CLOSURE<br>Distance<br>Meters | CLOSURE<br>Direction<br>Deg | Dogleg<br>Severity<br>Deg/30 |
|-----------------------------|----------------------|---------------------------|---------------------------|-------------------------|---------------|---------------|-------------------------------|-------------------------------|-----------------------------|------------------------------|
| .00                         | .00                  | .00                       | .00                       | 777.22                  | .00           | .00           | .00                           | .00                           | .00                         | .00                          |
| 396.60                      | .90                  | 303.30                    | 396.58                    | 380.64                  | 1.71          | -2.60         | -1.73                         | 3.11                          | 303.30                      | .07                          |
| 532.47                      | 1.90                 | 250.90                    | 532.42                    | 244.80                  | 1.56          | -5.62         | -1.60                         | 5.84                          | 285.49                      | .34                          |
| 666.78                      | 2.90                 | 242.90                    | 666.61                    | 110.61                  | -.72          | -10.75        | .63                           | 10.78                         | 266.18                      | .24                          |
| 798.94                      | .20                  | 171.70                    | 798.71                    | -21.49                  | -2.47         | -13.70        | 2.36                          | 13.92                         | 259.78                      | .65                          |
| 933.16                      | .50                  | 146.10                    | 932.93                    | -155.71                 | -3.19         | -13.34        | 3.08                          | 13.71                         | 256.56                      | .07                          |
| 1066.81                     | .50                  | 135.40                    | 1066.57                   | -289.35                 | -4.09         | -12.60        | 3.99                          | 13.25                         | 252.03                      | .02                          |
| 1200.43                     | .80                  | 52.00                     | 1200.18                   | -422.96                 | -3.93         | -11.46        | 3.84                          | 12.11                         | 251.08                      | .20                          |
| 1223.05                     | 1.10                 | 29.20                     | 1222.80                   | -445.58                 | -3.64         | -11.23        | 3.55                          | 11.80                         | 252.03                      | .63                          |
| 1232.45                     | 1.20                 | 21.50                     | 1232.20                   | -454.98                 | -3.47         | -11.15        | 3.38                          | 11.67                         | 252.71                      | .59                          |
| 1242.03                     | 1.10                 | 11.20                     | 1241.78                   | -464.56                 | -3.29         | -11.09        | 3.20                          | 11.57                         | 253.50                      | .72                          |
| 1251.05                     | .90                  | 357.50                    | 1250.80                   | -473.58                 | -3.13         | -11.08        | 3.04                          | 11.51                         | 254.22                      | 1.03                         |
| 1261.27                     | .30                  | 241.10                    | 1261.02                   | -483.80                 | -3.06         | -11.10        | 2.98                          | 11.52                         | 254.58                      | 3.13                         |
| 1270.88                     | 3.10                 | 184.80                    | 1270.62                   | -493.40                 | -3.33         | -11.15        | 3.25                          | 11.64                         | 253.35                      | 9.19                         |
| 1280.49                     | 8.10                 | 174.60                    | 1280.18                   | -502.96                 | -4.27         | -11.11        | 4.18                          | 11.90                         | 248.98                      | 15.85                        |
| 1308.50                     | 22.50                | 169.10                    | 1307.13                   | -529.91                 | -11.53        | -9.90         | 11.46                         | 15.20                         | 220.64                      | 15.48                        |
| 1318.11                     | 26.40                | 169.20                    | 1315.88                   | -538.66                 | -15.44        | -9.15         | 15.37                         | 17.95                         | 210.66                      | 12.18                        |
| 1326.35                     | 27.90                | 169.90                    | 1323.21                   | -545.99                 | -19.14        | -8.47         | 19.07                         | 20.93                         | 203.88                      | 5.58                         |
| 1335.37                     | 29.00                | 167.80                    | 1331.14                   | -553.92                 | -23.35        | -7.64         | 23.29                         | 24.57                         | 198.11                      | 4.94                         |
| 1344.56                     | 31.80                | 165.90                    | 1339.06                   | -561.85                 | -27.88        | -6.58         | 27.83                         | 28.64                         | 193.28                      | 9.66                         |
| 1354.16                     | 35.50                | 165.20                    | 1347.06                   | -569.84                 | -33.03        | -5.25         | 32.99                         | 33.44                         | 189.03                      | 11.63                        |
| 1364.77                     | 39.30                | 165.70                    | 1355.48                   | -578.26                 | -39.27        | -3.63         | 39.24                         | 39.43                         | 185.28                      | 10.78                        |
| 1373.38                     | 43.20                | 165.30                    | 1361.95                   | -584.73                 | -44.76        | -2.21         | 44.74                         | 44.82                         | 182.83                      | 13.62                        |
| 1382.48                     | 46.50                | 166.70                    | 1368.41                   | -591.19                 | -50.99        | -.66          | 50.98                         | 50.99                         | 180.74                      | 11.36                        |
| 1392.09                     | 50.00                | 167.90                    | 1374.80                   | -597.58                 | -57.98        | .91           | 57.99                         | 57.99                         | 179.10                      | 11.28                        |
| 1401.71                     | 52.90                | 168.90                    | 1380.80                   | -603.58                 | -65.35        | 2.43          | 65.37                         | 65.39                         | 177.87                      | 9.37                         |
| 1411.33                     | 55.30                | 171.60                    | 1386.44                   | -609.22                 | -73.03        | 3.74          | 73.06                         | 73.12                         | 177.07                      | 10.13                        |
| 1420.94                     | 58.30                | 172.80                    | 1391.70                   | -614.48                 | -80.99        | 4.83          | 81.03                         | 81.14                         | 176.59                      | 9.88                         |
| 1430.55                     | 60.90                | 173.80                    | 1396.56                   | -619.34                 | -89.23        | 5.80          | 89.27                         | 89.41                         | 176.28                      | 8.55                         |
| 1439.72                     | 63.90                | 175.70                    | 1400.81                   | -623.59                 | -97.32        | 6.54          | 97.37                         | 97.54                         | 176.16                      | 11.25                        |
| 1449.11                     | 67.10                | 175.70                    | 1404.71                   | -627.49                 | -105.84       | 7.18          | 105.89                        | 106.08                        | 176.12                      | 10.22                        |
| 1458.27                     | 70.20                | 175.60                    | 1408.04                   | -630.82                 | -114.34       | 7.83          | 114.40                        | 114.61                        | 176.08                      | 10.16                        |
| 1467.89                     | 73.10                | 175.50                    | 1411.07                   | -633.85                 | -123.44       | 8.54          | 123.51                        | 123.74                        | 176.04                      | 9.05                         |
| 1477.50                     | 75.30                | 176.60                    | 1413.68                   | -636.46                 | -132.67       | 9.17          | 132.74                        | 132.99                        | 176.05                      | 7.62                         |
| 1486.90                     | 77.50                | 178.80                    | 1415.89                   | -638.67                 | -141.80       | 9.54          | 141.87                        | 142.12                        | 176.15                      | 9.79                         |
| 1496.52                     | 78.00                | 179.90                    | 1417.94                   | -640.72                 | -151.20       | 9.64          | 151.27                        | 151.50                        | 176.35                      | 3.70                         |
| 1506.12                     | 80.20                | 180.70                    | 1419.75                   | -642.53                 | -160.62       | 9.59          | 160.69                        | 160.91                        | 176.58                      | 7.30                         |
| 1519.00                     | 84.80                | 181.20                    | 1421.43                   | -644.21                 | -173.39       | 9.38          | 173.46                        | 173.64                        | 176.90                      | 10.78                        |
| 1543.85                     | 87.90                | 182.00                    | 1423.01                   | -645.79                 | -198.17       | 8.69          | 198.24                        | 198.36                        | 177.49                      | 3.86                         |
| 1553.49                     | 87.70                | 182.20                    | 1423.38                   | -646.16                 | -207.80       | 8.34          | 207.86                        | 207.97                        | 177.70                      | .88                          |
| 1562.66                     | 89.70                | 181.40                    | 1423.59                   | -646.37                 | -216.96       | 8.05          | 217.02                        | 217.11                        | 177.88                      | 7.05                         |

|         |       |        |         |         |         |      |        |        |        |      |
|---------|-------|--------|---------|---------|---------|------|--------|--------|--------|------|
| 1572.22 | 91.60 | 181.20 | 1423.48 | -646.26 | -226.52 | 7.83 | 226.58 | 226.66 | 178.02 | 5.99 |
| 1581.39 | 92.30 | 180.50 | 1423.17 | -645.95 | -235.68 | 7.70 | 235.74 | 235.81 | 178.13 | 3.24 |
| 1591.02 | 92.30 | 180.40 | 1422.78 | -645.57 | -245.31 | 7.62 | 245.36 | 245.42 | 178.22 | .31  |
| 1600.66 | 90.50 | 180.60 | 1422.55 | -645.33 | -254.94 | 7.54 | 254.99 | 255.05 | 178.31 | 5.64 |
| 1609.80 | 90.50 | 180.70 | 1422.47 | -645.25 | -264.08 | 7.43 | 264.13 | 264.19 | 178.39 | .33  |
| 1619.43 | 90.50 | 180.70 | 1422.39 | -645.17 | -273.71 | 7.32 | 273.76 | 273.81 | 178.47 | .00  |
| 1629.13 | 89.80 | 181.50 | 1422.36 | -645.14 | -283.41 | 7.13 | 283.45 | 283.50 | 178.56 | 3.29 |
| 1638.51 | 89.10 | 181.00 | 1422.45 | -645.23 | -292.78 | 6.92 | 292.83 | 292.87 | 178.65 | 2.75 |
| 1648.13 | 89.00 | 181.40 | 1422.61 | -645.39 | -302.40 | 6.72 | 302.44 | 302.48 | 178.73 | 1.29 |
| 1657.74 | 88.40 | 181.40 | 1422.83 | -645.61 | -312.01 | 6.49 | 312.05 | 312.07 | 178.81 | 1.87 |
| 1667.34 | 88.80 | 180.00 | 1423.06 | -645.84 | -321.60 | 6.37 | 321.64 | 321.67 | 178.87 | 4.55 |
| 1676.69 | 88.40 | 180.60 | 1423.29 | -646.07 | -330.95 | 6.32 | 330.99 | 331.01 | 178.91 | 2.31 |
| 1686.30 | 89.20 | 180.00 | 1423.49 | -646.27 | -340.56 | 6.27 | 340.60 | 340.61 | 178.94 | 3.12 |
| 1695.95 | 88.80 | 179.90 | 1423.66 | -646.44 | -350.21 | 6.28 | 350.24 | 350.26 | 178.97 | 1.28 |
| 1705.54 | 89.80 | 179.90 | 1423.78 | -646.56 | -359.79 | 6.30 | 359.83 | 359.85 | 179.00 | 3.13 |
| 1715.15 | 89.00 | 179.50 | 1423.88 | -646.66 | -369.40 | 6.35 | 369.44 | 369.46 | 179.02 | 2.79 |
| 1724.79 | 91.00 | 179.20 | 1423.88 | -646.66 | -379.04 | 6.46 | 379.08 | 379.10 | 179.02 | 6.29 |
| 1734.41 | 93.00 | 179.30 | 1423.54 | -646.32 | -388.66 | 6.58 | 388.69 | 388.71 | 179.03 | 6.24 |
| 1744.02 | 93.80 | 178.70 | 1422.97 | -645.75 | -398.25 | 6.75 | 398.29 | 398.30 | 179.03 | 3.12 |
| 1753.64 | 92.90 | 179.30 | 1422.41 | -645.19 | -407.85 | 6.92 | 407.89 | 407.91 | 179.03 | 3.37 |
| 1763.29 | 92.00 | 179.90 | 1422.00 | -644.78 | -417.49 | 6.98 | 417.53 | 417.55 | 179.04 | 3.36 |
| 1772.91 | 91.60 | 179.80 | 1421.70 | -644.48 | -427.10 | 7.01 | 427.15 | 427.16 | 179.06 | 1.29 |
| 1782.52 | 91.90 | 179.40 | 1421.40 | -644.18 | -436.71 | 7.08 | 436.75 | 436.77 | 179.07 | 1.56 |
| 1792.12 | 91.90 | 180.00 | 1421.08 | -643.86 | -446.30 | 7.13 | 446.35 | 446.36 | 179.09 | 1.87 |
| 1801.74 | 90.90 | 179.60 | 1420.85 | -643.63 | -455.92 | 7.16 | 455.96 | 455.98 | 179.10 | 3.36 |
| 1811.39 | 90.20 | 179.90 | 1420.76 | -643.54 | -465.57 | 7.20 | 465.61 | 465.63 | 179.11 | 2.37 |
| 1820.67 | 89.80 | 180.90 | 1420.76 | -643.54 | -474.85 | 7.14 | 474.89 | 474.90 | 179.14 | 3.48 |
| 1830.31 | 90.20 | 180.90 | 1420.76 | -643.54 | -484.49 | 6.99 | 484.53 | 484.54 | 179.17 | 1.24 |
| 1839.94 | 91.60 | 181.30 | 1420.61 | -643.39 | -494.12 | 6.80 | 494.15 | 494.16 | 179.21 | 4.54 |
| 1849.11 | 91.30 | 180.70 | 1420.37 | -643.15 | -503.28 | 6.64 | 503.32 | 503.33 | 179.24 | 2.19 |
| 1858.74 | 89.90 | 181.10 | 1420.27 | -643.05 | -512.91 | 6.49 | 512.94 | 512.95 | 179.27 | 4.54 |
| 1868.15 | 89.20 | 181.10 | 1420.35 | -643.13 | -522.32 | 6.31 | 522.35 | 522.36 | 179.31 | 2.23 |
| 1877.78 | 89.10 | 180.00 | 1420.49 | -643.27 | -531.95 | 6.22 | 531.98 | 531.98 | 179.33 | 3.44 |
| 1887.42 | 88.40 | 180.60 | 1420.70 | -643.48 | -541.58 | 6.17 | 541.62 | 541.62 | 179.35 | 2.87 |
| 1897.02 | 88.30 | 180.90 | 1420.98 | -643.76 | -551.18 | 6.04 | 551.21 | 551.21 | 179.37 | .99  |
| 1906.68 | 88.30 | 180.90 | 1421.26 | -644.04 | -560.83 | 5.89 | 560.86 | 560.86 | 179.40 | .00  |
| 1915.87 | 88.80 | 180.30 | 1421.49 | -644.27 | -570.02 | 5.79 | 570.05 | 570.05 | 179.42 | 2.55 |
| 1925.50 | 89.40 | 179.40 | 1421.65 | -644.43 | -579.65 | 5.82 | 579.68 | 579.68 | 179.42 | 3.37 |
| 1935.14 | 88.70 | 179.10 | 1421.81 | -644.59 | -589.29 | 5.95 | 589.31 | 589.32 | 179.42 | 2.37 |
| 1944.77 | 88.30 | 179.10 | 1422.06 | -644.84 | -598.91 | 6.10 | 598.94 | 598.94 | 179.42 | 1.25 |
| 1954.40 | 88.90 | 178.90 | 1422.29 | -645.07 | -608.54 | 6.26 | 608.57 | 608.57 | 179.41 | 1.97 |
| 1964.03 | 88.90 | 179.00 | 1422.48 | -645.26 | -618.16 | 6.44 | 618.20 | 618.20 | 179.40 | .31  |
| 1973.50 | 89.90 | 178.50 | 1422.58 | -645.36 | -627.63 | 6.65 | 627.66 | 627.67 | 179.39 | 3.54 |
| 1982.91 | 90.60 | 178.20 | 1422.54 | -645.32 | -637.04 | 6.92 | 637.07 | 637.07 | 179.38 | 2.43 |
| 1992.27 | 90.40 | 178.40 | 1422.45 | -645.23 | -646.39 | 7.20 | 646.43 | 646.43 | 179.36 | .91  |
| 2001.45 | 89.90 | 177.70 | 1422.43 | -645.21 | -655.57 | 7.51 | 655.61 | 655.61 | 179.34 | 2.81 |
| 2011.07 | 89.70 | 177.70 | 1422.46 | -645.24 | -665.18 | 7.89 | 665.22 | 665.23 | 179.32 | .62  |
| 2020.29 | 90.70 | 177.90 | 1422.43 | -645.21 | -674.39 | 8.25 | 674.44 | 674.44 | 179.30 | 3.32 |
| 2029.52 | 90.30 | 177.10 | 1422.35 | -645.13 | -683.61 | 8.65 | 683.66 | 683.67 | 179.27 | 2.91 |
| 2039.12 | 90.20 | 177.60 | 1422.31 | -645.09 | -693.20 | 9.09 | 693.25 | 693.26 | 179.25 | 1.59 |

|         |       |        |         |         |          |       |         |         |        |      |
|---------|-------|--------|---------|---------|----------|-------|---------|---------|--------|------|
| 2048.74 | 89.40 | 176.50 | 1422.34 | -645.12 | -702.81  | 9.59  | 702.86  | 702.87  | 179.22 | 4.24 |
| 2057.97 | 89.20 | 177.00 | 1422.46 | -645.24 | -712.02  | 10.11 | 712.08  | 712.10  | 179.19 | 1.75 |
| 2067.55 | 89.60 | 176.90 | 1422.56 | -645.34 | -721.59  | 10.62 | 721.65  | 721.67  | 179.16 | 1.29 |
| 2076.91 | 89.30 | 176.90 | 1422.65 | -645.43 | -730.94  | 11.13 | 731.00  | 731.02  | 179.13 | .96  |
| 2086.54 | 90.00 | 176.90 | 1422.70 | -645.48 | -740.55  | 11.65 | 740.62  | 740.64  | 179.10 | 2.18 |
| 2096.17 | 90.60 | 177.50 | 1422.65 | -645.43 | -750.17  | 12.12 | 750.24  | 750.27  | 179.07 | 2.64 |
| 2105.79 | 90.60 | 178.20 | 1422.55 | -645.33 | -759.78  | 12.48 | 759.86  | 759.88  | 179.06 | 2.18 |
| 2115.40 | 90.70 | 177.90 | 1422.44 | -645.22 | -769.39  | 12.81 | 769.46  | 769.49  | 179.05 | .99  |
| 2125.05 | 91.10 | 178.10 | 1422.29 | -645.07 | -779.03  | 13.14 | 779.11  | 779.14  | 179.03 | 1.39 |
| 2134.41 | 91.40 | 178.70 | 1422.09 | -644.87 | -788.38  | 13.41 | 788.46  | 788.50  | 179.03 | 2.15 |
| 2144.02 | 91.70 | 178.60 | 1421.83 | -644.61 | -797.99  | 13.63 | 798.07  | 798.10  | 179.02 | .99  |
| 2153.21 | 92.00 | 178.80 | 1421.53 | -644.31 | -807.17  | 13.84 | 807.25  | 807.29  | 179.02 | 1.18 |
| 2162.85 | 92.30 | 178.10 | 1421.17 | -643.95 | -816.80  | 14.10 | 816.88  | 816.92  | 179.01 | 2.37 |
| 2172.48 | 92.30 | 177.70 | 1420.78 | -643.56 | -826.41  | 14.45 | 826.50  | 826.54  | 179.00 | 1.25 |
| 2182.11 | 92.70 | 178.80 | 1420.36 | -643.14 | -836.03  | 14.75 | 836.12  | 836.16  | 178.99 | 3.64 |
| 2191.53 | 92.60 | 178.40 | 1419.93 | -642.71 | -845.44  | 14.98 | 845.53  | 845.57  | 178.99 | 1.31 |
| 2201.12 | 92.30 | 179.10 | 1419.52 | -642.30 | -855.02  | 15.19 | 855.11  | 855.15  | 178.98 | 2.38 |
| 2210.74 | 91.70 | 179.70 | 1419.18 | -641.96 | -864.63  | 15.29 | 864.72  | 864.77  | 178.99 | 2.65 |
| 2220.37 | 90.30 | 179.50 | 1419.01 | -641.79 | -874.26  | 15.35 | 874.35  | 874.39  | 178.99 | 4.41 |
| 2229.98 | 90.40 | 180.40 | 1418.96 | -641.74 | -883.87  | 15.36 | 883.96  | 884.00  | 179.00 | 2.83 |
| 2239.60 | 90.10 | 179.90 | 1418.91 | -641.69 | -893.49  | 15.34 | 893.58  | 893.62  | 179.02 | 1.82 |
| 2249.26 | 89.50 | 180.90 | 1418.95 | -641.73 | -903.15  | 15.27 | 903.24  | 903.28  | 179.03 | 3.62 |
| 2258.88 | 89.00 | 182.10 | 1419.07 | -641.85 | -912.76  | 15.02 | 912.85  | 912.89  | 179.06 | 4.05 |
| 2268.51 | 89.50 | 182.20 | 1419.20 | -641.98 | -922.39  | 14.66 | 922.47  | 922.50  | 179.09 | 1.59 |
| 2278.19 | 89.90 | 182.10 | 1419.25 | -642.03 | -932.06  | 14.29 | 932.14  | 932.17  | 179.12 | 1.28 |
| 2287.56 | 88.80 | 182.10 | 1419.36 | -642.14 | -941.42  | 13.95 | 941.50  | 941.53  | 179.15 | 3.52 |
| 2297.19 | 87.80 | 182.90 | 1419.64 | -642.42 | -951.04  | 13.53 | 951.12  | 951.13  | 179.18 | 3.99 |
| 2306.79 | 88.10 | 182.90 | 1419.99 | -642.77 | -960.62  | 13.05 | 960.69  | 960.71  | 179.22 | .94  |
| 2316.43 | 88.80 | 183.50 | 1420.25 | -643.03 | -970.24  | 12.51 | 970.31  | 970.32  | 179.26 | 2.87 |
| 2325.56 | 89.20 | 183.60 | 1420.41 | -643.19 | -979.35  | 11.94 | 979.42  | 979.43  | 179.30 | 1.35 |
| 2335.04 | 88.00 | 183.90 | 1420.64 | -643.42 | -988.81  | 11.32 | 988.87  | 988.87  | 179.34 | 3.91 |
| 2344.64 | 87.30 | 183.50 | 1421.03 | -643.81 | -998.38  | 10.70 | 998.43  | 998.44  | 179.39 | 2.52 |
| 2354.26 | 87.30 | 183.30 | 1421.48 | -644.26 | -1007.97 | 10.13 | 1008.02 | 1008.02 | 179.42 | .62  |
| 2363.95 | 87.80 | 183.20 | 1421.90 | -644.68 | -1017.64 | 9.58  | 1017.68 | 1017.68 | 179.46 | 1.58 |
| 2373.55 | 88.00 | 182.50 | 1422.25 | -645.03 | -1027.22 | 9.11  | 1027.26 | 1027.26 | 179.49 | 2.27 |
| 2382.95 | 88.80 | 182.10 | 1422.51 | -645.29 | -1036.61 | 8.73  | 1036.65 | 1036.65 | 179.52 | 2.85 |
| 2392.56 | 88.50 | 182.40 | 1422.74 | -645.52 | -1046.21 | 8.35  | 1046.24 | 1046.24 | 179.54 | 1.32 |
| 2402.14 | 89.30 | 181.80 | 1422.92 | -645.70 | -1055.78 | 8.00  | 1055.81 | 1055.81 | 179.57 | 3.13 |
| 2411.84 | 89.20 | 181.70 | 1423.05 | -645.83 | -1065.48 | 7.71  | 1065.50 | 1065.50 | 179.59 | .44  |
| 2421.00 | 90.70 | 181.40 | 1423.06 | -645.84 | -1074.63 | 7.46  | 1074.66 | 1074.66 | 179.60 | 5.01 |
| 2430.38 | 90.80 | 181.40 | 1422.94 | -645.72 | -1084.01 | 7.23  | 1084.03 | 1084.03 | 179.62 | .32  |
| 2439.97 | 90.50 | 180.90 | 1422.83 | -645.61 | -1093.60 | 7.04  | 1093.62 | 1093.62 | 179.63 | 1.82 |
| 2449.59 | 90.80 | 180.80 | 1422.72 | -645.50 | -1103.21 | 6.89  | 1103.23 | 1103.24 | 179.64 | .99  |
| 2458.89 | 91.30 | 180.40 | 1422.55 | -645.33 | -1112.51 | 6.80  | 1112.53 | 1112.53 | 179.65 | 2.07 |
| 2468.55 | 91.90 | 180.40 | 1422.28 | -645.06 | -1122.17 | 6.73  | 1122.19 | 1122.19 | 179.66 | 1.86 |
| 2478.15 | 91.00 | 180.50 | 1422.03 | -644.81 | -1131.76 | 6.65  | 1131.78 | 1131.78 | 179.66 | 2.83 |
| 2487.23 | 91.00 | 180.20 | 1421.88 | -644.66 | -1140.84 | 6.60  | 1140.86 | 1140.86 | 179.67 | .99  |
| 2496.85 | 90.60 | 180.60 | 1421.74 | -644.52 | -1150.46 | 6.53  | 1150.48 | 1150.48 | 179.67 | 1.76 |
| 2506.46 | 90.80 | 180.60 | 1421.62 | -644.40 | -1160.07 | 6.43  | 1160.08 | 1160.09 | 179.68 | .62  |

|                  |       |        |         |         |          |      |         |         |        |      |
|------------------|-------|--------|---------|---------|----------|------|---------|---------|--------|------|
| 2516.09          | 90.90 | 180.20 | 1421.48 | -644.26 | -1169.70 | 6.36 | 1169.71 | 1169.72 | 179.69 | 1.28 |
| 2519.00          | 91.00 | 180.50 | 1421.43 | -644.21 | -1172.61 | 6.35 | 1172.62 | 1172.63 | 179.69 | 3.26 |
| PROJECTION TO TD |       |        |         |         |          |      |         |         |        |      |
| 2534.00          | 91.00 | 180.50 | 1421.17 | -643.95 | -1187.61 | 6.22 | 1187.62 | 1187.62 | 179.70 | .00  |

## DAILY DRILLING OPERATIONS SUMMARY Para et al Cameron 2H-03

### DAILY DRILLING SUMMARY

| Date      | Depth m. |      | Progress | Daily Operations Summary  |
|-----------|----------|------|----------|---|
|           | From     | To   |          |   |
| 21-Jan-11 | 27       | 223  | 196      | Left Calgary. Arrived in High Level. Stayed in High Level.  |
| 22-Jan-11 | 223      | 361  | 138      | Left High Level Arrived on location. Rig drilled from 223m to surface TD of 361. Wiper trip. Worked tight spots. Start POOH.  |
| 23-Jan-11 | 361      | 361  | 0        | Ran surface casing. Worked tight spots. Cement casing. W.O.C. Welding work etc.   |
| 24-Jan-11 | 361      | 361  | 0        | Nipple up BOPS. Changed pipe rams. Performed pressure tests. Hook up Kelly hose etc. Pre Drill out safety rig inspection. Wait on bit sub. Slip & cut. Rig up Gas Detector.   |
| 25-Jan-11 | 361      | 531  | 170      | Wait on bit sub. Made up drill assembly. RIH. Tag cement @ 343.6m. Drilled out cement, float and shoe. Drilled 222mm intermediate hole from 361 to 531m.  |
| 26-Jan-11 | 531      | 784  | 253      | Drilled 222mm intermediate hole from 531-784m.  |
| 27-Jan-11 | 784      | 983  | 199      | Drilled 222mm intermediate hole from 784-860m. Wiper trip to 350m. Drilled from 860 to 983m.  |
| 28-Jan-11 | 983      | 1107 | 124      | Drilled 222mm intermediate hole from 983-1000m. Jacked sub with rig Jackers. Drilled from 1000 to 1022m. Jacked sub To level the rig. Drilled from 1022 to 1107m.   |
| 29-Jan-11 | 1107     | 1121 | 14       | Drilled 222mm intermediate hole 1107 to 1114m. Circulated. POOH. Made tri cone bit. RIH. Circulated hole clean. Prepared to skid the rig. Skid & relevelled the rig. Rig up front end of rig. Pressure tested HCR line. Drilled 222mm from 1114 to 1121m. |
| 30-Jan-11 | 1121     | 1222 | 101      | Drilled 222mm intermediate hole from to 1121-1136m. Worked tight spot. Drilled 1136-1145. Worked tight spots. Drilled 1145-1154. Worked tight spots. Drilled 1154-1222m.  |



|           |      |      |    |   |
|-----------|------|------|----|---|
| 31-Jan-11 | 1222 | 1240 | 18 | Drilled 222mm intermediate hole from 1222-1240m. Circulate. POOH. Pick up directional tools. RIH with directional tools to 950m while surveying and reaming tight spots.  |
| 01-Feb-11 | 1240 | 1280 | 40 | RIH with directional tools from 950-1240m while surveying and reaming tight spots. Drilled 222mm intermediate hole from 1240 to 1280m. Changed breaker in light plant. Pason crashed. Wait on hot shot to bring pason main computer.              |
| 02-Feb-11 | 1280 | 1333 | 53 | Replaced pason's main computer. Drilled 222mm intermediate hole from 1280 to 1333m. Rig started sinking again. Suspended drilling. Started moving associated equipment, tanks etc and prepared to put additional mating. The operation continued. |
| 03-Feb-11 | 1333 | 1333 | 0  | Completed Jacking/skidding of the rig. Spotted back dog house, mud tanks, cat walk etc. Install flow line. Conditioned mud and circulated. Started POOH to lay down drill pipes. Rig out Gas detector.  |
| 04-Feb-11 | 1333 | 1333 | 0  | Complete POOH. Ran and pressure tested bridge plugs. Start tearing down rig to move to E-52. Drilling of 2H-03 to be resumed after rebuilding of the lease.   |
| 16-Feb-11 | 1333 | 1333 | 0  | Left Calgary & arrived on location. The rig moved back to location from E-52. Wait on Day light.  |
| 17-Feb-11 | 1333 | 1333 | 0  | Wait on Day light. Spot mats and the rig. Moved shacks and rentals to location. Rig up steam, air and power. Rig in mud tanks and mud pumps. Raised lower section of derrick.   |
| 18-Feb-11 | 1333 | 1333 | 0  | Worked on draw works. Warm up & Nipple up BOPS and various lines. Raised top section of derrick. Displaced diesel fuel from the well. Pressure tested manifold. Started pressure testing BOPS. Rig up and tested gas detector.                    |
| 19-Feb-11 | 1333 | 1333 | 0  | Completed pressure testing. Pick up retrieving assembly and heavy weight. RIH. Retrieved both bridge plugs one by one. Slip and cut drill line. Made up directional tools. Made up lower Kelly cock. RIH to 446m. Reamed from 363 to 446m.        |
| 20-Feb-11 | 1333 | 1333 | 0  | RIH with directional tools from MD 446 to 1327m while reaming and cleaning the hole.  |
| 21-Feb-11 | 1333 | 1416 | 83 | RIH from 1327 to 1333m. Drilled 222mm intermediate hole from 1333 to 1416m.   |

|           |      |      |    |  |
|-----------|------|------|----|--|
| 22-Feb-11 | 1416 | 1424 | 8  | Drilled 222mm intermediate hole from 1416 to 1424m. POOH for bit. Part of the mud motor assembly and the bit fell in the well while coming out. RIH for clean out trip. Fish top @ 1416.84m. Started POOH to pick up fishing tools. POOH to 711m.                      |
| 23-Feb-11 | 1424 | 1424 | 0  | POOH from 711m to surface. Make up fishing tools. Run in the hole to 1416m. Latch on to the fish. POOH. No fish. Wait on orders and rig repair. Made up milling tool for dressing up of top of the fish. RIH to 376m.  |
| 24-Feb-11 | 1424 | 1424 | 0  | RIH to 1376 to 1416mm. Dressed up top of the fish with mill. Circulated. POOH. Made up over shot and grapple. RIH to fish part of the mud motor string and bit. Made attempts to latch on to fish but unable to get on to it. Started POOH to change fishing assembly. |
| 25-Feb-11 | 1424 | 1424 | 0  | POOH from 1360 to surface to change fishing tools. Wait on different fishing tools. Made up different fishing assembly and started running in the hole. Reamed and washed from 1351 to 1398m.  |
| 26-Feb-11 | 1424 | 1424 | 0  | Reamed and washed from 1398 to 1417m. Rotated washed over fish. Tried to latch on to fish. POOH. No fish. Slip & cut. RIH to to 1296m to try catching the fish again..   |
| 27-Feb-11 | 1424 | 1424 | 0  | RIH to 1296 to 2418m. Attempted to catch the fish. Fish could not be caught. POOH. RIH open ended to run cement plugs. Wait on cementers. Ran cement plugs. POOH.  |
| 28-Feb-11 | 1424 | 1333 | 0  | Made up directional tools. RIH. Reamed/washed from 847 to 1290m. Drilled cement from 1290 to 1303m. Worked on Pason.   |
| 01-Mar-11 | 1333 | 1338 | 5  | Drilled cement from 1303 to 1331m. Replaced aerated mud with fresh mud. Mixed defoamer. Drilled to 1333m. Well side tracked from 1333m. Control drilled from 1333 to 1338m. Examined samples every 0.5m for any cement content during controlled drilling.             |
| 02-Mar-11 | 1338 | 1413 | 75 | Drilled 222mm intermediate hole from 1338-1413m. Examined 0.5m and 2.5m samples for any cement content from 1338 to 1350m.   |
| 03-Mar-11 | 1413 | 1503 | 90 | Drilled 222mm intermediate build section hole from 1413-1503m.   |
| 04-Mar-11 | 1503 | 1534 | 31 | Drilled 222mm intermediate build section hole from 1503 to landing point of 1534m. Circulated. Wiper trip to surface. Laid down directional tools.   |

|           |      |      |     |  |
|-----------|------|------|-----|--|
| 05-Mar-11 | 1534 | 1534 | 0   | Install and then remove rubber spacer from flow-T. RIH. Laid down 8 singles. Ream and clean from 1330 to 1534m. Condition mud and circulate. POOH to 1410. Worked the string free. POOH to 1328m. Reamed and washed to 1403m. Mixed one sack of gel every 2 minutes. |
| 06-Mar-11 | 1534 | 1534 | 0   | Reamed and washed to 1534m. Mixed one sack of gel every 2 minutes. Circulate bottoms up. POOH. Ran intermediate casing from 0.0 to 1378m. Washed casing from 1378 to 1420m. Second Geologist arrived on location.  |
| 07-Mar-11 | 1534 | 1534 | 0   | Washed casing from 1420 to bottom. Ran , circulated and cemented intermediate casing. W.O.C. Welding work. Start pressure testing. Wait casing slips seal assembly. Cleaned mud tanks. Start nipple up BOPS.   |
| 08-Mar-11 | 1534 | 1545 | 11  | Completed nipping up of BOPS. Performed pressure test. Made up directional tools. RIH. Drilled out intermediate casing cement. Drilled 156mm horizontal hole from 1534 to 1545m.   |
| 09-Mar-11 | 1545 | 1767 | 222 | Drilled 156mm horizontal hole from 1545-1767m.   |
| 10-Mar-11 | 1767 | 1922 | 155 | Drilled 156mm horizontal hole from 1767-1922m.   |
| 11-Mar-11 | 1922 | 2082 | 160 | Drilled 156mm horizontal hole from 1922-2082m. Circulated bottoms up. Start POOH for bit and pipe swap trip. POOH from 2082 to 1794m.  |
| 12-Mar-11 | 2082 | 2088 | 6   | POOH from 1794m to surface. Laid down directional tools. Made up directional tools and bit # 7. RIH to 1236m. RIH to bottom while reaming and washing numerous tight spots. Drilled 156mm horizontal hole 2083 to 2088m.   |
| 13-Mar-11 | 2088 | 2209 | 121 | Drilled 156mm horizontal hole from 2088 to 2209m.  |
| 14-Mar-11 | 2209 | 2333 | 124 | Drilled 156mm horizontal hole from 2209 to 2333m.  |
| 15-Mar-11 | 2333 | 2526 | 193 | Drilled 156mm horizontal hole from 2333 to 2526m.  |
| 16-Mar-11 | 2526 | 2534 | 8   | Drilled 156mm horizontal hole from 2526-2534m. TD. POOH. Laid down directional tools. Made up reaming tools. Start RIH. Ream and clean to 1635m. Drift each single as it is picked from the catwalk. Second Geologist Left wellsite for Calgary.                     |
| 17-Mar-11 | 2534 | 2534 | 0   | Ream and clean 1635 to 2228m. Drift each single as it is picked from the catwalk.  |
| 18-Mar-11 | 2534 | 2537 | 0   | Ream and clean 2228 to 2537m. Drilled to 2537 while reaming. Pumped down logging tools. Started logging while tripping. POOH to 1150m.   |
| 19-Mar-11 | 2537 | 2537 | 0   | Trip out of the hole 1150 to 943m. Recovered logging tools stuck in the drill pipe. RIH to bottom. Pick up logging tools. Pumped down logging tools. Rig up surface logging equipment and check shot. Logged while   |

|           |      |      |   |   |
|-----------|------|------|---|---|
|           |      |      |   | tripping from 2535m to surface. Laid down logging tools and radioactive source. Started rig up to run liner.  |
| 20-Mar-11 | 2537 | 2537 | 0 | Rig up to run liner. Made up packer BHA. Ran liner with packer assembly from surface to 980m. Ran casing from 980 to 2528m. Pump 11m3 water in the hole. Set open hole packers and bleed off drill pipe. Pull out of the liner, circulate and displace annulus with water. POOH and laid down pipe to 435m. Rig out gas detector. |
| 21-Mar-11 | 2537 | 2537 | 0 | POOH and laid down pipe from 435m to 0m. Laid down tubing hanger. Nipple down BOPS. Tear down rig. Moved Rig and trailers to E-52.  |

**PARA ET AL CAMERON 2H-03**  
**Unit 2H Section 03**  
**Grid 60° 10' 117° 30'**

**SAMPLE RECORD**

KB: 777.22m

**HAY RIVER FORMATION**

1195-1200 SHALE 90% dark grey, black, micromicaceous, part calcareous, part marly, medium hard, fissile-subfissile, part splintery. LIMESTONE 10% grey, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows.

1200-1205 SHALE 95% dark grey, black, micromicaceous, part calcareous, part marly, medium hard, part carbonaceous, fissile-subfissile. LIMESTONE 05% grey, light brown, micritic-very fine grained, mudstone, argillaceous, dense, trace pyrite, estimated 3% earthy porosity, no visible shows.

1205-1210 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, fissile-subfissile. LIMESTONE MINOR grey, light brown, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows.

1210-1215 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile. LIMESTONE MINOR grey, light brown, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows.

1215-1220 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile. Minor LIMESTONE as above.

1220-1225 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, some pyrite nodules, fissile-subfissile. LIMESTONE MINOR grey, light brown, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows.

1225-1230 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, some pyrite nodules, fissile-subfissile. LIMESTONE MINOR grey, light brown, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows.

1230-1235 SHALE 100% dark grey, gray, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, trace pyrite nodules, fissile-subfissile, part splintery. Trace limestone.

1235-1240 SHALE 100% dark grey, gray, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile, part splintery.

TRIP TO PICK UP DIRECTIONAL TOOLS FROM 0315HRS ON JAN. 31 TO 0345HRS  
ON FEB. 01, 2011.

1240-1245 SHALE 100% dark grey, gray, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile, part splintery, Minor Limestone. Poor sample. Lot of cavings after the trip.

1245-1250 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile.

1250-1255 SHALE 100% grey, dark grey, black, micromicaceous, calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile, part blocky, part splintery, Trace Limestone.

1255-1260 SHALE 100% grey, dark grey, black, micromicaceous, calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile, part blocky.

1260-1265 SHALE 100% grey, dark grey, black, micromicaceous, calcareous, medium hard, part carbonaceous, pyritic, trace pyrite nodule, fissile-subfissile, part blocky.

START OF BUILD/ KICK OFF POINT 1266m MD

1265-1270 SHALE 100% grey, dark grey, black, micromicaceous, calcareous, hard to medium hard, part carbonaceous, pyritic, fissile-subfissile, part blocky, part splintery. Trace Limestone.

1270-1275 NO SAMPLE.

1275-1280 SHALE 70% grey, dark grey, black, micromicaceous, calcareous, hard to medium hard, part carbonaceous, pyritic, fissile-subfissile, part blocky. LIMESTONE 30% grey, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows. Some mud materials in the sample.

1280-1285 SHALE 100% grey, dark grey, black, micromicaceous, calcareous, hard to medium hard, part carbonaceous, pyritic, trace pyrite nodule, trace coal, fissile-subfissile. Trace Limestone.

1285-1295 SHALE 100% grey, dark grey, black, minor gray brown, micromicaceous, calcareous, hard to medium hard, part carbonaceous, pyritic, trace pyrite nodule, fissile-subfissile.

1295-1300 SHALE 100% grey, dark grey, black, minor gray brown, micromicaceous, calcareous, hard to medium hard, minor carbonaceous, pyritic, trace pyrite nodules, fissile-subfissile.

1300-1305 SHALE 100% grey, black, dark grey, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, trace pyrite nodules, fissile-subfissile. Trace Limestone.

1305-1310 SHALE 100% grey, dark grey, black, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, trace pyrite nodules, fissile-subfissile.

1310-1315 SHALE 100% grey, dark grey, black, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, common pyrite nodules, fissile-subfissile. Trace Limestone.

1315-1320 SHALE 100% grey, dark grey, black, trace brown, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, common pyrite nodules, fissile-subfissile. TRACE LIMESTONE light grey, light brown, mudstone, micritic, microcrystalline- very fine crystalline, argillaceous, dense, tight, 0-3% earthy porosity, no shows.

1320-1325 SHALE 100% grey, dark grey, black, minor black brown, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, common pyrite nodules, fissile-subfissile, part blocky, part platy. TRACE-MINOR LIMESTONE light grey, mudstone, micritic, microcrystalline- very fine crystalline, argillaceous, dense, tight, estimated 3% earthy porosity, no shows.

TOP BEAVER HILL LK. MD 1325m TVD 1322m (-544.78m)

1325-1330 SHALE 95% dark grey, black, minor black brown, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, common pyrite nodules, fissile-subfissile, part blocky, part platy. LIMESTONE 5% light grey, mudstone, micritic, microcrystalline- very fine crystalline, argillaceous, pyritic, dense, tight, estimated 3% earthy porosity, no shows.

1330-1335 SHALE 90% dark grey, black, minor black brown, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, trace pyrite nodules, fissile-subfissile, part blocky, part splintery. LIMESTONE 10% light grey, light brown, mudstone, micritic, microcrystalline, rare chip fine crystalline, argillaceous, estimated 3% earthy porosity, no shows.

DRILLING SUSPENDED at 1533m MD ON FEB. 02, 2011 TO REBUILD THE LEASE.

## DRILLING RESUMED ON FEB. 21, 2011 @ 0100HRS

1335-1340 SHALE 100% dark grey, black, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, common pyrite nodules, fissile-subfissile. LIMESTONE MINOR TO 5% light grey, mudstone, micritic, microcrystalline, argillaceous, estimated 3% earthy porosity, no shows.

1340-1345 SHALE 95% grey, dark grey, black, hard to medium hard, micromicaceous, calcareous, minor carbonaceous, pyritic, some pyrite nodules, fissile-subfissile, part blocky. LIMESTONE 5% light grey, mudstone, micritic, microcrystalline, argillaceous, estimated 3% earthy porosity, no shows.

1345-1350 SHALE 90% grey, dark grey, black, hard to medium hard, micromicaceous, calcareous, part grading to marlstone, minor carbonaceous, pyritic, some pyrite nodules, fissile-subfissile, part blocky. LIMESTONE 10% light grey, trace brown, mudstone, micritic, microcrystalline, argillaceous, part pyritic, estimated 3% earthy porosity, no shows.

## TOP SLAVE POINT MD 1353m TVD 1346m (-568.78m)

1350-1355 SHALE 60% as above. LIMESTONE 30% brown, mudstone, micritic, microcrystalline, estimated 3% earthy porosity, no visible shows. LIMESTONE 10% light grey, white, mudstone, dense, pyritic.

1355-1360 LIMESTONE 100% brown, mudstone, micritic, dense, cryptocrystalline to trace very fine crystalline, pyritic, trace pyrite nodules, tight, 3% earthy porosity, yellow white fair streaming cut.

1360-1365 LIMESTONE 100% brown, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-very fine crystalline, pyritic, trace free crystal, tight, 0-3% earthy porosity, yellow white fair streaming cut. Faint petroliferous odour.

1365-1370 LIMESTONE 100% brown, mudstone-wakestone, cryptocrystalline- very fine crystalline, traces pyretic, rare free crystal, estimated 3% pin point porosity, yellow white fair-good streaming cut. Gives petroliferous odour.

1370-1375 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyritic, trace dolomitic, estimated 3% earthy and pin point porosity, yellow white fair-good streaming cut, gives petroliferous odour.

1375-1380 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyretic, trace dolomitic, trace free crystal, estimated 3-6% earthy and pin point porosity, yellow white good streaming cut, gives petroliferous odour.



1380-1385 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic and dolomitic, trace pyrite nodules, rare anhydrite, estimated 3-6% earthy and pin point porosity, yellow white good streaming cut, gives petriferous odour.

1385-1390 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, trace dolomitic, trace carbonaceous, rare Anhydrite, estimated 3% earthy and pin point porosity, yellow white good streaming cut. Trace Calcareous Dolomite.

1390-1395 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, some pyrite nodules, carbonaceous partings, estimated 3% earthy and pin point porosity, yellow white good streaming cut. Trace Dolomite, Trace Anhydrite.

1395-1400 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, some pyrite nodules, tight, estimated 3% earthy and pin point porosity, yellow white good streaming cut. Trace Dolomite.

1400-1405 LIMESTONE 100% as above.

DOLOMITE, CALCAREOUS MINOR brown, microcrystalline to very fine crystalline, calcareous, rare silty shale, estimated 3-9% intercrystalline and pin point porosity, yellow white good streaming cut. TRACE ANHYDRITE white, tan, hard, dense, calcareous.

TOP F-4 MD 1412m TVD 1387m (SS – 609.78m)

1405-1410 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyritic, estimated 3% earthy and pin point porosity, no visible to poor slow cut. Minor Dolomite, Trace Anhydrite.

1410-1415 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyritic, estimated 3% earthy and pin point porosity, good slow streaming cut. Trace Dolomite, Trace Anhydrite.

1415-1420 LIMESTONE 100% brown, mudstone-wakestone, lumpy, cryptocrystalline-minor very fine crystalline, traces pyretic, estimated 3% intergranular and pin point porosity, yellow white good slow streaming cut.

SHALE TRACE green, waxy-silky, medium hard-hard, micaceous, calcareous, pyretic, fissile-blocky.

1420-1424 LIMESTONE 100% brown, mudstone-wakestone, lumpy, cryptocrystalline-minor very fine crystalline, traces pyretic, estimated 3% intergranular and pin point porosity, yellow white fair slow streaming cut.

SHALE TRACE green, waxy-silky, medium hard-hard, micaceous, calcareous, pyretic, fissile-blocky. Minor Dolomite and Traces Anhydrite from above.

TOP WATT MTN. MD 1425.5m TVD 1394m (SS -616.78m)

1424-1430 LIMESTONE 60% brown, buff, mudstone-wakestone, trace grainstone, micritic, lumpy, dense, cryptocrystalline- very fine crystalline, pyritic, estimated 0-3% earthy and pin point porosity, no visible shows. SHALE 40% grey, dark grey caving. Trace Dolomite, Trace green Shale. Poor sample. Shale cavings.

TOP SULPHUR PT. LST. MD 1433m TVD 1397.5m (SS -620.28m)

1430-1435 LIMESTONE 70% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyrite nodules, estimated 3% earthy and pin point porosity, poor slow yellow white cut. SHALE 30% as above, caving, Trace green Shale.

1435-1440 LIMESTONE 70% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace dolomitic, trace pyrite nodules, estimated 3% earthy and pin point porosity, part fair slow yellow white cut. SHALE 30% as above, caving. Trace Green Shale.

1440-1445 LIMESTONE 80% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, Trace pyrite nodules, estimated 3% earthy and pin point porosity, fair slow yellow white cut. SHALE 20% grey. MINOR GREEN SHALE medium hard to hard, calcareous, pyritic. Poor samples, cavings from above.

1445-1450 LIMESTONE 80% brown, mudstone-wakestone, occasional grainstone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, occasional dolomitic, estimated 3% earthy and pin point porosity, fair slow yellow white cut. SHALE 20% grey, dark grey. Minor green shale. Poor samples, cavings from above.

1450-1455 LIMESTONE 80% brown, buff, mudstone-wakestone, occasional grainstone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, occasional dolomitic, trace pyritic, estimated 3-6% earthy and pin point porosity, yellow white streaming cut. TRACE Calc Dolomite. SHALE 20% grey, dark grey. Minor green shale. Poor samples, cavings from above.

1455-1460 LIMESTONE 70% brown, buff, mudstone-wakestone, occasional grainstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, occasional dolomitic, trace pyritic, estimated 3% earthy and pin point porosity, yellow white streaming cut. SHALE 30% grey and green as above cavings.

1460-1465 LIMESTONE 80% brown, buff, mudstone-wakestone, rare grainstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, trace dolomitic, trace

pyritie nodule, estimated 3% earthy and pin point porosity, yellow white streaming cut. SHALE 20% grey and green as above caving.

1465-1470 LIMESTONE 80% brown, buff, mudstone-wakestone, rare grainstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, traces dolomitic, estimated 3% earthy and pin point porosity, yellow white good streaming cut. SHALE 20% grey and green as above caving.

1470-1475 LIMESTONE 80% brown, buff, mudstone-wakestone, trace grainstone, micritic, lumpy, dense, cryptocrystalline-very fine crystalline, traces dolomitic, Trace Calcareous Dolomite, trace free crystals, estimated 3% pin point and intercrystalline porosity, yellow white good streaming cut. SHALE 20% grey and green as above caving.

1475-1480 LIMESTONE 80% brown, buff, mudstone-wakestone, trace grainstone, micritic, lumpy, dense, cryptocrystalline-very fine crystalline, trace dolomitic, Trace Calcareous Dolomite, estimated 3% pin point and intercrystalline porosity, yellow white good streaming cut. SHALE 20% grey and green as above caving.

1480-1485 LIMESTONE 75% as above. DOLOMITE, CALCAREOUS 05% brown, grainstone-wakestone, very fine-minor fine crystalline, calcareous, trace free crystals, estimated 3-6% fracture and intercrystalline porosity, scattered bright yellow fluorescence, yellow white fair to good streaming cut. SHALE 20% grey and green as above caving.

1485-1490 LIMESTONE 90% as above, minor grainstone and calcareous. DOLOMITE, CALCAREOUS 10% brown, grainstone-wakestone, very fine-minor fine crystalline, calcareous, trace free crystals, estimated 3-6% pin point and intercrystalline porosity, yellow white good streaming cut. Some shale caving.

1490-1495 DOLOMITE, CALCAREOUS 70% brown, grainstone-wakestone, very fine-minor fine crystalline, calcareous, trace free crystals, estimated 3-6% pin point and intercrystalline porosity, yellow white good streaming cut. LIMESTONE 30% as above, part grainstone and calcareous. Some shale caving.

1495-1500 DOLOMITE 80% brown, trace dark brown, grainstone-wakestone, very fine-minor fine crystalline, part calcareous, trace free crystals, estimated 3-6% pin point and intercrystalline porosity, yellow white good streaming cut. LIMESTONE 20% as above, part grainstone and calcareous. Some shale caving.

TOP SULP PT. DOLO MD 1483.5m TVD 1415m (SS-637.78m)

1500-1505 DOLOMITE 100% brown, dark brown, grainstone-wakestone, very fine-minor fine crystalline, traces calcareous, estimated 3-6% pin point and intercrystalline porosity, yellow white good streaming cut. Minor Limestone. Some shale caving.

1505-1510 DOLOMITE 100% brown; minor dark brown, grainstone, minor wakestone, very fine-minor fine crystalline, estimated 3-6% intercrystalline porosity, yellow white good streaming cut.

1510-1515 DOLOMITE 100% brown, dark brown, grainstone, trace wakestone, very fine-minor fine crystalline, rare recrystallization, rare free crystal, estimated 3-6% intercrystalline, rare vuggy, porosity, yellow white good streaming cut.

1515-1520 DOLOMITE 100% brown, dark brown, grainstone, very fine-minor fine crystalline, estimated 3-6% intercrystalline, trace vuggy, porosity, yellow white good streaming cut.

1520-1525 DOLOMITE 100% brown, dark brown, grainstone, very fine-minor fine crystalline, estimated 3% intercrystalline, trace vuggy, porosity, yellow white good streaming cut.

1525-1530 DOLOMITE 100% brown, dark brown, grainstone, very fine-minor fine crystalline, estimated 3% intercrystalline porosity, yellow white good streaming cut

1530-1534 DOLOMITE 100% brown, dark brown, grainstone, very fine-minor fine crystalline, estimated 3-6% intercrystalline, rare vuggy, porosity, yellow white good streaming cut.

LANDED AT 1534m MD, 1422.26mTVD (SS – 645.04m) ON MARCH 04, 2011  
@1130HRS.

### HORIZONTAL SECTION

DRILLED OUT INTERMEDIATE CASING CEMENT AND STARTED DRILLING  
HORIZONTAL SECTION ON MARCH 08, 2011 @ 2330 HRS.

1534-1540 DOLOMITE 100% buff, light to medium brown, grainstone-packstone, very fine-minor fine crystalline, trace microcrystalline, locally re-crystallized, estimated 3-6% intercrystalline and fracture porosity, yellow white good streaming cut.

TOP LOWER SULPHUR POINT DOLOMITE MD 1544m TVD 1423.02m (SS -645.8m)

1540-1550 DOLOMITE 100% light to medium brown, grainstone-packstone, very fine-fine crystalline, locally re-crystallized, estimated 3-6% intercrystalline and fracture porosity, yellow white good streaming cut.

1550-1560 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, rare free crystal, trace black shale parting, estimated 3-6% intercrystalline and fracture porosity, yellow white good streaming cut.

1560-1570 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace black shale partings, part bituminous, fair crystal relief, trace pyrite, nodules, estimated 3-6% intercrystalline porosity, yellow white good streaming cut.

1570-1580 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, local black shale partings, minor bituminous, fair crystal relief, trace pyritic nodules, estimated 3-6% intercrystalline porosity, spotty to even oil staining, yellow white good streaming cut. Faint petroliferous odour, smokes moderately when cooked.

1580-1590 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, local black shale partings, minor bituminous, fair crystal relief, trace pyritic nodules, estimated 3-6% intercrystalline porosity, even to spotty staining, yellow white good streaming cut. Faint petroliferous odour, smokes moderately when cooked.

1590-1600 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, local recrystallization, some free crystals, fair-poor crystal relief, estimated 3-6% intercrystalline porosity, even staining, yellow white good streaming cut. Faint petroliferous odour, smokes moderately when cooked.

1600-1610 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, some free crystals, fair-poor crystal relief, estimated 3-6% intercrystalline porosity, even Oil staining, yellow white good streaming cut. Faint petroliferous odour, smokes moderately when cooked.

1610-1620 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, estimated 3-6% intercrystalline and inferred occasional vuggy porosity, even Oil staining, yellow white good streaming cut. Faint petroliferous odour.

1620-1630 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace free crystals, trace pyrite, estimated 3-6% intercrystalline and inferred occasional vuggy porosity, even Oil staining, yellow white good streaming cut. Faint petroliferous odour.

1630-1640 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace free crystals, trace pyrite, estimated 3-6% intercrystalline and inferred occasional vuggy porosity, even Oil staining, yellow white good streaming cut. Faint petroliferous odour.

1640-1650 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace free crystals, trace shale partings, trace bituminous, estimated 3-6% intercrystalline and inferred occasional vuggy porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1650-1660 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace free crystals, trace shale partings, trace bituminous, estimated 3-6%

intercrystalline and inferred occasional vuggy porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1660-1670 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace free crystals, trace shale partings, trace bituminous, estimated 3-6% intercrystalline and inferred vuggy porosity, spotty to even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1670-1680 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace shale partings, trace bituminous, estimated 3-9% intercrystalline and inferred vuggy porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1680-1690 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace shale partings, trace bituminous, estimated 3-9% intercrystalline, and inferred vuggy porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1690-1700 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace shale partings, trace bituminous, estimated 3-9% intercrystalline, and inferred vuggy porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1700-1705 NO SAMPLE.

1705-1710 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, estimated 3-6% intercrystalline, and inferred vuggy porosity, even to spotty oil staining, yellow white good streaming cut. Faint petroliferous odour.

1710-1720 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, even-spotty oil staining, yellow white good streaming cut. Faint petroliferous odour.

1720-1730 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, estimated 3-6% intercrystalline porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1730-1740 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1740-1750 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, estimated 3-6% intercrystalline porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1750-1760 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, estimated 3% intercrystalline porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1760-1770 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1770-1780 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, estimated 3% intercrystalline porosity, even oil staining, yellow white good streaming cut.

1780-1790 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, estimated 3% intercrystalline porosity, even oil staining, yellow white good streaming cut.

1790-1795 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, trace pyrite, occasional black shale, estimated 3% intercrystalline porosity, even oil staining, yellow white good streaming cut.

1795-1800 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, trace pyrite, some recrystallization and free crystals, trace pyrite, estimated 3-6% intercrystalline and inferred vuggy porosity, spotty to even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1800-1810 DOLOMITE 100% medium to dark brown, white, grainstone-packstone, very fine-fine crystalline, trace bituminous, common recrystallization and free crystals, estimated 6-9% intercrystalline and inferred vuggy porosity, spotty oil staining, yellow white fair-good slow streaming cut. Faint petroliferous odour.

1810-1820 DOLOMITE 100% predominantly white coarse crystals, part medium to dark brown, grainstone-packstone, brown is very fine-fine crystalline, trace bituminous, abundant recrystallization and free crystals, estimated 6-9% vuggy and intercrystalline porosity, only brown is oil stained, spotty oil staining, yellow white fair-good slow streaming cut.

1820-1830 DOLOMITE 100% predominantly white coarse crystals, part medium to dark brown, grainstone-packstone, brown is very fine-fine crystalline, trace bituminous, abundant recrystallization and free crystals, estimated 6-9% vuggy and intercrystalline porosity, only brown is oil stained, spotty oil staining, yellow white fair-good slow streaming cut.

1830-1840 DOLOMITE 100% white coarse crystals 50%, light to dark brown 50%, grainstone-packstone, brown is very fine-fine crystalline, trace bituminous, abundant

recrystallization and free crystals, estimated 6-9% vuggy and intercrystalline porosity, only brown is oil stained, spotty oil staining, yellow white fair-good slow streaming cut.

1840-1850 DOLOMITE 100% abundant white fine-coarse crystals, light to dark brown grainstone-packstone, brown is very fine- fine crystalline, trace shale, rare pyritic, estimated 6-9% vuggy and intercrystalline porosity, brown is oil stained, spotty oil staining, yellow white fair slow streaming cut.

1850-1860 DOLOMITE 100% light to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, occasional shale, common clear and fine to coarse crystals, trace pyritic, estimated 3-6% intercrystalline and vuggy porosity, brown is oil stained, spotty oil staining, yellow white poor slow cut.

1860-1870 DOLOMITE 100% buff, light brown, minor dark brown, grainstone-packstone, very fine-minor microcrystalline, trace bituminous, occasional shale, trace free crystals, trace pyritic, estimated 3-6% intercrystalline and vuggy porosity, spotty oil staining, poor slow cut.

1870-1880 DOLOMITE 100% light to dark brown, grainstone-wakestone, very fine-minor microcrystalline, trace bituminous, trace shale, common medium to coarse free crystals, estimated 3-6% intercrystalline and vuggy porosity, spotty oil staining, poor slow cut.

1880-1890 DOLOMITE 100% light brown, part dark brown, grainstone-wakekstone, microcrystalline to very fine, trace bituminous, rare shale, common free crystals, estimated 3-6% intercrystalline and vuggy porosity, spotty oil staining, poor slow cut. Faint petroliferous odour.

1890-1900 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, bituminous, poor petroliferous odour estimated 3-6% intercrystalline porosity, spotty oil staining, yellow white streaming cut.

1900-1910 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, bituminous, poor-fair petroliferous odour estimated 3-6% intercrystalline porosity, spotty oil staining, yellow white streaming cut.

1910-1920 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, bituminous, poor petroliferous odour estimated 3-6% intercrystalline porosity, spotty oil staining, golden white streaming cut.

1920-1930 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, bituminous, poor-fair petroliferous odour estimated 3-6% intercrystalline porosity, spotty oil staining, yellow white streaming cut.

1930-1940 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, rare pyritic, rare shale, poor petroliferous odour, estimated 3-6% intercrystalline porosity, spotty oil staining, yellow white streaming cut.



1940-1950 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, minor microcrystalline, trace bituminous, rare pyritic, rare shale, estimated 3-9% intercrystalline and trace vuggy porosity, spotty oil staining, milky white good streaming cut, faint petroliferous odour.

1950-1960 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, rare shale, estimated 3-9% intercrystalline and trace vuggy porosity, spotty oil staining, milky white good streaming cut, faint petroliferous odour.

1960-1970 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, estimated 3-9% intercrystalline and vuggy porosity, even-spotty oil staining, yellow white good streaming cut, faint petroliferous odour.

1970-1980 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, rare pyritic, estimated 3-9% intercrystalline and vuggy porosity, even-spotty oil staining, yellow white good streaming cut, faint petroliferous odour.

1980-1990 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, occasional free coarse clear crystals, trace bituminous, rare pyritic, estimated 3-9% intercrystalline and vuggy porosity, even-spotty oil staining, yellow white good streaming cut, faint petroliferous odour. Traces of oil over the shaker.

1990-2000 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, rare free coarse clear crystals, trace bituminous, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour. Traces of oil over the shaker.

2000-2010 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, rare free crystals, trace bituminous, rare pyritic, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour. Traces of oil over the shaker.

2010-2020 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, rare free crystals, trace bituminous, rare pyritic, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2020-2030 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, rare free crystals, trace bituminous, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2030-2040 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, minor microcrystalline, trace bituminous, estimated 3-9% intercrystalline and vuggy porosity, even, part spotty oil staining, yellow white good streaming cut, faint petroliferous odour.

2040-2050 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, rare shale, rare pyritic, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2050-2060 DOLOMITE 100% light to medium brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2060-2070 DOLOMITE 100% medium brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, minor microcrystalline, trace bituminous, estimated 3-6% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2070-2080 DOLOMITE 100% medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, minor microcrystalline, trace bituminous, estimated 3-6% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2080-2090 DOLOMITE 100% light to medium brown, rare dark brown, grainstone-packstone, sucrosic, very fine- fine crystalline, bituminous, strong petroliferous odour, good oil flow on shaker, estimated 6-9% combined intercrystalline and vuggy porosity, even oil staining, golden white streaming cut.

2090-2100 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, bituminous, estimated 6-9% combined intercrystalline and vuggy porosity, even oil staining, golden white streaming cut, strong petroliferous sample odour, oil over the shaker.

2100-2110 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, bituminous, estimated 3-6% combined intercrystalline and vuggy porosity, even oil staining, golden white streaming cut, oil over the shaker, strong petroliferous sample odour.

2110-2120 DOLOMITE 100% medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, estimated 3-6% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, oil over the shaker, moderate petroliferous sample odour.

2120-2130 DOLOMITE 100% medium brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, oil over the shaker, moderate petroliferous sample odour.

2130-2140 DOLOMITE 100% medium brown, light brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, rare shale, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, moderate petroliferous sample odour.

2140-2150 DOLOMITE 100% medium brown, light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, minor microcrystalline, rare bituminous, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, moderate petroliferous sample odour.

2150-2160 DOLOMITE 100% medium brown, light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, traces microcrystalline, rare bituminous, estimated 3-9% intercrystalline and vuggy porosity, even, minor spotty, oil staining, yellow white good streaming cut, moderate petroliferous sample odour.

2160-2170 DOLOMITE 100% medium brown, light brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, rare bituminous, estimated 3-9% intercrystalline and vuggy porosity, even-spotty oil staining, yellow white good streaming cut.

2170-2180 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, occasional free crystals, trace pyritic, trace bituminous, rare shale, estimated 3-6% intercrystalline, occasional vuggy, porosity, even oil staining, yellow white good streaming cut.

2180-2190 DOLOMITE 100% light- medium brown, occasional dark brown, grainstone-packstone, sucrosic, very fine crystalline, rare free crystals, rare shale, slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, part spotty oil staining, yellow white fair streaming cut, moderate petroliferous sample odour.

2190-2200 DOLOMITE 100% light- medium brown, occasional dark brown, grainstone-packstone, sucrosic, very fine crystalline, rare free crystals, rare shale, slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, spotty to even oil staining, yellow white fair streaming cut. Moderately petroliferous sample odour.

2200-2210 DOLOMITE 100% light- medium brown, occasional dark brown, grainstone-packstone, sucrosic, very fine crystalline, rare free crystals, rare shale, slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, spotty to even oil staining, yellow white fair streaming cut.

2210-2220 DOLOMITE 100% light- medium brown, occasional dark brown, grainstone-packstone, sucrosic, very fine crystalline, rare free crystals, rare shale, slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, spotty to even oil staining, yellow white fair streaming cut.

2220-2230 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-traces fine crystalline, minor slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, even oil staining, yellow white fair-good streaming cut.

2230-2240 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, even oil staining, yellow white good streaming cut.

2240-2250 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, traces slightly bituminous, occasional recrystallization and free crystals, estimated 3-6% intercrystalline, occasional vuggy, porosity, even oil staining, yellow white good streaming cut.

2250-2260 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, traces bituminous, rare shale, estimated 3-6% intercrystalline, and trace vuggy porosity, even oil staining, yellow white good streaming cut.

2260-2270 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace free crystals, estimated 3-6% intercrystalline and trace vuggy porosity, even oil staining, yellow white good streaming cut.

2270-2280 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, trace bituminous, rare pyritic, estimated 3-6% intercrystalline and trace vuggy porosity, even oil staining, yellow white good streaming cut.

2280-2290 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, trace bituminous, rare pyritic, occasional free crystals, estimated 3-9% intercrystalline and minor vuggy porosity, even oil staining, yellow white good streaming cut.

2290-2300 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor bituminous, traces pyritic, common free crystals, rare shale, estimated 6-12% intercrystalline and vuggy, possible fracture, porosity, even to spotty oil staining, yellow white good streaming cut.

2300-2310 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor bituminous, abundant medium and coarse free crystals, rare shale, estimated 3-9% intercrystalline and vuggy porosity, even to spotty oil staining, yellow white good streaming cut.

2310-2320 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor bituminous, abundant medium and coarse free crystals, rare shale, estimated 3-9% intercrystalline and vuggy porosity, even to spotty oil staining, yellow white good streaming cut.

2320-2330 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor bituminous, common free crystals, rare shale, estimated 3-9% intercrystalline and minor vuggy, porosity, even to spotty oil staining, yellow white good streaming cut.

2330-2340 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor bituminous, free crystals, estimated 3-6% intercrystalline and minor vuggy, porosity, even oil staining, yellow white good streaming cut.

2340-2350 DOLOMITE 100% light-medium brown, grainstone-packstone, sucrosic, very fine-fine crystalline, bituminous, some free crystals, estimated 3-9% intercrystalline and vuggy, inferred fracture, porosity, even oil staining, yellow white good streaming cut.

2350-2360 DOLOMITE 100% light-medium brown, grainstone-packstone, sucrosic, very fine-fine crystalline, bituminous, trace free crystals, estimated 6-9% intercrystalline and vuggy, inferred fracture, porosity, even oil staining, yellow white good streaming cut.

2360-2370 DOLOMITE 100% medium brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, trace free crystals, rare shale, estimated 6-9% intercrystalline and vuggy, inferred fracture, porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2370-2380 DOLOMITE 100% medium brown, minor dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, occasionally bituminous, trace free crystals, rare shale, rare coal, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2380-2395 DOLOMITE 100% medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, occasionally bituminous, trace free crystals, trace pyritic, rare shale, rare coal, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2395-2405 DOLOMITE 100% buff, light brown, part medium brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, occasionally bituminous, trace carbonaceous shale partings, trace pyritic, estimated 6-9% intercrystalline and inferred vuggy porosity, light brown even-minor spotty oil staining, milky white good fast streaming cut, faint petroliferous odour.

2405-2415 DOLOMITE 100% buff, light brown, medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, occasionally bituminous, trace carbonaceous shale partings, trace pyritic, estimated 6-12% intercrystalline and

inferred vuggy porosity, light brown even-minor spotty oil staining, milky white good fast streaming cut, faint petroliferous odour.

2415-2430 DOLOMITE 100% buff, light to medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, occasionally bituminous, common carbonaceous shale partings, trace pyritic, estimated 6-12% intercrystalline and inferred vuggy porosity, light brown even-minor spotty oil staining, milky white good streaming cut, faint petroliferous odour.

2430-2435 DOLOMITE 100% buff, light to medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, occasionally bituminous, traces carbonaceous shale partings, trace pyritic, estimated 6-12% intercrystalline and inferred vuggy porosity, light brown even-part spotty oil staining, milky white good slow streaming cut, faint petroliferous odour.

2435-2445 DOLOMITE 100% light to medium brown, trace dark brown, grainstone-minor packstone, sucrosic, very fine- fine crystalline, occasionally bituminous, common carbonaceous shale partings, traces pyritic, estimated 6-12% intercrystalline and inferred vuggy porosity, light brown even-part spotty oil staining, milky white good slow streaming cut, faint petroliferous odour.

2445-2455 DOLOMITE 100% light to medium brown, grainstone-minor packstone, sucrosic, very fine-fine crystalline, trace bituminous, common carbonaceous shale partings, traces pyritic, estimated 6-12% intercrystalline and vuggy porosity, even-spotty oil staining, milky white slow streaming cut, faint petroliferous odour.

2455-2465 DOLOMITE 100% buff, light to medium brown, grainstone-minor packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace carbonaceous shale partings, traces pyritic, estimated 6-9% intercrystalline and vuggy porosity, even-spotty oil staining, milky white slow streaming cut, faint petroliferous odour.

2465-2475 DOLOMITE 100% buff, light to medium brown, trace dark brown, grainstone-minor packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace carbonaceous shale partings, traces pyritic, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, milky white slow streaming cut, faint petroliferous odour.

2475-2485 DOLOMITE 100% medium brown, minor dark brown, grainstone- packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace carbonaceous shale partings, traces pyritic, estimated 6-9% intercrystalline and vuggy porosity, even to minor spotty oil staining, yellow white good streaming cut, faint petroliferous odour.

2485-2500 DOLOMITE 100% medium brown, minor dark brown, grainstone- packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace carbonaceous shale partings, traces pyritic, estimated 6-9% intercrystalline and vuggy porosity, even to minor spotty oil staining, yellow white good streaming cut, faint petroliferous odour.

2500-2505 DOLOMITE 100% medium-light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace carbonaceous, shale partings, pyritic, estimated 6-9% intercrystalline and vuggy porosity, even-spotty oil staining, poor slow cut.

2505-2515 DOLOMITE 100% medium-light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, trace bituminous, occasional carbonaceous shale partings, pyritic, estimated 6-9% intercrystalline and vuggy porosity, even-spotty oil staining, no visible-poor slow cut.

2515-2525 DOLOMITE 100% medium-light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, trace carbonaceous shale partings, pyritic, estimated 6-9% intercrystalline and vuggy porosity, even-spotty oil staining, white yellow good streaming cut.

TOP LOWER SULPHUR POINT AT TOE MD 2530m TVD 1421.22m (SS -644m)

2525-2534 DOLOMITE 100% medium-light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, trace carbonaceous, pyritic, estimated 6-9% intercrystalline and vuggy porosity, even-spotty oil staining, white yellow good streaming cut, faint petroliferous odour.

2534-2537 NO SAMPLE. The well was later drilled to 2537m MD, on March 18, 2011, while reaming the hole prior to running of liner.

TD: 2537m MD. ORIGINAL TD WAS 2534m MD, TVD 1421.17m (SS -643.95m)  
REACHED ON MARCH 16, 2011@ 0215HRS.

## BIT RECORD

| Bit No | Size mm | Make       | Type      | Sr. #   | Depth IN/Out (m) | Bit Mtrs | Bit Hrs | Wt Da N 100 0 | RPM     | Cumul. Hrs | Remarks          |
|--------|---------|------------|-----------|---------|------------------|----------|---------|---------------|---------|------------|------------------|
| 1      | 349     | King Dream | HTOB G-1C | L29145  | 0022/0361        | 339      | 28.00   | 11            | 155     | 028.0      | Surf. Hole       |
| 2      | 222     | Reed       | MSF-513   | 128437  | 0361/1114        | 753      | 74.25   | 4-8           | 100-140 | 102.25     | Intermed. Hole   |
| 3      | 222     | Reed       | Tricone   | EM 2856 | 1114/1240        | 126      | 23.25   | 13-15         | 100-125 | 125.50     |                  |
| 4      | 222     | Reed       | R20A MP   | W30040  | 1240/1333        | 093      | 10.50   | 10-12         | 25-40   | 136.00     |                  |
| 4R R   | 222     | Reed       | R20A MP   | W30040  | 1333/1424        | 091      | 32.50   | 12-14         | 42-45   | 162.50     | Lost in the hole |
| 5      | 222     | Reed       | R09A MP   | JW5842  | 1333/1534        | 201      | 57.50   | 17-19         | 40-45   | 220.00     | Side Track       |
| 6      | 156     | Ulterra    | 513       | 5954    | 1534/2082        | 548      | 48.00   | 6.5-7.5       | 39-43   | 268.00     |                  |
| 7      | 156     | Ulterra    | 155U D513 | 4563    | 2082/2534        | 452      | 59.25   | 7.5-10        | 39-45   | 237.25     |                  |
|        |         |            |           |         |                  |          |         |               |         |            |                  |
|        |         |            |           |         |                  |          |         |               |         |            |                  |

|  |        |
|--|--------|
| BIT HOURS TO DRILL 361m OF SURFACE HOLE:       | 028.00 |
| BIT HOURS TO DRILL 1173m OF INTERMEDIATE HOLE: | 192.00 |
| BIT HOURS TO DRILL m OF MAIN HORIZONTAL HOLE:  | 107.25 |
| TOTAL BIT HOURS TO DRILL 2534m OF HOLE:        | 237.25 |



**MUD RECORD**

| MUD COMPANY: Marquis Alliance |                           |               |                        | MUD TYPE: Gel Polymer |  |
|-------------------------------|---------------------------|---------------|------------------------|-----------------------|--|
| MUD UP @: 1068m               |                           |               |                        |                       |  |
| DEPTH<br>(m)                  | DEN.<br>Kg/m <sup>3</sup> | VIS.<br>(S/L) | W.L.<br>(ml/30<br>min) | pH                    | REMARKS                                      |
| 392                           | 1050                      | 38            | -                      | 9.0                   | Floc. Water 361-1068m.                       |
| 592                           | 1030                      | 37            | -                      | 9.5                   |  |
| 860                           | 1040                      | 36            | -                      | 8.0                   |  |
| 1022                          | 1040                      | 38            | -                      | 9.5                   |  |
| 1032                          | 1110                      | 34            | -                      | 8.0                   |  |
| 1116                          | 1120                      | 43            | 12.0                   | 8.5                   |  |
| 1148                          | 1140                      | 54            | 11.0                   | 9.0                   |  |
| 1230                          | 1130                      | 50            | 7.0                    | 8.5                   |  |
| 1245                          | 1120                      | 49            | 7.0                    | 8.0                   |  |
| 1294                          | 1120                      | 49            | 8.0                    | 8.0                   |  |
| 1349                          | 1120                      | 46            | 9.0                    | 9.5                   | Drilled to 1424 &<br>Sidetracked from 1333m. |
| 1343                          | 1060                      | 42            | 13                     | 12.0                  | Side Track                                   |
| 1398                          | 1080                      | 40            | 9.0                    | 12.0                  |  |
| 1428                          | 1110                      | 48            | 9.0                    | 10.5                  |  |
| 1460                          | 1100                      | 48            | 11.0                   | 9.5                   |  |
| 1514                          | 1110                      | 52            | 8.0                    | 10.0                  |  |
| 1541                          | 1005                      | 37            | 15.0                   | 12.5                  |  |
| 1597                          | 1020                      | 38            | 9.5                    | 11.0                  |  |
| 1695                          | 1010                      | 37            | 8.0                    | 10.0                  |  |
| 1797                          | 1010                      | 40            | 7.5                    | 10.5                  |  |
| 1880                          | 1030                      | 40            | 5.0                    | 9.5                   |  |
| 2021                          | 1040                      | 38            | 5.5                    | 9.5                   |  |
| 2116                          | 1050                      | 40            | 7.5                    | 10.0                  |  |
| 2188                          | 1030                      | 38            | 7.5                    | 9.0                   |  |
| 2217                          | 1040                      | 38            | 8.0                    | 10.5                  |  |
| 2280                          | 1030                      | 41            | 6.0                    | 9.0                   |  |
| 2374                          | 1040                      | 36            | 6.0                    | 10.0                  |  |
| 2501                          | 1030                      | 38            | 7.0                    | 10.5                  |  |
|                               |                           |               |                        |                       |  |

## **ENCLOSURES**

The following are enclosed as part of this report:

1. Build section Measured Depth Geological Strip Log.
2. Build section TVD Geological Strip Log.
3. Lateral Section Measured Depth Horizontal Strip Log.
4. CD.

**DISTRIBUTION**

The ORIGINAL and FIVE copies of the geological report on Para et al Cameron 2H-03 have been completed. The ORIGINAL and FOUR copies of the report are being forwarded to Paramount Resources Ltd. and the remaining copy is being retained by Moh & Associates Oilfield Consultants Ltd.

Respectfully,

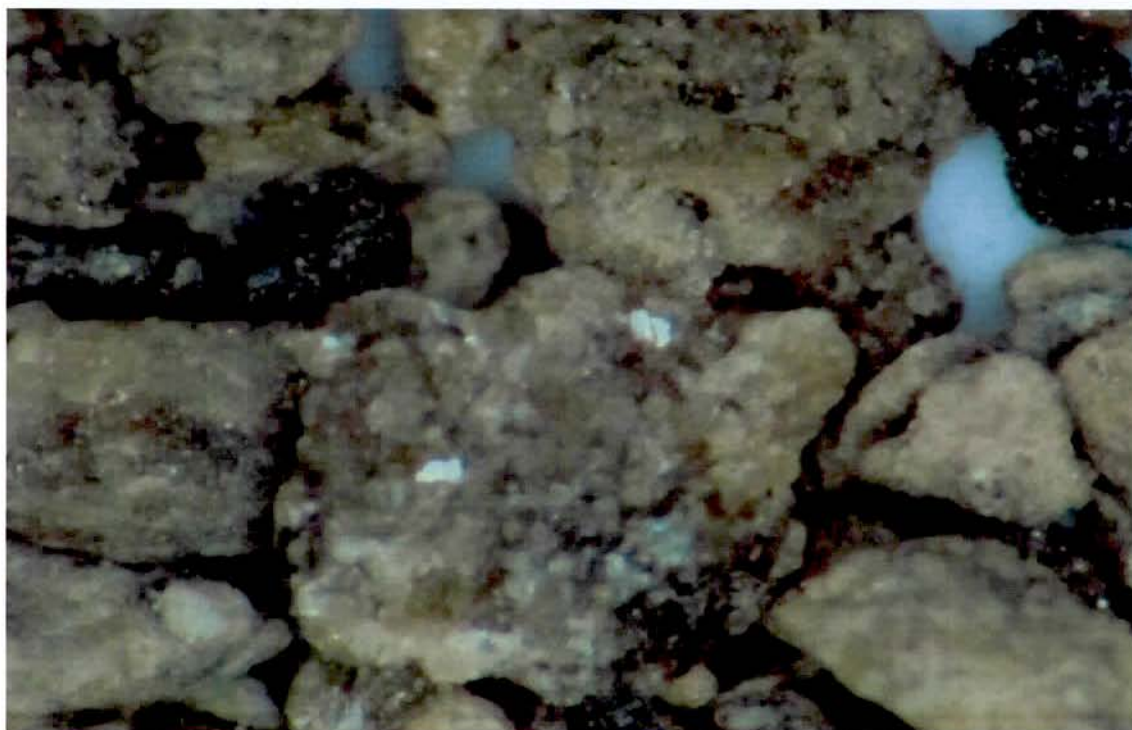
Moh Sahota, B.Sc. (Hons.), M.Sc. (Geology)  
President  
Moh and Associates Oilfield Consultants Ltd.



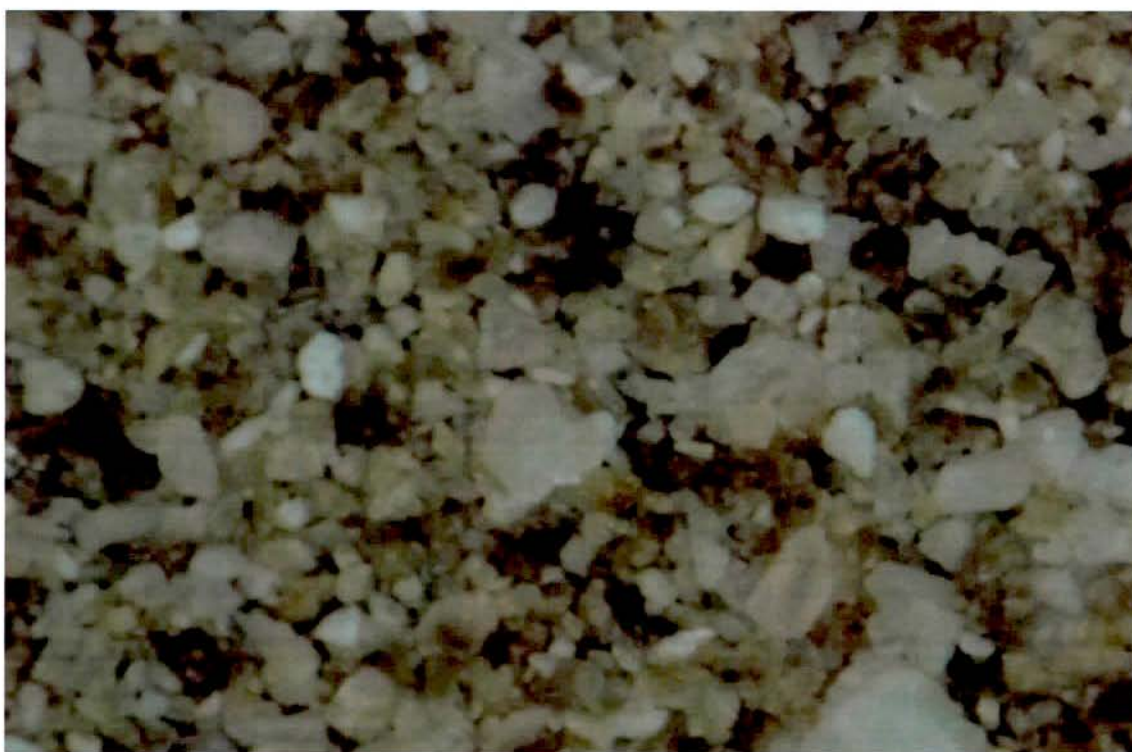
Sul Pt. Dol. 1520-1525mMD-Build Sec. 2H-03-Vuggy Porosity



Sul Pt. Dol. 1530-1534mMD-At Landing of 2H-03



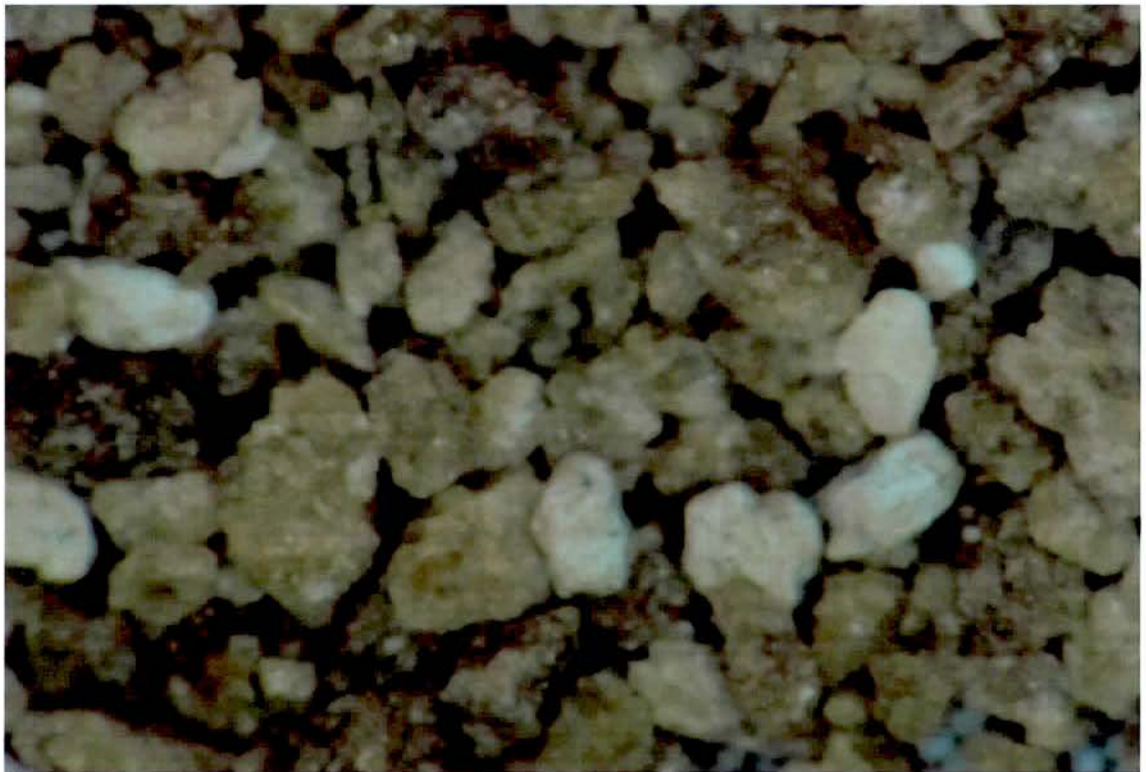
Sul Pt. Dol 1560-1565mMD-Hor Sec. 2H-03- Vuggy Porosity



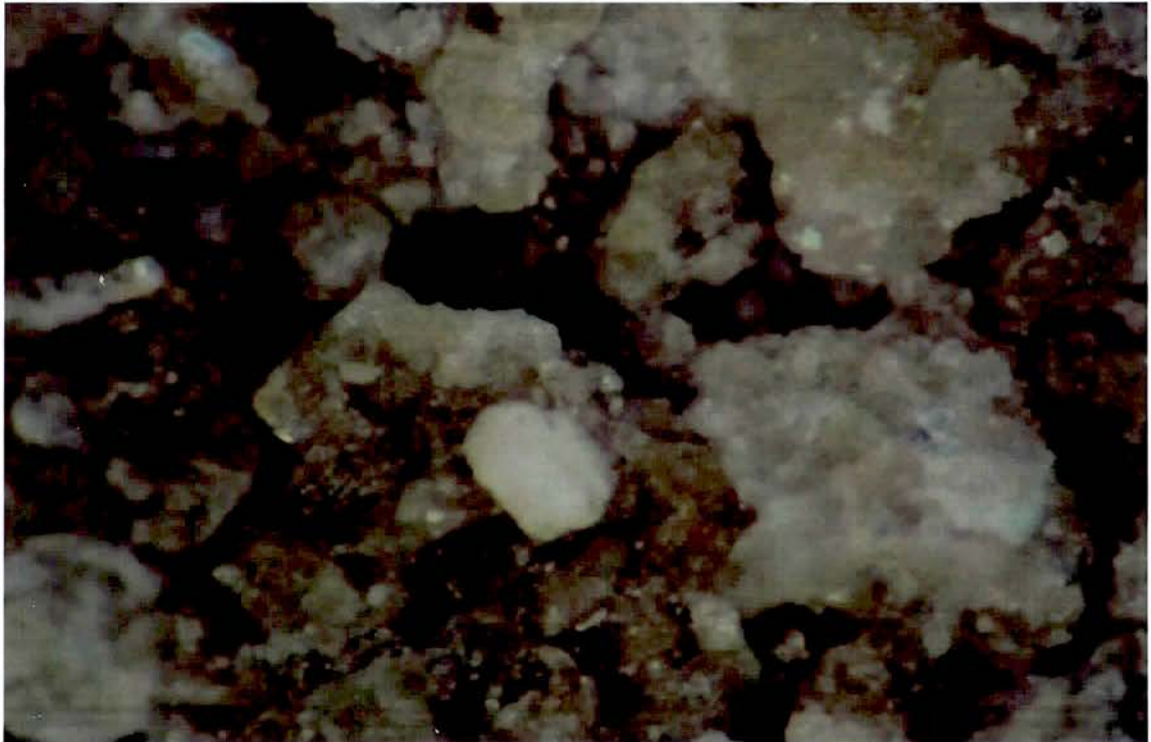
Sul Pt Dol 1830-1835mMD Hor Sec 2H-03- Abundant free Crystals



Sul Pt Dol 1955-1960mMD Hor Sec 2H-03- Vuggy Porosity



Sul Pt Dol 2270-2275mMD Hor Sec 2H-03



Sul Pt Dol 2485-2490mMD Hor Sec 2H-03-Free crystals and Vugs



Sul Pt Dol 2530-2534mMD Hor Sec 2H-03

**SUMMARY OF WELL DATA**

|                           |  |
|---------------------------|--|
| OPERATOR                  | Paramount Resources Ltd.                 |
| WELL NAME                 | Para et al 2H-03                         |
| SURFACE LOCATION          | Unit 2H Section 03 Grid 60° 10' 117° 30' |
| SURFACE COORDINATES       | Lat. 60° 02' 20.4" Long. 117° 30' 6.3"   |
| BOTTOM HOLE COORDINATES   | --                                       |
| UWI                       | 302H036010117300                         |
| FIELD                     | Cameron Hills                            |
| PROVINCE/REGION           | NWT Mainland                             |
| WELL LICENCE NUMBER       | 2073                                     |
| WELL TYPE                 | Horizontal Development Well.             |
| A.F.E. NUMBER             | 10N110009                                |
| GROUND ELEVATION          | 770.20m                                  |
| K.B. ELEVATION            | 777.22m                                  |
| DRILLING CONTRACTOER      | Nabors Drilling Rig # 24                 |
| SPUD DATE                 | January 20, 2011 @ 2345Hrs.              |
| COMPLETED DRILLING        | March 16, 2011 @ 0215 Hrs.               |
| TOTAL DEPTH DRILLER       | 2537MD m.                                |
| TOTAL DEPTH LOGGERS       |  |
| SURFACE HOLE SIZE         | 349 mm.                                  |
| INTERMEDIATE HOLE SIZE    | 222 mm.                                  |
| MAIN/HORIZONTAL HOLE SIZE | 156 mm.                                  |



SAMPLES For PARAMOUNT  
RESOURCES LTD.

None.

SAMPLES FOR NEB

1275m MD to TD, 2 sets of vial and  
one set of unwashed bags.

#### SURFACE CASING RECORD

| Size OD (mm) | Size ID (mm) | Weight Kg/m | Make  | Type | Grade | Shoe at (m) | No Of Joints | Remarks |
|--------------|--------------|-------------|-------|------|-------|-------------|--------------|---------|
| 244.5        | 228.6        | 48.1        | Evrax | ST&C | J-55  | 360         | 27           | New     |
|              |              |             |       |      |       |             |              |         |

#### INTERMEDIATE CASING RECORD

| Size OD (mm) | Size ID (mm) | Weight Kg/m | Make  | Type | Grade | Shoe at (m) | No Of Joints | Remarks |
|--------------|--------------|-------------|-------|------|-------|-------------|--------------|---------|
| 177.8        | 158.5        | 34.3        | Evrax | LT&C | L-80  | 1531        | 115          | New     |
|              |              |             |       |      |       |             |              |         |

#### LOG RECORD

| Company     | Log Type   | Interval ( m )                                   |
|-------------|--|--|
| DataLog LWT | 1. Compensated Neutron Density Gamma Ray Log.<br>+ Density Porosity Log<br>2. Dual Induction Gamma Ray | 2511-5.05m MD<br>1532- 2511m MD<br>2511-1532m MD |

**STATUS: POTENTIAL LOWERSULPHUR POINT OIL WELL.**

## SUMMARY OF GEOLOGICAL MARKERS, TESTS & CORES

| GEOLOGICAL MARKERS          |            | K.B: 777.22m |          |         |            |
|-----------------------------|------------|--------------|----------|---------|------------|
| FORMATION MARKER            | SAMPLE TOP |              | LOGS TOP |         |            |
|                             | TMD (m)    | TVD(m)       | TMD (m)  | TVD(m)  | Subsea (m) |
| WABAMUN                     | -          | -            | 551.5    | 551.5   | 225.72     |
| JEAN MARIE                  | -          | -            | 712.0    | 712.0   | 065.22     |
| FORT SIMPSON                | -          | -            | 720.0    | 720.0   | 057.22     |
| TWIN FALLS                  | -          | -            | 832.0    | 832.0   | 054.78     |
| HAY RIVER                   | -          | -            | 1065.0   | 1065.0  | -287.78    |
| BEAVERHILL LAKE             | 1325.0     | 1322.0       | 1325.0   | 1322.0  | -544.78    |
| SLAVE POINT                 | 1353.0     | 1346.0       | 1352.0   | 1345.5  | -568.28    |
| F 4                         | 1412.0     | 1387.0       | 1411.5   | 1386.5  | -609.28    |
| WATT MOUNTAIN               | 1425.5     | 1394.0       | 1424.0   | 1393.5  | -616.28    |
| SULPHUR POINT LST           | 1433.0     | 1397.5       | 1431.5   | 1397.0  | -619.78    |
| SULPHUR POINT DOL.          | 1483.5     | 1415.0       | 1486.0   | 1415.0  | -638.56    |
| ICP/LANDING                 | 1534.0     | 1422.26      | -        | -       | -645.04    |
| LR. SULPHUR PT. DOL AT HEEL |            |              | 1544.0   | 1423.02 | -645.80    |
| LR. SULPHUR PT. DOL AT TOE  |            |              | 2530.0   | 1421.22 | -644.00    |
| TOTAL DEPTH DRILLER         | 2537.0     | 421.20       | 2537.0   | 1421.20 | -643.98    |
| TOTAL DEPTH LOGGERS         |            |              | 2535.1   | 1421.20 | -643.98    |

### CORES

DATE:

| Formation | Interval (m) | Recovered. | Recovery % | Coring Equip. |
|-----------|--------------|------------|------------|---------------|
|           |              |            |            |               |
|           |              |            |            |               |

### SIDE WALL CORING SUMMARY

CORING DATE:

| Plug # | Time | Depth(m) | Recovery | Plug # | Time | Depth(m) | Recovery |
|--------|------|----------|----------|--------|------|----------|----------|
|        |      |          |          |        |      |          |          |
|        |      |          |          |        |      |          |          |

## DIRECTIONAL SURVEYS

| Measured<br>Depth<br>Meters | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | Subsea<br>TVD<br>Meters | N-S<br>Meters | E-W<br>Meters | Vertical<br>Section<br>Meters | CLOSURE<br>Distance<br>Meters | CLOSURE<br>Direction<br>Deg | Dogleg<br>Severity<br>Deg/30 |
|-----------------------------|----------------------|---------------------------|---------------------------|-------------------------|---------------|---------------|-------------------------------|-------------------------------|-----------------------------|------------------------------|
| .00                         | .00                  | .00                       | .00                       | 777.22                  | .00           | .00           | .00                           | .00                           | .00                         | .00                          |
| 396.60                      | .90                  | 303.30                    | 396.58                    | 380.64                  | 1.71          | -2.60         | -1.73                         | 3.11                          | 303.30                      | .07                          |
| 532.47                      | 1.90                 | 250.90                    | 532.42                    | 244.80                  | 1.56          | -5.62         | -1.60                         | 5.84                          | 285.49                      | .34                          |
| 666.78                      | 2.90                 | 242.90                    | 666.61                    | 110.61                  | -.72          | -10.75        | .63                           | 10.78                         | 266.18                      | .24                          |
| 798.94                      | .20                  | 171.70                    | 798.71                    | -21.49                  | -2.47         | -13.70        | 2.36                          | 13.92                         | 259.78                      | .65                          |
| 933.16                      | .50                  | 146.10                    | 932.93                    | -155.71                 | -3.19         | -13.34        | 3.08                          | 13.71                         | 256.56                      | .07                          |
| 1066.81                     | .50                  | 135.40                    | 1066.57                   | -289.35                 | -4.09         | -12.60        | 3.99                          | 13.25                         | 252.03                      | .02                          |
| 1200.43                     | .80                  | 52.00                     | 1200.18                   | -422.96                 | -3.93         | -11.46        | 3.84                          | 12.11                         | 251.08                      | .20                          |
| 1223.05                     | 1.10                 | 29.20                     | 1222.80                   | -445.58                 | -3.64         | -11.23        | 3.55                          | 11.80                         | 252.03                      | .63                          |
| 1232.45                     | 1.20                 | 21.50                     | 1232.20                   | -454.98                 | -3.47         | -11.15        | 3.38                          | 11.67                         | 252.71                      | .59                          |
| 1242.03                     | 1.10                 | 11.20                     | 1241.78                   | -464.56                 | -3.29         | -11.09        | 3.20                          | 11.57                         | 253.50                      | .72                          |
| 1251.05                     | .90                  | 357.50                    | 1250.80                   | -473.58                 | -3.13         | -11.08        | 3.04                          | 11.51                         | 254.22                      | 1.03                         |
| 1261.27                     | .30                  | 241.10                    | 1261.02                   | -483.80                 | -3.06         | -11.10        | 2.98                          | 11.52                         | 254.58                      | 3.13                         |
| 1270.88                     | 3.10                 | 184.80                    | 1270.62                   | -493.40                 | -3.33         | -11.15        | 3.25                          | 11.64                         | 253.35                      | 9.19                         |
| 1280.49                     | 8.10                 | 174.60                    | 1280.18                   | -502.96                 | -4.27         | -11.11        | 4.18                          | 11.90                         | 248.98                      | 15.85                        |
| 1308.50                     | 22.50                | 169.10                    | 1307.13                   | -529.91                 | -11.53        | -9.90         | 11.46                         | 15.20                         | 220.64                      | 15.48                        |
| 1318.11                     | 26.40                | 169.20                    | 1315.88                   | -538.66                 | -15.44        | -9.15         | 15.37                         | 17.95                         | 210.66                      | 12.18                        |
| 1326.35                     | 27.90                | 169.90                    | 1323.21                   | -545.99                 | -19.14        | -8.47         | 19.07                         | 20.93                         | 203.88                      | 5.58                         |
| 1335.37                     | 29.00                | 167.80                    | 1331.14                   | -553.92                 | -23.35        | -7.64         | 23.29                         | 24.57                         | 198.11                      | 4.94                         |
| 1344.56                     | 31.80                | 165.90                    | 1339.06                   | -561.85                 | -27.88        | -6.58         | 27.83                         | 28.64                         | 193.28                      | 9.66                         |
| 1354.16                     | 35.50                | 165.20                    | 1347.06                   | -569.84                 | -33.03        | -5.25         | 32.99                         | 33.44                         | 189.03                      | 11.63                        |
| 1364.77                     | 39.30                | 165.70                    | 1355.48                   | -578.26                 | -39.27        | -3.63         | 39.24                         | 39.43                         | 185.28                      | 10.78                        |
| 1373.38                     | 43.20                | 165.30                    | 1361.95                   | -584.73                 | -44.76        | -2.21         | 44.74                         | 44.82                         | 182.83                      | 13.62                        |
| 1382.48                     | 46.50                | 166.70                    | 1368.41                   | -591.19                 | -50.99        | -.66          | 50.98                         | 50.99                         | 180.74                      | 11.36                        |
| 1392.09                     | 50.00                | 167.90                    | 1374.80                   | -597.58                 | -57.98        | .91           | 57.99                         | 57.99                         | 179.10                      | 11.28                        |
| 1401.71                     | 52.90                | 168.90                    | 1380.80                   | -603.58                 | -65.35        | 2.43          | 65.37                         | 65.39                         | 177.87                      | 9.37                         |
| 1411.33                     | 55.30                | 171.60                    | 1386.44                   | -609.22                 | -73.03        | 3.74          | 73.06                         | 73.12                         | 177.07                      | 10.13                        |
| 1420.94                     | 58.30                | 172.80                    | 1391.70                   | -614.48                 | -80.99        | 4.83          | 81.03                         | 81.14                         | 176.59                      | 9.88                         |
| 1430.55                     | 60.90                | 173.80                    | 1396.56                   | -619.34                 | -89.23        | 5.80          | 89.27                         | 89.41                         | 176.28                      | 8.55                         |
| 1439.72                     | 63.90                | 175.70                    | 1400.81                   | -623.59                 | -97.32        | 6.54          | 97.37                         | 97.54                         | 176.16                      | 11.25                        |
| 1449.11                     | 67.10                | 175.70                    | 1404.71                   | -627.49                 | -105.84       | 7.18          | 105.89                        | 106.08                        | 176.12                      | 10.22                        |
| 1458.27                     | 70.20                | 175.60                    | 1408.04                   | -630.82                 | -114.34       | 7.83          | 114.40                        | 114.61                        | 176.08                      | 10.16                        |
| 1467.89                     | 73.10                | 175.50                    | 1411.07                   | -633.85                 | -123.44       | 8.54          | 123.51                        | 123.74                        | 176.04                      | 9.05                         |
| 1477.50                     | 75.30                | 176.60                    | 1413.68                   | -636.46                 | -132.67       | 9.17          | 132.74                        | 132.99                        | 176.05                      | 7.62                         |
| 1486.90                     | 77.50                | 178.80                    | 1415.89                   | -638.67                 | -141.80       | 9.54          | 141.87                        | 142.12                        | 176.15                      | 9.79                         |
| 1496.52                     | 78.00                | 179.90                    | 1417.94                   | -640.72                 | -151.20       | 9.64          | 151.27                        | 151.50                        | 176.35                      | 3.70                         |
| 1506.12                     | 80.20                | 180.70                    | 1419.75                   | -642.53                 | -160.62       | 9.59          | 160.69                        | 160.91                        | 176.58                      | 7.30                         |
| 1519.00                     | 84.80                | 181.20                    | 1421.43                   | -644.21                 | -173.39       | 9.38          | 173.46                        | 173.64                        | 176.90                      | 10.78                        |
| 1543.85                     | 87.90                | 182.00                    | 1423.01                   | -645.79                 | -198.17       | 8.69          | 198.24                        | 198.36                        | 177.49                      | 3.86                         |
| 1553.49                     | 87.70                | 182.20                    | 1423.38                   | -646.16                 | -207.80       | 8.34          | 207.86                        | 207.97                        | 177.70                      | .88                          |
| 1562.66                     | 89.70                | 181.40                    | 1423.59                   | -646.37                 | -216.96       | 8.05          | 217.02                        | 217.11                        | 177.88                      | 7.05                         |

|         |       |        |         |         |         |      |        |        |        |      |
|---------|-------|--------|---------|---------|---------|------|--------|--------|--------|------|
| 1572.22 | 91.60 | 181.20 | 1423.48 | -646.26 | -226.52 | 7.83 | 226.58 | 226.66 | 178.02 | 5.99 |
| 1581.39 | 92.30 | 180.50 | 1423.17 | -645.95 | -235.68 | 7.70 | 235.74 | 235.81 | 178.13 | 3.24 |
| 1591.02 | 92.30 | 180.40 | 1422.78 | -645.57 | -245.31 | 7.62 | 245.36 | 245.42 | 178.22 | .31  |
| 1600.66 | 90.50 | 180.60 | 1422.55 | -645.33 | -254.94 | 7.54 | 254.99 | 255.05 | 178.31 | 5.64 |
| 1609.80 | 90.50 | 180.70 | 1422.47 | -645.25 | -264.08 | 7.43 | 264.13 | 264.19 | 178.39 | .33  |
| 1619.43 | 90.50 | 180.70 | 1422.39 | -645.17 | -273.71 | 7.32 | 273.76 | 273.81 | 178.47 | .00  |
| 1629.13 | 89.80 | 181.50 | 1422.36 | -645.14 | -283.41 | 7.13 | 283.45 | 283.50 | 178.56 | 3.29 |
| 1638.51 | 89.10 | 181.00 | 1422.45 | -645.23 | -292.78 | 6.92 | 292.83 | 292.87 | 178.65 | 2.75 |
| 1648.13 | 89.00 | 181.40 | 1422.61 | -645.39 | -302.40 | 6.72 | 302.44 | 302.48 | 178.73 | 1.29 |
| 1657.74 | 88.40 | 181.40 | 1422.83 | -645.61 | -312.01 | 6.49 | 312.05 | 312.07 | 178.81 | 1.87 |
| 1667.34 | 88.80 | 180.00 | 1423.06 | -645.84 | -321.60 | 6.37 | 321.64 | 321.67 | 178.87 | 4.55 |
| 1676.69 | 88.40 | 180.60 | 1423.29 | -646.07 | -330.95 | 6.32 | 330.99 | 331.01 | 178.91 | 2.31 |
| 1686.30 | 89.20 | 180.00 | 1423.49 | -646.27 | -340.56 | 6.27 | 340.60 | 340.61 | 178.94 | 3.12 |
| 1695.95 | 88.80 | 179.90 | 1423.66 | -646.44 | -350.21 | 6.28 | 350.24 | 350.26 | 178.97 | 1.28 |
| 1705.54 | 89.80 | 179.90 | 1423.78 | -646.56 | -359.79 | 6.30 | 359.83 | 359.85 | 179.00 | 3.13 |
| 1715.15 | 89.00 | 179.50 | 1423.88 | -646.66 | -369.40 | 6.35 | 369.44 | 369.46 | 179.02 | 2.79 |
| 1724.79 | 91.00 | 179.20 | 1423.88 | -646.66 | -379.04 | 6.46 | 379.08 | 379.10 | 179.02 | 6.29 |
| 1734.41 | 93.00 | 179.30 | 1423.54 | -646.32 | -388.66 | 6.58 | 388.69 | 388.71 | 179.03 | 6.24 |
| 1744.02 | 93.80 | 178.70 | 1422.97 | -645.75 | -398.25 | 6.75 | 398.29 | 398.30 | 179.03 | 3.12 |
| 1753.64 | 92.90 | 179.30 | 1422.41 | -645.19 | -407.85 | 6.92 | 407.89 | 407.91 | 179.03 | 3.37 |
| 1763.29 | 92.00 | 179.90 | 1422.00 | -644.78 | -417.49 | 6.98 | 417.53 | 417.55 | 179.04 | 3.36 |
| 1772.91 | 91.60 | 179.80 | 1421.70 | -644.48 | -427.10 | 7.01 | 427.15 | 427.16 | 179.06 | 1.29 |
| 1782.52 | 91.90 | 179.40 | 1421.40 | -644.18 | -436.71 | 7.08 | 436.75 | 436.77 | 179.07 | 1.56 |
| 1792.12 | 91.90 | 180.00 | 1421.08 | -643.86 | -446.30 | 7.13 | 446.35 | 446.36 | 179.09 | 1.87 |
| 1801.74 | 90.90 | 179.60 | 1420.85 | -643.63 | -455.92 | 7.16 | 455.96 | 455.98 | 179.10 | 3.36 |
| 1811.39 | 90.20 | 179.90 | 1420.76 | -643.54 | -465.57 | 7.20 | 465.61 | 465.63 | 179.11 | 2.37 |
| 1820.67 | 89.80 | 180.90 | 1420.76 | -643.54 | -474.85 | 7.14 | 474.89 | 474.90 | 179.14 | 3.48 |
| 1830.31 | 90.20 | 180.90 | 1420.76 | -643.54 | -484.49 | 6.99 | 484.53 | 484.54 | 179.17 | 1.24 |
| 1839.94 | 91.60 | 181.30 | 1420.61 | -643.39 | -494.12 | 6.80 | 494.15 | 494.16 | 179.21 | 4.54 |
| 1849.11 | 91.30 | 180.70 | 1420.37 | -643.15 | -503.28 | 6.64 | 503.32 | 503.33 | 179.24 | 2.19 |
| 1858.74 | 89.90 | 181.10 | 1420.27 | -643.05 | -512.91 | 6.49 | 512.94 | 512.95 | 179.27 | 4.54 |
| 1868.15 | 89.20 | 181.10 | 1420.35 | -643.13 | -522.32 | 6.31 | 522.35 | 522.36 | 179.31 | 2.23 |
| 1877.78 | 89.10 | 180.00 | 1420.49 | -643.27 | -531.95 | 6.22 | 531.98 | 531.98 | 179.33 | 3.44 |
| 1887.42 | 88.40 | 180.60 | 1420.70 | -643.48 | -541.58 | 6.17 | 541.62 | 541.62 | 179.35 | 2.87 |
| 1897.02 | 88.30 | 180.90 | 1420.98 | -643.76 | -551.18 | 6.04 | 551.21 | 551.21 | 179.37 | .99  |
| 1906.68 | 88.30 | 180.90 | 1421.26 | -644.04 | -560.83 | 5.89 | 560.86 | 560.86 | 179.40 | .00  |
| 1915.87 | 88.80 | 180.30 | 1421.49 | -644.27 | -570.02 | 5.79 | 570.05 | 570.05 | 179.42 | 2.55 |
| 1925.50 | 89.40 | 179.40 | 1421.65 | -644.43 | -579.65 | 5.82 | 579.68 | 579.68 | 179.42 | 3.37 |
| 1935.14 | 88.70 | 179.10 | 1421.81 | -644.59 | -589.29 | 5.95 | 589.31 | 589.32 | 179.42 | 2.37 |
| 1944.77 | 88.30 | 179.10 | 1422.06 | -644.84 | -598.91 | 6.10 | 598.94 | 598.94 | 179.42 | 1.25 |
| 1954.40 | 88.90 | 178.90 | 1422.29 | -645.07 | -608.54 | 6.26 | 608.57 | 608.57 | 179.41 | 1.97 |
| 1964.03 | 88.90 | 179.00 | 1422.48 | -645.26 | -618.16 | 6.44 | 618.20 | 618.20 | 179.40 | .31  |
| 1973.50 | 89.90 | 178.50 | 1422.58 | -645.36 | -627.63 | 6.65 | 627.66 | 627.67 | 179.39 | 3.54 |
| 1982.91 | 90.60 | 178.20 | 1422.54 | -645.32 | -637.04 | 6.92 | 637.07 | 637.07 | 179.38 | 2.43 |
| 1992.27 | 90.40 | 178.40 | 1422.45 | -645.23 | -646.39 | 7.20 | 646.43 | 646.43 | 179.36 | .91  |
| 2001.45 | 89.90 | 177.70 | 1422.43 | -645.21 | -655.57 | 7.51 | 655.61 | 655.61 | 179.34 | 2.81 |
| 2011.07 | 89.70 | 177.70 | 1422.46 | -645.24 | -665.18 | 7.89 | 665.22 | 665.23 | 179.32 | .62  |
| 2020.29 | 90.70 | 177.90 | 1422.43 | -645.21 | -674.39 | 8.25 | 674.44 | 674.44 | 179.30 | 3.32 |
| 2029.52 | 90.30 | 177.10 | 1422.35 | -645.13 | -683.61 | 8.65 | 683.66 | 683.67 | 179.27 | 2.91 |
| 2039.12 | 90.20 | 177.60 | 1422.31 | -645.09 | -693.20 | 9.09 | 693.25 | 693.26 | 179.25 | 1.59 |

|         |       |        |         |         |          |       |         |         |        |      |
|---------|-------|--------|---------|---------|----------|-------|---------|---------|--------|------|
| 2048.74 | 89.40 | 176.50 | 1422.34 | -645.12 | -702.81  | 9.59  | 702.86  | 702.87  | 179.22 | 4.24 |
| 2057.97 | 89.20 | 177.00 | 1422.46 | -645.24 | -712.02  | 10.11 | 712.08  | 712.10  | 179.19 | 1.75 |
| 2067.55 | 89.60 | 176.90 | 1422.56 | -645.34 | -721.59  | 10.62 | 721.65  | 721.67  | 179.16 | 1.29 |
| 2076.91 | 89.30 | 176.90 | 1422.65 | -645.43 | -730.94  | 11.13 | 731.00  | 731.02  | 179.13 | .96  |
| 2086.54 | 90.00 | 176.90 | 1422.70 | -645.48 | -740.55  | 11.65 | 740.62  | 740.64  | 179.10 | 2.18 |
| 2096.17 | 90.60 | 177.50 | 1422.65 | -645.43 | -750.17  | 12.12 | 750.24  | 750.27  | 179.07 | 2.64 |
| 2105.79 | 90.60 | 178.20 | 1422.55 | -645.33 | -759.78  | 12.48 | 759.86  | 759.88  | 179.06 | 2.18 |
| 2115.40 | 90.70 | 177.90 | 1422.44 | -645.22 | -769.39  | 12.81 | 769.46  | 769.49  | 179.05 | .99  |
| 2125.05 | 91.10 | 178.10 | 1422.29 | -645.07 | -779.03  | 13.14 | 779.11  | 779.14  | 179.03 | 1.39 |
| 2134.41 | 91.40 | 178.70 | 1422.09 | -644.87 | -788.38  | 13.41 | 788.46  | 788.50  | 179.03 | 2.15 |
| 2144.02 | 91.70 | 178.60 | 1421.83 | -644.61 | -797.99  | 13.63 | 798.07  | 798.10  | 179.02 | .99  |
| 2153.21 | 92.00 | 178.80 | 1421.53 | -644.31 | -807.17  | 13.84 | 807.25  | 807.29  | 179.02 | 1.18 |
| 2162.85 | 92.30 | 178.10 | 1421.17 | -643.95 | -816.80  | 14.10 | 816.88  | 816.92  | 179.01 | 2.37 |
| 2172.48 | 92.30 | 177.70 | 1420.78 | -643.56 | -826.41  | 14.45 | 826.50  | 826.54  | 179.00 | 1.25 |
| 2182.11 | 92.70 | 178.80 | 1420.36 | -643.14 | -836.03  | 14.75 | 836.12  | 836.16  | 178.99 | 3.64 |
| 2191.53 | 92.60 | 178.40 | 1419.93 | -642.71 | -845.44  | 14.98 | 845.53  | 845.57  | 178.99 | 1.31 |
| 2201.12 | 92.30 | 179.10 | 1419.52 | -642.30 | -855.02  | 15.19 | 855.11  | 855.15  | 178.98 | 2.38 |
| 2210.74 | 91.70 | 179.70 | 1419.18 | -641.96 | -864.63  | 15.29 | 864.72  | 864.77  | 178.99 | 2.65 |
| 2220.37 | 90.30 | 179.50 | 1419.01 | -641.79 | -874.26  | 15.35 | 874.35  | 874.39  | 178.99 | 4.41 |
| 2229.98 | 90.40 | 180.40 | 1418.96 | -641.74 | -883.87  | 15.36 | 883.96  | 884.00  | 179.00 | 2.83 |
| 2239.60 | 90.10 | 179.90 | 1418.91 | -641.69 | -893.49  | 15.34 | 893.58  | 893.62  | 179.02 | 1.82 |
| 2249.26 | 89.50 | 180.90 | 1418.95 | -641.73 | -903.15  | 15.27 | 903.24  | 903.28  | 179.03 | 3.62 |
| 2258.88 | 89.00 | 182.10 | 1419.07 | -641.85 | -912.76  | 15.02 | 912.85  | 912.89  | 179.06 | 4.05 |
| 2268.51 | 89.50 | 182.20 | 1419.20 | -641.98 | -922.39  | 14.66 | 922.47  | 922.50  | 179.09 | 1.59 |
| 2278.19 | 89.90 | 182.10 | 1419.25 | -642.03 | -932.06  | 14.29 | 932.14  | 932.17  | 179.12 | 1.28 |
| 2287.56 | 88.80 | 182.10 | 1419.36 | -642.14 | -941.42  | 13.95 | 941.50  | 941.53  | 179.15 | 3.52 |
| 2297.19 | 87.80 | 182.90 | 1419.64 | -642.42 | -951.04  | 13.53 | 951.12  | 951.13  | 179.18 | 3.99 |
| 2306.79 | 88.10 | 182.90 | 1419.99 | -642.77 | -960.62  | 13.05 | 960.69  | 960.71  | 179.22 | .94  |
| 2316.43 | 88.80 | 183.50 | 1420.25 | -643.03 | -970.24  | 12.51 | 970.31  | 970.32  | 179.26 | 2.87 |
| 2325.56 | 89.20 | 183.60 | 1420.41 | -643.19 | -979.35  | 11.94 | 979.42  | 979.43  | 179.30 | 1.35 |
| 2335.04 | 88.00 | 183.90 | 1420.64 | -643.42 | -988.81  | 11.32 | 988.87  | 988.87  | 179.34 | 3.91 |
| 2344.64 | 87.30 | 183.50 | 1421.03 | -643.81 | -998.38  | 10.70 | 998.43  | 998.44  | 179.39 | 2.52 |
| 2354.26 | 87.30 | 183.30 | 1421.48 | -644.26 | -1007.97 | 10.13 | 1008.02 | 1008.02 | 179.42 | .62  |
| 2363.95 | 87.80 | 183.20 | 1421.90 | -644.68 | -1017.64 | 9.58  | 1017.68 | 1017.68 | 179.46 | 1.58 |
| 2373.55 | 88.00 | 182.50 | 1422.25 | -645.03 | -1027.22 | 9.11  | 1027.26 | 1027.26 | 179.49 | 2.27 |
| 2382.95 | 88.80 | 182.10 | 1422.51 | -645.29 | -1036.61 | 8.73  | 1036.65 | 1036.65 | 179.52 | 2.85 |
| 2392.56 | 88.50 | 182.40 | 1422.74 | -645.52 | -1046.21 | 8.35  | 1046.24 | 1046.24 | 179.54 | 1.32 |
| 2402.14 | 89.30 | 181.80 | 1422.92 | -645.70 | -1055.78 | 8.00  | 1055.81 | 1055.81 | 179.57 | 3.13 |
| 2411.84 | 89.20 | 181.70 | 1423.05 | -645.83 | -1065.48 | 7.71  | 1065.50 | 1065.50 | 179.59 | .44  |
| 2421.00 | 90.70 | 181.40 | 1423.06 | -645.84 | -1074.63 | 7.46  | 1074.66 | 1074.66 | 179.60 | 5.01 |
| 2430.38 | 90.80 | 181.40 | 1422.94 | -645.72 | -1084.01 | 7.23  | 1084.03 | 1084.03 | 179.62 | .32  |
| 2439.97 | 90.50 | 180.90 | 1422.83 | -645.61 | -1093.60 | 7.04  | 1093.62 | 1093.62 | 179.63 | 1.82 |
| 2449.59 | 90.80 | 180.80 | 1422.72 | -645.50 | -1103.21 | 6.89  | 1103.23 | 1103.24 | 179.64 | .99  |
| 2458.89 | 91.30 | 180.40 | 1422.55 | -645.33 | -1112.51 | 6.80  | 1112.53 | 1112.53 | 179.65 | 2.07 |
| 2468.55 | 91.90 | 180.40 | 1422.28 | -645.06 | -1122.17 | 6.73  | 1122.19 | 1122.19 | 179.66 | 1.86 |
| 2478.15 | 91.00 | 180.50 | 1422.03 | -644.81 | -1131.76 | 6.65  | 1131.78 | 1131.78 | 179.66 | 2.83 |
| 2487.23 | 91.00 | 180.20 | 1421.88 | -644.66 | -1140.84 | 6.60  | 1140.86 | 1140.86 | 179.67 | .99  |
| 2496.85 | 90.60 | 180.60 | 1421.74 | -644.52 | -1150.46 | 6.53  | 1150.48 | 1150.48 | 179.67 | 1.76 |
| 2506.46 | 90.80 | 180.60 | 1421.62 | -644.40 | -1160.07 | 6.43  | 1160.08 | 1160.09 | 179.68 | .62  |

|                  |       |        |         |         |          |      |         |         |        |      |
|------------------|-------|--------|---------|---------|----------|------|---------|---------|--------|------|
| 2516.09          | 90.90 | 180.20 | 1421.48 | -644.26 | -1169.70 | 6.36 | 1169.71 | 1169.72 | 179.69 | 1.28 |
| 2519.00          | 91.00 | 180.50 | 1421.43 | -644.21 | -1172.61 | 6.35 | 1172.62 | 1172.63 | 179.69 | 3.26 |
| PROJECTION TO TD |       |        |         |         |          |      |         |         |        |      |
| 2534.00          | 91.00 | 180.50 | 1421.17 | -643.95 | -1187.61 | 6.22 | 1187.62 | 1187.62 | 179.70 | .00  |

## DAILY DRILLING OPERATIONS SUMMARY Para et al Cameron 2H-03

### DAILY DRILLING SUMMARY

| Date      | Depth m. |      | Progress | Daily Operations Summary   |
|-----------|----------|------|----------|--|
|           | From     | To   |          |  |
| 21-Jan-11 | 27       | 223  | 196      | Left Calgary. Arrived in High Level. Stayed in High Level.   |
| 22-Jan-11 | 223      | 361  | 138      | Left High Level Arrived on location. Rig drilled from 223m to surface TD of 361. Wiper trip. Worked tight spots. Start POOH.   |
| 23-Jan-11 | 361      | 361  | 0        | Ran surface casing. Worked tight spots. Cement casing. W.O.C. Welding work etc.  |
| 24-Jan-11 | 361      | 361  | 0        | Nipple up BOPS. Changed pipe rams. Performed pressure tests. Hook up Kelly hose etc. Pre Drill out safety rig inspection. Wait on bit sub. Slip & cut. Rig up Gas Detector.  |
| 25-Jan-11 | 361      | 531  | 170      | Wait on bit sub. Made up drill assembly. RIH. Tag cement @ 343.6m. Drilled out cement, float and shoe. Drilled 222mm intermediate hole from 361 to 531m.   |
| 26-Jan-11 | 531      | 784  | 253      | Drilled 222mm intermediate hole from 531-784m.   |
| 27-Jan-11 | 784      | 983  | 199      | Drilled 222mm intermediate hole from 784-860m. Wiper trip to 350m. Drilled from 860 to 983m.   |
| 28-Jan-11 | 983      | 1107 | 124      | Drilled 222mm intermediate hole from 983-1000m. Jacked sub with rig Jackers. Drilled from 1000 to 1022m. Jacked sub To level the rig. Drilled from 1022 to 1107m.  |
| 29-Jan-11 | 1107     | 1121 | 14       | Drilled 222mm intermediate hole 1107 to 1114m. Circulated. POOH. Made tri cone bit. RIH. Circulated hole clean. Prepared to skid the rig. Skid & releveled the rig. Rig up front end of rig. Pressure tested HCR line. Drilled 222mm from 1114 to 1121m. |
| 30-Jan-11 | 1121     | 1222 | 101      | Drilled 222mm intermediate hole from to 1121-1136m. Worked tight spot. Drilled 1136-1145. Worked tight spots. Drilled 1145-1154. Worked tight spots. Drilled 1154-1222m.   |

|           |      |      |    |   |
|-----------|------|------|----|---|
| 31-Jan-11 | 1222 | 1240 | 18 | Drilled 222mm intermediate hole from 1222-1240m. Circulate. POOH. Pick up directional tools. RIH with directional tools to 950m while surveying and reaming tight spots.  |
| 01-Feb-11 | 1240 | 1280 | 40 | RIH with directional tools from 950-1240m while surveying and reaming tight spots. Drilled 222mm intermediate hole from 1240 to 1280m. Changed breaker in light plant. Pason crashed. Wait on hot shot to bring pason main computer.              |
| 02-Feb-11 | 1280 | 1333 | 53 | Replaced pason's main computer. Drilled 222mm intermediate hole from 1280 to 1333m. Rig started sinking again. Suspended drilling. Started moving associated equipment, tanks etc and prepared to put additional mating. The operation continued. |
| 03-Feb-11 | 1333 | 1333 | 0  | Completed Jacking/skidding of the rig. Spotted back dog house, mud tanks, cat walk etc. Install flow line. Conditioned mud and circulated. Started POOH to lay down drill pipes. Rig out Gas detector.  |
| 04-Feb-11 | 1333 | 1333 | 0  | Complete POOH. Ran and pressure tested bridge plugs. Start tearing down rig to move to E-52. Drilling of 2H-03 to be resumed after rebuilding of the lease.   |
| 16-Feb-11 | 1333 | 1333 | 0  | Left Calgary & arrived on location. The rig moved back to location from E-52. Wait on Day light.  |
| 17-Feb-11 | 1333 | 1333 | 0  | Wait on Day light. Spot mats and the rig. Moved shacks and rentals to location. Rig up steam, air and power. Rig in mud tanks and mud pumps. Raised lower section of derrick.   |
| 18-Feb-11 | 1333 | 1333 | 0  | Worked on draw works. Warm up & Nipple up BOPS and various lines. Raised top section of derrick. Displaced diesel fuel from the well. Pressure tested manifold. Started pressure testing BOPS. Rig up and tested gas detector.                    |
| 19-Feb-11 | 1333 | 1333 | 0  | Completed pressure testing. Pick up retrieving assembly and heavy weight. RIH. Retrieved both bridge plugs one by one. Slip and cut drill line. Made up directional tools. Made up lower Kelly cock. RIH to 446m. Reamed from 363 to 446m.        |
| 20-Feb-11 | 1333 | 1333 | 0  | RIH with directional tools from MD 446 to 1327m while reaming and cleaning the hole.  |
| 21-Feb-11 | 1333 | 1416 | 83 | RIH from 1327 to 1333m. Drilled 222mm intermediate hole from 1333 to 1416m.   |



|           |      |      |    |  |
|-----------|------|------|----|--|
| 22-Feb-11 | 1416 | 1424 | 8  | Drilled 222mm intermediate hole from 1416 to 1424m. POOH for bit. Part of the mud motor assembly and the bit fell in the well while coming out. RIH for clean out trip. Fish top @ 1416.84m. Started POOH to pick up fishing tools. POOH to 711m.                      |
| 23-Feb-11 | 1424 | 1424 | 0  | POOH from 711m to surface. Make up fishing tools. Run in the hole to 1416m. Latch on to the fish. POOH. No fish. Wait on orders and rig repair. Made up milling tool for dressing up of top of the fish. RIH to 376m.  |
| 24-Feb-11 | 1424 | 1424 | 0  | RIH to 1376 to 1416mm. Dressed up top of the fish with mill. Circulated. POOH. Made up over shot and grapple. RIH to fish part of the mud motor string and bit. Made attempts to latch on to fish but unable to get on to it. Started POOH to change fishing assembly. |
| 25-Feb-11 | 1424 | 1424 | 0  | POOH from 1360 to surface to change fishing tools. Wait on different fishing tools. Made up different fishing assembly and started running in the hole. Reamed and washed from 1351 to 1398m.  |
| 26-Feb-11 | 1424 | 1424 | 0  | Reamed and washed from 1398 to 1417m. Rotated washed over fish. Tried to latch on to fish. POOH. No fish. Slip & cut. RIH to to 1296m to try catching the fish again..   |
| 27-Feb-11 | 1424 | 1424 | 0  | RIH to 1296 to 2418m. Attempted to catch the fish. Fish could not be caught. POOH. RIH open ended to run cement plugs. Wait on cementers. Ran cement plugs. POOH.  |
| 28-Feb-11 | 1424 | 1333 | 0  | Made up directional tools. RIH. Reamed/washed from 847 to 1290m. Drilled cement from 1290 to 1303m. Worked on Pason.   |
| 01-Mar-11 | 1333 | 1338 | 5  | Drilled cement from 1303 to 1331m. Replaced aerated mud with fresh mud. Mixed defoamer. Drilled to 1333m. Well side tracked from 1333m. Control drilled from 1333 to 1338m. Examined samples every 0.5m for any cement content during controlled drilling.             |
| 02-Mar-11 | 1338 | 1413 | 75 | Drilled 222mm intermediate hole from 1338-1413m. Examined 0.5m and 2.5m samples for any cement content from 1338 to 1350m.   |
| 03-Mar-11 | 1413 | 1503 | 90 | Drilled 222mm intermediate build section hole from 1413-1503m.   |
| 04-Mar-11 | 1503 | 1534 | 31 | Drilled 222mm intermediate build section hole from 1503 to landing point of 1534m. Circulated. Wiper trip to surface. Laid down directional tools.   |

|           |      |      |     |  |
|-----------|------|------|-----|--|
| 05-Mar-11 | 1534 | 1534 | 0   | Install and then remove rubber spacer from flow-T. RIH. Laid down 8 singles. Ream and clean from 1330 to 1534m. Condition mud and circulate. POOH to 1410. Worked the string free. POOH to 1328m. Reamed and washed to 1403m. Mixed one sack of gel every 2 minutes. |
| 06-Mar-11 | 1534 | 1534 | 0   | Reamed and washed to 1534m. Mixed one sack of gel every 2 minutes. Circulate bottoms up. POOH. Ran intermediate casing from o.o to 1378m. Washed casing from 1378 to 1420m. Second Geologist arrived on location.  |
| 07-Mar-11 | 1534 | 1534 | 0   | Washed casing from 1420 to bottom. Ran , circulated and cemented intermediate casing. W.O.C. Welding work. Start pressure testing. Wait casing slips seal assembly. Cleaned mud tanks. Start nipple up BOPS.   |
| 08-Mar-11 | 1534 | 1545 | 11  | Completed nipping up of BOPS. Performed pressure test. Made up directional tools. RIH. Drilled out intermediate casing cement. Drilled 156mm horizontal hole from 1534 to 1545m.   |
| 09-Mar-11 | 1545 | 1767 | 222 | Drilled 156mm horizontal hole from 1545-1767m.   |
| 10-Mar-11 | 1767 | 1922 | 155 | Drilled 156mm horizontal hole from 1767-1922m.   |
| 11-Mar-11 | 1922 | 2082 | 160 | Drilled 156mm horizontal hole from 1922-2082m. Circulated bottoms up. Start POOH for bit and pipe swap trip. POOH from 2082 to 1794m.  |
| 12-Mar-11 | 2082 | 2088 | 6   | POOH from 1794m to surface. Laid down directional tools. Made up directional tools and bit # 7. RIH to 1236m. RIH to bottom while reaming and washing numerous tight spots. Drilled 156mm horizontal hole 2083 to 2088m.   |
| 13-Mar-11 | 2088 | 2209 | 121 | Drilled 156mm horizontal hole from 2088 to 2209m.  |
| 14-Mar-11 | 2209 | 2333 | 124 | Drilled 156mm horizontal hole from 2209 to 2333m.  |
| 15-Mar-11 | 2333 | 2526 | 193 | Drilled 156mm horizontal hole from 2333 to 2526m.  |
| 16-Mar-11 | 2526 | 2534 | 8   | Drilled 156mm horizontal hole from 2526-2534m. TD. POOH. Laid down directional tools. Made up reaming tools. Start RIH. Ream and clean to 1635m. Drift each single as it is picked from the catwalk. Second Geologist Left wellsite for Calgary.                     |
| 17-Mar-11 | 2534 | 2534 | 0   | Ream and clean 1635 to 2228m. Drift each single as it is picked from the catwalk.  |
| 18-Mar-11 | 2534 | 2537 | 0   | Ream and clean 2228 to 2537m. Drilled to 2537 while reaming. Pumped down logging tools. Started logging while tripping. POOH to 1150m.   |
| 19-Mar-11 | 2537 | 2537 | 0   | Trip out of the hole 1150 to 943m. Recovered logging tools stuck in the drill pipe. RIH to bottom. Pick up logging tools. Pumped down logging tools. Rig up surface logging equipment and check shot. Logged while   |

|           |      |      |   |   |
|-----------|------|------|---|---|
|           |      |      |   | tripping from 2535m to surface. Laid down logging tools and radioactive source. Started rig up to run liner.  |
| 20-Mar-11 | 2537 | 2537 | 0 | Rig up to run liner. Made up packer BHA. Ran liner with packer assembly from surface to 980m. Ran casing from 980 to 2528m. Pump 11m3 water in the hole. Set open hole packers and bleed off drill pipe. Pull out of the liner, circulate and displace annulus with water. POOH and laid down pipe to 435m. Rig out gas detector. |
| 21-Mar-11 | 2537 | 2537 | 0 | POOH and laid down pipe from 435m to 0m. Laid down tubing hanger. Nipple down BOPS. Tear down rig. Moved Rig and trailers to E-52.  |

**PARA ET AL CAMERON 2H-03**  
**Unit 2H Section 03**  
**Grid 60° 10' 117° 30'**

**SAMPLE RECORD**

KB: 777.22m

**HAY RIVER FORMATION**

1195-1200 SHALE 90% dark grey, black, micromicaceous, part calcareous, part marly, medium hard, fissile-subfissile, part splintery. LIMESTONE 10% grey, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows.

1200-1205 SHALE 95% dark grey, black, micromicaceous, part calcareous, part marly, medium hard, part carbonaceous, fissile-subfissile. LIMESTONE 05% grey, light brown, micritic-very fine grained, mudstone, argillaceous, dense, trace pyrite, estimated 3% earthy porosity, no visible shows.

1205-1210 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, fissile-subfissile. LIMESTONE MINOR grey, light brown, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows.

1210-1215 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile. LIMESTONE MINOR grey, light brown, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows.

1215-1220 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile. Minor LIMESTONE as above.

1220-1225 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, some pyrite nodules, fissile-subfissile. LIMESTONE MINOR grey, light brown, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows.

1225-1230 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, some pyrite nodules, fissile-subfissile. LIMESTONE MINOR grey, light brown, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows.

1230-1235 SHALE 100% dark grey, gray, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, trace pyrite nodules, fissile-subfissile, part splintery. Trace limestone.

1235-1240 SHALE 100% dark grey, gray, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile, part splintery.

TRIP TO PICK UP DIRECTIONAL TOOLS FROM 0315HRS ON JAN. 31 TO 0345HRS  
ON FEB. 01, 2011.

1240-1245 SHALE 100% dark grey, gray, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile, part splintery, Minor Limestone. Poor sample. Lot of cavings after the trip.

1245-1250 SHALE 100% dark grey, black, micromicaceous, part calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile.

1250-1255 SHALE 100% grey, dark grey, black, micromicaceous, calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile, part blocky, part splintery, Trace Limestone.

1255-1260 SHALE 100% grey, dark grey, black, micromicaceous, calcareous, medium hard, part carbonaceous, trace pyritic, fissile-subfissile, part blocky.

1260-1265 SHALE 100% grey, dark grey, black, micromicaceous, calcareous, medium hard, part carbonaceous, pyritic, trace pyrite nodule, fissile-subfissile, part blocky.

START OF BUILD/ KICK OFF POINT 1266m MD

1265-1270 SHALE 100% grey, dark grey, black, micromicaceous, calcareous, hard to medium hard, part carbonaceous, pyritic, fissile-subfissile, part blocky, part splintery. Trace Limestone.

1270-1275 NO SAMPLE.

1275-1280 SHALE 70% grey, dark grey, black, micromicaceous, calcareous, hard to medium hard, part carbonaceous, pyritic, fissile-subfissile, part blocky. LIMESTONE 30% grey, micritic-very fine grained, mudstone, argillaceous, dense, estimated 3% earthy porosity, no visible shows. Some mud materials in the sample.

1280-1285 SHALE 100% grey, dark grey, black, micromicaceous, calcareous, hard to medium hard, part carbonaceous, pyritic, trace pyrite nodule, trace coal, fissile-subfissile. Trace Limestone.

1285-1295 SHALE 100% grey, dark grey, black, minor gray brown, micromicaceous, calcareous, hard to medium hard, part carbonaceous, pyritic, trace pyrite nodule, fissile-subfissile.

1295-1300 SHALE 100% grey, dark grey, black, minor gray brown, micromicaceous, calcareous, hard to medium hard, minor carbonaceous, pyritic, trace pyrite nodules, fissile-subfissile.

1300-1305 SHALE 100% grey, black, dark grey, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, trace pyrite nodules, fissile-subfissile. Trace Limestone.

1305-1310 SHALE 100% grey, dark grey, black, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, trace pyrite nodules, fissile-subfissile.

1310-1315 SHALE 100% grey, dark grey, black, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, common pyrite nodules, fissile-subfissile. Trace Limestone.

1315-1320 SHALE 100% grey, dark grey, black, trace brown, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, common pyrite nodules, fissile-subfissile. TRACE LIMESTONE light grey, light brown, mudstone, micritic, microcrystalline- very fine crystalline, argillaceous, dense, tight, 0-3% earthy porosity, no shows.

1320-1325 SHALE 100% grey, dark grey, black, minor black brown, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, common pyrite nodules, fissile-subfissile, part blocky, part platy. TRACE-MINOR LIMESTONE light grey, mudstone, micritic, microcrystalline- very fine crystalline, argillaceous, dense, tight, estimated 3% earthy porosity, no shows.

TOP BEAVER HILL LK. MD 1325m TVD 1322m (-544.78m)

1325-1330 SHALE 95% dark grey, black, minor black brown, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, common pyrite nodules, fissile-subfissile, part blocky, part platy. LIMESTONE 5% light grey, mudstone, micritic, microcrystalline- very fine crystalline, argillaceous, pyritic, dense, tight, estimated 3% earthy porosity, no shows.

1330-1335 SHALE 90% dark grey, black, minor black brown, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, trace pyrite nodules, fissile-subfissile, part blocky, part splintery. LIMESTONE 10% light grey, light brown, mudstone, micritic, microcrystalline, rare chip fine crystalline, argillaceous, estimated 3% earthy porosity, no shows.

DRILLING SUSPENDED at 1533m MD ON FEB. 02, 2011 TO REBUILD THE LEASE.

## DRILLING RESUMED ON FEB. 21, 2011 @ 0100HRS

1335-1340 SHALE 100% dark grey, black, hard to medium hard, micromicaceous, calcareous, part carbonaceous, pyritic, common pyrite nodules, fissile-subfissile. LIMESTONE MINOR TO 5% light grey, mudstone, micritic, microcrystalline, argillaceous, estimated 3% earthy porosity, no shows.

1340-1345 SHALE 95% grey, dark grey, black, hard to medium hard, micromicaceous, calcareous, minor carbonaceous, pyritic, some pyrite nodules, fissile-subfissile, part blocky. LIMESTONE 5% light grey, mudstone, micritic, microcrystalline, argillaceous, estimated 3% earthy porosity, no shows.

1345-1350 SHALE 90% grey, dark grey, black, hard to medium hard, micromicaceous, calcareous, part grading to marlstone, minor carbonaceous, pyritic, some pyrite nodules, fissile-subfissile, part blocky. LIMESTONE 10% light grey, trace brown, mudstone, micritic, microcrystalline, argillaceous, part pyritic, estimated 3% earthy porosity, no shows.

## TOP SLAVE POINT MD 1353m TVD 1346m (-568.78m)

1350-1355 SHALE 60% as above. LIMESTONE 30% brown, mudstone, micritic, microcrystalline, estimated 3% earthy porosity, no visible shows. LIMESTONE 10% light grey, white, mudstone, dense, pyritic.

1355-1360 LIMESTONE 100% brown, mudstone, micritic, dense, cryptocrystalline to trace very fine crystalline, pyritic, trace pyrite nodules, tight, 3% earthy porosity, yellow white fair streaming cut.

1360-1365 LIMESTONE 100% brown, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-very fine crystalline, pyritic, trace free crystal, tight, 0-3% earthy porosity, yellow white fair streaming cut. Faint petroliferous odour.

1365-1370 LIMESTONE 100% brown, mudstone-wakestone, cryptocrystalline- very fine crystalline, traces pyretic, rare free crystal, estimated 3% pin point porosity, yellow white fair-good streaming cut. Gives petroliferous odour.

1370-1375 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyritic, trace dolomitic, estimated 3% earthy and pin point porosity, yellow white fair-good streaming cut, gives petroliferous odour.

1375-1380 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyretic, trace dolomitic, trace free crystal, estimated 3-6% earthy and pin point porosity, yellow white good streaming cut, gives petroliferous odour.

1380-1385 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic and dolomitic, trace pyrite nodules, rare anhydrite, estimated 3-6% earthy and pin point porosity, yellow white good streaming cut, gives petriferous odour.

1385-1390 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, trace dolomitic, trace carbonaceous, rare Anhydrite, estimated 3% earthy and pin point porosity, yellow white good streaming cut. Trace Calcareous Dolomite.

1390-1395 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, some pyrite nodules, carbonaceous partings, estimated 3% earthy and pin point porosity, yellow white good streaming cut. Trace Dolomite, Trace Anhydrite.

1395-1400 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, some pyrite nodules, tight, estimated 3% earthy and pin point porosity, yellow white good streaming cut. Trace Dolomite.

1400-1405 LIMESTONE 100% as above.

DOLOMITE, CALCAREOUS MINOR brown, microcrystalline to very fine crystalline, calcareous, rare silty shale, estimated 3-9% intercrystalline and pin point porosity, yellow white good streaming cut. TRACE ANHYDRITE white, tan, hard, dense, calcareous.

TOP F-4 MD 1412m TVD 1387m (SS – 609.78m)

1405-1410 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyritic, estimated 3% earthy and pin point porosity, no visible to poor slow cut. Minor Dolomite, Trace Anhydrite.

1410-1415 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyritic, estimated 3% earthy and pin point porosity, good slow streaming cut. Trace Dolomite, Trace Anhydrite.

1415-1420 LIMESTONE 100% brown, mudstone-wakestone, lumpy, cryptocrystalline-minor very fine crystalline, traces pyretic, estimated 3% intergranular and pin point porosity, yellow white good slow streaming cut.

SHALE TRACE green, waxy-silky, medium hard-hard, micaceous, calcareous, pyretic, fissile-blocky.

1420-1424 LIMESTONE 100% brown, mudstone-wakestone, lumpy, cryptocrystalline-minor very fine crystalline, traces pyretic, estimated 3% intergranular and pin point porosity, yellow white fair slow streaming cut.



SHALE TRACE green, waxy-silky, medium hard-hard, micaceous, calcareous, pyretic, fissile-blocky. Minor Dolomite and Traces Anhydrite from above.

TOP WATT MTN. MD 1425.5m TVD 1394m (SS -616.78m)

1424-1430 LIMESTONE 60% brown, buff, mudstone-wakestone, trace grainstone, micritic, lumpy, dense, cryptocrystalline- very fine crystalline, pyritic, estimated 0-3% earthy and pin point porosity, no visible shows. SHALE 40% grey, dark grey caving. Trace Dolomite, Trace green Shale. Poor sample. Shale cavings.

TOP SULPHUR PT. LST. MD 1433m TVD 1397.5m (SS -620.28m)

1430-1435 LIMESTONE 70% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyrite nodules, estimated 3% earthy and pin point porosity, poor slow yellow white cut. SHALE 30% as above, caving, Trace green Shale.

1435-1440 LIMESTONE 70% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace dolomitic, trace pyrite nodules, estimated 3% earthy and pin point porosity, part fair slow yellow white cut. SHALE 30% as above, caving. Trace Green Shale.

1440-1445 LIMESTONE 80% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, Trace pyrite nodules, estimated 3% earthy and pin point porosity, fair slow yellow white cut. SHALE 20% grey. MINOR GREEN SHALE medium hard to hard, calcareous, pyritic. Poor samples, cavings from above.

1445-1450 LIMESTONE 80% brown, mudstone-wakestone, occasional grainstone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, occasional dolomitic, estimated 3% earthy and pin point porosity, fair slow yellow white cut. SHALE 20% grey, dark grey. Minor green shale. Poor samples, cavings from above.

1450-1455 LIMESTONE 80% brown, buff, mudstone-wakestone, occasional grainstone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, occasional dolomitic, trace pyritic, estimated 3-6% earthy and pin point porosity, yellow white streaming cut. TRACE Calc Dolomite. SHALE 20% grey, dark grey. Minor green shale. Poor samples, cavings from above.

1455-1460 LIMESTONE 70% brown, buff, mudstone-wakestone, occasional grainstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, occasional dolomitic, trace pyritic, estimated 3% earthy and pin point porosity, yellow white streaming cut. SHALE 30% grey and green as above cavings.

1460-1465 LIMESTONE 80% brown, buff, mudstone-wakestone, rare grainstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, trace dolomitic, trace

pyritie nodule, estimated 3% earthy and pin point porosity, yellow white streaming cut. SHALE 20% grey and green as above caving.

1465-1470 LIMESTONE 80% brown, buff, mudstone-wakestone, rare grainstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, traces dolomitic, estimated 3% earthy and pin point porosity, yellow white good streaming cut. SHALE 20% grey and green as above caving.

1470-1475 LIMESTONE 80% brown, buff, mudstone-wakestone, trace grainstone, micritic, lumpy, dense, cryptocrystalline-very fine crystalline, traces dolomitic, Trace Calcareous Dolomite, trace free crystals, estimated 3% pin point and intercrystalline porosity, yellow white good streaming cut. SHALE 20% grey and green as above caving.

1475-1480 LIMESTONE 80% brown, buff, mudstone-wakestone, trace grainstone, micritic, lumpy, dense, cryptocrystalline-very fine crystalline, trace dolomitic, Trace Calcareous Dolomite, estimated 3% pin point and intercrystalline porosity, yellow white good streaming cut. SHALE 20% grey and green as above caving.

1480-1485 LIMESTONE 75% as above. DOLOMITE, CALCAREOUS 05% brown, grainstone-wakestone, very fine-minor fine crystalline, calcareous, trace free crystals, estimated 3-6% fracture and intercrystalline porosity, scattered bright yellow fluorescence, yellow white fair to good streaming cut. SHALE 20% grey and green as above caving.

1485-1490 LIMESTONE 90% as above, minor grainstone and calcareous. DOLOMITE, CALCAREOUS 10% brown, grainstone-wakestone, very fine-minor fine crystalline, calcareous, trace free crystals, estimated 3-6% pin point and intercrystalline porosity, yellow white good streaming cut. Some shale caving.

1490-1495 DOLOMITE, CALCAREOUS 70% brown, grainstone-wakestone, very fine-minor fine crystalline, calcareous, trace free crystals, estimated 3-6% pin point and intercrystalline porosity, yellow white good streaming cut. LIMESTONE 30% as above, part grainstone and calcareous. Some shale caving.

1495-1500 DOLOMITE 80% brown, trace dark brown, grainstone-wakestone, very fine-minor fine crystalline, part calcareous, trace free crystals, estimated 3-6% pin point and intercrystalline porosity, yellow white good streaming cut. LIMESTONE 20% as above, part grainstone and calcareous. Some shale caving.

TOP SULP PT. DOLO MD 1483.5m TVD 1415m (SS-637.78m)

1500-1505 DOLOMITE 100% brown, dark brown, grainstone-wakestone, very fine-minor fine crystalline, traces calcareous, estimated 3-6% pin point and intercrystalline porosity, yellow white good streaming cut. Minor Limestone. Some shale caving.

1505-1510 DOLOMITE 100% brown, minor dark brown, grainstone, minor wakestone, very fine-minor fine crystalline, estimated 3-6% intercrystalline porosity, yellow white good streaming cut.

1510-1515 DOLOMITE 100% brown, dark brown, grainstone, trace wakestone, very fine-minor fine crystalline, rare recrystallization, rare free crystal, estimated 3-6% intercrystalline, rare vuggy, porosity, yellow white good streaming cut.

1515-1520 DOLOMITE 100% brown, dark brown, grainstone, very fine-minor fine crystalline, estimated 3-6% intercrystalline, trace vuggy, porosity, yellow white good streaming cut.

1520-1525 DOLOMITE 100% brown, dark brown, grainstone, very fine-minor fine crystalline, estimated 3% intercrystalline, trace vuggy, porosity, yellow white good streaming cut.

1525-1530 DOLOMITE 100% brown, dark brown, grainstone, very fine-minor fine crystalline, estimated 3% intercrystalline porosity, yellow white good streaming cut

1530-1534 DOLOMITE 100% brown, dark brown, grainstone, very fine-minor fine crystalline, estimated 3-6% intercrystalline, rare vuggy, porosity, yellow white good streaming cut.

LANDED AT 1534m MD, 1422.26mTVD (SS – 645.04m) ON MARCH 04, 2011  
@1130HRS.

### HORIZONTAL SECTION

DRILLED OUT INTERMEDIATE CASING CEMENT AND STARTED DRILLING  
HORIZONTAL SECTION ON MARCH 08, 2011 @ 2330 HRS.

1534-1540 DOLOMITE 100% buff, light to medium brown, grainstone-packstone, very fine-minor fine crystalline, trace microcrystalline, locally re-crystallized, estimated 3-6% intercrystalline and fracture porosity, yellow white good streaming cut.

TOP LOWER SULPHUR POINT DOLOMITE MD 1544m TVD 1423.02m (SS -645.8m)

1540-1550 DOLOMITE 100% light to medium brown, grainstone-packstone, very fine-fine crystalline, locally re-crystallized, estimated 3-6% intercrystalline and fracture porosity, yellow white good streaming cut.

1550-1560 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, rare free crystal, trace black shale parting, estimated 3-6% intercrystalline and fracture porosity, yellow white good streaming cut.

1560-1570 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace black shale partings, part bituminous, fair crystal relief, trace pyrite, nodules, estimated 3-6% intercrystalline porosity, yellow white good streaming cut.

1570-1580 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, local black shale partings, minor bituminous, fair crystal relief, trace pyritic nodules, estimated 3-6% intercrystalline porosity, spotty to even oil staining, yellow white good streaming cut. Faint petroliferous odour, smokes moderately when cooked.

1580-1590 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, local black shale partings, minor bituminous, fair crystal relief, trace pyritic nodules, estimated 3-6% intercrystalline porosity, even to spotty staining, yellow white good streaming cut. Faint petroliferous odour, smokes moderately when cooked.

1590-1600 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, local recrystallization, some free crystals, fair-poor crystal relief, estimated 3-6% intercrystalline porosity, even staining, yellow white good streaming cut. Faint petroliferous odour, smokes moderately when cooked.

1600-1610 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, some free crystals, fair-poor crystal relief, estimated 3-6% intercrystalline porosity, even Oil staining, yellow white good streaming cut. Faint petroliferous odour, smokes moderately when cooked.

1610-1620 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, estimated 3-6% intercrystalline and inferred occasional vuggy porosity, even Oil staining, yellow white good streaming cut. Faint petroliferous odour.

1620-1630 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace free crystals, trace pyrite, estimated 3-6% intercrystalline and inferred occasional vuggy porosity, even Oil staining, yellow white good streaming cut. Faint petroliferous odour.

1630-1640 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace free crystals, trace pyrite, estimated 3-6% intercrystalline and inferred occasional vuggy porosity, even Oil staining, yellow white good streaming cut. Faint petroliferous odour.

1640-1650 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace free crystals, trace shale partings, trace bituminous, estimated 3-6% intercrystalline and inferred occasional vuggy porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1650-1660 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace free crystals, trace shale partings, trace bituminous, estimated 3-6%

intercrystalline and inferred occasional vuggy porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1660-1670 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace free crystals, trace shale partings, trace bituminous, estimated 3-6% intercrystalline and inferred vuggy porosity, spotty to even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1670-1680 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace shale partings, trace bituminous, estimated 3-9% intercrystalline and inferred vuggy porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1680-1690 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace shale partings, trace bituminous, estimated 3-9% intercrystalline, and inferred vuggy porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1690-1700 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace shale partings, trace bituminous, estimated 3-9% intercrystalline, and inferred vuggy porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1700-1705 NO SAMPLE.

1705-1710 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, estimated 3-6% intercrystalline, and inferred vuggy porosity, even to spotty oil staining, yellow white good streaming cut. Faint petroliferous odour.

1710-1720 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, even-spotty oil staining, yellow white good streaming cut. Faint petroliferous odour.

1720-1730 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace bituminous, estimated 3-6% intercrystalline porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1730-1740 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1740-1750 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-crystalline, trace bituminous, estimated 3-6% intercrystalline porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1750-1760 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, estimated 3% intercrystalline porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1760-1770 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1770-1780 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, estimated 3% intercrystalline porosity, even oil staining, yellow white good streaming cut.

1780-1790 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, estimated 3% intercrystalline porosity, even oil staining, yellow white good streaming cut.

1790-1795 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, trace pyrite, occasional black shale, estimated 3% intercrystalline porosity, even oil staining, yellow white good streaming cut.

1795-1800 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, trace pyrite, some recrystallization and free crystals, trace pyrite, estimated 3-6% intercrystalline and inferred vuggy porosity, spotty to even oil staining, yellow white good streaming cut. Faint petroliferous odour.

1800-1810 DOLOMITE 100% medium to dark brown, white, grainstone-packstone, very fine-fine crystalline, trace bituminous, common recrystallization and free crystals, estimated 6-9% intercrystalline and inferred vuggy porosity, spotty oil staining, yellow white fair-good slow streaming cut. Faint petroliferous odour.

1810-1820 DOLOMITE 100% predominantly white coarse crystals, part medium to dark brown, grainstone-packstone, brown is very fine-fine crystalline, trace bituminous, abundant recrystallization and free crystals, estimated 6-9% vuggy and intercrystalline porosity, only brown is oil stained, spotty oil staining, yellow white fair-good slow streaming cut.

1820-1830 DOLOMITE 100% predominantly white coarse crystals, part medium to dark brown, grainstone-packstone, brown is very fine-fine crystalline, trace bituminous, abundant recrystallization and free crystals, estimated 6-9% vuggy and intercrystalline porosity, only brown is oil stained, spotty oil staining, yellow white fair-good slow streaming cut.

1830-1840 DOLOMITE 100% white coarse crystals 50%, light to dark brown 50%, grainstone-packstone, brown is very fine-fine crystalline, trace bituminous, abundant

recrystallization and free crystals, estimated 6-9% vuggy and intercrystalline porosity, only brown is oil stained, spotty oil staining, yellow white fair-good slow streaming cut.

1840-1850 DOLOMITE 100% abundant white fine-coarse crystals, light to dark brown grainstone-packstone, brown is very fine- fine crystalline, trace shale, rare pyritic, estimated 6-9% vuggy and intercrystalline porosity, brown is oil stained, spotty oil staining, yellow white fair slow streaming cut.

1850-1860 DOLOMITE 100% light to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, occasional shale, common clear and fine to coarse crystals, trace pyritic, estimated 3-6% intercrystalline and vuggy porosity, brown is oil stained, spotty oil staining, yellow white poor slow cut.

1860-1870 DOLOMITE 100% buff, light brown, minor dark brown, grainstone-packstone, very fine-minor microcrystalline, trace bituminous, occasional shale, trace free crystals, trace pyritic, estimated 3-6% intercrystalline and vuggy porosity, spotty oil staining, poor slow cut.

1870-1880 DOLOMITE 100% light to dark brown, grainstone-wakestone, very fine-minor microcrystalline, trace bituminous, trace shale, common medium to coarse free crystals, estimated 3-6% intercrystalline and vuggy porosity, spotty oil staining, poor slow cut.

1880-1890 DOLOMITE 100% light brown, part dark brown, grainstone-wakekstone, microcrystalline to very fine, trace bituminous, rare shale, common free crystals, estimated 3-6% intercrystalline and vuggy porosity, spotty oil staining, poor slow cut. Faint petroliferous odour.

1890-1900 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, bituminous, poor petroliferous odour estimated 3-6% intercrystalline porosity, spotty oil staining, yellow white streaming cut.

1900-1910 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, bituminous, poor-fair petroliferous odour estimated 3-6% intercrystalline porosity, spotty oil staining, yellow white streaming cut.

1910-1920 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, bituminous, poor petroliferous odour estimated 3-6% intercrystalline porosity, spotty oil staining, golden white streaming cut.

1920-1930 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, bituminous, poor-fair petroliferous odour estimated 3-6% intercrystalline porosity, spotty oil staining, yellow white streaming cut.

1930-1940 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-fine crystalline, trace bituminous, rare pyritic, rare shale, poor petroliferous odour, estimated 3-6% intercrystalline porosity, spotty oil staining, yellow white streaming cut.

1940-1950 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, minor microcrystalline, trace bituminous, rare pyritic, rare shale, estimated 3-9% intercrystalline and trace vuggy porosity, spotty oil staining, milky white good streaming cut, faint petroliferous odour.

1950-1960 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, rare shale, estimated 3-9% intercrystalline and trace vuggy porosity, spotty oil staining, milky white good streaming cut, faint petroliferous odour.

1960-1970 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, estimated 3-9% intercrystalline and vuggy porosity, even-spotty oil staining, yellow white good streaming cut, faint petroliferous odour.

1970-1980 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, trace bituminous, rare pyritic, estimated 3-9% intercrystalline and vuggy porosity, even-spotty oil staining, yellow white good streaming cut, faint petroliferous odour.

1980-1990 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, occasional free coarse clear crystals, trace bituminous, rare pyritic, estimated 3-9% intercrystalline and vuggy porosity, even-spotty oil staining, yellow white good streaming cut, faint petroliferous odour. Traces of oil over the shaker.

1990-2000 DOLOMITE 100% medium to dark brown, grainstone-packstone, very fine-minor fine crystalline, rare free coarse clear crystals, trace bituminous, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour. Traces of oil over the shaker.

2000-2010 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, rare free crystals, trace bituminous, rare pyritic, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour. Traces of oil over the shaker.

2010-2020 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, rare free crystals, trace bituminous, rare pyritic, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2020-2030 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, rare free crystals, trace bituminous, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.



2030-2040 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, minor microcrystalline, trace bituminous, estimated 3-9% intercrystalline and vuggy porosity, even, part spotty oil staining, yellow white good streaming cut, faint petroliferous odour.

2040-2050 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, rare shale, rare pyritic, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2050-2060 DOLOMITE 100% light to medium brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, estimated 3-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2060-2070 DOLOMITE 100% medium brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, minor microcrystalline, trace bituminous, estimated 3-6% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2070-2080 DOLOMITE 100% medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, minor microcrystalline, trace bituminous, estimated 3-6% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2080-2090 DOLOMITE 100% light to medium brown, rare dark brown, grainstone-packstone, sucrosic, very fine- fine crystalline, bituminous, strong petroliferous odour, good oil flow on shaker, estimated 6-9% combined intercrystalline and vuggy porosity, even oil staining, golden white streaming cut.

2090-2100 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, bituminous, estimated 6-9% combined intercrystalline and vuggy porosity, even oil staining, golden white streaming cut, strong petroliferous sample odour, oil over the shaker.

2100-2110 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, bituminous, estimated 3-6% combined intercrystalline and vuggy porosity, even oil staining, golden white streaming cut, oil over the shaker, strong petroliferous sample odour.

2110-2120 DOLOMITE 100% medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, estimated 3-6% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, oil over the shaker, moderate petroliferous sample odour.

2120-2130 DOLOMITE 100% medium brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, oil over the shaker, moderate petroliferous sample odour.

2130-2140 DOLOMITE 100% medium brown, light brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, rare shale, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, moderate petroliferous sample odour.

2140-2150 DOLOMITE 100% medium brown, light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, minor microcrystalline, rare bituminous, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, moderate petroliferous sample odour.

2150-2160 DOLOMITE 100% medium brown, light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, traces microcrystalline, rare bituminous, estimated 3-9% intercrystalline and vuggy porosity, even, minor spotty, oil staining, yellow white good streaming cut, moderate petroliferous sample odour.

2160-2170 DOLOMITE 100% medium brown, light brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, rare bituminous, estimated 3-9% intercrystalline and vuggy porosity, even-spotty oil staining, yellow white good streaming cut.

2170-2180 DOLOMITE 100% medium to dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, occasional free crystals, trace pyritic, trace bituminous, rare shale, estimated 3-6% intercrystalline, occasional vuggy, porosity, even oil staining, yellow white good streaming cut.

2180-2190 DOLOMITE 100% light- medium brown, occasional dark brown, grainstone-packstone, sucrosic, very fine crystalline, rare free crystals, rare shale, slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, part spotty oil staining, yellow white fair streaming cut, moderate petroliferous sample odour.

2190-2200 DOLOMITE 100% light- medium brown, occasional dark brown, grainstone-packstone, sucrosic, very fine crystalline, rare free crystals, rare shale, slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, spotty to even oil staining, yellow white fair streaming cut. Moderately petroliferous sample odour.

2200-2210 DOLOMITE 100% light- medium brown, occasional dark brown, grainstone-packstone, sucrosic, very fine crystalline, rare free crystals, rare shale, slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, spotty to even oil staining, yellow white fair streaming cut.

2210-2220 DOLOMITE 100% light- medium brown, occasional dark brown, grainstone-packstone, sucrosic, very fine crystalline, rare free crystals, rare shale, slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, spotty to even oil staining, yellow white fair streaming cut.

2220-2230 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-traces fine crystalline, minor slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, even oil staining, yellow white fair-good streaming cut.

2230-2240 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor slightly bituminous, estimated 3-6% intercrystalline, rare vuggy, porosity, even oil staining, yellow white good streaming cut.

2240-2250 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, traces slightly bituminous, occasional recrystallization and free crystals, estimated 3-6% intercrystalline, occasional vuggy, porosity, even oil staining, yellow white good streaming cut.

2250-2260 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, traces bituminous, rare shale, estimated 3-6% intercrystalline, and trace vuggy porosity, even oil staining, yellow white good streaming cut.

2260-2270 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace free crystals, estimated 3-6% intercrystalline and trace vuggy porosity, even oil staining, yellow white good streaming cut.

2270-2280 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, trace bituminous, rare pyritic, estimated 3-6% intercrystalline and trace vuggy porosity, even oil staining, yellow white good streaming cut.

2280-2290 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, trace bituminous, rare pyritic, occasional free crystals, estimated 3-9% intercrystalline and minor vuggy porosity, even oil staining, yellow white good streaming cut.

2290-2300 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor bituminous, traces pyritic, common free crystals, rare shale, estimated 6-12% intercrystalline and vuggy, possible fracture, porosity, even to spotty oil staining, yellow white good streaming cut.

2300-2310 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor bituminous, abundant medium and coarse free crystals, rare shale, estimated 3-9% intercrystalline and vuggy porosity, even to spotty oil staining, yellow white good streaming cut.

2310-2320 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor bituminous, abundant medium and coarse free crystals, rare shale, estimated 3-9% intercrystalline and vuggy porosity, even to spotty oil staining, yellow white good streaming cut.

2320-2330 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor bituminous, common free crystals, rare shale, estimated 3-9% intercrystalline and minor vuggy, porosity, even to spotty oil staining, yellow white good streaming cut.

2330-2340 DOLOMITE 100% medium-dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, minor bituminous, free crystals, estimated 3-6% intercrystalline and minor vuggy, porosity, even oil staining, yellow white good streaming cut.

2340-2350 DOLOMITE 100% light-medium brown, grainstone-packstone, sucrosic, very fine-fine crystalline, bituminous, some free crystals, estimated 3-9% intercrystalline and vuggy, inferred fracture, porosity, even oil staining, yellow white good streaming cut.

2350-2360 DOLOMITE 100% light-medium brown, grainstone-packstone, sucrosic, very fine-fine crystalline, bituminous, trace free crystals, estimated 6-9% intercrystalline and vuggy, inferred fracture, porosity, even oil staining, yellow white good streaming cut.

2360-2370 DOLOMITE 100% medium brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, trace free crystals, rare shale, estimated 6-9% intercrystalline and vuggy, inferred fracture, porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2370-2380 DOLOMITE 100% medium brown, minor dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, occasionally bituminous, trace free crystals, rare shale, rare coal, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2380-2395 DOLOMITE 100% medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, occasionally bituminous, trace free crystals, trace pyritic, rare shale, rare coal, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, yellow white good streaming cut, faint petroliferous odour.

2395-2405 DOLOMITE 100% buff, light brown, part medium brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, occasionally bituminous, trace carbonaceous shale partings, trace pyritic, estimated 6-9% intercrystalline and inferred vuggy porosity, light brown even-minor spotty oil staining, milky white good fast streaming cut, faint petroliferous odour.

2405-2415 DOLOMITE 100% buff, light brown, medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, occasionally bituminous, trace carbonaceous shale partings, trace pyritic, estimated 6-12% intercrystalline and

inferred vuggy porosity, light brown even-minor spotty oil staining, milky white good fast streaming cut, faint petroliferous odour.

2415-2430 DOLOMITE 100% buff, light to medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, occasionally bituminous, common carbonaceous shale partings, trace pyritic, estimated 6-12% intercrystalline and inferred vuggy porosity, light brown even-minor spotty oil staining, milky white good streaming cut, faint petroliferous odour.

2430-2435 DOLOMITE 100% buff, light to medium brown, trace dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, occasionally bituminous, traces carbonaceous shale partings, trace pyritic, estimated 6-12% intercrystalline and inferred vuggy porosity, light brown even-part spotty oil staining, milky white good slow streaming cut, faint petroliferous odour.

2435-2445 DOLOMITE 100% light to medium brown, trace dark brown, grainstone-minor packstone, sucrosic, very fine- fine crystalline, occasionally bituminous, common carbonaceous shale partings, traces pyritic, estimated 6-12% intercrystalline and inferred vuggy porosity, light brown even-part spotty oil staining, milky white good slow streaming cut, faint petroliferous odour.

2445-2455 DOLOMITE 100% light to medium brown, grainstone-minor packstone, sucrosic, very fine-fine crystalline, trace bituminous, common carbonaceous shale partings, traces pyritic, estimated 6-12% intercrystalline and vuggy porosity, even-spotty oil staining, milky white slow streaming cut, faint petroliferous odour.

2455-2465 DOLOMITE 100% buff, light to medium brown, grainstone-minor packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace carbonaceous shale partings, traces pyritic, estimated 6-9% intercrystalline and vuggy porosity, even-spotty oil staining, milky white slow streaming cut, faint petroliferous odour.

2465-2475 DOLOMITE 100% buff, light to medium brown, trace dark brown, grainstone-minor packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace carbonaceous shale partings, traces pyritic, estimated 6-9% intercrystalline and vuggy porosity, even oil staining, milky white slow streaming cut, faint petroliferous odour.

2475-2485 DOLOMITE 100% medium brown, minor dark brown, grainstone- packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace carbonaceous shale partings, traces pyritic, estimated 6-9% intercrystalline and vuggy porosity, even to minor spotty oil staining, yellow white good streaming cut, faint petroliferous odour.

2485-2500 DOLOMITE 100% medium brown, minor dark brown, grainstone- packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace carbonaceous shale partings, traces pyritic, estimated 6-9% intercrystalline and vuggy porosity, even to minor spotty oil staining, yellow white good streaming cut, faint petroliferous odour.

2500-2505 DOLOMITE 100% medium-light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, trace bituminous, trace carbonaceous, shale partings, pyritic, estimated 6-9% intercrystalline and vuggy porosity, even-spotty oil staining, poor slow cut.

2505-2515 DOLOMITE 100% medium-light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-fine crystalline, trace bituminous, occasional carbonaceous shale partings, pyritic, estimated 6-9% intercrystalline and vuggy porosity, even-spotty oil staining, no visible-poor slow cut.

2515-2525 DOLOMITE 100% medium-light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, trace carbonaceous shale partings, pyritic, estimated 6-9% intercrystalline and vuggy porosity, even-spotty oil staining, white yellow good streaming cut.

TOP LOWER SULPHUR POINT AT TOE MD 2530m TVD 1421.22m (SS -644m)

2525-2534 DOLOMITE 100% medium-light brown, minor dark brown, grainstone-packstone, sucrosic, very fine-minor fine crystalline, trace bituminous, trace carbonaceous, pyritic, estimated 6-9% intercrystalline and vuggy porosity, even-spotty oil staining, white yellow good streaming cut, faint petroliferous odour.

2534-2537 NO SAMPLE. The well was later drilled to 2537m MD, on March 18, 2011, while reaming the hole prior to running of liner.

TD: 2537m MD. ORIGINAL TD WAS 2534m MD, TVD 1421.17m (SS -643.95m)  
REACHED ON MARCH 16, 2011@ 0215HRS.

**BIT RECORD**

| Bit No | Size mm | Make       | Type      | Sr. #   | Depth IN/Out (m) | Bit Mtrs | Bit Hrs | Wt Da N 1000 | RPM     | Cumul. Hrs | Remarks          |
|--------|---------|------------|-----------|---------|------------------|----------|---------|--------------|---------|------------|------------------|
| 1      | 349     | King Dream | HTOB G-1C | L29145  | 0022/0361        | 339      | 28.00   | 11           | 155     | 028.0      | Surf. Hole       |
| 2      | 222     | Reed       | MSF-513   | 128437  | 0361/1114        | 753      | 74.25   | 4-8          | 100-140 | 102.25     | Intermed. Hole   |
| 3      | 222     | Reed       | Tricone   | EM 2856 | 1114/1240        | 126      | 23.25   | 13-15        | 100-125 | 125.50     |                  |
| 4      | 222     | Reed       | R20A MP   | W30040  | 1240/1333        | 093      | 10.50   | 10-12        | 25-40   | 136.00     |                  |
| 4R R   | 222     | Reed       | R20A MP   | W30040  | 1333/1424        | 091      | 32.50   | 12-14        | 42-45   | 162.50     | Lost in the hole |
| 5      | 222     | Reed       | R09A MP   | JW5842  | 1333/1534        | 201      | 57.50   | 17-19        | 40-45   | 220.00     | Side Track       |
| 6      | 156     | Ulterra    | 513       | 5954    | 1534/2082        | 548      | 48.00   | 6.5-7.5      | 39-43   | 268.00     |                  |
| 7      | 156     | Ulterra    | 155U D513 | 4563    | 2082/2534        | 452      | 59.25   | 7.5-10       | 39-45   | 237.25     |                  |
|        |         |            |           |         |                  |          |         |              |         |            |                  |
|        |         |            |           |         |                  |          |         |              |         |            |                  |

|  |        |
|--|--------|
| BIT HOURS TO DRILL 361m OF SURFACE HOLE:       | 028.00 |
| BIT HOURS TO DRILL 1173m OF INTERMEDIATE HOLE: | 192.00 |
| BIT HOURS TO DRILL m OF MAIN HORIZONTAL HOLE:  | 107.25 |
| TOTAL BIT HOURS TO DRILL 2534m OF HOLE:        | 237.25 |

**MUD RECORD**

| MUD COMPANY: Marquis Alliance |                           |               |                        | MUD TYPE: Gel Polymer |  |
|-------------------------------|---------------------------|---------------|------------------------|-----------------------|--|
| MUD UP @: 1068m               |                           |               |                        |                       |  |
| DEPTH<br>(m)                  | DEN.<br>Kg/m <sup>3</sup> | VIS.<br>(S/L) | W.L.<br>(ml/30<br>min) | pH                    | REMARKS                                      |
| 392                           | 1050                      | 38            | -                      | 9.0                   | Floc. Water 361-1068m.                       |
| 592                           | 1030                      | 37            | -                      | 9.5                   |  |
| 860                           | 1040                      | 36            | -                      | 8.0                   |  |
| 1022                          | 1040                      | 38            | -                      | 9.5                   |  |
| 1032                          | 1110                      | 34            | -                      | 8.0                   |  |
| 1116                          | 1120                      | 43            | 12.0                   | 8.5                   |  |
| 1148                          | 1140                      | 54            | 11.0                   | 9.0                   |  |
| 1230                          | 1130                      | 50            | 7.0                    | 8.5                   |  |
| 1245                          | 1120                      | 49            | 7.0                    | 8.0                   |  |
| 1294                          | 1120                      | 49            | 8.0                    | 8.0                   |  |
| 1349                          | 1120                      | 46            | 9.0                    | 9.5                   | Drilled to 1424 &<br>Sidetracked from 1333m. |
| 1343                          | 1060                      | 42            | 13                     | 12.0                  | Side Track                                   |
| 1398                          | 1080                      | 40            | 9.0                    | 12.0                  |  |
| 1428                          | 1110                      | 48            | 9.0                    | 10.5                  |  |
| 1460                          | 1100                      | 48            | 11.0                   | 9.5                   |  |
| 1514                          | 1110                      | 52            | 8.0                    | 10.0                  |  |
| 1541                          | 1005                      | 37            | 15.0                   | 12.5                  |  |
| 1597                          | 1020                      | 38            | 9.5                    | 11.0                  |  |
| 1695                          | 1010                      | 37            | 8.0                    | 10.0                  |  |
| 1797                          | 1010                      | 40            | 7.5                    | 10.5                  |  |
| 1880                          | 1030                      | 40            | 5.0                    | 9.5                   |  |
| 2021                          | 1040                      | 38            | 5.5                    | 9.5                   |  |
| 2116                          | 1050                      | 40            | 7.5                    | 10.0                  |  |
| 2188                          | 1030                      | 38            | 7.5                    | 9.0                   |  |
| 2217                          | 1040                      | 38            | 8.0                    | 10.5                  |  |
| 2280                          | 1030                      | 41            | 6.0                    | 9.0                   |  |
| 2374                          | 1040                      | 36            | 6.0                    | 10.0                  |  |
| 2501                          | 1030                      | 38            | 7.0                    | 10.5                  |  |
|                               |                           |               |                        |                       |  |



## **ENCLOSURES**

The following are enclosed as part of this report:

1. Build section Measured Depth Geological Strip Log.
2. Build section TVD Geological Strip Log.
3. Lateral Section Measured Depth Horizontal Strip Log.
4. CD.

**DISTRIBUTION**

The ORIGINAL and FIVE copies of the geological report on Para et al Cameron 2H-03 have been completed. The ORIGINAL and FOUR copies of the report are being forwarded to Paramount Resources Ltd. and the remaining copy is being retained by Moh & Associates Oilfield Consultants Ltd.

Respectfully,

Moh Sahota, B.Sc. (Hons.), M.Sc. (Geology)  
President  
Moh and Associates Oilfield Consultants Ltd.



**Paramount**  
*resources ltd.*

Scale 1:240 (5"=100') Metric  
Measured Depth Log

Well Name: PARA ET AL CAMERON 2H-03; UWI: 302H036010117300  
Location: SURFACE: Unit 2H Section 03 Grid 60° 10' 117° 30'  
License Number: ADW WID #: 2073; NEB Operating Licence #: 1221 Region: NWT Mainland; Field: C  
Spud Date: Jan. 20, 2011@ 2345 hrs Drilling Completed: March 16, 2011@0215h  
Surface Coordinates: Lat 60° 02' 20.4" Long 117° 30' 6.3"

Bottom Hole  
Coordinates:  
Ground Elevation (m): 770.20m K.B. Elevation (m): 777.22m  
Logged Interval (m): Surface To: TD Total Depth (m): 2537m  
Formation:  
Type of Drilling Fluid: Gel Polymer

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

#### OPERATOR

Company: Paramount Resources Ltd.  
Address: Bankers Hall,  
4700-888 3rd Streey S.W.  
Calgary , AB. T2P 5C5

GEO  IST

Name: Mashhood A. Chaudhry  
Company: Moh & Associates Oilfield Consultants Ltd.  
Address: 509 - 206 7th Avenue S.W.  
Calgary, AB. Canada. T2P 0W7

Cores

DSTs

Comments

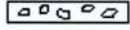
ROCK TYPES



Anhy



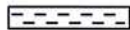
Bent



Brec



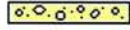
Cht



Clyst



Coal



Congl



Dol



Gyp



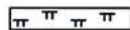
Igne



Lmst



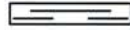
Meta



Mrlst



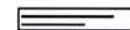
Salt



Shale



Shcol



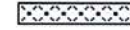
Shgy



Sltst



Ss



Till

ACCENTRIES

MINERAL

Anhy  
 Arggrn  
 Arg  
 Bent  
 Bit  
 Breclrag  
 Calc  
 Carb  
 Chtdk  
 Chtlt  
 Dol  
 Feldspar  
 Ferrpel  
 Ferr  
 Glau

Gyp  
 Hvymin  
 Kaol  
 Marl  
 Minxl  
 Nodule  
 Phos  
 Pyr  
 Salt  
 Sandy  
 Silt  
 Sil  
 Sulphur  
 Tuff

FOSSIL

Algae  
 Amph  
 Belm  
 Bioclst  
 Brach  
 Bryozoa  
 Cephal  
 Coral  
 Crin  
 Echin  
 Fish  
 Foram  
 Fossil  
 Gastro  
 Oolite

Ostra  
 Pelec  
 Pellet  
 Pisolite  
 Plant  
 Strom

STRINGER

Anhy  
 Arg  
 Bent  
 Coal  
 Dol  
 Gyp  
 Ls  
 Mrst

Sltstrg  
 Ssstrg

TEXTURE

Boundst  
 Chalky  
 Cryxln  
 Earthy  
 Finexln  
 Grainst  
 Lithogr  
 Microxln  
 Mudst  
 Packst  
 Wackest

OTHER SYMBOLS

POROSITY

Earthy  
 Fenest  
 Fracture  
 Inter  
 Moldic  
 Organic  
 Pinpoint

Vuggy

SORTING

Well  
 Moderate  
 Poor

ROUNDING

Rounded  
 Subrnd  
 Subang  
 Angular

OIL SHOW

Even

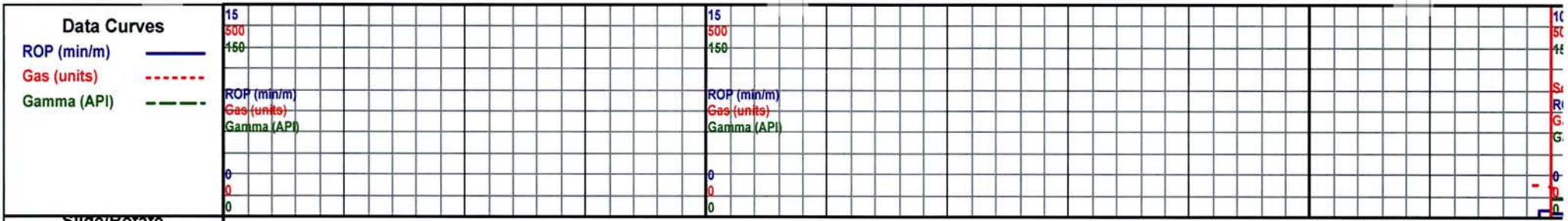
Spotted  
 Ques  
 Dead

INTERVAL

Core  
 Dst

EVENT

Rft  
 Sidewall



| Depth | 80 | 1485 | 1490 | 1495 | 1500 | 1505 | 1510 | 1515 | 1520 | 1525 | 1530 | 1534 |
|-------|----|------|------|------|------|------|------|------|------|------|------|------|
|-------|----|------|------|------|------|------|------|------|------|------|------|------|



**Oil Shows**

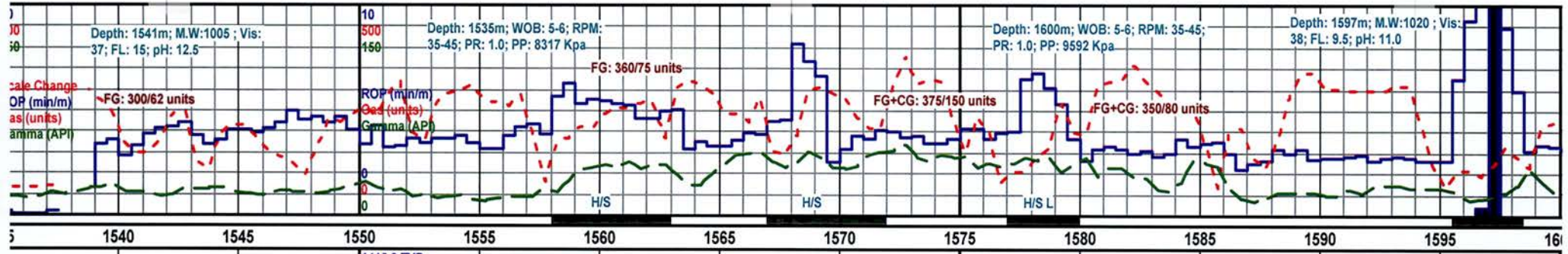
| Porosity | 20% | 21% | 19% | 18% | 17% | 16% | 15% | 14% | 13% | 12% | 11% | 10% | 9% | 8% | 7% | 6% | 5% | 4% | 3% | 2% | 1% | 0% |  |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|--|
|          |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |  |

**Porosity Type**

| Grain Size | 1/16 mm | 1/8 mm | 1/4 mm | 1/2 mm | 1 mm |
|------------|---------|--------|--------|--------|------|
|            |         |        |        |        |      |

**Rounding**

**Sorting**

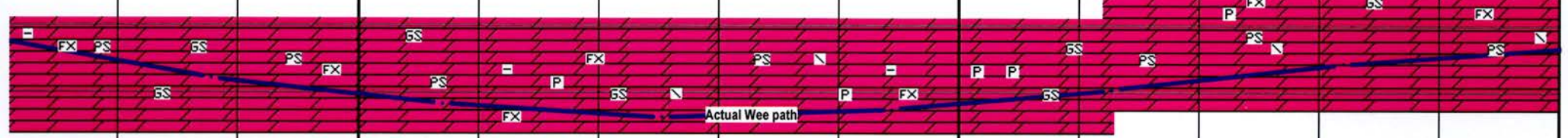


|  |                      |  |  |  |  |   |
|--|----------------------|--|--|--|--|---|
| MD: 1543.85, TVD: 1423, INCL: 87.9 AZ: 182 | 1415.2 TVD (SS -638) |  |  |  |  | MD: 1591.4, TVD: 1422.8, INCL: 92.3 AZ: 180.4 |
|--|----------------------|--|--|--|--|---|

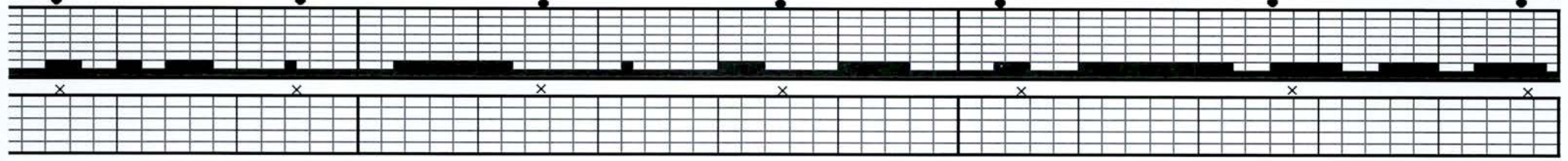
|  |   |  |   |  |  |   |
|--|---|--|---|--|--|---|
| 4-1540 DOL 100% bf, med brn, grnst-pckst, nfr f xl, tr microxln, illy re-crystallized, est % intxl & frac por, yel g stmg cut. | 1540-1550 DOL 100% lt-med brn, grnst-pckst, vf-f xl, locally re-crystallized, est 3-6% intxl & frac por, yel wh g stmg cut. | 1550-1560 DOL 100% med-dk brn, grnst-pckst, vf-f xl, rr free crystal, tr blk sh ptg, est 3-6% intxl & frac por, yel wh g stmg cut. | 1560-1570 DOL 100% med-dk brn, grnst-pckst, vf-f xl, tr blk sh partings, pt bitns, fr crystal relief, tr pyr, nod, est 3-6% intxl por, yel wh g stmg cut. | 1570-1580 DOL 100% med-dk brn, grnst-pckst, vf-f xl, local blk sh partings, mnr bitns, fr crystal relief, tr pyritie nod, est 3-6% intxl por, sp-even o stng, yel wh g stmg cut. Faint petf odour, smokes mod when cooked. | 1580-1590 DOL 100% med-dk brn, grnst-pckst, vf-f xl, local blk sh partings, mnr bitns, fr crystal relief, tr pyritie nod, est 3-6% intxl por, even-sp stng, yel wh g stmg cut. Faint petf odour, smokes mod when cooked. | 1590-1600 DOL 100% med-dk brn, grnst-pckst, vf-f xl, local reliz, some free xls, fr-p crystal relief, est 3-6% intxl por, even stng, yel wh g stmg cut. Faint petf odour, smokes mod when cooked. |
|--|---|--|---|--|--|---|

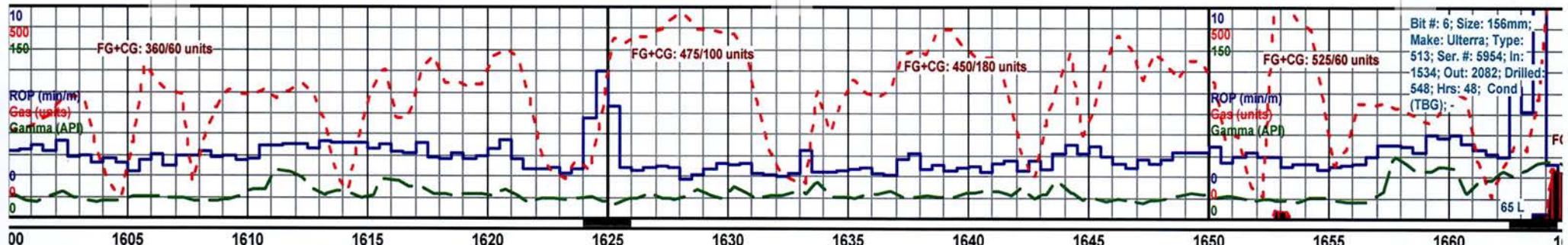
|  |                  |  |  |  |  |  |
|--|------------------|--|--|--|--|--|
|  | 1420.2 (ss -643) |  |  |  |  |  |
|--|------------------|--|--|--|--|--|

TOP LOWER SULPHUR POINT AT HEEL MD 1544m TVD 1423.02m (SS -645.8m)



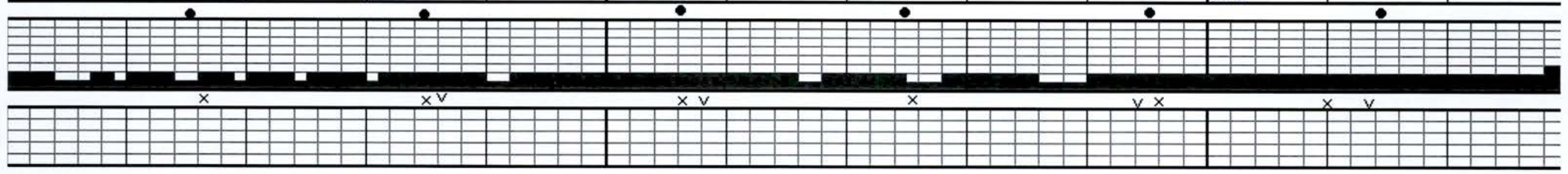
|  |           |  |  |  |  |  |
|--|-----------|--|--|--|--|--|
|  | (SS -648) |  |  |  |  |  |
|--|-----------|--|--|--|--|--|



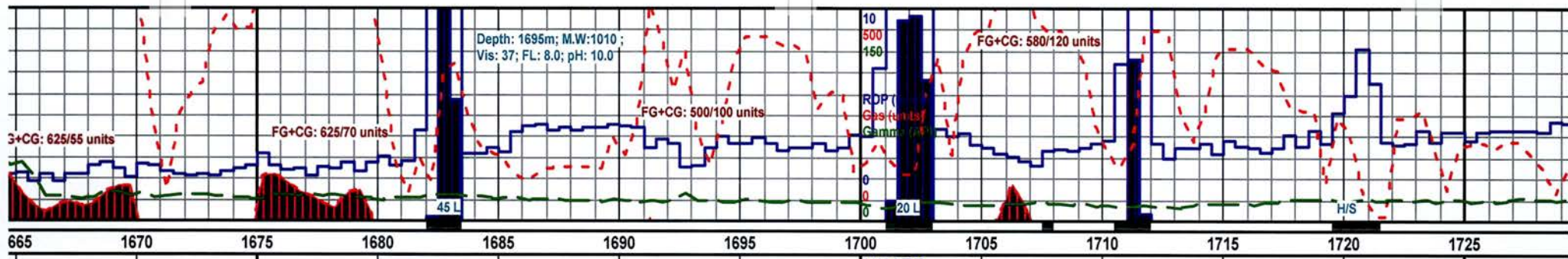


Bit #: 6; Size: 156mm;  
 Make: Ulterra; Type:  
 513; Ser. #: 5954; In:  
 1534; Out: 2082; Drilled:  
 548; Hrs: 48; Cond  
 (TBG): -

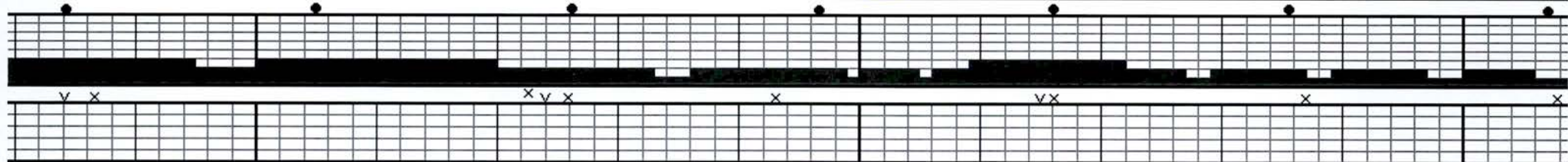
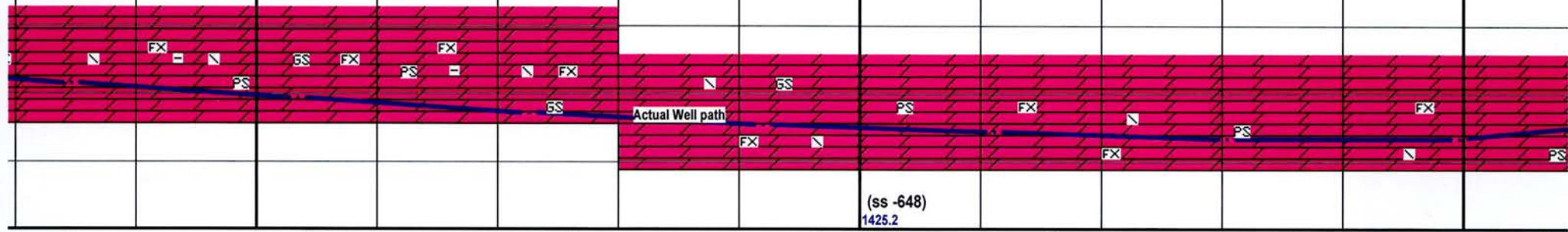
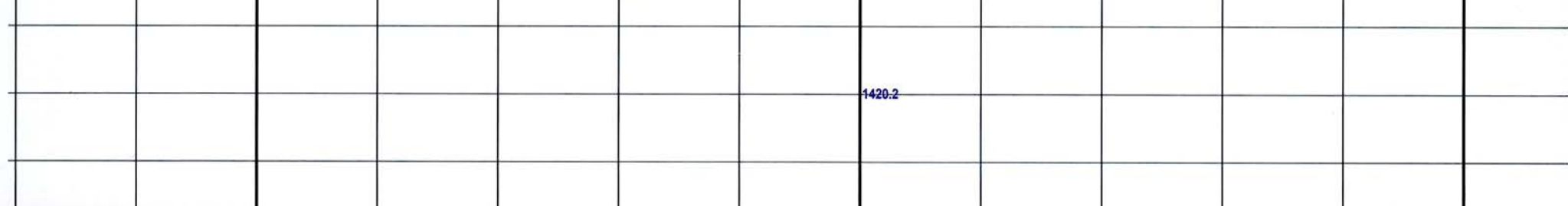
|   |  |  |   |  |   |   |                         |
|---|--|--|---|--|---|---|-------------------------|
| 1415.2 TVD<br>(SS -638)   | MD: 1600.7, TVD:<br>1422.55, INCL: 90.5<br>AZ: 180.6   |  |   |  |   |   | 1415.2 TVD<br>(SS -638) |
| 1600-1610 DOL 100% med-dk<br>brn, grnst-pckst, vf-f xl, some<br>free xls, fr-p crystal relief, est<br>3-6% intxl por, even stng, yel wh<br>g stmg cut. Faint petf odour,<br>smokes mod when cooked. | 1610-1620 DOL 100% med-dk<br>brn, grnst-pckst, vf-f xl, est<br>3-6% intxl & inferred occ vugy<br>por, even Oil stng, yel wh g<br>stmg cut. Faint petf odour. | 1620-1630 DOL 100%<br>med-dk brn, grnst-pckst, vf-f<br>xl, tr free xls, tr pyr, est 3-6%<br>intxl & inferred occ vugy por,<br>even Oil stng, yel wh g stmg<br>cut. Faint petf odour. | 1630-1640 DOL 100%<br>med-dk brn, grnst-pckst,<br>vf-f xl, tr free xls, tr pyr, est<br>3-6% intxl & inferred occ<br>vugy por, even Oil stng, yel<br>wh g stmg cut. Faint petf<br>odour. | 1640-1650 DOL 100% med-dk<br>brn, grnst-pckst, vf-f xl, tr free<br>xls, tr sh partings, tr bitns, est<br>3-6% intxl & inferred occ vugy<br>por, even Oil stng, yel wh g<br>stmg cut. Faint petf odour. | 1650-1660 DOL 100%<br>med-dk brn, grnst-pckst, vf-f<br>xl, tr free xls, tr sh partings,<br>tr bitns, est 3-6% intxl &<br>inferred occ vugy por, even<br>o stng, yel wh g stmg cut.<br>Faint petf odour. | 1660-1670 DOL 100%<br>brn, grnst-pckst, vf-f<br>xls, tr sh partings,<br>3-6% intxl & inferre<br>sp-even o stng, yel<br>cut. Faint petf odou |                         |
| 1420.2<br>(ss -643)   |  |  |   |  |   |   | 1420.2                  |
|   |  |  |   |  |   |   |                         |
| (ss -648)   |  |  |   |  |   |   | (ss -648)               |
| 1425.2  |  |  |   |  |   |   | 1425.2                  |

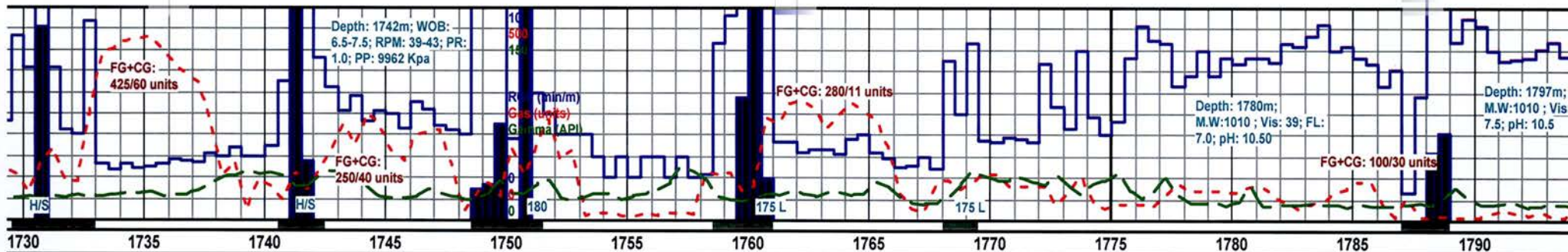






|  |   |  |  |                            |                         |   |   |  |  |
|--|---|--|--|----------------------------|-------------------------|---|---|--|--|
|  |   |  |  |                            | 1415.2 TVD<br>(ss -638) |   |   |  |  |
|  |   |  |  |                            |                         |   |   |  |  |
| 1% med-dk<br>f-f xl, tr free<br>tr bitns, est<br>d vugy por,<br>wh g stmg<br>jr. | 1670-1680 DOL 100%<br>med-dk brn, grnst-pckst, vf-f<br>xl, tr sh partings, tr bitns, est<br>3-9% intxl & inferred vugy<br>por, even o stng, yel wh g<br>stmg cut. Faint petf odour. | 1680-1690 DOL 100% med-dk<br>brn, grnst-pckst, vf-f xl, tr sh<br>partings, tr bitns, est 3-9%<br>intxl, & inferred vugy por, even<br>o stng, yel wh g stmg cut. Faint<br>petf odour. | 1690-1700 DOL 100%<br>med-dk brn, grnst-pckst, vf-f<br>xl, tr sh partings, tr bitns, est<br>3-9% intxl, & inferred vugy<br>por, even o stng, yel wh g<br>stmg cut. Faint petf odour. | 1700-1705<br>NO<br>SAMPLE. |                         | 1705-1710 DOL<br>100% med-dk brn,<br>grnst-pckst, vf-f xl,<br>est 3-6% intxl, &<br>inferred vugy por,<br>even-sp o stng, yel<br>wh g stmg cut.<br>Faint petf odour. | 1710-1720 DOL 100% med-dk<br>brn, grnst-pckst, vf-f xl, tr<br>bitns, est 3-6% intxl, rr vugy,<br>por, even-sp o stng, yel wh g<br>stmg cut. Faint petf odour. | 1720-1730 DOL 100%<br>med-dk brn, grnst-pckst, vf-f<br>xl, tr bitns, est 3-6% intxl por,<br>even o stng, yel wh g stmg<br>cut. Faint petf odour. |  |





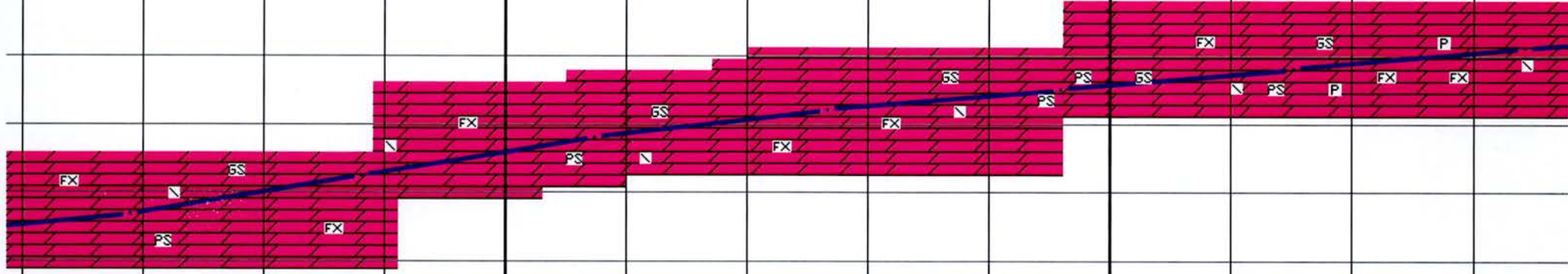
1730 1735 1740 1745 1750 1755 1760 1765 1770 1775 1780 1785 1790

1415.2 TVD

MD: 1782.5, TVD: 1421.4, INCL: 91.9 AZ: 179.4

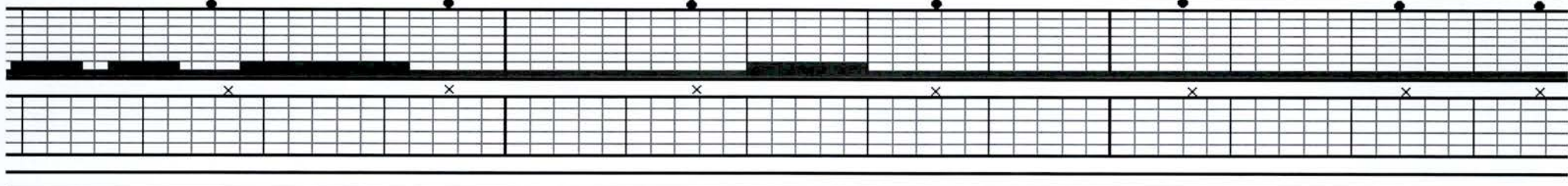
|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| 1730-1740 DOL 100% med-dk brn, grnst-pckst, vf-f xl, tr bitns, est 3-6% intxl, rr vugy, por, even o stng, yel wh g stmg cut. Faint petf odour. | 1740-1750 DOL 100% med-dk brn, grnst-pckst, vf-f xl, tr bitns, est 3-6% intxl por, even o stng, yel wh g stmg cut. Faint petf odour. | 1750-1760 DOL 100% med-dk brn, grnst-pckst, vf-f xl, tr bitns, est 3% intxl por, even o stng, yel wh g stmg cut. Faint petf odour. | 1760-1770 DOL 100% med-dk brn, grnst-pckst, vf-f xl, tr bitns, est 3-6% intxl, rr vugy, por, even o stng, yel wh g stmg cut. Faint petf odour. | 1770-1780 DOL 100% med-dk brn, grnst-pckst, vf-f xl, tr bitns, est 3% intxl por, even o stng, yel wh g stmg cut. | 1780-1790 DOL 100% med-dk brn, grnst-pckst, vf-mnr f xl, tr bitns, est 3% intxl por, even o stng, yel wh g stmg cut. | 1790-1795 DOL 100% med-dk brn, grnst-pckst, vf-mnr f xl, tr bitns, tr pyr, occ blk sh, est 3% intxl por, even o stng, yel wh g stmg cut. |
|--|--|--|--|--|--|--|

1420.2



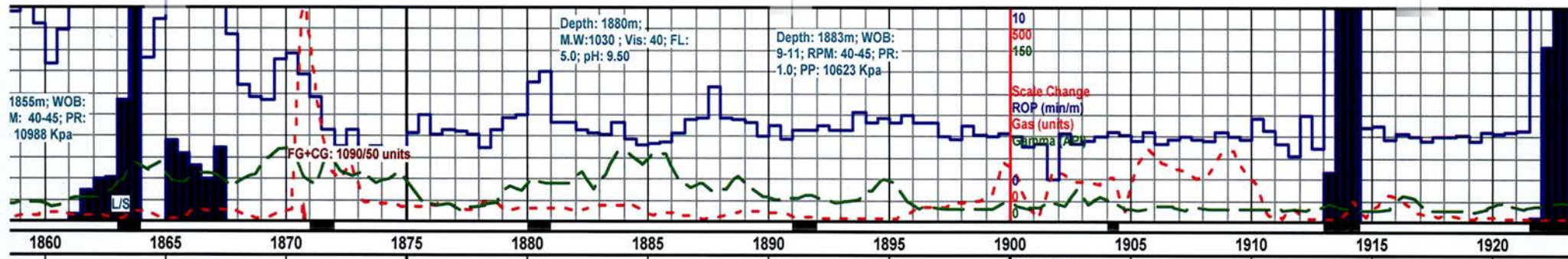
(ss -648)

1425.2

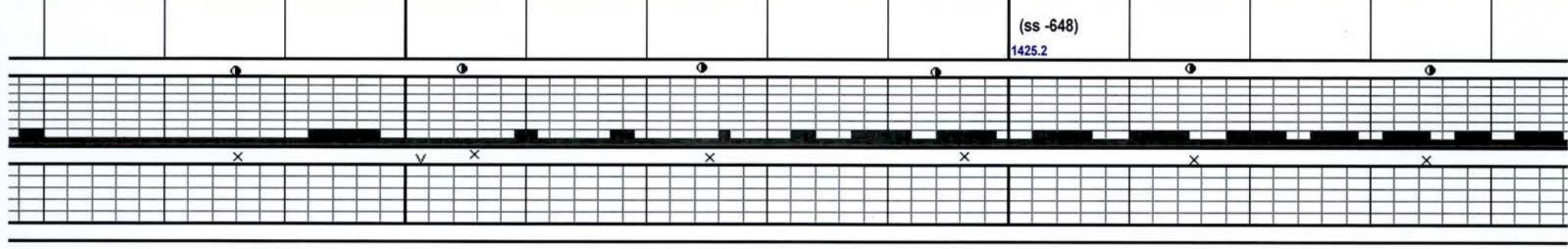
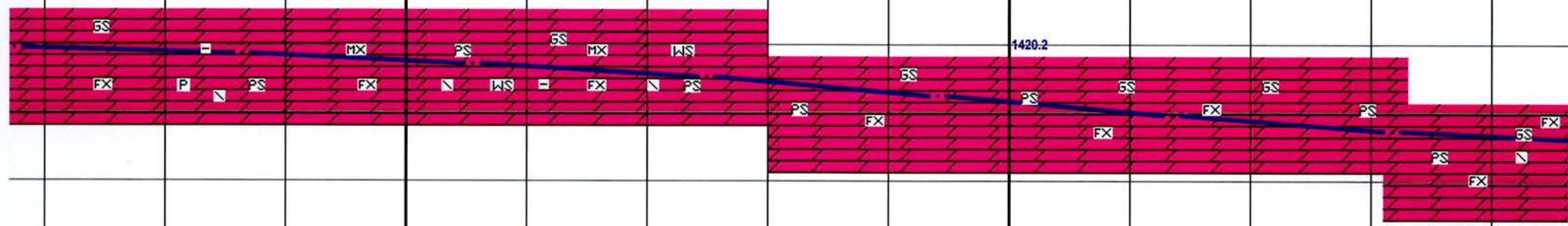


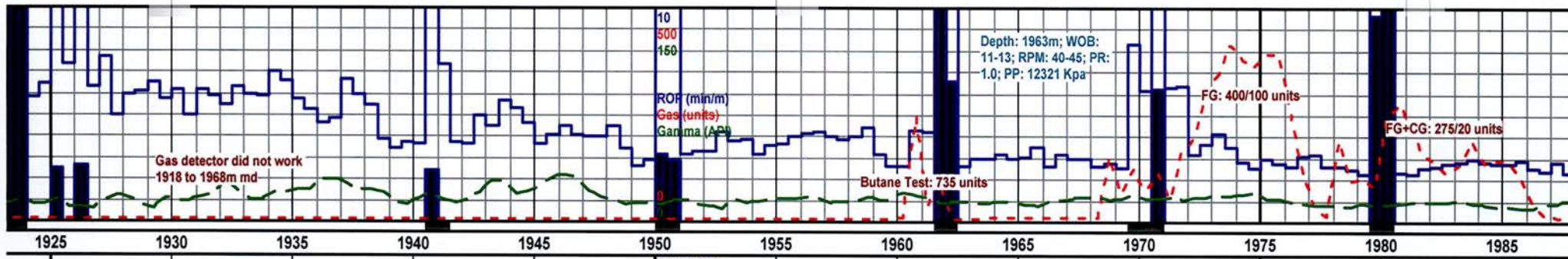
1730 1735 1740 1745 1750 1755 1760 1765 1770 1775 1780 1785 1790



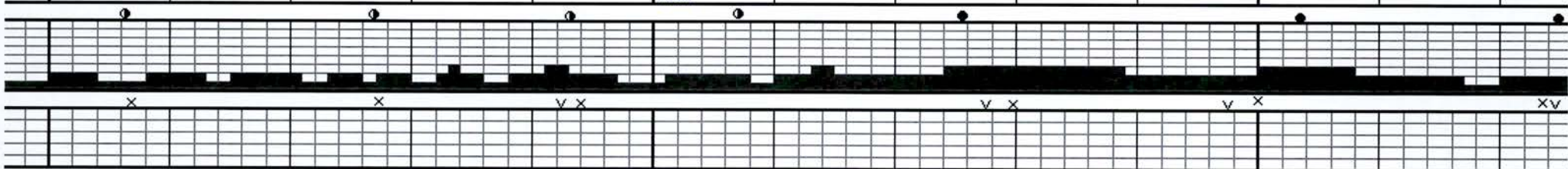
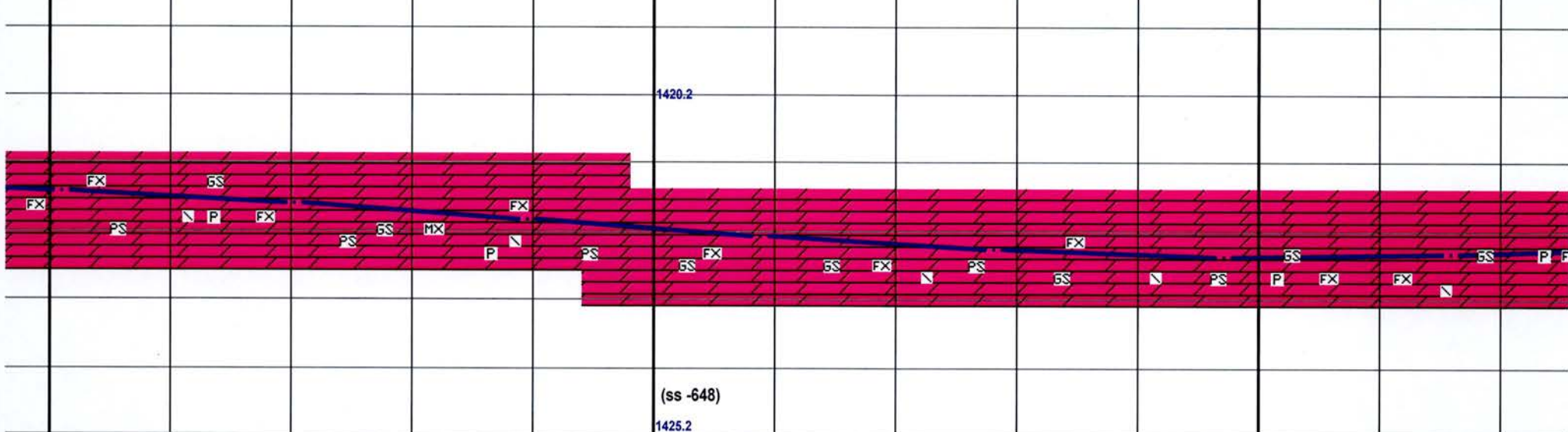


|   |  |   |   |   |  |  |   |  |  |
|---|--|---|---|---|--|--|---|--|--|
|   |  |   |   |   |  | 1415.2 TVD   |   |  |  |
|   |  |   |   |   |  |  |   |  |  |
| c | 1860-1870 DOL 100% bf, lt brn, mn<br>dk brn, grnst-pckst, vf-mnr<br>microxln, tr bitns, occ sh, tr free xls,<br>tr pyr, est 3-6% intxl & vugy por, sp<br>o stng, p slow cut. | 1870-1880 DOL 100% lt-dk brn,<br>grnst-wkst, vf-mnr microxln, tr bitns,<br>tr sh, com med-c free xls, est 3-6%<br>intxl & vugy por, sp o stng, p slow<br>cut. | 1880-1890 DOL 100% lt brn, pt dk<br>brn, grnst-wkst, microxln-vf, tr bitns,<br>rr sh, com free xls, est 3-6% intxl &<br>vugy por, sp o stng, p slow cut. Faint<br>petf odour. | 1890-1900 DOL 100% med-dk<br>brn, grnst-pckst, vf-f xl, bitns, p<br>petf odour est 3-6% intxl por, sp o<br>stng, yel wh stmg cut. | 1900-1910 DOL 100% med-dk brn,<br>grnst-pckst, vf-f xl, bitns, p-fear petf<br>odour est 3-6% intxl por, sp o stng,<br>yel wh stmg cut. | 1910-1920 DOL 100% med-dk brn,<br>grnst-pckst, vf-f xl, bitns, p petf<br>odour est 3-6% intxl por, sp o stng,<br>golden wh stmg cut. | 1920-1930 D<br>brn, grnst-p<br>p-fear petf o<br>por, sp o str |  |  |



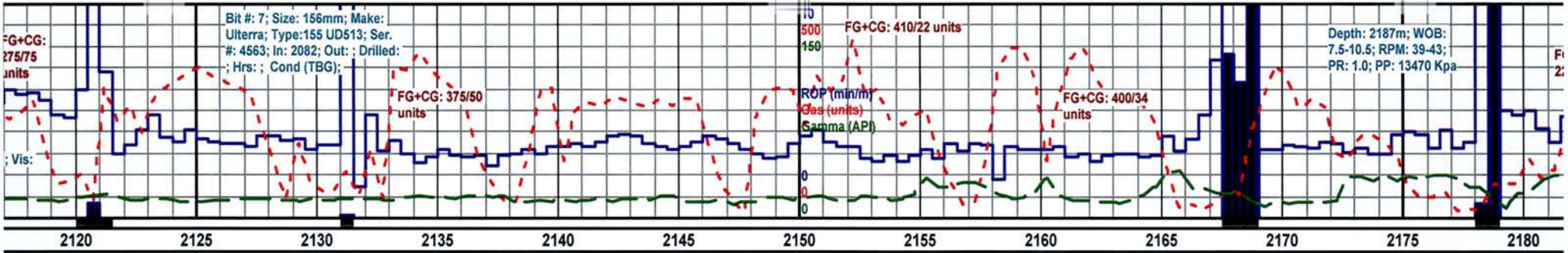


|   |  |      |  |            |   |      |  |      |   |      |   |      |
|---|--|------|--|------------|---|------|--|------|---|------|---|------|
| 1925  | 1930   | 1935 | 1940   | 1945       | 1950  | 1955 | 1960   | 1965 | 1970  | 1975 | 1980  | 1985 |
|   |  |      |  | 1415.2 TVD |   |      |  |      |   |      |   |      |
| OL 100% med-dk ckst, vf-f xl, bitns, dour est 3-6% intxl ig, yel wh stmg cut. | 1930-1940 DOL 100% med-dk brn, grnst-pckst, vf-f xl, tr bitns, rr pyrc, rr sh, p petf odour, est 3-6% intxl por, sp o stng, yel wh stmg cut. |      | 1940-1950 DOL 100% med-dk brn, grnst-pckst, vf-mnr f xl, mnr microxln, tr bitns, rr pyrc, rr sh, est 3-9% intxl & tr vugy por, sp o stng, mky wh g stmg cut, fnt petf odour. |            | 1950-1960 DOL 100% med-dk brn, grnst-pckst, vf-mnr f xl, tr bitns, rr sh, est 3-9% intxl & tr vugy por, sp o stng, mky wh g stmg cut, fnt petf odour. |      | 1960-1970 DOL 100% med-dk brn, grnst-pckst, vf-mnr f xl, tr bitns, est 3-9% intxl & vugy por, even-sp o stng, yel wh g stmg cut, fnt petf odour. |      | 1970-1980 DOL 100% med-dk brn, grnst-pckst, vf-mnr f xl, tr bitns, rr pyrc, est 3-9% intxl & vugy por, even-sp o stng, yel wh g stmg cut, fnt petf odour. |      | 1980-1990 DOL 100% med-dk brn, grnst-pckst, vf-mnr f xl, occsioni free c clr xls, tr bitns, rr pyrc, es 3-9% intxl & vugy por, even-sp o stng, yel wh g stmg cut, fnt petf odour. Traces of o over the shak |      |

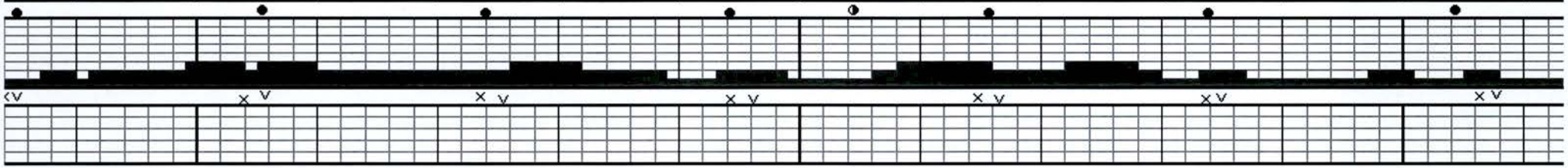
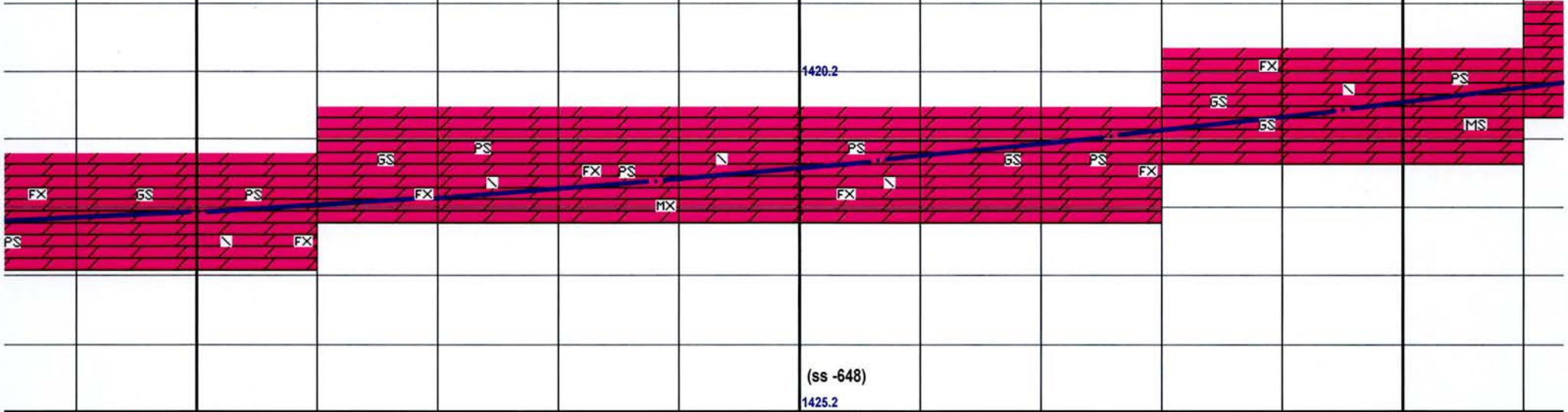




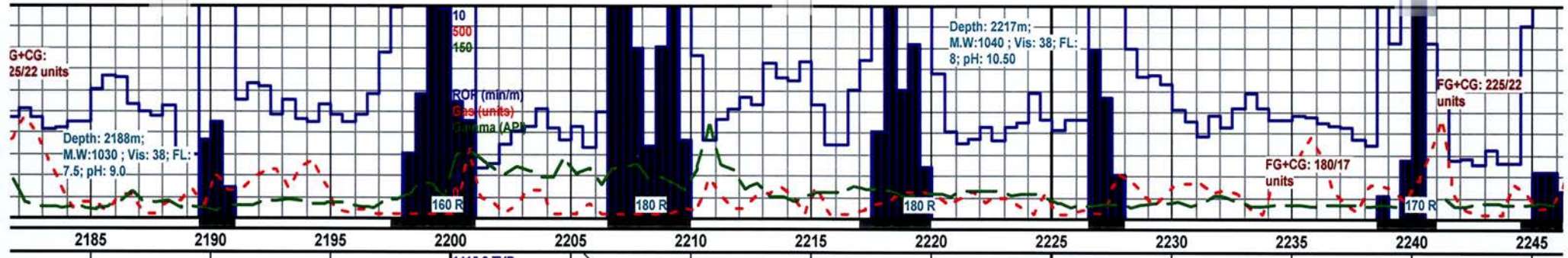




|  |  |   |   |  |  |   |  |  |  |                            |
|--|--|---|---|--|--|---|--|--|--|----------------------------|
|  |  |   |   |  | 1415.2 TVD<br>(SS -638)  |   |  |  |  |                            |
| rm, tr dk f xl, tr por, even over the our. | 2120-2130 DOL 100% med brn, mnr dk brn, gmst-pckst, suc, vf-mnr f xl, tr bitns, est 6-9% intxl & vugy por, even o stng, yel wh g stmg cut, o over the shaker, moderate petf spl odour. | 2130-2140 DOL 100% med brn, lt brn, tr dk brn, gmst-pckst, suc, vf-mnr f xl, tr bitns, rr sh, est 6-9% intxl & vugy por, even o stng, yel wh g stmg cut, moderate petf spl odour. | 2140-2150 DOL 100% med brn, lt brn, mnr dk brn, gmst-pckst, suc, vf-mnr f xl, mnr microxln, rr bitns, est 6-9% intxl & vugy por, even o stng, yel wh g stmg cut, moderate petf spl odour. | 2150-2160 DOL 100% med brn, lt brn, mnr dk brn, gmst-pckst, suc, vf-mnr f xl, trs microxln, rr bitns, est 3-9% intxl & vugy por, even, mnr sp, o stng, yel wh g stmg cut, moderate petf spl odour. | 2160-2170 DOL 100% med brn, lt brn, tr dk brn, gmst-pckst, suc, vf-mnr f xl, rr bitns, est 3-9% intxl & vugy por, even-sp o stng, yel wh g stmg cut. | 2170-2180 DOL 100% med-dk brn, gmst-pckst, suc, vf-f xl, occ free xls, tr pyrc, tr bitns, rr sh, est 3-6% intxl, occ vugy, por, even o stng, yel wh g stmg cut. |  |  |  | 2180 dk brn, mnr vugy cut, |

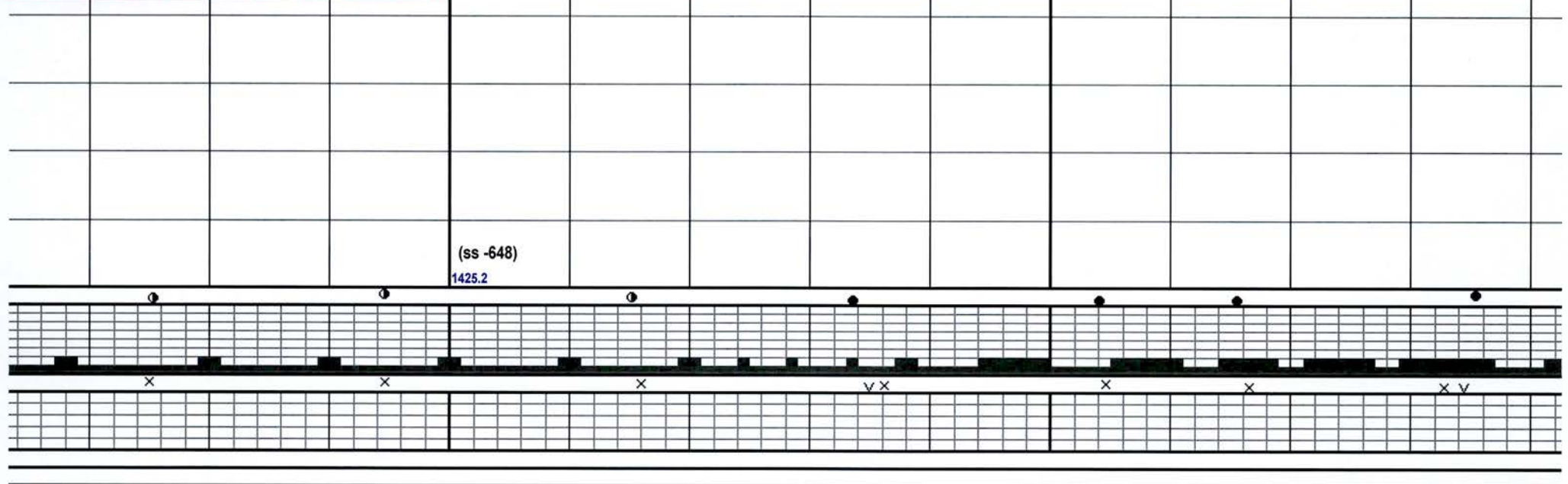
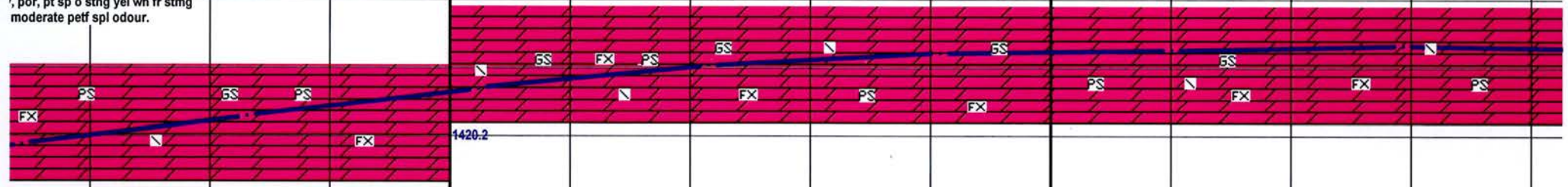


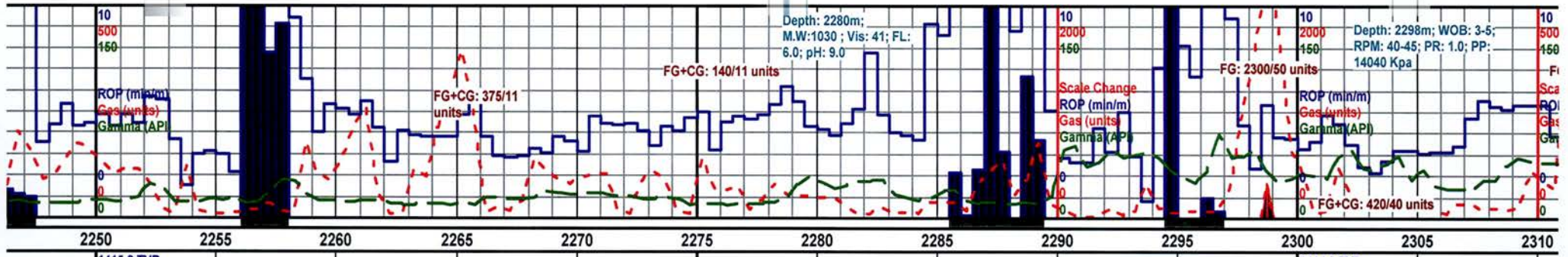




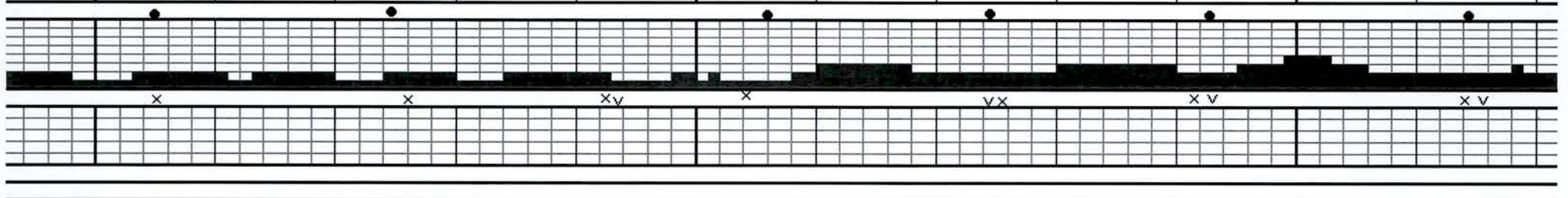
2185 2190 2195 2200 2205 2210 2215 2220 2225 2230 2235 2240 2245  
 160 R 180 R 180 R 170 R  
 FG+CG: 180/17 units  
 FG+CG: 225/22 units  
 1415.2 TVD (SS -638)

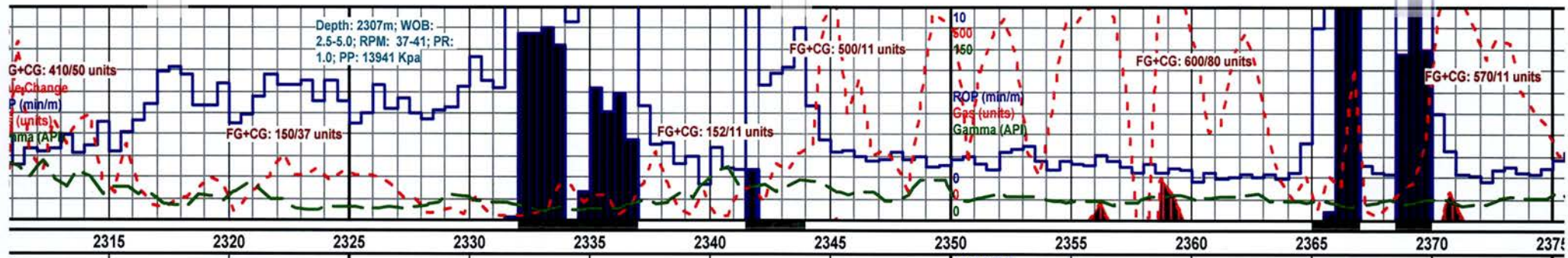
|   |  |  |  |   |   |   |
|---|--|--|--|---|---|---|
| <p>-2190 DOL 100% lt-med brn, occ m, gmst-pckst, suc, vf xl, rr free r sh, sl bitns, est 3-6% intxl, rr vugy, por, pt sp o stng yel wh fr stmg moderate petf spl odour.</p> | <p>2190-2200 DOL 100% lt-med brn, occ dk brn, gmst-pckst, suc, vf xl, rr free xls, rr sh, sl bitns, est 3-6% intxl, rr vugy, por, sp-even o stng yel wh fr stmg cut. mod petf spl odour.</p> | <p>2200-2210 DOL 100% lt-med brn, occ dk brn, gmst-pckst, suc, vf xl, rr free xls, rr sh, sl bitns, est 3-6% intxl, rr vugy, por, sp-even o stng yel wh fr stmg cut.</p> | <p>2210-2220 DOL 100% lt-med brn, occ dk brn, gmst-pckst, suc, vf xl, rr free xls, rr sh, sl bitns, est 3-6% intxl, rr vugy, por, sp-even o stng yel wh fr stmg cut.</p> | <p>2220-2230 DOL 100% med-dk brn, gmst-pckst, suc, vf-trs f xl, mnr sl bitns, est 3-6% intxl, rr vugy, por, even o stng yel wh fr-g stmg cut.</p> | <p>2230-2240 DOL 100% med-dk brn, gmst-pckst, suc, vf-f xl, mnr sl bitns, est 3-6% intxl, rr vugy, por, even o stng, yel wh g stmg cut.</p> | <p>2240-2250 DOL 100% me gmst-pckst, suc, vf-f xl, t occ rexiz &amp; free xls, est 3 vugy, por, even o stng, y cut.</p> |
|---|--|--|--|---|---|---|



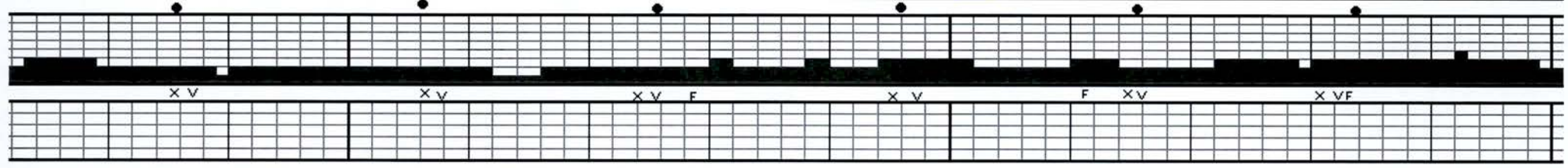
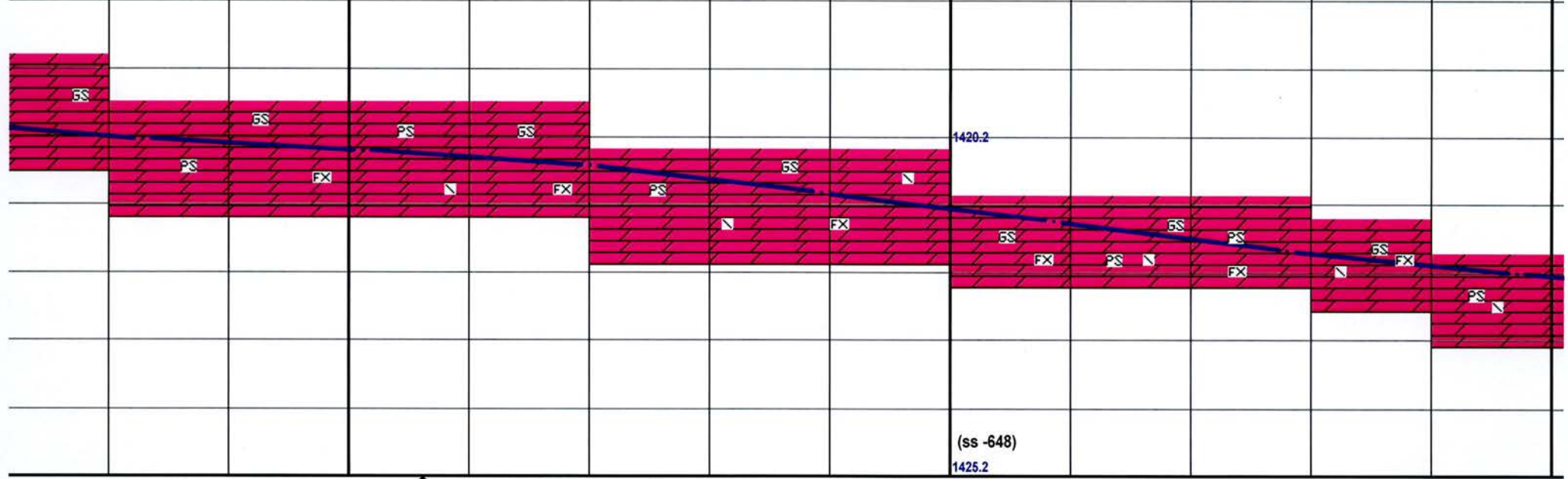


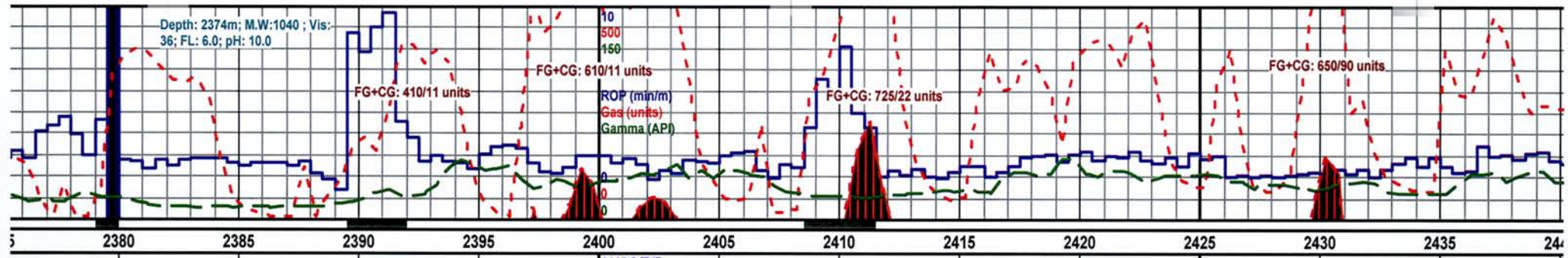
|  |  |  |  |   |   |  |      |      |           |      |      |                 |    |    |    |
|--|--|--|--|---|---|--|------|------|-----------|------|------|-----------------|----|----|----|
| 2250   | 2255   | 2260   | 2265   | 2270  | 2275  | 2280   | 2285 | 2290 | 2295      | 2300 | 2305 | 2310            |    |    |    |
| 1415.2 TVD<br>(SS -638)                              |  |  |  |   |   |  |      |      | (ss -638) |      |      | 1415.2 TVD      |    |    |    |
| med-dk brn, rs sl bitns, -6% intxl, occ al wh g stmg | 2250-2260 DOL 100% med-dk brn, grnst-pckst, suc, vf-f xl, trs bitns, rr sh, est 3-6% intxl, & tr vugy por, even o stng, yel wh g stmg cut. | 2260-2270 DOL 100% med-dk brn, grnst-pckst, suc, vf-f xl, tr bitns, tr free xls, est 3-6% intxl & tr vugy por, even o stng, yel wh g stmg cut. | 2270-2280 DOL 100% med-dk brn, grnst-pckst, suc, vf-f xl, tr bitns, rr pyrc, est 3-6% intxl & tr vugy por, even o stng, yel wh g stmg cut. | 2280-2290 DOL 100% med-dk brn, grnst-pckst, suc, vf-f xl, tr bitns, rr pyrc, occ free xls, est 3-9% intxl & mnv vugy por, even o stng, yel wh g stmg cut. | 2290-2300 DOL 100% med-dk brn, grnst-pckst, suc, vf-f xl, mnv bitns, trs pyrc, com free xls, rr sh, est 6-12% intxl & vugy, pos frac, por, even-sp o stng, yel wh g stmg cut. | 2300-2310 DOL 100% med-dk brn, grnst-pckst, suc, vf-f xl, mnv bitns, abnt med & c free xls, rr sh, est 3-9% intxl & vugy por, even-sp o stng, yel wh g stmg cut. |      |      |           |      |      | 23 gr ab 3-1 st |    |    |    |
| FX   | FX   | FX   | FX   | FX  | N   | PS   | P    | P    | SS        | FX   | II   | PS              | PS | N  | FX |
| SS   | PS   | SS   | SS   | N   | PS  | P  | P    | SS   | P         | FX   | II   | SS              | PS | II | FX |
| 1420.2   |  |  |  |   |   |  |      |      |           |      |      | 1420.2          |    |    |    |
| (ss -648)  |  |  |  |   |   |  |      |      |           |      |      | (ss -648)       |    |    |    |
| 1425.2   |  |  |  |   |   |  |      |      |           |      |      | 1425.2          |    |    |    |





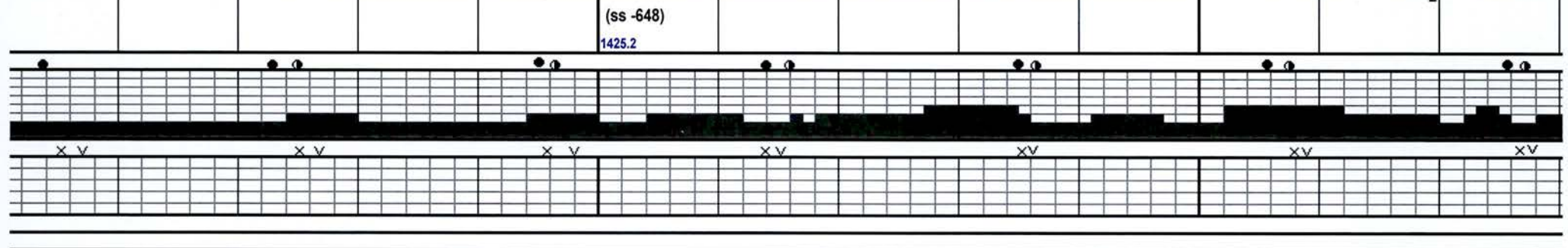
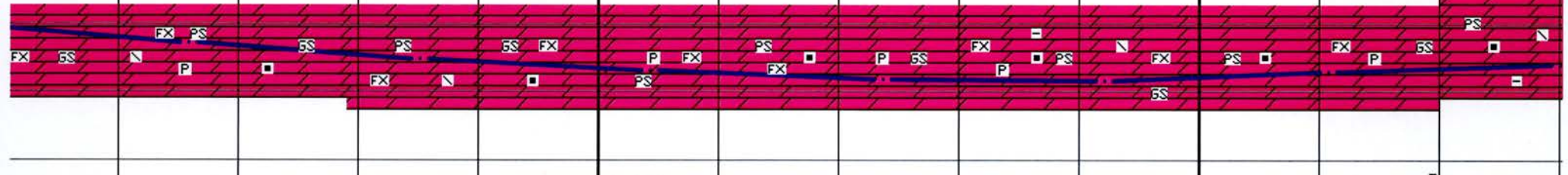
|   |      |      |      |      |      |      |  |      |  |      |  |      |  |  |   |  |   |  |
|---|------|------|------|------|------|------|--|------|--|------|--|------|--|--|---|--|---|--|
| 2315  | 2320 | 2325 | 2330 | 2335 | 2340 | 2345 | 2350   | 2355 | 2360   | 2365 | 2370   | 2375 |  |  |   |  |   |  |
| 10-2320 DOL 100% med-dk brn, grnst-pckst, suc, vf-f xl, mnr bitns, int med & c free xls, rr sh, est 9% intxl & vugy por, even-sp o stng, yel wh g stmg cut. |      |      |      |      |      |      | 2320-2330 DOL 100% med-dk brn, grnst-pckst, suc, vf-f xl, mnr bitns, com free xls, rr sh, est 3-9% intxl & vugy, pos frac, por, even-sp o stng, yel wh g stmg cut. |      | 2330-2340 DOL 100% med-dk brn, grnst-pckst, suc, vf-f xl, mnr bitns, free xls, est 3-6% intxl & mnr vugy, por, even o stng, yel wh g stmg cut. |      | 2340-2350 DOL 100% lt-med brn, grnst-pckst, suc, vf-f xl, bitns, some free xls, est 3-9% intxl & vugy, inferred frac, por, even o stng, yel wh g stmg cut. |      | 2350-2360 DOL 100% lt-med brn, grnst-pckst, suc, vf-f xl, bitns, tr free xls, est 6-9% intxl & vugy, inferred frac, por, even o stng, yel wh g stmg cut. |  | 2360-2370 DOL 100% med brn, grnst-pckst, suc, vf-mnr f xl, tr bitns, tr free xls, rr sh, est 6-9% intxl & vugy, inferred frac, por, even o stng, yel wh g stmg cut, fnt petf odour. |  | 2370-2380 DOL 100% dk brn, grnst-pckst, s bitns, tr free xls, rr sh 6-9% intxl & vugy por wh g stmg cut, fnt pe |  |

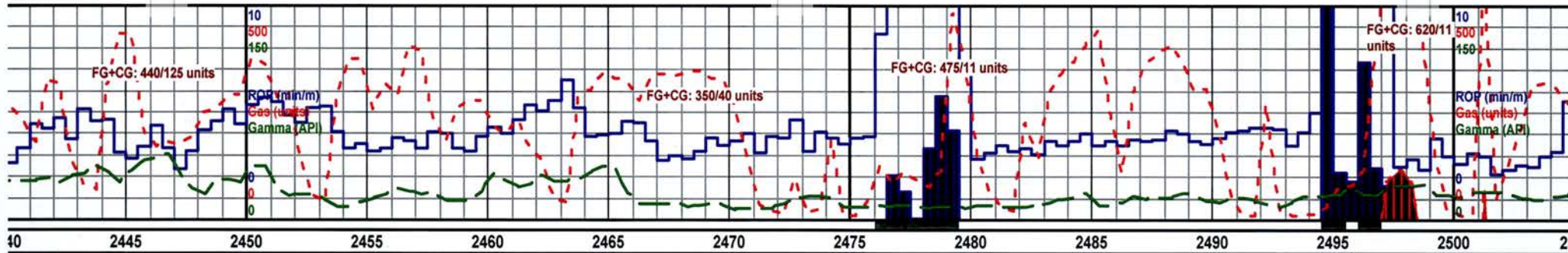




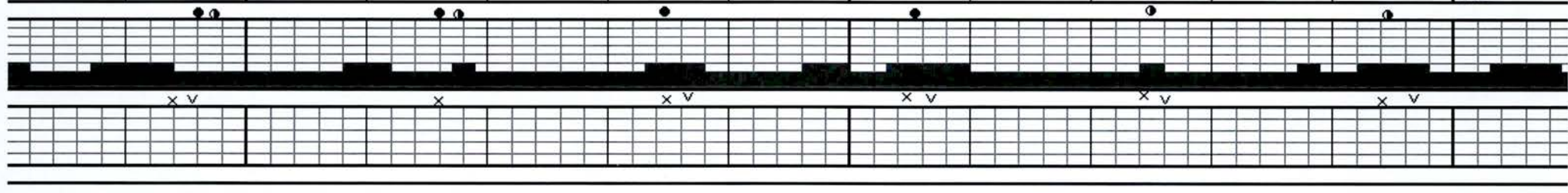
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| 2380-2395 DOL 100% med brn, tr dk brn, grnst-pckst, suc, vf-f xl, occlly bitns, tr free xls, tr pyrc, rr sh, rr coal, est 6-9% intxl & vugy por, even o stng, yel wh g stmg cut, fnt petf odour. | 2395-2405 DOL 100% bf, lt brn, pt med brn, grnst-pckst, suc, vf-mnr f xl, occlly bitns, tr carb sh partings, tr pyrc, est 6-9% intxl & inferred vugy por, lt brn even-mnr sp o stng, mky wh g fast stmg cut, fnt petf odour. | 2405-2415 DOL 100% bf, lt brn, med brn, tr dk brn, grnst-pckst, suc, vf-mnr f xl, occlly bitns, tr carb sh partings, tr pyrc, est 6-12% intxl & inferred vugy por, lt brn even-mnr sp o stng, mky wh g fast stmg cut, fnt petf odour. | 2415-2430 DOL 100% bf, lt -med brn, tr dk brn, grnst-pckst, suc, vf-mnr f xl, occlly bitns, com carb sh partings, tr pyrc, est 6-12% intxl & inferred vugy por, lt brn even-mnr sp o stng, mky wh g stmg cut, fnt petf odour. | 2430-2435 DOL 100% bf, lt -med brn, tr dk brn, grnst-pckst, suc, vf-mnr f xl, occlly bitns, trs carb sh partings, tr pyrc, est 6-12% intxl & inferred vugy por, lt brn even-pt sp o stng, mky wh g slow stmg cut, fnt petf odour. | 2435-2445 DOL 100% dk brn, grnst-pckst, bitns, com carb sh partings, est 6-12% intxl & inferred vugy por, lt brn even-pt sp o stng, mky wh g slow stmg cut, fnt petf odour. |
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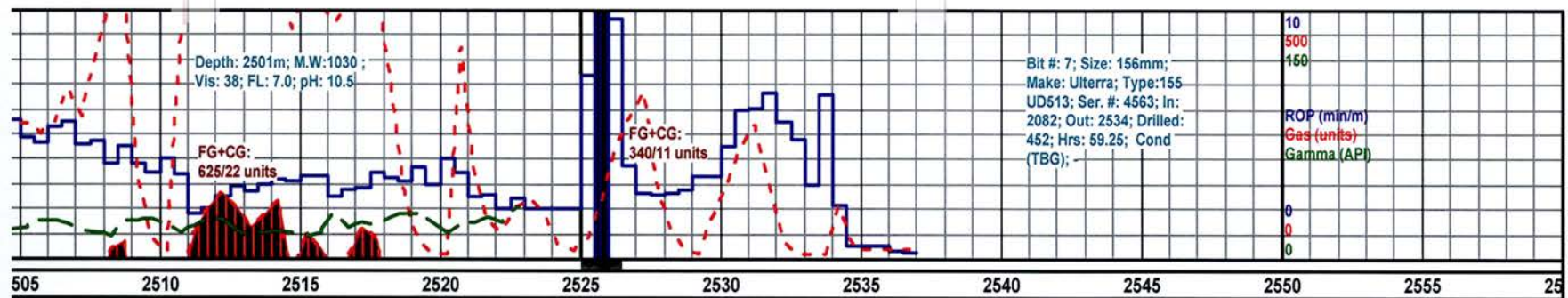
|   |   |  |  |  |  |   |  |                         |
|---|---|--|--|--|--|---|--|-------------------------|
|   | 1415.2 TVD<br>(ss -638)   |  |  |  |  |   |  | 1415.2 TVD<br>(ss -638) |
| lt -med brn, tr suc, vf-f xl, occl partings, trs pyrc, erred vugy por, lt g, mky wh g slow our. | 2445-2455 DOL 100% It-med brn, grnst-mnr pckst, suc, vf-f xl, tr bitns, com carb sh partings, trs pyrc, est 6-12% intxl & vugy por, even-sp o stng, mky wh slow stmg cut, fnt petf odour. | 2455-2465 DOL 100% bf, lt -med brn, grnst-mnr pckst, suc, vf-f xl, tr bitns, tr carb sh partings, trs pyrc, est 6-9% intxl & vugy por, even-sp o stng, mky wh slow stmg cut, fnt petf odour. | 2465-2475 DOL 100% bf, lt -med brn, tr dk brn, grnst-mnr pckst, suc, vf-f xl, tr bitns, tr carb sh partings, trs pyrc, est 6-9% intxl & vugy por, even o stng, mky wh slow stmg cut, fnt petf odour. | 2475-2485 DOL 100% med brn, mnr dk brn, grnst- pckst, suc, vf-f xl, tr bitns, tr carb sh partings, trs pyrc, est 6-9% intxl & vugy por, even-mnr sp o stng, yel wh g stmg cut, fnt petf odour. | 2485-2500 DOL 100% med brn, mnr dk brn, grnst- pckst, suc, vf-f xl, tr bitns, tr carb sh partings, trs pyrc, est 6-9% intxl & vugy por, even-mnr sp o stng, yel wh g stmg cut, fnt petf odour. | 2500-2505 DOL 100% med-lt brn, mnr dk brn, grnst- pckst, suc, vf-f xl, tr bitns, tr carb, sh partings, pyrc, est 6-9% intxl & vugy por, even-sp o stng, p slow cut. |  |                         |
|   | 1420.2  |  |  |  |  |   |  | 1420.2                  |
|   |   |  |  |  |  |   |  |                         |
|   | (ss -648)   |  |  |  |  |   |  | (ss -648)               |
|   | 1425.2  |  |  |  |  |   |  | 1425.2                  |



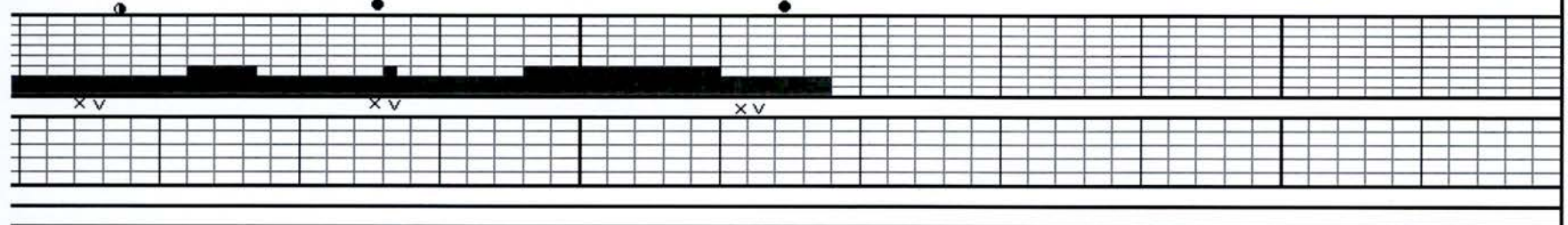
Depth: 2501m; M.W:1030 ;  
Vis: 38; FL: 7.0; pH: 10.5

Bit #: 7; Size: 156mm;  
Make: Ulterra; Type:155  
UD513; Ser. #: 4563; In:  
2082; Out: 2534; Drilled:  
452; Hrs: 59.25; Cond  
(TBG); -

10  
500  
150  
ROP (min/m)  
Gas (units)  
Gamma (API)  
0  
0  
0



|  |   |   |   |   |
|--|---|---|---|---|
| <p>2505-2515 DOL 100% med-lt brn, mnr dk brn, gmst- pckst, suc, vf-f xl, tr bitns, occ carb sh partings, pyrc, est 6-9% intxl &amp; vugy por, even-sp o stng, no visible-p slow cut.</p> | <p>2515-2525 DOL 100% med-lt brn, mnr dk brn, gmst- pckst, suc, vf-mnr f xl, tr bitns, tr carb sh partings, pyrc, est 6-9% intxl &amp; vugy por, even-sp o stng, wh yel g stmg cut.</p> | <p>2525-2534 DOL 100% med-lt brn, mnr dk brn, gmst- pckst, suc, vf-mnr f xl, tr bitns, tr carb, pyrc, est 6-9% intxl &amp; vugy por, even-sp o stng, wh yel g stmg cut, fnt petf odour.</p> | <p>2534-2537 NO SAMPLE. Drilled to 2537m MD during reaming of the hole.</p> | <p>1415.2 TVD<br/>(ss -638)</p>   |
| <p>TOP LOWER SULPHUR POINT AT TOE MD<br/>2530m TVD 1421.22m (SS -644m)</p>   |   |   |   | <p>TD MD: 2537m, ORIGINAL TD MD: 2534m, TVD: 1421.17(SS -643.95m), INCL: 91.00, AZI: 180.50, S: -1187.61m, E: 6.22m</p> |
|  |   |   |   | <p>ORIGINA TD OF 2534m MD WAS REACHED ON MARCH 16, 2011 @ 0215HRS</p> <p>1420.2</p>                                     |
| <p>The well was later drilled to 2537m MD, on March 18, 2011, while reaming the hole prior to running of liner.</p>  |   |   |   | <p>(ss -648)<br/>1425.2</p>   |





**Drilling Fluid Summary**

MARQUIS FLUIDS REPRESENTATIVE: Scott Cooper

Operator: Paramount Resources Contractor Nabors 24  
 Well Name: Para et al Cameron Tool Mike Nugent  
 Location: 2H-03-60/10-11-30  
 Supervisor: Josh W Blinston Province: Northwest Territories  
 Spud Date: 2011/01/20 Field: Cameron Hills  
 Release 2011/03/20 Total 2537  
 Total Days: 59 Well Horizontal

**HOLE**

| Well Profile     | Hole | CASING / LINER | CASIN   | DAYS | MUD SYSTEM    | DENSIT | FLUID LOSS ml/30 | VISCO  | YIELD POINT Pa | LOGG   |
|------------------|------|----------------|---------|------|---------------|--------|------------------|--------|----------------|--------|
| Surface          | 311  | 244/226        | 360/0   | 6    | Amine Polymer | 1000-  |                  | 35-60  |                |        |
| 1st Intermediate | 222  |                |         | 4    | Floc P.H.P.A  | 1000-  |                  | 28-30  |                |        |
| 2nd Intermediate | 222  | 177/161        | 1532/11 | 28   | Gel P.H.P.A   | 1080-  | 6-8              | 40-130 | 3-28           | 130/2  |
| Main             | 156  |                | 2534/15 | 12   | Low Density   | 1010-  | 6-8              | 36-45  | 2/8.6          | 45/8.6 |

**SOLIDS CONTROL**

|  |  |  |  |  |  |  |  |  |  |  |
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**SURVEYS:**

**DEPTH AT REPORT TIME:**

| DEPTH | INC.  | AZIMU  | DEPTH | INC. | AZIMU  | REPOR | DEPTH | REPOR | DEPTH | REPORT # | DEPTH | REPORT # | DEPTH |
|-------|-------|--------|-------|------|--------|-------|-------|-------|-------|----------|-------|----------|-------|
| 34    | 0     | 0      | 1944  | 88.3 | 179.1  | 1     | 0     | 23    | 1334  | 45       | 2534  |          |       |
| 91    | 1.1   |        | 1954  | 88.9 | 178.9  | 2     | 84    | 24    | 1360  | 46       | 2534  |          |       |
| 245   | 1.1   |        | 2057  | 89.2 | 177    | 3     | 148   | 25    | 1402  | 47       | 2534  |          |       |
| 283   | 0.91  |        | 2067  | 89.6 | 176.9  | 4     | 336   | 26    | 1445  |          |       |          |       |
| 445   | 1     |        | 2162  | 92.3 | 178.1  | 5     | 361   | 27    | 1480  |          |       |          |       |
| 635   | 1.5   |        | 2172  | 92.3 | 177.7  | 6     | 361   | 28    | 1527  |          |       |          |       |
| 1036  | 0.5   |        | 2210  | 91.7 | 179.7  | 7     | 407   | 29    | 1534  |          |       |          |       |
| 1078  | 0.5   |        | 2220  | 90.3 | 179.5  | 8     | 457   | 30    | 1534  |          |       |          |       |
| 1232  | 1.2   | 21.5   | 2278  | 89.9 | 182.1  | 9     | 609   | 31    | 1635  |          |       |          |       |
| 1299  | 18    | 169.8  | 2301  | 88.8 | 182.1  | 10    | 669   | 32    | 1729  |          |       |          |       |
| 1308  | 22.5  | 169.1  | 2363  | 87.8 | 183.2  | 11    | 888   | 33    | 1820  |          |       |          |       |
| 1355  | 31.3  | 177.3  | 2373  | 88   | 182.5  | 12    | 945   | 34    | 1880  |          |       |          |       |
| 1382  | 41.5  | 177.3  | 2449  | 90.8 | 180.8  | 13    | 1114  | 35    | 1975  |          |       |          |       |
| 1344  | 31.8  | 165.9  | 2458  | 91.3 | 180.4  | 14    | 1146  | 36    | 2053  |          |       |          |       |
| 1354  | 35.5  | 165.2  | 2506  | 90.8 | 180.06 | 15    | 1190  | 37    | 2080  |          |       |          |       |
| 1364  | 39.3  | 165.67 | 2516  | 90.9 | 180.2  | 16    | 1254  | 38    | 2119  |          |       |          |       |
| 1392  | 50    | 167.9  | 2519  | 91   | 180.5  | 17    | 1328  | 39    | 2189  |          |       |          |       |
| 1411  | 55.33 | 171.6  |       |      |        | 18    | 1333  | 40    | 2237  |          |       |          |       |
| 1420  | 58.3  | 172.8  |       |      |        | 19    | 1378  | 41    | 2306  |          |       |          |       |
| 1449  | 67.1  | 175.7  |       |      |        | 20    | 1403  | 42    | 2396  |          |       |          |       |
| 1458  | 70.2  | 175.6  |       |      |        | 21    | 1424  | 43    | 2477  |          |       |          |       |
| 1496  | 78    | 179.9  |       |      |        | 22    | 1424  | 44    | 2534  |          |       |          |       |
| 1506  | 80.2  | 180.7  |       |      |        |       |       |       |       |          |       |          |       |

**BRIEF DESCRIPTION OF HOLE PROBLEMS:**

Reactive clay's on surface hole. Reactive clay zone at 1120-1130m.  
 Rig sinking when on intermediate hole at 1333m, ran 2 bridge plugs in surface casing and moved rig off to drill piles on location. Twisted off at dump sub on motor at 1424m. Fished for motor with no results. Cemented fish in hole. Foaming Problem at 1330m, displaced 3/4 of mud system with surface mud to regain control. Tight hole on intermediate section at 1503-1534m. No Cement returns on intermediate section. Washed tight spots at 1622, 1725-1981m on main hole. (Dog Legs). Difficulty getting weight to bit from 2200m, mixed EZ Drill to aid in sliding.

**PRODUCT USAGE:**

TRUCKING COMPANY: Rig Movers

LOCATION: 2H-03-60/10-11-30

**MATERIAL COSTS ESTIMATED VS. ACTUAL**

| Product Name          | Cost    | Size  | Surface Hole |        | Intermediate Hole |        | Main Hole |        | Total Used |        | Total Cost | Est. Cost  | Difference  |
|-----------------------|---------|-------|--------------|--------|-------------------|--------|-----------|--------|------------|--------|------------|------------|-------------|
|                       |         |       | Estimate     | Actual | Estimate          | Actual | Estimate  | Actual | Estimated  | Actual |            |            |             |
| Alkapam A-1103D       | \$227.0 | 25    |              |        | 7                 | 1      | 7         | 7      | 7          | 8      | \$1,816.00 | \$1,589.00 | \$227.00    |
| BARITE 41             | \$22.31 | 40    |              |        |                   | 269    | 20        | 20     | 0          | 289    | \$6,447.59 | \$0.00     | \$6,447.59  |
| Bentonite (40 kg)     | \$13.05 | 40    | 15           |        |                   | 141    | 36        | -7     | 51         | 134    | \$1,748.70 | \$665.55   | \$1,083.15  |
| Bicarbonate of Soda   | \$29.59 | 25    |              | 2      |                   | 1      |           |        | 0          | 3      | \$88.77    | \$0.00     | \$88.77     |
| Calcium Carbonate 0   | \$9.80  | 25    |              |        |                   |        |           | 112    | 0          | 112    | \$1,097.60 | \$0.00     | \$1,097.60  |
| Calcium Carbonate     | \$9.80  | 25    |              |        |                   | 67     |           | 45     | 0          | 112    | \$1,097.60 | \$0.00     | \$1,097.60  |
| Caustic Soda (22.68)  | \$41.79 | 22.68 | 3            |        |                   | 22     | 8         | 6      | 11         | 28     | \$1,170.12 | \$459.69   | \$710.43    |
| Celloflake (11.34 Kg) | \$71.98 | 11.34 |              |        |                   | 3      |           |        | 0          | 3      | \$215.94   | \$0.00     | \$215.94    |
| Defoamer (20 L)       | \$210.3 | 20    | 7            | 2      |                   | 40     |           | 6      | 7          | 48     | #####      | \$1,472.38 | \$8,623.94  |
| Desco CF (11.34 kg)   | \$80.22 | 11.34 |              | 2      |                   | 9      | 5         | 2      | 5          | 13     | \$1,042.86 | \$401.10   | \$641.76    |
| Detergent L (20 L)    | \$61.30 | 20    | 3            | 10     |                   | 4      |           |        | 3          | 14     | \$858.20   | \$183.90   | \$674.30    |
| Drispac Plus Regular  | \$244.6 | 22.68 |              |        |                   | 25     |           | 16     | 0          | 41     | #####      | \$0.00     | \$10,028.60 |
| Envirofloc            | \$40.82 | 36.36 |              |        | 30                | 37     |           | 40     | 30         | 77     | \$3,143.14 | \$1,224.60 | \$1,918.54  |
| EZ Drill (208 L)      | \$1,922 | 208   |              |        |                   |        |           | 5      | 0          | 5      | \$9,614.00 | \$0.00     | \$9,614.00  |
| Hyperdrill AF 247 RD  | \$227.4 | 25    | 7            | 6      | 2                 | 4      |           |        | 9          | 10     | \$2,274.50 | \$2,047.05 | \$227.45    |
| Inhibidril (20 L)     | \$166.3 | 20    | 11           | 19     |                   |        |           |        | 11         | 19     | \$3,159.70 | \$1,829.30 | \$1,330.40  |
| Kelzan XCD Polymer    | \$498.7 | 25    | 4            | 7      |                   | 26     | 13        | 10     | 17         | 43     | #####      | \$8,478.75 | \$12,967.50 |
| Kwik Seal Medium      | \$33.90 | 18.14 |              |        |                   | 5      |           |        | 0          | 5      | \$169.50   | \$0.00     | \$169.50    |
| Lignite (22.68 kg)    | \$15.72 | 22.68 |              |        |                   | 46     | 4         |        | 4          | 46     | \$723.12   | \$62.88    | \$660.24    |
| Sawdust (7.3 kg)      | \$6.64  | 7.3   | 100          | 60     |                   | 230    |           | 85     | 100        | 375    | \$2,490.00 | \$664.00   | \$1,826.00  |
| Soda Ash (25kg)       | \$19.57 | 25    |              |        |                   | 11     | 12        | 2      | 12         | 13     | \$254.41   | \$234.84   | \$19.57     |
| Stardril (22.68 kg)   | \$146.0 | 22.68 |              |        |                   |        | 16        | 46     | 16         | 46     | \$6,719.22 | \$2,337.12 | \$4,382.10  |
| TKPP (25 kg)          | \$152.7 | 25    |              | 6      |                   | 6      |           |        | 0          | 12     | \$1,833.24 | \$0.00     | \$1,833.24  |
| Ultra Flocc L (20 L)  | \$148.5 | 20    |              |        |                   | 66     |           | -9     | 0          | 57     | \$8,469.05 | \$0.00     | \$8,469.05  |

|   |             |              |                   |             |
|---|-------------|--------------|-------------------|-------------|
| <b>SURFACE HOLE:</b>                          | Estimated   | \$8,057.85   | <b>TECHNICAL</b>  | \$47,500.00 |
|   | Actual      | \$10,583.97  | Number of         | 50          |
| <b>TOP HOLE:</b>                              | Estimated   | \$18,268.50  |                   |             |
|   | Actual      | \$54,131.36  |                   |             |
| <b>MAIN HOLE:</b>                             | Estimated   | \$13,102.11  | <b>TRUCKING</b>   |             |
|   | Actual      | \$31,289.11  | Trucking charges: |             |
|   | Cost:       |              |                   |             |
| <b>TOTAL PRODUCTS COST:</b>                   | Estimated   | \$39,428.46  | Pallets:          | \$0.00      |
|   | Cost:       |              | Shrinkwraps:      |             |
|   | Actual      | \$96,004.44  | Total             | \$47,500.00 |
|   | Cost:       |              |                   |             |
|   | Difference: | \$56,575.98  |                   |             |
| <b>TOTAL DRILLING FLUIDS COST (PRODUCTS):</b> |             | \$143,504.44 |                   |             |



**INTERVAL DISCUSSIONS:**

(Discuss Drilling Fluids related issues pertaining to problems, solutions and recommendations)

**Surface Hole Discussion:**

Surface to 360m:

Drilled 311mm surface hole with no trouble, controlled sticky cuttings with detergent and TKPP as needed. Increased viscosity to 55s/l with Kelzan XCD for T.D (12Pa yield point), wiper tripped and hit bridge Fr/ 202-214m. Wash in from 300m to bottom (361m). Pulled out to run casing with no problems, ran 244.5mm casing to 93m and had to head up and circulate joints 7 and 8 in due to hanging up, headed up for joints 11 and 12 and had to circulate down. The rest ran in with no troubles to casing point of 361m. Landed casing at 360m and cemented with 2m<sup>3</sup> of good returns.

**Intermediate/Main Hole Discussion :**

Upper Intermediate to 1100m:

Drilled out cement, float and shoe. Flocculated water drilled to 860m, wiper tripped and ream from 846-860m. Drilled 222mm hole ahead to 1050m and stopped all floc additions and added soda ash ready for mud up. Drilled ahead to 1114m and pulled bit due to slow R.O.P. Ran in with bit #3 with no problems. Jacked and levelled rig at 1114m. Drilled ahead to 1120m and drilled into a reactive clay zone, fluid was dehydrated - increased water and mixed 2 sacks of Desco to resolve situation. Hole was tight, could not circulate, worked pipe out and regained circulation. Work tight hole from 1134-1112m for .75, Fr/1145-1125m for 2 hours and again Fr/ 1130-1154m in 1.25 hours. A reactive clay zone is present in this spot, dehydrated drilling fluid. Drilled ahead to K.O.P and pulled out, pulled 6daN over at 1150-1120m. Ran in with Directional assembly and reamed from 1100-1150m. Drilled ahead to 1333m and pulled out of hole to jack rig. Ran 2 bridges plugs into surface casing and pulled rig off location to drill piles on lease due to rig sinking problem. Moved rig back on location and drilled ahead to 1424m and bentonite content increased to 185kg/m<sup>3</sup>, treated with water and desco. On trip out at 1424m left motor assembly in hole from dump sub down. Fish and mill fish with no success. Ran 150m cement plug. Ran in and drilled cement, when drilling cement mud aerated and pump pressure was down to 800kpa. Displaced hole with surface mud and stripped aerated mud. Drilled 222mm hole ahead to T.D with no problems. Pulled tight at 1480m and pumped out 9 singles. Laid down directional tools, ream and clean from 1330-1534m on wiper trip. Circulate on bottom, pulled out to run casing, and pull tight at 1410m. Ran back to bottom, increased viscosity to 130s/l and yield point to 28P.a. Pulled out to run casing again and pulled tight from 1390-1350m, pulled 20-5daN over string weight. Ran casing and washed in from 1320m to bottom. Cemented with returns throughout cementing operations but got no cement returns.

**Main Hole Discussion :**

Main to 2534m:

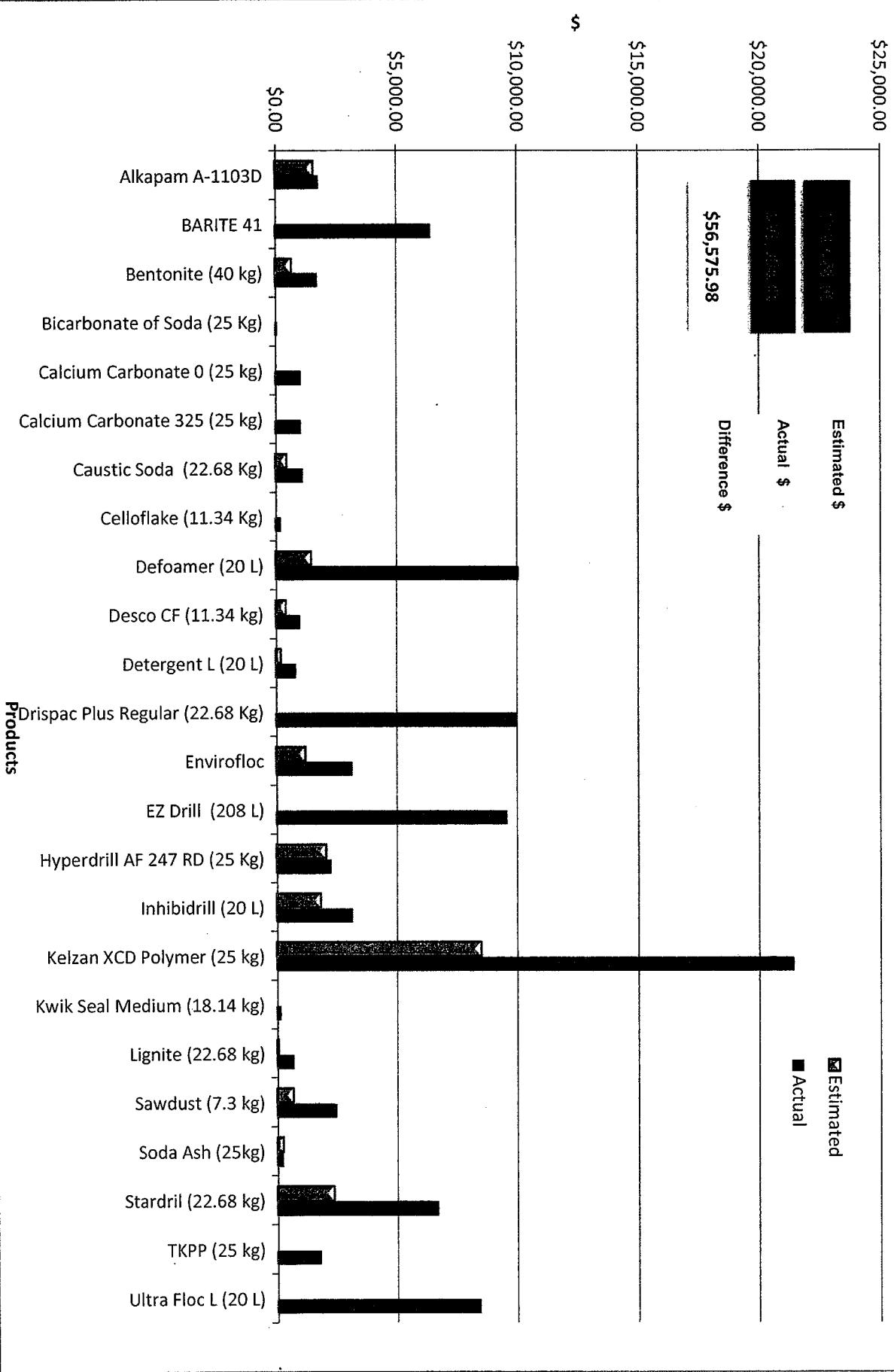
Drilled out float and shoe with water and blended water with prebuilt low-density polymer system. Drilled 156mm hole to 2082m, tripped out of hole for mud motor and bit. On trip in reamed dog legs at 1622m, washed in from 1725-1981m in 5.25 hours and again at 2006-2082m in 2.25 hours. Bit was 2mm under gauge. Drilled ahead with sliding problems, add EZ Drill as a slide assist and coat hole. The EZ Drill help sliding decreasing weight on bit from 30-35daN to 17-22daN. Drilled to T.D of 2534m. Pulled out of hole with no problems and picked up reamer, reamed to T.D with 2daN on bit with no problems and increased viscosity from 38-40s/l to 45s/l for running liner. Ran in liner, packers plus assembly with no problems, and set packers. Maintained 38-40s/l viscosity throughout horizontal section with excellent hole cleaning and increased to 45s/l for running liner. Y.P was 3-6P.a throughout section and increased to 8Pa for running liner.

P.h was 9.5-10.5 for section. Density was 1010-1040kg/m<sup>3</sup> throughout section.

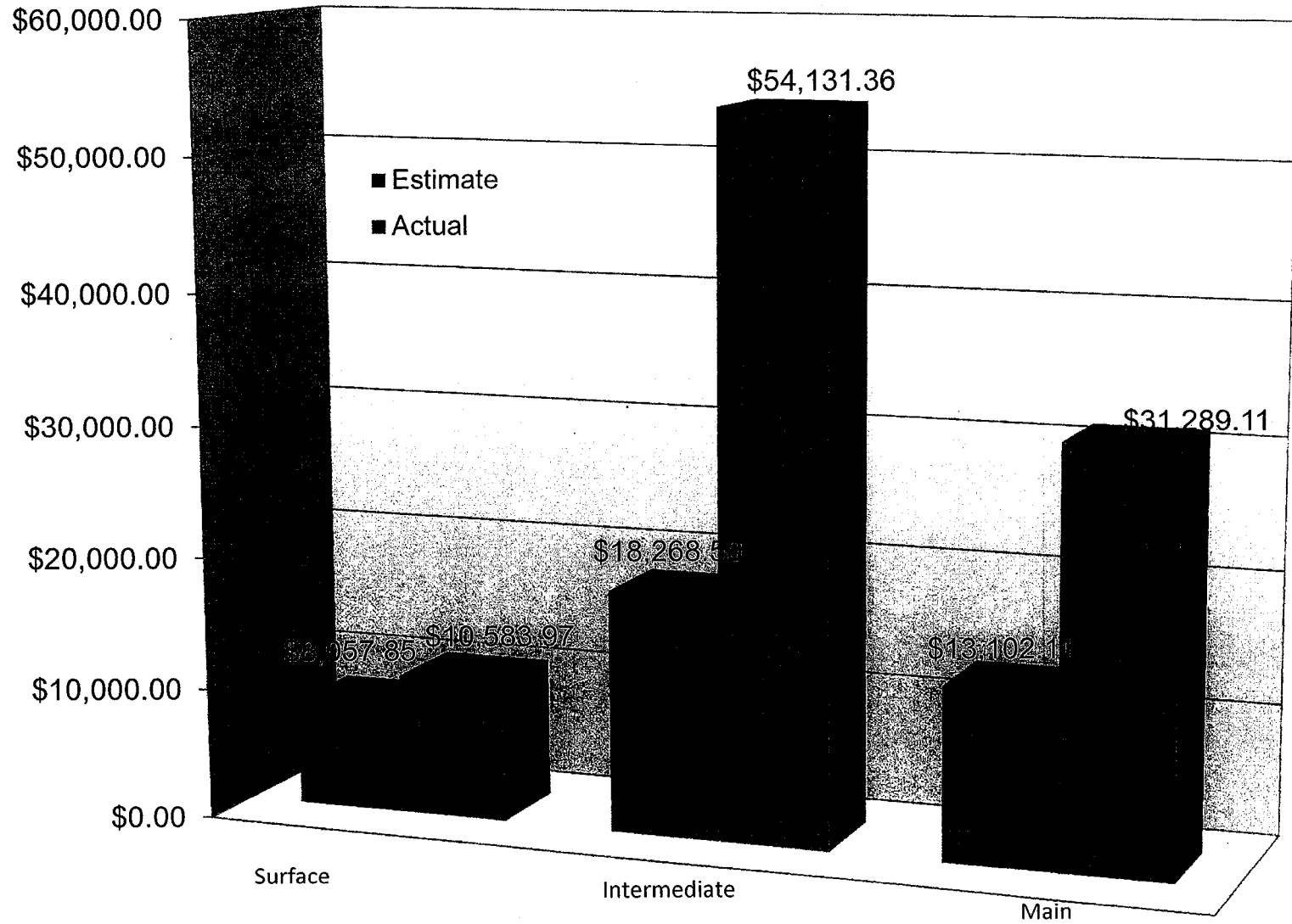
Fluid loss was below 8cc throughout section.

M-A ENERGY GROUP.

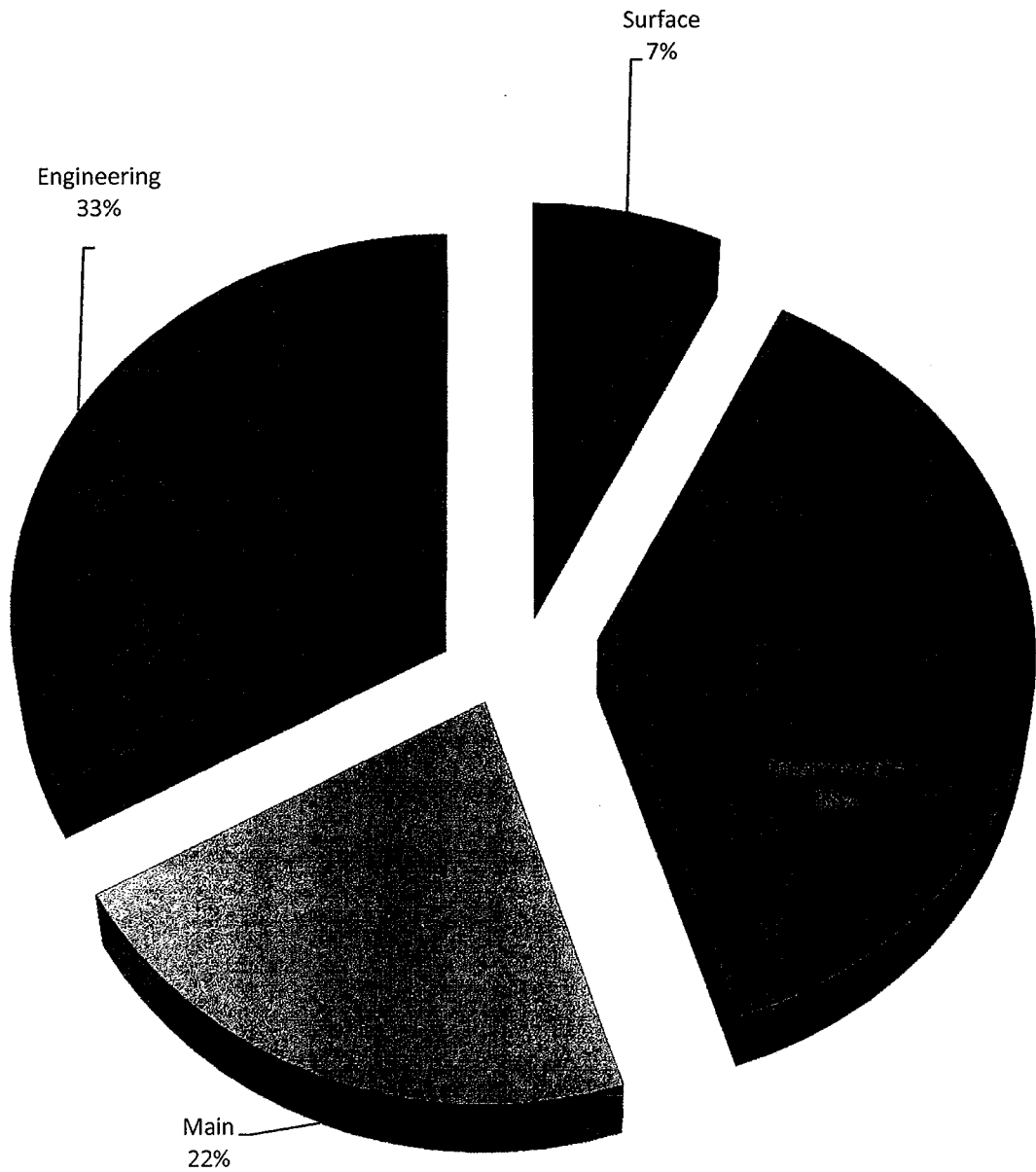
# Paramount cameron- Products Usage Comparison



# Actual vs. Estimated Cost by Interval



**Interval Cost Breakdown  
Mud Cost with Engineering  
\$143,504.44**





# Directional Survey

**Paramount**  
resources ltd.

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UVW<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

|                                |                   |  |                                |
|--------------------------------|-------------------|--|--------------------------------|
| Wellbore Name<br>Original Hole | Parent Wellbore   | Kick Off Depth (mKB)<br>1,270.00                         | Vertical Section Direction (*) |
| Date<br>1/21/2011              | Definitive?<br>No | Description<br>Directional Survey from Tour Sheet Import | Proposed?<br>No                |
| MD Tie In (mKB)                | TVDTie In (mKB)   | Inclination Tie In (*)                                   | Azimuth Tie In (*)             |
|                                |                   |  | NSTie In (m)                   |
|                                |                   |  | EWtie In (m)                   |

| Survey Data |          |          |         |           |        |        |        |             |           |                |
|-------------|----------|----------|---------|-----------|--------|--------|--------|-------------|-----------|----------------|
| Date        | MD (mKB) | Incl (*) | Azm (*) | TVD (mKB) | VS (m) | NS (m) | EW (m) | DLS (*/30m) | Method    | Survey Company |
| 1/21/2011   | 34.00    | 0.00     | 0.00    | 34.00     | 0.00   | 0.00   | 0.00   | 0.00        | TELEDRIFT |                |
| 1/21/2011   | 35.77    | 0.00     | 0.00    | 35.77     | 0.00   | 0.00   | 0.00   | 0.00        | TELEDRIFT |                |
| 1/21/2011   | 91.00    | 1.10     | 0.00    | 91.00     | -0.53  | 0.53   | 0.00   | 0.60        | WIRELINE  |                |
| 1/21/2011   | 92.77    | 1.10     | 0.00    | 92.77     | -0.56  | 0.56   | 0.00   | 0.00        | WIRELINE  |                |
| 1/21/2011   | 122.00   | 1.10     | 0.00    | 121.99    | -1.13  | 1.13   | 0.00   | 0.00        | WIRELINE  |                |
| 1/21/2011   | 123.77   | 1.10     | 0.00    | 123.76    | -1.16  | 1.16   | 0.00   | 0.00        | WIRELINE  |                |
| 1/21/2011   | 151.00   | 1.10     | 0.00    | 150.99    | -1.68  | 1.68   | 0.00   | 0.00        | WIRELINE  |                |
| 1/21/2011   | 152.77   | 1.10     | 0.00    | 152.76    | -1.72  | 1.72   | 0.00   | 0.00        | WIRELINE  |                |
| 1/21/2011   | 179.00   | 1.10     | 0.00    | 178.98    | -2.22  | 2.22   | 0.00   | 0.00        | WIRELINE  |                |
| 1/21/2011   | 180.77   | 1.10     | 0.00    | 180.75    | -2.25  | 2.25   | 0.00   | 0.00        | WIRELINE  |                |
| 1/22/2011   | 245.00   | 1.10     | 0.00    | 244.97    | -3.49  | 3.49   | 0.00   | 0.00        | WIRELINE  |                |
| 1/22/2011   | 283.00   | 0.91     | 0.00    | 282.96    | -4.15  | 4.15   | 0.00   | 0.15        | WIRELINE  |                |
| 1/25/2011   | 398.00   | 0.50     | 0.00    | 397.95    | -5.57  | 5.57   | 0.00   | 0.11        | TELEDRIFT |                |
| 1/25/2011   | 411.00   | 0.50     | 0.00    | 410.95    | -5.68  | 5.68   | 0.00   | 0.00        | TELEDRIFT |                |
| 1/25/2011   | 458.00   | 1.00     | 0.00    | 457.95    | -6.30  | 6.30   | 0.00   | 0.32        | TELEDRIFT |                |
| 1/25/2011   | 495.00   | 1.50     | 0.00    | 494.94    | -7.10  | 7.10   | 0.00   | 0.41        | TELEDRIFT |                |
| 1/26/2011   | 544.00   | 1.00     | 0.00    | 543.93    | -8.17  | 8.17   | 0.00   | 0.31        | TELEDRIFT |                |
| 1/26/2011   | 591.00   | 2.00     | 0.00    | 590.91    | -9.40  | 9.40   | 0.00   | 0.64        | TELEDRIFT |                |
| 1/26/2011   | 597.00   | 2.00     | 0.00    | 596.91    | -9.61  | 9.61   | 0.00   | 0.00        | TELEDRIFT |                |
| 1/26/2011   | 616.00   | 2.00     | 0.00    | 615.90    | -10.27 | 10.28  | 0.00   | 0.00        | TELEDRIFT |                |
| 1/26/2011   | 635.00   | 1.50     | 0.00    | 634.89    | -10.85 | 10.86  | 0.00   | 0.79        | TELEDRIFT |                |
| 1/26/2011   | 702.00   | 2.00     | 0.00    | 701.86    | -12.90 | 12.90  | 0.00   | 0.22        | TELEDRIFT |                |
| 1/26/2011   | 754.00   | 0.50     | 0.00    | 753.84    | -14.04 | 14.04  | 0.00   | 0.87        | TELEDRIFT |                |
| 1/27/2011   | 801.00   | 0.50     | 0.00    | 800.84    | -14.45 | 14.45  | 0.00   | 0.00        | TELEDRIFT |                |
| 1/27/2011   | 849.00   | 1.00     | 0.00    | 848.84    | -15.07 | 15.07  | 0.00   | 0.31        | TELEDRIFT |                |
| 1/27/2011   | 856.00   | 0.50     | 0.00    | 855.84    | -15.17 | 15.17  | 0.00   | 2.14        | TELEDRIFT |                |
| 1/27/2011   | 945.00   | 0.50     | 0.00    | 944.83    | -15.94 | 15.94  | 0.00   | 0.00        | TELEDRIFT |                |
| 1/28/2011   | 980.00   | 1.00     | 0.00    | 979.83    | -16.40 | 16.40  | 0.00   | 0.43        | TELEDRIFT |                |
| 1/28/2011   | 1,036.00 | 0.50     | 0.00    | 1,035.82  | -17.13 | 17.13  | 0.00   | 0.27        | TELEDRIFT |                |



# Directional Survey

**Paramount**  
resources ltd.

Well Name: **PARA ET AL CAMERON 2H-03 HZ**

|                                 |  |                                |                                       |                              |                                     |
|---------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UW<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20  | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

| Survey Data |          |          |         |           |        |        |        |             |             |                |
|-------------|----------|----------|---------|-----------|--------|--------|--------|-------------|-------------|----------------|
| Date        | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | VS (m) | NS (m) | EW (m) | DLS (°/30m) | Method      | Survey Company |
| 1/28/2011   | 1,078.00 | 0.50     | 0.00    | 1,077.82  | -17.50 | 17.50  | 0.00   | 0.00        | TELEDRIFT   |                |
| 1/30/2011   | 1,136.00 | 0.50     | 0.00    | 1,135.82  | -18.01 | 18.01  | 0.00   | 0.00        | TELEDRIFT   |                |
| 1/30/2011   | 1,160.00 | 0.50     | 0.00    | 1,159.82  | -18.21 | 18.22  | 0.00   | 0.00        | TELEDRIFT   |                |
| 1/30/2011   | 1,209.88 | 0.50     | 0.00    | 1,209.70  | -18.65 | 18.65  | 0.00   | 0.00        | TELEDRIFT   |                |
| 2/1/2011    | 1,232.45 | 1.20     | 21.50   | 1,232.26  | -18.97 | 18.97  | 0.09   | 1.01        | DIRECTION A |                |
| 2/2/2011    | 1,270.88 | 3.10     | 184.80  | 1,270.68  | -18.31 | 18.31  | 0.15   | 3.33        | DIRECTION A |                |
| 2/2/2011    | 1,280.49 | 8.10     | 174.86  | 1,280.24  | -17.37 | 17.37  | 0.19   | 15.84       | DIRECTION A |                |
| 2/2/2011    | 1,289.00 | 12.80    | 174.10  | 1,288.61  | -15.83 | 15.84  | 0.34   | 16.58       | DIRECTION A |                |
| 2/2/2011    | 1,299.00 | 18.00    | 169.80  | 1,298.25  | -13.20 | 13.21  | 0.72   | 15.96       | DIRECTION A |                |
| 2/2/2011    | 1,307.00 | 22.50    | 169.10  | 1,305.75  | -10.48 | 10.49  | 1.23   | 16.90       | DIRECTION A |                |
| 2/2/2011    | 1,318.00 | 26.40    | 169.20  | 1,315.76  | -6.00  | 6.02   | 2.09   | 10.64       | DIRECTION A |                |
| 2/21/2011   | 1,326.35 | 27.90    | 169.90  | 1,323.19  | -2.24  | 2.28   | 2.78   | 5.51        | DIRECTION A |                |
| 2/21/2011   | 1,335.99 | 27.90    | 171.00  | 1,331.71  | 2.22   | -2.17  | 3.53   | 1.60        | DIRECTION A |                |
| 3/2/2011    | 1,344.56 | 31.80    | 165.90  | 1,339.14  | 6.40   | -6.35  | 4.39   | 16.28       | DIRECTION A |                |
| 2/21/2011   | 1,345.61 | 28.90    | 174.00  | 1,340.05  | 6.92   | -6.87  | 4.49   | 143.16      | DIRECTION A |                |
| 3/2/2011    | 1,354.16 | 35.50    | 165.20  | 1,347.28  | 11.39  | -11.33 | 5.34   | 28.36       | DIRECTION A |                |
| 2/21/2011   | 1,355.01 | 31.30    | 177.30  | 1,347.99  | 11.86  | -11.79 | 5.41   | 277.31      | DIRECTION A |                |
| 2/21/2011   | 1,364.21 | 34.30    | 177.60  | 1,355.73  | 16.84  | -16.77 | 5.63   | 9.80        | DIRECTION A |                |
| 3/2/2011    | 1,364.77 | 39.30    | 165.30  | 1,356.18  | 17.17  | -17.10 | 5.68   | 475.96      | DIRECTION A |                |
| 3/2/2011    | 1,373.38 | 42.20    | 165.30  | 1,362.70  | 22.62  | -22.53 | 7.11   | 10.10       | DIRECTION A |                |
| 2/21/2011   | 1,373.40 | 37.60    | 177.80  | 1,362.71  | 22.63  | -22.54 | 7.11   | 13838.86    | DIRECTION A |                |
| 3/2/2011    | 1,382.48 | 46.50    | 166.70  | 1,369.46  | 28.64  | -28.54 | 7.98   | 38.23       | DIRECTION A |                |
| 2/21/2011   | 1,382.59 | 41.50    | 177.30  | 1,369.54  | 28.71  | -28.61 | 7.99   | 2423.96     | DIRECTION A |                |
| 3/2/2011    | 1,392.09 | 50.00    | 167.90  | 1,376.17  | 35.44  | -35.34 | 8.90   | 34.19       | DIRECTION A |                |
| 2/21/2011   | 1,392.22 | 45.40    | 175.90  | 1,376.26  | 35.54  | -35.43 | 8.92   | 1728.15     | DIRECTION A |                |
| 3/3/2011    | 1,401.71 | 52.90    | 168.90  | 1,382.46  | 42.65  | -42.53 | 9.89   | 29.00       | DIRECTION A |                |
| J/3/2011    | 1,411.33 | 55.30    | 171.60  | 1,388.10  | 50.34  | -50.21 | 11.21  | 10.12       | DIRECTION A |                |
| 3/3/2011    | 1,420.94 | 58.30    | 172.80  | 1,393.37  | 58.32  | -58.17 | 12.30  | 9.88        | DIRECTION A |                |



# Directional Survey

**Paramount**  
resources ltd.

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

| Survey Data |          |          |         |           |        |         |        |             |             |                |
|-------------|----------|----------|---------|-----------|--------|---------|--------|-------------|-------------|----------------|
| Date        | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | VS (m) | NS (m)  | EW (m) | DLS (°/30m) | Method      | Survey Company |
| 3/3/2011    | 1,430.55 | 60.90    | 173.80  | 1,398.23  | 66.57  | -66.41  | 13.26  | 8.55        | DIRECTION A |                |
| 3/3/2011    | 1,439.72 | 69.30    | 175.70  | 1,402.09  | 74.85  | -74.68  | 14.02  | 28.05       | DIRECTION A |                |
| 3/3/2011    | 1,449.11 | 67.10    | 175.70  | 1,405.57  | 83.55  | -83.37  | 14.67  | 7.03        | DIRECTION A |                |
| 3/3/2011    | 1,458.27 | 70.20    | 175.60  | 1,408.91  | 92.06  | -91.88  | 15.32  | 10.16       | DIRECTION A |                |
| 3/3/2011    | 1,467.89 | 73.10    | 175.50  | 1,411.94  | 101.17 | -100.98 | 16.03  | 9.05        | DIRECTION A |                |
| 3/3/2011    | 1,477.50 | 75.30    | 176.60  | 1,414.55  | 110.41 | -110.21 | 16.66  | 7.62        | DIRECTION A |                |
| 3/3/2011    | 1,486.90 | 77.50    | 178.80  | 1,416.76  | 119.54 | -119.33 | 17.03  | 9.79        | DIRECTION A |                |
| 3/4/2011    | 1,496.52 | 78.00    | 179.90  | 1,418.80  | 128.94 | -128.73 | 17.14  | 3.70        | DIRECTION A |                |
| 3/4/2011    | 1,506.12 | 80.20    | 180.70  | 1,420.62  | 138.36 | -138.16 | 17.09  | 7.30        | DIRECTION A |                |
| 3/4/2011    | 1,519.00 | 84.80    | 181.20  | 1,422.30  | 151.12 | -150.92 | 16.87  | 10.78       | DIRECTION A |                |
| 3/9/2011    | 1,543.85 | 87.90    | 182.00  | 1,423.88  | 175.90 | -175.71 | 16.18  | 3.86        | DIRECTION A |                |
|             | 1,543.85 | 87.90    | 182.00  | 1,423.88  | 175.90 | -175.71 | 16.18  | 3.86        | DIRECTION A |                |
| 3/9/2011    | 1,553.49 | 87.70    | 182.20  | 1,424.25  | 185.52 | -185.34 | 15.83  | 0.88        | DIRECTION A |                |
|             | 1,553.49 | 87.70    | 182.20  | 1,424.25  | 185.52 | -185.34 | 15.83  | 0.88        | DIRECTION A |                |
| 3/9/2011    | 1,563.05 | 89.70    | 181.40  | 1,424.47  | 195.07 | -194.89 | 15.53  | 6.76        | DIRECTION A |                |
|             | 1,563.05 | 89.70    | 181.40  | 1,424.47  | 195.07 | -194.89 | 15.53  | 6.76        | DIRECTION A |                |
| 3/9/2011    | 1,572.22 | 91.60    | 181.20  | 1,424.36  | 204.23 | -204.06 | 15.32  | 6.25        | DIRECTION A |                |
|             | 1,572.22 | 91.60    | 181.20  | 1,424.36  | 204.23 | -204.06 | 15.32  | 6.25        | DIRECTION A |                |
| 3/9/2011    | 1,581.85 | 92.30    | 180.50  | 1,424.04  | 213.85 | -213.68 | 15.18  | 3.08        | DIRECTION A |                |
|             | 1,581.85 | 92.30    | 180.50  | 1,424.04  | 213.85 | -213.68 | 15.18  | 3.08        | DIRECTION A |                |
| 3/9/2011    | 1,591.02 | 92.30    | 180.40  | 1,423.67  | 223.01 | -222.84 | 15.11  | 0.33        | DIRECTION A |                |
| 3/9/2011    | 1,600.66 | 90.50    | 180.60  | 1,423.43  | 232.65 | -232.48 | 15.02  | 5.64        | DIRECTION A |                |
| 3/9/2011    | 1,609.80 | 90.50    | 180.70  | 1,423.35  | 241.79 | -241.62 | 14.92  | 0.33        | DIRECTION A |                |
| 3/9/2011    | 1,619.43 | 90.50    | 180.70  | 1,423.27  | 251.41 | -251.25 | 14.80  | 0.00        | DIRECTION A |                |
| 3/9/2011    | 1,629.13 | 89.80    | 181.50  | 1,423.24  | 261.11 | -260.94 | 14.61  | 3.29        | DIRECTION A |                |
| 3/9/2011    | 1,638.51 | 89.10    | 181.00  | 1,423.33  | 270.48 | -270.32 | 14.41  | 2.75        | DIRECTION A |                |
| 3/9/2011    | 1,648.13 | 89.00    | 181.40  | 1,423.49  | 280.09 | -279.94 | 14.21  | 1.29        | DIRECTION A |                |
| 3/9/2011    | 1,657.74 | 88.40    | 181.40  | 1,423.71  | 289.70 | -289.54 | 13.97  | 1.87        | DIRECTION A |                |

# Directional Survey



**Paramount**  
resources ltd.

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

| Survey Data |          |          |         |           |        |         |        |             |             |                |
|-------------|----------|----------|---------|-----------|--------|---------|--------|-------------|-------------|----------------|
| Date        | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | VS (m) | NS (m)  | EW (m) | DLS (°/30m) | Method      | Survey Company |
| 3/9/2011    | 1,667.34 | 88.80    | 180.00  | 1,423.95  | 299.29 | -299.14 | 13.86  | 4.55        | DIRECTION A |                |
| 3/9/2011    | 1,676.69 | 88.40    | 180.60  | 1,424.17  | 308.63 | -308.49 | 13.81  | 2.31        | DIRECTION A |                |
| 3/9/2011    | 1,695.95 | 88.80    | 179.90  | 1,424.65  | 327.89 | -327.74 | 13.72  | 1.26        | DIRECTION A |                |
| 3/9/2011    | 1,705.54 | 89.80    | 179.90  | 1,424.76  | 337.47 | -337.33 | 13.74  | 3.13        | DIRECTION A |                |
| 3/9/2011    | 1,715.15 | 89.00    | 179.50  | 1,424.86  | 347.08 | -346.94 | 13.79  | 2.79        | DIRECTION A |                |
| 3/9/2011    | 1,724.79 | 91.10    | 179.20  | 1,424.85  | 356.72 | -356.58 | 13.90  | 6.60        | DIRECTION A |                |
| 3/9/2011    | 1,734.41 | 93.00    | 179.30  | 1,424.51  | 366.34 | -366.19 | 14.03  | 5.93        | DIRECTION A |                |
| 3/9/2011    | 1,744.02 | 93.80    | 178.70  | 1,423.94  | 375.93 | -375.78 | 14.19  | 3.12        | DIRECTION A |                |
| 3/10/2011   | 1,753.64 | 92.90    | 179.30  | 1,423.38  | 385.53 | -385.38 | 14.36  | 3.37        | DIRECTION A |                |
| 3/10/2011   | 1,763.29 | 92.00    | 179.90  | 1,422.97  | 395.17 | -395.02 | 14.43  | 3.36        | DIRECTION A |                |
| 3/10/2011   | 1,772.91 | 91.60    | 179.80  | 1,422.66  | 404.79 | -404.64 | 14.45  | 1.29        | DIRECTION A |                |
| 3/10/2011   | 1,782.52 | 91.90    | 179.40  | 1,422.37  | 414.39 | -414.24 | 14.52  | 1.56        | DIRECTION A |                |
| 3/10/2011   | 1,792.12 | 91.90    | 180.00  | 1,422.05  | 423.99 | -423.84 | 14.57  | 1.87        | DIRECTION A |                |
| 3/10/2011   | 1,801.74 | 90.90    | 179.60  | 1,421.82  | 433.60 | -433.46 | 14.60  | 3.36        | DIRECTION A |                |
| 3/10/2011   | 1,811.39 | 90.20    | 179.90  | 1,421.72  | 443.25 | -443.11 | 14.65  | 2.37        | DIRECTION A |                |
| 3/10/2011   | 1,820.67 | 89.80    | 180.90  | 1,421.72  | 452.53 | -452.39 | 14.58  | 3.48        | DIRECTION A |                |
| 3/10/2011   | 1,830.31 | 90.20    | 180.90  | 1,421.72  | 462.17 | -462.02 | 14.43  | 1.24        | DIRECTION A |                |
| 3/10/2011   | 1,839.94 | 91.60    | 181.30  | 1,421.57  | 471.79 | -471.65 | 14.25  | 4.54        | DIRECTION A |                |
| 3/10/2011   | 1,849.11 | 91.30    | 180.70  | 1,421.34  | 480.95 | -480.82 | 14.09  | 2.19        | DIRECTION A |                |
| 3/10/2011   | 1,858.74 | 89.90    | 181.10  | 1,421.24  | 490.58 | -490.44 | 13.93  | 4.54        | DIRECTION A |                |
| 3/10/2011   | 1,868.15 | 89.20    | 180.20  | 1,421.31  | 499.99 | -499.85 | 13.83  | 3.63        | DIRECTION A |                |
| 3/10/2011   | 1,877.78 | 89.10    | 180.00  | 1,421.46  | 509.62 | -509.48 | 13.81  | 0.70        | DIRECTION A |                |
| 3/10/2011   | 1,887.42 | 88.40    | 180.60  | 1,421.67  | 519.25 | -519.12 | 13.76  | 2.87        | DIRECTION A |                |
| 3/10/2011   | 1,897.02 | 88.30    | 180.90  | 1,421.94  | 528.84 | -528.71 | 13.63  | 0.99        | DIRECTION A |                |
| 3/10/2011   | 1,906.68 | 88.20    | 180.90  | 1,422.24  | 538.50 | -538.37 | 13.48  | 0.31        | DIRECTION A |                |
| 3/11/2011   | 1,915.87 | 88.80    | 180.30  | 1,422.48  | 547.68 | -547.56 | 13.39  | 2.77        | DIRECTION A |                |
| 3/11/2011   | 1,925.50 | 89.40    | 179.40  | 1,422.63  | 557.31 | -557.18 | 13.41  | 3.37        | DIRECTION A |                |
| 3/11/2011   | 1,935.14 | 88.70    | 179.10  | 1,422.79  | 566.95 | -566.82 | 13.54  | 2.37        | DIRECTION A |                |





# Directional Survey

**Paramount**  
resources ltd.

Well Name: **PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UVW<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

| Survey Data |          |          |         |           |        |         |        |             |             |                |
|-------------|----------|----------|---------|-----------|--------|---------|--------|-------------|-------------|----------------|
| Date        | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | VS (m) | NS (m)  | EW (m) | DLS (°/30m) | Method      | Survey Company |
| 3/11/2011   | 1,944.77 | 88.30    | 179.10  | 1,423.04  | 576.57 | -576.45 | 13.69  | 1.25        | DIRECTION A |                |
| 3/11/2011   | 1,954.40 | 88.90    | 178.90  | 1,423.28  | 586.20 | -586.07 | 13.86  | 1.97        | DIRECTION A |                |
| 3/11/2011   | 1,963.60 | 88.90    | 178.90  | 1,423.45  | 595.40 | -595.27 | 14.03  | 0.00        | DIRECTION A |                |
| 3/11/2011   | 1,973.50 | 89.90    | 178.50  | 1,423.56  | 605.30 | -605.17 | 14.26  | 3.26        | DIRECTION A |                |
| 3/11/2011   | 1,982.91 | 90.60    | 178.20  | 1,423.52  | 614.71 | -614.57 | 14.53  | 2.43        | DIRECTION A |                |
| 3/11/2011   | 1,992.27 | 90.40    | 178.40  | 1,423.44  | 624.06 | -623.93 | 14.81  | 0.91        | DIRECTION A |                |
| 3/11/2011   | 2,001.45 | 89.90    | 177.70  | 1,423.41  | 633.24 | -633.10 | 15.12  | 2.81        | DIRECTION A |                |
| 3/11/2011   | 2,011.07 | 89.70    | 177.50  | 1,423.44  | 642.86 | -642.71 | 15.52  | 0.88        | DIRECTION A |                |
| 3/11/2011   | 2,020.29 | 90.70    | 177.90  | 1,423.41  | 652.07 | -651.93 | 15.89  | 3.50        | DIRECTION A |                |
| 3/11/2011   | 2,029.52 | 90.30    | 177.10  | 1,423.33  | 661.30 | -661.15 | 16.29  | 2.91        | DIRECTION A |                |
| 3/11/2011   | 2,039.12 | 90.20    | 177.60  | 1,423.29  | 670.89 | -670.74 | 16.74  | 1.59        | DIRECTION A |                |
| 3/11/2011   | 2,048.74 | 89.40    | 176.50  | 1,423.32  | 680.51 | -680.34 | 17.23  | 4.24        | DIRECTION A |                |
| 3/11/2011   | 2,057.97 | 89.20    | 177.00  | 1,423.44  | 689.73 | -689.56 | 17.76  | 1.75        | DIRECTION A |                |
| 3/11/2011   | 2,067.55 | 89.60    | 176.90  | 1,423.54  | 699.30 | -699.12 | 18.27  | 1.29        | DIRECTION A |                |
| 3/13/2011   | 2,086.53 | 90.00    | 176.90  | 1,423.60  | 718.26 | -718.08 | 19.29  | 0.63        | DIRECTION A |                |
| 3/13/2011   | 2,096.17 | 90.60    | 177.50  | 1,423.55  | 727.89 | -727.70 | 19.76  | 2.64        | DIRECTION A |                |
| 3/13/2011   | 2,105.79 | 90.60    | 178.20  | 1,423.45  | 737.51 | -737.32 | 20.12  | 2.18        | DIRECTION A |                |
| 3/13/2011   | 2,115.40 | 90.70    | 177.90  | 1,423.34  | 747.12 | -746.92 | 20.45  | 0.99        | DIRECTION A |                |
| 3/13/2011   | 2,125.05 | 91.10    | 178.10  | 1,423.19  | 756.76 | -756.56 | 20.79  | 1.39        | DIRECTION A |                |
| 3/13/2011   | 2,134.41 | 91.40    | 178.70  | 1,422.99  | 766.12 | -765.92 | 21.05  | 2.15        | DIRECTION A |                |
| 3/13/2011   | 2,144.02 | 91.70    | 178.60  | 1,422.73  | 775.73 | -775.52 | 21.28  | 0.99        | DIRECTION A |                |
| 3/13/2011   | 2,157.21 | 92.00    | 178.80  | 1,422.30  | 788.91 | -788.70 | 21.58  | 0.82        | DIRECTION A |                |
| 3/13/2011   | 2,162.85 | 92.30    | 178.10  | 1,422.09  | 794.54 | -794.34 | 21.73  | 4.05        | DIRECTION A |                |
| 3/13/2011   | 2,172.48 | 92.30    | 177.70  | 1,421.70  | 804.16 | -803.95 | 22.08  | 1.25        | DIRECTION A |                |
| 3/13/2011   | 2,181.11 | 92.70    | 178.80  | 1,421.33  | 812.78 | -812.57 | 22.34  | 4.07        | DIRECTION A |                |
| 3/13/2011   | 2,191.53 | 92.60    | 178.40  | 1,420.84  | 823.19 | -822.97 | 22.60  | 1.19        | DIRECTION A |                |
| 3/14/2011   | 2,201.12 | 92.30    | 179.10  | 1,420.43  | 832.77 | -832.55 | 22.81  | 2.38        | DIRECTION A |                |
| 3/14/2011   | 2,210.74 | 91.70    | 179.70  | 1,420.10  | 842.39 | -842.17 | 22.91  | 2.65        | DIRECTION A |                |



# Directional Survey

**Paramount**  
resources ltd.

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

| Survey Data |          |          |         |           |          |           |        |             |             |                |
|-------------|----------|----------|---------|-----------|----------|-----------|--------|-------------|-------------|----------------|
| Date        | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | VS (m)   | NS (m)    | EW (m) | DLS (°/30m) | Method      | Survey Company |
| 3/14/2011   | 2,220.37 | 90.30    | 179.50  | 1,419.93  | 852.02   | -851.79   | 22.97  | 4.41        | DIRECTION A |                |
| 3/14/2011   | 2,229.98 | 90.40    | 180.40  | 1,419.87  | 861.62   | -861.40   | 22.98  | 2.83        | DIRECTION A |                |
| 3/14/2011   | 2,239.60 | 90.10    | 179.90  | 1,419.83  | 871.24   | -871.02   | 22.96  | 1.82        | DIRECTION A |                |
| 3/14/2011   | 2,249.26 | 89.50    | 180.90  | 1,419.86  | 880.90   | -880.68   | 22.89  | 3.62        | DIRECTION A |                |
| 3/14/2011   | 2,258.88 | 89.00    | 182.10  | 1,419.99  | 890.51   | -890.30   | 22.64  | 4.05        | DIRECTION A |                |
| 3/14/2011   | 2,268.51 | 89.50    | 182.20  | 1,420.12  | 900.13   | -899.92   | 22.28  | 1.59        | DIRECTION A |                |
| 3/14/2011   | 2,278.19 | 89.90    | 182.10  | 1,420.17  | 909.80   | -909.59   | 21.91  | 1.28        | DIRECTION A |                |
| 3/14/2011   | 2,287.56 | 88.80    | 182.10  | 1,420.27  | 919.16   | -918.96   | 21.57  | 3.52        | DIRECTION A |                |
| 3/14/2011   | 2,297.19 | 87.80    | 182.90  | 1,420.56  | 928.77   | -928.57   | 21.15  | 3.99        | DIRECTION A |                |
| 3/14/2011   | 2,306.79 | 88.10    | 182.90  | 1,420.90  | 938.34   | -938.16   | 20.67  | 0.94        | DIRECTION A |                |
| 3/14/2011   | 2,316.43 | 88.80    | 183.50  | 1,421.16  | 947.95   | -947.78   | 20.13  | 2.87        | DIRECTION A |                |
| 3/15/2011   | 2,325.56 | 89.20    | 183.60  | 1,421.32  | 957.06   | -956.89   | 19.56  | 1.35        | DIRECTION A |                |
| 3/15/2011   | 2,335.04 | 88.00    | 183.90  | 1,421.55  | 966.51   | -966.34   | 18.94  | 3.91        | DIRECTION A |                |
| 3/15/2011   | 2,344.64 | 87.30    | 183.50  | 1,421.95  | 976.07   | -975.92   | 18.32  | 2.52        | DIRECTION A |                |
| 3/15/2011   | 2,349.45 | 87.10    | 183.40  | 1,422.18  | 980.86   | -980.71   | 18.03  | 1.39        | DIRECTION A |                |
| 3/15/2011   | 2,354.26 | 87.30    | 183.30  | 1,422.42  | 985.65   | -985.51   | 17.75  | 1.39        | DIRECTION A |                |
| 3/15/2011   | 2,363.95 | 87.80    | 183.20  | 1,422.83  | 995.31   | -995.17   | 17.21  | 1.58        | DIRECTION A |                |
| 3/15/2011   | 2,373.55 | 88.00    | 182.50  | 1,423.18  | 1,004.89 | -1,004.76 | 16.73  | 2.27        | DIRECTION A |                |
| 3/15/2011   | 2,382.95 | 88.80    | 182.10  | 1,423.45  | 1,014.27 | -1,014.14 | 16.35  | 2.85        | DIRECTION A |                |
| 3/15/2011   | 2,392.56 | 88.50    | 182.40  | 1,423.67  | 1,023.86 | -1,023.74 | 15.97  | 1.32        | DIRECTION A |                |
| 3/15/2011   | 2,402.14 | 89.30    | 181.80  | 1,423.86  | 1,033.43 | -1,033.32 | 15.62  | 3.13        | DIRECTION A |                |
| 3/15/2011   | 2,411.84 | 89.20    | 181.70  | 1,423.98  | 1,043.12 | -1,043.01 | 15.33  | 0.44        | DIRECTION A |                |
| 3/15/2011   | 2,421.00 | 90.70    | 181.40  | 1,423.99  | 1,052.27 | -1,052.17 | 15.08  | 5.01        | DIRECTION A |                |
| 3/15/2011   | 2,430.38 | 90.80    | 181.40  | 1,423.87  | 1,061.65 | -1,061.54 | 14.85  | 0.32        | DIRECTION A |                |
| 3/15/2011   | 2,439.97 | 90.50    | 180.90  | 1,423.76  | 1,071.23 | -1,071.13 | 14.66  | 1.82        | DIRECTION A |                |
| 3/15/2011   | 2,449.59 | 90.80    | 180.80  | 1,423.65  | 1,080.85 | -1,080.75 | 14.51  | 0.99        | DIRECTION A |                |
| 3/15/2011   | 2,458.89 | 91.30    | 180.40  | 1,423.48  | 1,090.14 | -1,090.05 | 14.42  | 2.07        | DIRECTION A |                |
| 3/15/2011   | 2,468.55 | 91.90    | 180.60  | 1,423.21  | 1,099.80 | -1,099.70 | 14.33  | 1.96        | DIRECTION A |                |



# Directional Survey

**Paramount**  
resources ltd.

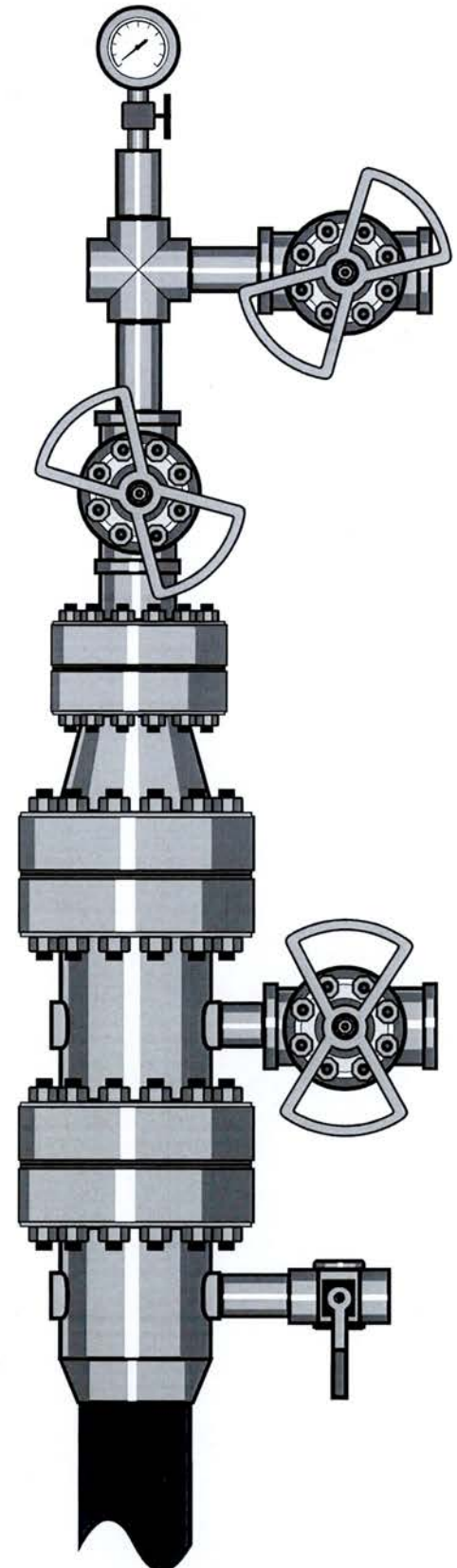
Well Name: **PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                              |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | Field Name<br>Cameron Hills    | License #<br>2073                     | State/Province<br>NT         | Well Configuration Type<br>HORIZ    |
| Ground Elevation (m)<br>770.20   | Casing Flange Elevation (m)<br>772.20          | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | Spud Date<br>1/20/2011 23:45 | Rig Release Date<br>3/21/2011 12:00 |

| Survey Data |          |          |         |           |          |           |        |             |                |                |
|-------------|----------|----------|---------|-----------|----------|-----------|--------|-------------|----------------|----------------|
| Date        | MD (mKB) | Incl (°) | Azm (°) | TVD (mKB) | VS (m)   | NS (m)    | EW (m) | DLS (°/30m) | Method         | Survey Company |
| 3/15/2011   | 2,478.15 | 91.00    | 180.50  | 1,422.97  | 1,109.39 | -1,109.30 | 14.24  | 2.83        | DIRECTION<br>A |                |
| 3/15/2011   | 2,487.23 | 91.00    | 180.20  | 1,422.81  | 1,118.47 | -1,118.38 | 14.19  | 0.99        | DIRECTION<br>A |                |
| 3/15/2011   | 2,496.85 | 90.60    | 180.60  | 1,422.67  | 1,128.08 | -1,128.00 | 14.12  | 1.76        | DIRECTION<br>A |                |

## Test Information

|                                   |                                      |                |              |
|-----------------------------------|--------------------------------------|----------------|--------------|
| <b>Operator Representative</b>    | Paramount Resources<br>Milo Christie |                |              |
| <b>Well Name</b>                  | Para ET AL Cameron 2H-03 HZ          |                |              |
| <b>Surface Location</b>           | 300/2H-03/6010-11730                 |                |              |
| <b>Downhole Location</b>          |                                      |                |              |
| <b>License</b>                    | 2073                                 |                |              |
| <b>Formation</b>                  | Sulphur Point                        |                |              |
| <b>Fluid Type</b>                 | Oil                                  |                |              |
| <b>Type</b>                       | Horizontal                           |                |              |
| <b>Ground Elevation</b>           | 770.20 m (SL)                        |                |              |
| <b>Kelly Bushing Elevation</b>    | 777.22 m (SL)                        |                |              |
| <b>Drill Leg</b>                  | 1                                    |                |              |
| <b>Producing Through:</b>         | Tubing                               |                |              |
| <b>Tubing Size</b>                | 73.0 mm                              |                |              |
| <b>Tubing Weight</b>              | 9.67 kg/m                            |                |              |
| <b>Casing Size</b>                | 177.9 mm                             |                |              |
| <b>Casing Weight</b>              | 34.23 kg/m                           |                |              |
| <b>Test Type</b>                  | Swab/Flow/Evaluate                   |                |              |
| <b>Test Duration</b>              | Mon Mar 28 2011 - Fri Apr 01 2011    |                |              |
| <b>Service Company</b>            | Silverline Swabbing                  |                |              |
| <b>Job #</b>                      | 1                                    |                |              |
| <b>Test Unit #</b>                | SWPT-001                             |                |              |
| <b>Field Contact</b>              | Clint Lee                            | <b>Phone</b>   | 780 512 4580 |
| <b>Supervisor Contact</b>         | Raegan Weiss                         | <b>Phone</b>   | 780 831 4124 |
| <b>Production Interval (Top)</b>  |                                      | m (KB)         |              |
| <b>Production Interval (Base)</b> |                                      | m (KB)         |              |
| <b>Test Totals:</b>               |                                      |                |              |
| <b>Produced Oil</b>               | 82.89                                | m <sup>3</sup> |              |
| <b>Produced Water</b>             | 447.50                               | m <sup>3</sup> |              |
| <b>Remarks:</b>                   |                                      |                |              |



# Meter Report

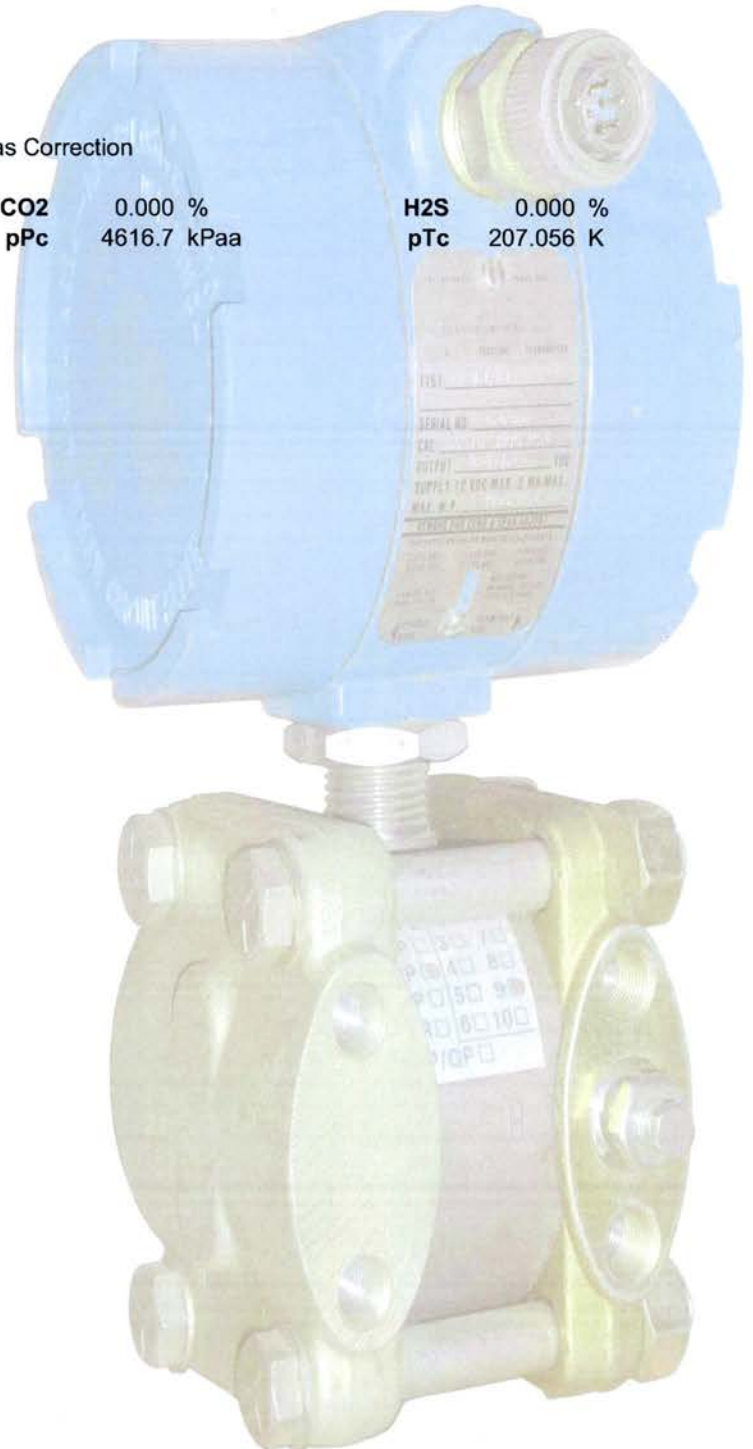
**Gas Meter** Orifice 1  
**Specification** Orifice Metering (ANSI/API 2530-92) (AGA 3 1992)  
**Meter Size** 78.00 mm  
**Taps** Flange  
**Meter Position** Downstream  
**Material:**  
**Tube** Carbon Steel  
**Plate** 304/316 Stainless

**Gas Properties:**  
**Correlation** BWR with Wichert & Aziz Acid Gas Correction  
**Components:**

|                    |         |            |             |            |           |
|--------------------|---------|------------|-------------|------------|-----------|
| <b>N2</b>          | 0.000 % | <b>CO2</b> | 0.000 %     | <b>H2S</b> | 0.000 %   |
| <b>Gas Gravity</b> | 0.6500  | <b>pPc</b> | 4616.7 kPaa | <b>pTc</b> | 207.056 K |

**Liquid Meter** Volume 2  
**Fluids** Oil Water

**Specification** Volume Meter  
**Gain** Incremental



## Grid

|    | Test Time  |          | Well: 300/2H-03/6010-11730  |       |        |        | Orifice 1 |        |      |      |       |                                   | Volume 2                       |                    |       |                |                |                |          |
|----|------------|----------|---|-------|--------|--------|-----------|--------|------|------|-------|-----------------------------------|--------------------------------|--------------------|-------|----------------|----------------|----------------|----------|
|    | Date       | Time     | Vel   | Choke | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate                              | Cum                            | Volume             | BSW   | Oil Cum        | Water Cum      | Water Salinity | Fluid PH |
|    | dd/mm/yyyy | hh:mm:ss |   | mm    | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | (l) m <sup>3</sup> | %     | m <sup>3</sup> | m <sup>3</sup> | ppm            |          |
| 1  | 28/03/2011 | 09:00:00 |   | 0.00  | 0.0    | 0.00   | 0.0       | 0.0    | 0.00 | 0.00 | 0.00  | 0.00                              | 0.00                           | 0.00               | 0.0   | 0.00           | 0.00           | 0              | 0.0      |
| 2  |            | 09:00:00 | Arrive at security received orientation   |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 3  |            | 09:20:00 | arrive on location  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 4  |            | 09:45:00 | spot equipment  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 5  |            | 10:15:00 | Purged vessel with propane  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 6  |            | 10:50:00 | function test ESD valve good test   |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 7  |            | 11:30:00 | Shut in pressures   |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 8  |            | 11:30:00 |   | 0.00  | 373.0  |        | 6072.0    | 0.0    | 0.00 | 0.00 | 0.00  | 0.00                              | 0.00                           | 156.38             | 99.6  | 0.63           | 155.75         | 0              | 0.0      |
| 9  |            | 11:30:00 | NOTE fluid rec on previous line are from service rig swabbing to Boreal testers Load fluid LTR 335.24m <sup>3</sup> |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 10 |            | 11:45:00 | open to vessel on gut line begin swabbing operations  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 11 |            | 12:15:00 | Swab#1 Tag@580m Pull@950m 1cup  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 12 |            | 12:15:00 |   | 0.00  | -1.0   |        | 6099.0    |        |      |      | 0.00  |                                   |                                | 0.90               | 40.0  | 1.17           | 156.11         |                |          |
| 13 |            | 12:25:00 | Swab#2 tag@600m Pull@1000m  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 14 |            | 12:25:00 |   | 0.00  | -1.0   |        | 6118.0    |        |      |      | 0.00  |                                   |                                | 1.16               | 90.0  | 1.28           | 157.16         |                |          |
| 15 |            | 12:35:00 | Swab#3 Tag@605m Pull@1000m  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 16 |            | 12:35:00 |   | 0.00  | -1.0   |        | 6138.0    |        |      |      | 0.00  |                                   |                                | 0.80               | 90.0  | 1.36           | 157.88         |                |          |
| 17 |            | 12:50:00 | Swab#4 Tag@605m Pull@1000m  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 18 |            | 12:50:00 |   | 0.00  | -1.0   |        | 6149.0    |        |      |      | 0.00  |                                   |                                | 0.80               | 100.0 | 1.36           | 158.68         | 130000         | 6.0      |
| 19 |            | 13:05:00 | Swab#5 Tag@605m Pull@1000m 1cup   |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 20 |            | 13:05:00 |   | 0.00  | -1.0   |        | 6135.0    |        |      |      | 0.00  |                                   |                                | 1.14               | 100.0 | 1.36           | 159.82         |                |          |
| 21 |            | 13:05:00 | Shipped vessel to 400bbl tank   |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 22 |            | 13:30:00 | Swab#6 Tag@610m Pull@1010m  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 23 |            | 13:30:00 |   | 0.00  | -1.0   |        | 6133.0    |        |      |      | 0.00  |                                   |                                | 0.96               | 100.0 | 1.36           | 160.78         |                |          |
| 24 |            | 13:45:00 | Swab#7 Tag@605m Pull@1010m  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 25 |            | 13:45:00 |   | 0.00  | -1.0   |        | 6144.0    |        |      |      | 0.00  |                                   |                                | 1.00               | 100.0 | 1.36           | 161.78         |                |          |
| 26 |            | 13:55:00 | Swab#8 Tag@605m Pull@1010m  |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 27 |            | 13:55:00 |   | 0.00  | -1.0   |        | 6147.0    |        |      |      | 0.00  |                                   |                                | 0.60               | 100.0 | 1.36           | 162.38         | 130000         | 6.0      |
| 28 |            | 14:10:00 | Swab#9 Tag@610m Pull@1010m 1cup   |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 29 |            | 14:10:00 |   | 0.00  | -1.0   |        | 6147.0    |        |      |      | 0.00  |                                   |                                | 1.30               | 100.0 | 1.36           | 163.68         |                |          |
| 30 |            | 14:25:00 | Swab#10 Tag@615m Pull@1025m   |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 31 |            | 14:25:00 |   | 0.00  | -1.0   |        | 6150.0    |        |      |      | 0.00  |                                   |                                | 1.01               | 100.0 | 1.36           | 164.69         |                |          |

### Grid

|    | Test Time  |          | Well: 300/2H-03/6010-11730 |       |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |       |         |           |                |          |  |
|----|------------|----------|----------------------------|-------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|-------|---------|-----------|----------------|----------|--|
|    | Date       | Time     | ver                        | Choke | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW   | Oil Cum | Water Cum | Water Salinity | Fluid PH |  |
|    | dd/mm/yyyy | hh:mm:ss |                            | mm    | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %     | m³      | m³        | ppm            |          |  |
| 32 | 28/03/2011 | 14:25:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 33 |            | 14:50:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 34 |            | 14:50:00 |                            | 0.00  | -1.0   |        | 6144.0    |        |      |      | 0.00  |         |          | 1.00   | 100.0 | 1.36    | 165.69    |                |          |  |
| 35 |            | 15:00:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 36 |            | 15:00:00 |                            | 0.00  | -1.0   |        | 6151.0    |        |      |      | 0.00  |         |          | 0.80   | 100.0 | 1.36    | 166.49    | 130000         | 6.0      |  |
| 37 |            | 15:15:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 38 |            | 15:15:00 |                            | 0.00  | -1.0   |        | 6152.0    |        |      |      | 0.00  |         |          | 1.46   | 100.0 | 1.36    | 167.95    |                |          |  |
| 39 |            | 15:30:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 40 |            | 15:30:00 |                            | 0.00  | -1.0   |        | 6146.0    |        |      |      | 0.00  |         |          | 1.44   | 100.0 | 1.36    | 169.39    |                |          |  |
| 41 |            | 15:45:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 42 |            | 15:45:00 |                            | 0.00  | -1.0   |        | 6148.0    |        |      |      | 0.00  |         |          | 1.00   | 100.0 | 1.36    | 170.39    |                |          |  |
| 43 |            | 15:45:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 44 |            | 16:05:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 45 |            | 16:05:00 |                            | 0.00  | -1.0   |        | 6154.0    |        |      |      | 0.00  |         |          | 1.00   | 100.0 | 1.36    | 171.39    | 130000         | 6.0      |  |
| 46 |            | 16:25:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 47 |            | 16:25:00 |                            | 0.00  | -1.0   |        | 6153.0    |        |      |      | 0.00  |         |          | 1.66   | 100.0 | 1.36    | 173.05    |                |          |  |
| 48 |            | 16:35:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 49 |            | 16:35:00 |                            | 0.00  | -1.0   |        | 6145.0    |        |      |      | 0.00  |         |          | 1.20   | 100.0 | 1.36    | 174.25    |                |          |  |
| 50 |            | 16:50:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 51 |            | 16:50:00 |                            | 0.00  | -1.0   |        | 6144.0    |        |      |      | 0.00  |         |          | 1.44   | 100.0 | 1.36    | 175.69    |                |          |  |
| 52 |            | 16:55:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 53 |            | 17:10:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 54 |            | 17:10:00 |                            | 0.00  | -1.0   |        | 6164.0    |        |      |      | 0.00  |         |          | 1.40   | 100.0 | 1.36    | 177.09    | 130000         | 6.0      |  |
| 55 |            | 17:25:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 56 |            | 17:25:00 |                            | 0.00  | -1.0   |        | 6157.0    |        |      |      | 0.00  |         |          | 1.46   | 100.0 | 1.36    | 178.55    |                |          |  |
| 57 |            | 17:45:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 58 |            | 17:45:00 |                            | 0.00  | -1.0   |        | 6217.0    |        |      |      | 0.00  |         |          | 1.40   | 100.0 | 1.36    | 179.95    |                |          |  |
| 59 |            | 17:50:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 60 |            | 17:50:00 |                            | 0.00  | 160.0  |        | 6240.0    |        |      |      | 0.00  |         |          | 0.63   | 100.0 | 1.36    | 180.58    | 130000         | 6.0      |  |
| 61 |            | 17:55:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |
| 62 |            | 18:20:00 |                            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |  |

### Grid

|    | Test Time  |          | Well: 300/2H-03/6010-11730         |       |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |       |         |           |                |          |
|----|------------|----------|------------------------------------|-------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|-------|---------|-----------|----------------|----------|
|    | Date       | Time     | ver                                | Choke | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW   | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|    | dd/mm/yyyy | hh:mm:ss |                                    | mm    | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %     | m³      | m³        | ppm            |          |
| 63 | 28/03/2011 | 18:20:00 |                                    | 0.00  | 130.0  |        | 6239.0    |        |      |      | 0.00  |         |          | 1.00   | 100.0 | 1.36    | 181.58    |                |          |
| 64 |            | 18:35:00 | Swab#25 Tag@550m Pull@1000m        |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 65 |            | 18:35:00 |                                    | 0.00  | -1.0   |        | 6247.0    |        |      |      | 0.00  |         |          | 1.26   | 100.0 | 1.36    | 182.84    |                |          |
| 66 |            | 18:50:00 | Swab#26 Tag@620m Pull@1075m        |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 67 |            | 18:50:00 |                                    | 0.00  | -1.0   |        | 6303.0    |        |      |      | 0.00  |         |          | 1.50   | 100.0 | 1.36    | 184.34    |                |          |
| 68 |            | 19:25:00 | Swab#27 Tag @560m pull 1075m       |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 69 |            | 19:25:00 |                                    | 0.00  | 20.0   |        | 6335.0    |        |      |      | 0.00  |         |          | 1.55   | 100.0 | 1.36    | 185.89    |                |          |
| 70 |            | 19:45:00 | swab #28 tag 550m pull 1075m 1cup  |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 71 |            | 19:45:00 |                                    | 0.00  | 10.0   |        | 6352.0    |        |      |      | 0.00  |         |          | 1.00   | 100.0 | 1.36    | 186.89    | 130000         | 6.0      |
| 72 |            | 19:50:00 | shipped to 400bbl                  |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 73 |            | 20:15:00 | swab #29 tag @550m pull from 1100m |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 74 |            | 20:15:00 |                                    | 0.00  | 1.0    |        | 6373.0    |        |      |      | 0.00  |         |          | 1.50   | 100.0 | 1.36    | 188.39    |                |          |
| 75 |            | 20:35:00 | swab # 30 tag 550m pull 1100m      |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 76 |            | 20:35:00 |                                    | 0.00  | 20.0   |        | 6393.0    |        |      |      | 0.00  |         |          | 0.85   | 100.0 | 1.36    | 189.24    |                |          |
| 77 |            | 20:50:00 | swab # 31 tag 600m pull 1150m      |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 78 |            | 20:50:00 |                                    | 0.00  | -1.0   |        | 6403.0    |        |      |      | 0.00  |         |          | 0.98   | 100.0 | 1.36    | 190.22    |                |          |
| 79 |            | 21:10:00 | swab # 32 tag 600m pull 1150m      |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 80 |            | 21:10:00 |                                    | 0.00  | 40.0   |        | 6419.0    |        |      |      | 0.00  |         |          | 1.10   | 100.0 | 1.36    | 191.32    |                |          |
| 81 |            | 21:30:00 | swab # 33 tag 560m pull 1150m      |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 82 |            | 21:30:00 |                                    | 0.00  | 40.0   |        | 6439.0    |        |      |      | 0.00  |         |          | 1.04   | 100.0 | 1.36    | 192.36    | 130000         | 6.0      |
| 83 |            | 21:40:00 | shipped to 400bbl                  |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 84 |            | 22:00:00 | swab # 34 tag 570m pull 1150m      |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 85 |            | 22:00:00 |                                    | 0.00  | 20.0   |        | 6441.0    |        |      |      | 0.00  |         |          | 1.65   | 100.0 | 1.36    | 194.01    |                |          |
| 86 |            | 22:20:00 | swab # 35 tag 570m pull 1150m      |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 87 |            | 22:20:00 |                                    | 0.00  | 1.0    |        | 6465.0    |        |      |      | 0.00  |         |          | 0.71   | 100.0 | 1.36    | 194.72    |                |          |
| 88 |            | 22:35:00 | swab # 36 tag 600 pull 1175m 1cup  |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 89 |            | 22:35:00 |                                    | 0.00  | 10.0   |        | 6480.0    |        |      |      | 0.00  |         |          | 1.21   | 100.0 | 1.36    | 195.93    |                |          |
| 90 |            | 22:55:00 | swab # 37 tag 560m pull 1175m      |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 91 |            | 22:55:00 |                                    | 0.00  | 1.0    |        | 6490.0    |        |      |      | 0.00  |         |          | 1.46   | 15.0  | 2.60    | 196.15    | 130000         | 6.0      |
| 92 |            | 23:15:00 | swab # 38 tag 520 pull 1150m       |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 93 |            | 23:15:00 |                                    | 0.00  | 30.0   |        | 6514.0    |        |      |      | 0.00  |         |          | 1.40   | 98.0  | 2.63    | 197.52    |                |          |



### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730    |        |        |        | Orifice 1 |      |      |       |         |       | Volume 2 |       |         |           |                |          |
|-----|------------|----------|-------------------------------|--------|--------|--------|-----------|------|------|-------|---------|-------|----------|-------|---------|-----------|----------------|----------|
|     | Date       | Time     | Choke                         | Tubing | Tubing | Casing | Static    | Temp | Diff | Plate | Rate    | Cum   | Volume   | BSW   | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss | mm                            | kPag   | °C     | kPag   | kPag      | °C   | kPa  | mm    | 10³m³/d | 10³m³ | (l) m³   | %     | m³      | m³        | ppm            |          |
| 94  | 28/03/2011 | 23:30:00 | shipped to 400bbl             |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 95  |            | 23:45:00 | swab # 39 tag 530 pull 1150   |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 96  |            | 23:45:00 | 0.00                          | 30.0   |        | 6535.0 |           |      |      | 0.00  |         |       | 1.65     | 100.0 | 2.63    | 199.17    |                |          |
| 97  | 29/03/2011 | 00:05:00 | swab # 40 tag 530m pull 1150m |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 98  |            | 00:05:00 | 0.00                          | -1.0   |        | 6569.0 |           |      |      | 0.00  |         |       | 1.23     | 35.0  | 3.43    | 199.60    |                |          |
| 99  |            | 00:20:00 | swab # 41 tag 540 pull 1150m  |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 100 |            | 00:20:00 | 0.00                          | -1.0   |        | 6592.0 |           |      |      | 0.00  |         |       | 1.39     | 75.0  | 3.78    | 200.64    | 130000         | 6.0      |
| 101 |            | 00:40:00 | swab # 42 tag 500 pull 1150   |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 102 |            | 00:40:00 | 0.00                          | -1.0   |        | 6595.0 |           |      |      | 0.00  |         |       | 1.19     | 10.0  | 4.85    | 200.76    |                |          |
| 103 |            | 00:55:00 | shipped to 400bbl             |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 104 |            | 01:10:00 | swab # 43 tag 550 pull 1150   |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 105 |            | 01:10:00 | 0.00                          | 1.0    |        | 6632.0 |           |      |      | 0.00  |         |       | 1.37     | 1.0   | 6.20    | 200.78    |                |          |
| 106 |            | 01:30:00 | swab # 44 tag 570 pull 1150   |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 107 |            | 01:30:00 | 0.00                          | -1.0   |        | 6635.0 |           |      |      | 0.00  |         |       | 1.17     | 80.0  | 6.44    | 201.71    |                |          |
| 108 |            | 01:45:00 | swab # 45 tag 570 pull 1150   |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 109 |            | 01:45:00 | 0.00                          | -1.0   |        | 6639.0 |           |      |      | 0.00  |         |       | 1.11     | 90.0  | 6.55    | 202.71    |                |          |
| 110 |            | 02:00:00 | swab # 46 tag 570m pull 1175  |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 111 |            | 02:00:00 | 0.00                          | 1.0    |        | 6632.0 |           |      |      | 0.00  |         |       | 1.37     | 60.0  | 7.10    | 203.53    |                |          |
| 112 |            | 02:15:00 | shipped to 400bbl             |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 113 |            | 02:30:00 | swab # 47 tag 520 pull 1150   |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 114 |            | 02:30:00 | 0.00                          | 100.0  |        | 6635.0 |           |      |      | 0.00  |         |       | 1.64     | 75.0  | 7.51    | 204.76    | 130000         | 6.0      |
| 115 |            | 02:50:00 | swab # 48 tag 570 pull 11450  |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 116 |            | 02:50:00 | 0.00                          | 1.0    |        | 6652.0 |           |      |      | 0.00  |         |       | 1.31     | 3.0   | 8.78    | 204.80    |                |          |
| 117 |            | 03:10:00 | swab # 49 tag 520 pull 1150   |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 118 |            | 03:10:00 | 0.00                          | 300.0  |        | 6656.0 |           |      |      | 0.00  |         |       | 1.77     | 90.0  | 8.96    | 206.39    |                |          |
| 119 |            | 03:20:00 | shipped to 400bbl             |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 120 |            | 03:35:00 | swab # 50 tag 300 pull 850    |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 121 |            | 03:35:00 | 0.00                          | 200.0  |        | 6640.0 |           |      |      | 0.00  |         |       | 1.16     | 90.0  | 9.07    | 207.44    |                |          |
| 122 |            | 03:50:00 | swab # 51 tag 590 pull 1150   |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 123 |            | 03:50:00 | 0.00                          | 1.0    |        | 6648.0 |           |      |      | 0.00  |         |       | 0.48     | 75.0  | 9.19    | 207.80    |                |          |
| 124 |            | 04:10:00 | swab # 52 tag 500 pull 1150   |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730                  |       |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |       |         |           |                |          |
|-----|------------|----------|---|-------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|-------|---------|-----------|----------------|----------|
|     | Date       | Time     | ver   | Choke | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW   | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |   | mm    | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %     | m³      | m³        | ppm            |          |
| 125 | 29/03/2011 | 04:10:00 |   | 0.00  | 50.0   |        | 6550.0    |        |      |      | 0.00  |         |          | 1.65   | 100.0 | 9.19    | 209.45    |                |          |
| 126 |            | 04:30:00 | swab # 53 tag 450 pull 1100                 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 127 |            | 04:30:00 |   | 0.00  | 600.0  |        | 6561.0    |        |      |      | 0.00  |         |          | 1.29   | 50.0  | 9.84    | 210.09    |                |          |
| 128 |            | 04:40:00 | shipped to 400bbl                           |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 129 |            | 04:55:00 | swab # 54 tag 360 pull 880 1cup             |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 130 |            | 04:55:00 |   | 0.00  | 200.0  |        | 6613.0    |        |      |      | 0.00  |         |          | 0.90   | 60.0  | 10.20   | 210.63    | 130000         | 6.0      |
| 131 |            | 05:15:00 | swab # 55 tag 600 pull 1175                 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 132 |            | 05:15:00 |   | 0.00  | -1.0   |        | 6594.0    |        |      |      | 0.00  |         |          | 1.33   | 50.0  | 10.86   | 211.30    |                |          |
| 133 |            | 05:30:00 | swab # 56 tag 500 pull 1100                 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 134 |            | 05:30:00 |   | 0.00  | 300.0  |        | 6560.0    |        |      |      | 0.00  |         |          | 1.50   | 75.0  | 11.24   | 212.42    |                |          |
| 135 |            | 05:50:00 | swab # 57 tag 570 pull 1175                 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 136 |            | 05:50:00 |   | 0.00  | 400.0  |        | 6522.0    |        |      |      | 0.00  |         |          | 1.44   | 80.0  | 11.52   | 213.58    |                |          |
| 137 |            | 06:00:00 | shipped to 400bbl                           |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 138 |            | 06:05:00 | well kicked                                 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 139 |            | 06:15:00 |   | 0.00  | 1.0    |        | 6613.0    |        |      |      | 0.00  |         |          | 0.70   | 75.0  | 11.70   | 214.10    |                |          |
| 140 |            | 06:35:00 | swab # 58 tag 600 pull 1180m                |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 141 |            | 06:35:00 |   | 0.00  | -1.0   |        | 6600.0    |        |      |      | 0.00  |         |          | 1.34   | 90.0  | 11.83   | 215.31    |                |          |
| 142 |            | 06:50:00 | swab # 59 tag 600m pull 1180m               |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 143 |            | 06:50:00 |   | 0.00  | 200.0  |        | 6563.0    |        |      |      | 0.00  |         |          | 1.45   | 80.0  | 12.12   | 216.47    |                |          |
| 144 |            | 07:10:00 | swab # 60 tag 520 pull 1150                 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 145 |            | 07:10:00 |   | 0.00  | 600.0  |        | 6532.0    |        |      |      | 0.00  |         |          | 1.53   | 70.0  | 12.58   | 217.54    | 130000         | 6.0      |
| 146 |            | 07:20:00 | shipped to 400bbl                           |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 147 |            | 07:30:00 | Crew Change Load fluid left to Rec 268.46m³ |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 148 |            | 07:35:00 | Well kicked                                 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 149 |            | 07:50:00 |   | 0.00  | 0.0    |        | 6637.0    |        |      |      | 0.00  |         |          | 0.45   | 70.0  | 12.72   | 217.85    |                |          |
| 150 |            | 08:10:00 | Swab#61 Tag@520m Pull@1200m                 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 151 |            | 08:10:00 |   | 0.00  | 22.0   |        | 6624.0    |        |      |      | 0.00  |         |          | 1.41   | 50.0  | 13.42   | 218.56    |                |          |
| 152 |            | 08:30:00 | Swab#62 Tag@630m Pull@1260m                 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 153 |            | 08:30:00 |   | 0.00  | 21.0   |        | 6583.0    |        |      |      | 0.00  |         |          | 1.47   | 80.0  | 13.72   | 219.73    |                |          |
| 154 |            | 08:50:00 | Swab#63 Tag@550m Pull@1260m                 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 155 |            | 08:50:00 |   | 0.00  | 165.0  |        | 6515.0    |        |      |      | 0.00  |         |          | 1.96   | 90.0  | 13.91   | 221.50    | 130000         | 6.0      |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |   |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |      |         |           |                |          |
|-----|------------|----------|----------------------------|---|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|------|---------|-----------|----------------|----------|
|     | Date       | Time     | ver                        | Choke   | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW  | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm  | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %    | m³      | m³        | ppm            |          |
| 156 | 29/03/2011 | 08:50:00 |                            | Shipped to 400bbl tank  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 157 |            | 09:15:00 |                            | Swab#64 Tag@365m Pull@875m  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 158 |            | 09:15:00 |                            | 0.00  | 194.0  |        | 6585.0    |        |      |      | 0.00  |         |          | 0.90   | 70.0 | 14.18   | 222.13    |                |          |
| 159 |            | 09:30:00 |                            | Swab#65 Tag@400m Pull@1050m   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 160 |            | 09:30:00 |                            | 0.00  | 20.0   |        | 6600.0    |        |      |      | 0.00  |         |          | 1.00   | 70.0 | 14.48   | 222.83    |                |          |
| 161 |            | 09:45:00 |                            | Swab#66 Tag@620m Pull@1260m   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 162 |            | 09:45:00 |                            | 0.00  | 130.0  |        | 6573.0    |        |      |      | 0.00  |         |          | 1.76   | 90.0 | 14.66   | 224.41    |                |          |
| 163 |            | 10:05:00 |                            | Swab#67 Tag@160m Pull@760m 1Cup                                     |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 164 |            | 10:05:00 |                            | 0.00  | 550.0  |        | 6500.0    |        |      |      | 0.00  |         |          | 1.24   | 95.0 | 14.72   | 225.59    | 130000         | 6.0      |
| 165 |            | 10:05:00 |                            | Shipped to 400bbl Tank  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 166 |            | 10:30:00 |                            | Swab#68 Tag@520m Pull@1260m   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 167 |            | 10:30:00 |                            | 0.00  | 45.0   |        | 6488.0    |        |      |      | 0.00  |         |          | 1.50   | 90.0 | 14.87   | 226.94    |                |          |
| 168 |            | 10:45:00 |                            | Swab#69 Tag@300m Pull@1260m   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 169 |            | 10:45:00 |                            | 0.00  | 100.0  |        | 6405.0    |        |      |      | 0.00  |         |          | 1.66   | 85.0 | 15.12   | 228.35    |                |          |
| 170 |            | 11:00:00 |                            | Swab#70 Tag@260m Pull@1000m   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 171 |            | 11:00:00 |                            | 0.00  | 460.0  |        | 6434.0    |        |      |      | 0.00  |         |          | 1.34   | 90.0 | 15.25   | 229.56    |                |          |
| 172 |            | 11:00:00 |                            | Shipped vessel to 400bbl Tank                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 173 |            | 11:25:00 |                            | Swab#71 Tag@480m Pull@1260m   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 174 |            | 11:25:00 |                            | 0.00  | 55.0   |        | 6465.0    |        |      |      | 0.00  |         |          | 1.50   | 80.0 | 15.55   | 230.76    | 130000         | 6.0      |
| 175 |            | 11:45:00 |                            | Swab#72 Tag@450m Pull@1260m   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 176 |            | 11:45:00 |                            | 0.00  | 155.0  |        | 6438.0    |        |      |      | 0.00  |         |          | 1.66   | 95.0 | 15.64   | 232.33    |                |          |
| 177 |            | 12:00:00 |                            | Swab#73 Tag@420m Pull@1260m   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 178 |            | 12:00:00 |                            | 0.00  | 130.0  |        | 6424.0    |        |      |      | 0.00  |         |          | 1.64   | 95.0 | 15.72   | 233.89    |                |          |
| 179 |            | 12:05:00 |                            | Shipped vessel to 400bbl tank                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 180 |            | 12:25:00 |                            | Swab#74 Tag@160m Pull@900m  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 181 |            | 12:25:00 |                            | 0.00  | 156.0  |        | 6484.0    |        |      |      | 0.00  |         |          | 0.96   | 95.0 | 15.77   | 234.80    |                |          |
| 182 |            | 12:45:00 |                            | Swab#75 Tag@600m Pull@1260m   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 183 |            | 12:45:00 |                            | 0.00  | -1.0   |        | 6478.0    |        |      |      | 0.00  |         |          | 1.50   | 95.0 | 15.84   | 236.23    |                |          |
| 184 |            | 13:05:00 |                            | Swab#76 Tag@500m Pull@1150  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 185 |            | 13:05:00 |                            | 0.00  | 213.0  |        | 6481.0    |        |      |      | 0.00  |         |          | 1.40   | 95.0 | 15.91   | 237.56    | 130000         | 6.0      |
| 186 |            | 13:20:00 |                            | Swab#77 Tag@590m Pull@1260m (NOTE 2.25% H²S determined by Kitigawa) |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730       |       |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |      |         |           |                |          |
|-----|------------|----------|----------------------------------|-------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|------|---------|-----------|----------------|----------|
|     | Date       | Time     | ver                              | Choke | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW  | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                                  | mm    | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %    | m³      | m³        | ppm            |          |
| 187 | 29/03/2011 | 13:20:00 |                                  | 0.00  | 170.0  |        | 6407.0    |        |      |      | 0.00  |         |          | 1.54   | 95.0 | 15.99   | 239.02    |                |          |
| 188 |            | 13:20:00 | Shipped vessel to 400bbl tank    |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 189 |            | 13:35:00 | Well began slugging fluid        |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 190 |            | 13:45:00 |                                  | 0.00  | 11.0   |        | 6480.0    |        |      |      | 0.00  |         |          | 0.70   | 95.0 | 16.02   | 239.69    |                |          |
| 191 |            | 14:00:00 | Swab#78 Tag@630m Pull@1260m      |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 192 |            | 14:00:00 |                                  | 0.00  | -1.0   |        | 6460.0    |        |      |      | 0.00  |         |          | 1.41   | 95.0 | 16.09   | 241.03    | 130000         | 6.0      |
| 193 |            | 14:20:00 | Swab#79 Tag@530m Pull@1260m      |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 194 |            | 14:20:00 |                                  | 0.00  | 104.0  |        | 6436.0    |        |      |      | 0.00  |         |          | 1.75   | 95.0 | 16.18   | 242.69    |                |          |
| 195 |            | 14:45:00 | Swab#80 Tag@580m Pull@1265m      |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 196 |            | 14:45:00 |                                  | 0.00  | 370.0  |        | 6446.0    |        |      |      | 0.00  |         |          | 1.64   | 75.0 | 16.59   | 243.92    |                |          |
| 197 |            | 14:45:00 | Shipped vessel to 400bbl tank    |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 198 |            | 15:10:00 | Swab#81 Tag@480m Pull@1265m      |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 199 |            | 15:10:00 |                                  | 0.00  | 90.0   |        | 6460.0    |        |      |      | 0.00  |         |          | 1.50   | 75.0 | 16.97   | 245.04    |                |          |
| 200 |            | 15:30:00 | Swab#82 Tag@520m Pull@1265m      |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 201 |            | 15:30:00 |                                  | 0.00  | 50.0   |        | 6443.0    |        |      |      | 0.00  |         |          | 1.36   | 60.0 | 17.51   | 245.86    | 130000         | 6.0      |
| 202 |            | 15:45:00 | Swab#83 Tag@460m Pull@1265m      |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 203 |            | 15:45:00 |                                  | 0.00  | 198.0  |        | 6481.0    |        |      |      | 0.00  |         |          | 1.64   | 90.0 | 17.67   | 247.34    |                |          |
| 204 |            | 15:50:00 | Shipped vessel to 400bbl tank    |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 205 |            | 16:15:00 | Swab#84 Tag@330m Pull@1265m      |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 206 |            | 16:15:00 |                                  | 0.00  | 118.0  |        | 6508.0    |        |      |      | 0.00  |         |          | 1.50   | 75.0 | 18.05   | 248.46    | 130000         | 6.0      |
| 207 |            | 16:30:00 | Swab#85 Tag@650m Pull@1265m      |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 208 |            | 16:30:00 |                                  | 0.00  | 30.0   |        | 6478.0    |        |      |      | 0.00  |         |          | 1.16   | 70.0 | 18.40   | 249.27    |                |          |
| 209 |            | 16:50:00 | Swab#86 Tag@500m Pull@1265m 1cup |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 210 |            | 16:50:00 |                                  | 0.00  | 611.0  |        | 6473.0    |        |      |      | 0.00  |         |          | 2.04   | 90.0 | 18.60   | 251.11    | 130000         | 6.0      |
| 211 |            | 16:55:00 | Shipped vessel to 400bbl tank    |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 212 |            | 17:00:00 | Well flowing                     |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 213 |            | 17:00:00 |                                  | 0.00  | 1111.0 |        | 6328.0    |        |      |      | 0.00  |         |          | 1.00   | 95.0 | 18.65   | 252.06    |                |          |
| 214 |            | 17:10:00 |                                  | 0.00  | 1100.0 |        | 5935.0    |        |      |      | 0.00  |         |          | 1.46   | 95.0 | 18.72   | 253.45    |                |          |
| 215 |            | 17:20:00 |                                  | 0.00  | 560.0  |        | 5946.0    |        |      |      | 0.00  |         |          | 1.27   | 95.0 | 18.79   | 254.65    |                |          |
| 216 |            | 17:30:00 |                                  | 0.00  | 298.0  |        | 6013.0    |        |      |      | 0.00  |         |          | 0.50   | 95.0 | 18.81   | 255.13    |                |          |
| 217 |            | 17:40:00 |                                  | 0.00  | 30.0   |        | 6233.0    |        |      |      | 0.00  |         |          | 0.00   | 95.0 | 18.81   | 255.13    |                |          |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |       |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |      |         |           |                |          |  |
|-----|------------|----------|----------------------------|-------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|------|---------|-----------|----------------|----------|--|
|     | Date       | Time     | Vel                        | Choke | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW  | Oil Cum | Water Cum | Water Salinity | Fluid PH |  |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm    | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %    | m³      | m³        | ppm            |          |  |
| 218 | 29/03/2011 | 17:55:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 219 |            | 17:55:00 |                            | 0.00  | 35.0   |        | 6303.0    |        |      |      | 0.00  |         |          | 0.90   | 75.0 | 19.04   | 255.80    |                |          |  |
| 220 |            | 18:15:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 221 |            | 18:15:00 |                            | 0.00  | -1.0   |        | 6342.0    |        |      |      | 0.00  |         |          | 1.56   | 75.0 | 19.43   | 256.97    | 130000         | 6.0      |  |
| 222 |            | 18:35:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 223 |            | 18:35:00 |                            | 0.00  | 17.0   |        | 6368.0    |        |      |      | 0.00  |         |          | 1.40   | 95.0 | 19.50   | 258.30    |                |          |  |
| 224 |            | 18:50:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 225 |            | 18:50:00 |                            | 0.00  | 327.0  |        | 6367.0    |        |      |      | 0.00  |         |          | 1.64   | 99.0 | 19.51   | 259.93    |                |          |  |
| 226 |            | 18:50:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 227 |            | 19:25:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 228 |            | 19:25:00 |                            | 0.00  | 77.0   |        | 6433.0    |        |      |      | 0.00  |         |          | 1.60   | 60.0 | 20.15   | 260.89    |                |          |  |
| 229 |            | 19:50:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 230 |            | 19:50:00 |                            | 0.00  | -1.0   |        | 6470.0    |        |      |      | 0.00  |         |          | 1.51   | 10.0 | 21.51   | 261.04    |                |          |  |
| 231 |            | 20:10:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 232 |            | 20:10:00 |                            | 0.00  | -1.0   |        | 6460.0    |        |      |      | 0.00  |         |          | 1.45   | 95.0 | 21.59   | 262.41    |                |          |  |
| 233 |            | 20:25:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 234 |            | 20:25:00 |                            | 0.00  | 400.0  |        | 6478.0    |        |      |      | 0.00  |         |          | 1.26   | 90.0 | 21.71   | 263.55    |                |          |  |
| 235 |            | 20:40:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 236 |            | 21:00:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 237 |            | 21:00:00 |                            | 0.00  | 1.0    |        | 6534.0    |        |      |      | 0.00  |         |          | 1.30   | 30.0 | 22.62   | 263.94    |                |          |  |
| 238 |            | 21:20:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 239 |            | 21:20:00 |                            | 0.00  | 5.0    |        | 6503.0    |        |      |      | 0.00  |         |          | 1.44   | 95.0 | 22.69   | 265.31    |                |          |  |
| 240 |            | 21:35:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 241 |            | 21:35:00 |                            | 0.00  | 200.0  |        | 6401.0    |        |      |      | 0.00  |         |          | 1.61   | 85.0 | 22.94   | 266.67    |                |          |  |
| 242 |            | 21:55:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 243 |            | 21:55:00 |                            | 0.00  | 500.0  |        | 6423.0    |        |      |      | 0.00  |         |          | 1.05   | 20.0 | 23.78   | 266.88    | 130000         | 7.0      |  |
| 244 |            | 22:00:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 245 |            | 22:20:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 246 |            | 22:20:00 |                            | 0.00  | 5.0    |        | 6474.0    |        |      |      | 0.00  |         |          | 1.37   | 40.0 | 24.60   | 267.43    |                |          |  |
| 247 |            | 22:35:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 248 |            | 22:35:00 |                            | 0.00  | 80.0   |        | 6454.0    |        |      |      | 0.00  |         |          | 1.44   | 80.0 | 24.89   | 268.58    |                |          |  |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |                              |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |       |         |           |                |          |
|-----|------------|----------|----------------------------|------------------------------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|-------|---------|-----------|----------------|----------|
|     | Date       | Time     | ver                        | Choke                        | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW   | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm                           | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %     | m³      | m³        | ppm            |          |
| 249 | 29/03/2011 | 23:10:00 |                            | swab # 101 tag 580 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 250 |            | 23:10:00 |                            | 0.00                         | 5.0    |        | 6550.0    |        |      |      | 0.00  |         |          | 1.31   | 85.0  | 25.08   | 269.70    |                |          |
| 251 |            | 23:30:00 |                            | swab # 102 tag 620 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 252 |            | 23:30:00 |                            | 0.00                         | -1.0   |        | 6522.0    |        |      |      | 0.00  |         |          | 1.20   | 50.0  | 25.68   | 270.30    | 130000         | 6.0      |
| 253 |            | 23:45:00 |                            | shipped to 400bbl            |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 254 | 30/03/2011 | 00:00:00 |                            | swab # 103 tag 545 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 255 |            | 00:00:00 |                            | 0.00                         | 100.0  |        | 6485.0    |        |      |      | 0.00  |         |          | 1.65   | 100.0 | 25.68   | 271.95    |                |          |
| 256 |            | 00:20:00 |                            | swab # 104 tag 600 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 257 |            | 00:20:00 |                            | 0.00                         | -1.0   |        | 6470.0    |        |      |      | 0.00  |         |          | 1.38   | 15.0  | 26.85   | 272.16    |                |          |
| 258 |            | 00:35:00 |                            | swab # 105 tag 500 1265      |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 259 |            | 00:35:00 |                            | 0.00                         | 200.0  |        | 6463.0    |        |      |      | 0.00  |         |          | 1.55   | 95.0  | 26.93   | 273.63    |                |          |
| 260 |            | 00:55:00 |                            | swab # 106 tag 470 pull 1150 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 261 |            | 00:55:00 |                            | 0.00                         | 200.0  |        | 6439.0    |        |      |      | 0.00  |         |          | 1.03   | 90.0  | 27.04   | 274.55    | 130000         | 6.0      |
| 262 |            | 01:05:00 |                            | shipped to 400bbl            |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 263 |            | 01:20:00 |                            | swab # 107 tag 450 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 264 |            | 01:20:00 |                            | 0.00                         | 5.0    |        | 6468.0    |        |      |      | 0.00  |         |          | 1.51   | 90.0  | 27.19   | 275.91    |                |          |
| 265 |            | 01:40:00 |                            | swab # 108 tag 600 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 266 |            | 01:40:00 |                            | 0.00                         | 400.0  |        | 6426.0    |        |      |      | 0.00  |         |          | 1.37   | 90.0  | 27.32   | 277.15    |                |          |
| 267 |            | 01:55:00 |                            | swab # 109 tag 550 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 268 |            | 01:55:00 |                            | 0.00                         | 300.0  |        | 6395.0    |        |      |      | 0.00  |         |          | 1.55   | 80.0  | 27.63   | 278.39    |                |          |
| 269 |            | 02:10:00 |                            | swab # 110 tag 360 pull 1100 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 270 |            | 02:10:00 |                            | 0.00                         | 600.0  |        | 6378.0    |        |      |      | 0.00  |         |          | 1.18   | 100.0 | 27.63   | 279.57    | 130000         | 6.0      |
| 271 |            | 02:20:00 |                            | shipped to 400bbl            |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 272 |            | 02:35:00 |                            | swab # 111 tag 400 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 273 |            | 02:35:00 |                            | 0.00                         | 75.0   |        | 6420.0    |        |      |      | 0.00  |         |          | 1.44   | 50.0  | 28.35   | 280.29    |                |          |
| 274 |            | 02:55:00 |                            | swab # 112 tag 600 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 275 |            | 02:55:00 |                            | 0.00                         | 400.0  |        | 6388.0    |        |      |      | 0.00  |         |          | 1.53   | 95.0  | 28.43   | 281.74    |                |          |
| 276 |            | 03:10:00 |                            | swab # 113 tag 500 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 277 |            | 03:10:00 |                            | 0.00                         | 400.0  |        | 6368.0    |        |      |      | 0.00  |         |          | 1.47   | 75.0  | 28.80   | 282.84    |                |          |
| 278 |            | 03:30:00 |                            | swab # 114 tag 430 1265      |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 279 |            | 03:30:00 |                            | 0.00                         | 300.0  |        | 6404.0    |        |      |      | 0.00  |         |          | 1.18   | 75.0  | 29.09   | 283.73    | 130000         | 6.0      |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |  |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |      |         |           |                |          |
|-----|------------|----------|----------------------------|--|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|------|---------|-----------|----------------|----------|
|     | Date       | Time     | ver                        | Choke  | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW  | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm   | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %    | m³      | m³        | ppm            |          |
| 280 | 30/03/2011 | 03:40:00 |                            | shipped to 400bbl                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 281 |            | 03:55:00 |                            | swab # 115 tag 400 pull 1265 1cup                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 282 |            | 03:55:00 |                            | 0.00   | 200.0  |        | 6405.0    |        |      |      | 0.00  |         |          | 1.51   | 90.0 | 29.24   | 285.09    |                |          |
| 283 |            | 04:10:00 |                            | swab # 116 tag 640 pull 1265                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 284 |            | 04:10:00 |                            | 0.00   | -1.0   |        | 6394.0    |        |      |      | 0.00  |         |          | 1.37   | 80.0 | 29.52   | 286.18    |                |          |
| 285 |            | 04:30:00 |                            | swab # 117 tag 550 pull 1265                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 286 |            | 04:30:00 |                            | 0.00   | 300.0  |        | 6378.0    |        |      |      | 0.00  |         |          | 1.70   | 90.0 | 29.69   | 287.71    |                |          |
| 287 |            | 04:50:00 |                            | swab # 118 tag 600 pull 1265                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 288 |            | 04:50:00 |                            | 0.00   | 200.0  |        | 6437.0    |        |      |      | 0.00  |         |          | 1.17   | 45.0 | 30.33   | 288.24    | 130000         | 6.0      |
| 289 |            | 05:15:00 |                            | shipped to 400bbl                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 290 |            | 05:30:00 |                            | swab # 119 tag 490 pull 1265                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 291 |            | 05:30:00 |                            | 0.00   | 13.0   |        | 6445.0    |        |      |      | 0.00  |         |          | 1.65   | 75.0 | 30.74   | 289.48    |                |          |
| 292 |            | 05:50:00 |                            | swab # 120 tag 600 pull 1265                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 293 |            | 05:50:00 |                            | 0.00   | -1.0   |        | 6425.0    |        |      |      | 0.00  |         |          | 1.46   | 25.0 | 31.84   | 289.84    |                |          |
| 294 |            | 06:05:00 |                            | swab # 121 tag 570 pull 1265                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 295 |            | 06:05:00 |                            | 0.00   | 500.0  |        | 6400.0    |        |      |      | 0.00  |         |          | 1.47   | 90.0 | 31.99   | 291.16    |                |          |
| 296 |            | 06:05:00 |                            | total swabs pulled during report =63               |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 297 |            |          |                            | total fluid recovered during report=97.44m3        |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 298 |            |          |                            | total oil recovered during report=20.29m3          |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 299 |            |          |                            | total water recovered during report=77.06m3        |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 300 |            |          |                            | load fluid left to recover=199.84m3                |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 301 |            | 06:35:00 |                            | swab # 122 tag 620 pull 1265                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 302 |            | 06:35:00 |                            | 0.00   | 15.0   |        | 6487.0    |        |      |      | 0.00  |         |          | 1.45   | 30.0 | 33.00   | 291.60    | 130000         | 6.0      |
| 303 |            | 06:45:00 |                            | shipped to 400bbl                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 304 |            | 07:05:00 |                            | swab # 123 tag 570 pull 1265                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 305 |            | 07:05:00 |                            | 0.00   | 100.0  |        | 6465.0    |        |      |      | 0.00  |         |          | 1.65   | 80.0 | 33.33   | 292.92    |                |          |
| 306 |            | 07:25:00 |                            | swab # 124 tag 640 pull 1265                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 307 |            | 07:25:00 |                            | 0.00   | 1.0    |        | 6406.0    |        |      |      | 0.00  |         |          | 1.38   | 75.0 | 33.68   | 293.95    |                |          |
| 308 |            | 07:30:00 |                            | Crew change Dayshift take over swabbing operations |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 309 |            | 08:05:00 |                            | Swab#125 Tag@350m Pull@1265m                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 310 |            | 08:05:00 |                            | 0.00   | 112.0  |        | 6451.0    |        |      |      | 0.00  |         |          | 1.77   | 90.0 | 33.85   | 295.55    | 130000         | 6.0      |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |  |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |      |         |           |                |          |
|-----|------------|----------|----------------------------|--|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|------|---------|-----------|----------------|----------|
|     | Date       | Time     | ve                         | Choke  | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW  | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm   | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %    | m³      | m³        | ppm            |          |
| 311 | 30/03/2011 | 08:10:00 |                            | Shipped vessel to 400bbl tank                                      |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 312 |            | 08:35:00 |                            | Swab#126 Tag@625m Pull@1265m (NOTE 1.5%H²S determined by Kitigawa) |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 313 |            | 08:35:00 |                            | 0.00   | -1.0   |        | 6453.0    |        |      |      | 0.00  |         |          | 1.60   | 60.0 | 34.49   | 296.51    |                |          |
| 314 |            | 08:50:00 |                            | Swab#127 Tag@620m Pull@1265m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 315 |            | 08:50:00 |                            | 0.00   | 2657.0 |        | 6410.0    |        |      |      | 0.00  |         |          | 1.86   | 95.0 | 34.59   | 298.27    |                |          |
| 316 |            | 09:10:00 |                            | Swab#128 Tag@560m Pull@1265m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 317 |            | 09:10:00 |                            | 0.00   | 304.0  |        | 6326.0    |        |      |      | 0.00  |         |          | 1.54   | 70.0 | 35.05   | 299.35    |                |          |
| 318 |            | 09:10:00 |                            | Shipped to 400bbl tank   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 319 |            | 09:20:00 |                            | Well began slugging fluid  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 320 |            | 09:30:00 |                            | 0.00   | 12.0   |        | 6434.0    |        |      |      | 0.00  |         |          | 0.70   | 85.0 | 35.15   | 299.95    |                |          |
| 321 |            | 09:45:00 |                            | Swab#129 tag@670m Pull@1265m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 322 |            | 09:45:00 |                            | 0.00   | -1.0   |        | 6387.0    |        |      |      | 0.00  |         |          | 1.31   | 70.0 | 35.55   | 300.86    | 130000         | 6.0      |
| 323 |            | 10:00:00 |                            | Swab#130 Tag@570m Pull@1265m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 324 |            | 10:00:00 |                            | 0.00   | 285.0  |        | 6320.0    |        |      |      | 0.00  |         |          | 1.85   | 95.0 | 35.64   | 302.62    |                |          |
| 325 |            | 10:20:00 |                            | Swab#131 Tag@420m Pull@1265m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 326 |            | 10:20:00 |                            | 0.00   | 438.0  |        | 6306.0    |        |      |      | 0.00  |         |          | 1.64   | 70.0 | 36.13   | 303.77    |                |          |
| 327 |            | 10:20:00 |                            | ship to 400bbl tank  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 328 |            | 10:45:00 |                            | Swab#132 tag@175m Pull@1100m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 329 |            | 10:45:00 |                            | 0.00   | 36.0   |        | 6332.0    |        |      |      | 0.00  |         |          | 1.10   | 60.0 | 36.57   | 304.43    |                |          |
| 330 |            | 11:00:00 |                            | Swab#133 Tag@650m Pull@1265m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 331 |            | 11:00:00 |                            | 0.00   | -1.0   |        | 6328.0    |        |      |      | 0.00  |         |          | 1.64   | 90.0 | 36.73   | 305.91    | 130000         | 6.0      |
| 332 |            | 11:20:00 |                            | Swab#134 Tag@480m Pull@1265m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 333 |            | 11:20:00 |                            | 0.00   | 356.0  |        | 6276.0    |        |      |      | 0.00  |         |          | 1.68   | 95.0 | 36.82   | 307.50    |                |          |
| 334 |            | 11:20:00 |                            | Ship to 400bbl tank  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 335 |            | 11:45:00 |                            | Swab#135 Tag@330m Pull@1265m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 336 |            | 11:45:00 |                            | 0.00   | 64.0   |        | 6334.0    |        |      |      | 0.00  |         |          | 1.57   | 80.0 | 37.13   | 308.76    |                |          |
| 337 |            | 12:00:00 |                            | Swab#136 Tag@650m Pull@1265m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 338 |            | 12:00:00 |                            | 0.00   | 113.0  |        | 6274.0    |        |      |      | 0.00  |         |          | 1.59   | 90.0 | 37.29   | 310.19    |                |          |
| 339 |            | 12:20:00 |                            | Swab#137 Tag@420m Pull@1265m                                       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 340 |            | 12:20:00 |                            | 0.00   | 312.0  |        | 6317.0    |        |      |      | 0.00  |         |          | 1.74   | 90.0 | 37.46   | 311.76    | 130000         | 6.0      |
| 341 |            | 12:20:00 |                            | Ship to 400bbl tank  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |



### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |   |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |      |         |           |                |          |
|-----|------------|----------|----------------------------|---|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|------|---------|-----------|----------------|----------|
|     | Date       | Time     | ver                        | Choke   | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW  | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm  | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %    | m³      | m³        | ppm            |          |
| 342 | 30/03/2011 | 12:45:00 |                            | Swab#138 Tag@370m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 343 |            | 12:45:00 |                            | 0.00  | 33.0   |        | 6330.0    |        |      |      | 0.00  |         |          | 1.50   | 90.0 | 37.61   | 313.11    |                |          |
| 344 |            | 13:00:00 |                            | Swab#139 Tag@670m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 345 |            | 13:00:00 |                            | 0.00  | 28.0   |        | 6267.0    |        |      |      | 0.00  |         |          | 1.66   | 80.0 | 37.95   | 314.43    |                |          |
| 346 |            | 13:15:00 |                            | Swab#140 Tag@440m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 347 |            | 13:15:00 |                            | 0.00  | 180.0  |        | 6245.0    |        |      |      | 0.00  |         |          | 1.64   | 80.0 | 38.27   | 315.75    | 130000         | 6.0      |
| 348 |            | 13:20:00 |                            | Ship to 400bbl tank   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 349 |            | 13:45:00 |                            | Swab#141 tag@400m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 350 |            | 13:45:00 |                            | 0.00  | 66.0   |        | 6317.0    |        |      |      | 0.00  |         |          | 1.40   | 90.0 | 38.41   | 317.01    |                |          |
| 351 |            | 14:00:00 |                            | Swab#142 Tag@655m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 352 |            | 14:00:00 |                            | 0.00  | -1.0   |        | 6320.0    |        |      |      | 0.00  |         |          | 1.56   | 80.0 | 38.73   | 318.25    |                |          |
| 353 |            | 14:15:00 |                            | Swab#143 Tag@500m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 354 |            | 14:15:00 |                            | 0.00  | 260.0  |        | 6209.0    |        |      |      | 0.00  |         |          | 1.84   | 95.0 | 38.82   | 320.00    |                |          |
| 355 |            | 14:20:00 |                            | ship to 400bbl tank   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 356 |            | 14:45:00 |                            | Swab#144 Tag@220m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 357 |            | 14:45:00 |                            | 0.00  | 66.0   |        | 6234.0    |        |      |      | 0.00  |         |          | 1.50   | 60.0 | 39.42   | 320.90    | 120000         | 6.0      |
| 358 |            | 15:00:00 |                            | Swab#145 Tag@655m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 359 |            | 15:00:00 |                            | 0.00  | 0.0    |        | 6285.0    |        |      |      | 0.00  |         |          | 1.66   | 90.0 | 39.58   | 322.40    |                |          |
| 360 |            | 15:20:00 |                            | Swab#146 tag@500m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 361 |            | 15:20:00 |                            | 0.00  | 134.0  |        | 6234.0    |        |      |      | 0.00  |         |          | 1.74   | 70.0 | 40.11   | 323.61    |                |          |
| 362 |            | 15:20:00 |                            | Ship to 400bbl tank   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 363 |            | 15:20:00 |                            | NOTE API@60F 35.3, Specific gravity, .8483 Density 848.3kg/m³ |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 364 |            | 15:45:00 |                            | Swab#147 Tag@425m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 365 |            | 15:45:00 |                            | 0.00  | 107.0  |        | 6287.0    |        |      |      | 0.00  |         |          | 1.43   | 95.0 | 40.18   | 324.97    |                |          |
| 366 |            | 16:00:00 |                            | Swab#148 tag@660m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 367 |            | 16:00:00 |                            | 0.00  | 0.0    |        | 6312.0    |        |      |      | 0.00  |         |          | 1.43   | 95.0 | 40.25   | 326.33    |                |          |
| 368 |            | 16:20:00 |                            | Swab#149 Tag@540m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 369 |            | 16:20:00 |                            | 0.00  | 185.0  |        | 6238.0    |        |      |      | 0.00  |         |          | 1.84   | 95.0 | 40.34   | 328.08    | 130000         | 6.0      |
| 370 |            | 16:20:00 |                            | Ship to 400bbl tank   |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 371 |            | 16:45:00 |                            | Swab#150 tag@500m Pull@1265m                                  |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 372 |            | 16:45:00 |                            | 0.00  | 190.0  |        | 6280.0    |        |      |      | 0.00  |         |          | 1.50   | 70.0 | 40.79   | 329.13    |                |          |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730   |        |        |        | Orifice 1 |      |      |       |         |       | Volume 2 |       |         |           |                |          |
|-----|------------|----------|------------------------------|--------|--------|--------|-----------|------|------|-------|---------|-------|----------|-------|---------|-----------|----------------|----------|
|     | Date       | Time     | Choke                        | Tubing | Tubing | Casing | Static    | Temp | Diff | Plate | Rate    | Cum   | Volume   | BSW   | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss | mm                           | kPag   | °C     | kPag   | kPag      | °C   | kPa  | mm    | 10³m³/d | 10³m³ | (l) m³   | %     | m³      | m³        | ppm            |          |
| 373 | 30/03/2011 | 17:00:00 | Swab#151 tag@660m Pull@1265m |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 374 |            | 17:00:00 | 0.00                         | 0.0    |        | 6300.0 |           |      |      | 0.00  |         |       | 1.46     | 50.0  | 41.52   | 329.86    |                |          |
| 375 |            | 17:20:00 | Swab#152 Tag@500m Pull@1265m |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 376 |            | 17:20:00 | 0.00                         | 262.0  |        | 6198.0 |           |      |      | 0.00  |         |       | 1.84     | 95.0  | 41.61   | 331.61    | 120000         | 6.0      |
| 377 |            | 17:20:00 | Ship to 400bbl tank          |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 378 |            | 17:45:00 | Swab#153 tag@280m Pull@1265m |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 379 |            | 17:45:00 | 0.00                         | 30.0   |        | 6261.0 |           |      |      | 0.00  |         |       | 1.50     | 90.0  | 41.76   | 332.96    |                |          |
| 380 |            | 18:00:00 | Swab#154 tag@635m Pull@1265m |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 381 |            | 18:00:00 | 0.00                         | 104.0  |        | 6214.0 |           |      |      | 0.00  |         |       | 1.66     | 80.0  | 42.10   | 334.28    |                |          |
| 382 |            | 18:20:00 | Swab#155 Tag@470m Pull@1265m |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 383 |            | 18:20:00 | 0.00                         | 349.0  |        | 6187.0 |           |      |      | 0.00  |         |       | 1.74     | 90.0  | 42.27   | 335.85    |                |          |
| 384 |            | 18:20:00 | Ship to 400bbl tank          |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 385 |            | 18:50:00 | Swab#156 tag@150m Pull@1265m |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 386 |            | 18:50:00 | 0.00                         | 11.0   |        | 6255.0 |           |      |      | 0.00  |         |       | 1.60     | 80.0  | 42.59   | 337.13    | 120000         | 6.0      |
| 387 |            | 19:20:00 | Swab#157 Tag@620m Pull@1265m |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 388 |            | 19:20:00 | 0.00                         | 102.0  |        | 6282.0 |           |      |      | 0.00  |         |       | 1.86     | 95.0  | 42.68   | 338.90    |                |          |
| 389 |            | 19:35:00 | Swab#158 Tag@660m Pull@1265m |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 390 |            | 19:35:00 | 0.00                         | 0.0    |        | 6246.0 |           |      |      | 0.00  |         |       | 1.22     | 95.0  | 42.74   | 340.06    |                |          |
| 391 |            | 19:45:00 | shipped to 400bbl            |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 392 |            | 20:00:00 | swab # 159 tag 480 pull 1265 |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 393 |            | 20:00:00 | 0.00                         | 80.0   |        | 6293.0 |           |      |      | 0.00  |         |       | 1.38     | 100.0 | 42.74   | 341.44    | 120000         | 6.0      |
| 394 |            | 20:15:00 | swab # 160 tag 640 pull 1265 |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 395 |            | 20:15:00 | 0.00                         | 5.0    |        | 6348.0 |           |      |      | 0.00  |         |       | 1.14     | 45.0  | 43.37   | 341.95    |                |          |
| 396 |            | 20:20:00 | shipped to 400bbl            |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 397 |            | 20:35:00 | swab # 161 tag 660 pull 1265 |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 398 |            | 20:35:00 | 0.00                         | 3.0    |        | 6360.0 |           |      |      | 0.00  |         |       | 1.37     | 90.0  | 43.51   | 343.18    |                |          |
| 399 |            | 20:50:00 | swab # 162 tag 590 1265      |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 400 |            | 20:50:00 | 0.00                         | 200.0  |        | 6340.0 |           |      |      | 0.00  |         |       | 1.25     | 60.0  | 44.01   | 343.93    |                |          |
| 401 |            | 21:05:00 | swab # 163 tag 650 pull 1265 |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |
| 402 |            | 21:05:00 | 0.00                         | 1.0    |        | 6307.0 |           |      |      | 0.00  |         |       | 1.32     | 50.0  | 44.67   | 344.59    |                |          |
| 403 |            | 21:20:00 | swab # 164 tag 450 pull 1265 |        |        |        |           |      |      |       |         |       |          |       |         |           |                |          |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730        |       |        |        | Orifice 1 |        |      |      |       |                                   | Volume 2                       |                    |       |                |                |                |          |
|-----|------------|----------|-----------------------------------|-------|--------|--------|-----------|--------|------|------|-------|-----------------------------------|--------------------------------|--------------------|-------|----------------|----------------|----------------|----------|
|     | Date       | Time     | ver                               | Choke | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate                              | Cum                            | Volume             | BSW   | Oil Cum        | Water Cum      | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                                   | mm    | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | (l) m <sup>3</sup> | %     | m <sup>3</sup> | m <sup>3</sup> | ppm            |          |
| 404 | 30/03/2011 | 21:20:00 |                                   | 0.00  | 700.0  |        | 6326.0    |        |      |      | 0.00  |                                   |                                | 1.18               | 75.0  | 44.96          | 345.48         | 120000         | 6.0      |
| 405 |            | 21:30:00 | shipped to 400bbl                 |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 406 |            | 21:45:00 | swab # 165 tag 500 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 407 |            | 21:45:00 |                                   | 0.00  | 15.0   |        | 6325.0    |        |      |      | 0.00  |                                   |                                | 1.30               | 75.0  | 45.29          | 346.45         |                |          |
| 408 |            | 22:05:00 | swab # 166 tag 650 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 409 |            | 22:05:00 |                                   | 0.00  | -1.0   |        | 6335.0    |        |      |      | 0.00  |                                   |                                | 1.11               | 75.0  | 45.57          | 347.28         |                |          |
| 410 |            | 22:20:00 | swab # 167 tag 430 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 411 |            | 22:20:00 |                                   | 0.00  | 300.0  |        | 6292.0    |        |      |      | 0.00  |                                   |                                | 1.43               | 70.0  | 45.99          | 348.29         |                |          |
| 412 |            | 22:35:00 | swab # 168 tag 570 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 413 |            | 22:35:00 |                                   | 0.00  | 500.0  |        | 6342.0    |        |      |      | 0.00  |                                   |                                | 1.43               | 90.0  | 46.14          | 349.57         |                |          |
| 414 |            | 22:45:00 | shipped to 400bbl                 |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 415 |            | 23:05:00 | swab # 169 tag 480 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 416 |            | 23:05:00 |                                   | 0.00  | 5.0    |        | 6230.0    |        |      |      | 0.00  |                                   |                                | 1.30               | 90.0  | 46.27          | 350.74         |                |          |
| 417 |            | 23:20:00 | swab # 170 tag 620 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 418 |            | 23:20:00 |                                   | 0.00  | -1.0   |        | 6320.0    |        |      |      | 0.00  |                                   |                                | 1.06               | 75.0  | 46.53          | 351.54         |                |          |
| 419 |            | 23:35:00 | swab # 171 tag 600 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 420 |            | 23:35:00 |                                   | 0.00  | 600.0  |        | 6254.0    |        |      |      | 0.00  |                                   |                                | 1.56               | 80.0  | 46.84          | 352.79         |                |          |
| 421 |            | 23:50:00 | swab # 172 tag 500 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 422 |            | 23:50:00 |                                   | 0.00  | 500.0  |        | 6316.0    |        |      |      | 0.00  |                                   |                                | 1.35               | 80.0  | 47.11          | 353.87         | 120000         | 6.0      |
| 423 | 31/03/2011 | 00:00:00 | shipped to 400bbl                 |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 424 |            | 00:20:00 | swab # 173 tag 350 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 425 |            | 00:20:00 |                                   | 0.00  | 5.0    |        | 6319.0    |        |      |      | 0.00  |                                   |                                | 1.16               | 50.0  | 47.69          | 354.45         |                |          |
| 426 |            | 00:35:00 | swab # 174 tag 660 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 427 |            | 00:35:00 |                                   | 0.00  | 14.0   |        | 6344.0    |        |      |      | 0.00  |                                   |                                | 0.83               | 80.0  | 47.86          | 355.11         |                |          |
| 428 |            | 00:50:00 | swab # 175 tag 630 pull 1265 1cup |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 429 |            | 00:50:00 |                                   | 0.00  | 5.0    |        | 6333.0    |        |      |      | 0.00  |                                   |                                | 1.12               | 100.0 | 47.86          | 356.23         |                |          |
| 430 |            | 01:10:00 | swab # 176 tag 690 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 431 |            | 01:10:00 |                                   | 0.00  | 100.0  |        | 6303.0    |        |      |      | 0.00  |                                   |                                | 1.62               | 60.0  | 48.51          | 357.20         |                |          |
| 432 |            | 01:30:00 | swab # 177 tag 560 pull 1265      |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 433 |            | 01:30:00 |                                   | 0.00  | 400.0  |        | 6232.0    |        |      |      | 0.00  |                                   |                                | 1.57               | 75.0  | 48.90          | 358.38         |                |          |
| 434 |            | 01:45:00 | shipped to 400bbl                 |       |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |                              |        |        | Orifice 1 |        |      |      |       |                                   | Volume 2                       |                    |       |                |                |                |          |
|-----|------------|----------|----------------------------|------------------------------|--------|--------|-----------|--------|------|------|-------|-----------------------------------|--------------------------------|--------------------|-------|----------------|----------------|----------------|----------|
|     | Date       | Time     | ver                        | Choke                        | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate                              | Cum                            | Volume             | BSW   | Oil Cum        | Water Cum      | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm                           | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | (l) m <sup>3</sup> | %     | m <sup>3</sup> | m <sup>3</sup> | ppm            |          |
| 435 | 31/03/2011 | 02:00:00 |                            | swab # 178 tag 350 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 436 |            | 02:00:00 |                            | 0.00                         | 30.0   |        | 6329.0    |        |      |      | 0.00  |                                   |                                | 1.58               | 35.0  | 49.93          | 358.93         |                |          |
| 437 |            | 02:20:00 |                            | swab # 179 tag 650 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 438 |            | 02:20:00 |                            | 0.00                         | 200.0  |        | 6264.0    |        |      |      | 0.00  |                                   |                                | 1.38               | 40.0  | 50.76          | 359.48         |                |          |
| 439 |            | 02:35:00 |                            | swab # 180 tag 450 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 440 |            | 02:35:00 |                            | 0.00                         | 200.0  |        | 6226.0    |        |      |      | 0.00  |                                   |                                | 1.62               | 70.0  | 51.24          | 360.62         |                |          |
| 441 |            | 02:50:00 |                            | swab # 181 tag 350 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 442 |            | 02:50:00 |                            | 0.00                         | 500.0  |        | 6205.0    |        |      |      | 0.00  |                                   |                                | 1.17               | 95.0  | 51.30          | 361.73         |                |          |
| 443 |            | 03:00:00 |                            | shipped to 400bbl            |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 444 |            | 03:15:00 |                            | swab # 182 tag 270 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 445 |            | 03:15:00 |                            | 0.00                         | 100.0  |        | 6253.0    |        |      |      | 0.00  |                                   |                                | 1.37               | 60.0  | 51.85          | 362.55         |                |          |
| 446 |            | 03:30:00 |                            | swab # 183 tag 650 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 447 |            | 03:30:00 |                            | 0.00                         | 80.0   |        | 6217.0    |        |      |      | 0.00  |                                   |                                | 1.23               | 60.0  | 52.34          | 363.29         |                |          |
| 448 |            | 03:45:00 |                            | swab # 184 tag 520 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 449 |            | 03:45:00 |                            | 0.00                         | 100.0  |        | 6194.0    |        |      |      | 0.00  |                                   |                                | 1.83               | 90.0  | 52.52          | 364.94         |                |          |
| 450 |            | 04:00:00 |                            | swab # 185 tag 300 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 451 |            | 04:00:00 |                            | 0.00                         | 400.0  |        | 6213.0    |        |      |      | 0.00  |                                   |                                | 1.18               | 90.0  | 52.64          | 366.00         | 130000         | 6.0      |
| 452 |            | 04:10:00 |                            | shipped to 400bbl            |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 453 |            | 04:30:00 |                            | swab # 186 tag 300 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 454 |            | 04:30:00 |                            | 0.00                         | 20.0   |        | 6234.0    |        |      |      | 0.00  |                                   |                                | 1.37               | 20.0  | 53.74          | 366.27         |                |          |
| 455 |            | 04:45:00 |                            | swab # 187 tag 660 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 456 |            | 04:45:00 |                            | 0.00                         | 10.0   |        | 6219.0    |        |      |      | 0.00  |                                   |                                | 1.24               | 90.0  | 53.86          | 367.39         |                |          |
| 457 |            | 05:00:00 |                            | swab # 188 tag 500 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 458 |            | 05:00:00 |                            | 0.00                         | 200.0  |        | 6175.0    |        |      |      | 0.00  |                                   |                                | 1.82               | 75.0  | 54.32          | 368.75         |                |          |
| 459 |            | 05:15:00 |                            | swab # 189 tag 400 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 460 |            | 05:15:00 |                            | 0.00                         | 200.0  |        | 6162.0    |        |      |      | 0.00  |                                   |                                | 1.35               | 90.0  | 54.45          | 369.97         | 120000         | 6.0      |
| 461 |            | 05:25:00 |                            | shipped to 400bbl            |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 462 |            | 05:45:00 |                            | swab # 190 tag 330 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 463 |            | 05:45:00 |                            | 0.00                         | 2.0    |        | 6234.0    |        |      |      | 0.00  |                                   |                                | 1.51               | 100.0 | 54.45          | 371.48         |                |          |
| 464 |            | 06:00:00 |                            | swab # 191 tag 670 pull 1265 |        |        |           |        |      |      |       |                                   |                                |                    |       |                |                |                |          |
| 465 |            | 06:00:00 |                            | 0.00                         | -1.0   |        | 6202.0    |        |      |      | 0.00  |                                   |                                | 1.30               | 20.0  | 55.49          | 371.74         |                |          |

## Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730                   |       |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |      |         |           |                |          |
|-----|------------|----------|--|-------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|------|---------|-----------|----------------|----------|
|     | Date       | Time     | Vel  | Choke | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW  | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |  | mm    | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %    | m³      | m³        | ppm            |          |
| 466 | 31/03/2011 | 06:05:00 | total swabs during report =69                |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 467 |            |          | total fluid recovered during report=102.63m3 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 468 |            |          | total oil recovered during report=22.49m3    |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 469 |            |          | total water recovered during report=80.14m3  |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 470 |            |          | total load left to recover=119.26m3          |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 471 |            | 06:25:00 | swab # 192 tag 520 pull 1265                 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 472 |            | 06:25:00 |  | 0.00  | 12.0   |        | 6428.0    |        |      |      | 0.00  |         |          | 1.62   | 75.0 | 55.90   | 372.95    |                |          |
| 473 |            | 06:40:00 | swab # 193 tag 590 pull 1265                 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 474 |            | 06:40:00 |  | 0.00  | 300.0  |        | 6291.0    |        |      |      | 0.00  |         |          | 1.14   | 40.0 | 56.58   | 373.41    | 130000         | 6.0      |
| 475 |            | 06:50:00 | shipped to 400bbl                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 476 |            | 07:10:00 | swab # 194 tag 500 pull 1265                 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 477 |            | 07:10:00 |  | 0.00  | 5.0    |        | 6255.0    |        |      |      | 0.00  |         |          | 1.51   | 80.0 | 56.88   | 374.62    |                |          |
| 478 |            | 07:30:00 | swab # 195 tag 645 pull 1265 1cup            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 479 |            | 07:30:00 |  | 0.00  | 100.0  |        | 6283.0    |        |      |      | 0.00  |         |          | 1.59   | 50.0 | 57.68   | 375.41    |                |          |
| 480 |            | 07:30:00 | Crew change                                  |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 481 |            | 07:50:00 | Swab#196 Tag@600m Pull@1265m                 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 482 |            | 07:50:00 |  | 0.00  | 207.0  |        | 6289.0    |        |      |      | 0.00  |         |          | 1.70   | 90.0 | 57.85   | 376.94    |                |          |
| 483 |            | 07:50:00 | Ship to 400bbl tank                          |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 484 |            | 08:20:00 | Swab#197 Tag@370m Pull@1265m                 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 485 |            | 08:20:00 |  | 0.00  | 50.0   |        | 6260.0    |        |      |      | 0.00  |         |          | 1.36   | 90.0 | 57.98   | 378.17    | 120000         | 6.0      |
| 486 |            | 08:35:00 | Swab#198 Tag@650m Pull@1265m                 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 487 |            | 08:35:00 |  | 0.00  | 24.0   |        | 6283.0    |        |      |      | 0.00  |         |          | 1.15   | 85.0 | 58.16   | 379.14    |                |          |
| 488 |            | 08:55:00 | Swab#199 Tag@520m Pull@1265m                 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 489 |            | 08:55:00 |  | 0.00  | 217.0  |        | 6216.0    |        |      |      | 0.00  |         |          | 1.79   | 80.0 | 58.51   | 380.58    |                |          |
| 490 |            | 09:00:00 | Ship to 400bbl tank                          |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 491 |            | 09:20:00 | Swab#200 Tag@370m Pull@1265m                 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 492 |            | 09:20:00 |  | 0.00  | 30.0   |        | 6243.0    |        |      |      | 0.00  |         |          | 1.40   | 90.0 | 58.65   | 381.84    |                |          |
| 493 |            | 09:40:00 | Swab#201 Tag@645m Pull@1265m                 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 494 |            | 09:40:00 |  | 0.00  | 200.0  |        | 6206.0    |        |      |      | 0.00  |         |          | 1.36   | 60.0 | 59.20   | 382.65    |                |          |
| 495 |            | 09:55:00 | Swab#202 Tag@515m Pull@1265m                 |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 496 |            | 09:55:00 |  | 0.00  | 186.0  |        | 6140.0    |        |      |      | 0.00  |         |          | 1.64   | 85.0 | 59.44   | 384.05    | 120000         | 6.0      |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |       |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |      |         |           |                |          |  |
|-----|------------|----------|----------------------------|-------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|------|---------|-----------|----------------|----------|--|
|     | Date       | Time     | ver                        | Choke | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW  | Oil Cum | Water Cum | Water Salinity | Fluid PH |  |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm    | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %    | m³      | m³        | ppm            |          |  |
| 497 | 31/03/2011 | 09:55:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
|     |            |          |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 498 |            | 10:20:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 499 |            | 10:20:00 |                            | 0.00  | 40.0   |        | 6209.0    |        |      |      | 0.00  |         |          | 1.36   | 98.0 | 59.47   | 385.38    |                |          |  |
| 500 |            | 10:40:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 501 |            | 10:40:00 |                            | 0.00  | 118.0  |        | 6218.0    |        |      |      | 0.00  |         |          | 1.50   | 55.0 | 60.15   | 386.20    |                |          |  |
| 502 |            | 10:55:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 503 |            | 10:55:00 |                            | 0.00  | 470.0  |        | 6145.0    |        |      |      | 0.00  |         |          | 1.94   | 80.0 | 60.53   | 387.76    | 120000         | 6.0      |  |
| 504 |            | 10:55:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 505 |            | 11:20:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 506 |            | 11:20:00 |                            | 0.00  | 21.0   |        | 6186.0    |        |      |      | 0.00  |         |          | 1.43   | 90.0 | 60.68   | 389.04    |                |          |  |
| 507 |            | 11:35:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 508 |            | 11:35:00 |                            | 0.00  | 250.0  |        | 6142.0    |        |      |      | 0.00  |         |          | 1.43   | 50.0 | 61.39   | 389.76    |                |          |  |
| 509 |            | 11:55:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 510 |            | 11:55:00 |                            | 0.00  | 370.0  |        | 6120.0    |        |      |      | 0.00  |         |          | 1.84   | 80.0 | 61.76   | 391.23    |                |          |  |
| 511 |            | 11:55:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 512 |            | 12:20:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 513 |            | 12:20:00 |                            | 0.00  | 36.0   |        | 6185.0    |        |      |      | 0.00  |         |          | 1.40   | 85.0 | 61.97   | 392.42    | 120000         | 6.0      |  |
| 514 |            | 12:35:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 515 |            | 12:35:00 |                            | 0.00  | 311.0  |        | 6154.0    |        |      |      | 0.00  |         |          | 1.36   | 55.0 | 62.58   | 393.17    |                |          |  |
| 516 |            | 12:50:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 517 |            | 12:50:00 |                            | 0.00  | 345.0  |        | 6113.0    |        |      |      | 0.00  |         |          | 1.84   | 75.0 | 63.04   | 394.55    |                |          |  |
| 518 |            | 12:50:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 519 |            | 13:20:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 520 |            | 13:20:00 |                            | 0.00  | 35.0   |        | 6181.0    |        |      |      | 0.00  |         |          | 1.43   | 90.0 | 63.19   | 395.83    | 120000         | 6.0      |  |
| 521 |            | 13:35:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 522 |            | 13:35:00 |                            | 0.00  | 166.0  |        | 6142.0    |        |      |      | 0.00  |         |          | 1.56   | 60.0 | 63.81   | 396.77    |                |          |  |
| 523 |            | 13:50:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 524 |            | 13:50:00 |                            | 0.00  | 161.0  |        | 6098.0    |        |      |      | 0.00  |         |          | 1.54   | 80.0 | 64.12   | 398.00    |                |          |  |
| 525 |            | 13:50:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 526 |            | 14:15:00 |                            |       |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |  |
| 527 |            | 14:15:00 |                            | 0.00  | 41.0   |        | 6158.0    |        |      |      | 0.00  |         |          | 1.50   | 95.0 | 64.19   | 399.43    |                |          |  |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |                              |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |      |         |           |                |          |
|-----|------------|----------|----------------------------|------------------------------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|------|---------|-----------|----------------|----------|
|     | Date       | Time     | Vel                        | Choke                        | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW  | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm                           | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %    | m³      | m³        | ppm            |          |
| 528 | 31/03/2011 | 14:30:00 |                            | Swab#216 Tag@640m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 529 |            | 14:30:00 |                            | 0.00                         | 302.0  |        | 6129.0    |        |      |      | 0.00  |         |          | 1.66   | 85.0 | 64.44   | 400.84    | 120000         | 6.0      |
| 530 |            | 14:50:00 |                            | Swab#217 Tag@490m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 531 |            | 14:50:00 |                            | 0.00                         | 415.0  |        | 6100.0    |        |      |      | 0.00  |         |          | 1.64   | 55.0 | 65.18   | 401.74    |                |          |
| 532 |            | 14:50:00 |                            | Ship to 400bbl tank          |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 533 |            | 15:15:00 |                            | Swab#218 tag@330m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 534 |            | 15:15:00 |                            | 0.00                         | 54.0   |        | 6125.0    |        |      |      | 0.00  |         |          | 1.50   | 80.0 | 65.48   | 402.94    |                |          |
| 535 |            | 15:30:00 |                            | Swab#219 Tag@550m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 536 |            | 15:30:00 |                            | 0.00                         | 121.0  |        | 6092.0    |        |      |      | 0.00  |         |          | 1.56   | 95.0 | 65.56   | 404.42    |                |          |
| 537 |            | 15:45:00 |                            | Swab#220 Tag@415m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 538 |            | 15:45:00 |                            | 0.00                         | 120.0  |        | 6085.0    |        |      |      | 0.00  |         |          | 1.44   | 80.0 | 65.85   | 405.57    |                |          |
| 539 |            | 15:45:00 |                            | Ship to 400bbl tank          |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 540 |            | 16:10:00 |                            | Swab#221 Tag@330m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 541 |            | 16:10:00 |                            | 0.00                         | 63.0   |        | 6152.0    |        |      |      | 0.00  |         |          | 1.36   | 90.0 | 65.98   | 406.80    | 120000         | 6.0      |
| 542 |            | 16:25:00 |                            | Swab#222 Tag@660m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 543 |            | 16:25:00 |                            | 0.00                         | 0.0    |        | 6178.0    |        |      |      | 0.00  |         |          | 1.20   | 50.0 | 66.58   | 407.40    |                |          |
| 544 |            | 16:45:00 |                            | Swab#223 Tag@590m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 545 |            | 16:45:00 |                            | 0.00                         | 439.0  |        | 6117.0    |        |      |      | 0.00  |         |          | 1.84   | 95.0 | 66.67   | 409.15    |                |          |
| 546 |            | 16:45:00 |                            | Ship to 400bbl tank          |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 547 |            | 17:10:00 |                            | Swab#224 Tag@500m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 548 |            | 17:10:00 |                            | 0.00                         | 178.0  |        | 6130.0    |        |      |      | 0.00  |         |          | 1.50   | 70.0 | 67.12   | 410.20    | 120000         | 6.0      |
| 549 |            | 17:25:00 |                            | Swab#225 tag@500m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 550 |            | 17:25:00 |                            | 0.00                         | 107.0  |        | 6080.0    |        |      |      | 0.00  |         |          | 1.46   | 95.0 | 67.20   | 411.58    |                |          |
| 551 |            | 17:40:00 |                            | Swab#226 Tag@325m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 552 |            | 17:40:00 |                            | 0.00                         | 190.0  |        | 6053.0    |        |      |      | 0.00  |         |          | 1.84   | 95.0 | 67.29   | 413.33    |                |          |
| 553 |            | 17:40:00 |                            | Ship to 400bbl tank          |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 554 |            | 18:05:00 |                            | Swab#227 Tag@180m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 555 |            | 18:05:00 |                            | 0.00                         | 11.0   |        | 6102.0    |        |      |      | 0.00  |         |          | 1.50   | 80.0 | 67.59   | 414.53    |                |          |
| 556 |            | 18:20:00 |                            | Swab#228 Tag@585m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |
| 557 |            | 18:20:00 |                            | 0.00                         | 230.0  |        | 6056.0    |        |      |      | 0.00  |         |          | 1.46   | 80.0 | 67.88   | 415.70    | 120000         | 6.0      |
| 558 |            | 18:35:00 |                            | Swab#229 Tag@535m Pull@1265m |        |        |           |        |      |      |       |         |          |        |      |         |           |                |          |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730   |       |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |       |         |           |                |          |
|-----|------------|----------|------------------------------|-------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|-------|---------|-----------|----------------|----------|
|     | Date       | Time     | vel                          | Choke | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW   | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                              | mm    | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %     | m³      | m³        | ppm            |          |
| 559 | 31/03/2011 | 18:35:00 |                              | 0.00  | 380.0  |        | 6027.0    |        |      |      | 0.00  |         |          | 1.74   | 60.0  | 68.58   | 416.74    |                |          |
| 560 |            | 18:40:00 | Ship to 400bbl tank          |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 561 |            | 19:05:00 | Swab#230 Tag@300m Pull@1265m |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 562 |            | 19:05:00 |                              | 0.00  | 25.0   |        | 6182.0    |        |      |      | 0.00  |         |          | 1.50   | 60.0  | 69.18   | 417.64    |                |          |
| 563 |            | 19:25:00 | Swab#231 Tag@650m Pull@1265m |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 564 |            | 19:25:00 |                              | 0.00  | 30.0   |        | 6176.0    |        |      |      | 0.00  |         |          | 1.46   | 85.0  | 69.40   | 418.88    | 120000         | 6.0      |
| 565 |            | 19:45:00 | swab # 232 tag 540 pull 1265 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 566 |            | 19:45:00 |                              | 0.00  | 200.0  |        | 6165.0    |        |      |      | 0.00  |         |          | 1.62   | 10.0  | 70.85   | 419.05    |                |          |
| 567 |            | 20:05:00 | swab # 233 tag 550 pull 1265 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 568 |            | 20:05:00 |                              | 0.00  | 200.0  |        | 6203.0    |        |      |      | 0.00  |         |          | 1.17   | 45.0  | 71.50   | 419.57    | 120000         | 6.0      |
| 569 |            | 20:15:00 | shipped to 400bbl            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 570 |            | 20:30:00 | swab # 234 tag 420 pull 1265 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 571 |            | 20:30:00 |                              | 0.00  | 5.0    |        | 6172.0    |        |      |      | 0.00  |         |          | 1.45   | 100.0 | 71.50   | 421.02    |                |          |
| 572 |            | 20:45:00 | swab # 235 tag 620 pull 1265 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 573 |            | 20:45:00 |                              | 0.00  | 300.0  |        | 6134.0    |        |      |      | 0.00  |         |          | 1.45   | 95.0  | 71.57   | 422.40    |                |          |
| 574 |            | 21:05:00 | swab 236 tag 440 pull 1265   |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 575 |            | 21:05:00 |                              | 0.00  | 9.0    |        | 6097.0    |        |      |      | 0.00  |         |          | 1.47   | 25.0  | 72.67   | 422.77    |                |          |
| 576 |            | 21:25:00 | swab # 237 tag 340 pull 1265 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 577 |            | 21:25:00 |                              | 0.00  | 400.0  |        | 6164.0    |        |      |      | 0.00  |         |          | 1.32   | 95.0  | 72.74   | 424.02    |                |          |
| 578 |            | 21:35:00 | shipped to 400bbl            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 579 |            | 21:50:00 | swab # 238 tag 290 pull 1265 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 580 |            | 21:50:00 |                              | 0.00  | 4.0    |        | 6133.0    |        |      |      | 0.00  |         |          | 1.58   | 90.0  | 72.90   | 425.44    |                |          |
| 581 |            | 22:10:00 | swab # 239 tag 600 pull 1265 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 582 |            | 22:10:00 |                              | 0.00  | 500.0  |        | 6135.0    |        |      |      | 0.00  |         |          | 1.38   | 10.0  | 74.14   | 425.58    |                |          |
| 583 |            | 22:25:00 | swab # 240 tag 600 pull 1265 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 584 |            | 22:25:00 |                              | 0.00  | 200.0  |        | 6100.0    |        |      |      | 0.00  |         |          | 1.62   | 75.0  | 74.54   | 426.80    |                |          |
| 585 |            | 22:40:00 | swab # 241 tag 290 pull 1265 |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 586 |            | 22:40:00 |                              | 0.00  | 300.0  |        | 6129.0    |        |      |      | 0.00  |         |          | 0.99   | 100.0 | 74.54   | 427.79    | 120000         | 6.0      |
| 587 |            | 22:50:00 | shipped to 400bbl            |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 588 |            | 22:55:00 | well kicked a little         |       |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 589 |            | 23:00:00 |                              | 0.00  | 30.0   |        | 6126.0    |        |      |      | 0.00  |         |          | 0.71   | 90.0  | 74.61   | 428.43    |                |          |



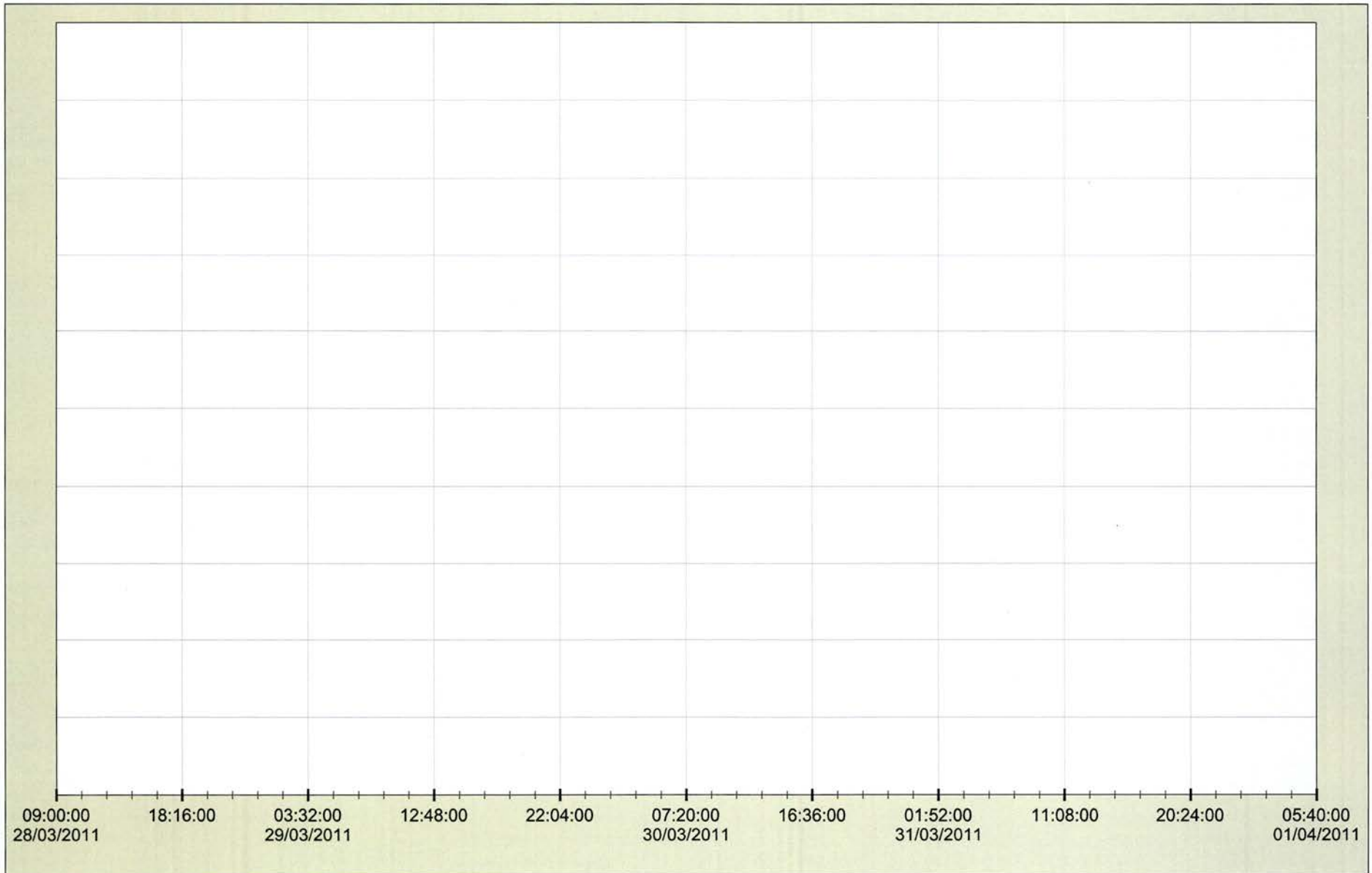
### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |                              |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |       |         |           |                |          |
|-----|------------|----------|----------------------------|------------------------------|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|-------|---------|-----------|----------------|----------|
|     | Date       | Time     | ver                        | Choke                        | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW   | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm                           | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %     | m³      | m³        | ppm            |          |
| 590 | 31/03/2011 | 23:20:00 |                            | swab # 242 tag 700 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 591 |            | 23:20:00 |                            | 0.00                         | 8.0    |        | 6170.0    |        |      |      | 0.00  |         |          | 1.21   | 80.0  | 74.86   | 429.39    |                |          |
| 592 |            | 23:35:00 |                            | swab # 243 tag 690 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 593 |            | 23:35:00 |                            | 0.00                         | -1.0   |        | 6159.0    |        |      |      | 0.00  |         |          | 1.26   | 90.0  | 74.98   | 430.53    |                |          |
| 594 |            | 23:50:00 |                            | swab # 244 tag 550 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 595 |            | 23:50:00 |                            | 0.00                         | 500.0  |        | 6122.0    |        |      |      | 0.00  |         |          | 1.40   | 75.0  | 75.33   | 431.58    |                |          |
| 596 | 01/04/2011 | 00:05:00 |                            | swab # 245 tag 600 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 597 |            | 00:05:00 |                            | 0.00                         | 650.0  |        | 6170.0    |        |      |      | 0.00  |         |          | 1.45   | 75.0  | 75.69   | 432.67    |                |          |
| 598 |            | 00:20:00 |                            | shipped to 400bbl            |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 599 |            | 00:25:00 |                            | well kicked                  |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 600 |            | 00:25:00 |                            | 0.00                         | 30.0   |        | 6157.0    |        |      |      | 0.00  |         |          | 0.65   | 85.0  | 75.79   | 433.22    |                |          |
| 601 |            | 00:45:00 |                            | swab # 246 tag 670 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 602 |            | 00:45:00 |                            | 0.00                         | -1.0   |        | 6174.0    |        |      |      | 0.00  |         |          | 1.39   | 60.0  | 76.35   | 434.05    | 120000         | 6.0      |
| 603 |            | 01:00:00 |                            | swab # 247 tag 600 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 604 |            | 01:00:00 |                            | 0.00                         | 200.0  |        | 6129.0    |        |      |      | 0.00  |         |          | 1.45   | 100.0 | 76.35   | 435.50    |                |          |
| 605 |            | 01:20:00 |                            | swab # 248 tag 460 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 606 |            | 01:20:00 |                            | 0.00                         | 400.0  |        | 6161.0    |        |      |      | 0.00  |         |          | 1.09   | 10.0  | 77.33   | 435.61    |                |          |
| 607 |            | 01:30:00 |                            | shipped to 400bbl            |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 608 |            | 01:45:00 |                            | swab # 249 tag 250 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 609 |            | 01:45:00 |                            | 0.00                         | 7.0    |        | 6141.0    |        |      |      | 0.00  |         |          | 1.38   | 100.0 | 77.33   | 436.99    |                |          |
| 610 |            | 02:00:00 |                            | swab # 250 tag 580 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 611 |            | 02:00:00 |                            | 0.00                         | 150.0  |        | 6136.0    |        |      |      | 0.00  |         |          | 1.39   | 80.0  | 77.61   | 438.10    |                |          |
| 612 |            | 02:20:00 |                            | swab # 251 tag 540 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 613 |            | 02:20:00 |                            | 0.00                         | 100.0  |        | 6123.0    |        |      |      | 0.00  |         |          | 1.50   | 30.0  | 78.66   | 438.55    |                |          |
| 614 |            | 02:40:00 |                            | swab # 252 tag 470 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 615 |            | 02:40:00 |                            | 0.00                         | 200.0  |        | 6154.0    |        |      |      | 0.00  |         |          | 1.34   | 80.0  | 78.92   | 439.63    |                |          |
| 616 |            | 02:50:00 |                            | shipped to 400bbl            |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 617 |            | 03:05:00 |                            | swab # 253 tag 280 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 618 |            | 03:05:00 |                            | 0.00                         | 26.0   |        | 6158.0    |        |      |      | 0.00  |         |          | 1.37   | 100.0 | 78.92   | 441.00    |                |          |
| 619 |            | 03:20:00 |                            | swab # 254 tag 660 pull 1265 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 620 |            | 03:20:00 |                            | 0.00                         | 200.0  |        | 6161.0    |        |      |      | 0.00  |         |          | 1.37   | 5.0   | 80.23   | 441.06    |                |          |

### Grid

|     | Test Time  |          | Well: 300/2H-03/6010-11730 |  |        |        | Orifice 1 |        |      |      |       |         | Volume 2 |        |       |         |           |                |          |
|-----|------------|----------|----------------------------|--|--------|--------|-----------|--------|------|------|-------|---------|----------|--------|-------|---------|-----------|----------------|----------|
|     | Date       | Time     | ver                        | Choke  | Tubing | Tubing | Casing    | Static | Temp | Diff | Plate | Rate    | Cum      | Volume | BSW   | Oil Cum | Water Cum | Water Salinity | Fluid PH |
|     | dd/mm/yyyy | hh:mm:ss |                            | mm   | kPag   | °C     | kPag      | kPag   | °C   | kPa  | mm    | 10³m³/d | 10³m³    | (l) m³ | %     | m³      | m³        | ppm            |          |
| 621 | 01/04/2011 | 03:40:00 |                            | swab # 255 tag 620 pull 1265                 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 622 |            | 03:40:00 |                            | 0.00   | 200.0  |        | 6115.0    |        |      |      | 0.00  |         |          | 1.69   | 75.0  | 80.65   | 442.33    |                |          |
| 623 |            | 04:00:00 |                            | swab # 256 tag 390 pull 1265                 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 624 |            | 04:00:00 |                            | 0.00   | 300.0  |        | 6159.0    |        |      |      | 0.00  |         |          | 1.18   | 100.0 | 80.65   | 443.51    |                |          |
| 625 |            | 04:10:00 |                            | shipped to 400bbl                            |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 626 |            | 04:10:00 |                            | well kicked                                  |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 627 |            | 04:15:00 |                            | 0.00   | 21.0   |        | 6164.0    |        |      |      | 0.00  |         |          | 0.72   | 90.0  | 80.72   | 444.16    |                |          |
| 628 |            | 04:35:00 |                            | swab # 257 tag 670 pull 1265                 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 629 |            | 04:35:00 |                            | 0.00   | 2.0    |        | 6172.0    |        |      |      | 0.00  |         |          | 1.24   | 25.0  | 81.65   | 444.47    | 120000         | 6.0      |
| 630 |            | 04:50:00 |                            | swab # 258 tag 630 pull 1265                 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 631 |            | 04:50:00 |                            | 0.00   | 400.0  |        | 6145.0    |        |      |      | 0.00  |         |          | 1.65   | 100.0 | 81.65   | 446.12    |                |          |
| 632 |            | 05:10:00 |                            | swab # 259 tag 570 pull 1265                 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 633 |            | 05:10:00 |                            | 0.00   | 200.0  |        | 6119.0    |        |      |      | 0.00  |         |          | 1.46   | 35.0  | 82.60   | 446.63    |                |          |
| 634 |            | 05:30:00 |                            | swab # 260 tag 350 pull 1265                 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 635 |            | 05:30:00 |                            | 0.00   | 300.0  |        | 6120.0    |        |      |      | 0.00  |         |          | 1.16   | 75.0  | 82.89   | 447.50    |                |          |
| 636 |            | 05:35:00 |                            | total swabs during report=68                 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 637 |            |          |                            | total fluid recovered during report=101.54m3 |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 638 |            |          |                            | total oil recovered during report=26.99m3    |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 639 |            |          |                            | total water recovered during report=74.55m3  |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 640 |            |          |                            | total load fluid left to recover=43.5m3      |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 641 |            | 05:40:00 |                            | Rig out                                      |        |        |           |        |      |      |       |         |          |        |       |         |           |                |          |
| 642 |            |          |                            | 0.00   |        |        |           |        |      |      | 0.00  |         |          |        | 75.0  |         |           |                |          |
| 643 |            |          |                            | 0.00   |        |        |           |        |      |      | 0.00  |         |          |        | 75.0  |         |           |                |          |
| 644 |            |          |                            | 0.00   |        |        |           |        |      |      | 0.00  |         |          |        | 75.0  |         |           |                |          |
| 645 |            |          |                            | 0.00   |        |        |           |        |      |      | 0.00  |         |          |        | 75.0  |         |           |                |          |

# Plot



MAIL ROOM  
SALLE DE COURIER

2011 SEP -6 A 11: 20

NEB/ONE

NATIONAL ENERGY BOARD  
Exploration and Production  
SEP 05 2011

NEB COPY

**1**

TOUR SHEETS

**2**

WELLHEAD SCHEMATIC  
& DETAILS

**3**

DOWNHOLE SCHEMATICS  
& DETAILS

**4**

FRACTURE TREATMENT  
SUMMARY

**5**

SIGNED LAND SURVEY



AVERY® READY INDEX®

600076



**FRONT PAGE SUMMARY**

License No: 2073  
 Operator: PARR, ET AL CAMERON 2H-01 HZ  
 PARAJOUNT RESOURCES LTD  
 100110009  
 Signature of Operator Representative: MICHAEL MCKENZIE

Four Sheet Serial Number: 84424\_20110117\_1A  
 Surface Location: 60 07 20 40N/117 20'00 WOE  
 Vendor Software Version: 2011  
 Month: 01  
 Day: 17

Operator: MAJOR'S DRILLING  
 Contractor's Job No: C673  
 Signature of Contractor's Rig Manager: MICHAEL MCKENZIE

Job Name: 311m  
 Fuel @ 08:00 HOURS  
  


| CODE   | 1     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL |       |
|--------|-------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|
| Hour 1 |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |
| Hour 2 | 8.00  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 8.00  |
| Hour 3 | 2.00  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 2.00  |
| Hour 4 | 10.00 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 10.00 |
| Total  |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 20.00 |

**TOUR 1 SIGNATURE OF DRILLER**

WADE STEVENSON

START TIME 09:00

END TIME 08:00

**DRILLING ASSEMBLY**

|      |                    |    |           |    |    |        |
|------|--------------------|----|-----------|----|----|--------|
| BITs | Bit Number         | No | Component | OO | ID | Length |
|      | Size               |    |           |    |    |        |
|      | LADC Code          |    |           |    |    |        |
|      | Manufacturer       |    |           |    |    |        |
|      | Type               |    |           |    |    |        |
|      | Serial No          |    |           |    |    |        |
|      | Jobs               |    |           |    |    |        |
|      | Depth Out (m)      |    |           |    |    |        |
|      | Depth In (m)       |    |           |    |    |        |
|      | Total Drilled (m)  |    |           |    |    |        |
|      | Has Run Today      |    |           |    |    |        |
|      | Completive Hit Run |    |           |    |    |        |
|      | Entry Data         |    |           |    |    |        |

**HOLE CONDITION**

Tool Drag  or  Down

Toolset at Bottom

Fill on Bottom

**REDUCED PUMP SPEED**

Pump No. Pressure Strokes/min Depth

**DEVIATION SUVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
|                |           |                |                   |                    |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**TIME LOG**

| From  | To    | Elapsed | Code                                | Details of Operations in Sequence & Remarks |
|-------|-------|---------|-------------------------------------|---|
| 09:00 | 07:45 | 7:45:38 | WVD DAYLIGHT                        |   |
| 07:45 | 08:00 | 0:25:51 | SAFETY MEETING WITH MALLEN TRUCKING |   |

**SAFETY**

Safety Topic \_\_\_\_\_

MENL \_\_\_\_\_

MACP \_\_\_\_\_

**TOUR 2 SIGNATURE OF DRILLER**

WADE STEVENSON

START TIME 08:00

END TIME 16:00

**DRILLING ASSEMBLY**

|      |                    |    |           |    |    |        |
|------|--------------------|----|-----------|----|----|--------|
| BITs | Bit Number         | No | Component | OO | ID | Length |
|      | Size               |    |           |    |    |        |
|      | LADC Code          |    |           |    |    |        |
|      | Manufacturer       |    |           |    |    |        |
|      | Type               |    |           |    |    |        |
|      | Serial No          |    |           |    |    |        |
|      | Jobs               |    |           |    |    |        |
|      | Depth Out (m)      |    |           |    |    |        |
|      | Depth In (m)       |    |           |    |    |        |
|      | Total Drilled (m)  |    |           |    |    |        |
|      | Has Run Today      |    |           |    |    |        |
|      | Completive Hit Run |    |           |    |    |        |
|      | Entry Data         |    |           |    |    |        |

**HOLE CONDITION**

Tool Drag  or  Down

Toolset at Bottom

Fill on Bottom

**REDUCED PUMP SPEED**

Pump No. Pressure Strokes/min Depth

**DEVIATION SUVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
|                |           |                |                   |                    |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**TIME LOG**

| From  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks  |
|-------|-------|---------|------|--|
| 08:00 | 16:00 | 8:00:1A | WVD  | COOL UP AND MOVE THE RIG FROM LANE 15 VARD IN RAMBLAND LANE TO NEW LOCATION IN HWY |

**SAFETY**

Safety Topic \_\_\_\_\_

MENL \_\_\_\_\_

MACP \_\_\_\_\_

**TOUR 3 SIGNATURE OF DRILLER**

WADE STEVENSON

START TIME 16:00

END TIME 24:00

**DRILLING ASSEMBLY**

|      |                    |    |           |    |    |        |
|------|--------------------|----|-----------|----|----|--------|
| BITs | Bit Number         | No | Component | OO | ID | Length |
|      | Size               |    |           |    |    |        |
|      | LADC Code          |    |           |    |    |        |
|      | Manufacturer       |    |           |    |    |        |
|      | Type               |    |           |    |    |        |
|      | Serial No          |    |           |    |    |        |
|      | Jobs               |    |           |    |    |        |
|      | Depth Out (m)      |    |           |    |    |        |
|      | Depth In (m)       |    |           |    |    |        |
|      | Total Drilled (m)  |    |           |    |    |        |
|      | Has Run Today      |    |           |    |    |        |
|      | Completive Hit Run |    |           |    |    |        |
|      | Entry Data         |    |           |    |    |        |

**HOLE CONDITION**

Tool Drag  or  Down

Toolset at Bottom

Fill on Bottom

**REDUCED PUMP SPEED**

Pump No. Pressure Strokes/min Depth

**DEVIATION SUVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
|                |           |                |                   |                    |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**TIME LOG**

| From  | To    | Elapsed  | Code                                | Details of Operations in Sequence & Remarks |
|-------|-------|----------|-------------------------------------|---|
| 16:00 | 18:00 | 2:00:1A  | SPOT & RIG UP SHACKS                |   |
| 18:00 | 24:00 | 6:00:28A | WVD DAYLIGHT TO SPOT MAINTING & RIG |   |

**SAFETY**

Safety Topic \_\_\_\_\_

MENL \_\_\_\_\_

MACP \_\_\_\_\_

**FRONT PAGE SUMMARY**

License No: Well Name: 2073 PAVA ET AL CAMERON 2H-03 HZ  
 Operator: PHARMOUNT RESOURCES LTD  
 Operator's AFE: 10N110009  
 User of Operator Representative: BLINGTON

Contractor: MAHORS DRILLING  
 Contractor's Job No: C0473  
 Signature of Contractor's Rig Manager: MICHAEL MCKENZIE

Vendor Software Version: 2011  
 Month: 01  
 Day: 18

| Hour   | Drill | Reaming | Coring | & C.C. | Traps | Rig | Reaper | Out Off | Dew | Wentre | Run Clog | Went On | Went Up | Test | Disturb | Plug | Squeeze | Fishing | Dir | Safety | Tear | Waiting | Rig | Other | TOTAL |
|--------|-------|---------|--------|--------|-------|-----|--------|---------|-----|--------|----------|---------|---------|------|---------|------|---------|---------|-----|--------|------|---------|-----|-------|-------|
| Tour 1 | 7:50  |         |        |        |       |     |        |         |     |        |          |         |         |      |         |      |         |         |     | 0:50   |      | 7:50    |     |       | 8:00  |
| Tour 2 | 8:00  |         |        |        |       |     |        |         |     |        |          |         |         |      |         |      |         |         |     | 0:50   |      | 7:50    |     |       | 8:00  |
| Tour 3 |       |         |        |        |       |     |        |         |     |        |          |         |         |      |         |      |         |         |     | 1:00   |      | 7:50    |     |       | 8:00  |
| Total  | 15:50 |         |        |        |       |     |        |         |     |        |          |         |         |      |         |      |         |         |     |        |      |         |     |       | 24:00 |

**DAILY CHECKS**

- 1) Rig Site (Visual & Spill) Monitor (operator/monitor)
- 2) CADC Rig Safety Inspection (checklist/every month)
- 3) Head Inspection before Blasting or Drilling
- 4) Blow Out Check
- 5) Blow Out Check

**FUEL @ 08:00 HOURS**

| Item     | Quantity | Unit   |
|----------|----------|--------|
| Gasoline | 0.00     | liters |
| Diesel   | 0.00     | liters |
| Propane  | 0.00     | liters |

**TOUR 1 SIGNATURE OF DRILLER**

WADE STEVENSON

**DRILLING ASSEMBLY**

Bit Number: \_\_\_\_\_ Size: \_\_\_\_\_ LUC Code: \_\_\_\_\_ Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Serial No: \_\_\_\_\_ Jaws: \_\_\_\_\_

Depth Out (m): \_\_\_\_\_ Depth In (m): \_\_\_\_\_ Total Drilled (m): \_\_\_\_\_ This Run Today: \_\_\_\_\_ Cumulative This Run: \_\_\_\_\_ Entry Data: \_\_\_\_\_

**CUTTING STRUCTURE**

TI: \_\_\_\_\_ Gauge: \_\_\_\_\_ OOC: \_\_\_\_\_ MOC: \_\_\_\_\_ LOC: \_\_\_\_\_ Total Run (m/h): \_\_\_\_\_

**HOLE CONDITION**

Tools at Bottom: \_\_\_\_\_ Fill on Bottom: \_\_\_\_\_

**MUD RECORD**

Mud Type: \_\_\_\_\_ Water:  Oil:  Other: \_\_\_\_\_

Time: \_\_\_\_\_ Density: \_\_\_\_\_ Funnel Viscosity: \_\_\_\_\_ Fluid Loss: \_\_\_\_\_ pH: \_\_\_\_\_ Location of Sample: \_\_\_\_\_ Depth: \_\_\_\_\_ PVT: \_\_\_\_\_

**CIRCULATION**

Pump Type: \_\_\_\_\_ Size: \_\_\_\_\_ RPM: \_\_\_\_\_ Pressure: \_\_\_\_\_

**REDUCED PUMP SPEED**

Pump No: \_\_\_\_\_ Pressure: \_\_\_\_\_ Stroke/min: \_\_\_\_\_ Depth: \_\_\_\_\_

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
|                |           |                |                   |                    |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**Boiler #** \_\_\_\_\_ Hours Run: \_\_\_\_\_ pH: \_\_\_\_\_ Stack Temp: \_\_\_\_\_

**TIME LOG**

| From  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks   |
|-------|-------|---------|------|---|
| 00:00 | 07:30 | 7:30:28 |      | WFO DAILYLIGHT TO SPOT THE MATTING & RIG  |
| 07:32 | 08:00 | 0:50:21 |      | RIG CREW ORIENTATION AND INTRODUCTION TO THE CAMERON HILLS WINTER DRILLING PROGRAM. DISCUSSED ALL ASPECTS OF THE PHARMOUNT TRIP RIG SAFETY BOOK. SPECIFIC ATTENTION DIRECTED AT PROJECT OVERVIEW, SAFETY, ENVIRONMENTAL ISSUES, THE DRILLING OF THE 2H-03 WELL. |

**SAFETY**

Safety Topic: \_\_\_\_\_

Start Time: 08:00 End Time: 16:00

**TOUR 2 SIGNATURE OF DRILLER**

DUSTIN GIBSON

**DRILLING ASSEMBLY**

Bit Number: \_\_\_\_\_ Size: \_\_\_\_\_ LUC Code: \_\_\_\_\_ Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Serial No: \_\_\_\_\_ Jaws: \_\_\_\_\_

Depth Out (m): \_\_\_\_\_ Depth In (m): \_\_\_\_\_ Total Drilled (m): \_\_\_\_\_ This Run Today: \_\_\_\_\_ Cumulative This Run: \_\_\_\_\_ Entry Data: \_\_\_\_\_

**CUTTING STRUCTURE**

TI: \_\_\_\_\_ Gauge: \_\_\_\_\_ OOC: \_\_\_\_\_ MOC: \_\_\_\_\_ LOC: \_\_\_\_\_ Total Run (m/h): \_\_\_\_\_

**HOLE CONDITION**

Tools at Bottom: \_\_\_\_\_ Fill on Bottom: \_\_\_\_\_

**MUD RECORD**

Mud Type: \_\_\_\_\_ Water:  Oil:  Other: \_\_\_\_\_

Time: \_\_\_\_\_ Density: \_\_\_\_\_ Funnel Viscosity: \_\_\_\_\_ Fluid Loss: \_\_\_\_\_ pH: \_\_\_\_\_ Location of Sample: \_\_\_\_\_ Depth: \_\_\_\_\_ PVT: \_\_\_\_\_

**CIRCULATION**

Pump Type: \_\_\_\_\_ Size: \_\_\_\_\_ RPM: \_\_\_\_\_ Pressure: \_\_\_\_\_

**REDUCED PUMP SPEED**

Pump No: \_\_\_\_\_ Pressure: \_\_\_\_\_ Stroke/min: \_\_\_\_\_ Depth: \_\_\_\_\_

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
|                |           |                |                   |                    |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**Boiler #** \_\_\_\_\_ Hours Run: \_\_\_\_\_ pH: \_\_\_\_\_ Stack Temp: \_\_\_\_\_

**TIME LOG**

| From  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks  |
|-------|-------|---------|------|--|
| 08:00 | 08:30 | 0:50:21 |      | COMBAT TO OBSERVATION AND SAFETY MEETING. HELD PRE RIG MOVE AND RIG UP SAFETY MEETINGS |
| 08:30 | 16:00 | 7:30:14 |      | SPOT MATTING, RIG & SHALE TANK   |

**SAFETY**

Safety Topic: \_\_\_\_\_

Start Time: 08:00 End Time: 16:00

**TOUR 3 SIGNATURE OF DRILLER**

WADE STEVENSON

**DRILLING ASSEMBLY**

Bit Number: \_\_\_\_\_ Size: \_\_\_\_\_ LUC Code: \_\_\_\_\_ Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Serial No: \_\_\_\_\_ Jaws: \_\_\_\_\_

Depth Out (m): \_\_\_\_\_ Depth In (m): \_\_\_\_\_ Total Drilled (m): \_\_\_\_\_ This Run Today: \_\_\_\_\_ Cumulative This Run: \_\_\_\_\_ Entry Data: \_\_\_\_\_

**CUTTING STRUCTURE**

TI: \_\_\_\_\_ Gauge: \_\_\_\_\_ OOC: \_\_\_\_\_ MOC: \_\_\_\_\_ LOC: \_\_\_\_\_ Total Run (m/h): \_\_\_\_\_

**HOLE CONDITION**

Tools at Bottom: \_\_\_\_\_ Fill on Bottom: \_\_\_\_\_

**MUD RECORD**

Mud Type: \_\_\_\_\_ Water:  Oil:  Other: \_\_\_\_\_

Time: \_\_\_\_\_ Density: \_\_\_\_\_ Funnel Viscosity: \_\_\_\_\_ Fluid Loss: \_\_\_\_\_ pH: \_\_\_\_\_ Location of Sample: \_\_\_\_\_ Depth: \_\_\_\_\_ PVT: \_\_\_\_\_

**CIRCULATION**

Pump Type: \_\_\_\_\_ Size: \_\_\_\_\_ RPM: \_\_\_\_\_ Pressure: \_\_\_\_\_

**REDUCED PUMP SPEED**

Pump No: \_\_\_\_\_ Pressure: \_\_\_\_\_ Stroke/min: \_\_\_\_\_ Depth: \_\_\_\_\_

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
|                |           |                |                   |                    |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**Boiler #** \_\_\_\_\_ Hours Run: \_\_\_\_\_ pH: \_\_\_\_\_ Stack Temp: \_\_\_\_\_

**TIME LOG**

| From  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks  |
|-------|-------|---------|------|--|
| 16:00 | 18:00 | 2:00:1  |      | RIG UP 7" UEL, STEAM LINES, AIR, HYDRAULIC LINES & RAISE THE DERRICK / SPOT FUEL TANK, CENTRIFUGE TANK & 400 BBL TANKS |
| 18:00 | 24:00 | 6:00:0  |      | CIRCULATE & MONITOR BOREHOLE, RIGUP POWER CORDS AND 10V UP   |

**SAFETY**

Safety Topic: \_\_\_\_\_

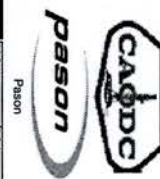
Start Time: 16:00 End Time: 24:00

**FRONT PAGE SUMMARY**

License No 2073 Well Name PAPA ET AL CAMERON 2H 03 HZ  
 Operator PAPA/MOUNT RESOURCES LTD  
 Operator's A/E 10N110009  
 Name of Operator Representative MICHAEL MCKEAT

Four Sheet Serial Number 034424\_20110119\_1A  
 Surface Location 60 02 20 40W/17 20 08 30E  
 Well No 24  
 Well Type HORIZ  
 Spud Date Time 2011/01/20 23:45  
 Rig Release Date Time

Vendor Software Version 2011  
 Month 01  
 Day 19  
 Daily Checks:  
 1) Daily Time zone correction (if using Clock Link)  
 2) HCS Spig Seal tested if Required  
 3) Well Location & Stock Diagram Valid  
 4) Well Location & Stock Diagram Valid  
 5) BOP Data Reviewed  
 6) BOP Data Reviewed  
 7) Weekly Inventory Report - (New Lines & Depleted Lines)  
 8) Well Health & Safety Meeting (post-construction)  
 9) Well Inspection before Drilling of Landed  
 10) Well Inspection before Drilling of Landed



| DE       | 1     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------|-------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Rig      | 1     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| Drill    |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Running  |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Core     |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Conc Mud |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Types    |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Service  |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Hours    |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Tour 1   | 11:72 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Tour 2   | 11:72 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Tour 3   |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Total    | 23:54 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**TOUR 1 SIGNATURE OF DRILLER**

DUSTIN GIBSON

START TIME 00:00 END TIME 12:00

**DRILLING ASSEMBLY**

BITs: Bit Number, Size, LADC Code, Manufacturer, Type, Serial No, JSS

**HOLE CONDITION**

Hole Drag, 9" Down, 10" Down, 11" Down, 12" Down, 13" Down, 14" Down, 15" Down, 16" Down, 17" Down, 18" Down, 19" Down, 20" Down, 21" Down, 22" Down, 23" Down, 24" Down, 25" Down

**MUD RECORD**

Mud Type, Water, Oil, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT, Circulation

**REDUCED PUMP SPEED**

Pump No, Pressure, Stroke/min, Depth

**DEVIATION SURVEYS**

Boiler #, Hours Run, pH, Stack Temp

**SOLIDS CONTROL**

Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density

**MUD MATERIALS ADDED**

Product, Amount, Type

**TIME LOG**

From, To,Elapsed, Code, Details of Operations in Sequence & Remarks

**SAFETY**

Safety Topic, MEHL, MACP

**TOUR 2 SIGNATURE OF DRILLER**

WADE STEVENSON

START TIME 12:00 END TIME 24:00

**DRILLING ASSEMBLY**

BITs: Bit Number, Size, LADC Code, Manufacturer, Type, Serial No, JSS

**HOLE CONDITION**

Hole Drag, 9" Down, 10" Down, 11" Down, 12" Down, 13" Down, 14" Down, 15" Down, 16" Down, 17" Down, 18" Down, 19" Down, 20" Down, 21" Down, 22" Down, 23" Down, 24" Down, 25" Down

**MUD RECORD**

Mud Type, Water, Oil, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT, Circulation

**REDUCED PUMP SPEED**

Pump No, Pressure, Stroke/min, Depth

**DEVIATION SURVEYS**

Boiler #, Hours Run, pH, Stack Temp

**SOLIDS CONTROL**

Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density

**MUD MATERIALS ADDED**

Product, Amount, Type

**TIME LOG**

From, To,Elapsed, Code, Details of Operations in Sequence & Remarks

**SAFETY**

Safety Topic, MEHL, MACP

**TOUR 3 SIGNATURE OF DRILLER**

START TIME END TIME

**DRILLING ASSEMBLY**

BITs: Bit Number, Size, LADC Code, Manufacturer, Type, Serial No, JSS

**HOLE CONDITION**

Hole Drag, 9" Down, 10" Down, 11" Down, 12" Down, 13" Down, 14" Down, 15" Down, 16" Down, 17" Down, 18" Down, 19" Down, 20" Down, 21" Down, 22" Down, 23" Down, 24" Down, 25" Down

**MUD RECORD**

Mud Type, Water, Oil, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT, Circulation

**REDUCED PUMP SPEED**

Pump No, Pressure, Stroke/min, Depth

**DEVIATION SURVEYS**

Boiler #, Hours Run, pH, Stack Temp

**SOLIDS CONTROL**

Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density

**MUD MATERIALS ADDED**

Product, Amount, Type

**TIME LOG**

From, To,Elapsed, Code, Details of Operations in Sequence & Remarks

**SAFETY**

Safety Topic, MEHL, MACP



**FRONT PAGE SUMMARY**

License No 2073    Well Name PAPA ET AL CAMERON 24-03-14Z  
 Operator PAPA/MOUNT RESOURCES LTD  
 Operator's A/E 100110009  
 Signature of Operator Representative MICHEL NIGENT

Contractor MACHOS DRILLING  
 Contractor's Job No CA73  
 Signature of Contractor's Rig Manager MICHEL NIGENT

Four Sheet Serial Number 04424\_20110120\_14  
 Subplot Location 60-02-20-00N17-30-00-30E  
 Vendor Software Version Pason  
 Row Loc Type Unique Well ID 2011  
 Row LVL LONG 302H-03-00-10-117290  
 Row No Well Type 24 HORUZ  
 Row Date Time 2011-10-20 22:45  
 Row Release Date Time

Year Month Day 2011 01 20  
 Re-Entry

**DAILY CHECKS**

|   |    |
|---|----|
| 1) Daily Data Record Inspection                           | OK |
| 2) H2S Alarm Pretest if Required                          | OK |
| 3) H2S Alarm Pretest if Required                          | OK |
| 4) Well Location & Stock Diagram Valid                    | OK |
| 5) Flow Line Status                                       | OK |
| 6) Flow Line Status                                       | OK |
| 7) Visually Inspected BHA - First Line & Drivetrain Link  | OK |
| 8) Visually Inspected BHA - Second Line & Drivetrain Link | OK |
| 9) Visually Inspected BHA - Third Line & Drivetrain Link  | OK |
| 1) Rig Site Health & Safety Meeting (before/after)        | OK |
| 2) OHSOC Rig Safety Assessment (before/after)             | OK |
| 3) Well Exposure before Hoisting of Tooljoint             | OK |
| 4) Downer Status Checked                                  | OK |
| 5) Wellbore Status Checked                                | OK |



| HOURS  | Rig Up | Drill | Reaming | Coring | & C&C | Traps | Repair | Cut Off | Down | Welfare | Rig Down | Wait On | Hoist Up | First | Drillstem | Plug | Squeeze | Fishing | Dr | Safety | Tool | Waiting | Rig | Other | TOTAL |
|--------|--------|-------|---------|--------|-------|-------|--------|---------|------|---------|----------|---------|----------|-------|-----------|------|---------|---------|----|--------|------|---------|-----|-------|-------|
| Tour 1 | 11:27  |       |         |        |       |       |        |         |      |         |          |         |          |       |           |      |         |         |    | 0.25   |      |         |     |       | 12.00 |
| Tour 2 |        |       |         |        |       |       |        |         |      |         |          |         |          |       |           |      |         |         |    |        |      |         |     |       | 12.00 |
| Tour 3 |        |       |         |        |       |       |        |         |      |         |          |         |          |       |           |      |         |         |    |        |      |         |     |       | 12.00 |
| Total  |        |       |         |        |       |       |        |         |      |         |          |         |          |       |           |      |         |         |    |        |      |         |     |       | 24.00 |

**TOUR 1 SIGNATURE OF DRILLER**

DUSTIN GIBSON

START TIME 00:00    END TIME 12:00

**DRILLING ASSEMBLY**  
 No Component 00 ID Length

**MUD RECORD**  
 Mud Type Water  Oil   
 Time Density  
 Funnel Viscosity  
 Fluid Loss  
 Location of Sample  
 Depth  
 PVT  
 Circulation Pump Type Meter Size RPM Pressure Meter No

**REDUCED PUMP SPEED**  
 Pump No. Pressure Stroke/Min Depth

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type

**SOLIDS CONTROL**  
 Equipment Hours Intake Over Flow Under Flow  
 Name Run Density Density Density

**MUD MATERIALS ADDED**  
 Product Amount Type

**TIME LOG**  
 From ToElapsed Code Details of Operations in Sequence & Remarks

**SAFETY**  
 Safety Topic MESH MACP

**TOUR 2 SIGNATURE OF DRILLER**

WADE STEVENSON

START TIME 12:00    END TIME 24:00

**DRILLING ASSEMBLY**  
 No Component 00 ID Length  
 BIT 311 0 0.34m  
 BIT SUB 202 76 0.62m  
 BPC (8.00 IN) 198 76 1.93m  
 PVT 194 76 1.91m  
 KCO 292 76 0.67m

**MUD RECORD**  
 Mud Type Water  Oil   
 Time Density  
 Funnel Viscosity  
 Fluid Loss  
 Location of Sample  
 Depth  
 PVT  
 Circulation Pump Type Meter Size RPM Pressure Meter No

**REDUCED PUMP SPEED**  
 Pump No. Pressure Stroke/Min Depth

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type

**SOLIDS CONTROL**  
 Equipment Hours Intake Over Flow Under Flow  
 Name Run Density Density Density

**MUD MATERIALS ADDED**  
 Product Amount Type

**TIME LOG**  
 From ToElapsed Code Details of Operations in Sequence & Remarks

**SAFETY**  
 Safety Topic MESH MACP

**TOUR 3 SIGNATURE OF DRILLER**

START TIME    END TIME

**DRILLING ASSEMBLY**  
 No Component 00 ID Length

**MUD RECORD**  
 Mud Type Water  Oil   
 Time Density  
 Funnel Viscosity  
 Fluid Loss  
 Location of Sample  
 Depth  
 PVT  
 Circulation Pump Type Meter Size RPM Pressure Meter No

**REDUCED PUMP SPEED**  
 Pump No. Pressure Stroke/Min Depth

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type

**SOLIDS CONTROL**  
 Equipment Hours Intake Over Flow Under Flow  
 Name Run Density Density Density

**MUD MATERIALS ADDED**  
 Product Amount Type

**TIME LOG**  
 From ToElapsed Code Details of Operations in Sequence & Remarks

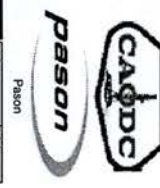
**SAFETY**  
 Safety Topic MESH MACP

**FRONT PAGE SUMMARY**

License No 2073  
 Well Name PARR ET AL CAMELTON 24-03-HZ  
 Operator PARRAMOUNT RESOURCES LTD  
 Operator's A/E BLANTON  
 Date of Operator Representative

Your Sheet Serial Number 00444\_20110121\_VA  
 Surface Location 60 02 20 40N117 20 00 E  
 Vendor Software Version 2011  
 Month 01  
 Day 21

1) Daily Well Record Inspection (Using Check List)  
 2) Well Servicing & Safety Inspection  
 3) HCS Sign Off Review  
 4) Well License & SPS Design Review  
 5) Well Data Reviewed  
 6) BOP Data Reviewed  
 7) Weekly Incident Report - (near Loss & Downer Logs)  
 8) Well Servicing & Safety Meeting (post-inspection)  
 9) Daily Reg Safety Inspector Checklist (post-inspection)  
 10) Daily Well Record



| DE     | 1     | 2    | 3 | 4 | 5 | 6 | 7 | 8 | 9    | 10   | 11   | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|--------|-------|------|---|---|---|---|---|---|------|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Drill  |       |      |   |   |   |   |   |   |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Remain |       |      |   |   |   |   |   |   |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Actual | 7:15  | 0:25 |   |   |   |   |   |   |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Hour 1 |       |      |   |   |   |   |   |   |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Hour 2 |       |      |   |   |   |   |   |   |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Hour 3 |       |      |   |   |   |   |   |   |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Total  | 16:15 | 0:25 |   |   |   |   |   |   | 0:75 | 2:25 | 2:00 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**TOUR 1 SIGNATURE OF DRILLER** DUSTIN GIBSON

**DRILLING ASSEMBLY**

| BIT | 1/A | No | Component | OD ID | Length |
|-----|-----|----|-----------|-------|--------|
| 311 | 311 | 0  | 3/4in     |       |        |
| 317 | 317 | 0  | 3/4in     |       |        |
| 202 | 202 | 74 | 0.82in    |       |        |
| 194 | 194 | 78 | 0.93in    |       |        |
| 191 | 191 | 76 | 0.917in   |       |        |
| 292 | 292 | 76 | 0.87in    |       |        |
| 194 | 194 | 82 | 0.81in    |       |        |
| 124 | 124 | 60 | 0.95in    |       |        |
| 121 | 121 | 49 | 2.81in    |       |        |
| 124 | 124 | 60 | 1.91in    |       |        |
| 124 | 124 | 62 | 9.58in    |       |        |
| 121 | 121 | 49 | 9.61in    |       |        |
| 121 | 121 | 49 | 9.58in    |       |        |
| 124 | 124 | 60 | 5.00in    |       |        |
| 124 | 124 | 59 | 5.00in    |       |        |
| 124 | 124 | 59 | 20.64in   |       |        |
| 124 | 124 | 59 | 23.64in   |       |        |

**MUD RECORD**

| Time  | Water | Oil |
|-------|-------|-----|
| 02:00 |       |     |
| 06:00 |       |     |
| 10:00 |       |     |
| 13:00 |       |     |
| 16:00 |       |     |
| 19:00 |       |     |
| 22:00 |       |     |

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction | Type      |
|-------|-------|-----------|-----------|-----------|
| 03:15 | 34m   | 0         |           | TELEDRIFT |
| 03:15 | 34m   | 0         |           |           |

**SOLIDS CONTROL**

| Equipment  | Hours | Intake | Under Flow |
|------------|-------|--------|------------|
| Hydradrill | 0     | 1470   | 1010       |
| Centrifuge | 0     | 1470   | 1010       |

**MUD MATERIALS ADDED**

| Product          | Amount | Type |
|------------------|--------|------|
| DEGRASER         | 2      | PAL  |
| DEGRASER         | 2      | SACK |
| HYPERDRILL ZATRO | 2      | PAL  |
| HYPERDRILL       | 8      | PAL  |

**SAFETY**

Safety Topic: CHECKING WASH PIPE

Start Time: 12:00, End Time: 12:00

**TOUR 2 SIGNATURE OF DRILLER** WADE STEVENSON

**DRILLING ASSEMBLY**

| BIT | 1/A | No | Component | OD ID | Length |
|-----|-----|----|-----------|-------|--------|
| 311 | 311 | 0  | 3/4in     |       |        |
| 317 | 317 | 0  | 3/4in     |       |        |
| 202 | 202 | 74 | 0.82in    |       |        |
| 194 | 194 | 78 | 0.93in    |       |        |
| 191 | 191 | 76 | 0.917in   |       |        |
| 292 | 292 | 76 | 0.87in    |       |        |
| 194 | 194 | 82 | 0.81in    |       |        |
| 124 | 124 | 60 | 0.95in    |       |        |
| 121 | 121 | 49 | 2.81in    |       |        |
| 124 | 124 | 60 | 1.91in    |       |        |
| 124 | 124 | 62 | 9.58in    |       |        |
| 121 | 121 | 49 | 9.61in    |       |        |
| 121 | 121 | 49 | 9.58in    |       |        |
| 124 | 124 | 60 | 5.00in    |       |        |
| 124 | 124 | 59 | 5.00in    |       |        |
| 124 | 124 | 59 | 20.64in   |       |        |
| 124 | 124 | 59 | 23.64in   |       |        |

**MUD RECORD**

| Time  | Water | Oil |
|-------|-------|-----|
| 14:00 |       |     |
| 18:00 |       |     |
| 11:00 |       |     |
| 11:30 |       |     |
| 11:30 |       |     |
| 11:30 |       |     |

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction | Type     |
|-------|-------|-----------|-----------|----------|
| 01:15 | 91m   | 1.15      |           | WIRELINE |
| 1:15  | 1:15  | 0         |           | WIRELINE |
| 1:15  | 1:15  | 0         |           | WIRELINE |
| 1:15  | 1:15  | 0         |           | WIRELINE |
| 1:15  | 1:15  | 0         |           | WIRELINE |

**SOLIDS CONTROL**

| Equipment  | Hours | Intake | Under Flow |
|------------|-------|--------|------------|
| Centrifuge | 12    | 1130   | 1940       |

**MUD MATERIALS ADDED**

| Product          | Amount | Type |
|------------------|--------|------|
| KEZLAN XCD       | 2      | PALS |
| HYPERDRILL ZATRO | 2      | BAGS |
| HYPERDRILL       | 13     | PALS |
| HYPERDRILL       | 2      | PALS |

**SAFETY**

Safety Topic: HMR CONNECTION

Start Time: 12:00, End Time: 24:00

**TOUR 3 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**

| BIT | No | Component | OD ID | Length |
|-----|----|-----------|-------|--------|
| 10  | 10 | 10        | 16.00 | 0.00   |
| 10  | 10 | 10        | 16.00 | 0.00   |

**MUD RECORD**

| Time | Water | Oil |
|------|-------|-----|
|      |       |     |

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment | Hours | Intake | Under Flow |
|-----------|-------|--------|------------|
|           |       |        |            |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**SAFETY**

Safety Topic: MHL

Start Time: , End Time: 24:00

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110121\_1A Vendor Software Version Pason Year 2011 Month 01 Day 21

|  |  |  |              |                                    |   |
|--|--|--|--------------|------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30E   | Prov<br>NT   | Loc Type<br>LAT-LONG               | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |  | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/>    |
|  |  |  |              | Spud Date Time<br>2011/01/20 23:45 | Rig Release Date Time                   |



Pason

| DRILLING ASSEMBLY TOUR 1 |                  |        |         |        | DRILLING ASSEMBLY TOUR 2 |                  |        |         |        | DRILLING ASSEMBLY TOUR |                  |    |         |        |
|--------------------------|------------------|--------|---------|--------|--------------------------|------------------|--------|---------|--------|------------------------|------------------|----|---------|--------|
| No                       | Component        | OD     | ID      | Length | No                       | Component        | OD     | ID      | Length | No                     | Component        | OD | ID      | Length |
| 1                        | BIT              | 311.20 | 0.00    | 0.34   | 1                        | BIT              | 311.20 | 0.00    | 0.34   |                        |                  |    |         |        |
| 1                        | BIT SUB          | 202.00 | 74.00   | 0.82   | 1                        | BIT SUB          | 202.00 | 74.00   | 0.82   |                        |                  |    |         |        |
| 1                        | DC (8.00 IN)     | 195.00 | 76.00   | 9.39   | 1                        | DC (8.00 IN)     | 195.00 | 76.00   | 9.39   |                        |                  |    |         |        |
| 1                        | DC (8.00 IN)     | 198.00 | 76.00   | 9.17   | 1                        | DC (8.00 IN)     | 198.00 | 76.00   | 9.17   |                        |                  |    |         |        |
| 1                        | X/O              | 295.00 | 76.00   | 0.67   | 1                        | X/O              | 295.00 | 76.00   | 0.67   |                        |                  |    |         |        |
| 1                        | X/O              | 158.00 | 62.00   | 0.81   | 1                        | X/O              | 158.00 | 62.00   | 0.81   |                        |                  |    |         |        |
| 1                        | DC (5.00 IN)     | 128.00 | 60.00   | 9.58   | 1                        | DC (5.00 IN)     | 128.00 | 60.00   | 9.58   |                        |                  |    |         |        |
| 1                        | TELEDRIFT        | 125.00 | 59.00   | 2.61   | 1                        | TELEDRIFT        | 125.00 | 59.00   | 2.61   |                        |                  |    |         |        |
| 2                        | DC (5.00 IN)     | 126.00 | 60.00   | 19.18  | 5                        | DC (5.00 IN)     | 126.00 | 60.00   | 47.96  |                        |                  |    |         |        |
| 1                        | DC (5.00 IN)     | 124.00 | 62.00   | 9.59   | 1                        | JARS-HYD/MECH    | 125.00 | 59.00   | 5.08   |                        |                  |    |         |        |
| 1                        | DC (5.00 IN)     | 126.00 | 59.00   | 9.61   | 9                        | DC (5.00 IN)     | 126.00 | 60.00   | 86.41  |                        |                  |    |         |        |
| 1                        | DC (5.00 IN)     | 126.00 | 60.00   | 9.58   | 4                        | HWDP(4.0 IN)     | 102.00 | 64.00   | 37.52  |                        |                  |    |         |        |
| 1                        | JARS-HYD/MECH    | 126.00 | 59.00   | 5.08   |                          |                  |        |         |        |                        |                  |    |         |        |
|                          |                  |        |         |        |                          |                  |        |         |        |                        |                  |    |         |        |
|                          |                  |        |         |        |                          |                  |        |         |        |                        |                  |    |         |        |
|                          |                  |        |         |        |                          |                  |        |         |        |                        |                  |    |         |        |
|                          |                  |        |         |        |                          |                  |        |         |        |                        |                  |    |         |        |
| 0                        | Drill Pipe       |        | Stands  | 0.00   | 0                        | Drill Pipe       |        | Stands  | 0.00   |                        | Drill Pipe       |    | Stands  |        |
| 0                        | Drill Pipe       |        | Singles | 0.00   | 0                        | Drill Pipe       |        | Singles | 0.00   |                        | Drill Pipe       |    | Singles |        |
|                          | Kelly Down       |        |         | 13.02  |                          | Kelly Down       |        |         | 13.02  |                        | Kelly Down       |    |         |        |
|                          | Total            |        |         | 99.45  |                          | Total            |        |         | 223.38 |                        | Total            |    |         |        |
|                          | Weight of DC     |        |         | 20.00  |                          | Weight of DC     |        |         | 23.00  |                        | Weight of DC     |    |         |        |
|                          | Weight of String |        |         | 23.00  |                          | Weight of String |        |         | 27.00  |                        | Weight of String |    |         |        |

| SPECIAL EVENTS |              |  |       |       |
|----------------|--------------|--|-------|-------|
| Tour No.       | Event No.    | Description  | Time  | Depth |
| 1              | Rig site H/S | Cold weather Green hands to rig Steam use ( Green hands shown to work floor & hazards on floor ) | 00:00 |       |
| 1              | JSA REVIEW   | A-20 RIG SERVICE   | 01:00 | 45    |
| 1              | JSA REVIEW   | A-25 STEAM USE   | 01:00 | 64    |
| 1              | Hazard ID    | Rig floor was cluttered causing tripping hazards ( Hazard ID # 304518 )                          | 03:00 |       |
| 1              | Hazard ID    | Pipe racks were not chained to pipe tube ( Hazard ID # 304519 )                                  | 04:00 |       |

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110121\_1A Vendor Software Version Pason Year 2011 Month 01 Day 21



|  |  |  |                                    |                                      |   |
|--|--|--|------------------------------------|--------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT                         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |   |
|  |  |  | Spud Date Time<br>2011/01/20 23:45 | Rig Release Date Time                |   |



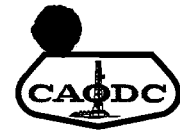
Pason

| TOUR   |                      | MUD TYPE  |           |  |  | WATER |  | OIL |  | OTHER |  |  |  |  |  |  |  |  |
|--------|----------------------|-----------|-----------|--|--|-------|--|-----|--|-------|--|--|--|--|--|--|--|--|
| 1      |                      |           |           |  |  | x     |  |     |  |       |  |  |  |  |  |  |  |  |
| Time   | 02:00                | 06:00     | 10:00     |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
|        | Density              | 1020kg/m3 | 1030kg/m3 |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
|        | Funnel Viscosity     | 36s/l     | 37s/l     |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
|        | Fluid Loss           |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
|        | Fluid pH             | 9         | 9         |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
|        | Location of Sample   |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
|        | Depth                |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
| PVT    |                      |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
| Test 1 | Type (Ex: Chlorides) |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
|        | Value                |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
| Test 2 | Type (ex: Sand%)     |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
|        | Value                |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
|        | Value                |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
| Test 4 | Type (ex: Sulfides)  |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |
|        | Value                |           |           |  |  |       |  |     |  |       |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110121\_1A Vendor Software Version Pason Year 2011 Month 01 Day 21



License No 2073 Well Name PARA ET AL CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30E Prov NT Loc Type LAT-LONG Unique Well Id 302/H-03/6010-11730/0

|  |  |              |   |                                      |
|--|--|--------------|---|--------------------------------------|
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ<br>Spud Date Time<br>2011/01/20 23:45<br>Rig Release Date Time | Re-Entry<br><input type="checkbox"/> |
|--|--|--------------|---|--------------------------------------|



Pason

TOUR **2** MUD TYPE **POLYMER** WATER  OIL  OTHER

| Time               | 14:00                | 18:00     | 22:00     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1120kg/m3            | 1130kg/m3 | 1130kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 46s/l                | 43s/l     | 42s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 8                    | 8         | 8         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

FRONT PAGE SUMMARY

License No: 2073, Well Name: PAPA ET AL CAMBION 24-03-1Z, Four Sheet Serial Number: 04424\_20110122\_1A, Surface Location: 60-02-20-40N17-30W-31E

Vendor Software Version: 2011, Month: 01, Day: 22, Operator: PAPAOUNT RESOURCES LTD, Contract No: NAORS DRILLING

DAILY CHECKS: 1) Daily Well Record Inspection, 2) HOS Survey, 3) HOS Survey, 4) Well Logger & Stick Diagram Valid



Table with columns for DE (1-25), HOURS (1-25), and TOTAL. Includes a WEATHER section at the bottom right.

TOUR 1 SIGNATURE OF DRILLER

WAGE STEVENSON

START TIME 00:00

END TIME 12:00

TOUR 1 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for bit number, size, LWD code, and various survey data.

TOUR 2 SIGNATURE OF DRILLER

DUSTIN GIBSON

START TIME 12:00

END TIME 24:00

TOUR 2 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for bit number, size, LWD code, and various survey data.

TOUR 3 SIGNATURE OF DRILLER

START TIME

END TIME

TOUR 3 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for bit number, size, LWD code, and various survey data.

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

|   |   |  |                       |                                      |   |
|---|---|--|-----------------------|--------------------------------------|---|
| Tour Sheet Serial No<br>0X8424_20110122_1A            | Vendor Software Version<br>Pason                        | Year<br>2011                                   | Month<br>01           | Day<br>22                            |   |
| License No<br>2073                                    | Well Name<br>PARA ET AL CAMERON 2H-03 HZ                | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT            | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.                  | Contractor<br>NABORS DRILLING                           | Rig No<br>24                                   | Well Type<br>HORIZ    | Re-Entry<br><input type="checkbox"/> |   |
| Operator's AFE<br>10N110009                           | Contractor's Job No<br>C6473                            | Spud Date Time<br>2011/01/20 23:45             | Rig Release Date Time |                                      |   |
| Signature of Operator Representative<br>JOSH BLINSTON | Signature of Contractor's Rig Manager<br>MICHAEL NUGENT |  |                       |                                      |   |



Pason

| DRILLING ASSEMBLY TOUR 1 |                  |         |       |        | DRILLING ASSEMBLY TOUR 2 |               |                  |       |        | DRILLING ASSEMBLY TOUR |            |         |                  |        |  |  |
|--------------------------|------------------|---------|-------|--------|--------------------------|---------------|------------------|-------|--------|------------------------|------------|---------|------------------|--------|--|--|
| No                       | Component        | OD      | ID    | Length | No                       | Component     | OD               | ID    | Length | No                     | Component  | OD      | ID               | Length |  |  |
| 1                        | BIT              | 311.20  | 0.00  | 0.34   | 1                        | BIT           | 311.20           | 0.00  | 0.34   |                        |            |         |                  |        |  |  |
| 1                        | BIT SUB          | 202.00  | 74.00 | 0.82   | 1                        | BIT SUB       | 202.00           | 74.00 | 0.82   |                        |            |         |                  |        |  |  |
| 1                        | DC (8.00 IN)     | 195.00  | 76.00 | 9.39   | 1                        | DC (8.00 IN)  | 195.00           | 76.00 | 9.39   |                        |            |         |                  |        |  |  |
| 1                        | DC (8.00 IN)     | 198.00  | 76.00 | 9.17   | 1                        | DC (8.00 IN)  | 198.00           | 76.00 | 9.17   |                        |            |         |                  |        |  |  |
| 1                        | X/O              | 295.00  | 76.00 | 0.67   | 1                        | X/O           | 295.00           | 76.00 | 0.67   |                        |            |         |                  |        |  |  |
| 1                        | X/O              | 158.00  | 62.00 | 0.81   | 1                        | X/O           | 158.00           | 62.00 | 0.81   |                        |            |         |                  |        |  |  |
| 1                        | DC (5.00 IN)     | 128.00  | 60.00 | 9.58   | 1                        | DC (5.00 IN)  | 128.00           | 60.00 | 9.58   |                        |            |         |                  |        |  |  |
| 1                        | TELEDRIFT        | 129     | 59    | 2.61   | 5                        | DC (5.00 IN)  | 126.00           | 60.00 | 47.96  |                        |            |         |                  |        |  |  |
| 5                        | DC (5.00 IN)     | 126.00  | 60.00 | 47.96  | 1                        | JARS-HYD/MECH | 125.00           | 59.00 | 5.32   |                        |            |         |                  |        |  |  |
| 1                        | JARS-HYD/MECH    | 125.00  | 59.00 | 5.32   | 9                        | DC (5.00 IN)  | 126.00           | 60.00 | 86.41  |                        |            |         |                  |        |  |  |
| 9                        | DC (5.00 IN)     | 126.00  | 60.00 | 86.41  | 9                        | HWDP(4.0 IN)  | 102.00           | 64.00 | 84.41  |                        |            |         |                  |        |  |  |
| 9                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 84.41  |                          |               |                  |       |        |                        |            |         |                  |        |  |  |
|                          |                  |         |       |        |                          |               |                  |       |        |                        |            |         |                  |        |  |  |
|                          |                  |         |       |        |                          |               |                  |       |        |                        |            |         |                  |        |  |  |
|                          |                  |         |       |        |                          |               |                  |       |        |                        |            |         |                  |        |  |  |
|                          |                  |         |       |        |                          |               |                  |       |        |                        |            |         |                  |        |  |  |
|                          |                  |         |       |        |                          |               |                  |       |        |                        |            |         |                  |        |  |  |
|                          |                  |         |       |        |                          |               |                  |       |        |                        |            |         |                  |        |  |  |
|                          |                  |         |       |        |                          |               |                  |       |        |                        |            |         |                  |        |  |  |
|                          |                  |         |       |        |                          |               |                  |       |        |                        |            |         |                  |        |  |  |
|                          |                  |         |       |        |                          |               |                  |       |        |                        |            |         |                  |        |  |  |
| 4                        | Drill Pipe       | Stands  |       | 76.37  | 5                        | Drill Pipe    | Stands           |       | 94.74  |                        | Drill Pipe | Stands  |                  |        |  |  |
| 1                        | Drill Pipe       | Singles |       | 9.39   | 0                        | Drill Pipe    | Singles          |       | 0.00   |                        | Drill Pipe | Singles |                  |        |  |  |
|                          | Kelly Down       |         |       |        | 9.20                     |               | Kelly Down       |       |        |                        | 11.38      |         | Kelly Down       |        |  |  |
|                          | Total            |         |       |        | 352.45                   |               | Total            |       |        |                        | 361.00     |         | Total            |        |  |  |
|                          | Weight of DC     |         |       |        |                          |               | Weight of DC     |       |        |                        |            |         | Weight of DC     |        |  |  |
|                          | Weight of String |         |       |        |                          |               | Weight of String |       |        |                        |            |         | Weight of String |        |  |  |

| SPECIAL EVENTS |            |  |       |       |
|----------------|------------|--|-------|-------|
| Tour No.       | Event No.  | Description  | Time  | Depth |
| 1              | JSA REVIEW | B-03 CLEANING & PREPARE & DRIFT CASING                                   | 01:00 |       |
| 1              | JSA REVIEW | A-15 CREW CAB OPERATIONS   | 01:00 |       |
| 1              | Hazard ID  | DRAWWORKS DRUM GARD OFF ( HAZARD ID # 304520 )                           | 02:00 |       |
| 1              | Near Miss  | KELLY SPINNER HOSES ( HOSES HOOD ON THE DERRICK ) ( NEAR MISS # 304521 ) | 03:00 |       |
| 1              | JSA REVIEW | B-04 CONNECTIONS WITH D.P.   | 07:15 |       |
| 1              | JSA REVIEW | B-35 RIG TONG USE  | 07:15 |       |





**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110122\_1A Vendor Software Version Pason Year 2011 Month 01 Day 22

|  |  |  |                    |                                    |   |
|--|--|--|--------------------|------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/01/20 23:45 | Re-Entry<br><input type="checkbox"/>    |



Pason

| TOUR 1             |                      | MUD TYPE POLYMER |           |  | WATER x |  | OIL |  | OTHER |  |
|--------------------|----------------------|------------------|-----------|--|---------|--|-----|--|-------|--|
| Time               | 02:00                | 04:00            | 06:00     |  |         |  |     |  |       |  |
| Density            | 1120kg/m3            | 1120kg/m3        | 1130kg/m3 |  |         |  |     |  |       |  |
| Funnel Viscosity   | 46s/l                | 43s/l            | 42s/l     |  |         |  |     |  |       |  |
| Fluid Loss         |                      |                  |           |  |         |  |     |  |       |  |
| Fluid pH           | 8                    | 8.0              | 8         |  |         |  |     |  |       |  |
| Location of Sample |                      |                  |           |  |         |  |     |  |       |  |
| Depth              |                      |                  |           |  |         |  |     |  |       |  |
| PVT                |                      |                  |           |  |         |  |     |  |       |  |
| Test 1             | Type (Ex: Chlorides) |                  |           |  |         |  |     |  |       |  |
|                    | Value                |                  |           |  |         |  |     |  |       |  |
| Test 2             | Type (ex: Sand%)     |                  |           |  |         |  |     |  |       |  |
|                    | Value                |                  |           |  |         |  |     |  |       |  |
| Test 3             | Type (ex: Hard Ca)   |                  |           |  |         |  |     |  |       |  |
|                    | Value                |                  |           |  |         |  |     |  |       |  |
| Test 4             | Type (ex: Sulfides)  |                  |           |  |         |  |     |  |       |  |
|                    | Value                |                  |           |  |         |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110122\_1A Vendor Software Version Pason Year 2011 Month 01 Day 22



|  |  |  |                    |                                    |   |
|--|--|--|--------------------|------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/01/20 23:45 | Re-Entry<br><input type="checkbox"/>    |



Pason

TOUR **2** MUD TYPE **POLYMER** WATER  OIL  OTHER

| Time               | 20:00                | 23:00     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1130kg/m3            | 1140kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 46s/l                | 45s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         |                      |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 8                    | 8         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample |                      |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              |                      |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                |                      |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

FRONT PAGE SUMMARY

License No 2073 Well Name PAPA ET AL CAMELTON 24-03 WZ
Contractor NADCO'S DRILLING
Operator's A/E Operator's A/E
Signature of Operator Representative MICHAEL NUGENT

DAILY CHECKS

1) Tool Joint Record reviewed (during Check List)
2) HCS Sign Permit reviewed
3) Well Log and SDC Diagram noted
4) Well Log and SDC Diagram noted
5) BOP Data Reviewed
7) Visually Inspected BOPs - Flow Lines & Discharge Lines
8) BOP Data Reviewed
9) Well Log and SDC Diagram noted
10) Well Log and SDC Diagram noted
11) BOP Sign Permit reviewed (during Check List)
12) Well Log and SDC Diagram noted
13) Well Log and SDC Diagram noted
14) Well Log and SDC Diagram noted
15) Well Log and SDC Diagram noted
16) Well Log and SDC Diagram noted
17) Well Log and SDC Diagram noted
18) Well Log and SDC Diagram noted
19) Well Log and SDC Diagram noted
20) Well Log and SDC Diagram noted
21) Well Log and SDC Diagram noted
22) Well Log and SDC Diagram noted
23) Well Log and SDC Diagram noted
24) Well Log and SDC Diagram noted
25) Well Log and SDC Diagram noted

OP RM table with columns: Date, Time, Location, Status. Includes entries for 20/01/2023, 21/01/2023, 22/01/2023, 23/01/2023, 24/01/2023.



DE 1-25 table with columns: DE, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25. Includes sub-tables for HOURS, WEATHER, and RIG LOG.

TOUR 1 SIGNATURE OF DRILLER

WADE STEVENSON

START TIME 06:00

END TIME 12:00

TOUR 1 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes detailed data for rig components, mud properties, deviation surveys, and safety logs.

TOUR 2 SIGNATURE OF DRILLER

DUSTIN GIBSON

START TIME 12:00

END TIME 24:00

TOUR 2 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes detailed data for rig components, mud properties, deviation surveys, and safety logs.

TOUR 3 SIGNATURE OF DRILLER

START TIME

END TIME

TOUR 3 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes detailed data for rig components, mud properties, deviation surveys, and safety logs.

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110123\_1A Vendor Software Version Pason Year 2011 Month 01 Day 23

License No 2073 Well Name PARA ET AL CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30E Prov NT Loc Type LAT-LONG Unique Well Id 302/H-03/6010-11730/0

Operator PARAMOUNT RESOURCES LTD. Contractor NABORS DRILLING Rig No 24 Well Type HORIZ Re-Entry   
 Operator's AFE 10N110009 Contractor's Job No C6473 Spud Date Time 2011/01/20 23:45  
 Signature of Operator Representative JOSH BLINSTON Signature of Contractor's Rig Manager MICHAEL NUGENT Rig Release Date Time



Pason

| DRILLING ASSEMBLY |                  |        |         |        | DRILLING ASSEMBLY |           |         |    |        | DRILLING ASSEMBLY |           |         |    |        |
|-------------------|------------------|--------|---------|--------|-------------------|-----------|---------|----|--------|-------------------|-----------|---------|----|--------|
| TOUR 1            |                  |        |         |        | TOUR              |           |         |    |        | TOUR              |           |         |    |        |
| No                | Component        | OD     | ID      | Length | No                | Component | OD      | ID | Length | No                | Component | OD      | ID | Length |
| 1                 | BIT              | 311.20 | 0.00    | 0.34   |                   |           |         |    |        |                   |           |         |    |        |
| 1                 | BIT SUB          | 202.00 | 74.00   | 0.82   |                   |           |         |    |        |                   |           |         |    |        |
| 1                 | DC (8.00 IN)     | 195.00 | 76.00   | 9.39   |                   |           |         |    |        |                   |           |         |    |        |
| 1                 | DC (8.00 IN)     | 198.00 | 76.00   | 9.17   |                   |           |         |    |        |                   |           |         |    |        |
| 1                 | X/O              | 295.00 | 76.00   | 0.67   |                   |           |         |    |        |                   |           |         |    |        |
| 1                 | X/O              | 158.00 | 62.00   | 0.81   |                   |           |         |    |        |                   |           |         |    |        |
| 1                 | DC (5.00 IN)     | 128.00 | 60.00   | 9.58   |                   |           |         |    |        |                   |           |         |    |        |
| 5                 | DC (5.00 IN)     | 126.00 | 60.00   | 47.96  |                   |           |         |    |        |                   |           |         |    |        |
| 1                 | JARS-HYD/MECH    | 125.00 | 59.00   | 5.32   |                   |           |         |    |        |                   |           |         |    |        |
| 9                 | DC (5.00 IN)     | 126.00 | 60.00   | 86.41  |                   |           |         |    |        |                   |           |         |    |        |
| 9                 | HWDP(4.0 IN)     | 102.00 | 64.00   | 84.41  |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
|                   |                  |        |         |        |                   |           |         |    |        |                   |           |         |    |        |
| 5                 | Drill Pipe       |        | Stands  | 94.74  | Drill Pipe        |           | Stands  |    |        | Drill Pipe        |           | Stands  |    |        |
| 0                 | Drill Pipe       |        | Singles | 0.00   | Drill Pipe        |           | Singles |    |        | Drill Pipe        |           | Singles |    |        |
|                   | Kelly Down       |        |         | 11.38  | Kelly Down        |           |         |    |        | Kelly Down        |           |         |    |        |
|                   | Total            |        |         | 361.00 | Total             |           |         |    |        | Total             |           |         |    |        |
|                   | Weight of DC     |        |         |        | Weight of DC      |           |         |    |        | Weight of DC      |           |         |    |        |
|                   | Weight of String |        |         |        | Weight of String  |           |         |    |        | Weight of String  |           |         |    |        |

| SPECIAL EVENTS |              |                            |       |       |
|----------------|--------------|----------------------------|-------|-------|
| Tour No.       | Event No.    | Description                | Time  | Depth |
| 1              | JSA REVIEW   | B-28 RIG TO AND RUN CASING | 02:45 |       |
| 1              | JSA REVIEW   | B-27 RIG TO CEMENT CAING   | 02:45 |       |
| 2              | Rig site H/S | RIGGIN TO, AND CEMENTING   | 13:30 |       |
|                |              |                            |       |       |
|                |              |                            |       |       |
|                |              |                            |       |       |
|                |              |                            |       |       |

**FRONT PAGE SUMMARY**

License No 2073 Well Name PAMA ET AL CAMELTON 2H-03-HZ  
 Operator's A/E/EC PAMA/AMOUNT RESOURCES LTD  
 Contractor MAJOR'S DRILLING  
 Operator's Job No CA73  
 Signature of Contractor's Rig Manager MICHAEL MCGHEE

Four Sheet Serial Number 06464, 20110724, 1A  
 Surface Location 60 02 20 40W 17 20 06 30E  
 Vendor Software Version 2011  
 Permit No NT  
 LAT/LONG 302H-03A00 117200  
 Rig No Well Type 24 HORZ  
 Spud Date Time 2011 01 20 23 45  
 Rig Release Date Time

**DAILY CHECKS**

| Month | Day | OP RM |
|-------|-----|-------|
| 2011  | 01  | 24    |
| 2011  | 02  | 24    |
| 2011  | 03  | 24    |
| 2011  | 04  | 24    |
| 2011  | 05  | 24    |
| 2011  | 06  | 24    |
| 2011  | 07  | 24    |
| 2011  | 08  | 24    |
| 2011  | 09  | 24    |
| 2011  | 10  | 24    |
| 2011  | 11  | 24    |
| 2011  | 12  | 24    |



| HOURS  | Code | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21   | 22   | 23   | 24   | 25    | TOTAL |       |       |  |  |
|--------|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|------|------|------|------|-------|-------|-------|-------|--|--|
|        |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |       | Dr    | Wk    |       |  |  |
| Hour 1 | 10   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |       |       |       |       |  |  |
| Hour 2 | 052  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |       |       |       |       |  |  |
| Hour 3 |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |       |       |       |       |  |  |
| Total  | 0.54 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1.00 | 0.25 | 2.75 | 2.00 | 12.00 | 12.00 | 24.00 | 24.00 |  |  |

**WEATHER**

|            |         |
|------------|---------|
| Temp       | 06.00   |
| Wind       | 11.80   |
| Pressure   | 1013.00 |
| Humidity   | 51.00   |
| Clouds     | 0.00    |
| Visibility | 10.00   |

**TOUR 1 SIGNATURE OF DRILLER** WAGE STEVENSON

**DRILLING ASSEMBLY**

BITs: Bit Number, Size, LUC Code, Manufacturer, Type, Serial No, JCS

**HOLE CONDITION**

Hole Drag:  0  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25

**MUD RECORD**

Mud Type:  Water  Oil  Other

**REDUCED PUMP SPEED**

Pressure:  0  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25

**DEVIATION SURVEYS**

Boiler #, Hours Run, pH, Stack Temp

**SOLIDS CONTROL**

Equipment Name, Hours Run, Intake Density, Under Flow Density

**MUD MATERIALS ADDED**

Product, Amount, Type

**TIME LOG**

From To, Eased Code, Details of Operations in Sequence & Remarks

**SAFETY**

Safety Topic, MENT, MACP

**TOUR 2 SIGNATURE OF DRILLER** DUSTIN GIBSON

**DRILLING ASSEMBLY**

BITs: Bit Number, Size, LUC Code, Manufacturer, Type, Serial No, JCS

**HOLE CONDITION**

Hole Drag:  0  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25

**MUD RECORD**

Mud Type:  Water  Oil  Other

**REDUCED PUMP SPEED**

Pressure:  0  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25

**DEVIATION SURVEYS**

Boiler #, Hours Run, pH, Stack Temp

**SOLIDS CONTROL**

Equipment Name, Hours Run, Intake Density, Under Flow Density

**MUD MATERIALS ADDED**

Product, Amount, Type

**TIME LOG**

From To, Eased Code, Details of Operations in Sequence & Remarks

**SAFETY**

Safety Topic, MENT, MACP

**TOUR 3 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**

BITs: Bit Number, Size, LUC Code, Manufacturer, Type, Serial No, JCS

**HOLE CONDITION**

Hole Drag:  0  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25

**MUD RECORD**

Mud Type:  Water  Oil  Other

**REDUCED PUMP SPEED**

Pressure:  0  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25

**DEVIATION SURVEYS**

Boiler #, Hours Run, pH, Stack Temp

**SOLIDS CONTROL**

Equipment Name, Hours Run, Intake Density, Under Flow Density

**MUD MATERIALS ADDED**

Product, Amount, Type

**TIME LOG**

From To, Eased Code, Details of Operations in Sequence & Remarks

**SAFETY**

Safety Topic, MENT, MACP



FRONT PAGE SUMMARY

License No 2073, Well Name PAPA ET AL CAMERON 24-03-1Z, Operator PAPA/MOUNT RESOURCES LTD, Operator's A/E 10N110000, User of Operator Representative BRANSTON

Four Sheet Serial Number 00044\_20710125\_1A, Surface Location 60 02 20 40N17 30 E 30E, Vendor Software Version 2011, Pason

DAILY CHECKS, 1) Tool Joint Record Inspection, 2) HCS Signs Inspected, 3) HCS Signs Inspected, 4) Well Line Survey, 5) Flow Line Survey, 6) Well Line Survey, 7) Visual Inspection, 8) Visual Inspection, 9) Visual Inspection, 10) Visual Inspection



Table with columns for hours (1-25) and rows for DE, CE, and HOURS. Includes a WEATHER section at the bottom right.

TOUR 1 SIGNATURE OF DRILLER

WADE STEVENSON

START TIME

00:00

DRILLING ASSEMBLY

Table with columns: BI Number, Size, LADC Code, Manufacturer, Serial No, JCS, Depth Out (m), Depth In (m), Total Drilled (m), Cumulative Run Today, Cumulative Run

MUD RECORD

Table with columns: Mud Type, Water, Oil, Time, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT, Circulation

DEVIATION SURVEYS

Table with columns: Time, Depth, Deviation, Direction, Type

SOLIDS CONTROL

Table with columns: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density

MUD MATERIALS ADDED

Table with columns: Product, Amount, Type

CUTTING STRUCTURE

Table with columns: TI, TO, MOC, LOC, RRG, Gauge, Reason Pulled, Total Run (m/h)

HOLE CONDITION

Table with columns: Hole Dring, WOB, Weight of DC, Weight of Sliding

REDUCED PUMP SPEED

Table with columns: Pump No, Pressure, Stroke/Min, Depth

BOILER

Table with columns: Boiler #, Hours Run, pH, Stack Temp

SAFETY

Table with columns: Safety Topic, MESH, MACP

TOUR 2 SIGNATURE OF DRILLER

DUSTIN GIBSON

START TIME

12:00

DRILLING ASSEMBLY

Table with columns: BI Number, Size, LADC Code, Manufacturer, Serial No, JCS, Depth Out (m), Depth In (m), Total Drilled (m), Cumulative Run Today, Cumulative Run

MUD RECORD

Table with columns: Mud Type, Water, Oil, Time, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT, Circulation

DEVIATION SURVEYS

Table with columns: Time, Depth, Deviation, Direction, Type

SOLIDS CONTROL

Table with columns: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density

MUD MATERIALS ADDED

Table with columns: Product, Amount, Type

CUTTING STRUCTURE

Table with columns: TI, TO, MOC, LOC, RRG, Gauge, Reason Pulled, Total Run (m/h)

HOLE CONDITION

Table with columns: Hole Dring, WOB, Weight of DC, Weight of Sliding

REDUCED PUMP SPEED

Table with columns: Pump No, Pressure, Stroke/Min, Depth

BOILER

Table with columns: Boiler #, Hours Run, pH, Stack Temp

SAFETY

Table with columns: Safety Topic, MESH, MACP

TOUR 3 SIGNATURE OF DRILLER

START TIME

DRILLING ASSEMBLY

Table with columns: BI Number, Size, LADC Code, Manufacturer, Serial No, JCS, Depth Out (m), Depth In (m), Total Drilled (m), Cumulative Run Today, Cumulative Run

MUD RECORD

Table with columns: Mud Type, Water, Oil, Time, Density, Funnel Viscosity, Fluid Loss, pH, Location of Sample, Depth, PVT, Circulation

DEVIATION SURVEYS

Table with columns: Time, Depth, Deviation, Direction, Type

SOLIDS CONTROL

Table with columns: Equipment Name, Hours Run, Intake Density, Over Flow Density, Under Flow Density

MUD MATERIALS ADDED

Table with columns: Product, Amount, Type

CUTTING STRUCTURE

Table with columns: TI, TO, MOC, LOC, RRG, Gauge, Reason Pulled, Total Run (m/h)

HOLE CONDITION

Table with columns: Hole Dring, WOB, Weight of DC, Weight of Sliding

REDUCED PUMP SPEED

Table with columns: Pump No, Pressure, Stroke/Min, Depth

BOILER

Table with columns: Boiler #, Hours Run, pH, Stack Temp

SAFETY

Table with columns: Safety Topic, MESH, MACP

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424 20110125 1A Vendor Software Version Pason Year 2011 Month 01 Day 25

|  |  |  |              |                                    |   |
|--|--|--|--------------|------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30E   | Prov<br>NT   | Loc Type<br>LAT-LONG               | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |  | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/>    |
|  |  |  |              | Spud Date Time<br>2011/01/20 23:45 | Rig Release Date Time                   |



Pason

| DRILLING ASSEMBLY TOUR 1 |                  |         |       |        | DRILLING ASSEMBLY TOUR 2 |                  |         |       |        | DRILLING ASSEMBLY TOUR |                  |         |    |        |
|--------------------------|------------------|---------|-------|--------|--------------------------|------------------|---------|-------|--------|------------------------|------------------|---------|----|--------|
| No                       | Component        | OD      | ID    | Length | No                       | Component        | OD      | ID    | Length | No                     | Component        | OD      | ID | Length |
| 1                        | BIT              | 222.00  | 0.00  | 0.27   | 1                        | BIT              | 222.00  | 0.00  | 0.27   |                        |                  |         |    |        |
| 1                        | BIT SUB          | 128.00  | 60.00 | .77    | 1                        | BIT SUB          | 128.00  | 60.00 | .77    |                        |                  |         |    |        |
| 1                        | DC (5.00 IN)     | 128.00  | 60.00 | 9.58   | 1                        | DC (5.00 IN)     | 128.00  | 60.00 | 9.58   |                        |                  |         |    |        |
| 1                        | TELEDRIFT        | 125.00  | 59.00 | 2.60   | 1                        | TELEDRIFT        | 125.00  | 59.00 | 2.60   |                        |                  |         |    |        |
| 14                       | DC (5.00 IN)     | 126.00  | 60.00 | 134.37 | 14                       | DC (5.00 IN)     | 126.00  | 60.00 | 134.37 |                        |                  |         |    |        |
| 1                        | JARS-HYD/MECH    | 125.00  | 59.00 | 5.32   | 1                        | JARS-HYD/MECH    | 125.00  | 59.00 | 5.32   |                        |                  |         |    |        |
| 9                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 84.41  | 9                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 84.41  |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
| 6                        | Drill Pipe       | Stands  |       | 113.97 | 15                       | Drill Pipe       | Stands  |       | 285.22 |                        | Drill Pipe       | Stands  |    |        |
| 0                        | Drill Pipe       | Singles |       | 0.00   | 0                        | Drill Pipe       | Singles |       | 0.00   |                        | Drill Pipe       | Singles |    |        |
|                          | Kelly Down       |         |       | 9.71   |                          | Kelly Down       |         |       | 8.46   |                        | Kelly Down       |         |    |        |
|                          | Total            |         |       | 361.00 |                          | Total            |         |       | 531.00 |                        | Total            |         |    |        |
|                          | Weight of DC     |         |       | 24.00  |                          | Weight of DC     |         |       | 24.00  |                        | Weight of DC     |         |    |        |
|                          | Weight of String |         |       | 26.00  |                          | Weight of String |         |       | 30.00  |                        | Weight of String |         |    |        |

| SPECIAL EVENTS |              |   |       |       |
|----------------|--------------|---|-------|-------|
| Tour No.       | Event No.    | Description   | Time  | Depth |
| 1              | Rig site H/S | H2S BOP DRILL, DISCUSSED CREW PROCEDURES AND RESPONCIBILITIES | 07:00 |       |
| 1              | JSA REVIEW   | B-35 RIG TONG USE, B-37 TUGGER(PROPER HANDLING)               | 07:00 |       |
| 2              | JSA REVIEW   | B-49 TONG DIE CHANGE OUT                                      | 12:00 |       |
|                |              |   |       |       |
|                |              |   |       |       |



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110125\_1A Vendor Software Version Pason Year 2011 Month 01 Day 25



License No 2073 Well Name PARA ET AL CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30E Prov NT Loc Type LAT-LONG Unique Well Id 302/H-03/6010-11730/0

Operator  
PARAMOUNT RESOURCES LTD.  
Operator's AFE  
10N110009  
Signature of Operator Representative  
JOSH BLINSTON

Contractor  
NABORS DRILLING  
Contractor's Job No  
C6473  
Signature of Contractor's Rig Manager  
MICHAEL NUGENT

Rig No 24 Well Type HORIZ Re-Entry   
Spud Date Time 2011/01/20 23:45  
Rig Release Date Time



Pason

TOUR 1 MUD TYPE FLOC WATER WATER x OIL OTHER

| Time               | 02:00                | 06:00     | 10:00     |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1040kg/m3            | 1040kg/m3 | 1050kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 38s/l                | 38s/l     | 38s/l     |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 9                    | 9         | 10        |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SHAKER    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110125\_1A Vendor Software Version Pason Year 2011 Month 01 Day 25



|  |  |  |   |                                      |   |
|--|--|--|---|--------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT  | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ<br>Spud Date Time<br>2011/01/20 23:45<br>Rig Release Date Time | Re-Entry<br><input type="checkbox"/> |   |



Pason

| TOUR   |                      | MUD TYPE   |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|------------|-----------|-----------|-------|--|-----|--|-------|--|
| 2      |                      | FLOC WATER |           |           | x     |  |     |  |       |  |
| Time   | 14:00                | 18:00      | 22:00     |           |       |  |     |  |       |  |
|        | Density              | 1050kg/m3  | 1060kg/m3 | 1060kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 38s/l      | 38s/l     | 38s/l     |       |  |     |  |       |  |
|        | Fluid Loss           |            |           |           |       |  |     |  |       |  |
|        | Fluid pH             | 9          | 9.5       | 9.5       |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER     | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                |            |           |           |       |  |     |  |       |  |
| PVT    |                      |            |           |           |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |            |           |           |       |  |     |  |       |  |
|        | Value                |            |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |            |           |           |       |  |     |  |       |  |
|        | Value                |            |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |            |           |           |       |  |     |  |       |  |
|        | Value                |            |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |            |           |           |       |  |     |  |       |  |
|        | Value                |            |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**FRONT PAGE SUMMARY**

License No 2073 Well Name PAVA ET AL CAMELION 24-03 HZ  
 Operator PAVANADOUR RESOURCES LTD.  
 Operator's A/E Operator's Job No 10N110009  
 10N110009  
 Signature of Operator Representative MICHAEL MCKENZIE

Tour Sheet Serial Number 34644, 20110726, 1A  
 Surface Location 60.0220.40M/17.20.00.30E  
 Pylon LAT/LONG 3020H.03060.0117200  
 Vendor Software Version Pason  
 Year 2011  
 Month Day 01 28

**DAILY CHECKS**  
 1) Operator Inspector - Weekly (Jung Check List)  
 2) Operator Inspector - Weekly (Jung Check List)  
 3) HSE Sign & Sign Outpost  
 4) HSE Sign & Sign Outpost  
 5) HSE Sign & Sign Outpost  
 6) HSE Sign & Sign Outpost  
 7) Weekly HSE Sign - (Per Line & Operator Line)  
 8) HSE Sign & Sign Outpost  
 9) HSE Sign & Sign Outpost  
 10) HSE Sign & Sign Outpost  
 11) Rig Site Health & Safety Meeting (operator/line)  
 12) HSE Sign & Sign Outpost  
 13) HSE Sign & Sign Outpost  
 14) HSE Sign & Sign Outpost  
 15) HSE Sign & Sign Outpost



| CODE                      | 1     | 2     | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10   | 11   | 12   | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21   | 22   | 23   | 24   | 25   | TOTAL |
|---------------------------|-------|-------|---|---|---|---|---|---|---|------|------|------|----|----|----|----|----|----|----|----|------|------|------|------|------|-------|
| Hours                     | 10:25 | 10:75 |   |   |   |   |   |   |   | 0:25 | 0:25 | 0:25 |    |    |    |    |    |    |    |    | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 12:00 |
| Drill                     | 10:25 | 10:75 |   |   |   |   |   |   |   | 0:25 | 0:25 | 0:25 |    |    |    |    |    |    |    |    | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 12:00 |
| Standby                   |       |       |   |   |   |   |   |   |   |      |      |      |    |    |    |    |    |    |    |    |      |      |      |      |      | 0:00  |
| Other                     |       |       |   |   |   |   |   |   |   |      |      |      |    |    |    |    |    |    |    |    |      |      |      |      |      | 0:00  |
| <b>FUEL @ 08:00 HOURS</b> |       |       |   |   |   |   |   |   |   |      |      |      |    |    |    |    |    |    |    |    |      |      |      |      |      | 34.00 |
| <b>WEATHER</b>            |       |       |   |   |   |   |   |   |   |      |      |      |    |    |    |    |    |    |    |    |      |      |      |      |      | 24.00 |

**TOUR 1 SIGNATURE OF DRILLER**

WAGS STEVENSON

START TIME 09:00

END TIME 12:00

**DRILLING ASSEMBLY**

BR Number 2  
 Size M 3 3 2  
 LWC Code HED  
 Manufacturer HED  
 Type MSF 513 M A 3 D  
 Serial No 139427  
 Jbs 10.3 10.3 10.3 10.3  
 Depth Out (m) 638  
 Depth In (m) 277  
 Total Drilled (m) 10.25  
 Has Run Today  
 Cumulative Run 24.28  
 Entry Date 20110726

**HOLE CONDITION**

WOB 29  
 Hole Drag 19  
 Torque at Bottom  
 Fil on Bottom

**MUD RECORD**

Mud Type Water  
 Time 02:00  
 Density 1090  
 Funnel Viscosity 39ml  
 Fluid Loss 37.4  
 pH 9.5  
 Location of Sample  
 Depth  
 PVT  
 Circulation Type Low Sol. SPM Pressure Mud Wt. SHOCK 150 100 3000 12

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction | Type      |
|-------|-------|-----------|-----------|-----------|
| 06:00 | 644m  | 1         | 0         | TELEDRIFT |
| 06:30 | 911m  | 2         | 0         | TELEDRIFT |
| 06:50 | 971m  | 2.0       | 0         | TELEDRIFT |
| 11:00 | 610m  | 2.0       | 0         | TELEDRIFT |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
| CENTRIFUGE     | 12        | 1060           | 1050               |

**MUD MATERIALS ADDED**

| Product          | Amount | Type |
|------------------|--------|------|
| SAMUSET          | 40     | SACK |
| ENVIRONMENT-LOC  | 10     | SACK |
| DEFROMER         | 2      | PAIL |
| DEFROMER         | 2      | PAIL |
| HYPERDRILL 23710 | 1      | SACK |

**Boiler #** Hours Run 12 pH 14 Stack Temp 300

**SAFETY** Safety Topic CONNECTIONS

**TIME LOG**

| From  | To    | Elapsed | Code   | Details of Operations in Sequence & Remarks  |
|-------|-------|---------|--------|--|
| 00:00 | 00:40 | 0:40    | 0:15   | DRILL 223MM HOLE FROM 513M TO 638M   |
| 00:40 | 01:00 | 0:20    | 0:25   | RIG SERVICE GRABBER (WASH PIPE TO CHECK DIMENSIONS) DRILL LINE CHECK OIL LEVEL & CLEAN BOX & FLOOD MOTOR FIT ANNUAL 29 SEC TO CLOSE FIT STABBING VALVE C/O |
| 01:00 | 07:00 | 6:00    | 0:25/1 | DRILL 223MM HOLE FROM 638M TO 620M   |
| 07:00 | 07:15 | 0:15    | 0:25/1 | SAFETY MEETING WITH BOTH CREWS   |
| 07:15 | 10:40 | 3:25    | 3:50   | DRILL 223MM HOLE FROM 620M 638M  |
| 10:40 | 12:00 | 1:20    | 1:20/0 | ACCUMULATIVE DEVIATION SURVEY CONNECTIONS WORK PIPE  |

**TOUR 2 SIGNATURE OF DRILLER**

DUSTIN GIBSON

START TIME 12:00

END TIME 24:00

**DRILLING ASSEMBLY**

BR Number 2  
 Size M 3 3 2  
 LWC Code HED  
 Manufacturer HED  
 Type MSF 513 M A 3 D  
 Serial No 139427  
 Jbs 10.3 10.3 10.3 10.3  
 Depth Out (m) 361  
 Depth In (m) 423  
 Total Drilled (m) 10.75  
 Has Run Today  
 Cumulative Run 35.03  
 Entry Date 20110726

**HOLE CONDITION**

WOB 14  
 Hole Drag 16  
 Torque at Bottom  
 Fil on Bottom

**MUD RECORD**

Mud Type Other  
 Time 14:00  
 Density 1030  
 Funnel Viscosity 34ml  
 Fluid Loss 34.4  
 pH 8.5  
 Location of Sample  
 Depth  
 PVT  
 Circulation Type Low Sol. SPM Pressure Mud Wt. SHOCK 150 100 4000 12

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction | Type      |
|-------|-------|-----------|-----------|-----------|
| 13:30 | 635m  | 1.5       | 0         | TELEDRIFT |
| 13:50 | 102m  | 2         | 0         | TELEDRIFT |
| 17:40 | 754m  | 4         | 0         | TELEDRIFT |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
| CENTRIFUGE     | 12        | 1020           | 1010               |

**MUD MATERIALS ADDED**

| Product          | Amount | Type |
|------------------|--------|------|
| HYPERDRILL 23710 | 2      | SACK |
| DEFROMER         | 2      | PAIL |
| ENVIRONMENT-LOC  | 2      | SACK |
| ENVIRONMENT-LOC  | 8      | SACK |
| KONGSKIL         | 2      | SACK |
| HYPERDRILL 23710 | 1      | SACK |

**Boiler #** Hours Run 12 pH 9.2 Stack Temp 300

**SAFETY** Safety Topic SCBA PACK TRAINING WITH CREW

**TIME LOG**

| From  | To    | Elapsed | Code   | Details of Operations in Sequence & Remarks |
|-------|-------|---------|--------|---|
| 12:00 | 15:45 | 3:45    | 3:75   | DRILL 223MM HOLE 638M 654M                  |
| 15:45 | 16:00 | 0:15    | 0:15   | RIG SERVICE                                 |
| 16:00 | 19:00 | 3:00    | 3:00   | DRILL 223MM HOLE 654M 700M                  |
| 19:00 | 19:15 | 0:15    | 0:25/1 | MANHOLES SAFETY MEETING WITH RIG CREWS      |
| 19:15 | 23:15 | 4:00    | 4:00   | DRILL 223MM HOLE FROM 700M TO 754M          |
| 23:15 | 24:00 | 0:45    | 0:75/0 | ACCUMULATIVE DEVIATION SURVEY & CONNECTIONS |

**TOUR 3 SIGNATURE OF DRILLER**

WAGS STEVENSON

START TIME

END TIME

**DRILLING ASSEMBLY**

BR Number  
 Size  
 LWC Code  
 Manufacturer  
 Type  
 Serial No  
 Jbs  
 Depth Out (m)  
 Depth In (m)  
 Total Drilled (m)  
 Has Run Today  
 Cumulative Run  
 Entry Date

**HOLE CONDITION**

WOB  
 Hole Drag  
 Torque at Bottom  
 Fil on Bottom

**MUD RECORD**

Mud Type  
 Time  
 Density  
 Funnel Viscosity  
 Fluid Loss  
 pH  
 Location of Sample  
 Depth  
 PVT  
 Circulation Type

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|------|-------|-----------|-----------|------|

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
|----------------|-----------|----------------|--------------------|

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|---------|--------|------|

**Boiler #** Hours Run pH Stack Temp

**SAFETY** Safety Topic

**TIME LOG**

| From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
|------|----|---------|------|---|
|------|----|---------|------|---|

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424 20110126 1A Vendor Software Version Pason Year 2011 Month 01 Day 26

|  |  |  |              |                      |   |
|--|--|--|--------------|----------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30E   | Prov<br>NT   | Loc Type<br>LAT-LONG | Unique Well Id<br>302/H-03/6010-11730/0                     |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |  | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ   | Spud Date Time<br>2011/01/20 23:45<br>Rig Release Date Time |



Pason

| DRILLING ASSEMBLY TOUR 1 |                  |         |       |        | DRILLING ASSEMBLY TOUR 2 |                  |         |       |        | DRILLING ASSEMBLY TOUR |                  |         |    |        |
|--------------------------|------------------|---------|-------|--------|--------------------------|------------------|---------|-------|--------|------------------------|------------------|---------|----|--------|
| No                       | Component        | OD      | ID    | Length | No                       | Component        | OD      | ID    | Length | No                     | Component        | OD      | ID | Length |
| 1                        | BIT              | 222.00  | 0.00  | 0.27   | 1                        | BIT              | 222.00  | 0.00  | 0.27   |                        |                  |         |    |        |
| 1                        | BIT SUB          | 128.00  | 60.00 | .77    | 1                        | BIT SUB          | 128.00  | 60.00 | 0.77   |                        |                  |         |    |        |
| 1                        | DC (5.00 IN)     | 128.00  | 60.00 | 9.58   | 1                        | DC (5.00 IN)     | 128.00  | 60.00 | 9.58   |                        |                  |         |    |        |
| 1                        | TELEDRIFT        | 125.00  | 59.00 | 2.60   | 1                        | TELEDRIFT        | 125.00  | 59.00 | 2.60   |                        |                  |         |    |        |
| 14                       | DC (5.00 IN)     | 126.00  | 60.00 | 134.37 | 14                       | DC (5.00 IN)     | 126.00  | 60.00 | 134.37 |                        |                  |         |    |        |
| 1                        | JARS-HYD/MECH    | 125.00  | 59.00 | 5.32   | 1                        | JARS-HYD/MECH    | 125.00  | 59.00 | 5.32   |                        |                  |         |    |        |
| 9                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 84.41  | 9                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 84.41  |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
|                          |                  |         |       |        |                          |                  |         |       |        |                        |                  |         |    |        |
| 20                       | Drill Pipe       | Stands  |       | 381.13 | 28                       | Drill Pipe       | Stands  |       | 533.99 |                        | Drill Pipe       | Stands  |    |        |
| 1                        | Drill Pipe       | Singles |       | 9.17   | 0                        | Drill Pipe       | Singles |       | 0.00   |                        | Drill Pipe       | Singles |    |        |
|                          | Kelly Down       |         |       | 10.38  |                          | Kelly Down       |         |       | 13.02  |                        | Kelly Down       |         |    |        |
|                          | Total            |         |       | 638.00 |                          | Total            |         |       | 784.33 |                        | Total            |         |    |        |
|                          | Weight of DC     |         |       | 24.00  |                          | Weight of DC     |         |       | 24.00  |                        | Weight of DC     |         |    |        |
|                          | Weight of String |         |       | 30.00  |                          | Weight of String |         |       | 35.00  |                        | Weight of String |         |    |        |

| SPECIAL EVENTS |            |   |       |       |
|----------------|------------|---|-------|-------|
| Tour No.       | Event No.  | Description   | Time  | Depth |
| 1              | JSA REVIEW | A-20 RIG SERVICE  | 01:00 |       |
| 1              | JSA REVIEW | A-35 CHECKING FLUIDS  | 03:00 |       |
| 1              | Hazard ID  | BRAKE OUYT TONGS NOT HUNG UP BY CHAIN                                     | 04:00 |       |
| 1              | Hazard ID  | TRUCKS NOT PARKED FACING EXIT   | 04:00 |       |
| 1              | N.S.M.     | REVIEW LOCKOUT PROCEDURS IN NABORS DRILLING SAFETY MANUIAL 9-1.2          | 04:00 |       |
| 2              | N.S.M.     | DON SCBA'S WITH CREW (PACK TRAINING) DISCUSSED LOCKOUT TAG OUT PROCEDURES | 12:00 |       |



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No: 0X8424\_20110126\_1A Vendor Software Version: Pason Year: 2011 Month: 01 Day: 26



|  |  |  |                    |   |   |
|--|--|--|--------------------|---|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT         | Loc Type<br>LAT-LONG  | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Re-Entry<br><input type="checkbox"/><br>Spud Date Time<br>2011/01/20 23:45<br>Rig Release Date Time |   |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 1      |                      |           |           |           | x     |  |     |  |       |  |
| Time   | 02:00                | 06:00     | 10:00     |           |       |  |     |  |       |  |
|        | Density              | 1060kg/m3 | 1030kg/m3 | 1030kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 39s/l     | 37s/l     | 34s/l     |       |  |     |  |       |  |
|        | Fluid Loss           |           |           |           |       |  |     |  |       |  |
|        | Fluid pH             | 9         | 9.5       | 8.0       |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                |           |           |           |       |  |     |  |       |  |
| PVT    |                      |           |           |           |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No: 0X8424\_20110126\_1A Vendor Software Version: Pason Year: 2011 Month: 01 Day: 26

|  |  |  |                    |                                    |   |
|--|--|--|--------------------|------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/01/20 23:45 | Re-Entry<br><input type="checkbox"/>    |



Pason

TOUR **2** MUD TYPE **POLYMER** WATER  OIL  OTHER

|                    | Time                 | MUD TYPE     |           |       | WATER | OIL | OTHER |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|--------------|-----------|-------|-------|-----|-------|--|--|--|--|--|--|--|--|--|--|--|--|
|                    |                      | 14:00        | 18:00     | 22:00 |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Density            | 1030kg/m3            | 1010kg/m3    | 1010kg/m3 |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 34s/l                | 34s/l        | 34s/l     |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         |                      |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 8.5                  | 8.0          | 8         |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SUCTION TANK | SHAKER    |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              |                      |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                |                      |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |              |           |       |       |     |       |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**FRONT PAGE SUMMARY**

|                                    |   |   |                                  |                      |                                       |   |                             |              |
|------------------------------------|---|---|----------------------------------|----------------------|---------------------------------------|---|-----------------------------|--------------|
| License No<br>2073                 | Well Name<br>PARA ET AL CAMELTON 2H-03 HZ | Your Sheet Serial Number<br>30424_2071072_1A            | Vendor Software Version<br>PASON | Year<br>2011         | Month<br>01                           | Day<br>27   | <b>DAILY CHECKS</b>         | <b>OP RM</b> |
| Operator<br>PROMOUNT RESOURCES LTD | Contractor<br>MAJORIS DRILLING            | Surface Location<br>60:02:20 40N117:20:06 20E           | Prov<br>NT                       | Loc Type<br>LAT-LONG | Unique Well ID<br>30204-03-010-117200 | Reg ID<br>1   | 1) Daily Pre-Run Inspection | 003A MIN     |
| Operator's REP<br>104110009        | Contractor's Job No<br>C6473              | Signature of Contractor's Rep Manager<br>MICHAEL WOODEN | Reg No<br>24                     | HOHZ                 | Send Date Time<br>2011/07/20 23:45    | 1) Rig Site Setup & Safety Meeting (pre-run/assembly) | 2) Daily Pre-Run Inspection | 003B MIN     |
|                                    |   |   |                                  |                      | Rig Release Date Time                 | 3) Daily Pre-Run Inspection                           | 3) Daily Pre-Run Inspection | 003C MIN     |
|                                    |   |   |                                  |                      |                                       | 4) Daily Pre-Run Inspection                           | 4) Daily Pre-Run Inspection | 003D MIN     |
|                                    |   |   |                                  |                      |                                       | 5) Daily Pre-Run Inspection                           | 5) Daily Pre-Run Inspection | 003E MIN     |

| CODE   | 1     | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | TOTAL |
|--------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| DRILL  |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 12.00 |
| Remain |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 12.00 |
| Actual | 6:25  | 0:25 | 0:54 | 4:01 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 12.00 |
| Hour 1 |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 12.00 |
| Hour 2 |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 12.00 |
| Hour 3 |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 12.00 |
| Total  | 17:25 | 0:25 | 0:54 | 4:00 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 0:25 | 24.00 |

**WEATHER**

FUEL @ 08:00 HOURS

PASON

**TOUR 1 SIGNATURE OF DRILLER**

VOID SIGNATURE

**DRILLING ASSEMBLY**

|              |      |     |           |    |    |        |
|--------------|------|-----|-----------|----|----|--------|
| BR Number    | 2    | No  | Component | 00 | ID | Length |
| Size         | 222  | BIT |           |    |    | 0.27m  |
| MDC Code     | M    | 3   | 1         | 2  |    | 128.60 |
| Manufacturer | FEED |     |           |    |    | 0.77m  |

**MUD RECORD**

|                  |       |       |       |
|------------------|-------|-------|-------|
| Mud Type         | Water | Oil   | Oil   |
| Time             | 02:50 | 06:00 | 10:40 |
| Density          | 1020  | 1040  | 3642  |
| Funnel Viscosity | 350   | 360   | 360   |
| Fluid Loss       |       |       |       |

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction | Type      |
|-------|-------|-----------|-----------|-----------|
| 02:50 | 90m   | 5'        | 0         | TELEDRIFT |
| 06:00 | 865m  | 1'        | 0         | TELEDRIFT |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
| CENTRIFUGE     | 12        | 1020           | 1950               |
|                |           |                | 1020               |

**MUD MATERIALS ADDED**

| Equipment/LOC    | Product | Amount | Type |
|------------------|---------|--------|------|
| HYPERDRILL 24700 |         | 4      | SACK |
| SAMWASH          |         | 8      | SACK |

**TIME LOG**

| From  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks                              |
|-------|-------|---------|------|--|
| 00:00 | 02:00 | 2:00    |      | DRILL 222MM HOLE PER 72MM TO 81MM  |
| 02:00 | 02:15 | 0:15    |      | RIG SERVICE GEARBOX WASH PER BLOCKS CHECK ON LEVEL AN LOCK MOTOR & GEAR  |
| 02:15 | 02:25 | 0:10    |      | BOX 717 ANNUAL OIL SEC TO CLOSE FIT STABBING VALVE CO                    |
| 02:25 | 02:45 | 0:20    |      | DRILL 222MM HOLE PER 111MM TO 89MM                                       |
| 02:45 | 02:50 | 0:05    |      | CIRC HOLE CLEAN WORKS STRING   |
| 02:50 | 02:55 | 0:05    |      | PER OUT OF HOLE PER ROOM TO 151M FLOW CHECK @ 89MM FLOW CHECK @ 5.5 151M |
| 02:55 | 02:58 | 0:03    |      | HANDOVER SAFETY MEETING WITH RIG CREWS                                   |
| 02:58 | 03:05 | 0:07    |      | WASHER TRIP TO THE SHOE. HOLE WAS IN GOOD SHAPE                          |
| 03:05 | 03:45 | 0:40    |      | TRIP IN HOLE FROM 350M 84M   |
| 03:45 | 04:00 | 0:15    |      | REAM & CLEAN 84M 50M   |
| 04:00 | 04:15 | 0:15    |      | DRILL 89MM 870M  |

**SAFETY**

Safety Topic: SERVICE AND EQUIPMENT

START TIME: 12:00, END TIME: 24:00

**TOUR 2 SIGNATURE OF DRILLER**

DUSTIN GIBSON

**DRILLING ASSEMBLY**

|              |      |     |           |    |    |        |
|--------------|------|-----|-----------|----|----|--------|
| BR Number    | 2    | No  | Component | 00 | ID | Length |
| Size         | 222  | BIT |           |    |    | 0.27m  |
| MDC Code     | M    | 3   | 1         | 2  |    | 128.60 |
| Manufacturer | FEED |     |           |    |    | 0.77m  |

**MUD RECORD**

|                  |       |       |       |
|------------------|-------|-------|-------|
| Mud Type         | Water | Oil   | Oil   |
| Time             | 14:30 | 18:00 | 10:40 |
| Density          | 1050  | 1040  | 354   |
| Funnel Viscosity | 370   | 350   | 350   |
| Fluid Loss       |       |       |       |

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction | Type      |
|-------|-------|-----------|-----------|-----------|
| 14:30 | 655m  | 5'        | 0         | TELEDRIFT |
| 18:00 | 565m  | 4'        | 0         | TELEDRIFT |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
| CENTRIFUGE     | 12        | 1050           | 1950               |
|                |           |                | 1020               |

**MUD MATERIALS ADDED**

| Equipment/LOC    | Product | Amount | Type |
|------------------|---------|--------|------|
| HYPERDRILL 24700 |         | 4      | SACK |

**TIME LOG**

| From  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks                             |
|-------|-------|---------|------|---|
| 12:00 | 16:45 | 4:45    |      | DRILL 222MM HOLE PER 72MM TO 81MM                                       |
| 16:45 | 17:00 | 0:15    |      | RIG SERVICE GEARBOX WASH PER BLOCKS CHECK ON LEVEL AN LOCK MOTOR & GEAR |
| 17:00 | 19:00 | 2:00    |      | DRILL 222MM HOLE PER 109M 93MM  |
| 19:00 | 19:15 | 0:15    |      | RIG CREWS HANDOVER SAFETY MEETING                                       |
| 19:15 | 23:00 | 3:45    |      | DRILL 222MM HOLE PER 108MM TO 83MM                                      |
| 23:00 | 23:15 | 0:15    |      | RIG SERVICE WORK ON PLYMOR FLOW & TORQUE                                |
| 23:15 | 24:00 | 0:45    |      | ACCUM TELEDRIFT SURVEYS AND CONNECTIONS                                 |

**SAFETY**

Safety Topic: HAZARDOUS MATERIALS

START TIME: 12:00, END TIME: 24:00

**TOUR 3 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**

|              |      |           |    |    |        |        |
|--------------|------|-----------|----|----|--------|--------|
| BR Number    | No   | Component | 00 | ID | Length |        |
| Size         | 222  | BIT       |    |    | 0.27m  |        |
| MDC Code     | M    | 3         | 1  | 2  |        | 128.60 |
| Manufacturer | FEED |           |    |    |        | 0.77m  |

**MUD RECORD**

|                  |       |       |       |
|------------------|-------|-------|-------|
| Mud Type         | Water | Oil   | Oil   |
| Time             | 14:30 | 18:00 | 10:40 |
| Density          | 1050  | 1040  | 354   |
| Funnel Viscosity | 370   | 350   | 350   |
| Fluid Loss       |       |       |       |

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction | Type      |
|-------|-------|-----------|-----------|-----------|
| 14:30 | 655m  | 5'        | 0         | TELEDRIFT |
| 18:00 | 565m  | 4'        | 0         | TELEDRIFT |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
| CENTRIFUGE     | 12        | 1050           | 1950               |
|                |           |                | 1020               |

**MUD MATERIALS ADDED**

| Equipment/LOC    | Product | Amount | Type |
|------------------|---------|--------|------|
| HYPERDRILL 24700 |         | 4      | SACK |

**TIME LOG**

| From  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks                             |
|-------|-------|---------|------|---|
| 12:00 | 16:45 | 4:45    |      | DRILL 222MM HOLE PER 72MM TO 81MM                                       |
| 16:45 | 17:00 | 0:15    |      | RIG SERVICE GEARBOX WASH PER BLOCKS CHECK ON LEVEL AN LOCK MOTOR & GEAR |
| 17:00 | 19:00 | 2:00    |      | DRILL 222MM HOLE PER 109M 93MM  |
| 19:00 | 19:15 | 0:15    |      | RIG CREWS HANDOVER SAFETY MEETING                                       |
| 19:15 | 23:00 | 3:45    |      | DRILL 222MM HOLE PER 108MM TO 83MM                                      |
| 23:00 | 23:15 | 0:15    |      | RIG SERVICE WORK ON PLYMOR FLOW & TORQUE                                |
| 23:15 | 24:00 | 0:45    |      | ACCUM TELEDRIFT SURVEYS AND CONNECTIONS                                 |

**SAFETY**

Safety Topic: HAZARDOUS MATERIALS

START TIME: 12:00, END TIME: 24:00





**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110127\_1A Vendor Software Version Pason Year 2011 Month 01 Day 27



|  |  |  |                                    |                                      |   |
|--|--|--|------------------------------------|--------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT                         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |   |
|  |  |  | Spud Date Time<br>2011/01/20 23:45 | Rig Release Date Time                |   |



Pason

| TOUR   |                      | MUD TYPE  |           |              | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|--------------|-------|--|-----|--|-------|--|
| 1      |                      |           |           |              | x     |  |     |  |       |  |
| Time   | 02:00                | 06:00     | 10:00     |              |       |  |     |  |       |  |
|        | Density              | 1030kg/m3 | 1040kg/m3 | 1050kg/m3    |       |  |     |  |       |  |
|        | Funnel Viscosity     | 35s/l     | 36s/l     | 35s/l        |       |  |     |  |       |  |
|        | Fluid Loss           |           |           |              |       |  |     |  |       |  |
|        | Fluid pH             | 8         | 8         | 8.0          |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SUCTION TANK |       |  |     |  |       |  |
|        | Depth                |           |           |              |       |  |     |  |       |  |
| PVT    |                      |           |           |              |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |              |       |  |     |  |       |  |
|        | Value                |           |           |              |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |              |       |  |     |  |       |  |
|        | Value                |           |           |              |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |              |       |  |     |  |       |  |
|        | Value                |           |           |              |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |              |       |  |     |  |       |  |
|        | Value                |           |           |              |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110127\_1A Vendor Software Version Pason Year 2011 Month 01 Day 27



|  |  |  |                    |                                    |   |
|--|--|--|--------------------|------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/01/20 23:45 | Re-Entry<br><input type="checkbox"/>    |
| Rig Release Date Time  |  |  |                    |                                    |   |



Pason

| TOUR               |                      | MUD TYPE     |              |  | WATER |  | OIL |  | OTHER |  |
|--------------------|----------------------|--------------|--------------|--|-------|--|-----|--|-------|--|
| 2                  |                      | POLYMER      |              |  | x     |  |     |  |       |  |
| Time               | 14:00                | 18:00        | 22:00        |  |       |  |     |  |       |  |
| Density            | 1050kg/m3            | 1040kg/m3    | 1060kg/m3    |  |       |  |     |  |       |  |
| Funnel Viscosity   | 37s/l                | 35s/l        | 37s/l        |  |       |  |     |  |       |  |
| Fluid Loss         |                      |              |              |  |       |  |     |  |       |  |
| Fluid pH           | 8.0                  | 7.5          | 7.5          |  |       |  |     |  |       |  |
| Location of Sample | SUCTION TANK         | SUCTION TANK | SUCTION TANK |  |       |  |     |  |       |  |
| Depth              |                      |              |              |  |       |  |     |  |       |  |
| PVT                |                      |              |              |  |       |  |     |  |       |  |
| Test 1             | Type (Ex: Chlorides) |              |              |  |       |  |     |  |       |  |
|                    | Value                |              |              |  |       |  |     |  |       |  |
| Test 2             | Type (ex: Sand%)     |              |              |  |       |  |     |  |       |  |
|                    | Value                |              |              |  |       |  |     |  |       |  |
| Test 3             | Type (ex: Hard Ca)   |              |              |  |       |  |     |  |       |  |
|                    | Value                |              |              |  |       |  |     |  |       |  |
| Test 4             | Type (ex: Sulfides)  |              |              |  |       |  |     |  |       |  |
|                    | Value                |              |              |  |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

FRONT PAGE SUMMARY

License No 2073 Well Name PAPA ET AL CAMELTON 2H-03 HZ
Operator PAPAACCOUNT RESOURCES LTD
Operator's A/E 101N10009

Your Sheet Serial Number 30424\_2010128\_18
Surface Location 60 02 20 40N 117 20 06 W0E
Vendor Software Version Pason

DAILY CHECKS
1) Check for gas before starting (using Check List)
2) Check for gas before starting (using Check List)
3) Check Spill before if needed



Table with columns: CODE, RIG, DATE, REMAINING, CORING, HOLES, TIPS, PAPER, CUT OFF, DRY, WETLINE, RUN CLOG, WIRE LOG, HOLE UP, TEST, DISTANCE, PUMP, SQUARE, FISHING, DR, SAFETY, WALK, WAITING, RIG, OTHER, TOTAL. Includes a WEATHER section at the bottom right.

TOUR 1 SIGNATURE OF DRILLER

WADE STEVENSON

DRILLING ASSEMBLY

Table with columns: BIT NUMBER, SIZE, UADC CODE, MANUFACTURER, SERIAL NO, DEPTH OUT (IN), DEPTH IN (IN), TOTAL DRILLED (IN), THIS RUN TODAY, CUMULATIVE THIS RUN.

CUTTING STRUCTURE

Table with columns: TI, TO, MOC, LOC, BRG, GAUGE, REASON PULLED, TOTAL RUN (IN/HY).

HOLE CONDITION

Table with columns: HOSE DRAG, DOWN, WEIGHT OF DC, WEIGHT OF STRING, FILL ON BOTTOM.

REDUCED PUMP SPEED

Table with columns: ZUMP NO, PRESSURE, STROKES/MIN, DEPTH.

DEVIATION SURVEYS

Table with columns: TIME, DEPTH, DEVIATION, DIRECTION, TYPE.

SOLIDS CONTROL

Table with columns: EQUIPMENT NAME, HOURS RUN, INHALE DENSITY, OVER FLOW DENSITY, UNDER FLOW DENSITY.

MUD MATERIALS ADDED

Table with columns: EQUIPMENT NAME, HOURS RUN, INHALE DENSITY, OVER FLOW DENSITY, UNDER FLOW DENSITY.

TIME LOG

Table with columns: FROM, TO, EQUIPED, CODE, DETAILS OF OPERATIONS IN SEQUENCE & REMARKS.

SAFETY

Table with columns: SAFETY TOPIC, MISC, MOC, MOC/P.

START TIME

Table with columns: START TIME, END TIME.

END TIME

Table with columns: FROM, TO, EQUIPED, CODE, DETAILS OF OPERATIONS IN SEQUENCE & REMARKS.

SAFETY

Table with columns: SAFETY TOPIC, MISC, MOC, MOC/P.

START TIME

Table with columns: START TIME, END TIME.

END TIME

Table with columns: FROM, TO, EQUIPED, CODE, DETAILS OF OPERATIONS IN SEQUENCE & REMARKS.

SAFETY

Table with columns: SAFETY TOPIC, MISC, MOC, MOC/P.

START TIME

Table with columns: START TIME, END TIME.

END TIME

Table with columns: FROM, TO, EQUIPED, CODE, DETAILS OF OPERATIONS IN SEQUENCE & REMARKS.

TOUR 2 SIGNATURE OF DRILLER

DUSTIN GIBSON

DRILLING ASSEMBLY

Table with columns: BIT NUMBER, SIZE, UADC CODE, MANUFACTURER, SERIAL NO, DEPTH OUT (IN), DEPTH IN (IN), TOTAL DRILLED (IN), THIS RUN TODAY, CUMULATIVE THIS RUN.

CUTTING STRUCTURE

Table with columns: TI, TO, MOC, LOC, BRG, GAUGE, REASON PULLED, TOTAL RUN (IN/HY).

HOLE CONDITION

Table with columns: HOSE DRAG, DOWN, WEIGHT OF DC, WEIGHT OF STRING, FILL ON BOTTOM.

REDUCED PUMP SPEED

Table with columns: ZUMP NO, PRESSURE, STROKES/MIN, DEPTH.

DEVIATION SURVEYS

Table with columns: TIME, DEPTH, DEVIATION, DIRECTION, TYPE.

SOLIDS CONTROL

Table with columns: EQUIPMENT NAME, HOURS RUN, INHALE DENSITY, OVER FLOW DENSITY, UNDER FLOW DENSITY.

MUD MATERIALS ADDED

Table with columns: EQUIPMENT NAME, HOURS RUN, INHALE DENSITY, OVER FLOW DENSITY, UNDER FLOW DENSITY.

TIME LOG

Table with columns: FROM, TO, EQUIPED, CODE, DETAILS OF OPERATIONS IN SEQUENCE & REMARKS.

SAFETY

Table with columns: SAFETY TOPIC, MISC, MOC, MOC/P.

START TIME

Table with columns: START TIME, END TIME.

END TIME

Table with columns: FROM, TO, EQUIPED, CODE, DETAILS OF OPERATIONS IN SEQUENCE & REMARKS.

SAFETY

Table with columns: SAFETY TOPIC, MISC, MOC, MOC/P.

START TIME

Table with columns: START TIME, END TIME.

END TIME

Table with columns: FROM, TO, EQUIPED, CODE, DETAILS OF OPERATIONS IN SEQUENCE & REMARKS.

SAFETY

Table with columns: SAFETY TOPIC, MISC, MOC, MOC/P.

START TIME

Table with columns: START TIME, END TIME.

END TIME

Table with columns: FROM, TO, EQUIPED, CODE, DETAILS OF OPERATIONS IN SEQUENCE & REMARKS.

SAFETY

Table with columns: SAFETY TOPIC, MISC, MOC, MOC/P.

START TIME

Table with columns: START TIME, END TIME.

END TIME

Table with columns: FROM, TO, EQUIPED, CODE, DETAILS OF OPERATIONS IN SEQUENCE & REMARKS.

SAFETY

Table with columns: SAFETY TOPIC, MISC, MOC, MOC/P.

START TIME

Table with columns: START TIME, END TIME.

END TIME

Table with columns: FROM, TO, EQUIPED, CODE, DETAILS OF OPERATIONS IN SEQUENCE & REMARKS.



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110128\_1B Vendor Software Version Pason Year 2011 Month 01 Day 28



|  |  |  |                    |                                    |   |
|--|--|--|--------------------|------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/01/20 23:45 | Re-Entry<br><input type="checkbox"/>    |
| Rig Release Date Time  |  |  |                    |                                    |   |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |  |  |  |  |  |  |  |  |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|--|--|--|--|--|--|--|--|--|
| 1      |                      |           |           |           | X     |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Time                 | 02:00     | 06:00     | 10:00     |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Density              | 1050kg/m3 | 1040kg/m3 | 1110kg/m3 |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Funnel Viscosity     | 39s/l     | 38s/l     | 34s/l     |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Fluid Loss           |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Fluid pH             | 9         | 9.5       | 8.0       |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Depth                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
| PVT    |                      |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110128\_1B Vendor Software Version Pason Year 2011 Month 01 Day 28

License No 2073 Well Name PARA ET AL CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30E Prov NT Loc Type LAT-LONG Unique Well Id 302/H-03/6010-11730/0

|  |  |              |   |                                      |
|--|--|--------------|---|--------------------------------------|
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ<br>Spud Date Time<br>2011/01/20 23:45<br>Rig Release Date Time | Re-Entry<br><input type="checkbox"/> |
|--|--|--------------|---|--------------------------------------|



Pason

TOUR **2** MUD TYPE **GEL** WATER  OIL  OTHER

| Time               | 14:00                | 18:00     | 22:00     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1110kg/m3            | 1120kg/m3 | 1140kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 34s/l                | 37s/l     | 42s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         |                      |           | 22cm3     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 8.0                  | 8         | 8         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SHAKER    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              |                      |           | 1088m     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                |                      |           | 53m3      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

FRONT PAGE SUMMARY

Operator: PAXA ET AL. CAMERON 24-10-12
Contractor: HADORS DRILLING
Operator's A/E: CHRS
Signature of Contractor's Rep: MICHAEL NICKERT

Four Sheet Serial Number: 20444, 2011029, 1, 1
Surface Location: 60 02 20 40N117 20 06 W06
Vendor Software Version: Paxon
Print: LVL LONG 302H-03-0010-117200

DAILY CHECKS
1) Onsite Well Record Inspector (Using Check List)
2) HSE Sign Present if Required
3) HSE Sign Present if Required
4) Well Location & S&W Diagram Indexed



Table with columns: CODE, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25. Includes sub-tables for HOURS, METRES DRILLED, and WEATHER.

TOUR 1 SIGNATURE OF DRILLER

WAIDE STEVENSON

START TIME: 00:00

END TIME: 12:00

TOUR 1 SIGNATURE OF DRILLER form. Includes sections for DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, and SAFETY.

TOUR 2 SIGNATURE OF DRILLER

WAIDE STEVENSON

START TIME: 12:00

END TIME: 24:00

TOUR 2 SIGNATURE OF DRILLER form. Includes sections for DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, and SAFETY.

TOUR 3 SIGNATURE OF DRILLER

WAIDE STEVENSON

START TIME: 00:00

END TIME: 12:00

TOUR 3 SIGNATURE OF DRILLER form. Includes sections for DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, and SAFETY.



**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424 20110129 1A Vendor Software Version Pason Year 2011 Month 01 Day 29

|  |  |  |            |                      |   |
|--|--|--|------------|----------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30E   | Prov<br>NT | Loc Type<br>LAT-LONG | Unique Well Id<br>302/H-03/6010-11730/0   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |  | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT |            | Rig No<br>24         | Well Type<br>HORIZ<br>Spud Date Time<br>2011/01/20 23:45<br>Rig Release Date Time |



Pason

| DRILLING ASSEMBLY TOUR 1 |                  |        |         |         | DRILLING ASSEMBLY TOUR 2 |                  |        |         |         | DRILLING ASSEMBLY TOUR |                  |    |         |        |
|--------------------------|------------------|--------|---------|---------|--------------------------|------------------|--------|---------|---------|------------------------|------------------|----|---------|--------|
| No                       | Component        | OD     | ID      | Length  | No                       | Component        | OD     | ID      | Length  | No                     | Component        | OD | ID      | Length |
| 1                        | BIT              | 222.00 | 0.00    | 0.27    | 1                        | BIT              | 222.00 | 0.00    | 0.27    |                        |                  |    |         |        |
| 1                        | BIT SUB          | 128.00 | 60.00   | 0.77    | 1                        | BIT SUB          | 128.00 | 60.00   | 0.77    |                        |                  |    |         |        |
| 1                        | DC (5.00 IN)     | 128.00 | 60.00   | 9.58    | 1                        | DC (5.00 IN)     | 128.00 | 60.00   | 9.58    |                        |                  |    |         |        |
| 1                        | TELEDRIFT        | 125.00 | 59.00   | 2.60    | 1                        | TELEDRIFT        | 125.00 | 59.00   | 2.60    |                        |                  |    |         |        |
| 9                        | DC (5.00 IN)     | 126.00 | 60.00   | 86.35   | 9                        | DC (5.00 IN)     | 126.00 | 60.00   | 86.35   |                        |                  |    |         |        |
| 1                        | JARS-HYD/MECH    | 125.00 | 59.00   | 5.32    | 1                        | JARS-HYD/MECH    | 125.00 | 59.00   | 5.32    |                        |                  |    |         |        |
| 5                        | DC (5.00 IN)     | 126    | 60      | 48.02   | 5                        | DC (5.00 IN)     | 126    | 60      | 48.02   |                        |                  |    |         |        |
| 9                        | HWDP(4.0 IN)     | 102.00 | 64.00   | 84.41   | 9                        | HWDP(4.0 IN)     | 102.00 | 64.00   | 84.41   |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
| 45                       | Drill Pipe       |        | Stands  | 857.24  | 46                       | Drill Pipe       |        | Stands  | 876.48  |                        | Drill Pipe       |    | Stands  |        |
| 1                        | Drill Pipe       |        | Singles | 9.36    | 0                        | Drill Pipe       |        | Singles | 0.00    |                        | Drill Pipe       |    | Singles |        |
|                          | Kelly Down       |        |         | 10.08   |                          | Kelly Down       |        |         | 7.20    |                        | Kelly Down       |    |         |        |
|                          | Total            |        |         | 1114.00 |                          | Total            |        |         | 1121.00 |                        | Total            |    |         |        |
|                          | Weight of DC     |        |         | 24.00   |                          | Weight of DC     |        |         | 24.00   |                        | Weight of DC     |    |         |        |
|                          | Weight of String |        |         | 43.00   |                          | Weight of String |        |         | 44.00   |                        | Weight of String |    |         |        |

| SPECIAL EVENTS |             |   |       |       |
|----------------|-------------|---|-------|-------|
| Tour No.       | Event No.   | Description   | Time  | Depth |
| 1              | Revised JSA | JACKING RIG WITH RIG JACKERS  | 02:00 |       |
| 1              | Revised JSA | BLOWING BOILER DOWN WITH BLOW DOWN TANK   | 02:00 |       |
| 2              | JSA REVIEW  | PREPARE RIG SUB FOR SKIDDING (DERRICK STANDING). RIG OUT FRONT OF RIG (MANIFOLD/CATWALK, PIPE TABLE AND RACKS). SKID SUB AND DERRICK WITH TRUCKS. JACKING RIG WITH RIG JACKERS. | 15:00 |       |
|                |             |   |       |       |
|                |             |   |       |       |

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110129\_1A Vendor Software Version Pason Year 2011 Month 01 Day 29



|  |  |  |                    |                                    |   |
|--|--|--|--------------------|------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/01/20 23:45 | Re-Entry<br><input type="checkbox"/>    |



Pason

TOUR **1** MUD TYPE  WATER  OIL  OTHER

|                    | Time                 | MUD TYPE  |           |       | WATER | OIL | OTHER |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|-------|-------|-----|-------|--|--|--|--|--|--|--|--|
|                    |                      | 02:00     | 06:00     | 10:00 |       |     |       |  |  |  |  |  |  |  |  |
| Density            | 1120kg/m3            | 1120kg/m3 | 1120kg/m3 |       |       |     |       |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 43s/l                | 45s/l     | 45s/l     |       |       |     |       |  |  |  |  |  |  |  |  |
| Fluid Loss         |                      |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
| Fluid pH           | 8.5                  | 9         | 8.5       |       |       |     |       |  |  |  |  |  |  |  |  |
| Location of Sample |                      |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
| Depth              |                      |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
| PVT                |                      |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |       |       |     |       |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |       |       |     |       |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110129\_1A Vendor Software Version Pason Year 2011 Month 01 Day 29



|  |  |  |                    |                                    |   |
|--|--|--|--------------------|------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/01/20 23:45 | Re-Entry<br><input type="checkbox"/>    |



Pason

| TOUR   |                      | MUD TYPE  |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-------|--|-----|--|-------|--|
| 2      |                      | POLYMER   |           | x     |  |     |  |       |  |
| Time   | 14:00                | 22:00     |           |       |  |     |  |       |  |
|        | Density              | 1120kg/m3 | 1120kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 45s/l     | 43s/l     |       |  |     |  |       |  |
|        | Fluid Loss           |           | 12cm3     |       |  |     |  |       |  |
|        | Fluid pH             | 8.5       | 8.5       |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                |           |           |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**EQUIPMENT & SERVICES**

Tour Sheet Serial No  
0X8424\_20110129\_1A

Vendor Software Version  
Pason

Year Month Day  
2011 01 29



Pason

|                                      |                                       |                            |                       |                          |                       |
|--------------------------------------|---------------------------------------|----------------------------|-----------------------|--------------------------|-----------------------|
| License No                           | Well Name                             | Surface Location           | Prov                  | Loc Type                 | Unique Well Id        |
|                                      | 2073 PARA ET AL CAMERON 2H-03 HZ      | 60:02:20.40N/117:30:06.30E | NT                    | LAT-LONG                 | 302/H-03/6010-11730/0 |
| Operator                             | Contractor                            | Rig No                     | Well Type             | Re-Entry                 |                       |
| PARAMOUNT RESOURCES LTD.             | NABORS DRILLING                       | 24                         | HORIZ                 | <input type="checkbox"/> |                       |
| Operator's AFE                       | Contractor's Job No                   | C6473                      | Spud Date Time        |                          |                       |
|                                      | 10N110009                             |                            | 2011/01/20 23:45      |                          |                       |
| Signature of Operator Representative | Signature of Contractor's Rig Manager |                            | Rig Release Date Time |                          |                       |
| JOSH BLINSTON                        | MICHAEL NUGENT                        |                            |                       |                          |                       |

**GENERAL EQUIPMENT & SERVICE**

| Description               | Make       | Model | Provided by | Expense of | Rental Company | Serial No  | Usage | Quantity | Quantity Used |
|---------------------------|------------|-------|-------------|------------|----------------|------------|-------|----------|---------------|
| NDL LOADER UNIT # 214     | JOHN DEERE | 54H   | CONTRACTOR  | OPERATOR   | NDL            | UNIT # 214 | 24    |          |               |
| Remarks:                  |            |       |             |            |                |            |       |          |               |
| NDL CREW TRUCK UNIT # 122 | FORD       | F-250 | CONTRACTOR  | OPERATOR   | NDL            | UNIT # 122 | 24    |          |               |
| Remarks:                  |            |       |             |            |                |            |       |          |               |
| Remarks:                  |            |       |             |            |                |            |       |          |               |

**BOILERS**

| Boiler No | Make   | Model    | Provided by | Expense of | Rental Company | Serial No | Hours Today |
|-----------|--------|----------|-------------|------------|----------------|-----------|-------------|
| 1         | REGENT | CSAH-100 | CONTRACTOR  | OPERATOR   | NDL            | 100-1272  | 24          |
| Remarks:  |        |          |             |            |                |           |             |
| Remarks:  |        |          |             |            |                |           |             |
| Remarks:  |        |          |             |            |                |           |             |

**SHALE SHAKERS**

| Shaker No | Make  | Model  | Screen 1 |      |                          |                          | Screen 2 |      |                          |                          | Screen 3 |      |                          |                          | Screen 4 |      |                          |                          |
|-----------|-------|--------|----------|------|--------------------------|--------------------------|----------|------|--------------------------|--------------------------|----------|------|--------------------------|--------------------------|----------|------|--------------------------|--------------------------|
|           |       |        | Position | Size | Screen Changed?          | New?                     | Position | Size | Screen Changed?          | New?                     | Position | Size | Screen Changed?          | New?                     | Position | Size | Screen Changed?          | New?                     |
| 1         | SWACO | ALS II | 1        | 175  | <input type="checkbox"/> | <input type="checkbox"/> | 2        | 210  | <input type="checkbox"/> | <input type="checkbox"/> |          |      | <input type="checkbox"/> | <input type="checkbox"/> |          |      | <input type="checkbox"/> | <input type="checkbox"/> |
| Remarks:  |       |        |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |
| Remarks:  |       |        |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |
| Remarks:  |       |        |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |

**MUD PUMPS**

| Pump No  | Make | Model  | Provided by | Expense of | Rental Company | Serial No | Hours Today | Stroke Length | Rod Size | Pump Style |
|----------|------|--------|-------------|------------|----------------|-----------|-------------|---------------|----------|------------|
| 1        | CPMP | NB-800 | CONTRACTOR  | CONTRACTOR | NDL            |           | 17          | 228.6mm       |          | TRIPLEX    |
| Remarks: |      |        |             |            |                |           |             |               |          |            |
| Remarks: |      |        |             |            |                |           |             |               |          |            |
| Remarks: |      |        |             |            |                |           |             |               |          |            |

**BITS**

| Bit No | Size      | IADC Code |   |   |   | Manufacturer | Type           | Serial No | Jets     |          |          |          |          |          |          |           | Depth In  | Depth Out | Total Drilled | Total Hours Run Today | Cumulative Hours Run | Entry Date | Cutting Structure |    |     |     |        |      |     |               | Tour |
|--------|-----------|-----------|---|---|---|--------------|----------------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------------|-----------------------|----------------------|------------|-------------------|----|-----|-----|--------|------|-----|---------------|------|
|        |           | 1         | 2 | 3 | 4 |              |                |           | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8         |           |           |               |                       |                      |            | TI                | TO | MDC | LOC | BRG    | Gage | ODC | Reason Pulled |      |
| 2      | 222.00-mm | M         | 3 | 3 | 2 | REED         | MSF 513 M-A3 D | 128437    | 10.30-mm | 10.30-mm | 10.30-mm | 10.3-0mm | 10.3-0mm | 10.30-mm | 10.30-mm | 361.00m   | 1114.0-0m | 753.00m   | 3.00          | 72.00                 | 11/01/25             | 3          | 6                 | BT | S   | X   | 1.00mm | CT   | PR  | 10.46m/hr     | 1    |
| 3      | 222.00-mm |           | 4 | 4 | 7 | REED         | R15MP          | EM2856    | 14.30-mm | 14.30-mm | 14.30-mm |          |          |          |          | 1114.0-0m |           |           |               | 0.00                  | 11/01/29             |            |                   |    |     |     |        |      |     |               | 1    |
| 3      | 222.00-mm |           | 4 | 4 | 7 | REED         | R15MP          | EM2856    | 14.30-mm | 14.30-mm | 14.30-mm |          |          |          |          | 1114.0-0m | 7.00m     | 1.50      | 1.50          | 11/01/29              |                      |            |                   |    |     |     |        |      |     |               | 2    |

**FRONT PAGE SUMMARY**

License No: 2073  
 Well Name: PAVA ET AL CAMELION 2H 01 HZ  
 Operator: PAVANANT RESOURCES LTD  
 Operator's A/E: BLANSTON  
 Operator's Representative: BLANSTON

Your Sheet Serial Number: M444\_2011010\_1A  
 Surface Location: 60 02 20 40N 117 20 06 W/E  
 Vendor Software Version: 2011  
 From: 20110100  
 To: 20110120 23 45  
 Log Type: LAT/LOG  
 Unique Well ID: 302H-03-00-10-117300  
 Rig No: 24  
 Well Type: HORZ  
 Send Data Time: 20110120 23 45  
 Rig Release Date Time: 20110120 23 45

**DAILY CHECKS**

|                      |                      |               |              |               |             |             |                    |                |                   |            |                |                  |               |              |              |               |             |             |                |                |                |                |                |                |
|----------------------|----------------------|---------------|--------------|---------------|-------------|-------------|--------------------|----------------|-------------------|------------|----------------|------------------|---------------|--------------|--------------|---------------|-------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1) Tool Joint Torque | 2) Wellhead Pressure | 3) Mud Weight | 4) Mud Level | 5) Mud Volume | 6) Mud Loss | 7) Mud Gain | 8) Mud Temperature | 9) Mud Density | 10) Mud Viscosity | 11) Mud pH | 12) Mud Solids | 13) Mud Filtrate | 14) Mud Shale | 15) Mud Sand | 16) Mud Clay | 17) Mud Water | 18) Mud Oil | 19) Mud Gas | 20) Mud Solids | 21) Mud Solids | 22) Mud Solids | 23) Mud Solids | 24) Mud Solids | 25) Mud Solids |
|----------------------|----------------------|---------------|--------------|---------------|-------------|-------------|--------------------|----------------|-------------------|------------|----------------|------------------|---------------|--------------|--------------|---------------|-------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|



| Code   | Rig  | Drill | Running  | Core     | Core Mud | Thru       | Rig | Reper | Out Of | Day | Weather | Rain | Wind | On | Mojo | Up | Test | Disturb | Rig | Squeeze | Fishing | Dr   | Safety | bar  | Whiting | Rig | Other | TOTAL |     |          |          |        |            |       |      |     |      |       |      |       |
|--|------|-------|----------|----------|----------|------------|-----|-------|--------|-----|---------|------|------|----|------|----|------|---------|-----|---------|---------|------|--------|------|---------|-----|-------|-------|-----|----------|----------|--------|------------|-------|------|-----|------|-------|------|-------|
| Tour 1   | 10   | 7:25  | 0:75     |          |          |            |     |       |        |     | 0:50    |      |      |    |      |    |      |         |     |         |         | 0:25 | 0:25   | 0:25 | 2:75    |     | 12:00 |       |     |          |          |        |            |       |      |     |      |       |      |       |
| Tour 2   | 10   | 11:00 |          |          |          |            |     |       |        |     | 0:25    |      |      |    |      |    |      |         |     |         |         | 0:25 | 0:25   | 0:25 | 2:75    |     | 12:00 |       |     |          |          |        |            |       |      |     |      |       |      |       |
| Tour 3   | 10   | 18:75 | 0:75     |          |          |            |     |       |        |     | 0:50    |      |      |    |      |    |      |         |     |         |         | 0:50 | 0:50   | 0:50 | 3:25    |     | 24:00 |       |     |          |          |        |            |       |      |     |      |       |      |       |
| <p><b>WEATHER</b></p> <table border="1"> <tr> <th>Temp</th> <th>Wind</th> <th>Dir</th> <th>Humidity</th> <th>Pressure</th> <th>Clouds</th> <th>Visibility</th> </tr> <tr> <td>60.00</td> <td>0.00</td> <td>000</td> <td>0.00</td> <td>30.00</td> <td>0.00</td> <td>10.00</td> </tr> </table> |      |       |          |          |          |            |     |       |        |     |         |      |      |    |      |    |      |         |     |         |         |      |        |      |         |     | Temp  | Wind  | Dir | Humidity | Pressure | Clouds | Visibility | 60.00 | 0.00 | 000 | 0.00 | 30.00 | 0.00 | 10.00 |
| Temp   | Wind | Dir   | Humidity | Pressure | Clouds   | Visibility |     |       |        |     |         |      |      |    |      |    |      |         |     |         |         |      |        |      |         |     |       |       |     |          |          |        |            |       |      |     |      |       |      |       |
| 60.00  | 0.00 | 000   | 0.00     | 30.00    | 0.00     | 10.00      |     |       |        |     |         |      |      |    |      |    |      |         |     |         |         |      |        |      |         |     |       |       |     |          |          |        |            |       |      |     |      |       |      |       |

**TOUR 1 SIGNATURE OF DRILLER**

WAGE STEVENSON

**DRILLING ASSEMBLY**

| BR Number | No   | Component     | OD  | ID    | Length |
|-----------|------|---------------|-----|-------|--------|
| 222       | 222  | BIT           | 6   | 0.27M |        |
| 4         | 4    | BIT SUB       | 128 | 60    | 0.77M  |
| 7         | 7    | DOC (5.00 IN) | 128 | 60    | 0.95M  |
| 10        | 10   | TELEHERT      | 128 | 99    | 2.89M  |
| 14.1      | 14.1 | DOC (5.00 IN) | 128 | 60    | 0.850M |
| 14.3      | 14.3 | DOC (5.00 IN) | 128 | 60    | 0.820M |
| 14.4      | 14.4 | DOC (5.00 IN) | 128 | 60    | 0.820M |

**MUD RECORD**

| Mud Type         | Water | Oil   |
|------------------|-------|-------|
| Time             | 02:00 | 06:00 |
| Density          | 1120  | 1120  |
| Funnel Viscosity | 46ml  | 44ml  |
| Fluid Loss       | 10cm  | 6cm   |
| pH               | 9     | 9     |

**DEVIATION SURVEYS**

| Time   | Depth | Deviation | Direction | Type |
|--------|-------|-----------|-----------|------|
| 11:30m | 5'    | 0"        | TELEHERT  |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Inake Density | Under Flow Density |
|----------------|-----------|---------------|--------------------|
| CENTRIFUGE     | 12        | 1120          | 1110               |

**MUD MATERIALS ADDED**

| Product  | Amount | Type |
|----------|--------|------|
| DRISPRAC | 2      | SACK |
| LOHITE   | 2      | SACK |
| SCODASH  | 2      | SACK |
| ULTRALOC | 2      | PAIL |
| CALSTIC  | 1      | SACK |

**TIME LOG**

| From  | To    | Elapsed Code | Details of Operations in Sequence & Remarks   |
|-------|-------|--------------|---|
| 00:00 | 01:15 | 1:25         | DRILL 222MM HOLE FR 1125M TO 1154M  |
| 01:15 | 01:45 | 0:50         | RIG SERVICE CHANGE WASH PIPE ROTARY TABLE DRIVE LINE CHECK ON LEVEL IN 5 L OOR AND/OR GEAR BOX DRAYMONDS FR ANNULAR 29 SEC TO CLOSE |
| 01:45 | 02:35 | 2:35         | DRILL 222MM HOLE FR 1158M TO 1193M  |
| 02:35 | 04:45 | 0:75         | WORK THROT HOLE LAY OUT 1 SENSIVE WORK THROUGH TIGHT SPOT FR 1194M TO 1195M   |
| 04:45 | 07:05 | 2:25         | REAM & CLEAN  |
| 07:05 | 07:15 | 0:25         | DRILL 222MM HOLE FR 1198M TO 1145M  |
| 07:15 | 09:15 | 2:00         | SAFETY MEETING WITH CREWS   |
| 09:15 | 11:15 | 2:00         | WORK THROT SPOTS 1158M-1154M  |
| 11:15 | 12:00 | 0:45         | DRILL THROT SPOTS 1193M-1154M LAY OUT TWO SINGLES   |

**TOUR 2 SIGNATURE OF DRILLER**

TIM BRIDGE

**DRILLING ASSEMBLY**

| BR Number | No   | Component     | OD  | ID    | Length |
|-----------|------|---------------|-----|-------|--------|
| 222       | 222  | BIT           | 6   | 0.27M |        |
| 4         | 4    | BIT SUB       | 128 | 60    | 0.77M  |
| 7         | 7    | DOC (5.00 IN) | 128 | 60    | 0.95M  |
| 10        | 10   | TELEHERT      | 128 | 99    | 2.89M  |
| 14.1      | 14.1 | DOC (5.00 IN) | 128 | 60    | 0.820M |
| 14.3      | 14.3 | DOC (5.00 IN) | 128 | 60    | 0.820M |
| 14.4      | 14.4 | DOC (5.00 IN) | 128 | 60    | 0.820M |

**MUD RECORD**

| Mud Type         | Water | Oil   |
|------------------|-------|-------|
| Time             | 14:00 | 18:00 |
| Density          | 1140  | 1140  |
| Funnel Viscosity | 52ml  | 50ml  |
| Fluid Loss       | 12cm  | 8.5cm |
| pH               | 8.0   | 8.5   |

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction | Type |
|-------|-------|-----------|-----------|------|
| 16:15 | 1160m | 4"        | TELEHERT  |      |
| 19:00 | 1090m | 4"        | TELEHERT  |      |

**SOLIDS CONTROL**

| Equipment Name    | Hours Run      | Inake Density | Under Flow Density |
|-------------------|----------------|---------------|--------------------|
| DRILL 222MM HOLE  | 1190M TO 1222M | 1015          | 21.56              |
| DRILL THROT SPOTS | 1154M-1158M    | 1015          | 19.00              |
| DRILL THROT SPOTS | 1154M-1158M    | 1015          | 22.44              |
| DRILL THROT SPOTS | 1154M-1158M    | 1015          | 24.00              |

**MUD MATERIALS ADDED**

| Product   | Amount | Type |
|-----------|--------|------|
| LOHITE    | 4      | SACK |
| DRISPRAC  | 2      | SACK |
| DRISCO    | 2      | SACK |
| GEL       | 3      | SACK |
| DETERGENT | 1      | PAIL |
| ULTRALOC  | 4      | PAIL |

**TIME LOG**

| From  | To    | Elapsed Code | Details of Operations in Sequence & Remarks  |
|-------|-------|--------------|--|
| 12:00 | 12:30 | 0:50         | CONINUE TO WORK THROUGH TIGHT SPOTS 1154M-1158M  |
| 12:30 | 19:00 | 6:50         | DRILL 222MM HOLE FR 1154M-1190M  |
| 19:00 | 19:15 | 0:25         | SAFETY MEETING WITH CREWS  |
| 19:15 | 21:56 | 4:50         | DRILL 222MM HOLE FROM 1190M TO 1222M   |
| 21:56 | 23:45 | 0:29         | RIG SERVICE CHANGE MAKEUP ROTARY TABLE DRIVE LINE CHECK ON IN FLOOR MOTOR AND GEAR BOX FUNCTION PIPE JOINTS SEC TO CLOSE |

**TOUR 3 SIGNATURE OF DRILLER**

TIM BRIDGE

**DRILLING ASSEMBLY**

| BR Number | No   | Component     | OD  | ID    | Length |
|-----------|------|---------------|-----|-------|--------|
| 222       | 222  | BIT           | 6   | 0.27M |        |
| 4         | 4    | BIT SUB       | 128 | 60    | 0.77M  |
| 7         | 7    | DOC (5.00 IN) | 128 | 60    | 0.95M  |
| 10        | 10   | TELEHERT      | 128 | 99    | 2.89M  |
| 14.1      | 14.1 | DOC (5.00 IN) | 128 | 60    | 0.820M |
| 14.3      | 14.3 | DOC (5.00 IN) | 128 | 60    | 0.820M |
| 14.4      | 14.4 | DOC (5.00 IN) | 128 | 60    | 0.820M |

**MUD RECORD**

| Mud Type         | Water | Oil   |
|------------------|-------|-------|
| Time             | 14:00 | 18:00 |
| Density          | 1140  | 1140  |
| Funnel Viscosity | 52ml  | 50ml  |
| Fluid Loss       | 12cm  | 8.5cm |
| pH               | 8.0   | 8.5   |

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction | Type |
|-------|-------|-----------|-----------|------|
| 16:15 | 1160m | 4"        | TELEHERT  |      |
| 19:00 | 1090m | 4"        | TELEHERT  |      |

**SOLIDS CONTROL**

| Equipment Name    | Hours Run      | Inake Density | Under Flow Density |
|-------------------|----------------|---------------|--------------------|
| DRILL 222MM HOLE  | 1190M TO 1222M | 1015          | 21.56              |
| DRILL THROT SPOTS | 1154M-1158M    | 1015          | 19.00              |
| DRILL THROT SPOTS | 1154M-1158M    | 1015          | 22.44              |
| DRILL THROT SPOTS | 1154M-1158M    | 1015          | 24.00              |

**MUD MATERIALS ADDED**

| Product   | Amount | Type |
|-----------|--------|------|
| LOHITE    | 4      | SACK |
| DRISPRAC  | 2      | SACK |
| DRISCO    | 2      | SACK |
| GEL       | 3      | SACK |
| DETERGENT | 1      | PAIL |
| ULTRALOC  | 4      | PAIL |

**TIME LOG**

| From  | To    | Elapsed Code | Details of Operations in Sequence & Remarks  |
|-------|-------|--------------|--|
| 12:00 | 12:30 | 0:50         | CONINUE TO WORK THROUGH TIGHT SPOTS 1154M-1158M  |
| 12:30 | 19:00 | 6:50         | DRILL 222MM HOLE FR 1154M-1190M  |
| 19:00 | 19:15 | 0:25         | SAFETY MEETING WITH CREWS  |
| 19:15 | 21:56 | 4:50         | DRILL 222MM HOLE FROM 1190M TO 1222M   |
| 21:56 | 23:45 | 0:29         | RIG SERVICE CHANGE MAKEUP ROTARY TABLE DRIVE LINE CHECK ON IN FLOOR MOTOR AND GEAR BOX FUNCTION PIPE JOINTS SEC TO CLOSE |

**TOUR 3 SIGNATURE OF DRILLER**

TIM BRIDGE

**DRILLING ASSEMBLY**

| BR Number | No   | Component     | OD  | ID    | Length |
|-----------|------|---------------|-----|-------|--------|
| 222       | 222  | BIT           | 6   | 0.27M |        |
| 4         | 4    | BIT SUB       | 128 | 60    | 0.77M  |
| 7         | 7    | DOC (5.00 IN) | 128 | 60    | 0.95M  |
| 10        | 10   | TELEHERT      | 128 | 99    | 2.89M  |
| 14.1      | 14.1 | DOC (5.00 IN) | 128 | 60    | 0.820M |
| 14.3      | 14.3 | DOC (5.00 IN) | 128 | 60    | 0.820M |
| 14.4      | 14.4 | DOC (5.00 IN) | 128 | 60    | 0.820M |

**MUD RECORD**

| Mud Type         | Water | Oil   |
|------------------|-------|-------|
| Time             | 02:00 | 06:00 |
| Density          | 1120  | 1120  |
| Funnel Viscosity | 46ml  | 44ml  |
| Fluid Loss       | 10cm  | 6cm   |
| pH               | 9     | 9     |

**DEVIATION SURVEYS**

| Time   | Depth | Deviation | Direction | Type |
|--------|-------|-----------|-----------|------|
| 11:30m | 5'    | 0"        | TELEHERT  |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Inake Density | Under Flow Density |
|----------------|-----------|---------------|--------------------|
| CENTRIFUGE     | 12        | 1120          | 1110               |

**MUD MATERIALS ADDED**

| Product  | Amount | Type |
|----------|--------|------|
| DRISPRAC | 2      | SACK |
| LOHITE   | 2      | SACK |
| SCODASH  | 2      | SACK |
| ULTRALOC | 2      | PAIL |
| CALSTIC  | 1      | SACK |

**TIME LOG**

| From  | To    | Elapsed Code | Details of Operations in Sequence & Remarks   |
|-------|-------|--------------|---|
| 00:00 | 01:15 | 1:25         | DRILL 222MM HOLE FR 1125M TO 1154M  |
| 01:15 | 01:45 | 0:50         | RIG SERVICE CHANGE WASH PIPE ROTARY TABLE DRIVE LINE CHECK ON LEVEL IN 5 L OOR AND/OR GEAR BOX DRAYMONDS FR ANNULAR 29 SEC TO CLOSE |
| 01:45 | 02:35 | 2:35         | DRILL 222MM HOLE FR 1158M TO 1193M  |
| 02:35 | 04:45 | 0:75         | WORK THROT HOLE LAY OUT 1 SENSIVE WORK THROUGH TIGHT SPOT FR 1194M TO 1195M   |
| 04:45 | 07:05 | 2:25         | REAM & CLEAN  |
| 07:05 | 07:15 | 0:25         | DRILL 222MM HOLE FR 1198M TO 1145M  |
| 07:15 | 09:15 | 2:00         | SAFETY MEETING WITH CREWS   |
| 09:15 | 11:15 | 2:00         | WORK THROT SPOTS 1158M-1154M  |
| 11:15 | 12:00 | 0:45         | DRILL THROT SPOTS 1193M-1154M LAY OUT TWO SINGLES   |

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424 20110130 1A Vendor Software Version Pason Year 2011 Month 01 Day 30

License No 2073 Well Name PARA ET AL CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30E Prov NT Loc Type LAT-LONG Unique Well Id 302/H-03/6010-11730/0

Operator  
PARAMOUNT RESOURCES LTD.  
Operator's AFE  
10N110009  
Signature of Operator Representative  
JOSH BLINSTON

Contractor  
NABORS DRILLING  
Contractor's Job No  
C6473  
Signature of Contractor's Rig Manager  
MICHAEL NUGENT

Rig No 24 Well Type HORIZ Re-Entry   
Spud Date Time 2011/01/20 23:45  
Rig Release Date Time



Pason

| DRILLING ASSEMBLY TOUR 1 |               |         |       |         | DRILLING ASSEMBLY TOUR 2 |               |         |       |         | DRILLING ASSEMBLY TOUR |            |         |    |        |
|--------------------------|---------------|---------|-------|---------|--------------------------|---------------|---------|-------|---------|------------------------|------------|---------|----|--------|
| No                       | Component     | OD      | ID    | Length  | No                       | Component     | OD      | ID    | Length  | No                     | Component  | OD      | ID | Length |
| 1                        | BIT           | 222.00  | 0.00  | 0.27    | 1                        | BIT           | 222.00  | 0.00  | 0.27    |                        |            |         |    |        |
| 1                        | BIT SUB       | 128.00  | 60.00 | 0.77    | 1                        | BIT SUB       | 128.00  | 60.00 | 0.77    |                        |            |         |    |        |
| 1                        | DC (5.00 IN)  | 128.00  | 60.00 | 9.58    | 1                        | DC (5.00 IN)  | 128.00  | 60.00 | 9.58    |                        |            |         |    |        |
| 1                        | TELEDRIFT     | 125.00  | 59.00 | 2.60    | 1                        | TELEDRIFT     | 125.00  | 59.00 | 2.60    |                        |            |         |    |        |
| 9                        | DC (5.00 IN)  | 126.00  | 60.00 | 86.35   | 9                        | DC (5.00 IN)  | 126.00  | 60.00 | 86.35   |                        |            |         |    |        |
| 1                        | JARS-HYD/MECH | 125.00  | 59.00 | 5.32    | 1                        | JARS-HYD/MECH | 125.00  | 59.00 | 5.32    |                        |            |         |    |        |
| 5                        | DC (5.00 IN)  | 126     | 60    | 48.02   | 5                        | DC (5.00 IN)  | 126     | 60    | 48.02   |                        |            |         |    |        |
| 9                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 84.41   | 9                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 84.41   |                        |            |         |    |        |
| 46                       | Drill Pipe    | Stands  |       | 876.48  | 51                       | Drill Pipe    | Stands  |       | 0.00    |                        | Drill Pipe | Stands  |    |        |
| 0                        | Drill Pipe    | Singles |       | 0.00    | 1                        | Drill Pipe    | Singles |       | 981.40  |                        | Drill Pipe | Singles |    |        |
| Kelly Down               |               |         |       | 7.20    | Kelly Down               |               |         |       | 3.28    | Kelly Down             |            |         |    |        |
| Total                    |               |         |       | 1121.00 | Total                    |               |         |       | 1222.00 | Total                  |            |         |    |        |
| Weight of DC             |               |         |       | 24.00   | Weight of DC             |               |         |       | 24.00   | Weight of DC           |            |         |    |        |
| Weight of String         |               |         |       | 44.00   | Weight of String         |               |         |       | 44.00   | Weight of String       |            |         |    |        |

| SPECIAL EVENTS |            |  |       |       |
|----------------|------------|--|-------|-------|
| Tour No.       | Event No.  | Description  | Time  | Depth |
| 1              | JSA REVIEW | A-23 STARTING ENGINES  | 01:00 |       |
| 1              | JSA REVIEW | B-64 WET CONNECTIONS   | 01:00 |       |
| 2              | JSA REVIEW | A-37 WORKING IN COLD AND WARM WEATHER, A-26 STORAGE OF SLINGS AND CHAINS | 12:00 |       |
|                |            |  |       |       |
|                |            |  |       |       |

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110130\_1A Vendor Software Version Pason Year 2011 Month 01 Day 30



|  |  |  |                    |                                    |   |
|--|--|--|--------------------|------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/01/20 23:45 | Re-Entry<br><input type="checkbox"/>    |



Pason

**TOUR** 1      **MUD TYPE** GEL      **WATER** x      **OIL**      **OTHER**

|                    | Time                 | MUD TYPE  |           |       | WATER |  |  | OIL |  |  | OTHER |  |  |
|--------------------|----------------------|-----------|-----------|-------|-------|--|--|-----|--|--|-------|--|--|
|                    |                      | 02:00     | 06:00     | 10:00 |       |  |  |     |  |  |       |  |  |
| Density            | 1120kg/m3            | 1120kg/m3 | 1140kg/m3 |       |       |  |  |     |  |  |       |  |  |
| Funnel Viscosity   | 46s/l                | 44s/l     | 54s/l     |       |       |  |  |     |  |  |       |  |  |
| Fluid Loss         | 10cm3                | 8cm3      | 11cm3     |       |       |  |  |     |  |  |       |  |  |
| Fluid pH           | 9                    | 9         | 9.0       |       |       |  |  |     |  |  |       |  |  |
| Location of Sample |                      | SHAKER    |           |       |       |  |  |     |  |  |       |  |  |
| Depth              |                      |           |           |       |       |  |  |     |  |  |       |  |  |
| PVT                |                      |           |           |       |       |  |  |     |  |  |       |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |       |       |  |  |     |  |  |       |  |  |
|                    | Value                |           |           |       |       |  |  |     |  |  |       |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |       |       |  |  |     |  |  |       |  |  |
|                    | Value                |           |           |       |       |  |  |     |  |  |       |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |       |       |  |  |     |  |  |       |  |  |
|                    | Value                |           |           |       |       |  |  |     |  |  |       |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |       |       |  |  |     |  |  |       |  |  |
|                    | Value                |           |           |       |       |  |  |     |  |  |       |  |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110130\_1A Vendor Software Version Pason Year 2011 Month 01 Day 30



|  |  |  |                                    |                                      |   |
|--|--|--|------------------------------------|--------------------------------------|---|
| License No<br>2073   | Well Name<br>PARA ET AL CAMERON 2H-03 HZ   | Surface Location<br>60:02:20.40N/117:30:06.30E | Prov<br>NT                         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302/H-03/6010-11730/0 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |   |
|  |  |  | Spud Date Time<br>2011/01/20 23:45 | Rig Release Date Time                |   |



Pason

| TOUR   |                      | MUD TYPE  |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-------|--|-----|--|-------|--|
| 2      |                      | POLYMER   |           | x     |  |     |  |       |  |
| Time   | 14:00                | 18:00     |           |       |  |     |  |       |  |
|        | Density              | 1140kg/m3 | 1140kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 52s/l     | 50s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 12cm3     | 8.5cm3    |       |  |     |  |       |  |
|        | Fluid pH             | 8.0       | 8.5       |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    |       |  |     |  |       |  |
| Depth  |                      |           |           |       |  |     |  |       |  |
| PVT    |                      |           |           |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**



**FRONT PAGE SUMMARY**

License No: WA1 Name: PAPA ET AL CAMERON 24-03-14Z  
 2073  
 Operator: PAPA/MOUNT RESOURCES LTD  
 100110009  
 Operator's AFE  
 Signature of Operator Representative: MICHAEL NIGBANT

Four Sheet Serial Number: WA624\_20110131\_1A  
 Surface Location: 60 02 20 40N17 20 E03 30E

Vendor Software Version: Pason  
 Prov: LAVI-LONG  
 Loc Type: WINGA W&B ID  
 24  
 HORZ  
 Sig No: WINGA W&B ID  
 201102202345  
 201102202345

Year: 2011  
 Month: 01  
 Day: 31

**DAILY CHECKS**

- 1) Daily Pre-Run Inspection (Using Check List)
- 2) HSE Sign Board if Required
- 3) HSE Lockout & Stop Diagram Valid
- 4) HSE Lockout & Stop Diagram Valid
- 5) HSE Lockout & Stop Diagram Valid
- 6) HSE Lockout & Stop Diagram Valid
- 7) Weekly Hazard Logs - New Lines & Deepener Lines
- 8) HSE Lockout & Stop Diagram Valid
- 9) HSE Lockout & Stop Diagram Valid
- 10) HSE Lockout & Stop Diagram Valid



Pason  
 RUEL @ 08300 HOURS

| CODE   | 1  | 2  | 3    | 4         | 5               | 6    | 7     | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | TOTAL |      |      |      |      |
|--------|----|----|------|-----------|-----------------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
|        |    |    |      |           |                 |      |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | DR    | W    |      |      |      |
| Hour 1 | 10 | 10 | 3:25 | Remaining | Cored Mud & CFC | 7:25 | 7:25  | 0:25 | 5:75 | 5:75 | 0:25 | 5:50 | 5:50 | 0:50 | 0:50 | 0:50 | 0:50 | 0:50 | 0:50 | 0:50 | 0:50 | 0:50 | 0:50 | 0:50 | 0:50 | 0:50  | 0:50 | 0:50 | 0:50 | 0:50 |
| Hour 2 |    |    |      |           |                 |      |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |
| Hour 3 |    |    |      |           |                 |      |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |
| Total  |    |    | 3:25 |           |                 | 0:75 | 13:50 | 0:25 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |

|      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WIND | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

**TOUR 1 SIGNATURE OF DRILLER**

104 BRODIE

| BITS               |            | DRILLING ASSEMBLY |           | MUD RECORD |        | DEVIATION SURVEYS  |        | SOLIDS CONTROL |     | MUD MATERIALS ADDED |       | TIME LOG  |           |  |        |      |       |       |         |      |   |  |
|--------------------|------------|-------------------|-----------|------------|--------|--------------------|--------|----------------|-----|---------------------|-------|-----------|-----------|--|--------|------|-------|-------|---------|------|---|--|
| BR Number          | 3          | No                | Component | OO ID      | Length | Mud Type           | Water  | LI             | Oil | Time                | Depth | Deviation | Direction | Type   | Amount | Type | Time  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks |  |
| Size               | 4          | BIT               | 222       | 0          | 0.27m  | Time               | 02:00  |                |     | 00:00               | 03:15 | 3:25      |           | DRILL 22MM HOLE FROM 1222M TO 1240M                      |        |      | 00:00 | 03:15 | 3:25    |      |   |  |
| LACC Code          | HEED       | BIT SUB           | 126       | 06         | 0.77m  | Density            | 1130   |                |     | 03:15               | 04:00 | 0:75      |           | CIRCULATE HOLE CLEAN                                     |        |      | 04:00 | 07:00 | 3:00    |      |   |  |
| Manufacturer       | HEED       | BIT (6.00 IN)     | 126       | 06         | 0.58m  | Funnel Viscosity   | 50ml   |                |     | 04:00               | 07:00 | 0:75      |           | POOH TO PICK UP DIR TOOLS, LAV DOWN 42 JOINTS DP AND DCS |        |      | 07:00 | 07:14 | 0:25H   |      |   |  |
| Type               | HEED       | HEED              | 126       | 06         | 0.63m  | Funnel Loss        | 70ml   |                |     | 07:14               | 08:14 | 2:20H     |           | SAFETY MEETING WITH BOTH CREWS                           |        |      | 07:14 | 08:14 | 2:20H   |      |   |  |
| Serial No          | 14.3       | HEED              | 126       | 06         | 0.63m  | Location of Sample | SWAKER |                |     | 08:14               | 12:00 | 2:29H     |           | SAFETY MEETING WITH BOTH CREWS                           |        |      | 08:14 | 12:00 | 2:29H   |      |   |  |
| JMS                | 14.3       | HEED              | 126       | 06         | 0.63m  | Depth              | 1700m  |                |     | 12:00               | 12:00 | 0:00H     |           | DOWN 100 FT  |        |      | 12:00 | 12:00 | 0:00H   |      |   |  |
| Depth Out (m)      | 1240       | HEED              | 126       | 06         | 0.47m  | PT                 | 60ml   |                |     |                     |       |           |           |  |        |      |       |       |         |      |   |  |
| Depth In (m)       | 1114       | HEED              | 126       | 06         | 0.47m  | CIRCULATION        |        |                |     |                     |       |           |           |  |        |      |       |       |         |      |   |  |
| Total Drilled (m)  | 1114       | HEED              | 126       | 06         | 0.47m  | STROKE             | 152    |                |     |                     |       |           |           |  |        |      |       |       |         |      |   |  |
| his Run Today      | 3:25       | HEED              | 126       | 06         | 0.47m  | Pressure           | 100    |                |     |                     |       |           |           |  |        |      |       |       |         |      |   |  |
| Comulative his Run | 23:25      | HEED              | 126       | 06         | 0.47m  | Pressure           | 100    |                |     |                     |       |           |           |  |        |      |       |       |         |      |   |  |
| Entry Date         | 23/10/2011 | HEED              | 126       | 06         | 0.47m  | Pressure           | 100    |                |     |                     |       |           |           |  |        |      |       |       |         |      |   |  |

**TOUR 2 SIGNATURE OF DRILLER**

WADE STEVENSON

| BITS               |            | DRILLING ASSEMBLY |           | MUD RECORD |        | DEVIATION SURVEYS  |        | SOLIDS CONTROL |     | MUD MATERIALS ADDED |       | TIME LOG  |           |   |        |      |       |       |         |      |   |  |
|--------------------|------------|-------------------|-----------|------------|--------|--------------------|--------|----------------|-----|---------------------|-------|-----------|-----------|---|--------|------|-------|-------|---------|------|---|--|
| BR Number          | 4          | No                | Component | OO ID      | Length | Mud Type           | Water  | LI             | Oil | Time                | Depth | Deviation | Direction | Type  | Amount | Type | Time  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks |  |
| Size               | 5          | BIT               | 222       | 0          | 0.25m  | Time               | 02:00  |                |     | 00:00               | 12:15 | 0:25H     |           | END SERVICE F/T BLVD PUMPS & SCS CL           |        |      | 12:00 | 12:15 | 0:25H   |      |   |  |
| LACC Code          | HEED       | BIT SUB           | 102       | 04         | 0.19m  | Density            | 1130   |                |     | 12:15               | 12:30 | 0:25H     |           | PRE-DR SAFETY MEETING WITH OBSERVATION, HANDS |        |      | 12:30 | 12:50 | 0:40H   |      |   |  |
| Manufacturer       | HEED       | BIT SUB           | 102       | 04         | 0.19m  | Funnel Viscosity   | 50ml   |                |     | 12:30               | 12:50 | 0:40H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 12:50 | 13:00 | 0:50H   |      |   |  |
| Type               | HEED       | BIT SUB           | 102       | 04         | 0.19m  | Funnel Loss        | 70ml   |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Serial No          | 14.3       | HEED              | 102       | 04         | 0.19m  | Location of Sample | SWAKER |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| JMS                | 14.3       | HEED              | 102       | 04         | 0.19m  | Depth              | 1700m  |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Depth Out (m)      | 1240       | HEED              | 102       | 04         | 0.19m  | PT                 | 60ml   |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Depth In (m)       | 1240       | HEED              | 102       | 04         | 0.19m  | CIRCULATION        |        |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Total Drilled (m)  | 1240       | HEED              | 102       | 04         | 0.19m  | STROKE             | 152    |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| his Run Today      | 0:00       | HEED              | 102       | 04         | 0.19m  | Pressure           | 100    |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Comulative his Run | 0:00       | HEED              | 102       | 04         | 0.19m  | Pressure           | 100    |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Entry Date         | 23/10/2011 | HEED              | 102       | 04         | 0.19m  | Pressure           | 100    |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |

**TOUR 3 SIGNATURE OF DRILLER**

START TIME 12:00 END TIME 24:00

| BITS               |            | DRILLING ASSEMBLY |           | MUD RECORD |        | DEVIATION SURVEYS  |        | SOLIDS CONTROL |     | MUD MATERIALS ADDED |       | TIME LOG  |           |   |        |      |       |       |         |      |   |  |
|--------------------|------------|-------------------|-----------|------------|--------|--------------------|--------|----------------|-----|---------------------|-------|-----------|-----------|---|--------|------|-------|-------|---------|------|---|--|
| BR Number          | 5          | No                | Component | OO ID      | Length | Mud Type           | Water  | LI             | Oil | Time                | Depth | Deviation | Direction | Type  | Amount | Type | Time  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks |  |
| Size               | 5          | BIT               | 222       | 0          | 0.25m  | Time               | 02:00  |                |     | 00:00               | 12:15 | 0:25H     |           | END SERVICE F/T BLVD PUMPS & SCS CL           |        |      | 12:00 | 12:15 | 0:25H   |      |   |  |
| LACC Code          | HEED       | BIT SUB           | 102       | 04         | 0.19m  | Density            | 1130   |                |     | 12:15               | 12:30 | 0:25H     |           | PRE-DR SAFETY MEETING WITH OBSERVATION, HANDS |        |      | 12:30 | 12:50 | 0:40H   |      |   |  |
| Manufacturer       | HEED       | BIT SUB           | 102       | 04         | 0.19m  | Funnel Viscosity   | 50ml   |                |     | 12:30               | 12:50 | 0:40H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 12:50 | 13:00 | 0:50H   |      |   |  |
| Type               | HEED       | BIT SUB           | 102       | 04         | 0.19m  | Funnel Loss        | 70ml   |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Serial No          | 14.3       | HEED              | 102       | 04         | 0.19m  | Location of Sample | SWAKER |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| JMS                | 14.3       | HEED              | 102       | 04         | 0.19m  | Depth              | 1700m  |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Depth Out (m)      | 1240       | HEED              | 102       | 04         | 0.19m  | PT                 | 60ml   |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Depth In (m)       | 1240       | HEED              | 102       | 04         | 0.19m  | CIRCULATION        |        |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Total Drilled (m)  | 1240       | HEED              | 102       | 04         | 0.19m  | STROKE             | 152    |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| his Run Today      | 0:00       | HEED              | 102       | 04         | 0.19m  | Pressure           | 100    |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Comulative his Run | 0:00       | HEED              | 102       | 04         | 0.19m  | Pressure           | 100    |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |
| Entry Date         | 23/10/2011 | HEED              | 102       | 04         | 0.19m  | Pressure           | 100    |                |     | 13:00               | 13:00 | 0:00H     |           | PRICK UP DIRECTIONAL TOOLS                    |        |      | 13:00 | 13:00 | 0:00H   |      |   |  |

FRONT PAGE SUMMARY

License No 2073 Well Name PANA ET AL CAMELION 24-00 HZ
Operator PANA/MOINT RESOURCES LTD
Operator's A/E BLANSTON

Your Sheet Serial Number 3464 2011001 18
Surface Location 60 07 20 40V17 20 00 20E
Vendor Software Version - 2011

DAILY CHECKS
1) Operator presence (working during Check In)
2) Operator presence (working during Check Out)
3) H2S Spgs tested & Rechecked



Table with 13 columns: RIG ID, D/B, Remaining, Coaming & CTR, Tires, Service, Rig, Repair, Cut Off, Dow, Wellhead, Rain Gun, Wait on, Hoop Up, Test, Disturb, Plug, Squeeze, Fishing, Dr, Safety, Tar, Waiting, Rig, Other, TOTAL. Includes rows for Hour 1, Hour 2, Hour 3, and Total.

Table with 13 columns: RIG ID, D/B, Remaining, Coaming & CTR, Tires, Service, Rig, Repair, Cut Off, Dow, Wellhead, Rain Gun, Wait on, Hoop Up, Test, Disturb, Plug, Squeeze, Fishing, Dr, Safety, Tar, Waiting, Rig, Other, TOTAL. Includes rows for Hour 1, Hour 2, Hour 3, and Total.

Table with 13 columns: RIG ID, D/B, Remaining, Coaming & CTR, Tires, Service, Rig, Repair, Cut Off, Dow, Wellhead, Rain Gun, Wait on, Hoop Up, Test, Disturb, Plug, Squeeze, Fishing, Dr, Safety, Tar, Waiting, Rig, Other, TOTAL. Includes rows for Hour 1, Hour 2, Hour 3, and Total.

WEATHER
Fuel @ 08:00 HOURS
Fuel @ 15:00 HOURS
Fuel @ 22:00 HOURS

TOUR 1 SIGNATURE OF DRILLER

WAGS STEVENSON

TOUR 1 SIGNATURE OF DRILLER

WAGS STEVENSON

TOUR 1 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for BR Number, Size, LADC Code, Manufacturer, Type, etc.

TOUR 1 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for BR Number, Size, LADC Code, Manufacturer, Type, etc.

TOUR 1 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for BR Number, Size, LADC Code, Manufacturer, Type, etc.

TOUR 2 SIGNATURE OF DRILLER

TIM BRODIE

TOUR 2 SIGNATURE OF DRILLER

TIM BRODIE

TOUR 2 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for BR Number, Size, LADC Code, Manufacturer, Type, etc.

TOUR 2 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for BR Number, Size, LADC Code, Manufacturer, Type, etc.

TOUR 2 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for BR Number, Size, LADC Code, Manufacturer, Type, etc.

TOUR 3 SIGNATURE OF DRILLER

[Signature]

TOUR 3 SIGNATURE OF DRILLER

[Signature]

TOUR 3 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for BR Number, Size, LADC Code, Manufacturer, Type, etc.

TOUR 3 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for BR Number, Size, LADC Code, Manufacturer, Type, etc.

TOUR 3 DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY. Includes fields for BR Number, Size, LADC Code, Manufacturer, Type, etc.



**FRONT PAGE SUMMARY**

License No: 2073  
 Operator: PAPA/MOUNT RESOURCES LTD  
 Operator's A/E: BLANSTON  
 Operator Representative: MICHAEL MCKENZIE

Four Sheet Serial Number: 04494\_20110002\_1A  
 Surface Location: 60 02 20 40V117 20 00 30E  
 Vendor Software Version: 2011

Job No: 2011012702345  
 Job Name: HOLECZ  
 Job Type: Spud Date Time  
 Job Release Date Time

Weather: 15.00, 0.00, 2.00, 12.00, 24.00  
 Fuel @ 08:00 HOURS: 3865.00kWh

| CODE         | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | TOTAL |      |      |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|
| Hours        | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45 | 7:45  | 7:45 |      |
| Drilling     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |
| Deviation    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |
| Safety       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |
| Other        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |
| <b>TOTAL</b> | 4:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74 | 7:74  | 7:74 | 7:74 |

**TOUR 1 SIGNATURE OF DRILLER** WADIE STEVENSON

**DRILLING ASSEMBLY**

BIT: No. 222, Component: 00 ID, Length: 0.25m

Size: 51, Manufacturer: MOTOR L.S., Reason Pulled: 13.00T S.B.

Serial No: J65, Type: WOODPECKER, Weight of DC: 154.64, 1.10m

Depth Out (m): 1240, Depth In (m): 1240, Total Drilled (m): 50, His Run Today: 564-HWOP(4.0M), Cumulative His Run: 10.55

**HOLE CONDITION**

Remarks: 36 Drill Pipe, 1 Drill Pipe, Kelly Down, Total: 133.02m, 1333.11m

**MUD RECORD**

Mud Type: Water, Density: 1120, Funnel Viscosity: 40ml, Fluid Loss: 6.50cm, PH: 8.6, Location of Sample: STAINERS SHOWER

**REDUCED PUMP SPEED**

Pump No: 1, Pressure: 3250, Spobs/min: 50, Depth: 1247

**DEVIATION SURVEYS**

Boiler #1: Hours Run: 12, pH: 14, Stack Temp: 300

**TIME LOG**

From 10:00 to 12:00, Code: 2-002G, Details: W/O PERSON COMPUTER, DRILL 222 MM HOLE FROM 1286M TO 1315M

**SAFETY**

Safety Topic: MENT, M/CP

**TOUR 2 SIGNATURE OF DRILLER** TIM BRIDGE

**DRILLING ASSEMBLY**

BIT: No. 222, Component: 00 ID, Length: 0.25m

Size: 51, Manufacturer: MOTOR L.S., Reason Pulled: 7.00T S.B.

Serial No: J65, Type: WOODPECKER, Weight of DC: 154.64, 1.10m

Depth Out (m): 1240, Depth In (m): 1240, Total Drilled (m): 50, His Run Today: 660-HWOP(4.0M), Cumulative His Run: 10.55

**HOLE CONDITION**

Remarks: 36 Drill Pipe, 1 Drill Pipe, Kelly Down, Total: 133.02m, 1333.11m

**MUD RECORD**

Mud Type: Water, Density: 1120, Funnel Viscosity: 40ml, Fluid Loss: 6.50cm, PH: 8.6, Location of Sample: STAINERS SHOWER

**REDUCED PUMP SPEED**

Pump No: 1, Pressure: 3250, Spobs/min: 50, Depth: 1247

**DEVIATION SURVEYS**

Boiler #1: Hours Run: 12, pH: 9.4, Stack Temp: 300

**TIME LOG**

From 10:00 to 12:00, Code: 7-00F, Details: CONDUCTION MUD & CIRCULATE PREPARE RIG FOR JACKSON/SPODING WORK PRE 10:00, 10:15, 0:25H, SAFETY MEETING WITH BOTH CREWS, TRAVELERS FROM MUD TANKS TO 400 BBL, PREP TANKS TO SKID, ENG OUT PASON AND ALL REMAINING GROUND WORKING, SAND DUCK HOUSE, CENTER AND LEVEL BOP'S JACK RIG

**SAFETY**

Safety Topic: MENT, M/CP

**TOUR 3 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**

BIT: No. 222, Component: 00 ID, Length: 0.25m

Size: 51, Manufacturer: MOTOR L.S., Reason Pulled: 7.00T S.B.

Serial No: J65, Type: WOODPECKER, Weight of DC: 154.64, 1.10m

Depth Out (m): 1240, Depth In (m): 1240, Total Drilled (m): 50, His Run Today: 660-HWOP(4.0M), Cumulative His Run: 10.55

**HOLE CONDITION**

Remarks: 36 Drill Pipe, 1 Drill Pipe, Kelly Down, Total: 133.02m, 1333.11m

**MUD RECORD**

Mud Type: Water, Density: 1120, Funnel Viscosity: 40ml, Fluid Loss: 6.50cm, PH: 8.6, Location of Sample: STAINERS SHOWER

**REDUCED PUMP SPEED**

Pump No: 1, Pressure: 3250, Spobs/min: 50, Depth: 1247

**DEVIATION SURVEYS**

Boiler #1: Hours Run: 12, pH: 9.4, Stack Temp: 300

**TIME LOG**

From 10:00 to 12:00, Code: 7-00F, Details: CONDUCTION MUD & CIRCULATE PREPARE RIG FOR JACKSON/SPODING WORK PRE 10:00, 10:15, 0:25H, SAFETY MEETING WITH BOTH CREWS, TRAVELERS FROM MUD TANKS TO 400 BBL, PREP TANKS TO SKID, ENG OUT PASON AND ALL REMAINING GROUND WORKING, SAND DUCK HOUSE, CENTER AND LEVEL BOP'S JACK RIG

**SAFETY**

Safety Topic: MENT, M/CP

**REMARKS**

1.1 PIPE TANK AND LUMBER TANK CENTER CHECKED WATER/OIL AND ISO VALVE ASSEMBLY VISUALLY INSPECT

2. CHECK RIG SAFETY INSPECTOR CHECKLIST (SEE/WORKSHEET)

3. MUD TANKS - MUD TANKS FULL

4. MUD TANKS - MUD TANKS FULL

5. MUD TANKS - MUD TANKS FULL

6. MUD TANKS - MUD TANKS FULL

7. MUD TANKS - MUD TANKS FULL

8. MUD TANKS - MUD TANKS FULL

9. MUD TANKS - MUD TANKS FULL

10. MUD TANKS - MUD TANKS FULL



FRONT PAGE SUMMARY

License No 2073 PAVA ET AL CAMERON 2H-03 1Z
Operator PAVAMOUNT RESOURCES LTD.
Operator's A/E BLANSTON

Four Sheet Serial Number 04424\_20710203\_1A
Surface Location 60 07 20 40W 17 30 06 30E
Vendor Software Version 2011 02

DAILY CHECKS table with columns for Item No, Description, Status, and Date. Includes items like 1) Daily Time Record Inspection, 2) HSE Sign Board Inspection, etc.

PASON logo and PAVAMOUNT RESOURCES LTD. information.

OPERATIONAL DATA table with columns for CODE, Rig No, Drill, Reaming, Coring, Mud Mud, Tires, Rig, Repair, Cut Off, Dew, Wetness, Fuel Cog, Wait On, Hoop Up, Dismiss, Plug, Spouse, Felling, Dr, Stry, Wait, Rig, Other, TOTAL. Includes a WEATHER section at the bottom right.

TOUR 1 SIGNATURE OF DRILLER

WAGE STEVENSON

START TIME 00:00

END TIME 12:00

DRILLING ASSEMBLY

Table with columns: No, Component, O/I, ID, Length. Lists components like BIT, MOTOR S, 1/2" OMT SUB, etc.

MUD RECORD

Table with columns: Time, Mud Type, Water, Oil. Includes Density, Funnel Viscosity, Fluid Loss, pH, and CIRCULATION data.

DEVIATION SURVEYS

Table with columns: Time, Depth, Deviation, Direction, Type. Includes SOLIDS CONTROL and MUD MATERIALS ADDED sections.

TIME LOG

Table with columns: From, To,Elapsed, Code, Details of Operations in Sequence & Remarks. Includes a SAFETY section.

TOUR 2 SIGNATURE OF DRILLER

TIM BRODIE

START TIME 12:00

END TIME 24:00

DRILLING ASSEMBLY

Table with columns: No, Component, O/I, ID, Length. Lists components like BIT, MOTOR S, 1/2" OMT SUB, etc.

MUD RECORD

Table with columns: Time, Mud Type, Water, Oil. Includes Density, Funnel Viscosity, Fluid Loss, pH, and CIRCULATION data.

DEVIATION SURVEYS

Table with columns: Time, Depth, Deviation, Direction, Type. Includes SOLIDS CONTROL and MUD MATERIALS ADDED sections.

TIME LOG

Table with columns: From, To,Elapsed, Code, Details of Operations in Sequence & Remarks. Includes a SAFETY section.

TOUR 3 SIGNATURE OF DRILLER

Signature of Driller

DRILLING ASSEMBLY

Table with columns: No, Component, O/I, ID, Length. Lists components like BIT, MOTOR S, 1/2" OMT SUB, etc.

MUD RECORD

Table with columns: Time, Mud Type, Water, Oil. Includes Density, Funnel Viscosity, Fluid Loss, pH, and CIRCULATION data.

DEVIATION SURVEYS

Table with columns: Time, Depth, Deviation, Direction, Type. Includes SOLIDS CONTROL and MUD MATERIALS ADDED sections.

TIME LOG

Table with columns: From, To,Elapsed, Code, Details of Operations in Sequence & Remarks. Includes a SAFETY section.

TOUR 3 SIGNATURE OF DRILLER section containing: DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, TIME LOG, SOLIDS CONTROL, MUD MATERIALS ADDED, MUD RECORD, DEVIATION SURVEYS, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.









**FRONT PAGE SUMMARY**

License No 2073 Well Name PAVA ET CAMERON 24-03  
 Operator PAVAMOUNT RESOURCES LTD.  
 Operator's A/E 10N110009  
 Contractor MAJOR'S DRILLING  
 Contractor's Job No CA73  
 Signature of Contractor's Rig Manager MICHAEL MCGENT

Four Sheet Serial Number 046424\_20110210\_24  
 Surface Location 60 02 20 40N17 20 08 30W  
 Vendor Software Version Paveon  
 Year 2011  
 Month 02  
 Day 10

**DAILY CHECKS**  
 1) Daily Well Record Inspection (Using Check List)  
 2) Daily Wellhead Inspection (Using Check List)  
 3) HCS Signs Present & Required  
 4) Well License & Stock Diagrams Valid  
 5) Wellhead Diagrams Valid  
 6) BOP Data Reviewed  
 7) Wellhead Records - (New Lines & Deeper Lines)  
 8) Wellhead Diagrams Valid  
 9) Wellhead Diagrams Valid  
 10) Wellhead Diagrams Valid  
 11) Wellhead Diagrams Valid  
 12) Wellhead Diagrams Valid  
 13) Wellhead Diagrams Valid  
 14) Wellhead Diagrams Valid  
 15) Wellhead Diagrams Valid  
 16) Wellhead Diagrams Valid  
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 24) Wellhead Diagrams Valid  
 25) Wellhead Diagrams Valid  
 26) Wellhead Diagrams Valid  
 27) Wellhead Diagrams Valid  
 28) Wellhead Diagrams Valid  
 29) Wellhead Diagrams Valid  
 30) Wellhead Diagrams Valid



| CODE   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |  |
|--------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| Hour 1 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Hour 2 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Hour 3 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Total  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

**FUEL @ 08:00 HOURS**

|              |      |          |             |
|--------------|------|----------|-------------|
| Item         | Rate | Quantity | Amount      |
| Diesel       | 0.00 | 0.00     | 0.00        |
| Gasoline     | 0.00 | 0.00     | 0.00        |
| Other        | 0.00 | 0.00     | 0.00        |
| <b>TOTAL</b> |      |          | <b>0.00</b> |

**TOUR 1 SIGNATURE OF DRILLER** T.M. BRIDGE

| BITS                     |    | DRILLING ASSEMBLY        |       | MUD RECORD        |          | DEVIATION SURVEYS        |            | TIME LOG        |        |           |           |             |      |    |         |      |   |
|--------------------------|----|--------------------------|-------|-------------------|----------|--------------------------|------------|-----------------|--------|-----------|-----------|-------------|------|----|---------|------|---|
| BR Number                | No | Component                | OO ID | Length            | Mad Type | Water                    | Oil        | Time            | Depth  | Deviation | Direction | Type        | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| LUC Code                 |    |                          |       |                   | Density  | Funnel Viscosity         | Fluid Loss | Equipment       | Hours  | Intake    | Over Flow | Under Flow  | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Manufacturer             |    |                          |       |                   | pH       | Location of Sample       | Depth      | Product         | Amount | Type      |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Type                     |    |                          |       |                   | Pressure | SPM                      | Pressure   | Boiler #        | Hours  | Run       | pH        | Stack Temp. | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Serial No                |    |                          |       |                   | Depth    |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Jets                     |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Depth Out (m)            |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Depth In (m)             |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Total Drilled (m)        |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Has Run Today            |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Completive the Run       |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Entry Data               |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| <b>CUTTING STRUCTURE</b> |    | <b>DRILLING ASSEMBLY</b> |       | <b>MUD RECORD</b> |          | <b>DEVIATION SURVEYS</b> |            | <b>TIME LOG</b> |        |           |           |             |      |    |         |      |   |
| TI                       | No | Component                | OO ID | Length            | Mad Type | Water                    | Oil        | Time            | Depth  | Deviation | Direction | Type        | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| TO                       |    |                          |       |                   | Density  | Funnel Viscosity         | Fluid Loss | Equipment       | Hours  | Intake    | Over Flow | Under Flow  | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| MOC                      |    |                          |       |                   | pH       | Location of Sample       | Depth      | Product         | Amount | Type      |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| LUC                      |    |                          |       |                   | Pressure | SPM                      | Pressure   | Boiler #        | Hours  | Run       | pH        | Stack Temp. | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Reason Pulled            |    |                          |       |                   | Depth    |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Total Run (m/h)          |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| Remarks                  |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| <b>HOLE CONDITION</b>    |    | <b>DRILLING ASSEMBLY</b> |       | <b>MUD RECORD</b> |          | <b>DEVIATION SURVEYS</b> |            | <b>TIME LOG</b> |        |           |           |             |      |    |         |      |   |
| Hole Drag                | No | Component                | OO ID | Length            | Mad Type | Water                    | Oil        | Time            | Depth  | Deviation | Direction | Type        | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   | Density  | Funnel Viscosity         | Fluid Loss | Equipment       | Hours  | Intake    | Over Flow | Under Flow  | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   | pH       | Location of Sample       | Depth      | Product         | Amount | Type      |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   | Pressure | SPM                      | Pressure   | Boiler #        | Hours  | Run       | pH        | Stack Temp. | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   | Depth    |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
| WOB                      |    |                          |       |                   |          |                          |            |                 |        |           |           |             | From | To | Elapsed | Code | Details of Operations                       |

**FRONT PAGE SUMMARY**

License No: 2073  
 Well Name: PABALET CAMERON 2H-03 HZ  
 Operator: PARAMOUNT RESOURCES LTD  
 Operator's AFE: 10N110006  
 Signature of Operator Representative: MICHAEL MCGENT

Well Number: 24  
 Well Type: HCRUZ  
 Location: 60 OF 20 40W117 20 N4 30W  
 Surface Location: 60 OF 20 40W117 20 N4 30W  
 Vendor Software Version: 2011  
 Month: 02  
 Day: 11

**DAILY CHECKS**  
 1) Rig Site Health & Safety Meeting (pre-shift/turnover)  
 2) 100% Rig Safety Inspection (checklist/penalty/notes)  
 3) 100% Rig Safety Inspection (checklist/penalty/notes)  
 4) 100% Rig Safety Inspection (checklist/penalty/notes)  
 5) 100% Rig Safety Inspection (checklist/penalty/notes)  
 6) 100% Rig Safety Inspection (checklist/penalty/notes)  
 7) 100% Rig Safety Inspection (checklist/penalty/notes)  
 8) 100% Rig Safety Inspection (checklist/penalty/notes)  
 9) 100% Rig Safety Inspection (checklist/penalty/notes)  
 10) 100% Rig Safety Inspection (checklist/penalty/notes)

| CODE         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|--------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Hours        | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| Actual       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Remaining    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Cond Prod    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Service      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Surveys      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Losses       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Weight of DC |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Pressure     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flow         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |





**FRONT PAGE SUMMARY**

License No 2073 WAJ Nims  
 Operator PARAMOUNT RESOURCES LTD.  
 Operator's A/E 101-10009  
 Signature of Operator Representative MICHAEL NICOEN  
 BRANTON

Contractor MACHOS DRILLING  
 Contractor's Job No C673  
 Signature of Contractor's Job Manager MICHAEL NICOEN

Tool Sheet Serial Number 048424, 20710214, 18  
 Surface Location 60-02-20-40N17-20-00-30W  
 Vendor Software Version Paxon  
 Paxon  
 Row Loc Type Unique Well ID  
 N1 L41-LONG 302-06301017200  
 RI No Well Type 24 HORIZ  
 Spud Date Time 20110219 03:00  
 Rig Release Date Time



| CODE        | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL |       |       |       |
|-------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|-------|-------|
|             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Hours | Rate  |       |       |
| Hour 1      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 12.00 | 12.00 |       |
| Hour 2      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       | 12.00 | 12.00 |
| Hour 3      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       | 12.00 | 12.00 |
| Hours Total |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 36.00 | 36.00 |       |

**FUEL @ 0.8580 HOURS**

|             |        |      |         |
|-------------|--------|------|---------|
| Consumption | 158.00 | Rate | 0.80    |
| Light Snow  | 6.00   | Rate | 0.17-92 |
| Light Snow  | 6.00   | Rate | 0.17-92 |
| Light Snow  | 6.00   | Rate | 0.17-92 |
| Light Snow  | 6.00   | Rate | 0.17-92 |

**TOUR 1 SIGNATURE OF DRILLER** T.M. BROCKE

**DRILLING ASSEMBLY**  
 No Component 00 ID Length

**MUD RECORD**  
 Mud Type Water  Oil   
 Time Density Funnel Viscosity Fluid Loss  
 Location of Sample pH  
 CIRCULATION Pump Type Size RPM Pressure Head

**REDUCED PUMP SPEED**  
 Pump No. Pressure Stroke/min Depth

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type

**SOLIDS CONTROL**  
 Equipment Hours Intake Over Flow Under Flow  
 Name Run Density Density Density

**MUD MATERIALS ADDED**  
 Product Amount Type

**TIME LOG**  
 From ToElapsed Code Details of Operations in Sequence & Remarks  
 00:00 12:00 12:00:54 400 BBS

**SAFETY**  
 Safety Topic MEHL MGP

**TOUR 2 SIGNATURE OF DRILLER** T.M. BROCKE

**DRILLING ASSEMBLY**  
 No Component 00 ID Length

**MUD RECORD**  
 Mud Type Water  Oil   
 Time Density Funnel Viscosity Fluid Loss  
 Location of Sample pH  
 CIRCULATION Pump Type Size RPM Pressure Head

**REDUCED PUMP SPEED**  
 Pump No. Pressure Stroke/min Depth

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type

**SOLIDS CONTROL**  
 Equipment Hours Intake Over Flow Under Flow  
 Name Run Density Density Density

**MUD MATERIALS ADDED**  
 Product Amount Type

**TIME LOG**  
 From ToElapsed Code Details of Operations in Sequence & Remarks  
 12:00 24:00 12:00:54 400 BBS  
 CHAIN CASE CHANGE OUT HYDRAULIC CONNERS, AND HOSES ON CANTANK, REBUILT VALVE BANK FOR CAT WALK

**SAFETY**  
 Safety Topic MEHL MGP

**TOUR 3 SIGNATURE OF DRILLER** T.M. BROCKE

**DRILLING ASSEMBLY**  
 No Component 00 ID Length

**MUD RECORD**  
 Mud Type Water  Oil   
 Time Density Funnel Viscosity Fluid Loss  
 Location of Sample pH  
 CIRCULATION Pump Type Size RPM Pressure Head

**REDUCED PUMP SPEED**  
 Pump No. Pressure Stroke/min Depth

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type

**SOLIDS CONTROL**  
 Equipment Hours Intake Over Flow Under Flow  
 Name Run Density Density Density

**MUD MATERIALS ADDED**  
 Product Amount Type

**TIME LOG**  
 From ToElapsed Code Details of Operations in Sequence & Remarks

**SAFETY**  
 Safety Topic MEHL MGP







**FRONT PAGE SUMMARY**

License No 2073 Well Name PAPA ET CAMERON 2H-03  
 Operator PAPA/MOUNT RESOURCES LTD  
 Operator's A/E 101110009  
 Operator of Operator Representative BLANSON

Your Sheet Serial Number 60424\_20710217\_1A  
 Surface Location 60 02 20 48V117 20 06 20W

Vendor Software Version Pason  
 Prov Loc Type Unique Well ID  
 NT LAT-LONG 2072-00001017290  
 Rig No Well Type 24 HORZ  
 Spud Date Time

Year 2011  
 Month 02  
 Day 17

- DAILY CHECKS**
- 1) OHS Work Area Inspection (during Clock Log)
  - 2) HSE Signs Present & Readable
  - 3) HSE Signs Present & Readable
  - 4) HSE License & Stack Diagrams Readable
  - 5) HSE Signs Present & Readable
  - 6) HSE Signs Present & Readable
  - 7) Visually inspect signs - Fences Lines & Dogear Lines
  - 8) HSE Signs Present & Readable
  - 9) HSE Signs Present & Readable
  - 10) HSE Signs Present & Readable
  - 11) HSE Signs Present & Readable
  - 12) HSE Signs Present & Readable
  - 13) HSE Signs Present & Readable
  - 14) HSE Signs Present & Readable
  - 15) HSE Signs Present & Readable
  - 16) HSE Signs Present & Readable
  - 17) HSE Signs Present & Readable
  - 18) HSE Signs Present & Readable
  - 19) HSE Signs Present & Readable
  - 20) HSE Signs Present & Readable
  - 21) HSE Signs Present & Readable
  - 22) HSE Signs Present & Readable
  - 23) HSE Signs Present & Readable
  - 24) HSE Signs Present & Readable
  - 25) HSE Signs Present & Readable



| CODE   | 1     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL |
|--------|-------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| Hour 1 | 3:75  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 12:00 |
| Hour 2 | 12:00 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 12:00 |
| Hour 3 |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 12:00 |
| Total  | 15:75 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 24:00 |

**WEATHER**

|           |        |
|-----------|--------|
| Temp      | 31.00  |
| Wind      | 101.00 |
| Hum       | 0.00   |
| Pres      | 98.00  |
| Cloud     | 0.00   |
| Wind Dir  | 0.00   |
| Wind Spd  | 0.00   |
| Wind Gust | 0.00   |
| Wind Max  | 0.00   |
| Wind Min  | 0.00   |
| Wind Avg  | 0.00   |
| Wind Std  | 0.00   |
| Wind Dev  | 0.00   |
| Wind Var  | 0.00   |
| Wind Cov  | 0.00   |
| Wind Cor  | 0.00   |
| Wind Tot  | 0.00   |
| Wind Avg  | 0.00   |
| Wind Std  | 0.00   |
| Wind Dev  | 0.00   |
| Wind Var  | 0.00   |
| Wind Cov  | 0.00   |
| Wind Cor  | 0.00   |
| Wind Tot  | 0.00   |

**TOUR 1 SIGNATURE OF DRILLER** VOID SIGNATURE

**DRILLING ASSEMBLY**

No. Component  00  ID Length

**MUD RECORD**

Mud Type  Water  Oil

Time Density  
 Funnel Viscosity  
 Fluid Loss  
 pH  
 Location of Sample  
 PVT  
 Circulation  
 Pump Type Low Sol. SPM Pressure/Max. Wt

**REDUCED PUMP SPEED**

Zung No. Pressure Stroke/Stroke Depth

**DEVIATION SURVEYS**

Time Depth Deviation Direction Type

**SOLIDS CONTROL**

Equipment Name Hours Intake Run Density Over Flow Density Under Flow Density

**MUD MATERIALS ADDED**

Product Amount Type

**BOILER**

Boiler # Hours Run pH Stack Temp

**TIME LOG**

From To Eased Code Details of Operations in Sequence & Remarks

00:00 00:00 8:00-8  
 00:00 00:15 0:25-1  
 00:15 12:00 3:75-4  
 SPOT MPTS. & THE RIG LOAD UP & MOVE SHOCKS & REPAIRS TO THE NEW LOCATION

**SAFETY**

Safety Topic MHEI MACP

**TOUR 2 SIGNATURE OF DRILLER** TIM BROCK

**DRILLING ASSEMBLY**

No. Component  00  ID Length

**MUD RECORD**

Mud Type  Water  Oil

Time Density  
 Funnel Viscosity  
 Fluid Loss  
 pH  
 Location of Sample  
 PVT  
 Circulation  
 Pump Type Low Sol. SPM Pressure/Max. Wt

**REDUCED PUMP SPEED**

Zung No. Pressure Stroke/Stroke Depth

**DEVIATION SURVEYS**

Time Depth Deviation Direction Type

**SOLIDS CONTROL**

Equipment Name Hours Intake Run Density Over Flow Density Under Flow Density

**MUD MATERIALS ADDED**

Product Amount Type

**BOILER**

Boiler # Hours Run pH Stack Temp

**TIME LOG**

From To Eased Code Details of Operations in Sequence & Remarks

12:00 16:30 4:30-4  
 16:30 24:00 7:30-1  
 SPOT RIG LOAD UP, MOVE RIG IN W/D TANKS AND MUD PUMPS, RAISE LOWER SECTION OF DERRICK

**SAFETY**

Safety Topic MHEI MACP

**TOUR 3 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**

No. Component  00  ID Length

**MUD RECORD**

Mud Type  Water  Oil

Time Density  
 Funnel Viscosity  
 Fluid Loss  
 pH  
 Location of Sample  
 PVT  
 Circulation  
 Pump Type Low Sol. SPM Pressure/Max. Wt

**REDUCED PUMP SPEED**

Zung No. Pressure Stroke/Stroke Depth

**DEVIATION SURVEYS**

Time Depth Deviation Direction Type

**SOLIDS CONTROL**

Equipment Name Hours Intake Run Density Over Flow Density Under Flow Density

**MUD MATERIALS ADDED**

Product Amount Type

**BOILER**

Boiler # Hours Run pH Stack Temp

**TIME LOG**

From To Eased Code Details of Operations in Sequence & Remarks

**SAFETY**

Safety Topic MHEI MACP





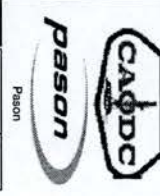


**FRONT PAGE SUMMARY**

License No 2073  
 PAPA ET CAMERON 24-0-HZ  
 Operator PAPA/MOUNT RESOURCES LTD  
 Operator's A/E  
 101110009  
 101110009  
 Signature of Operator Representative  
 BLANSTON  
 MICHAEL WICKERT

Your Sheet Serial Number  
 00464\_20710202\_1A  
 Surface Location  
 60 07 20 40N117 20 06 30W  
 Vendor Software Version  
 Pason  
 Year  
 2011  
 Month  
 02  
 Day  
 20

**DAILY CHECKS**  
 1) 100% Risk Assessment (Using Check List)  
 2) HSE Sign Register Reviewed  
 3) HSE Sign Register Reviewed  
 4) HSE Sign Register Reviewed  
 5) HSE Sign Register Reviewed  
 6) HSE Sign Register Reviewed  
 7) HSE Sign Register Reviewed  
 8) HSE Sign Register Reviewed  
 9) HSE Sign Register Reviewed  
 10) HSE Sign Register Reviewed  
 11) HSE Sign Register Reviewed  
 12) HSE Sign Register Reviewed  
 13) HSE Sign Register Reviewed  
 14) HSE Sign Register Reviewed  
 15) HSE Sign Register Reviewed  
 16) HSE Sign Register Reviewed  
 17) HSE Sign Register Reviewed  
 18) HSE Sign Register Reviewed  
 19) HSE Sign Register Reviewed  
 20) HSE Sign Register Reviewed  
 21) HSE Sign Register Reviewed  
 22) HSE Sign Register Reviewed  
 23) HSE Sign Register Reviewed  
 24) HSE Sign Register Reviewed  
 25) HSE Sign Register Reviewed



| CODE   | 1      | 2     | 3         | 4    | 5         | 6    | 7     | 8    | 9    | 10   | 11  | 12    | 13       | 14    | 15   | 16   | 17       | 18   | 19      | 20   | 21     | 22   | 23      | 24   | 25    |      |
|--------|--------|-------|-----------|------|-----------|------|-------|------|------|------|-----|-------|----------|-------|------|------|----------|------|---------|------|--------|------|---------|------|-------|------|
| Hour 1 | Rig No | 016   | Remaining | 7:25 | Con'd Mud | 0:24 | Times | 3:25 | Regr | 0:14 | Dew | 10:00 | Water On | 10:00 | Test | 0:00 | Separate | 0:00 | Fishing | 0:00 | Safety | 0:00 | Waiting | 0:00 | Other | 0:00 |
| Tour 2 | Actual | 10:50 | 0:50      | 1:00 | Service   | 0:25 |       |      |      |      |     |       |          |       |      |      |          |      |         |      |        |      |         |      |       |      |
| Tour 3 |        |       |           |      |           |      |       |      |      |      |     |       |          |       |      |      |          |      |         |      |        |      |         |      |       |      |
| Total  |        |       | 18:25     |      | 1:74      | 3:24 | 0:25  |      |      |      |     |       |          |       |      |      |          |      |         |      |        |      |         |      |       |      |

**WEATHER**  
 DATE: 02/20/11  
 TIME: 11:00 AM  
 WIND: 0.00 m/s  
 WIND DIR: 000  
 VIS: 10.00 km  
 CLOUDS: 000  
 PRECIP: 0.00 mm  
 REL HUM: 00%  
 PRESS: 1013.00 hPa  
 TEMP: 10.00 C

**TOUR 1 SIGNATURE OF DRILLER** TMA BRIDGE

**DRILLING ASSEMBLY**

|                   |            |        |           |        |        |        |
|-------------------|------------|--------|-----------|--------|--------|--------|
| BI Number         | 222        | No     | Component | 022    | ID     | Length |
| Size              | 5          | 1      | 7         | 102    | 64     | 8.19m  |
| UAC Code          | 190        | 190    | 190       | 190    | 190    | 1.11m  |
| Manufacturer      | FEED       | FEED   | FEED      | FEED   | FEED   | 1.00m  |
| Type              | BEZAMP     | BEZAMP | BEZAMP    | BEZAMP | BEZAMP | 1.00m  |
| Serial No         |            |        |           |        |        |        |
| Jobs              | 14.3       | 14.3   | 14.3      | 14.3   | 14.3   | 9.07m  |
| Depth Out (m)     |            |        |           |        |        |        |
| Depth In (m)      |            |        |           |        |        |        |
| Total Drilled (m) |            |        |           |        |        |        |
| He Run Today      |            |        |           |        |        |        |
| Cumulative He Run |            |        |           |        |        |        |
| Entry Date        | 15/11/2011 |        |           |        |        |        |

**HOLE CONDITION**

Hole Drag:  0mm  1mm  2mm  3mm  4mm  5mm  6mm  7mm  8mm  9mm  10mm

Weight of DC: \_\_\_\_\_

Weight of String: \_\_\_\_\_

**MUD RECORD**

|                    |       |       |
|--------------------|-------|-------|
| Time               | 02:20 | 06:00 |
| Density            | 1390  | 1080  |
| Fluid Velocity     | 390   | 450   |
| Fluid Loss         |       |       |
| pH                 | 8.5   | 8.5   |
| Location of Sample |       |       |
| Depth              | 90m   | 75m   |
| PVT                | 5m    |       |
| Shaker             |       |       |
| Pressure           |       |       |
| Temperature        |       |       |
| Other              |       |       |

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
|                |           |                |                    |

**MUD MATERIALS ADDED**

| Product  | Amount | Type |
|----------|--------|------|
| CAUSTIC  | 1      | SACK |
| KELZAN   | 1      | SACK |
| ULTRALOG | 1      | PAL  |
| SAWUST   | 8      | SACK |

**TIME LOG**

| From  | To    | Elapsed | Code                               | Details of Operations in Sequence & Remarks |
|-------|-------|---------|------------------------------------|---|
| 00:00 | 05:15 | 5:15    | BEAM & CLEAN FROM 44M TO 74M       |   |
| 05:15 | 06:00 | 0:45    | CIRCULATE & MONITOR LOSSES         |   |
| 06:00 | 07:25 | 1:25    | PICK UP DRILL PIPE FROM 74M TO 84M |   |
| 07:25 | 07:15 | 0:25    | SAFETY MEETING WITH BOTH CREWS     |   |
| 07:15 | 09:30 | 2:15    | PICK UP DRILL PIPE FROM 84M TO 92M |   |
| 09:30 | 12:30 | 3:00    | BEAM & CLEAN FROM 92M TO 117M      |   |

**SAFETY**

Safety Topic: \_\_\_\_\_

MEL: \_\_\_\_\_

MACP: \_\_\_\_\_

**TOUR 2 SIGNATURE OF DRILLER** WADE STEVENSON

**DRILLING ASSEMBLY**

|                   |            |        |           |        |        |        |
|-------------------|------------|--------|-----------|--------|--------|--------|
| BI Number         | 222        | No     | Component | 022    | ID     | Length |
| Size              | 5          | 1      | 7         | 102    | 64     | 8.19m  |
| UAC Code          | 190        | 190    | 190       | 190    | 190    | 1.11m  |
| Manufacturer      | FEED       | FEED   | FEED      | FEED   | FEED   | 1.00m  |
| Type              | BEZAMP     | BEZAMP | BEZAMP    | BEZAMP | BEZAMP | 1.00m  |
| Serial No         |            |        |           |        |        |        |
| Jobs              | 14.3       | 14.3   | 14.3      | 14.3   | 14.3   | 9.07m  |
| Depth Out (m)     |            |        |           |        |        |        |
| Depth In (m)      |            |        |           |        |        |        |
| Total Drilled (m) |            |        |           |        |        |        |
| He Run Today      |            |        |           |        |        |        |
| Cumulative He Run |            |        |           |        |        |        |
| Entry Date        | 15/11/2011 |        |           |        |        |        |

**HOLE CONDITION**

Hole Drag:  0mm  1mm  2mm  3mm  4mm  5mm  6mm  7mm  8mm  9mm  10mm

Weight of DC: \_\_\_\_\_

Weight of String: \_\_\_\_\_

**MUD RECORD**

|                    |       |       |
|--------------------|-------|-------|
| Time               | 14:00 | 18:00 |
| Density            | 1090  | 1110  |
| Fluid Velocity     | 400   | 420   |
| Fluid Loss         |       |       |
| pH                 | 9.0   | 9.0   |
| Location of Sample |       |       |
| Depth              |       |       |
| PVT                |       |       |
| Shaker             |       |       |
| Pressure           |       |       |
| Temperature        |       |       |
| Other              |       |       |

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
|                |           |                |                    |

**MUD MATERIALS ADDED**

| Product  | Amount | Type |
|----------|--------|------|
| KELZAN   | 3      | SACK |
| ULTRALOG | 1      | SACK |
| DISSOLC  | 1      | SACK |
| CAUSTIC  | 2      | SACK |

**TIME LOG**

| From  | To    | Elapsed | Code                           | Details of Operations in Sequence & Remarks |
|-------|-------|---------|--------------------------------|---|
| 12:00 | 16:00 | 4:00    | BEAM & CLEAN FROM 117M TO 128M |   |
| 16:00 | 16:15 | 0:15    | RIG SERVICE                    |   |
| 16:15 | 18:00 | 1:45    | BEAM & CLEAN FROM 128M TO 128M |   |
| 18:00 | 19:00 | 1:00    | CIRCULATE TO CLEAN HOLE        |   |
| 19:00 | 19:15 | 0:15    | SAFETY MEETING WITH BOTH CREWS |   |
| 19:15 | 24:00 | 4:45    | BEAM & CLEAN FROM 128M TO 127M |   |

**SAFETY**

Safety Topic: \_\_\_\_\_

MEL: \_\_\_\_\_

MACP: \_\_\_\_\_

**TOUR 3 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**

|                   |  |    |           |     |    |        |
|-------------------|--|----|-----------|-----|----|--------|
| BI Number         |  | No | Component | 022 | ID | Length |
| Size              |  |    |           |     |    |        |
| UAC Code          |  |    |           |     |    |        |
| Manufacturer      |  |    |           |     |    |        |
| Type              |  |    |           |     |    |        |
| Serial No         |  |    |           |     |    |        |
| Jobs              |  |    |           |     |    |        |
| Depth Out (m)     |  |    |           |     |    |        |
| Depth In (m)      |  |    |           |     |    |        |
| Total Drilled (m) |  |    |           |     |    |        |
| He Run Today      |  |    |           |     |    |        |
| Cumulative He Run |  |    |           |     |    |        |
| Entry Date        |  |    |           |     |    |        |

**HOLE CONDITION**

Hole Drag:  0mm  1mm  2mm  3mm  4mm  5mm  6mm  7mm  8mm  9mm  10mm

Weight of DC: \_\_\_\_\_

Weight of String: \_\_\_\_\_

**MUD RECORD**

|                    |  |  |
|--------------------|--|--|
| Time               |  |  |
| Density            |  |  |
| Fluid Velocity     |  |  |
| Fluid Loss         |  |  |
| pH                 |  |  |
| Location of Sample |  |  |
| Depth              |  |  |
| PVT                |  |  |
| Shaker             |  |  |
| Pressure           |  |  |
| Temperature        |  |  |
| Other              |  |  |

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
|                |           |                |                    |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**TIME LOG**

| From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
|------|----|---------|------|---|
|      |    |         |      |   |

**SAFETY**

Safety Topic: \_\_\_\_\_

MEL: \_\_\_\_\_

MACP: \_\_\_\_\_

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110220\_1A Vendor Software Version Pason Year 2011 Month 02 Day 20

|  |                                       |  |              |                                    |                                      |
|--|---------------------------------------|--|--------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30W   | Prov<br>NT   | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |                                       | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |
|  |                                       |  |              | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |



Pason

| DRILLING ASSEMBLY TOUR 1 |                  |        |         |        | DRILLING ASSEMBLY TOUR 2 |               |         |       |        | DRILLING ASSEMBLY TOUR 2 |              |         |       |        |
|--------------------------|------------------|--------|---------|--------|--------------------------|---------------|---------|-------|--------|--------------------------|--------------|---------|-------|--------|
| No                       | Component        | OD     | ID      | Length | No                       | Component     | OD      | ID    | Length | No                       | Component    | OD      | ID    | Length |
| 1                        | BIT              | 222.00 | 0.00    | 0.25   | 1                        | BIT           | 222.00  | 0.00  | 0.25   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   |
| 1                        | MOTOR LS         | 102.00 | 64.00   | 8.19   | 1                        | MOTOR LS      | 102.00  | 64.00 | 8.19   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   |
| 1                        | FLOAT SUB        | 165.00 | 64.00   | 1.11   | 1                        | FLOAT SUB     | 165.00  | 64.00 | 1.11   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |
| 1                        | ORIENT SUB       | 164.00 | 64.00   | 1.00   | 1                        | ORIENT SUB    | 164.00  | 64.00 | 1.00   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                        | MONEL FLEX       | 159.00 | 81.00   | 9.07   | 1                        | MONEL FLEX    | 159.00  | 81.00 | 9.07   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   |
| 1                        | MONEL FLEX       | 161.00 | 76.00   | 8.67   | 1                        | MONEL FLEX    | 161.00  | 76.00 | 8.67   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.66  |
| 1                        | MONEL FLEX       | 161.00 | 76.00   | 9.45   | 1                        | MONEL FLEX    | 161.00  | 76.00 | 9.45   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                        | X/O              | 160.00 | 69.00   | 0.67   | 1                        | X/O           | 160.00  | 69.00 | 0.67   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   |
| 6                        | HWDP(4.0 IN)     | 102.00 | 64.00   | 56.28  | 6                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 56.28  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   |
| 1                        | JARS-HYD/MECH    | 121.00 | 59.00   | 5.60   | 1                        | JARS-HYD/MECH | 121.00  | 59.00 | 5.60   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   |
| 54                       | HWDP(4.0 IN)     | 102.00 | 64.00   | 505.23 | 2                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 18.76  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
|                          |                  |        |         |        | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.37   | 3                        | HWDP(4.0 IN) | 102.00  | 64.00 | 28.02  |
|                          |                  |        |         |        | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   |
|                          |                  |        |         |        | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.31   |
|                          |                  |        |         |        | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.68  |
|                          |                  |        |         |        | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.32   |
|                          |                  |        |         |        | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.33   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   |
| 0                        | Drill Pipe       |        | Stands  | 0.00   | Drill Pipe               |               | Stands  |       |        | Drill Pipe               |              | Stands  |       |        |
| 0                        | Drill Pipe       |        | Singles | 0.00   | Drill Pipe               |               | Singles |       |        | Drill Pipe               |              | Singles |       |        |
|                          | Kelly Down       |        |         | 0.00   | Kelly Down               |               |         |       |        | Kelly Down               |              |         |       |        |
|                          | Total            |        |         | 605.52 | Total                    |               |         |       |        | Total                    |              |         |       |        |
|                          | Weight of DC     |        |         |        | Weight of DC             |               |         |       |        | Weight of DC             |              |         |       |        |
|                          | Weight of String |        |         |        | Weight of String         |               |         |       |        | Weight of String         |              |         |       |        |

| SPECIAL EVENTS |            |  |       |       |
|----------------|------------|--|-------|-------|
| Tour No.       | Event No.  | Description                                      | Time  | Depth |
| 1              | JSA REVIEW | C-08 PICK UP DP & HWDP, E-06 CHECK CROWN SAVER   | 00:00 |       |
| 2              | JSA REVIEW | B-68 PICK UP PIPE FROM V-DOOR, B-35 RIG TONG USE | 12:00 |       |
|                |            |  |       |       |
|                |            |  |       |       |
|                |            |  |       |       |
|                |            |  |       |       |

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424 20110220 1A Vendor Software Version Pason Year 2011 Month 02 Day 20

|   |                                       |   |                                    |                       |                                      |
|---|---------------------------------------|---|------------------------------------|-----------------------|--------------------------------------|
| License No<br>2073                                    | Well Name<br>PARA ET CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30W          | Prov<br>NT                         | Loc Type<br>LAT-LONG  | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.                  |                                       | Contractor<br>NABORS DRILLING                           | Rig No<br>24                       | Well Type<br>HORIZ    | Re-Entry<br><input type="checkbox"/> |
| Operator's AFE<br>10N110009                           |                                       | Contractor's Job No<br>C6473                            | Spud Date Time<br>2011/02/18 03:00 |                       |                                      |
| Signature of Operator Representative<br>JOSH BLINSTON |                                       | Signature of Contractor's Rig Manager<br>MICHAEL NUGENT |                                    | Rig Release Date Time |                                      |



Pason

| DRILLING ASSEMBLY |              |         |       |        | DRILLING ASSEMBLY |              |         |       |        | DRILLING ASSEMBLY |                  |    |         |        |  |
|-------------------|--------------|---------|-------|--------|-------------------|--------------|---------|-------|--------|-------------------|------------------|----|---------|--------|--|
| TOUR 2            |              |         |       |        | TOUR 2            |              |         |       |        | TOUR              |                  |    |         |        |  |
| No                | Component    | OD      | ID    | Length | No                | Component    | OD      | ID    | Length | No                | Component        | OD | ID      | Length |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.17   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |                   |              |         |       |        |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |                   |              |         |       |        |                   |                  |    |         |        |  |
| 4                 | HWDP(4.0 IN) | 102.00  | 64.00 | 37.56  |                   |              |         |       |        |                   |                  |    |         |        |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |                   |              |         |       |        |                   |                  |    |         |        |  |
| 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.78  |                   |              |         |       |        |                   |                  |    |         |        |  |
| Drill Pipe        |              | Stands  |       |        | Drill Pipe        |              | Stands  |       |        | 705.30            | Drill Pipe       |    | Stands  |        |  |
| Drill Pipe        |              | Singles |       |        | Drill Pipe        |              | Singles |       |        | 9.17              | Drill Pipe       |    | Singles |        |  |
| Kelly Down        |              |         |       |        | Kelly Down        |              |         |       |        | 7.01              | Kelly Down       |    |         |        |  |
| Total             |              |         |       |        | Total             |              |         |       |        | 1327.00           | Total            |    |         |        |  |
| Weight of DC      |              |         |       |        | Weight of DC      |              |         |       |        |                   | Weight of DC     |    |         |        |  |
| Weight of String  |              |         |       |        | Weight of String  |              |         |       |        | 50.00             | Weight of String |    |         |        |  |

| SPECIAL EVENTS |           |             |      |       |
|----------------|-----------|-------------|------|-------|
| Tour No.       | Event No. | Description | Time | Depth |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110220\_1A Vendor Software Version Pason Year 2011 Month 02 Day 20



|  |  |  |                       |                                    |                                      |
|--|--|--|-----------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT            | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ    | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |
|  |  |  | Rig Release Date Time |                                    |                                      |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 1      |                      |           |           |           | x     |  |     |  |       |  |
| Time   | 02:00                | 06:00     | 10:00     |           |       |  |     |  |       |  |
|        | Density              | 1080kg/m3 | 1080kg/m3 | 1100kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 39s/l     | 45s/l     | 34s/l     |       |  |     |  |       |  |
|        | Fluid Loss           |           |           |           |       |  |     |  |       |  |
|        | Fluid pH             | 8.5       | 8.5       | 9.0       |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | TANK 2    |       |  |     |  |       |  |
|        | Depth                | 501m      | 755m      | 1114m     |       |  |     |  |       |  |
|        | PVT                  | 52m3      |           |           |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No: 0X8424\_20110220\_1A  
 Vendor Software Version: Pason  
 Year: 2011, Month: 02, Day: 20



|  |  |  |                                    |                                      |                                    |
|--|--|--|------------------------------------|--------------------------------------|------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT                         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |                                    |
|  |  |  | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |                                    |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 2      |                      | POLYMER   |           |           | x     |  |     |  |       |  |
| Time   | 14:00                | 18:00     | 22:00     |           |       |  |     |  |       |  |
|        | Density              | 1090kg/m3 | 1110kg/m3 | 1115kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 40s/l     | 42s/l     | 45s/l     |       |  |     |  |       |  |
|        | Fluid Loss           |           |           | 8.5cm3    |       |  |     |  |       |  |
|        | Fluid pH             | 9.0       | 9.0       | 8         |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                |           |           | 1285m     |       |  |     |  |       |  |
|        | PVT                  |           |           | 35m3      |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**FRONT PAGE SUMMARY**

License No: 2073  
 Well Name: PAPA ET CAMERON 2H-03 LZ  
 Operator: PAPA/MOUNT RESOURCES LTD.  
 Operator's A/E: VON 110009  
 Title of Operator Representative: BLANSTON

Four Sheet Serial Number: 344924 20110221 1A  
 Surface Location: 66-02-20-00W17-20-N06-30W  
 Vendor Software Version: Paxon  
 Draw: 24  
 Well Type: HORIZ  
 Well ID: 201102218-03-00  
 Well Type: HORIZ  
 Well ID: 201102218-03-00  
 Release Date Time: 201102218-03-00

Year: 2011  
 Month: 02  
 Day: 21  
 Hour: 00:00  
 Minute: 00:00  
 Second: 00:00



| DE    | 1     | 2    | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10   | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21   | 22 | 23 | 24 | 25 |
|-------|-------|------|---|---|---|---|---|---|---|------|----|----|----|----|----|----|----|----|----|----|------|----|----|----|----|
| Run   | 10:25 | 0:75 |   |   |   |   |   |   |   |      |    |    |    |    |    |    |    |    |    |    | 0:50 |    |    |    |    |
| Stop  | 10:75 |      |   |   |   |   |   |   |   | 0:75 |    |    |    |    |    |    |    |    |    |    | 0:25 |    |    |    |    |
| Total |       |      |   |   |   |   |   |   |   | 0:90 |    |    |    |    |    |    |    |    |    |    | 1:15 |    |    |    |    |

**WEATHER**

|          |         |
|----------|---------|
| Temp     | 18.00   |
| Wind     | 0.00    |
| Humidity | 100.00  |
| Pressure | 1013.25 |
| Light    | 0.00    |
| Snow     | 0.00    |
| Ice      | 0.00    |

**TOUR 1 SIGNATURE OF DRILLER**

WAGE STEVENSON

**DRILLING ASSEMBLY**

|              |       |              |     |           |  |
|--------------|-------|--------------|-----|-----------|--|
| Bit Number   | 222   | No Component | 001 | ID Length |  |
| Size         | 5     | 1            | 7   |           |  |
| LADC Code    | FIELD | 102          | 64  | 8.19M     |  |
| Manufacturer | FIELD | 164          | 64  | 1.11M     |  |
| Type         | Wagon | 164          | 64  | 1.00M     |  |
| Serial No    | 143   | 14           | 14  | 3         |  |
| Log          | 14.3  | 14           | 14  | 3         |  |

**CUTTING STRUCTURE**

|     |                 |          |
|-----|-----------------|----------|
| TI  | Gage            |          |
| TO  | 00C             |          |
| MDC | Reason Pulled   |          |
| LOC | Total Run (m/h) | 1379.21m |

**HOLE CONDITION**

|                  |       |
|------------------|-------|
| Weight of String | 4845M |
| Tube Drag        | 0     |
| Fill on Bottom   |       |

**REDUCED PUMP SPEED**

|         |     |          |      |       |      |
|---------|-----|----------|------|-------|------|
| Pump No | 1   | Pressure | 50   | Depth | 1350 |
| Stroke  | 120 | SPM      | 1350 | SPM   | 1350 |

**DEVIATION SURVEYS**

| Time     | Depth | Direction | Type        |
|----------|-------|-----------|-------------|
| 1538.34m | 27.9  | 189.2     | DIRECTIONAL |
| 1535.92m | 27.9  | 171       | DIRECTIONAL |
| 1532.51m | 29.9  | 174       | DIRECTIONAL |
| 1528.77m | 31.3  | 177.3     | DIRECTIONAL |
| 1524.77m | 34.3  | 177.2     | DIRECTIONAL |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
| CENTRIFUGAL    | 12        | 1150           | 1190               |

**MUD MATERIALS ADDED**

| Product  | Amount | Type |
|----------|--------|------|
| CAUSTIC  | 4      | SACK |
| HELIAN   | 3      | SACK |
| ULTRALOC | 3      | PAIL |
| SAMPOUST | 7      | SACK |

**Boiler**

|          |   |           |    |    |      |            |     |
|----------|---|-----------|----|----|------|------------|-----|
| Boiler # | 1 | Hours Run | 12 | pH | 10.4 | Stack Temp | 250 |
|----------|---|-----------|----|----|------|------------|-----|

**TIME LOG**

| From  | To    | Elapsed | Code  | Details of Operations in Sequence & Remarks                                 |
|-------|-------|---------|-------|---|
| 00:00 | 00:45 | 0:45    | 0755A | HEAM & CLEAN FROM 1327M TO 1333M  |
| 00:45 | 01:00 | 0:25    | 0755A | HOPE DRILL WITH HOPE CREW WELL SECURE IN 30 SECONDS, DISBURSED ROCK WARRING |
| 01:00 | 01:05 | 0:05    | 0755A | SOLIDS, CHEW POSITIONS, DAILY CHECKS OF SURFACE EQUIPMENT                   |
| 01:05 | 01:15 | 0:10    | 0755A | DRILL 222MM HOLE FROM 1333M TO 1335M  |
| 01:15 | 01:15 | 0:00    | 0755A | HOPE SERVICE SUNCTION PREPARE 3 SEC TO CLOSE                                |
| 01:15 | 01:20 | 0:05    | 0755A | DRILL 222 MM HOLE FROM 1334M TO 1338M                                       |
| 01:20 | 01:25 | 0:05    | 0755A | SAFETY MEETING WITH CREWS   |
| 01:25 | 01:30 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1338M TO 1339M  |
| 01:30 | 01:35 | 0:05    | 0755A | LEVEL LOG   |
| 01:35 | 01:40 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1339M TO 1340M  |
| 01:40 | 01:45 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1340M TO 1341M  |
| 01:45 | 01:50 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1341M TO 1342M  |
| 01:50 | 01:55 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1342M TO 1343M  |
| 01:55 | 02:00 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1343M TO 1344M  |
| 02:00 | 02:05 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1344M TO 1345M  |
| 02:05 | 02:10 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1345M TO 1346M  |
| 02:10 | 02:15 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1346M TO 1347M  |
| 02:15 | 02:20 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1347M TO 1348M  |
| 02:20 | 02:25 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1348M TO 1349M  |
| 02:25 | 02:30 | 0:05    | 0755A | DRILL 222MM HOLE FROM 1349M TO 1350M  |

**SAFETY**

|              |      |      |
|--------------|------|------|
| Safety Topic | MEHL | MACP |
|--------------|------|------|

**START TIME**

12:00

**END TIME**

24:00

**TOUR 2 SIGNATURE OF DRILLER**

TIME BRODIE

**DRILLING ASSEMBLY**

|              |       |              |     |           |  |
|--------------|-------|--------------|-----|-----------|--|
| Bit Number   | 222   | No Component | 001 | ID Length |  |
| Size         | 5     | 1            | 7   |           |  |
| LADC Code    | FIELD | 102          | 64  | 8.19M     |  |
| Manufacturer | FIELD | 164          | 64  | 1.11M     |  |
| Type         | Wagon | 164          | 64  | 1.00M     |  |
| Serial No    | 143   | 14           | 14  | 3         |  |
| Log          | 14.3  | 14           | 14  | 3         |  |

**CUTTING STRUCTURE**

|     |                 |          |
|-----|-----------------|----------|
| TI  | Gage            |          |
| TO  | 00C             |          |
| MDC | Reason Pulled   |          |
| LOC | Total Run (m/h) | 1416.83m |

**HOLE CONDITION**

|                  |       |
|------------------|-------|
| Weight of String | 5154M |
| Tube Drag        | 0     |
| Fill on Bottom   |       |

**REDUCED PUMP SPEED**

|         |     |          |      |       |      |
|---------|-----|----------|------|-------|------|
| Pump No | 1   | Pressure | 50   | Depth | 1350 |
| Stroke  | 120 | SPM      | 1350 | SPM   | 1350 |

**DEVIATION SURVEYS**

| Time     | Depth | Direction | Type        |
|----------|-------|-----------|-------------|
| 1573.4m  | 37.6  | 177.6     | DIRECTIONAL |
| 1569.24m | 41.4  | 177.3     | DIRECTIONAL |
| 1562.26m | 45.4  | 175.9     | DIRECTIONAL |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
| CENTRIFUGAL    | 12        | 1100           | 1090               |

**MUD MATERIALS ADDED**

| Product  | Amount | Type |
|----------|--------|------|
| HELIAN   | 1      | SACK |
| LIQONITE | 2      | SACK |
| CAUSTIC  | 4      | SACK |
| ULTRALOC | 4      | PAIL |

**Boiler**

|          |   |           |    |    |    |            |     |
|----------|---|-----------|----|----|----|------------|-----|
| Boiler # | 1 | Hours Run | 12 | pH | 10 | Stack Temp | 300 |
|----------|---|-----------|----|----|----|------------|-----|

**TIME LOG**

| From  | To    | Elapsed | Code  | Details of Operations in Sequence & Remarks |
|-------|-------|---------|-------|---|
| 12:00 | 14:15 | 2:15    | 0225B | DRILL 222MM HOLE FROM 1379M TO 1384M        |
| 14:15 | 14:30 | 0:15    | 0225B | HOPE SERVICE, PUNCTION TIME MANUAL          |
| 14:30 | 19:00 | 4:30    | 0225B | DRILL 222MM HOLE FROM 1384M TO 1402M        |
| 19:00 | 19:15 | 0:15    | 0225B | SAFETY MEETING WITH BOTH CREWS              |
| 19:15 | 23:15 | 4:00    | 0225B | DRILL 222MM HOLE FROM 1402M TO 1416M        |
| 23:15 | 24:00 | 0:45    | 0225B | ACCOMPLISHED SURVEY TIME                    |

**SAFETY**

|              |      |      |
|--------------|------|------|
| Safety Topic | MEHL | MACP |
|--------------|------|------|

**START TIME**

12:00

**END TIME**

24:00

**TOUR 3 SIGNATURE OF DRILLER**

WAGE STEVENSON

**DRILLING ASSEMBLY**

|              |       |              |     |           |  |
|--------------|-------|--------------|-----|-----------|--|
| Bit Number   | 222   | No Component | 001 | ID Length |  |
| Size         | 5     | 1            | 7   |           |  |
| LADC Code    | FIELD | 102          | 64  | 8.19M     |  |
| Manufacturer | FIELD | 164          | 64  | 1.11M     |  |
| Type         | Wagon | 164          | 64  | 1.00M     |  |
| Serial No    | 143   | 14           | 14  | 3         |  |
| Log          | 14.3  | 14           | 14  | 3         |  |

**CUTTING STRUCTURE**

|     |                 |          |
|-----|-----------------|----------|
| TI  | Gage            |          |
| TO  | 00C             |          |
| MDC | Reason Pulled   |          |
| LOC | Total Run (m/h) | 1416.83m |

**HOLE CONDITION**

|                  |       |
|------------------|-------|
| Weight of String | 5154M |
| Tube Drag        | 0     |
| Fill on Bottom   |       |

**REDUCED PUMP SPEED**

|         |     |          |      |       |      |
|---------|-----|----------|------|-------|------|
| Pump No | 1   | Pressure | 50   | Depth | 1350 |
| Stroke  | 120 | SPM      | 1350 | SPM   | 1350 |

**DEVIATION SURVEYS**

| Time     | Depth | Direction | Type        |
|----------|-------|-----------|-------------|
| 1573.4m  | 37.6  | 177.6     | DIRECTIONAL |
| 1569.24m | 41.4  | 177.3     | DIRECTIONAL |
| 1562.26m | 45.4  | 175.9     | DIRECTIONAL |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Under Flow Density |
|----------------|-----------|----------------|--------------------|
| CENTRIFUGAL    | 12        | 1100           | 1090               |

**MUD MATERIALS ADDED**

| Product  | Amount | Type |
|----------|--------|------|
| HELIAN   | 1      | SACK |
| LIQONITE | 2      | SACK |
| CAUSTIC  | 4      | SACK |
| ULTRALOC | 4      | PAIL |

**Boiler**

|          |   |           |    |    |    |            |     |
|----------|---|-----------|----|----|----|------------|-----|
| Boiler # | 1 | Hours Run | 12 | pH | 10 | Stack Temp | 300 |
|----------|---|-----------|----|----|----|------------|-----|

**TIME LOG**

| From  | To    | Elapsed | Code  | Details of Operations in Sequence & Remarks |
|-------|-------|---------|-------|---|
| 12:00 | 14:15 | 2:15    | 0225B | DRILL 222MM HOLE FROM 1379M TO 1384M        |
| 14:15 | 14:30 | 0:15    | 0225B | HOPE SERVICE, PUNCTION TIME MANUAL          |
| 14:30 | 19:00 | 4:30    | 0225B | DRILL 222MM HOLE FROM 1384M TO 1402M        |
| 19:00 | 19:15 | 0:15    | 0225B | SAFETY MEETING WITH BOTH CREWS              |
| 19:15 | 23:15 | 4:00    | 0225B | DRILL 222MM HOLE FROM 1402M TO 1416M        |
| 23:15 | 24:00 | 0:45    | 0225B | ACCOMPLISHED SURVEY TIME                    |

**SAFETY**

|              |      |      |
|--------------|------|------|
| Safety Topic | MEHL | MACP |
|--------------|------|------|

**START TIME**

12:00

**END TIME**

24:00

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110221\_1A Vendor Software Version Pason Year 2011 Month 02 Day 21

|  |                                       |  |              |                                    |                                      |
|--|---------------------------------------|--|--------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30W   | Prov<br>NT   | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |                                       | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |
|  |                                       |  |              | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |



Pason

| DRILLING ASSEMBLY TOUR 1 |               |         |       |        | DRILLING ASSEMBLY TOUR 1 |              |         |       |        | DRILLING ASSEMBLY TOUR 1 |              |         |       |        |
|--------------------------|---------------|---------|-------|--------|--------------------------|--------------|---------|-------|--------|--------------------------|--------------|---------|-------|--------|
| No                       | Component     | OD      | ID    | Length | No                       | Component    | OD      | ID    | Length | No                       | Component    | OD      | ID    | Length |
| 1                        | BIT           | 222.00  | 0.00  | 0.25   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                        | MOTOR LS      | 102.00  | 64.00 | 8.19   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   |
| 1                        | FLOAT SUB     | 165.00  | 64.00 | 1.11   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                        | ORIENT SUB    | 164.00  | 64.00 | 1.00   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   |
| 1                        | MONEL FLEX    | 159.00  | 81.00 | 9.07   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                        | MONEL FLEX    | 161.00  | 76.00 | 8.67   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.66  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |
| 1                        | MONEL FLEX    | 161.00  | 76.00 | 9.45   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.17   |
| 1                        | X/O           | 160.00  | 69.00 | 0.67   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |
| 6                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 56.28  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |
| 1                        | JARS-HYD/MECH | 121.00  | 59.00 | 5.60   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   |
| 2                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 18.76  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.37   | 3                        | HWDP(4.0 IN) | 102.00  | 64.00 | 28.02  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.31   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.68  | 4                        | HWDP(4.0 IN) | 102.00  | 64.00 | 37.56  |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.32   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.33   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.78  |
| Drill Pipe               |               | Stands  |       |        | Drill Pipe               |              | Stands  |       |        | Drill Pipe               |              | Stands  |       |        |
| Drill Pipe               |               | Singles |       |        | Drill Pipe               |              | Singles |       |        | Drill Pipe               |              | Singles |       |        |
| Kelly Down               |               |         |       |        | Kelly Down               |              |         |       |        | Kelly Down               |              |         |       |        |
| Total                    |               |         |       |        | Total                    |              |         |       |        | Total                    |              |         |       |        |
| Weight of DC             |               |         |       |        | Weight of DC             |              |         |       |        | Weight of DC             |              |         |       |        |
| Weight of String         |               |         |       |        | Weight of String         |              |         |       |        | Weight of String         |              |         |       |        |

| SPECIAL EVENTS |            |   |       |       |
|----------------|------------|---|-------|-------|
| Tour No.       | Event No.  | Description   | Time  | Depth |
| 1              | JSA REVIEW | B-31 RIH, B-68 PICK UP DP FROM V-DOOR, N-09 MIX MUD CHEMICALS | 00:00 |       |
| 2              | JSA REVIEW | B-74 PICK UP DRILL PIPE B-89 SETTING SLIPS                    | 12:00 |       |
|                |            |   |       |       |
|                |            |   |       |       |
|                |            |   |       |       |

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0XB424 20110221 1A Vendor Software Version Pason Year 2011 Month 02 Day 21

|  |                                       |  |              |                                    |                                      |
|--|---------------------------------------|--|--------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30W   | Prov<br>NT   | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |                                       | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |
|  |                                       |  |              | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |



Pason

| DRILLING ASSEMBLY TOUR 1 |                  |        |         |         | DRILLING ASSEMBLY TOUR 2 |                  |        |         |         | DRILLING ASSEMBLY TOUR |                  |    |         |        |
|--------------------------|------------------|--------|---------|---------|--------------------------|------------------|--------|---------|---------|------------------------|------------------|----|---------|--------|
| No                       | Component        | OD     | ID      | Length  | No                       | Component        | OD     | ID      | Length  | No                     | Component        | OD | ID      | Length |
| 1                        | HWDP(4.0 IN)     | 102.00 | 64.00   | 9.40    | 1                        | BIT              | 222.00 | 0.00    | 0.25    |                        |                  |    |         |        |
| 1                        | HWDP(4.0 IN)     | 102.00 | 64.00   | 9.39    | 1                        | MOTOR LS         | 102.00 | 64.00   | 8.19    |                        |                  |    |         |        |
|                          |                  |        |         |         | 1                        | FLOAT SUB        | 165.00 | 64.00   | 1.11    |                        |                  |    |         |        |
|                          |                  |        |         |         | 1                        | ORIENT SUB       | 164.00 | 64.00   | 1.00    |                        |                  |    |         |        |
|                          |                  |        |         |         | 1                        | MONEL FLEX       | 159.00 | 81.00   | 9.07    |                        |                  |    |         |        |
|                          |                  |        |         |         | 1                        | MONEL FLEX       | 161.00 | 76.00   | 8.67    |                        |                  |    |         |        |
|                          |                  |        |         |         | 1                        | MONEL FLEX       | 161.00 | 76.00   | 9.45    |                        |                  |    |         |        |
|                          |                  |        |         |         | 1                        | X/O              | 160.00 | 69.00   | 0.67    |                        |                  |    |         |        |
|                          |                  |        |         |         | 6                        | HWDP(4.0 IN)     | 102.00 | 64.00   | 56.28   |                        |                  |    |         |        |
|                          |                  |        |         |         | 1                        | JARS-HYD/MECH    | 121.00 | 59.00   | 5.60    |                        |                  |    |         |        |
|                          |                  |        |         |         | 54                       | HWDP(4.0 IN)     | 102.00 | 64.00   | 505.23  |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
|                          |                  |        |         |         |                          |                  |        |         |         |                        |                  |    |         |        |
| 40                       | Drill Pipe       |        | Stands  | 761.72  | 42                       | Drill Pipe       |        | Stands  | 799.34  |                        | Drill Pipe       |    | Stands  |        |
| 0                        | Drill Pipe       |        | Singles | 0.00    | 0                        | Drill Pipe       |        | Singles | 0.00    |                        | Drill Pipe       |    | Singles |        |
|                          | Kelly Down       |        |         | 11.97   |                          | Kelly Down       |        |         | 11.97   |                        | Kelly Down       |    |         |        |
|                          | Total            |        |         | 1379.21 |                          | Total            |        |         | 1416.83 |                        | Total            |    |         |        |
|                          | Weight of DC     |        |         |         |                          | Weight of DC     |        |         |         |                        | Weight of DC     |    |         |        |
|                          | Weight of String |        |         | 49.00   |                          | Weight of String |        |         | 51.00   |                        | Weight of String |    |         |        |

| SPECIAL EVENTS |           |             |      |       |
|----------------|-----------|-------------|------|-------|
| Tour No.       | Event No. | Description | Time | Depth |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110221\_1A Vendor Software Version Pason Year 2011 Month 02 Day 21



|  |  |  |                    |                                    |                                      |
|--|--|--|--------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |
|  |  |  |                    | Rig Release Date Time              |                                      |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 1      |                      | POLYMER   |           |           | x     |  |     |  |       |  |
|        | Time                 | 02:00     | 06:00     | 10:00     |       |  |     |  |       |  |
|        | Density              | 1120kg/m3 | 1120kg/m3 | 1120kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 43s/l     | 42s/l     | 40s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 9cm3      | 8.5cm3    | 7.5cm3    |       |  |     |  |       |  |
|        | Fluid pH             | 9.5       | 10        | 9.5       |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                | 1339m     | 1354m     | 1369m     |       |  |     |  |       |  |
|        | PVT                  | 32m3      | 31m3      |           |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110221\_1A Vendor Software Version Pason Year 2011 Month 02 Day 21



|  |  |  |                    |   |                                    |
|--|--|--|--------------------|---|------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG  | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Re-Entry<br><input type="checkbox"/><br>Spud Date Time<br>2011/02/18 03:00<br>Rig Release Date Time |                                    |



Pason

| TOUR   |                         | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |  |  |  |  |  |  |  |  |  |  |  |
|--------|-------------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| 2      |                         | POLYMER   |           |           | x     |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Time                    | 14:00     | 16:00     | 22:00     |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Density                 | 1110kg/m3 | 1110kg/m3 | 1100kg/m3 |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Funnel Viscosity        | 42s/l     | 45s/l     | 62s/l     |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Fluid Loss              | 7.5cm3    | 6.0cm3    | 9cm3      |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Fluid pH                | 10        | 10.0      | 10        |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Location of Sample      | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Depth                   | 1389m     | 1400m     | 1412m     |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | PVT                     | 39.2m3    | 41.7m3    | 44m3      |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1 | Type<br>(Ex: Chlorides) |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Value                   |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2 | Type<br>(ex: Sand%)     |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Value                   |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3 | Type<br>(ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Value                   |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4 | Type<br>(ex: Sulfides)  |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |
|        | Value                   |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**FRONT PAGE SUMMARY**

License No 2073 Well Name PAPA ET CAMERON 2#-03-HZ  
 Operator PAPA/MOORE RESOURCES LTD.  
 Operator's A/E TONY10009  
 Signature of Operator Representative BLANSTON

Your Sheet Serial Number 36424\_2071022\_1A  
 Surface Location 60.02.20.40N117.20.06.W0W

Vendor Software Version Pason  
 Prov Loc Type Unique Well ID  
 LAT/LONG 207-02-20.40N 117-20.06W  
 Rig No Well Type 24 HORIZ  
 Send Date Time 2011/02/18 03:00  
 Signature of Contractor's Rig Manager MICHAEL MUEBERT

**DAILY CHECKS**

- 1) Don't mix concrete (using Check List)
- 2) Don't mix concrete (using Check List)
- 3) Use Sign Process if Required
- 4) Mix Concrete & Stack Disposal Method
- 5) Don't mix concrete (using Check List)
- 6) Don't mix concrete (using Check List)
- 7) Heavy material only - Free Line & Dogleg Lines ONLY
- 8) Don't mix concrete (using Check List)
- 9) Don't mix concrete (using Check List)
- 10) Don't mix concrete (using Check List)
- 11) Don't mix concrete (using Check List)
- 12) Don't mix concrete (using Check List)
- 13) Don't mix concrete (using Check List)
- 14) Don't mix concrete (using Check List)
- 15) Don't mix concrete (using Check List)
- 16) Don't mix concrete (using Check List)
- 17) Don't mix concrete (using Check List)
- 18) Don't mix concrete (using Check List)
- 19) Don't mix concrete (using Check List)
- 20) Don't mix concrete (using Check List)
- 21) Don't mix concrete (using Check List)
- 22) Don't mix concrete (using Check List)
- 23) Don't mix concrete (using Check List)
- 24) Don't mix concrete (using Check List)
- 25) Don't mix concrete (using Check List)

| Code   | 1    | 2 | 3 | 4 | 5    | 6    | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20   | 21   | 22   | 23   | 24 | 25 | TOTAL |
|--------|------|---|---|---|------|------|---|---|---|----|----|----|----|----|----|----|----|----|----|------|------|------|------|----|----|-------|
| Hour 1 |      |   |   |   |      |      |   |   |   |    |    |    |    |    |    |    |    |    |    |      |      |      |      |    |    |       |
| Hour 2 |      |   |   |   |      |      |   |   |   |    |    |    |    |    |    |    |    |    |    |      |      |      |      |    |    |       |
| Hour 3 |      |   |   |   |      |      |   |   |   |    |    |    |    |    |    |    |    |    |    |      |      |      |      |    |    |       |
| Total  | 3.75 |   |   |   | 1.26 | 5.74 |   |   |   |    |    |    |    |    |    |    |    |    |    | 9.50 | 1.00 | 0.25 | 2.00 |    |    | 24.00 |

**WEATHER**

|                    |         |
|--------------------|---------|
| WIND SPEED         | 18.00   |
| WIND DIRECTION     | 0.00    |
| TEMPERATURE        | 20.96   |
| RELATIVE HUMIDITY  | 10.13   |
| SEA LEVEL PRESSURE | 1013.25 |

**TOUR 1 SIGNATURE OF DRILLER** TM BRIDGE

**DRILLING ASSEMBLY**

BR Number 222 Size 222 Component 00 ID Length 2220  
 LADC Code M30TOR US 102 64 1.9M  
 Manufacturer FRED  
 Type F20 AMP  
 Serial No 435000

**HOLE CONDITION**  
 Hole Drag 16 Down  
 Torque at Bottom 42 Stuck  
 Fil on Bottom

**MUD RECORD**  
 Mud Type Water  
 Time 02:00  
 Density 1100  
 Funnel Viscosity 74ml  
 Fluid Loss 9.5cm  
 pH 8.5

**REDUCED PUMP SPEED**  
 Pump No Pressure Stroke/Min Depth  
 1 2000 50 1350

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction  | Type      |
|-------|-------|-----------|--|-----------|
| 00:00 | 03:42 | 3.75      | DRILL FROM 14.15M TO 14.24M  | DRILL     |
| 00:45 | 04:15 | 0.58      | CIRCULATE BOTTOMS UP   | CIRCULATE |
| 04:15 | 07:25 | 2.78      | THROW OUT OF HOLE FROM 14.24M FLOW CHECKS @ 14.14M 13.9M   | THROW OUT |
| 07:25 | 07:45 | 0.61      | SAFETY MEETING WITH BOTH CREWS   | SAFETY    |
| 07:45 | 09:15 | 3.02      | THROW OUT OF HOLE FROM 8.71M 15M LAD DOWN THE JARS   | THROW OUT |
| 10:15 | 10:35 | 0.29      | PRE JOB SAFETY MEETING WITH OPERATIONAL HANDS  | PRE JOB   |
| 10:35 | 11:35 | 1.05      | THROW OUT OF HOLE THROUGH THE WALL BEARING STEERING BELOW THE COMP W/O CHECKS F T PIPE AND BLND RAMES 3 SECS EACH TO CLOSE | THROW OUT |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
| CAUSTIC        |           |                | 2                 | SACK               |
| LOBBIE         |           |                | 1                 | SACK               |
| DESICO         |           |                | 1                 | SACK               |
| BARITE         |           |                | 4                 | SACK               |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
| CAUSTIC | 2      | SACK |
| LOBBIE  | 1      | SACK |
| DESICO  | 1      | SACK |
| BARITE  | 4      | SACK |

**TIME LOG**

| From  | To    | Elapsed | Code   | Details of Operations in Sequence & Remarks                                |
|-------|-------|---------|--------|--|
| 12:00 | 13:30 | 1:30    | 1502B  | CLEAN UP THE DRILL FLOOR GET BIT SIZE CHECKS OVERS AND BIT UP TO THE FLOOR |
| 13:30 | 19:05 | 5:35    | 1501B  | RUN IN HOLE TO CONFIRM FISH DEPTH FROM 0M-13.7M                            |
| 19:05 | 19:15 | 0:20    | SAFETY | SAFETY MEETING WITH BOTH CREWS   |
| 19:15 | 20:45 | 1:30    | 1501B  | WASH FISH FROM 13.7M TO 14.15M AND POLISH TOP OF FISH @ 14.15M             |
| 20:45 | 21:35 | 0:50    | 1501B  | CIRCULATE HOLE CLEAN AND MIX A PILL  |
| 21:35 | 24:00 | 2:30    | 1501B  | PULL OUT OF HOLE TO PICK UP FISHING TOOLS FLOW CHECKS @ 14.1M 13.9M 11.1M  |

**SAFETY**

Safety Topic: MENT  
 MENT: MENT  
 MENT: MENT

**TOUR 2 SIGNATURE OF DRILLER** WADE STEVENSON

**DRILLING ASSEMBLY**

BR Number 222 Size 222 Component 00 ID Length 2220  
 LADC Code M30TOR US 102 64 1.9M  
 Manufacturer FRED  
 Type F20 AMP  
 Serial No 435000

**HOLE CONDITION**  
 Hole Drag 16 Down  
 Torque at Bottom 42 Stuck  
 Fil on Bottom

**MUD RECORD**  
 Mud Type Water  
 Time 21:00  
 Density 1060  
 Funnel Viscosity 73ml  
 Fluid Loss 10.5cm  
 pH 8.5

**REDUCED PUMP SPEED**  
 Pump No Pressure Stroke/Min Depth  
 1 2000 50 1350

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction  | Type      |
|-------|-------|-----------|--|-----------|
| 00:00 | 03:42 | 3.75      | DRILL FROM 14.15M TO 14.24M  | DRILL     |
| 00:45 | 04:15 | 0.58      | CIRCULATE BOTTOMS UP   | CIRCULATE |
| 04:15 | 07:25 | 2.78      | THROW OUT OF HOLE FROM 14.24M FLOW CHECKS @ 14.14M 13.9M   | THROW OUT |
| 07:25 | 07:45 | 0.61      | SAFETY MEETING WITH BOTH CREWS   | SAFETY    |
| 07:45 | 09:15 | 3.02      | THROW OUT OF HOLE FROM 8.71M 15M LAD DOWN THE JARS   | THROW OUT |
| 10:15 | 10:35 | 0.29      | PRE JOB SAFETY MEETING WITH OPERATIONAL HANDS  | PRE JOB   |
| 10:35 | 11:35 | 1.05      | THROW OUT OF HOLE THROUGH THE WALL BEARING STEERING BELOW THE COMP W/O CHECKS F T PIPE AND BLND RAMES 3 SECS EACH TO CLOSE | THROW OUT |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
| CAUSTIC        |           |                | 2                 | SACK               |
| LOBBIE         |           |                | 1                 | SACK               |
| DESICO         |           |                | 1                 | SACK               |
| BARITE         |           |                | 4                 | SACK               |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
| CAUSTIC | 2      | SACK |
| LOBBIE  | 1      | SACK |
| DESICO  | 1      | SACK |
| BARITE  | 4      | SACK |

**TIME LOG**

| From  | To    | Elapsed | Code   | Details of Operations in Sequence & Remarks                                |
|-------|-------|---------|--------|--|
| 12:00 | 13:30 | 1:30    | 1502B  | CLEAN UP THE DRILL FLOOR GET BIT SIZE CHECKS OVERS AND BIT UP TO THE FLOOR |
| 13:30 | 19:05 | 5:35    | 1501B  | RUN IN HOLE TO CONFIRM FISH DEPTH FROM 0M-13.7M                            |
| 19:05 | 19:15 | 0:20    | SAFETY | SAFETY MEETING WITH BOTH CREWS   |
| 19:15 | 20:45 | 1:30    | 1501B  | WASH FISH FROM 13.7M TO 14.15M AND POLISH TOP OF FISH @ 14.15M             |
| 20:45 | 21:35 | 0:50    | 1501B  | CIRCULATE HOLE CLEAN AND MIX A PILL  |
| 21:35 | 24:00 | 2:30    | 1501B  | PULL OUT OF HOLE TO PICK UP FISHING TOOLS FLOW CHECKS @ 14.1M 13.9M 11.1M  |

**SAFETY**

Safety Topic: MENT  
 MENT: MENT  
 MENT: MENT

**TOUR 3 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**

BR Number 222 Size 222 Component 00 ID Length 2220  
 LADC Code M30TOR US 102 64 1.9M  
 Manufacturer FRED  
 Type F20 AMP  
 Serial No 435000

**HOLE CONDITION**  
 Hole Drag 16 Down  
 Torque at Bottom 42 Stuck  
 Fil on Bottom

**MUD RECORD**  
 Mud Type Water  
 Time 21:00  
 Density 1060  
 Funnel Viscosity 73ml  
 Fluid Loss 10.5cm  
 pH 8.5

**REDUCED PUMP SPEED**  
 Pump No Pressure Stroke/Min Depth  
 1 2000 50 1350

**DEVIATION SURVEYS**

| Time  | Depth | Deviation | Direction  | Type      |
|-------|-------|-----------|--|-----------|
| 00:00 | 03:42 | 3.75      | DRILL FROM 14.15M TO 14.24M  | DRILL     |
| 00:45 | 04:15 | 0.58      | CIRCULATE BOTTOMS UP   | CIRCULATE |
| 04:15 | 07:25 | 2.78      | THROW OUT OF HOLE FROM 14.24M FLOW CHECKS @ 14.14M 13.9M   | THROW OUT |
| 07:25 | 07:45 | 0.61      | SAFETY MEETING WITH BOTH CREWS   | SAFETY    |
| 07:45 | 09:15 | 3.02      | THROW OUT OF HOLE FROM 8.71M 15M LAD DOWN THE JARS   | THROW OUT |
| 10:15 | 10:35 | 0.29      | PRE JOB SAFETY MEETING WITH OPERATIONAL HANDS  | PRE JOB   |
| 10:35 | 11:35 | 1.05      | THROW OUT OF HOLE THROUGH THE WALL BEARING STEERING BELOW THE COMP W/O CHECKS F T PIPE AND BLND RAMES 3 SECS EACH TO CLOSE | THROW OUT |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
| CAUSTIC        |           |                | 2                 | SACK               |
| LOBBIE         |           |                | 1                 | SACK               |
| DESICO         |           |                | 1                 | SACK               |
| BARITE         |           |                | 4                 | SACK               |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
| CAUSTIC | 2      | SACK |
| LOBBIE  | 1      | SACK |
| DESICO  | 1      | SACK |
| BARITE  | 4      | SACK |

**TIME LOG**

| From  | To    | Elapsed | Code   | Details of Operations in Sequence & Remarks                                |
|-------|-------|---------|--------|--|
| 12:00 | 13:30 | 1:30    | 1502B  | CLEAN UP THE DRILL FLOOR GET BIT SIZE CHECKS OVERS AND BIT UP TO THE FLOOR |
| 13:30 | 19:05 | 5:35    | 1501B  | RUN IN HOLE TO CONFIRM FISH DEPTH FROM 0M-13.7M                            |
| 19:05 | 19:15 | 0:20    | SAFETY | SAFETY MEETING WITH BOTH CREWS   |
| 19:15 | 20:45 | 1:30    | 1501B  | WASH FISH FROM 13.7M TO 14.15M AND POLISH TOP OF FISH @ 14.15M             |
| 20:45 | 21:35 | 0:50    | 1501B  | CIRCULATE HOLE CLEAN AND MIX A PILL  |
| 21:35 | 24:00 | 2:30    | 1501B  | PULL OUT OF HOLE TO PICK UP FISHING TOOLS FLOW CHECKS @ 14.1M 13.9M 11.1M  |

**SAFETY**

Safety Topic: MENT  
 MENT: MENT  
 MENT: MENT

















**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110225\_1A Vendor Software Version Pason Year 2011 Month 02 Day 25

License No 2073 Well Name PARA ET CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30W Prov NT Loc Type LAT-LONG Unique Well Id 302H036010117300

|  |  |              |   |                                      |
|--|--|--------------|---|--------------------------------------|
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ<br>Spud Date Time<br>2011/02/18 03:00<br>Rig Release Date Time | Re-Entry<br><input type="checkbox"/> |
|--|--|--------------|---|--------------------------------------|



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |  |  |  |  |  |  |  |  |  |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|--|--|--|--|--|--|--|--|--|--|
| 2      |                      | POLYMER   |           |           | x     |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Time   | 18:00                | 22:30     | 23:45     |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | Density              | 1100kg/m3 | 1080kg/m3 | 1080kg/m3 |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | Funnel Viscosity     | 43s/l     | 42s/l     | 43s/l     |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | Fluid Loss           | 10cm3     | 8.5cm3    | 8cm3      |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | Fluid pH             | 9.5       | 9.5       | 9.5       |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | Depth                | 1358m     | 1390m     | 1396m     |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | PVT                  | 50m3      | 53m3      | 54.5m3    |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |  |  |

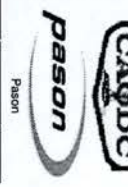
**MUD SAMPLE REMARKS**

**FRONT PAGE SUMMARY**

License No 2073  
 Well Name PARK ET CAMERON 24-01 HZ  
 Operator PEARCEMOUNT RESOURCES LTD  
 Operator's A/E JOHN TROOD  
 201110009  
 Representative of Operator Representative MICHAEL MCKENZIE

For Street Serial Number 20464, 20710226, 1A  
 Surface Location 60 02 20 40N 117 20 06 30W  
 Vendor Software Version PASON  
 Pym Loc Type Unique Well ID  
 RIG NO LAY LONG 300-0301017200  
 RIG NO Well Type 24  
 Hour#  
 Spud Date Time 20110219 03:00  
 Rig Release Date Time

**DAILY CHECKS**  
 1) Daily Well Record Inspection  
 2) Daily Wellhead Inspection  
 3) HCS Screen Record Inspection  
 4) Well Location & Stock Diagrams Inspected  
 5) Rig Litter Record  
 6) Wellhead Safety  
 7) Wellhead Inspection  
 8) Wellhead Safety - Fire Risk & Debris  
 9) Wellhead Safety - Fire Risk & Debris  
 10) Wellhead Safety - Fire Risk & Debris  
 11) Wellhead Safety - Fire Risk & Debris  
 12) Wellhead Safety - Fire Risk & Debris  
 13) Wellhead Safety - Fire Risk & Debris  
 14) Wellhead Safety - Fire Risk & Debris  
 15) Wellhead Safety - Fire Risk & Debris  
 16) Wellhead Safety - Fire Risk & Debris  
 17) Wellhead Safety - Fire Risk & Debris  
 18) Wellhead Safety - Fire Risk & Debris  
 19) Wellhead Safety - Fire Risk & Debris  
 20) Wellhead Safety - Fire Risk & Debris  
 21) Wellhead Safety - Fire Risk & Debris  
 22) Wellhead Safety - Fire Risk & Debris  
 23) Wellhead Safety - Fire Risk & Debris  
 24) Wellhead Safety - Fire Risk & Debris  
 25) Wellhead Safety - Fire Risk & Debris



| CODE   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|--------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Hour 1 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Hour 2 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Hour 3 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Total  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

WEATHER  
 Temp: 15.00  
 Wind: 0.00  
 Hum: 30.00  
 Rain: 0.00  
 Cloud: 0.00  
 Pressure: 1013.00

**TOUR 1 SIGNATURE OF DRILLER**

WADE STEVENSON

**TOUR 1 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**  
 No Component OD ID Length

**MUD RECORD**  
 Mud Type Water  Oil   
 Time 03:00 06:00  
 Density 1070 1060  
 Funnel Viscosity 425k 425k  
 Fluid Loss 8.5cm 8cm  
 pH 8.5 8.5  
 Location of Sample SWAKER 1417m  
 Depth 1416m 1417m  
 PVT 5cm 5cm  
 Circulation Pump Type American SPM Pressure 1500psi  
 Stroke 152 100 4500 12

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type  
 SCORASH Amount Type  
 2 SACB  
 2 SACB  
 BELZAN 2  
 2 PAL  
 ULTRALOC

**SOLIDS CONTROL**  
 Equipment Inlets Under Flow  
 Name Run Density Density Density  
 MUD MATERIALS ADDED  
 Product Amount Type  
 SCORASH 2 SACB  
 BELZAN 2  
 2 PAL  
 ULTRALOC

**TIME LOG**  
 From To Entered Code Details of Operations in Sequence & Remarks  
 00:00 03:00 4:00:19 WASH AND REAM FROM 1398M TO 1416M  
 03:00 07:15 4:00:19 WASH DOWN TOP OF FISH FROM 1416M TO 1417M  
 07:15 07:15 4:00:19 SAFETY MEETING WITH BOTH CREWS  
 07:15 07:30 3:25:19 (FISHING) ROTATE WASH OVER FISH TRY TO LATCH ONTO FISH  
 07:30 12:00 1:50:19 (FISHING) CIRCULATE 8 SWOGLES OUT THEN PULL PIPE OUT OF HOLE FROM 1416M TO 1295M

**SAFETY**  
 Safety Topic MESH MGP

**TOUR 2 SIGNATURE OF DRILLER**

TIM BRODIE

**TOUR 2 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**  
 No Component OD ID Length

**MUD RECORD**  
 Mud Type Water  Oil   
 Time 03:00 06:00  
 Density 1070 1060  
 Funnel Viscosity 425k 425k  
 Fluid Loss 8.5cm 8cm  
 pH 8.5 8.5  
 Location of Sample SWAKER 1417m  
 Depth 1416m 1417m  
 PVT 5cm 5cm  
 Circulation Pump Type American SPM Pressure 1500psi  
 Stroke 152 100 4500 12

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type  
 SCORASH Amount Type  
 2 SACB  
 2 SACB  
 BELZAN 2  
 2 PAL  
 ULTRALOC

**SOLIDS CONTROL**  
 Equipment Inlets Under Flow  
 Name Run Density Density Density  
 MUD MATERIALS ADDED  
 Product Amount Type  
 SCORASH 2 SACB  
 BELZAN 2  
 2 PAL  
 ULTRALOC

**TIME LOG**  
 From To Entered Code Details of Operations in Sequence & Remarks  
 00:00 03:00 4:00:19 WASH AND REAM FROM 1398M TO 1416M  
 03:00 07:15 4:00:19 WASH DOWN TOP OF FISH FROM 1416M TO 1417M  
 07:15 07:15 4:00:19 SAFETY MEETING WITH BOTH CREWS  
 07:15 07:30 3:25:19 (FISHING) ROTATE WASH OVER FISH TRY TO LATCH ONTO FISH  
 07:30 12:00 1:50:19 (FISHING) CIRCULATE 8 SWOGLES OUT THEN PULL PIPE OUT OF HOLE FROM 1416M TO 1295M

**SAFETY**  
 Safety Topic MESH MGP

**TOUR 3 SIGNATURE OF DRILLER**

TIM BRODIE

**TOUR 3 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**  
 No Component OD ID Length

**MUD RECORD**  
 Mud Type Water  Oil   
 Time 03:00 06:00  
 Density 1070 1060  
 Funnel Viscosity 425k 425k  
 Fluid Loss 8.5cm 8cm  
 pH 8.5 8.5  
 Location of Sample SWAKER 1417m  
 Depth 1416m 1417m  
 PVT 5cm 5cm  
 Circulation Pump Type American SPM Pressure 1500psi  
 Stroke 152 100 4500 12

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type  
 SCORASH Amount Type  
 2 SACB  
 2 SACB  
 BELZAN 2  
 2 PAL  
 ULTRALOC

**SOLIDS CONTROL**  
 Equipment Inlets Under Flow  
 Name Run Density Density Density  
 MUD MATERIALS ADDED  
 Product Amount Type  
 SCORASH 2 SACB  
 BELZAN 2  
 2 PAL  
 ULTRALOC

**TIME LOG**  
 From To Entered Code Details of Operations in Sequence & Remarks  
 00:00 03:00 4:00:19 WASH AND REAM FROM 1398M TO 1416M  
 03:00 07:15 4:00:19 WASH DOWN TOP OF FISH FROM 1416M TO 1417M  
 07:15 07:15 4:00:19 SAFETY MEETING WITH BOTH CREWS  
 07:15 07:30 3:25:19 (FISHING) ROTATE WASH OVER FISH TRY TO LATCH ONTO FISH  
 07:30 12:00 1:50:19 (FISHING) CIRCULATE 8 SWOGLES OUT THEN PULL PIPE OUT OF HOLE FROM 1416M TO 1295M

**SAFETY**  
 Safety Topic MESH MGP





**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110226\_1A Vendor Software Version Pason Year 2011 Month 02 Day 26



|  |  |  |                                    |                                      |                                    |
|--|--|--|------------------------------------|--------------------------------------|------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT                         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |                                    |
|  |  |  | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |                                    |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 1      |                      | POLYMER   |           |           | X     |  |     |  |       |  |
| Time   | 03:00                | 06:00     | 10:00     |           |       |  |     |  |       |  |
|        | Density              | 1070kg/m3 | 1060kg/m3 | 1065kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 42s/l     | 42s/l     | 40s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 8.5cm3    | 8cm3      | 8.0cm3    |       |  |     |  |       |  |
|        | Fluid pH             | 8.5       | 8.5       | 8.5       |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                | 1416m     | 1417m     | 1417m     |       |  |     |  |       |  |
|        | PVT                  | 56m3      | 56m3      | 56m3      |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**







**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110228\_1B Vendor Software Version Pason Year 2011 Month 02 Day 28

|  |                                       |  |              |                                    |                                      |
|--|---------------------------------------|--|--------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30W   | Prov<br>NT   | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |                                       | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |
|  |                                       |  |              | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |



Pason

| DRILLING ASSEMBLY |               |         |       |        | DRILLING ASSEMBLY |              |         |       |        | DRILLING ASSEMBLY |              |         |       |        |
|-------------------|---------------|---------|-------|--------|-------------------|--------------|---------|-------|--------|-------------------|--------------|---------|-------|--------|
| TOUR 1            |               |         |       |        | TOUR 1            |              |         |       |        | TOUR 1            |              |         |       |        |
| No                | Component     | OD      | ID    | Length | No                | Component    | OD      | ID    | Length | No                | Component    | OD      | ID    | Length |
| 1                 | BIT           | 222.00  | 64.00 | 0.27   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                 | MOTOR LS      | 165.00  | 0.00  | 8.11   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   |
| 1                 | FLOAT SUB     | 165.00  | 0.00  | 1.11   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                 | ORIENT SUB    | 164.00  | 0.00  | 1.00   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   |
| 1                 | MONEL FLEX    | 159.00  | 81.00 | 9.07   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                 | MONEL FLEX    | 161.00  | 76.00 | 8.67   | 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.66  | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |
| 1                 | MONEL FLEX    | 161.00  | 76.00 | 9.45   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.17   |
| 1                 | X/O           | 164.00  | 69.00 | 0.67   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |
| 3                 | HWDP(4.0 IN)  | 102.00  | 64.00 | 28.14  | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |
| 1                 | JARS-HYD/MECH | 123.00  | 58.00 | 4.94   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   |
| 5                 | HWDP(4.0 IN)  | 102.00  | 64.00 | 46.90  | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |
| 1                 | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.37   | 3                 | HWDP(4.0 IN) | 102.00  | 64.00 | 28.02  | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |
| 1                 | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                 | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.31   | 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |
| 1                 | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.68  | 4                 | HWDP(4.0 IN) | 102.00  | 64.00 | 37.56  |
| 1                 | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.32   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |
| 1                 | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.33   | 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   | 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.78  |
| Drill Pipe        |               | Stands  |       |        | Drill Pipe        |              | Stands  |       |        | Drill Pipe        |              | Stands  |       |        |
| Drill Pipe        |               | Singles |       |        | Drill Pipe        |              | Singles |       |        | Drill Pipe        |              | Singles |       |        |
| Kelly Down        |               |         |       |        | Kelly Down        |              |         |       |        | Kelly Down        |              |         |       |        |
| Total             |               |         |       |        | Total             |              |         |       |        | Total             |              |         |       |        |
| Weight of DC      |               |         |       |        | Weight of DC      |              |         |       |        | Weight of DC      |              |         |       |        |
| Weight of String  |               |         |       |        | Weight of String  |              |         |       |        | Weight of String  |              |         |       |        |

| SPECIAL EVENTS |            |  |       |       |
|----------------|------------|--|-------|-------|
| Tour No.       | Event No.  | Description                              | Time  | Depth |
| 2              | JSA REVIEW | B-45 TRIPPING PIPE IN, B-35 RIG TONG USE | 12:00 |       |
|                |            |  |       |       |
|                |            |  |       |       |
|                |            |  |       |       |
|                |            |  |       |       |
|                |            |  |       |       |

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424 20110228 1B Vendor Software Version Pason Year 2011 Month 02 Day 28

|  |                                       |  |              |                                    |                                      |
|--|---------------------------------------|--|--------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30W   | Prov<br>NT   | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |                                       | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |
|  |                                       |  |              | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |



Pason

| DRILLING ASSEMBLY TOUR 1 |                  |         |       |         | DRILLING ASSEMBLY TOUR 2 |                  |         |       |        | DRILLING ASSEMBLY TOUR 2 |                  |         |       |        |
|--------------------------|------------------|---------|-------|---------|--------------------------|------------------|---------|-------|--------|--------------------------|------------------|---------|-------|--------|
| No                       | Component        | OD      | ID    | Length  | No                       | Component        | OD      | ID    | Length | No                       | Component        | OD      | ID    | Length |
| 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.40    | 1                        | BIT              | 222.00  | 64.00 | 0.27   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.36   |
| 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.39    | 1                        | MOTOR LS         | 165.00  | 0.00  | 8.11   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.38   |
|                          |                  |         |       |         | 1                        | FLOAT SUB        | 165.00  | 0.00  | 1.11   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.39   |
|                          |                  |         |       |         | 1                        | ORIENT SUB       | 164.00  | 0.00  | 1.00   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.35   |
|                          |                  |         |       |         | 1                        | MONEL FLEX       | 159.00  | 81.00 | 9.07   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.34   |
|                          |                  |         |       |         | 1                        | MONEL FLEX       | 161.00  | 76.00 | 8.67   | 2                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 18.66  |
|                          |                  |         |       |         | 1                        | MONEL FLEX       | 161.00  | 76.00 | 9.45   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.35   |
|                          |                  |         |       |         | 1                        | X/O              | 164.00  | 69.00 | 0.67   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.38   |
|                          |                  |         |       |         | 3                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 28.14  | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.36   |
|                          |                  |         |       |         | 1                        | JARS-HYD/MECH    | 123.00  | 58.00 | 4.94   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.37   |
|                          |                  |         |       |         | 5                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 46.90  | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.35   |
|                          |                  |         |       |         | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.37   | 3                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 28.02  |
|                          |                  |         |       |         | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.36   |
|                          |                  |         |       |         | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.31   |
|                          |                  |         |       |         | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.35   | 2                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 18.68  |
|                          |                  |         |       |         | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.32   |
|                          |                  |         |       |         | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.33   | 1                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 9.34   |
| 29                       | Drill Pipe       | Stands  |       | 565.90  |                          | Drill Pipe       | Stands  |       |        |                          | Drill Pipe       | Stands  |       |        |
| 0                        | Drill Pipe       | Singles |       | 0.00    |                          | Drill Pipe       | Singles |       |        |                          | Drill Pipe       | Singles |       |        |
|                          | Kelly Down       |         |       | 0.00    |                          | Kelly Down       |         |       |        |                          | Kelly Down       |         |       |        |
|                          | Total            |         |       | 1170.70 |                          | Total            |         |       |        |                          | Total            |         |       |        |
|                          | Weight of DC     |         |       |         |                          | Weight of DC     |         |       |        |                          | Weight of DC     |         |       |        |
|                          | Weight of String |         |       |         |                          | Weight of String |         |       |        |                          | Weight of String |         |       |        |

**SPECIAL EVENTS**

| Tour No. | Event No. | Description | Time | Depth |
|----------|-----------|-------------|------|-------|
|          |           |             |      |       |
|          |           |             |      |       |
|          |           |             |      |       |
|          |           |             |      |       |
|          |           |             |      |       |
|          |           |             |      |       |
|          |           |             |      |       |
|          |           |             |      |       |
|          |           |             |      |       |
|          |           |             |      |       |

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110228\_1B Vendor Software Version Pason Year 2011 Month 02 Day 28

|  |                                       |  |              |                                    |                                      |
|--|---------------------------------------|--|--------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30W   | Prov<br>NT   | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |                                       | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |
|  |                                       |  |              | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |



Pason

| DRILLING ASSEMBLY |              |         |       |        | TOUR 2           |              |         |       |        | DRILLING ASSEMBLY |                  |    |         |        | TOUR 2 |           |    |    |        | DRILLING ASSEMBLY |           |    |    |        | TOUR |  |  |  |  |
|-------------------|--------------|---------|-------|--------|------------------|--------------|---------|-------|--------|-------------------|------------------|----|---------|--------|--------|-----------|----|----|--------|-------------------|-----------|----|----|--------|------|--|--|--|--|
| No                | Component    | OD      | ID    | Length | No               | Component    | OD      | ID    | Length | No                | Component        | OD | ID      | Length | No     | Component | OD | ID | Length | No                | Component | OD | ID | Length |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   | 1                | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.17   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 4                 | HWDP(4.0 IN) | 102.00  | 64.00 | 37.56  |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 1                 | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| 2                 | HWDP(4.0 IN) | 102.00  | 64.00 | 18.78  |                  |              |         |       |        |                   |                  |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| Drill Pipe        |              | Stands  |       |        | 36               | Drill Pipe   | Stands  |       |        | 685.88            | Drill Pipe       |    | Stands  |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| Drill Pipe        |              | Singles |       |        | 0                | Drill Pipe   | Singles |       |        | 0.00              | Drill Pipe       |    | Singles |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| Kelly Down        |              |         |       |        | Kelly Down       |              |         |       |        | 11.97             | Kelly Down       |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| Total             |              |         |       |        | Total            |              |         |       |        | 1302.65           | Total            |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| Weight of DC      |              |         |       |        | Weight of DC     |              |         |       |        |                   | Weight of DC     |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |
| Weight of String  |              |         |       |        | Weight of String |              |         |       |        | 51.00             | Weight of String |    |         |        |        |           |    |    |        |                   |           |    |    |        |      |  |  |  |  |

| SPECIAL EVENTS |           |             |      |       |
|----------------|-----------|-------------|------|-------|
| Tour No.       | Event No. | Description | Time | Depth |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110228\_1B Vendor Software Version Pason Year 2011 Month 02 Day 28



|  |  |  |                       |                                    |                                      |
|--|--|--|-----------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT            | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ    | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |
|  |  |  | Rig Release Date Time |                                    |                                      |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 2      |                      | POLYMER   |           |           | x     |  |     |  |       |  |
|        | Time                 | 14:00     | 18:00     | 22:45     |       |  |     |  |       |  |
|        | Density              | 1010kg/m3 | 1060kg/m3 | 1010kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 40s/l     | 44s/l     | 45s/l     |       |  |     |  |       |  |
|        | Fluid Loss           |           |           | 15cm3     |       |  |     |  |       |  |
|        | Fluid pH             | 12        | 11.5      | 12        |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                | 1170m     | 1205m     | 1297m     |       |  |     |  |       |  |
|        | PVT                  | 44.1m3    | 43.2m3    | 44.9m3    |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**





**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110301\_1A Vendor Software Version Pason Year 2011 Month 03 Day 01



License No 2073 Well Name PARA ET CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30W Prov NT Loc Type LAT-LONG Unique Well Id 302H036010117300

|  |  |              |   |                                      |
|--|--|--------------|---|--------------------------------------|
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ<br>Spud Date Time<br>2011/02/18 03:00<br>Rig Release Date Time | Re-Entry<br><input type="checkbox"/> |
|--|--|--------------|---|--------------------------------------|



Pason

| TOUR   |                      | MUD TYPE  |  |  |  | WATER |  |  |  | OIL |  |  |  | OTHER |  |  |  |  |
|--------|----------------------|-----------|--|--|--|-------|--|--|--|-----|--|--|--|-------|--|--|--|--|
| 1      |                      | POLYMER   |  |  |  | x     |  |  |  |     |  |  |  |       |  |  |  |  |
| Time   | 04:00                |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
|        | Density              | 1010kg/m3 |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
|        | Funnel Viscosity     | 40s/l     |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
|        | Fluid Loss           | 16cm3     |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
|        | Fluid pH             | 12        |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
|        | Location of Sample   | SHAKER    |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
|        | Depth                |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
| PVT    |                      |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
| Test 1 | Type (Ex: Chlorides) |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
|        | Value                |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
| Test 2 | Type (ex: Sand%)     |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
|        | Value                |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
| Test 3 | Type (ex: Hard Ca)   |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
|        | Value                |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
| Test 4 | Type (ex: Sulfides)  |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |
|        | Value                |           |  |  |  |       |  |  |  |     |  |  |  |       |  |  |  |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110301\_1A Vendor Software Version Pason Year 2011 Month 03 Day 01



|  |  |  |                                    |                                      |                                    |
|--|--|--|------------------------------------|--------------------------------------|------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT                         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |                                    |
|  |  |  | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |                                    |



Pason

TOUR **2** MUD TYPE **POLYMER** WATER  OIL  OTHER

| Time               | 14:00                | 18:00     | 22:15     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1010kg/m3            | 1040kg/m3 | 1040kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 30s/l                | 34s/l     | 37s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         |                      | 16cm3     | 18cm3     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 11                   | 11        | 12        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SHAKER    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              | 1333m                | 1335m     | 1336m     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                | 38.3m3               | 41.7m3    | 52.6m3    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**FRONT PAGE SUMMARY**

License No 2073 Well Name PAPA ET CAMERON 2H-03-HZ  
 Operator PARAMOUNT RESOURCES LTD.  
 Operator's A/E BLANKTON  
 Representative of Operator Representative

Contractor MAHORS DRILLING  
 Contractor's Job No 06473  
 Signature of Contractor's Rig Manager MICHAEL MCKENZIE

Well Sheet Serial Number 306424\_20170102\_1A  
 Surface Location 60.0220 40.6M11V 20.06 20W  
 Vendor Software Version Pason  
 Month 2017  
 Day 02

GAPODC  
 PASON

| CODE   | Rig | Dir   | Mud | Reaming | Coring | Triage | Rig | Rigger | Cut Off | Dew | Welfare | Run Log | What On | Hoops | Up | Test | Disturb | Plug | Squeeze | Fishing | Dr | Safety | Tear | Waiting | Rig | Other | TOTAL | WEATHER |
|--------|-----|-------|-----|---------|--------|--------|-----|--------|---------|-----|---------|---------|---------|-------|----|------|---------|------|---------|---------|----|--------|------|---------|-----|-------|-------|---------|
|        |     |       |     |         |        |        |     |        |         |     |         |         |         |       |    |      |         |      |         |         |    |        |      |         |     |       |       |         |
| Hour 1 | 1   | 11:50 |     |         |        |        |     |        |         |     |         |         |         |       |    |      |         |      |         |         |    |        |      |         |     |       |       |         |
| Hour 2 | 2   | 10:15 |     |         |        |        |     |        |         |     |         |         |         |       |    |      |         |      |         |         |    |        |      |         |     |       |       |         |
| Hour 3 | 3   | 22:25 |     |         |        |        |     |        |         |     |         |         |         |       |    |      |         |      |         |         |    |        |      |         |     |       |       |         |
| Total  |     |       |     |         |        |        |     |        |         |     |         |         |         |       |    |      |         |      |         |         |    |        |      |         |     |       |       |         |

**TOUR 1** SIGNATURE OF DRILLER **DRILLING ASSEMBLY** MUD RECORD DEVIATION SURVEYS SOLIDS CONTROL MUD MATERIALS ADDED TIME LOG SAFETY

**TOUR 1** SIGNATURE OF DRILLER **DRILLING ASSEMBLY**

**MUD RECORD**

**DEVIATION SURVEYS**

**SOLIDS CONTROL**

**MUD MATERIALS ADDED**

**TIME LOG**

**SAFETY**

**TOUR 2** SIGNATURE OF DRILLER **DRILLING ASSEMBLY** MUD RECORD DEVIATION SURVEYS SOLIDS CONTROL MUD MATERIALS ADDED TIME LOG SAFETY

**TOUR 2** SIGNATURE OF DRILLER **DRILLING ASSEMBLY**

**MUD RECORD**

**DEVIATION SURVEYS**

**SOLIDS CONTROL**

**MUD MATERIALS ADDED**

**TIME LOG**

**SAFETY**

**TOUR 3** SIGNATURE OF DRILLER **DRILLING ASSEMBLY** MUD RECORD DEVIATION SURVEYS SOLIDS CONTROL MUD MATERIALS ADDED TIME LOG SAFETY

**TOUR 3** SIGNATURE OF DRILLER **DRILLING ASSEMBLY**

**MUD RECORD**

**DEVIATION SURVEYS**

**SOLIDS CONTROL**

**MUD MATERIALS ADDED**

**TIME LOG**

**SAFETY**



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No: 0X8424\_20110302\_1A  
 Vendor Software Version: Pason  
 Year: 2011 Month: 03 Day: 02



|  |  |  |                    |                                      |                                    |
|--|--|--|--------------------|--------------------------------------|------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Re-Entry<br><input type="checkbox"/> |                                    |
|  |  | Spud Date Time<br>2011/02/18 03:00             |                    | Rig Release Date Time                |                                    |



Pason

**TOUR 1 MUD TYPE POLYHMER WATER x OIL OTHER**

| Time               | 02:00                | 06:00     | 10:00     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1050kg/m3            | 1060kg/m3 | 1060kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 40s/l                | 42s/l     | 40s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         | 16cm3                | 13cm3     | 11.5cm3   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 12                   | 12        | 12        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SHAKER    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              | 1339m                | 1343m     | 1366m     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                | 53.7m3               | 55.1m3    | 56.2m3    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110302\_1A Vendor Software Version Pason Year 2011 Month 03 Day 02



|  |  |  |                       |                                    |                                      |
|--|--|--|-----------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT            | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ    | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |
|  |  |  | Rig Release Date Time |                                    |                                      |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 2      |                      | POLYMER   |           |           | x     |  |     |  |       |  |
| Time   | 14:00                | 18:00     | 20:30     |           |       |  |     |  |       |  |
|        | Density              | 1080kg/m3 | 1080kg/m3 | 1060kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 43s/l     | 40s/l     | 45s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 10cm3     | 9.0cm3    | 9.5cm3    |       |  |     |  |       |  |
|        | Fluid pH             | 12        | 12        | 11        |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                | 1390m     | 1398m     | 1402m     |       |  |     |  |       |  |
|        | PVT                  | 57.1m3    | 57.0m3    | 56.7m3    |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

FRONT PAGE SUMMARY

License No 2073 PMAA ET CAMERON 24-00 HZ
Operator PMAAMOUNT RESOURCES LTD
Operator's A/E TONY HOOVER

Your Sheet Serial Number 20710002.1A
Surface Location 60 02 20 40N 117 20 00 E 20W
Contractor MABORS DRILLING

DAILY CHECKS
1) Drill Water Control Inspection (Using Check List)
2) HSE Site Induction
3) HSE Licence & Sign Out/Sign In



Table with columns: CODE, Rig No, Drift, Remaining, Coring, & C.R.C., Turns, Rig, Repet, Out Of, Dew, Wetness, Par Cog, What On, Hoop Up, Test, Disturb, Plug, Square, Fishing, DR, Safety, Tar, Waiting, Rig, Other, TOTAL. Includes a WEATHER section at the bottom right.

TOUR 1 SIGNATURE OF DRILLER

WADE STEVENSON

START TIME 09:00

END TIME 12:00

TOUR 1 SIGNATURE OF DRILLER form containing: DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.

TOUR 2 SIGNATURE OF DRILLER

TIM BRIDGE

START TIME 12:00

END TIME 24:00

TOUR 2 SIGNATURE OF DRILLER form containing: DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.

TOUR 3 SIGNATURE OF DRILLER

START TIME

END TIME

TOUR 3 SIGNATURE OF DRILLER form containing: DRILLING ASSEMBLY, MUD RECORD, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110303\_1A Vendor Software Version Pason Year 2011 Month 03 Day 03



|  |  |  |                       |                                    |                                      |
|--|--|--|-----------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT            | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ    | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |
|  |  |  | Rig Release Date Time |                                    |                                      |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 1      |                      | POLYMER   |           |           | x     |  |     |  |       |  |
| Time   | 02:00                | 06:00     | 10:00     |           |       |  |     |  |       |  |
|        | Density              | 1100kg/m3 | 1110kg/m3 | 1110kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 47s/l     | 48s/l     | 45s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 9cm3      | 9cm3      | 10cm3     |       |  |     |  |       |  |
|        | Fluid pH             | 11        | 10.5      | 11        |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                | 1420m     | 1428m     | 1453m     |       |  |     |  |       |  |
|        | PVT                  | 57.3m3    | 57.6m3    | 56.74m3   |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No: 0X8424\_20110303\_1A  
 Vendor Software Version: Pason  
 Year: 2011 Month: 03 Day: 03



License No: 2073 Well Name: PARA ET CAMERON 2H-03 HZ  
 Surface Location: 60:02:20.40N/117:30:06.30W  
 Prov: NT Loc Type: LAT-LONG Unique Well Id: 302H036010117300

|  |  |              |   |                                      |
|--|--|--------------|---|--------------------------------------|
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ<br>Spud Date Time<br>2011/02/18 03:00<br>Rig Release Date Time | Re-Entry<br><input type="checkbox"/> |
|--|--|--------------|---|--------------------------------------|



Pason

TOUR **2** MUD TYPE **POLYMER** WATER  OIL  OTHER

| Time               | 14:00                | 18:00     | 20:00     | 23:00     |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1100kg/m3            | 1100kg/m3 | 1100kg/m3 | 1105kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 48s/l                | 47s/l     | 46s/l     | 48s/l     |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         | 11cm3                | 8.0cm3    | 8cm3      | 8cm3      |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 9.5                  | 10.5      | 10        | 10        |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SHAKER    | SHAKER    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              | 1460m                | 1479m     | 1480m     | 1496m     |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                | 59m3                 | 53.8m3    | 53.5m3    | 52.3m3    |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**FRONT PAGE SUMMARY**

License No 2073 Well Name PAXA ET CAEHRON 24-10-14Z  
 Operator PAXAMOUNT RESOURCES LTD  
 Operator's A/E 101110009  
 101110009  
 Name of Operator Representative BLANSTON

Your Sheet Serial Number 3444\_2011004\_1\_A  
 Surface Location 60.02.20.40N117.30.06.W0W  
 Vendor Software Version Paxon  
 Prov LAT-LONG 2020-00-01017290  
 Loc Type Unique Well ID  
 Well Name LAT-LONG 2011004 0300  
 Rig No 24  
 Hourz  
 Send Date Time 20110218 0300  
 Signature of Contractor's Rig Manager MICHAEL WILSON

Contractor MAJORIS DRILLING  
 Contractor's Job No 0474  
 Signature of Contractor's Rig Manager MICHAEL WILSON

OP RM  
 1) Don't wear loose clothing (Jeans Check List)  
 2) Don't drink alcohol  
 3) Don't use mobile phone  
 4) Wear Laces & Steel Toed Shoes  
 5) Don't use mobile phone  
 6) Don't use mobile phone  
 7) Heavy Lifting - Heavy Lifting & Operator Lifting  
 8) Don't use mobile phone  
 9) Don't use mobile phone  
 10) Don't use mobile phone  
 11) Don't use mobile phone  
 12) Don't use mobile phone  
 13) Don't use mobile phone  
 14) Don't use mobile phone  
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 16) Don't use mobile phone  
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 29) Don't use mobile phone  
 30) Don't use mobile phone  
 31) Don't use mobile phone  
 32) Don't use mobile phone  
 33) Don't use mobile phone  
 34) Don't use mobile phone  
 35) Don't use mobile phone  
 36) Don't use mobile phone  
 37) Don't use mobile phone  
 38) Don't use mobile phone  
 39) Don't use mobile phone  
 40) Don't use mobile phone  
 Paxon

| CODE   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL |
|--------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| Hour 1 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
| Hour 2 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
| Hour 3 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
| Total  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |

**WEATHER**

|            |         |
|------------|---------|
| Temp       | 13.00   |
| Humidity   | 0.00    |
| Wind Speed | 0.00    |
| Wind Dir   | 0.00    |
| Pressure   | 1013.25 |
| Clouds     | 0.00    |
| Visibility | 10.00   |
| UV Index   | 0.00    |

**TOUR 1 SIGNATURE OF DRILLER** WAIVE STEVENSON

**DRILLING ASSEMBLY**

|                   |        |             |           |        |        |
|-------------------|--------|-------------|-----------|--------|--------|
| BI Number         | 5      | No          | Component | OD ID  | Length |
| Size              | 222    | Bit         | 222       | 64     | 0.27m  |
| LLOC Code         | 4      | 3           | 7         | 1      | 3      |
| Manufacturer      | BEED   | BEED        | BEED      | BEED   | BEED   |
| Type              | FOAMAP | FOAMAP      | FOAMAP    | FOAMAP | FOAMAP |
| Serial No         | JSS64Z | JSS64Z      | JSS64Z    | JSS64Z | JSS64Z |
| Jobs              | 12.7   | 12.7        | 12.7      | 12.7   | 12.7   |
| Depth Out (m)     | 1534   | MANDEL FLEX | 151       | 76     | 8.67m  |
| Depth in (m)      | 1333   | MANDEL FLEX | 151       | 76     | 9.45m  |
| Total Drilled (m) | 201    | MANDEL FLEX | 151       | 76     | 9.45m  |
| Run Today         | 7.50   | MANDEL FLEX | 151       | 76     | 9.45m  |
| Comulative Run    | 67.50  | MANDEL FLEX | 151       | 76     | 9.45m  |

**HOLE CONDITION**

Weight of DC 1000kg  
 Weight of String 520kg

**REDUCED PUMP SPEED**

Mud Type Water  Oil   
 Mud Density 1110  
 Mud Viscosity 1110  
 Mud Loss 520  
 Mud Solids 520

**DEVIATION SURVEYS**

| Time  | Depth | Direction | Type        | Amount | Type |
|-------|-------|-----------|-------------|--------|------|
| 11:30 | 1110  | 11.30     | DIRECTIONAL | 1      | SACK |
| 11:30 | 1110  | 11.30     | DIRECTIONAL | 20     | SACK |
| 11:30 | 1110  | 11.30     | DIRECTIONAL | 2      | PAL  |

**MUD MATERIALS ADDED**

| Product  | Amount | Type |
|----------|--------|------|
| KEIZAN   | 1      | SACK |
| CAUSTIC  | 20     | SACK |
| ULTRALOC | 2      | PAL  |

**SOLIDS CONTROL**

| Equipment | Hours | Intake | Over Flow | Under Flow |
|-----------|-------|--------|-----------|------------|
| Shaker    | 10    | 10.0   | 10.0      | 10.0       |
| Shaker    | 10    | 10.0   | 10.0      | 10.0       |

**TIME LOG**

| From  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks         |
|-------|-------|---------|------|---|
| 00:00 | 02:00 | 2:00    | 2000 | DRILL 222MM HOLE FROM 1500M TO 1511M                |
| 02:00 | 02:15 | 0:15    | 4752 | RIG SERVICE FUNCTION PIPE RAMMS 3 SECONDS TO CL OSE |
| 02:15 | 02:30 | 0:15    | 4752 | DRILL 222MM HOLE FROM 1511M TO 1524M                |
| 02:30 | 02:45 | 0:15    | 0251 | SAFETY MEETING WITH BOTH OPERATORS                  |
| 02:45 | 03:00 | 0:15    | 1524 | DRILL 222MM HOLE FROM 1524M TO 1527M                |
| 03:00 | 03:15 | 0:15    | 1527 | PULL 1527MM HOLE FROM 1527M TO 1524M                |
| 03:15 | 03:30 | 0:15    | 1524 | PULL 1524MM HOLE FROM 1524M TO 1521M                |
| 03:30 | 03:45 | 0:15    | 1521 | PULL 1521MM HOLE FROM 1521M TO 1518M                |
| 03:45 | 04:00 | 0:15    | 1518 | PULL 1518MM HOLE FROM 1518M TO 1515M                |
| 04:00 | 04:15 | 0:15    | 1515 | PULL 1515MM HOLE FROM 1515M TO 1512M                |
| 04:15 | 04:30 | 0:15    | 1512 | PULL 1512MM HOLE FROM 1512M TO 1509M                |
| 04:30 | 04:45 | 0:15    | 1509 | PULL 1509MM HOLE FROM 1509M TO 1506M                |
| 04:45 | 05:00 | 0:15    | 1506 | PULL 1506MM HOLE FROM 1506M TO 1503M                |
| 05:00 | 05:15 | 0:15    | 1503 | PULL 1503MM HOLE FROM 1503M TO 1499M                |
| 05:15 | 05:30 | 0:15    | 1499 | PULL 1499MM HOLE FROM 1499M TO 1496M                |
| 05:30 | 05:45 | 0:15    | 1496 | PULL 1496MM HOLE FROM 1496M TO 1493M                |
| 05:45 | 06:00 | 0:15    | 1493 | PULL 1493MM HOLE FROM 1493M TO 1490M                |
| 06:00 | 06:15 | 0:15    | 1490 | PULL 1490MM HOLE FROM 1490M TO 1487M                |
| 06:15 | 06:30 | 0:15    | 1487 | PULL 1487MM HOLE FROM 1487M TO 1484M                |
| 06:30 | 06:45 | 0:15    | 1484 | PULL 1484MM HOLE FROM 1484M TO 1481M                |
| 06:45 | 07:00 | 0:15    | 1481 | PULL 1481MM HOLE FROM 1481M TO 1478M                |
| 07:00 | 07:15 | 0:15    | 1478 | PULL 1478MM HOLE FROM 1478M TO 1475M                |
| 07:15 | 07:30 | 0:15    | 1475 | PULL 1475MM HOLE FROM 1475M TO 1472M                |
| 07:30 | 07:45 | 0:15    | 1472 | PULL 1472MM HOLE FROM 1472M TO 1469M                |
| 07:45 | 08:00 | 0:15    | 1469 | PULL 1469MM HOLE FROM 1469M TO 1466M                |
| 08:00 | 08:15 | 0:15    | 1466 | PULL 1466MM HOLE FROM 1466M TO 1463M                |
| 08:15 | 08:30 | 0:15    | 1463 | PULL 1463MM HOLE FROM 1463M TO 1460M                |
| 08:30 | 08:45 | 0:15    | 1460 | PULL 1460MM HOLE FROM 1460M TO 1457M                |
| 08:45 | 09:00 | 0:15    | 1457 | PULL 1457MM HOLE FROM 1457M TO 1454M                |
| 09:00 | 09:15 | 0:15    | 1454 | PULL 1454MM HOLE FROM 1454M TO 1451M                |
| 09:15 | 09:30 | 0:15    | 1451 | PULL 1451MM HOLE FROM 1451M TO 1448M                |
| 09:30 | 09:45 | 0:15    | 1448 | PULL 1448MM HOLE FROM 1448M TO 1445M                |
| 09:45 | 10:00 | 0:15    | 1445 | PULL 1445MM HOLE FROM 1445M TO 1442M                |
| 10:00 | 10:15 | 0:15    | 1442 | PULL 1442MM HOLE FROM 1442M TO 1439M                |
| 10:15 | 10:30 | 0:15    | 1439 | PULL 1439MM HOLE FROM 1439M TO 1436M                |
| 10:30 | 10:45 | 0:15    | 1436 | PULL 1436MM HOLE FROM 1436M TO 1433M                |
| 10:45 | 11:00 | 0:15    | 1433 | PULL 1433MM HOLE FROM 1433M TO 1430M                |
| 11:00 | 11:15 | 0:15    | 1430 | PULL 1430MM HOLE FROM 1430M TO 1427M                |
| 11:15 | 11:30 | 0:15    | 1427 | PULL 1427MM HOLE FROM 1427M TO 1424M                |
| 11:30 | 11:45 | 0:15    | 1424 | PULL 1424MM HOLE FROM 1424M TO 1421M                |
| 11:45 | 12:00 | 0:15    | 1421 | PULL 1421MM HOLE FROM 1421M TO 1418M                |

**TOUR 2 SIGNATURE OF DRILLER** T.M. BRIDGE

**DRILLING ASSEMBLY**

|                   |        |             |           |        |        |
|-------------------|--------|-------------|-----------|--------|--------|
| BI Number         | 5      | No          | Component | OD ID  | Length |
| Size              | 222    | Bit         | 222       | 64     | 0.27m  |
| LLOC Code         | 4      | 3           | 7         | 1      | 3      |
| Manufacturer      | BEED   | BEED        | BEED      | BEED   | BEED   |
| Type              | FOAMAP | FOAMAP      | FOAMAP    | FOAMAP | FOAMAP |
| Serial No         | JSS64Z | JSS64Z      | JSS64Z    | JSS64Z | JSS64Z |
| Jobs              | 12.7   | 12.7        | 12.7      | 12.7   | 12.7   |
| Depth Out (m)     | 1534   | MANDEL FLEX | 151       | 76     | 8.67m  |
| Depth in (m)      | 1333   | MANDEL FLEX | 151       | 76     | 9.45m  |
| Total Drilled (m) | 201    | MANDEL FLEX | 151       | 76     | 9.45m  |
| Run Today         | 0.00   | MANDEL FLEX | 151       | 76     | 9.45m  |
| Comulative Run    | 67.50  | MANDEL FLEX | 151       | 76     | 9.45m  |

**HOLE CONDITION**

Weight of DC 1000kg  
 Weight of String 520kg

**REDUCED PUMP SPEED**

Mud Type Water  Oil   
 Mud Density 1110  
 Mud Viscosity 1110  
 Mud Loss 520  
 Mud Solids 520

**DEVIATION SURVEYS**

| Time  | Depth | Direction | Type        | Amount | Type |
|-------|-------|-----------|-------------|--------|------|
| 12:00 | 1110  | 12.00     | DIRECTIONAL | 1      | SACK |
| 12:00 | 1110  | 12.00     | DIRECTIONAL | 20     | SACK |
| 12:00 | 1110  | 12.00     | DIRECTIONAL | 2      | PAL  |

**MUD MATERIALS ADDED**

| Product  | Amount | Type |
|----------|--------|------|
| KEIZAN   | 1      | SACK |
| GEL      | 20     | SACK |
| ULTRALOC | 30     | PAL  |
| BENTON   | 30     | PAL  |
| DESCO    | 1      | SACK |

**SOLIDS CONTROL**

| Equipment | Hours | Intake | Over Flow | Under Flow |
|-----------|-------|--------|-----------|------------|
| Shaker    | 10    | 10.0   | 10.0      | 10.0       |
| Shaker    | 10    | 10.0   | 10.0      | 10.0       |

**TIME LOG**

| From  | To    | Elapsed | Code | Details of Operations in Sequence & Remarks |
|-------|-------|---------|------|---|
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1500M TO 1511M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1511M TO 1524M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1524M TO 1534M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1534M TO 1544M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1544M TO 1554M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1554M TO 1564M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1564M TO 1574M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1574M TO 1584M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1584M TO 1594M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1594M TO 1604M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1604M TO 1614M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1614M TO 1624M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1624M TO 1634M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1634M TO 1644M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1644M TO 1654M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1654M TO 1664M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1664M TO 1674M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1674M TO 1684M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1684M TO 1694M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1694M TO 1704M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1704M TO 1714M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1714M TO 1724M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1724M TO 1734M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1734M TO 1744M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1744M TO 1754M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1754M TO 1764M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1764M TO 1774M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1774M TO 1784M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1784M TO 1794M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1794M TO 1804M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1804M TO 1814M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1814M TO 1824M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1824M TO 1834M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1834M TO 1844M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1844M TO 1854M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1854M TO 1864M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1864M TO 1874M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1874M TO 1884M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1884M TO 1894M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1894M TO 1904M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1904M TO 1914M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1914M TO 1924M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1924M TO 1934M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1934M TO 1944M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1944M TO 1954M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1954M TO 1964M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1964M TO 1974M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1974M TO 1984M        |
| 12:00 | 12:00 | 0:00    | 1000 | DRILL 222MM HOLE FROM 1984M TO 1994M        |
| 12    |       |         |      |   |

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

|   |   |  |                    |                                      |                                    |
|---|---|--|--------------------|--------------------------------------|------------------------------------|
| Tour Sheet Serial No<br>0X8424_20110304_1A            | Vendor Software Version<br>Pason                        | Year<br>2011                                   | Month<br>03        | Day<br>04                            |                                    |
| License No<br>2073                                    | Well Name<br>PARA ET CAMERON 2H-03 HZ                   | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.                  | Contractor<br>NABORS DRILLING                           | Rig No<br>24                                   | Well Type<br>HORIZ | Re-Entry<br><input type="checkbox"/> |                                    |
| Operator's AFE<br>10N110009                           | Contractor's Job No<br>C6473                            | Spud Date Time<br>2011/02/18 03:00             |                    | Rig Release Date Time                |                                    |
| Signature of Operator Representative<br>JOSH BLINSTON | Signature of Contractor's Rig Manager<br>MICHAEL NUGENT |  |                    |                                      |                                    |



Pason

| DRILLING ASSEMBLY TOUR 1 |                  |         |       |         | DRILLING ASSEMBLY TOUR 2 |                  |         |       |         | DRILLING ASSEMBLY TOUR |                  |         |    |        |
|--------------------------|------------------|---------|-------|---------|--------------------------|------------------|---------|-------|---------|------------------------|------------------|---------|----|--------|
| No                       | Component        | OD      | ID    | Length  | No                       | Component        | OD      | ID    | Length  | No                     | Component        | OD      | ID | Length |
| 1                        | BIT              | 222.00  | 64.00 | 0.27    | 1                        | BIT              | 222.00  | 64.00 | 0.27    |                        |                  |         |    |        |
| 1                        | MOTOR LS         | 165.00  | 0.00  | 8.11    | 1                        | MOTOR LS         | 165.00  | 0.00  | 8.11    |                        |                  |         |    |        |
| 1                        | FLOAT SUB        | 165.00  | 0.00  | 1.11    | 1                        | FLOAT SUB        | 165.00  | 0.00  | 1.11    |                        |                  |         |    |        |
| 1                        | ORIENT SUB       | 164.00  | 0.00  | 1.00    | 1                        | ORIENT SUB       | 164.00  | 0.00  | 1.00    |                        |                  |         |    |        |
| 1                        | MONEL FLEX       | 159.00  | 81.00 | 9.07    | 1                        | MONEL FLEX       | 159.00  | 81.00 | 9.07    |                        |                  |         |    |        |
| 1                        | MONEL FLEX       | 161.00  | 76.00 | 8.67    | 1                        | MONEL FLEX       | 161.00  | 76.00 | 8.67    |                        |                  |         |    |        |
| 1                        | MONEL FLEX       | 161.00  | 76.00 | 9.45    | 1                        | MONEL FLEX       | 161.00  | 76.00 | 9.45    |                        |                  |         |    |        |
| 1                        | X/O              | 164.00  | 69.00 | 0.67    | 1                        | X/O              | 164.00  | 69.00 | 0.67    |                        |                  |         |    |        |
| 6                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 56.28   | 6                        | HWDP(4.0 IN)     | 102.00  | 64.00 | 56.28   |                        |                  |         |    |        |
| 1                        | JARS-HYD/MECH    | 123.00  | 58.00 | 4.94    | 1                        | JARS-HYD/MECH    | 123.00  | 58.00 | 4.94    |                        |                  |         |    |        |
| 54                       | HWDP(4.0 IN)     | 102.00  | 64.00 | 505.23  | 54                       | HWDP(4.0 IN)     | 102.00  | 64.00 | 505.23  |                        |                  |         |    |        |
|                          |                  |         |       |         |                          |                  |         |       |         |                        |                  |         |    |        |
|                          |                  |         |       |         |                          |                  |         |       |         |                        |                  |         |    |        |
|                          |                  |         |       |         |                          |                  |         |       |         |                        |                  |         |    |        |
|                          |                  |         |       |         |                          |                  |         |       |         |                        |                  |         |    |        |
|                          |                  |         |       |         |                          |                  |         |       |         |                        |                  |         |    |        |
|                          |                  |         |       |         |                          |                  |         |       |         |                        |                  |         |    |        |
|                          |                  |         |       |         |                          |                  |         |       |         |                        |                  |         |    |        |
|                          |                  |         |       |         |                          |                  |         |       |         |                        |                  |         |    |        |
| 48                       | Drill Pipe       | Stands  |       | 913.92  | 48                       | Drill Pipe       | Stands  |       | 913.92  |                        | Drill Pipe       | Stands  |    |        |
| 1                        | Drill Pipe       | Singles |       | 9.60    | 1                        | Drill Pipe       | Singles |       | 9.60    |                        | Drill Pipe       | Singles |    |        |
|                          | Kelly Down       |         |       | 5.68    |                          | Kelly Down       |         |       | 5.68    |                        | Kelly Down       |         |    |        |
|                          | Total            |         |       | 1534.00 |                          | Total            |         |       | 1534.00 |                        | Total            |         |    |        |
|                          | Weight of DC     |         |       | 100.00  |                          | Weight of DC     |         |       | 100.00  |                        | Weight of DC     |         |    |        |
|                          | Weight of String |         |       | 52.00   |                          | Weight of String |         |       | 52.00   |                        | Weight of String |         |    |        |

| SPECIAL EVENTS |            |   |       |       |
|----------------|------------|---|-------|-------|
| Tour No.       | Event No.  | Description                                       | Time  | Depth |
| 1              | JSA REVIEW | A-50 LOAD GREASE GUN, C-09 DRIFTING CASING        | 00:00 |       |
| 2              | JSA REVIEW | B-39 CLEANING TOOL JOINTS, B-44 TRIPPING PIPE OUT | 12:00 |       |
|                |            |   |       |       |
|                |            |   |       |       |
|                |            |   |       |       |

**FRONT PAGE SUMMARY**

License No 2073 Well Name PAPA ET CAMERON 2H-03 HZ  
 Operator PAPA/MOUNTAIN RESOURCES LTD  
 Operator's A/E 101110000  
 Name of Operator Representative BLANCKTON

Four Sheet Serial Number 200424\_2011000\_1A  
 Surface Location 60.02.20.40N17.20.00.W0W  
 Vendor Software Version Pason  
 Prov NT  
 Loc Type LAT:LONG 3020-H05010117300  
 Rig No H0912  
 Well Type 24  
 Spud Date Time 20110219 00:00  
 Rig Release Date Time

Year 2011  
 Month 03  
 Day 05  
 1) 100% Well Record Inspection (Daily Check Log)  
 2) 100% Spm Tested if Required  
 3) 100% Spm Tested if Required  
 4) Well Location & Spud Diagrams Printed  
 5) 100% Spm Tested if Required  
 6) 100% Spm Tested if Required  
 7) Weekly Wellhead Report - Item Lines & Depressur Lines  
 8) 100% Spm Tested if Required  
 9) 100% Spm Tested if Required  
 10) 100% Spm Tested if Required  
 11) Rig Site Health & Safety Meeting (pre-start/turnout)  
 12) 100% Spm Tested if Required  
 13) 100% Spm Tested if Required  
 14) 100% Spm Tested if Required  
 15) 100% Spm Tested if Required

| Hour   | Drill | Remaining | Conc Kind     | Types | Rig | Repair | Cut Off | Down  | Wash  | Run Dog | What On | Test  | Disassemble | Plug  | Squeeze | Relief | Dr   | Safety | Tear | Waiting | Rig  | Other | TOTAL |
|--------|-------|-----------|---------------|-------|-----|--------|---------|-------|-------|---------|---------|-------|-------------|-------|---------|--------|------|--------|------|---------|------|-------|-------|
| Hour 1 | 10    | 4:15      | Coring & Circ | 5.00  | 64  | 0.00   | 1110    | 10.00 | 10.00 | 10.00   | 10.00   | 10.00 | 10.00       | 10.00 | 10.00   | 10.00  | 0.25 | 0.25   | 0.25 | 0.25    | 0.25 | 0.25  | 2.00  |
| Hour 2 | 10    | 7:00      |               | 3.00  | 64  | 0.00   | 1110    | 10.00 | 10.00 | 10.00   | 10.00   | 10.00 | 10.00       | 10.00 | 10.00   | 10.00  | 0.25 | 0.25   | 0.25 | 0.25    | 0.25 | 0.25  | 2.00  |
| Hour 3 | 10    | 11:15     |               | 1.00  | 64  | 0.00   | 1110    | 10.00 | 10.00 | 10.00   | 10.00   | 10.00 | 10.00       | 10.00 | 10.00   | 10.00  | 0.25 | 0.25   | 0.25 | 0.25    | 0.25 | 0.25  | 2.00  |
| Total  |       |           |               | 8.00  | 192 | 0.00   | 3330    | 30.00 | 30.00 | 30.00   | 30.00   | 30.00 | 30.00       | 30.00 | 30.00   | 30.00  | 0.75 | 0.75   | 0.75 | 0.75    | 0.75 | 0.75  | 24.00 |

**OP RM**

| Item               | Qty          | Unit   | Price  | Total           |
|--------------------|--------------|--------|--------|-----------------|
| FUEL @ 08500 HOURS | 24.00        | litres | \$8.00 | \$192.00        |
| Other              |              |        |        |                 |
| <b>TOTAL</b>       | <b>24.00</b> |        |        | <b>\$192.00</b> |

Person Pason



**TOUR 1 SIGNATURE OF DRILLER**

WAGE STEVENSON

**DRILLING ASSEMBLY**

BR Number 222  
 Size 5 3/7  
 LADC Code REED  
 Manufacturer REED  
 Type H-13049  
 Serial No E02956

No Component 00 ID Length  
 Bit 222 64 0.28m  
 Bit Sub X02 102 64 0.66m  
 Bit Sub X03 158 64 0.66m  
 H400P14.0 N1 102 64 0.93m  
 H400P14.0 N1 102 64 0.93m  
 H400P14.0 N1 102 64 0.93m  
 H400P14.0 N1 102 64 0.93m  
 H400P14.0 N1 102 64 0.93m  
 H400P14.0 N1 102 64 0.93m

Time 11:00  
 Density 1.110  
 Funnel Viscosity 6341  
 Fluid Loss 10.0cm  
 pH 10.0  
 Location of Sample 132m  
 Depth 132m  
 PVT 4.8 Inad  
 Circulation Pump Type New Size 50PM Pressure 10000 kPa  
 Type 152 114 7000 12

Remarks  
 Deviation Surveys  
 Time Depth Deviation Direction Type  
 19.00 132m 0.00m 0.00m 0.00m  
 Solids Control  
 Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density  
 MUD MATERIALS ADDED  
 Product Amount Type

**TOUR 2 SIGNATURE OF DRILLER**

TIM BRUCE

**DRILLING ASSEMBLY**

BR Number 222  
 Size 5 3/7  
 LADC Code REED  
 Manufacturer REED  
 Type H-13049  
 Serial No E02956

No Component 00 ID Length  
 Bit 222 64 0.28m  
 Bit Sub X02 102 64 0.66m  
 Bit Sub X03 158 64 0.66m  
 H400P14.0 N1 102 64 0.93m  
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 H400P14.0 N1 102 64 0.93m

Time 11:00  
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Remarks  
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 19.00 132m 0.00m 0.00m 0.00m  
 Solids Control  
 Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density  
 MUD MATERIALS ADDED  
 Product Amount Type

**TOUR 3 SIGNATURE OF DRILLER**

TIM BRUCE

**DRILLING ASSEMBLY**

BR Number 222  
 Size 5 3/7  
 LADC Code REED  
 Manufacturer REED  
 Type H-13049  
 Serial No E02956

No Component 00 ID Length  
 Bit 222 64 0.28m  
 Bit Sub X02 102 64 0.66m  
 Bit Sub X03 158 64 0.66m  
 H400P14.0 N1 102 64 0.93m  
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 H400P14.0 N1 102 64 0.93m

Time 11:00  
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 19.00 132m 0.00m 0.00m 0.00m  
 Solids Control  
 Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density  
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**TOUR 1 SIGNATURE OF DRILLER**

WAGE STEVENSON

**DRILLING ASSEMBLY**

BR Number 222  
 Size 5 3/7  
 LADC Code REED  
 Manufacturer REED  
 Type H-13049  
 Serial No E02956

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 19.00 132m 0.00m 0.00m 0.00m  
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 Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density  
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 Product Amount Type

**TOUR 2 SIGNATURE OF DRILLER**

TIM BRUCE

**DRILLING ASSEMBLY**

BR Number 222  
 Size 5 3/7  
 LADC Code REED  
 Manufacturer REED  
 Type H-13049  
 Serial No E02956

No Component 00 ID Length  
 Bit 222 64 0.28m  
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**TOUR 1 SIGNATURE OF DRILLER**

WAGE STEVENSON

**DRILLING ASSEMBLY**

BR Number 222  
 Size 5 3/7  
 LADC Code REED  
 Manufacturer REED  
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 Serial No E02956

No Component 00 ID Length  
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 Time Depth Deviation Direction Type  
 19.00 132m 0.00m 0.00m 0.00m  
 Solids Control  
 Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density  
 MUD MATERIALS ADDED  
 Product Amount Type

**TOUR 2 SIGNATURE OF DRILLER**

TIM BRUCE

**DRILLING ASSEMBLY**

BR Number 222  
 Size 5 3/7  
 LADC Code REED  
 Manufacturer REED  
 Type H-13049  
 Serial No E02956

No Component 00 ID Length  
 Bit 222 64 0.28m  
 Bit Sub X02 102 64 0.66m  
 Bit Sub X03 158 64 0.66m  
 H400P14.0 N1 102 64 0.93m  
 H400P14.0 N1 102 64 0.93m  
 H400P14.0 N1 102 64 0.93m  
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 H400P14.0 N1 102 64 0.93m  
 H400P14.0 N1 102 64 0.93m

Time 11:00  
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 pH 10.0  
 Location of Sample 132m  
 Depth 132m  
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 Circulation Pump Type New Size 50PM Pressure 10000 kPa  
 Type 152 114 7000 12

Remarks  
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 Time Depth Deviation Direction Type  
 19.00 132m 0.00m 0.00m 0.00m  
 Solids Control  
 Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density  
 MUD MATERIALS ADDED  
 Product Amount Type

**TOUR 3 SIGNATURE OF DRILLER**

TIM BRUCE

**DRILLING ASSEMBLY**

BR Number 222  
 Size 5 3/7  
 LADC Code REED  
 Manufacturer REED  
 Type H-13049  
 Serial No E02956

No Component 00 ID Length  
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 19.00 132m 0.00m 0.00m 0.00m  
 Solids Control  
 Equipment Name Hours Run Intake Density Over Flow Density Under Flow Density  
 MUD MATERIALS ADDED  
 Product Amount Type



**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

|   |   |  |                    |                                      |                                    |
|---|---|--|--------------------|--------------------------------------|------------------------------------|
| Tour Sheet Serial No<br>0X8424_20110305_1A            | Vendor Software Version<br>Pason                        | Year<br>2011                                   | Month<br>03        | Day<br>05                            |                                    |
| License No<br>2073                                    | Well Name<br>PARA ET CAMERON 2H-03 HZ                   | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.                  | Contractor<br>NABORS DRILLING                           | Rig No<br>24                                   | Well Type<br>HORIZ | Re-Entry<br><input type="checkbox"/> |                                    |
| Operator's AFE<br>10N110009                           | Contractor's Job No<br>C6473                            | Spud Date Time<br>2011/02/18 03:00             |                    | Rig Release Date Time                |                                    |
| Signature of Operator Representative<br>JOSH BLINSTON | Signature of Contractor's Rig Manager<br>MICHAEL NUGENT |  |                    |                                      |                                    |



Pason

| DRILLING ASSEMBLY TOUR 1 |               |         |       |        | DRILLING ASSEMBLY TOUR 1 |              |         |       |        | DRILLING ASSEMBLY TOUR 1 |              |         |       |        |         |
|--------------------------|---------------|---------|-------|--------|--------------------------|--------------|---------|-------|--------|--------------------------|--------------|---------|-------|--------|---------|
| No                       | Component     | OD      | ID    | Length | No                       | Component    | OD      | ID    | Length | No                       | Component    | OD      | ID    | Length |         |
| 1                        | BIT           | 222.00  | 64.00 | 0.28   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |         |
| 1                        | BIT SUB       | 102.00  | 64.00 | 0.86   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.17   |         |
| 1                        | BIT SUB X/O   | 158.00  | 64.00 | 0.69   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |         |
| 8                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 75.04  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.37   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 3                        | HWDP(4.0 IN) | 102.00  | 64.00 | 28.02  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.31   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.33   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.68  | 4                        | HWDP(4.0 IN) | 102.00  | 64.00 | 37.56  |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.36   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.32   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.38   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.78  |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.39   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |                          |              |         |       |        |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.33   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   |                          |              |         |       |        |         |
| 1                        | JARS-HYD/MECH | 123.00  | 58.00 | 4.94   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |                          |              |         |       |        |         |
| Drill Pipe               |               | Stands  |       |        | Drill Pipe               |              | Stands  |       |        | 50 Drill Pipe            |              | Stands  |       |        | 952.24  |
| Drill Pipe               |               | Singles |       |        | Drill Pipe               |              | Singles |       |        | 1 Drill Pipe             |              | Singles |       |        | 9.61    |
| Kelly Down               |               |         |       |        | Kelly Down               |              |         |       |        | Kelly Down               |              |         |       |        | 3.87    |
| Total                    |               |         |       |        | Total                    |              |         |       |        | Total                    |              |         |       |        | 1534.00 |
| Weight of DC             |               |         |       |        | Weight of DC             |              |         |       |        | Weight of DC             |              |         |       |        |         |
| Weight of String         |               |         |       |        | Weight of String         |              |         |       |        | Weight of String         |              |         |       |        | 51.00   |

| SPECIAL EVENTS |              |   |       |       |
|----------------|--------------|---|-------|-------|
| Tour No.       | Event No.    | Description                               | Time  | Depth |
| 1              | JSA REVIEW   | B-81 PICK UP SUBS B-7 PIPE SPINNER USE    | 00:00 |       |
| 2              | JSA REVIEW   | B-35 RIG TONG USE, B-64 TRIPPING PIPE OUT | 12:00 |       |
| 2              | Rig site H/S | JACKING RIG                               | 12:00 |       |
|                |              |   |       |       |
|                |              |   |       |       |

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424 20110305 1A Vendor Software Version Pason Year 2011 Month 03 Day 05

|  |                                       |  |            |                      |   |
|--|---------------------------------------|--|------------|----------------------|---|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30W   | Prov<br>NT | Loc Type<br>LAT-LONG | Unique Well Id<br>302H036010117300  |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON |                                       | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT |            | Rig No<br>24         | Well Type<br>HORIZ<br>Spud Date Time<br>2011/02/18 03:00<br>Rig Release Date Time |



Pason

| DRILLING ASSEMBLY TOUR 2 |               |         |       |        | DRILLING ASSEMBLY TOUR 2 |              |         |       |        | DRILLING ASSEMBLY TOUR 2 |              |         |       |        |         |
|--------------------------|---------------|---------|-------|--------|--------------------------|--------------|---------|-------|--------|--------------------------|--------------|---------|-------|--------|---------|
| No                       | Component     | OD      | ID    | Length | No                       | Component    | OD      | ID    | Length | No                       | Component    | OD      | ID    | Length |         |
| 1                        | BIT           | 222.00  | 64.00 | 0.28   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |         |
| 1                        | BIT SUB       | 102.00  | 64.00 | 0.86   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.17   |         |
| 1                        | BIT SUB X/O   | 158.00  | 64.00 | 0.69   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |         |
| 8                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 75.04  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.37   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 3                        | HWDP(4.0 IN) | 102.00  | 64.00 | 28.02  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.31   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.33   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.68  | 4                        | HWDP(4.0 IN) | 102.00  | 64.00 | 37.56  |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.36   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.32   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.38   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.78  |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.39   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |                          |              |         |       |        |         |
| 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.33   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   |                          |              |         |       |        |         |
| 1                        | JARS-HYD/MECH | 123.00  | 58.00 | 4.94   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |                          |              |         |       |        |         |
| Drill Pipe               |               | Stands  |       |        | Drill Pipe               |              | Stands  |       |        | 50 Drill Pipe            |              | Stands  |       |        | 952.24  |
| Drill Pipe               |               | Singles |       |        | Drill Pipe               |              | Singles |       |        | 1 Drill Pipe             |              | Singles |       |        | 9.61    |
| Kelly Down               |               |         |       |        | Kelly Down               |              |         |       |        | Kelly Down               |              |         |       |        | 3.87    |
| Total                    |               |         |       |        | Total                    |              |         |       |        | Total                    |              |         |       |        | 1534.00 |
| Weight of DC             |               |         |       |        | Weight of DC             |              |         |       |        | Weight of DC             |              |         |       |        |         |
| Weight of String         |               |         |       |        | Weight of String         |              |         |       |        | Weight of String         |              |         |       |        | 51.00   |

| SPECIAL EVENTS |           |             |      |       |
|----------------|-----------|-------------|------|-------|
| Tour No.       | Event No. | Description | Time | Depth |
|                |           |             |      |       |
|                |           |             |      |       |
|                |           |             |      |       |
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|                |           |             |      |       |





**FRONT PAGE SUMMARY**

License No: WA8 Name: PABA ET CAMERON 24 03 12  
 2012  
 Operator: PAPAACCOUNT RESOURCES LTD.  
 Operator's A/E: 10/11/2009  
 Signature of Operator Representative: BLANSTON

Job Sheet Serial Number: 20110007-1A  
 Surface Location: 60 07 20 40V117 2006 30W  
 Vendor Software Version: 2011  
 Project: LVT-LONG  
 Loc Type: Unique Well ID  
 Rig No: 24  
 Well Type: HOCHZ  
 Spud Date Time: 2011/02/16 03:00  
 Rig Release Date Time:

**DAILY CHECKS**

| Year | Month | Day |
|------|-------|-----|
| 2011 | 03    | 07  |

Re-Entry  
 1) Rig Site Health & Safety Meeting (pre-drift/monitors)  
 2) CA002 Rig Safety Inspector Checklist (pre-drift/monitors)  
 3) Motor Inspector before starting of Lifter  
 4) Motor Oil Change  
 5) Motor Oil Change  
 6) Motor Oil Change  
 7) Visually Inspected BOP - Press Lines & Depress Lines (LIVE)  
 8) BOP Data Retrieved  
 9) BOP Data Retrieved  
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OP RM

| Item | Qty  | Unit | Rate   | Total  |
|------|------|------|--------|--------|
| 1000 | 1.00 | HR   | 180.00 | 180.00 |
| 1001 | 1.00 | HR   | 180.00 | 180.00 |
| 1002 | 1.00 | HR   | 180.00 | 180.00 |
| 1003 | 1.00 | HR   | 180.00 | 180.00 |
| 1004 | 1.00 | HR   | 180.00 | 180.00 |
| 1005 | 1.00 | HR   | 180.00 | 180.00 |
| 1006 | 1.00 | HR   | 180.00 | 180.00 |
| 1007 | 1.00 | HR   | 180.00 | 180.00 |
| 1008 | 1.00 | HR   | 180.00 | 180.00 |
| 1009 | 1.00 | HR   | 180.00 | 180.00 |
| 1010 | 1.00 | HR   | 180.00 | 180.00 |
| 1011 | 1.00 | HR   | 180.00 | 180.00 |
| 1012 | 1.00 | HR   | 180.00 | 180.00 |
| 1013 | 1.00 | HR   | 180.00 | 180.00 |
| 1014 | 1.00 | HR   | 180.00 | 180.00 |
| 1015 | 1.00 | HR   | 180.00 | 180.00 |
| 1016 | 1.00 | HR   | 180.00 | 180.00 |
| 1017 | 1.00 | HR   | 180.00 | 180.00 |
| 1018 | 1.00 | HR   | 180.00 | 180.00 |
| 1019 | 1.00 | HR   | 180.00 | 180.00 |
| 1020 | 1.00 | HR   | 180.00 | 180.00 |
| 1021 | 1.00 | HR   | 180.00 | 180.00 |
| 1022 | 1.00 | HR   | 180.00 | 180.00 |
| 1023 | 1.00 | HR   | 180.00 | 180.00 |
| 1024 | 1.00 | HR   | 180.00 | 180.00 |
| 1025 | 1.00 | HR   | 180.00 | 180.00 |
| 1026 | 1.00 | HR   | 180.00 | 180.00 |
| 1027 | 1.00 | HR   | 180.00 | 180.00 |
| 1028 | 1.00 | HR   | 180.00 | 180.00 |
| 1029 | 1.00 | HR   | 180.00 | 180.00 |
| 1030 | 1.00 | HR   | 180.00 | 180.00 |
| 1031 | 1.00 | HR   | 180.00 | 180.00 |
| 1032 | 1.00 | HR   | 180.00 | 180.00 |
| 1033 | 1.00 | HR   | 180.00 | 180.00 |
| 1034 | 1.00 | HR   | 180.00 | 180.00 |
| 1035 | 1.00 | HR   | 180.00 | 180.00 |
| 1036 | 1.00 | HR   | 180.00 | 180.00 |
| 1037 | 1.00 | HR   | 180.00 | 180.00 |
| 1038 | 1.00 | HR   | 180.00 | 180.00 |
| 1039 | 1.00 | HR   | 180.00 | 180.00 |
| 1040 | 1.00 | HR   | 180.00 | 180.00 |
| 1041 | 1.00 | HR   | 180.00 | 180.00 |
| 1042 | 1.00 | HR   | 180.00 | 180.00 |
| 1043 | 1.00 | HR   | 180.00 | 180.00 |
| 1044 | 1.00 | HR   | 180.00 | 180.00 |
| 1045 | 1.00 | HR   | 180.00 | 180.00 |
| 1046 | 1.00 | HR   | 180.00 | 180.00 |
| 1047 | 1.00 | HR   | 180.00 | 180.00 |
| 1048 | 1.00 | HR   | 180.00 | 180.00 |
| 1049 | 1.00 | HR   | 180.00 | 180.00 |
| 1050 | 1.00 | HR   | 180.00 | 180.00 |
| 1051 | 1.00 | HR   | 180.00 | 180.00 |
| 1052 | 1.00 | HR   | 180.00 | 180.00 |
| 1053 | 1.00 | HR   | 180.00 | 180.00 |
| 1054 | 1.00 | HR   | 180.00 | 180.00 |
| 1055 | 1.00 | HR   | 180.00 | 180.00 |
| 1056 | 1.00 | HR   | 180.00 | 180.00 |
| 1057 | 1.00 | HR   | 180.00 | 180.00 |
| 1058 | 1.00 | HR   | 180.00 | 180.00 |
| 1059 | 1.00 | HR   | 180.00 | 180.00 |
| 1060 | 1.00 | HR   | 180.00 | 180.00 |
| 1061 | 1.00 | HR   | 180.00 | 180.00 |
| 1062 | 1.00 | HR   | 180.00 | 180.00 |
| 1063 | 1.00 | HR   | 180.00 | 180.00 |
| 1064 | 1.00 | HR   | 180.00 | 180.00 |
| 1065 | 1.00 | HR   | 180.00 | 180.00 |
| 1066 | 1.00 | HR   | 180.00 | 180.00 |
| 1067 | 1.00 | HR   | 180.00 | 180.00 |
| 1068 | 1.00 | HR   | 180.00 | 180.00 |
| 1069 | 1.00 | HR   | 180.00 | 180.00 |
| 1070 | 1.00 | HR   | 180.00 | 180.00 |
| 1071 | 1.00 | HR   | 180.00 | 180.00 |
| 1072 | 1.00 | HR   | 180.00 | 180.00 |
| 1073 | 1.00 | HR   | 180.00 | 180.00 |
| 1074 | 1.00 | HR   | 180.00 | 180.00 |
| 1075 | 1.00 | HR   | 180.00 | 180.00 |
| 1076 | 1.00 | HR   | 180.00 | 180.00 |
| 1077 | 1.00 | HR   | 180.00 | 180.00 |
| 1078 | 1.00 | HR   | 180.00 | 180.00 |
| 1079 | 1.00 | HR   | 180.00 | 180.00 |
| 1080 | 1.00 | HR   | 180.00 | 180.00 |
| 1081 | 1.00 | HR   | 180.00 | 180.00 |
| 1082 | 1.00 | HR   | 180.00 | 180.00 |
| 1083 | 1.00 | HR   | 180.00 | 180.00 |
| 1084 | 1.00 | HR   | 180.00 | 180.00 |
| 1085 | 1.00 | HR   | 180.00 | 180.00 |
| 1086 | 1.00 | HR   | 180.00 | 180.00 |
| 1087 | 1.00 | HR   | 180.00 | 180.00 |
| 1088 | 1.00 | HR   | 180.00 | 180.00 |
| 1089 | 1.00 | HR   | 180.00 | 180.00 |
| 1090 | 1.00 | HR   | 180.00 | 180.00 |
| 1091 | 1.00 | HR   | 180.00 | 180.00 |
| 1092 | 1.00 | HR   | 180.00 | 180.00 |
| 1093 | 1.00 | HR   | 180.00 | 180.00 |
| 1094 | 1.00 | HR   | 180.00 | 180.00 |
| 1095 | 1.00 | HR   | 180.00 | 180.00 |
| 1096 | 1.00 | HR   | 180.00 | 180.00 |
| 1097 | 1.00 | HR   | 180.00 | 180.00 |
| 1098 | 1.00 | HR   | 180.00 | 180.00 |
| 1099 | 1.00 | HR   | 180.00 | 180.00 |
| 1100 | 1.00 | HR   | 180.00 | 180.00 |

| CODE   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL |
|--------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| Hour 1 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
| Hour 2 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
| Hour 3 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
| Total  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |

**TOUR 1 SIGNATURE OF DRILLER** THE BRIDGE

**DRILLING ASSEMBLY**

| No | Component   | 00  | ID | Length |
|----|-------------|-----|----|--------|
| 1  | BIT         | 154 | 64 | 0.18m  |
| 2  | MOTOR HS    | 124 | 64 | 7.54m  |
| 3  | TRICENT SUB | 124 | 64 | 1.04m  |
| 4  | MOKEL FLEX  | 124 | 64 | 9.35m  |
| 5  | MOKEL FLEX  | 124 | 64 | 9.31m  |
| 6  | MOKEL FLEX  | 124 | 64 | 9.19m  |
| 7  | MOPED 0.0N  | 102 | 64 | 75.04m |
| 8  | MOPED 0.0N  | 102 | 64 | 9.31m  |
| 9  | MOPED 0.0N  | 102 | 64 | 9.34m  |
| 10 | MOPED 0.0N  | 102 | 64 | 9.34m  |
| 11 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 12 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 13 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 14 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 15 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 16 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 17 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 18 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 19 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 20 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 21 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 22 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 23 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 24 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 25 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 26 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 27 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 28 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 29 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 30 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 31 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 32 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 33 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 34 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 35 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 36 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 37 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 38 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 39 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 40 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 41 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 42 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 43 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 44 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 45 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 46 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 47 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 48 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 49 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 50 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 51 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 52 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 53 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 54 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 55 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 56 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 57 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 58 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 59 | MOPED 0.0N  | 102 | 64 | 9.33m  |
| 60 | MOPED 0.0N  | 102 |    |        |

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

|  |  |  |                    |                                      |                                    |
|--|--|--|--------------------|--------------------------------------|------------------------------------|
| Tour Sheet Serial No<br>0X8424_20110307_1A   | Vendor Software Version<br>Pason   | Year<br>2011                                   | Month<br>03        | Day<br>07                            |                                    |
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Re-Entry<br><input type="checkbox"/> |                                    |
|  |  | Spud Date Time<br>2011/02/18 03:00             |                    | Rig Release Date Time                |                                    |



Pason

| DRILLING ASSEMBLY TOUR 1 |              |         |       |        | DRILLING ASSEMBLY TOUR 1 |               |         |       |        | DRILLING ASSEMBLY TOUR 1 |              |         |       |        |
|--------------------------|--------------|---------|-------|--------|--------------------------|---------------|---------|-------|--------|--------------------------|--------------|---------|-------|--------|
| No                       | Component    | OD      | ID    | Length | No                       | Component     | OD      | ID    | Length | No                       | Component    | OD      | ID    | Length |
| 1                        | BIT          | 156.00  | 64.00 | 0.18   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                        | MOTOR HS     | 120.00  | 64.00 | 7.54   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.33   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   |
| 1                        | ORIENT SUB   | 120.00  | 64.00 | 1.04   | 1                        | JARS-HYD/MECH | 123.00  | 58.00 | 4.94   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                        | MONEL FLEX   | 120.00  | 68.00 | 9.35   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.33   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |
| 1                        | MONEL FLEX   | 121.00  | 68.00 | 9.31   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.17   |
| 1                        | MONEL FLEX   | 120.00  | 68.00 | 9.19   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.38   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |
| 8                        | HWDP(4.0 IN) | 102.00  | 64.00 | 75.04  | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.36   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |
| 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.37   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.37   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   |
| 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   |
| 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   | 3                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 28.02  | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |
| 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.36   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   |
| 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.34   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.31   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.72  |
| 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.33   | 2                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 18.68  | 4                        | HWDP(4.0 IN) | 102.00  | 64.00 | 37.56  |
| 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.36   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.32   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |
| 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.38   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.34   | 2                        | HWDP(4.0 IN) | 102.00  | 64.00 | 18.78  |
| 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.40   |
| 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.35   | 1                        | HWDP(4.0 IN)  | 102.00  | 64.00 | 9.37   | 1                        | HWDP(4.0 IN) | 102.00  | 64.00 | 9.39   |
| Drill Pipe               |              | Stands  |       |        | Drill Pipe               |               | Stands  |       |        | Drill Pipe               |              | Stands  |       |        |
| Drill Pipe               |              | Singles |       |        | Drill Pipe               |               | Singles |       |        | Drill Pipe               |              | Singles |       |        |
| Kelly Down               |              |         |       |        | Kelly Down               |               |         |       |        | Kelly Down               |              |         |       |        |
| Total                    |              |         |       |        | Total                    |               |         |       |        | Total                    |              |         |       |        |
| Weight of DC             |              |         |       |        | Weight of DC             |               |         |       |        | Weight of DC             |              |         |       |        |
| Weight of String         |              |         |       |        | Weight of String         |               |         |       |        | Weight of String         |              |         |       |        |

| SPECIAL EVENTS |              |  |       |       |
|----------------|--------------|--|-------|-------|
| Tour No.       | Event No.    | Description  | Time  | Depth |
| 1              | JSA REVIEW   | B-27 RIG TO CEMENT CASING AND CEMENT B-29 RIG UP AND OUT POWER TONGS | 00:00 |       |
| 1              | Rig site H/S | RIG TO CEMENT  | 00:00 |       |
| 2              | JSA REVIEW   | B-27 RIG TO CEMENT CASING AND CEMENTING, B-07 FLUSH STACK            | 12:00 |       |
|                |              |  |       |       |
|                |              |  |       |       |









FRONT PAGE SUMMARY

License No. 2073, Well Name: PAMA ET CAMELTON 2H-03 WZ, Operator: PARADIGM RESOURCES LTD., Operator's A/E: TONI10009, Date of Operator Representative: BRUNTON

Table with 13 columns: CODE, 1-13, and 14-25. Rows include Hour 1, Hour 2, Hour 3, and Total. Values range from 11:50 to 23:00.

Four Sheet Serial Number: 04644\_20710299\_1A, Surface Location: 60 02 20 40W 17 30 06 30W, Vendor Software Version: Paxon, Lic Type: Uthqua Well ID, Lic No: LAY-LONG, Lic Issue Date: 2020-03-01 17:20:00

DAILY CHECKS table with columns: Day, 01-09, 10-19, 20-29, 30-31. Rows include 1) Daily Well Record Inspection, 2) HCS Signage, 3) HCS Signage, 4) Well Location & Stock Diagrams, 5) BOP Drive Pressure, 6) Wellhead Pressure, 7) Wellhead Pressure, 8) Wellhead Pressure, 9) Wellhead Pressure, 10) Wellhead Pressure.

Weather: FUEL @ 0850 HOURS, 100.00, 0.00, 22.00. Includes Pason logo and CAPDC logo.

TOUR 1 SIGNATURE OF DRILLER

WAGE STATEMENT

START TIME 00:00

END TIME 12:00

TOUR 1 SIGNATURE OF DRILLER form. Includes DRILLING ASSEMBLY, MUD RECORD, REDUCED PUMP SPEED, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.

TOUR 1 SIGNATURE OF DRILLER form. Includes DRILLING ASSEMBLY, MUD RECORD, REDUCED PUMP SPEED, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.

TOUR 1 SIGNATURE OF DRILLER form. Includes DRILLING ASSEMBLY, MUD RECORD, REDUCED PUMP SPEED, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.

TOUR 2 SIGNATURE OF DRILLER

KHS HVA

START TIME 12:00

END TIME 24:00

TOUR 2 SIGNATURE OF DRILLER form. Includes DRILLING ASSEMBLY, MUD RECORD, REDUCED PUMP SPEED, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.

TOUR 2 SIGNATURE OF DRILLER form. Includes DRILLING ASSEMBLY, MUD RECORD, REDUCED PUMP SPEED, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.

TOUR 2 SIGNATURE OF DRILLER form. Includes DRILLING ASSEMBLY, MUD RECORD, REDUCED PUMP SPEED, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.

TOUR 3 SIGNATURE OF DRILLER

START TIME

END TIME

TOUR 3 SIGNATURE OF DRILLER form. Includes DRILLING ASSEMBLY, MUD RECORD, REDUCED PUMP SPEED, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.

TOUR 3 SIGNATURE OF DRILLER form. Includes DRILLING ASSEMBLY, MUD RECORD, REDUCED PUMP SPEED, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.

TOUR 3 SIGNATURE OF DRILLER form. Includes DRILLING ASSEMBLY, MUD RECORD, REDUCED PUMP SPEED, DEVIATION SURVEYS, SOLIDS CONTROL, MUD MATERIALS ADDED, TIME LOG, SAFETY, and SIGNATURE OF DRILLER.





**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110309\_1A Vendor Software Version Pason Year 2011 Month 03 Day 09



License No 2073 Well Name PARA ET CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30W Prov NT Loc Type LAT-LONG Unique Well Id 302H036010117300

Operator PARAMOUNT RESOURCES LTD. Contractor NABORS DRILLING Rig No 24 Well Type HORIZ Re-Entry   
 Operator's AFE 10N110009 Contractor's Job No C6473 Spud Date Time 2011/02/18 03:00  
 Signature of Operator Representative JOSH BLINSTON Signature of Contractor's Rig Manager MICHAEL NUGENT Rig Release Date Time



Pason

TOUR 1 MUD TYPE POLYMER WATER  OIL  OTHER

| Time               | 02:30                | 06:00     | 10:00     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1015kg/m3            | 1020kg/m3 | 1020kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 37s/l                | 38s/l     | 35s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         | 11.5cm3              | 9.5cm3    | 10cm3     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 11                   | 11        | 11        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SHAKER    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              | 1567m                | 1597m     | 1643m     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                | 44.8m3               | 45.6m3    | 46.6m3    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110309\_1A Vendor Software Version Pason Year 2011 Month 03 Day 09

|  |  |  |                    |                                    |                                      |
|--|--|--|--------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |
| Rig Release Date Time  |  |  |                    |                                    |                                      |



Pason

**TOUR** 2      **MUD TYPE** polymer      **WATER** x      **OIL**      **OTHER**

| Time               | 14:00                | 17:00     | 22:00     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1010kg/m3            | 1010kg/m3 | 1010kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 37s/l                | 41s/l     | 39s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         | 8.0cm3               | 8cm3      | 7cm3      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 10                   | 9.5       | 10.5      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | shaker               | shaker    | shaker    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              | 1695m                | 1715m     | 1755m     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**









**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110310\_1A Vendor Software Version Pason Year 2011 Month 03 Day 10



|  |  |  |                                    |                                      |                                    |
|--|--|--|------------------------------------|--------------------------------------|------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT                         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |                                    |
|  |  |  | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |                                    |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 1      |                      | POLYMER   |           |           | x     |  |     |  |       |  |
| Time   | 02:00                | 06:00     | 08:45     |           |       |  |     |  |       |  |
|        | Density              | 1010kg/m3 | 1010kg/m3 | 1010kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 39s/l     | 40s/l     | 40s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 7.0cm3    | 7.5cm3    | 7cm3      |       |  |     |  |       |  |
|        | Fluid pH             | 10.5      | 10.5      | 10.5      |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                | 1780m     | 1797m     | 1815m     |       |  |     |  |       |  |
|        | PVT                  | 40.2m3    | 39.5m3    | 39.2m3    |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110310\_1A Vendor Software Version Pason Year 2011 Month 03 Day 10



|  |  |  |                                    |                                      |                                    |
|--|--|--|------------------------------------|--------------------------------------|------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT                         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |                                    |
|  |  |  | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |                                    |



Pason

**TOUR 2 MUD TYPE polymer WATER x OIL OTHER**

| Time               | 14:00                | 18:00     | 22:00     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1020kg/m3            | 1030kg/m3 | 1030kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 40s/l                | 40s/l     | 41s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         | 7.5cm3               | 5cm3      | 5.0cm3    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 10                   | 9.5       | 10.0      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | shaker               | shaker    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              | 1857m                | 1880m     | 1913m     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                | 35m3                 | 34.2m3    | 30.1m3    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**



**FRONT PAGE SUMMARY**

License No: 2073 Well Name: PAPA LET CAMERON 2H-03 HZ  
 Operator: PARAMOUNT RESOURCES LTD  
 Operator's A/E: 10N110009  
 Line of Operator Representative: BRUNSTON

Four Sheet Serial Number: 064624\_20110311\_1A  
 Surface Location: 66 02 20 40W 17 20 06 30W  
 Vendor Software Version: 2011  
 Month: 03  
 Day: 11

**DAILY CHECKS**  
 1) Rig Site Safety & Safety Meeting (pre-construction)  
 2) Well Location & Stock Diagram (pre-construction)  
 3) Well Location & Stock Diagram (pre-construction)  
 4) Well Location & Stock Diagram (pre-construction)  
 5) Well Location & Stock Diagram (pre-construction)  
 6) BOP Data Reviewed  
 7) Visually Inspected BOP - (per Lines & Dragger Unit)  
 8) BOP Data Reviewed  
 9) Well Location & Stock Diagram (pre-construction)  
 10) Well Location & Stock Diagram (pre-construction)  
 11) Well Location & Stock Diagram (pre-construction)  
 12) Well Location & Stock Diagram (pre-construction)  
 13) Well Location & Stock Diagram (pre-construction)  
 14) Well Location & Stock Diagram (pre-construction)  
 15) Well Location & Stock Diagram (pre-construction)



| DE     | 1     | 2 | 3 | 4 | 5 | 6    | 7    | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL |
|--------|-------|---|---|---|---|------|------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| Hour 1 | 11.50 |   |   |   |   |      |      |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 12.00 |
| Hour 2 | 10.50 |   |   |   |   |      |      |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 12.00 |
| Hour 3 |       |   |   |   |   |      |      |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 12.00 |
| Total  |       |   |   |   |   | 1.00 | 0.25 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 24.00 |

**WEATHER**

|            |      |
|------------|------|
| Temp       | 11.0 |
| Wind       | 1.0  |
| Humidity   | 100  |
| Pressure   | 1013 |
| Clouds     | 0    |
| Visibility | 10   |
| Dew Point  | 11.0 |
| Wind Speed | 1.0  |

**TOUR 1 SIGNATURE OF DRILLER**

WADE STEVENSON

START TIME 09:00

END TIME 12:00

| BITS              |                     | DRILLING ASSEMBLY |        | MUD RECORD         |                    | DEVIATION SURVEYS |       | TIME LOG  |           |            |           |             |         |      |   |      |   |
|-------------------|---------------------|-------------------|--------|--------------------|--------------------|-------------------|-------|-----------|-----------|------------|-----------|-------------|---------|------|---|------|---|
| Bit Number        | No Component        | OD                | ID     | Length             | Mud Type           | Water             | Oil   | Time      | Depth     | Deviation  | Direction | Type        | From    | To   | Exposed                                     | Code | Details of Operations in Sequence & Remarks |
| TI                |                     |                   |        |                    |                    |                   |       | 11.45     | 11.4      | 90.0       | 173.2     | DIRECTIONAL |         |      |   |      |   |
| TO                |                     |                   |        |                    |                    |                   |       |           |           |            |           |             |         |      |   |      |   |
| MDC               |                     |                   |        |                    |                    |                   |       |           |           |            |           |             |         |      |   |      |   |
| LOC               |                     |                   |        |                    |                    |                   |       |           |           |            |           |             |         |      |   |      |   |
| BRG               |                     |                   |        |                    |                    |                   |       |           |           |            |           |             |         |      |   |      |   |
| CUTTING STRUCTURE |                     | HOLE CONDITION    |        | REDUCED PUMP SPEED |                    | SOLIDS CONTROL    |       | SAFETY    |           |            |           |             |         |      |   |      |   |
| TI                | Depth Out (m)       | Drill Pipe        | Stand  | Time               | Density            | Equipment         | Hours | Initial   | Over Flow | Under Flow |           |             |         |      |   |      |   |
| TO                | Depth In (m)        | Drill Pipe        | Straps | Time               | Funnel Viscosity   | Name              | Run   | Run       | Density   | Density    |           |             |         |      |   |      |   |
| MDC               | Total Drilled (m)   | Drill Pipe        |        | Time               | Fluid Loss         |                   |       |           |           |            |           |             |         |      |   |      |   |
| LOC               | This Run Today      | Drill Pipe        |        | Time               | pH                 |                   |       |           |           |            |           |             |         |      |   |      |   |
| BRG               | Cumulative This Run | Drill Pipe        |        | Time               | Location of Sample |                   |       |           |           |            |           |             |         |      |   |      |   |
| METRES DRILLED    |                     | HOLE CONDITION    |        | REDUCED PUMP SPEED |                    | SOLIDS CONTROL    |       | SAFETY    |           |            |           |             |         |      |   |      |   |
| From              | To                  | D-C               | PPM    | WOB                | Time               | Time              | Depth | Deviation | Direction | Type       | From      | To          | Exposed | Code | Details of Operations in Sequence & Remarks |      |   |
|                   |                     |                   |        |                    |                    |                   |       |           |           |            |           |             |         |      |   |      |   |

**TOUR 2 SIGNATURE OF DRILLER**

WADE STEVENSON

START TIME 12:00

END TIME 24:00

| BITS              |                     | DRILLING ASSEMBLY |        | MUD RECORD         |                    | DEVIATION SURVEYS |       | TIME LOG  |           |            |           |             |         |      |   |      |   |
|-------------------|---------------------|-------------------|--------|--------------------|--------------------|-------------------|-------|-----------|-----------|------------|-----------|-------------|---------|------|---|------|---|
| Bit Number        | No Component        | OD                | ID     | Length             | Mud Type           | Water             | Oil   | Time      | Depth     | Deviation  | Direction | Type        | From    | To   | Exposed                                     | Code | Details of Operations in Sequence & Remarks |
| TI                |                     |                   |        |                    |                    |                   |       | 12.00     | 89.2      | 117.0      | 173.0     | DIRECTIONAL |         |      |   |      |   |
| TO                |                     |                   |        |                    |                    |                   |       |           |           |            |           |             |         |      |   |      |   |
| MDC               |                     |                   |        |                    |                    |                   |       |           |           |            |           |             |         |      |   |      |   |
| LOC               |                     |                   |        |                    |                    |                   |       |           |           |            |           |             |         |      |   |      |   |
| BRG               |                     |                   |        |                    |                    |                   |       |           |           |            |           |             |         |      |   |      |   |
| CUTTING STRUCTURE |                     | HOLE CONDITION    |        | REDUCED PUMP SPEED |                    | SOLIDS CONTROL    |       | SAFETY    |           |            |           |             |         |      |   |      |   |
| TI                | Depth Out (m)       | Drill Pipe        | Stand  | Time               | Density            | Equipment         | Hours | Initial   | Over Flow | Under Flow |           |             |         |      |   |      |   |
| TO                | Depth In (m)        | Drill Pipe        | Straps | Time               | Funnel Viscosity   | Name              | Run   | Run       | Density   | Density    |           |             |         |      |   |      |   |
| MDC               | Total Drilled (m)   | Drill Pipe        |        | Time               | Fluid Loss         |                   |       |           |           |            |           |             |         |      |   |      |   |
| LOC               | This Run Today      | Drill Pipe        |        | Time               | pH                 |                   |       |           |           |            |           |             |         |      |   |      |   |
| BRG               | Cumulative This Run | Drill Pipe        |        | Time               | Location of Sample |                   |       |           |           |            |           |             |         |      |   |      |   |
| METRES DRILLED    |                     | HOLE CONDITION    |        | REDUCED PUMP SPEED |                    | SOLIDS CONTROL    |       | SAFETY    |           |            |           |             |         |      |   |      |   |
| From              | To                  | D-C               | PPM    | WOB                | Time               | Time              | Depth | Deviation | Direction | Type       | From      | To          | Exposed | Code | Details of Operations in Sequence & Remarks |      |   |
|                   |                     |                   |        |                    |                    |                   |       |           |           |            |           |             |         |      |   |      |   |

**TOUR 3 SIGNATURE OF DRILLER**

WADE STEVENSON

START TIME

END TIME

| BITS              |                     | DRILLING ASSEMBLY |        | MUD RECORD         |                    | DEVIATION SURVEYS |       | TIME LOG  |           |            |           |      |         |      |   |      |   |
|-------------------|---------------------|-------------------|--------|--------------------|--------------------|-------------------|-------|-----------|-----------|------------|-----------|------|---------|------|---|------|---|
| Bit Number        | No Component        | OD                | ID     | Length             | Mud Type           | Water             | Oil   | Time      | Depth     | Deviation  | Direction | Type | From    | To   | Exposed                                     | Code | Details of Operations in Sequence & Remarks |
| TI                |                     |                   |        |                    |                    |                   |       |           |           |            |           |      |         |      |   |      |   |
| TO                |                     |                   |        |                    |                    |                   |       |           |           |            |           |      |         |      |   |      |   |
| MDC               |                     |                   |        |                    |                    |                   |       |           |           |            |           |      |         |      |   |      |   |
| LOC               |                     |                   |        |                    |                    |                   |       |           |           |            |           |      |         |      |   |      |   |
| BRG               |                     |                   |        |                    |                    |                   |       |           |           |            |           |      |         |      |   |      |   |
| CUTTING STRUCTURE |                     | HOLE CONDITION    |        | REDUCED PUMP SPEED |                    | SOLIDS CONTROL    |       | SAFETY    |           |            |           |      |         |      |   |      |   |
| TI                | Depth Out (m)       | Drill Pipe        | Stand  | Time               | Density            | Equipment         | Hours | Initial   | Over Flow | Under Flow |           |      |         |      |   |      |   |
| TO                | Depth In (m)        | Drill Pipe        | Straps | Time               | Funnel Viscosity   | Name              | Run   | Run       | Density   | Density    |           |      |         |      |   |      |   |
| MDC               | Total Drilled (m)   | Drill Pipe        |        | Time               | Fluid Loss         |                   |       |           |           |            |           |      |         |      |   |      |   |
| LOC               | This Run Today      | Drill Pipe        |        | Time               | pH                 |                   |       |           |           |            |           |      |         |      |   |      |   |
| BRG               | Cumulative This Run | Drill Pipe        |        | Time               | Location of Sample |                   |       |           |           |            |           |      |         |      |   |      |   |
| METRES DRILLED    |                     | HOLE CONDITION    |        | REDUCED PUMP SPEED |                    | SOLIDS CONTROL    |       | SAFETY    |           |            |           |      |         |      |   |      |   |
| From              | To                  | D-C               | PPM    | WOB                | Time               | Time              | Depth | Deviation | Direction | Type       | From      | To   | Exposed | Code | Details of Operations in Sequence & Remarks |      |   |
|                   |                     |                   |        |                    |                    |                   |       |           |           |            |           |      |         |      |   |      |   |

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110311\_1A Vendor Software Version Pason Year 2011 Month 03 Day 11

License No 2073 Well Name PARA ET CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30W Prov NT Loc Type LAT-LONG Unique Well Id 302H036010117300

Operator PARAMOUNT RESOURCES LTD. Contractor NABORS DRILLING Rig No 24 Well Type HORIZ Re-Entry   
 Operator's AFE 10N110009 Contractor's Job No C6473 Spud Date Time 2011/02/18 03:00  
 Signature of Operator Representative JOSH BLINSTON Signature of Contractor's Rig Manager MICHAEL NUGENT Rig Release Date Time



Pason

**TOUR 1 MUD TYPE POLYMER WATER x OIL OTHER**

| Time               | 02:00                | 06:00     | 10:00     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1030kg/m3            | 1030kg/m3 | 1030kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 40s/l                | 40s/l     | 39s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         | 5.0cm3               | 5.5cm3    | 5cm3      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 10.5                 | 10.5      | 10        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SHAKER    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              | 1928m                | 1957m     | 1977m     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                | 29.1m3               | 26.4m3    |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110311\_1A Vendor Software Version Pason Year 2011 Month 03 Day 11



|   |   |  |                    |                                      |                                    |
|---|---|--|--------------------|--------------------------------------|------------------------------------|
| License No<br>2073                                    | Well Name<br>PARA ET CAMERON 2H-03 HZ                   | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.                  | Contractor<br>NABORS DRILLING                           | Rig No<br>24                                   | Well Type<br>HORIZ | Re-Entry<br><input type="checkbox"/> |                                    |
| Operator's AFE<br>10N110009                           | Contractor's Job No<br>C6473                            | Spud Date Time<br>2011/02/18 03:00             |                    | Rig Release Date Time                |                                    |
| Signature of Operator Representative<br>JOSH BLINSTON | Signature of Contractor's Rig Manager<br>MICHAEL NUGENT |  |                    |                                      |                                    |



Pason

| TOUR   |                      | MUD TYPE  |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-------|--|-----|--|-------|--|
| 2      |                      | POLYMER   |           | x     |  |     |  |       |  |
| Time   | 14:00                | 18:00     |           |       |  |     |  |       |  |
|        | Density              | 1030kg/m3 | 1040kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 40s/l     | 38s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 5cm3      | 5.5cm3    |       |  |     |  |       |  |
|        | Fluid pH             | 10        | 9.5       |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                | 2018m     | 2061m     |       |  |     |  |       |  |
|        | PVT                  | 26.8m3    |           |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |       |  |     |  |       |  |
|        | Value                |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**







**EQUIPMENT & SERVICES**

Tour Sheet Serial No  
0X8424\_20110312\_1A

Vendor Software Version  
Pason

Year Month Day  
2011 03 12



|  |  |                            |                       |                  |                                      |
|--|--|----------------------------|-----------------------|------------------|--------------------------------------|
| License No   | Well Name  | Surface Location           | Prov NT               | Loc Type         | Unique Well Id                       |
|  | 2073 PARA ET CAMERON 2H-03 HZ                        | 60:02:20.40N/117:30:06.30W |                       | LAT-LONG         | 302H036010117300                     |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE | Contractor<br>NABORS DRILLING<br>Contractor's Job No | Rig No<br>24               | Well Type<br>HORIZ    | Spud Date Time   | Re-Entry<br><input type="checkbox"/> |
| Signature of Operator Representative<br>JOSH BLINSTON  | 10N110009  | C6473                      | Rig Release Date Time | 2011/02/18 03:00 |                                      |



Pason

**GENERAL EQUIPMENT & SERVICE**

| Description               | Make       | Model           | Provided by | Expense of | Rental Company | Serial No  | Usage | Quantity | Quantity Used |
|---------------------------|------------|-----------------|-------------|------------|----------------|------------|-------|----------|---------------|
| NDL LOADER UNIT # 214     | JOHN DEERE | 54H             | CONTRACTOR  | OPERATOR   | NDL            | UNIT # 214 | 24    | 1        | 1             |
| Remarks:                  |            |                 |             |            |                |            |       |          |               |
| NDL CREW TRUCK UNIT # 122 | FORD       | F-250           | CONTRACTOR  | OPERATOR   | NDL            | UNIT # 122 | 24    | 1        | 1             |
| Remarks:                  |            |                 |             |            |                |            |       |          |               |
| 4" HWDP                   | HWDP       | 3 1/2 IF THREAD | OPERATOR    | OPERATOR   | NDL            |            | 24    | 60       | 60            |
| Remarks:                  |            |                 |             |            |                |            |       |          |               |

**BOILERS**

| Boiler No | Make   | Model    | Provided by | Expense of | Rental Company | Serial No | Hours Today |
|-----------|--------|----------|-------------|------------|----------------|-----------|-------------|
| 1         | REGENT | CSAH-100 | CONTRACTOR  | OPERATOR   | NDL            | 100-1272  | 24          |
| Remarks:  |        |          |             |            |                |           |             |
| Remarks:  |        |          |             |            |                |           |             |
| Remarks:  |        |          |             |            |                |           |             |

**SHALE SHAKERS**

| Shaker No | Make  | Model  | Screen 1 |      |                          |                          | Screen 2 |      |                          |                          | Screen 3 |      |                          |                          | Screen 4 |      |                          |                          |
|-----------|-------|--------|----------|------|--------------------------|--------------------------|----------|------|--------------------------|--------------------------|----------|------|--------------------------|--------------------------|----------|------|--------------------------|--------------------------|
|           |       |        | Position | Size | Screen Changed?          | New?                     | Position | Size | Screen Changed?          | New?                     | Position | Size | Screen Changed?          | New?                     | Position | Size | Screen Changed?          | New?                     |
| 1         | SWACO | ALS II | 1        | 210  | <input type="checkbox"/> | <input type="checkbox"/> | 2        | 210  | <input type="checkbox"/> | <input type="checkbox"/> |          |      | <input type="checkbox"/> | <input type="checkbox"/> |          |      | <input type="checkbox"/> | <input type="checkbox"/> |
| Remarks:  |       |        |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |
| Remarks:  |       |        |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |
| Remarks:  |       |        |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |          |      |                          |                          |

**MUD PUMPS**

| Pump No  | Make | Model  | Provided by | Expense of | Rental Company | Serial No | Hours Today | Stroke Length | Rod Size | Pump Style |
|----------|------|--------|-------------|------------|----------------|-----------|-------------|---------------|----------|------------|
| 1        | CPMP | NB-800 | CONTRACTOR  | CONTRACTOR | NDL            |           | 10          | 228.6mm       |          | TRIPLEX    |
| Remarks: |      |        |             |            |                |           |             |               |          |            |
| Remarks: |      |        |             |            |                |           |             |               |          |            |
| Remarks: |      |        |             |            |                |           |             |               |          |            |

**BITS**

| Bit No | Size      | IADC Code |   |   |   | Manufacturer | Type      | Serial No | Jets     |          |          |          |          |   |   |   | Depth In | Depth Out | Total Drilled | Total Hours Run Today | Cumulative Hours Run | Entry Date | Cutting Structure |    |     |     |     |      |          |               | Tour |                |          |   |
|--------|-----------|-----------|---|---|---|--------------|-----------|-----------|----------|----------|----------|----------|----------|---|---|---|----------|-----------|---------------|-----------------------|----------------------|------------|-------------------|----|-----|-----|-----|------|----------|---------------|------|----------------|----------|---|
|        |           | 1         | 2 | 3 | 4 |              |           |           | 1        | 2        | 3        | 4        | 5        | 6 | 7 | 8 |          |           |               |                       |                      |            | TI                | T0 | MDC | LOC | BRG | Gage | ODC      | Reason Pulled |      | Total Run m/Hr |          |   |
| 6      | 156.00-mm | S         | 1 | 3 | 2 | ULTERRA      | 513       | 5954      | 14.00-mm | 14.00-mm | 14.00-mm | 14.00-mm | 14.00-mm |   |   |   |          | 1534.0-0m | 2082.0-0m     | 548.00m               | 0.00                 | 48.00      | 11/03/08          | 2  | 3   | CT  | S   |      | X 2.00mm | WT            | BHA  | 11.42m/hr      | 1        |   |
| 7      | 156.00-mm | S         | 1 | 3 | 2 | ULTERRA      | 155UD-513 | 4563      | 14.00-mm | 14.00-mm | 14.00-mm | 14.00-mm | 12.00-mm |   |   |   |          | 2082.0-0m |               | 0.00m                 | 0.00                 | 0.00       | 11/03/12          |    |     |     |     |      |          |               |      |                |          | 1 |
| 7      | 156.00-mm | S         | 1 | 3 | 2 | ULTERRA      | 155UD-513 | 4563      | 14.00-mm | 14.00-mm | 14.00-mm | 14.00-mm | 12.00-mm |   |   |   |          | 2082.0-0m | 2088.2-0m     | 6.20m                 | 1.50                 | 1.50       | 11/03/12          |    |     |     |     |      |          |               |      |                | 4.13m/hr | 2 |



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110313\_1A Vendor Software Version Pason Year 2011 Month 03 Day 13



|  |  |  |                       |                                    |                                      |
|--|--|--|-----------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT            | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ    | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |
|  |  |  | Rig Release Date Time |                                    |                                      |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 1      |                      | POLYMER   |           |           | x     |  |     |  |       |  |
| Time   | 03:00                | 06:00     | 10:00     |           |       |  |     |  |       |  |
|        | Density              | 1040kg/m3 | 1050kg/m3 | 1050kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 40s/l     | 40s/l     | 43s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 6.5cm3    | 7.5cm3    | 6cm3      |       |  |     |  |       |  |
|        | Fluid pH             | 10.5      | 10        | 9.5       |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                |           |           | 2132m     |       |  |     |  |       |  |
|        | PVT                  |           |           |           |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110313\_1A Vendor Software Version Pason Year 2011 Month 03 Day 13



|  |  |  |                                    |                                      |                                    |
|--|--|--|------------------------------------|--------------------------------------|------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60.02:20.40N/117.30:06.30W | Prov<br>NT                         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |                                    |
|  |  |  | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |                                    |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 2      |                      | POLYMER   |           |           | x     |  |     |  |       |  |
| Time   | 14:00                | 18:00     | 22:00     |           |       |  |     |  |       |  |
|        | Density              | 1030kg/m3 | 1030kg/m3 | 1030kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 40s/l     | 38s/l     | 40s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 6cm3      | 7.5cm3    | 7.0cm3    |       |  |     |  |       |  |
|        | Fluid pH             | 9.5       | 9         | 10.0      |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                | 2170m     | 2188m     | 2200m     |       |  |     |  |       |  |
|        | PVT                  |           |           | 23.3m3    |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**





**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110314\_1A Vendor Software Version Pason Year 2011 Month 03 Day 14

License No 2073 Well Name PARA ET CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30W Prov NT Loc Type LAT-LONG Unique Well Id 302H036010117300

|  |  |              |   |                                      |
|--|--|--------------|---|--------------------------------------|
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ<br>Spud Date Time<br>2011/02/18 03:00<br>Rig Release Date Time | Re-Entry<br><input type="checkbox"/> |
|--|--|--------------|---|--------------------------------------|



Pason

TOUR 1 MUD TYPE POLYMER WATER  OIL  OTHER

| Time               | 02:00                | 10:00     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1040kg/m3            | 1030kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 38s/l                | 46s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         | 8.0cm3               | 7cm3      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 10.5                 | 9.5       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              | 2217m                | 2250m     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                | 21.5m3               | 21m3      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No: 0X8424\_20110314\_1A  
 Vendor Software Version: Pason  
 Year: 2011, Month: 03, Day: 14



|  |  |  |                    |                                      |                                    |
|--|--|--|--------------------|--------------------------------------|------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Re-Entry<br><input type="checkbox"/> |                                    |
|  |  | Spud Date Time<br>2011/02/18 03:00             |                    | Rig Release Date Time                |                                    |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 2      |                      | POLYMER   |           |           | x     |  |     |  |       |  |
| Time   | 14:00                | 18:00     | 22:00     |           |       |  |     |  |       |  |
|        | Density              | 1030kg/m3 | 1025kg/m3 | 1030kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 41s/l     | 39s/l     | 39s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 6cm3      | 6.5cm3    | 6.0cm3    |       |  |     |  |       |  |
|        | Fluid pH             | 9         | 10        | 10.5      |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                | 2280m     | 2298m     | 2318m     |       |  |     |  |       |  |
|        | PVT                  | 24m3      | 18m3      | 25.6m3    |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**



**FRONT PAGE SUMMARY**

License No 2073 Well Name PAPA ET CAMERON 24-03-HZ  
 Operator PAPA/MOUNT RESOURCES LTD.  
 Operator's A/E 10N170009  
 Bar of Operator Representative BRANSTON

Contractor MAJOR'S DRILLING  
 Contractor's Job No CG73  
 Signature of Contractor's Rig Manager MICHAEL MCKENZIE

Year 2011  
 Month 03  
 Day 15



| Hour   | Drill | Remaining | Core | Cond | Mid | Types | Rig  | Reaper | Cut Off | Dew | Wheele | Par Cog | Wat On | Hoppe Up | Test | Disassem | Plug | Square | Fishing | Dr | Safety | Test | Waiting | Rig | Other | TOTAL |
|--------|-------|-----------|------|------|-----|-------|------|--------|---------|-----|--------|---------|--------|----------|------|----------|------|--------|---------|----|--------|------|---------|-----|-------|-------|
| Tour 1 | 11:50 |           |      |      |     |       | 0.25 |        |         |     |        |         |        |          |      |          |      |        |         |    | 0.25   |      |         |     |       | 12.00 |
| Tour 2 | 11:25 |           |      |      |     |       | 0.25 |        |         |     |        |         |        |          |      |          |      |        |         |    | 0.50   |      |         |     |       | 12.00 |
| Tour 3 |       |           |      |      |     |       |      |        |         |     |        |         |        |          |      |          |      |        |         |    |        |      |         |     |       | 24.00 |
| Total  |       |           |      |      |     |       | 0.50 |        |         |     |        |         |        |          |      |          |      |        |         |    | 0.75   |      |         |     |       | 24.00 |

**WEATHER**  
 Fuel @ 08:00 HOURS  
 PASON

**TOUR 1 SIGNATURE OF DRILLER** KOS MAN

**DRILLING ASSEMBLY**  
 No Component  OJ  ID  Length

**MUD RECORD**  
 Mud Type  Water  Oil

**REDUCED PUMP SPEED**  
 Pump No Pressure Stroke/cm Depth

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type  
 09:45:22 66.8 182.1 DIRECTIONAL  
 10:30:22 66.5 182.4 DIRECTIONAL  
 11:45:22 69.3 181.9 DIRECTIONAL

**SOLIDS CONTROL**  
 Equipment Name Hours Inake Density Over Flow Under Flow  
 Run Density Density Density

**MUD MATERIALS ADDED**  
 Product Amount Type

**TIME LOG**  
 From To Etaged Code Details of Operations in Sequence & Remarks

**SAFETY**  
 Safety Topic MENT MACP ELECTRICAL 66 0004M 11312026

**START TIME** 00:00 **END TIME** 12:00

**TOUR 2 SIGNATURE OF DRILLER** WADE STEVENSON

**DRILLING ASSEMBLY**  
 No Component  OJ  ID  Length

**MUD RECORD**  
 Mud Type  Water  Oil

**REDUCED PUMP SPEED**  
 Pump No Pressure Stroke/cm Depth

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type  
 20:50:24 91.4 180.5 DIRECTIONAL  
 22:15:24 91.4 180.7 DIRECTIONAL  
 23:15:24 90.6 180.8 DIRECTIONAL

**SOLIDS CONTROL**  
 Equipment Name Hours Inake Density Over Flow Under Flow  
 Run Density Density Density

**MUD MATERIALS ADDED**  
 Product Amount Type

**TIME LOG**  
 From To Etaged Code Details of Operations in Sequence & Remarks

**SAFETY**  
 Safety Topic MENT MACP WELL CONTROL

**START TIME** 12:00 **END TIME** 24:00

**TOUR 3 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**  
 No Component  OJ  ID  Length

**MUD RECORD**  
 Mud Type  Water  Oil

**REDUCED PUMP SPEED**  
 Pump No Pressure Stroke/cm Depth

**DEVIATION SURVEYS**  
 Time Depth Deviation Direction Type

**SOLIDS CONTROL**  
 Equipment Name Hours Inake Density Over Flow Under Flow  
 Run Density Density Density

**MUD MATERIALS ADDED**  
 Product Amount Type

**TIME LOG**  
 From To Etaged Code Details of Operations in Sequence & Remarks

**SAFETY**  
 Safety Topic MENT MACP

**START TIME** **END TIME**



**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110315\_1A Vendor Software Version Pason Year 2011 Month 03 Day 15



|  |  |  |                    |                                    |                                      |
|--|--|--|--------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOSH BLINSTON | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |



Pason

TOUR **1** MUD TYPE **POLYMER** WATER  OIL  OTHER

|                    | Time                 | 02:00     | 06:00     | 10:00     |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            |                      | 1040kg/m3 | 1040kg/m3 | 1030kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   |                      | 40s/l     | 36s/l     | 37s/l     |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         |                      | 6.0cm3    | 6.0cm3    | 6cm3      |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           |                      | 10.5      | 10.0      | 9         |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample |                      | SHAKER    | SHAKER    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              |                      | 2342m     | 2374m     | 2400m     |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                |                      | 33.1m3    | 38m3      | 32.9m3    |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |           |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110315\_1A Vendor Software Version Pason Year 2011 Month 03 Day 15



License No 2073 Well Name PARA ET CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30W Prov NT Loc Type LAT-LONG Unique Well Id 302H036010117300

Operator PARAMOUNT RESOURCES LTD. Contractor NABORS DRILLING Rig No 24 Well Type HORIZ Re-Entry   
 Operator's AFE 10N110009 Contractor's Job No C6473 Spud Date Time 2011/02/18 03:00  
 Signature of Operator Representative JOSH BLINSTON Signature of Contractor's Rig Manager MICHAEL NUGENT Rig Release Date Time



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |  |  |  |  |  |  |  |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|--|--|--|--|--|--|--|--|
| 2      |                      | POLYMER   |           |           | x     |  |     |  |       |  |  |  |  |  |  |  |  |  |
| Time   | 14:00                | 18:00     | 22:00     |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | Density              | 1020kg/m3 | 1030kg/m3 | 1030kg/m3 |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | Funnel Viscosity     | 38s/l     | 39s/l     | 38s/l     |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | Fluid Loss           | 7cm3      | 7cm3      | 7.0cm3    |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | Fluid pH             | 11        | 11        | 10.5      |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | Depth                | 2445m     | 2475m     | 2501m     |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | PVT                  | 26m3      | 23m3      | 35.4m3    |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |
|        | Value                |           |           |           |       |  |     |  |       |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**FRONT PAGE SUMMARY**

License No 2073 Well Name PAPA ET CAMERON 2H-03 HZ  
 Operator PAPA/MOUNTAIN RESOURCES LTD.  
 Operator's A/E  
 10/01/2009  
 Signature of Operator Representative WILLIAMS

Your Sheet Serial Number 2011  
 Surface Location 60 02 20 40N117 20 06 30W  
 Vendor Software Version 2011  
 From 18170116  
 To 20110218 03:00  
 Loc Type LAT/LONG  
 Rpt No 24  
 HORIZ  
 Send Date Time 2011/02/18 03:00  
 Signature of Contractor's Rig Manager MICHAEL MCKENZIE

Month 03  
 Day 18  
 7) No Job Record Suspended (Job Code 10)  
 8) No Job Record Suspended (Job Code 10)  
 9) No Job Record Suspended (Job Code 10)  
 4) No License & S&S Designated  
 6) No Data Returned  
 7) No Job Record Suspended - (See Lines 4 & 5)  
 1) Rig Stop (Hours & Shifts) (see comments)  
 2) No Job Record Suspended (see comments)  
 3) No Job Record Suspended (see comments)  
 4) No Job Record Suspended (see comments)



| CODE   | 1  | 2    | 3    | 4    | 5     | 6     | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | TOTAL |       |
|--------|----|------|------|------|-------|-------|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|
| Hour 1 | 10 | 2:25 | 0:50 | 0:74 | 8:74  | 10:74 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 12:00 |
| Hour 2 |    |      | 0:50 | 0:74 | 10:74 |       |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 12:00 |
| Hour 3 |    |      |      | 0:74 | 11:50 |       |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 12:00 |
| Total  |    | 2:25 | 0:50 | 0:74 | 11:50 |       |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 24:00 |

**WEATHER**

|            |         |
|------------|---------|
| Temp       | 15.00   |
| Wind       | 0.00    |
| Pressure   | 1013.00 |
| Humidity   | 75.00   |
| Clouds     | 0.00    |
| Visibility | 10.00   |

**TOUR 1 SIGNATURE OF DRILLER**

KOS AN

START TIME 00:00

END TIME 12:00

| BITS                     |          | DRILLING ASSEMBLY |            | MUD RECORD       |                | DEVIATION SURVEYS  |       | TIME LOG |       | SAFETY |         |         |  |
|--------------------------|----------|-------------------|------------|------------------|----------------|--------------------|-------|----------|-------|--------|---------|---------|--|
| Bit Number               | 7        | No                | Component  | OO ID            | Length         | Mud Type           | Water | Oil      | From  | To     | Entered | Code    | Details of Operations in Sequence & Remarks  |
| Size                     | 156      | Bit               |            | 154.0            | 0.13m          | Other              |       |          | 00:00 | 02:14  | 2:52    | 2:52    | DRILL 156MM HOLE FROM 2525M-2534M  |
| UAC Code                 | S 1 3 2  | Motor             | U.S.       | 102.64           | 7.56m          | Time               |       |          | 02:14 | 03:00  | 0:75:00 | 0:75:00 | CIRCULATE MORTON'S PREHEAT SLICK AND WEIGHTED PULS. REFRESH AND TO TRIP OUT OF THE HOLE                                |
| Manufacturer             | ALTERVA  | Injection         | SLB        | 120.0            | 0.85m          | Density            |       |          | 03:00 | 07:04  | 0:40:58 | 0:40:58 | TRIP OUT OF HOLE FROM 2534M-2534M AT LOW CHECK @ 2527M 2420M 1530M   |
| Type                     | HS020313 | MONEL             | FLX        | 120.06           | 0.93m          | Fluid Loss         |       |          | 07:04 | 07:35  | 0:32:31 | 0:32:31 | SAFETY MEETING WITH BOTH CREWS   |
| Serial No                |          | MONEL             | FLX        | 121.08           | 0.93m          | Location of Sample |       |          | 07:35 | 12:00  | 4:25:33 | 4:25:33 | TRIP OUT OF HOLE FROM 1534M-1534M AT OUT SINGLES TO CATWALK FLOW CHECK @ 1170M (OOL/DLC 7.20M) MESA 13.29M, DIFC 6.92M |
| JBS                      |          | MONEL             | FLX        | 120.06           | 0.93m          | pH                 |       |          |       |        |         |         |  |
| Depth Out (m)            | 2534     |                   |            | 120.06           | 0.93m          | PT                 |       |          |       |        |         |         |  |
| Depth In (m)             | 2022     |                   |            | 102.64           | 0.65m          | Location of Sample |       |          |       |        |         |         |  |
| Total Drilled (m)        | 452      |                   |            | 102.64           | 0.65m          | PT                 |       |          |       |        |         |         |  |
| Her Run Today            | 2:25     |                   |            | 102.64           | 0.65m          | Pressure           |       |          |       |        |         |         |  |
| Commutative Her Run      | 49:25    |                   |            | 102.64           | 0.65m          | Pressure           |       |          |       |        |         |         |  |
| Entry Date               | 20110211 |                   |            | 102.64           | 0.65m          | Pressure           |       |          |       |        |         |         |  |
| <b>CUTTING STRUCTURE</b> |          | 100.0 Drill Pipe  |            | Stands 11005.21m |                |                    |       |          |       |        |         |         |  |
| TI                       | 3        | Gage              | 0          | 100.0            | 0.00m          | Remarks:           |       |          |       |        |         |         |  |
| TO                       | 4        | DOC               | CT         | Kelly Down       | 6.24m          |                    |       |          |       |        |         |         |  |
| MOC                      | WT       | Reason Pulled     | TD         | Total            | 2534.00m       |                    |       |          |       |        |         |         |  |
| LOC                      | S        | Total Run (m/h)   | 7.63       | Weight of DIC    | 59.04m         |                    |       |          |       |        |         |         |  |
| BRG                      | X        |                   |            |                  |                |                    |       |          |       |        |         |         |  |
| <b>METRES DRILLED</b>    |          | Hole Drag         |            | 16.75            |                |                    |       |          |       |        |         |         |  |
| From                     | 10       | D-H-C             | FRM        | WOB              | Time at Bottom |                    |       |          |       |        |         |         |  |
|                          | 2525m    | DRILL             | 40.120m/km |                  | 6700.00m       |                    |       |          |       |        |         |         |  |
|                          |          |                   |            |                  | 0.00m          |                    |       |          |       |        |         |         |  |
|                          |          |                   |            |                  | 0.00m          |                    |       |          |       |        |         |         |  |

**TOUR 2 SIGNATURE OF DRILLER**

TMA BROCKE

START TIME 12:00

END TIME 24:00

| BITS                     |            | DRILLING ASSEMBLY |           | MUD RECORD    |                | DEVIATION SURVEYS  |       | TIME LOG |       | SAFETY |         |         |   |
|--------------------------|------------|-------------------|-----------|---------------|----------------|--------------------|-------|----------|-------|--------|---------|---------|---|
| Bit Number               | 7          | No                | Component | OO ID         | Length         | Mud Type           | Water | Oil      | From  | To     | Entered | Code    | Details of Operations in Sequence & Remarks   |
| Size                     | 156        | Bit               |           | 154.0         | 0.13m          | Other              |       |          | 12:00 | 12:45  | 0:75:58 | 0:75:58 | TRIP OUT OF HOLE CONT. LAYING OUT SINGLES TO CATWALK LAY OUT DIRECTIONAL TOOLS & RIG OUTWARD EQUIPMENT  |
| UAC Code                 | S 1 3 2    | Bit Sub           |           | 102.64        | 0.27m          | Density            |       |          | 12:45 | 14:00  | 1:28:50 | 1:28:50 | SAFETY MEETING IN COL. RIG. RIG CREW AND LOGGERS FROM TO PACKING UP MESSHALL                            |
| Manufacturer             | ALTERVA    | SPH41.07          |           | 102.64        | 0.27m          | Fluid Loss         |       |          | 14:00 | 14:15  | 0:25:11 | 0:25:11 | SAFETY MEETING IN COL. RIG. RIG CREW AND LOGGERS FROM TO PACKING UP MESSHALL                            |
| Type                     | HS020313   | REGULAR           | TRIP BLD  | 154.0         | 0.13m          | pH                 |       |          | 14:15 | 15:00  | 0:75:58 | 0:75:58 | MAKE UP BIT & BHA, TRIP FROM SURFACE TO 35M   |
| Serial No                |            | SPH41.07          |           | 102.64        | 0.27m          | Location of Sample |       |          | 15:00 | 15:15  | 0:25:11 | 0:25:11 | SAFETY MEETING WITH BOTH CREWS  |
| JBS                      |            | COUPOUR           | COUPLER   | 127.66        | 4.72m          | PT                 |       |          | 15:15 | 22:00  | 7:25:34 | 7:25:34 | TRIP IN HOLE FROM 35M TO 1534M. FILL PIPE AND FLOW CHECK @ 300M. 1159M DRIFT PIPE AND STRIP IN THE HOLE |
| Depth Out (m)            | 1627       |                   |           | 102.64        | 0.46m          | Pressure           |       |          | 22:00 | 23:35  | 0:25:31 | 0:25:31 | SAFETY MEETING WITH BOTH CREWS  |
| Depth In (m)             | 1627       |                   |           | 102.64        | 0.46m          | Pressure           |       |          | 23:35 | 23:35  | 0:25:31 | 0:25:31 | TRIP IN HOLE FROM 1534M-1534M FLOW CHECK @ 1027M  |
| Total Drilled (m)        | 14         |                   |           | 102.64        | 0.46m          | Pressure           |       |          | 23:35 | 24:00  | 0:50:04 | 0:50:04 | PS&M & CLEAN 1534M HOLE FROM 1519M 1534M DRIFT EACH SINGLE AS IT IS PACKED UP FROM CATWALK              |
| Her Run Today            | 0:50       |                   |           | 102.64        | 0.46m          | Pressure           |       |          |       |        |         |         |   |
| Commutative Her Run      | 53:10:21.1 |                   |           | 102.64        | 0.46m          | Pressure           |       |          |       |        |         |         |   |
| Entry Date               | 20110211   |                   |           | 102.64        | 0.46m          | Pressure           |       |          |       |        |         |         |   |
| <b>CUTTING STRUCTURE</b> |            | 100.0 Drill Pipe  |           | Stands 0.00m  |                |                    |       |          |       |        |         |         |   |
| TI                       | 3          | Gage              | 0         | 100.0         | 0.00m          | Remarks:           |       |          |       |        |         |         |   |
| TO                       | 4          | DOC               | CT        | Kelly Down    | 4.56m          |                    |       |          |       |        |         |         |   |
| MOC                      | WT         | Reason Pulled     | TD        | Total         | 1635.00m       |                    |       |          |       |        |         |         |   |
| LOC                      | S          | Total Run (m/h)   | 1.00      | Weight of DIC | 1635.00m       |                    |       |          |       |        |         |         |   |
| BRG                      | X          |                   |           |               |                |                    |       |          |       |        |         |         |   |
| <b>METRES DRILLED</b>    |            | Hole Drag         |           | 16.75         |                |                    |       |          |       |        |         |         |   |
| From                     | 10         | D-H-C             | FRM       | WOB           | Time at Bottom |                    |       |          |       |        |         |         |   |
|                          | 1627m      | DRILL             | 51.20m/km |               | 1950.00m       |                    |       |          |       |        |         |         |   |
|                          |            |                   |           |               | 0.00m          |                    |       |          |       |        |         |         |   |
|                          |            |                   |           |               | 0.00m          |                    |       |          |       |        |         |         |   |

**TOUR 3 SIGNATURE OF DRILLER**

START TIME

END TIME

| BITS                     |    | DRILLING ASSEMBLY |           | MUD RECORD    |                | DEVIATION SURVEYS  |       | TIME LOG |      | SAFETY |         |      |   |
|--------------------------|----|-------------------|-----------|---------------|----------------|--------------------|-------|----------|------|--------|---------|------|---|
| Bit Number               |    | No                | Component | OO ID         | Length         | Mud Type           | Water | Oil      | From | To     | Entered | Code | Details of Operations in Sequence & Remarks |
| Size                     |    |                   |           |               |                | Other              |       |          |      |        |         |      |   |
| UAC Code                 |    |                   |           |               |                | Density            |       |          |      |        |         |      |   |
| Manufacturer             |    |                   |           |               |                | Fluid Loss         |       |          |      |        |         |      |   |
| Type                     |    |                   |           |               |                | pH                 |       |          |      |        |         |      |   |
| Serial No                |    |                   |           |               |                | Location of Sample |       |          |      |        |         |      |   |
| JBS                      |    |                   |           |               |                | PT                 |       |          |      |        |         |      |   |
| Depth Out (m)            |    |                   |           |               |                | Pressure           |       |          |      |        |         |      |   |
| Depth In (m)             |    |                   |           |               |                | Pressure           |       |          |      |        |         |      |   |
| Total Drilled (m)        |    |                   |           |               |                | Pressure           |       |          |      |        |         |      |   |
| Her Run Today            |    |                   |           |               |                | Pressure           |       |          |      |        |         |      |   |
| Commutative Her Run      |    |                   |           |               |                | Pressure           |       |          |      |        |         |      |   |
| Entry Date               |    |                   |           |               |                | Pressure           |       |          |      |        |         |      |   |
| <b>CUTTING STRUCTURE</b> |    | 100.0 Drill Pipe  |           | Stands 0.00m  |                |                    |       |          |      |        |         |      |   |
| TI                       | 3  | Gage              | 0         | 100.0         | 0.00m          | Remarks:           |       |          |      |        |         |      |   |
| TO                       | 4  | DOC               | CT        | Kelly Down    | 0.00m          |                    |       |          |      |        |         |      |   |
| MOC                      | WT | Reason Pulled     | TD        | Total         | 0.00m          |                    |       |          |      |        |         |      |   |
| LOC                      | S  | Total Run (m/h)   |           | Weight of DIC | 0.00m          |                    |       |          |      |        |         |      |   |
| BRG                      | X  |                   |           |               |                |                    |       |          |      |        |         |      |   |
| <b>METRES DRILLED</b>    |    | Hole Drag         |           | 16.75         |                |                    |       |          |      |        |         |      |   |
| From                     | 10 | D-H-C             | FRM       | WOB           | Time at Bottom |                    |       |          |      |        |         |      |   |
|                          |    |                   |           |               | 0.00m          |                    |       |          |      |        |         |      |   |
|                          |    |                   |           |               | 0.00m          |                    |       |          |      |        |         |      |   |

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

|   |   |  |                    |                                      |                                    |
|---|---|--|--------------------|--------------------------------------|------------------------------------|
| Tour Sheet Serial No<br>0X8424 20110316 1A            | Vendor Software Version<br>Pason                        | Year<br>2011                                   | Month<br>03        | Day<br>16                            |                                    |
| License No<br>2073                                    | Well Name<br>PARA ET CAMERON 2H-03 HZ                   | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG                 | Unique Well Id<br>302H036010117300 |
| Operator<br>PARAMOUNT RESOURCES LTD.                  | Contractor<br>NABORS DRILLING                           | Rig No<br>24                                   | Well Type<br>HORIZ | Re-Entry<br><input type="checkbox"/> |                                    |
| Operator's AFE<br>10N110009                           | Contractor's Job No<br>C6473                            | Spud Date Time<br>2011/02/18 03:00             |                    | Rig Release Date Time                |                                    |
| Signature of Operator Representative<br>JOHN WILLIAMS | Signature of Contractor's Rig Manager<br>MICHAEL NUGENT |  |                    |                                      |                                    |



| DRILLING ASSEMBLY |                  |         |       |         | DRILLING ASSEMBLY |                   |         |       |         | DRILLING ASSEMBLY |                  |         |    |        |
|-------------------|------------------|---------|-------|---------|-------------------|-------------------|---------|-------|---------|-------------------|------------------|---------|----|--------|
| TOUR 1            |                  |         |       |         | TOUR 2            |                   |         |       |         | TOUR              |                  |         |    |        |
| No                | Component        | OD      | ID    | Length  | No                | Component         | OD      | ID    | Length  | No                | Component        | OD      | ID | Length |
| 1                 | BIT              | 156     | 0.00  | 0.13    | 1                 | BIT               | 156.00  | 0.00  | 0.13    |                   |                  |         |    |        |
| 1                 | MOTOR LS         | 102.00  | 64.00 | 7.56    | 1                 | BIT SUB           | 142.00  | 50.00 | 0.92    |                   |                  |         |    |        |
| 1                 | ORIENT SUB       | 120     | 0.00  | 0.85    | 1                 | DP(4.0")          | 102.00  | 84.00 | 9.37    |                   |                  |         |    |        |
| 1                 | MONEL FLEX       | 120.00  | 68.00 | 9.35    | 1                 | REAMR-TPR BLD     | 156.00  | 62.00 | 1.55    |                   |                  |         |    |        |
| 1                 | MONEL FLEX       | 121.00  | 68.00 | 9.31    | 1                 | DP(4.0")          | 102.00  | 64.00 | 9.63    |                   |                  |         |    |        |
| 1                 | MONEL FLEX       | 120.00  | 68.00 | 9.19    | 1                 | X/O               | 102.00  | 64.00 | 0.50    |                   |                  |         |    |        |
| 1                 | DP(4.0")         | 102.00  | 84.00 | 9.60    | 1                 | COMPOSIT COLLAR   | 127.00  | 68.00 | 5.38    |                   |                  |         |    |        |
| 1                 | 2 SINGLES        | 102.00  | 84.00 | 9.65    | 1                 | STEEL DC          | 127.00  | 68.00 | 4.73    |                   |                  |         |    |        |
| 1                 | JARS-HYD/MECH    | 102.00  | 64.00 | 5.35    | 1                 | STEEL DC X/O      | 102.00  | 64.00 | 0.48    |                   |                  |         |    |        |
| 1                 | 120 SINGLES      | 102.00  | 84.00 | 0.00    | 1                 | DP(4.0")          | 102.00  | 64.00 | 9.67    |                   |                  |         |    |        |
| 50                | HWDP(4.0 IN)     | 102.00  | 64.00 | 467.93  | 1                 | JARS-MECH         | 102.00  | 64.00 | 5.35    |                   |                  |         |    |        |
| 10                | HWDP(4.0 IN)     | 102.00  | 64.00 | 93.63   | 1                 | 56 STDS DP (4.0") | 102.00  | 64.00 | 1067.98 |                   |                  |         |    |        |
|                   |                  |         |       |         | 55                | HWDP(4.0 IN)      | 102.00  | 64.00 | 514.73  |                   |                  |         |    |        |
|                   |                  |         |       |         |                   |                   |         |       |         |                   |                  |         |    |        |
|                   |                  |         |       |         |                   |                   |         |       |         |                   |                  |         |    |        |
|                   |                  |         |       |         |                   |                   |         |       |         |                   |                  |         |    |        |
|                   |                  |         |       |         |                   |                   |         |       |         |                   |                  |         |    |        |
|                   |                  |         |       |         |                   |                   |         |       |         |                   |                  |         |    |        |
|                   |                  |         |       |         |                   |                   |         |       |         |                   |                  |         |    |        |
|                   |                  |         |       |         |                   |                   |         |       |         |                   |                  |         |    |        |
|                   |                  |         |       |         |                   |                   |         |       |         |                   |                  |         |    |        |
| 100               | Drill Pipe       | Stands  |       | 1905.21 | 0                 | Drill Pipe        | Stands  |       | 0.00    |                   | Drill Pipe       | Stands  |    |        |
| 0                 | Drill Pipe       | Singles |       | 0.00    | 0                 | Drill Pipe        | Singles |       | 0.00    |                   | Drill Pipe       | Singles |    |        |
|                   | Kelly Down       |         |       | 6.24    |                   | Kelly Down        |         |       | 4.58    |                   | Kelly Down       |         |    |        |
|                   | Total            |         |       | 2534.00 |                   | Total             |         |       | 1635.00 |                   | Total            |         |    |        |
|                   | Weight of DC     |         |       |         |                   | Weight of DC      |         |       |         |                   | Weight of DC     |         |    |        |
|                   | Weight of String |         |       | 50.00   |                   | Weight of String  |         |       | 49.00   |                   | Weight of String |         |    |        |

| SPECIAL EVENTS |            |   |       |       |
|----------------|------------|---|-------|-------|
| Tour No.       | Event No.  | Description                                 | Time  | Depth |
| 1              | JSA REVIEW | B-87 PIPE SPINNER IN USE                    | 00:00 |       |
| 2              | JSA REVIEW | D-14 CLIMBING DERRICK, B-66 PICK UP REAMERS | 19:00 |       |
|                |            |   |       |       |
|                |            |   |       |       |
|                |            |   |       |       |
|                |            |   |       |       |





**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424 20110317 1A Vendor Software Version Pason Year 2011 Month 03 Day 17

|  |                                       |  |              |                                    |                                      |
|--|---------------------------------------|--|--------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30W   | Prov<br>NT   | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOHN WILLIAMS |                                       | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |
|  |                                       |  |              | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |



Pason

| DRILLING ASSEMBLY TOUR 1 |                   |        |         |         | DRILLING ASSEMBLY TOUR 2 |                   |        |         |         | DRILLING ASSEMBLY TOUR |                  |    |         |        |
|--------------------------|-------------------|--------|---------|---------|--------------------------|-------------------|--------|---------|---------|------------------------|------------------|----|---------|--------|
| No                       | Component         | OD     | ID      | Length  | No                       | Component         | OD     | ID      | Length  | No                     | Component        | OD | ID      | Length |
| 1                        | BIT               | 156.00 | 0.00    | 0.13    | 1                        | BIT               | 156.00 | 0.00    | 0.13    |                        |                  |    |         |        |
| 1                        | BIT SUB           | 142.00 | 50.00   | 0.92    | 1                        | BIT SUB           | 142.00 | 50.00   | 0.92    |                        |                  |    |         |        |
| 1                        | DP(4.0")          | 102.00 | 84.00   | 9.37    | 1                        | DP(4.0")          | 102.00 | 84.00   | 9.37    |                        |                  |    |         |        |
| 1                        | REAMR-TPR BLD     | 156.00 | 62.00   | 1.55    | 1                        | REAMR-TPR BLD     | 156.00 | 62.00   | 1.55    |                        |                  |    |         |        |
| 1                        | DP(4.0")          | 102.00 | 64.00   | 9.63    | 1                        | DP(4.0")          | 102.00 | 64.00   | 9.63    |                        |                  |    |         |        |
| 1                        | X/O               | 102.00 | 64.00   | 0.50    | 1                        | X/O               | 102.00 | 64.00   | 0.50    |                        |                  |    |         |        |
| 1                        | COMPOSIT COLLAR   | 127.00 | 68.00   | 5.38    | 1                        | COMPOSIT COLLAR   | 127.00 | 68.00   | 5.38    |                        |                  |    |         |        |
| 1                        | STEEL DC          | 127.00 | 68.00   | 4.73    | 1                        | STEEL DC          | 127.00 | 68.00   | 4.73    |                        |                  |    |         |        |
| 1                        | STEEL DC X/O      | 102.00 | 64.00   | 0.48    | 1                        | STEEL DC X/O      | 102.00 | 64.00   | 0.48    |                        |                  |    |         |        |
| 1                        | DP(4.0")          | 102.00 | 64.00   | 9.67    | 1                        | DP(4.0")          | 102.00 | 64.00   | 9.67    |                        |                  |    |         |        |
| 1                        | JARS-MECH         | 102.00 | 64.00   | 5.35    | 1                        | JARS-MECH         | 102.00 | 64.00   | 5.35    |                        |                  |    |         |        |
| 1                        | 56 STDS DP (4.0") | 102.00 | 64.00   | 1067.98 | 1                        | 56 STDS DP (4.0") | 102.00 | 64.00   | 1067.98 |                        |                  |    |         |        |
| 49                       | HWDP(4.0 IN)      | 102.00 | 64.00   | 458.55  | 49                       | HWDP(4.0 IN)      | 102.00 | 64.00   | 458.55  |                        |                  |    |         |        |
| 11                       | HWDP(4.0 IN)      | 102.00 | 64.00   | 102.98  | 11                       | HWDP(4.0 IN)      | 102.00 | 64.00   | 102.98  |                        |                  |    |         |        |
|                          |                   |        |         |         |                          |                   |        |         |         |                        |                  |    |         |        |
|                          |                   |        |         |         |                          |                   |        |         |         |                        |                  |    |         |        |
|                          |                   |        |         |         |                          |                   |        |         |         |                        |                  |    |         |        |
|                          |                   |        |         |         |                          |                   |        |         |         |                        |                  |    |         |        |
| 11                       | Drill Pipe        |        | Stands  | 208.58  | 28                       | Drill Pipe        |        | Stands  | 531.24  |                        | Drill Pipe       |    | Stands  |        |
| 1                        | Drill Pipe        |        | Singles | 9.19    | 1                        | Drill Pipe        |        | Singles | 9.63    |                        | Drill Pipe       |    | Singles |        |
|                          | Kelly Down        |        |         | 3.10    |                          | Kelly Down        |        |         | 10.47   |                        | Kelly Down       |    |         |        |
|                          | Total             |        |         | 1898.09 |                          | Total             |        |         | 2228.56 |                        | Total            |    |         |        |
|                          | Weight of DC      |        |         |         |                          | Weight of DC      |        |         |         |                        | Weight of DC     |    |         |        |
|                          | Weight of String  |        |         | 51.00   |                          | Weight of String  |        |         | 50.00   |                        | Weight of String |    |         |        |

| SPECIAL EVENTS |            |   |       |       |
|----------------|------------|---|-------|-------|
| Tour No.       | Event No.  | Description   | Time  | Depth |
| 1              | JSA REVIEW | A-17 POP VALVE REPAIR, A-2 BRING LUNCH TO DOG HOUSE | 07:00 |       |
| 2              | JSA REVIEW | B-35 RIG TONG OPS, B-37 TUGGER HANDLING             | 19:00 |       |
|                |            |   |       |       |
|                |            |   |       |       |
|                |            |   |       |       |
|                |            |   |       |       |

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110317\_1A Vendor Software Version Pason Year 2011 Month 03 Day 17



|  |  |  |                       |                                    |                                      |
|--|--|--|-----------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT            | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOHN WILLIAMS | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ    | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |
|  |  |  | Rig Release Date Time |                                    |                                      |



Pason

| TOUR   |                      | MUD TYPE  |           |           | WATER |  | OIL |  | OTHER |  |
|--------|----------------------|-----------|-----------|-----------|-------|--|-----|--|-------|--|
| 1      |                      | POLYMER   |           |           | x     |  |     |  |       |  |
| Time   | 04:00                | 06:00     | 10:00     |           |       |  |     |  |       |  |
|        | Density              | 1030kg/m3 | 1020kg/m3 | 1040kg/m3 |       |  |     |  |       |  |
|        | Funnel Viscosity     | 37s/l     | 39s/l     | 39s/l     |       |  |     |  |       |  |
|        | Fluid Loss           | 6.5cm3    | 7cm3      | 7.5cm3    |       |  |     |  |       |  |
|        | Fluid pH             | 10        | 10.5      | 10.5      |       |  |     |  |       |  |
|        | Location of Sample   | SHAKER    | SHAKER    | SHAKER    |       |  |     |  |       |  |
|        | Depth                |           |           |           |       |  |     |  |       |  |
| PVT    |                      |           | 34m3      |           |       |  |     |  |       |  |
| Test 1 | Type (Ex: Chlorides) |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 2 | Type (ex: Sand%)     |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 3 | Type (ex: Hard Ca)   |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |
| Test 4 | Type (ex: Sulfides)  |           |           |           |       |  |     |  |       |  |
|        | Value                |           |           |           |       |  |     |  |       |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No: 0X8424\_20110317\_1A  
 Vendor Software Version: Pason  
 Year: 2011, Month: 03, Day: 17



|  |  |  |                       |                                    |                                      |
|--|--|--|-----------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT            | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOHN WILLIAMS | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ    | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |
|  |  |  | Rig Release Date Time |                                    |                                      |



Pason

TOUR **2** MUD TYPE **POLYMER** WATER  OIL  OTHER

|                    | Time                 | 14:00     | 21:30     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            |                      | 1045kg/m3 | 1050kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   |                      | 38s/l     | 42s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         |                      | 8cm3      | 7cm3      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           |                      | 10.5      | 10        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample |                      | SHAKER    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**FRONT PAGE SUMMARY**

|                                      |                         |                                       |                          |                          |                           |                         |        |       |       |                |               |
|--------------------------------------|-------------------------|---------------------------------------|--------------------------|--------------------------|---------------------------|-------------------------|--------|-------|-------|----------------|---------------|
| License No                           | 2073                    | Well Name                             | PARA ET CAMERON 2H-01 HZ | Tour Sheet Serial Number | MS44_20110318_1.A         | Vendor Software Version | 2011   | Month | 03    | Day            | 18            |
| Operator                             | PRENUMONT RESOURCES LTD | Contractor                            | MAJORIS DRILLING         | Surface Location         | 60-02-20-N04-11-20-06-20W | Person                  | Person | Year  | 2011  | Unique Well ID | 20110218-0300 |
| Operator's AFE                       | 101110009               | Contractor's Job No                   | CD473                    | Reg No                   | LAT-LONG                  | Reg No                  | 24     | Lat   | 43.00 | Long           | 112.90        |
| Signature of Operator Representative | WILLIAMS                | Signature of Contractor's Rig Manager | MICHAEL WILBERT          | Send Date Time           | 2011-02-18 03:00          | Rig Release Date Time   |        |       |       |                |               |

| CODE               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|--------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| DRILL              |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| REMAINING          |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| CONV & CIRC        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| TYPES              |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| RIG                |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SERVICE            |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| WEATHER            |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| FUEL @ 68.00 HOURS |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| TOTAL              |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**WEATHER**

|           |       |            |       |
|-----------|-------|------------|-------|
| Temp      | 9.00  | Wind       | 0.00  |
| Humidity  | 96.00 | Pressure   | 29.86 |
| Clouds    | 0.00  | Visibility | 10.00 |
| Wind Dir  | 0.00  | Wind Spd   | 0.00  |
| Wind Gust | 0.00  | Wave Hgt   | 0.00  |
| Wave Dir  | 0.00  | Wave Per   | 0.00  |
| Wave Len  | 0.00  | Wave Per   | 0.00  |
| Wave Len  | 0.00  | Wave Per   | 0.00  |



**TOUR 1 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**

|                   |           |                  |                   |         |         |         |
|-------------------|-----------|------------------|-------------------|---------|---------|---------|
| BR Number         | 7         | No               | Component         | OD      | ID      | Length  |
| Size              | 156       | BIT              | BIT SUB           | 142.90  | 0       | 0.20m   |
| MLOC Code         | S 1 1 3 2 | SPK4 L7          | 142.90            | 94.327m |         |         |
| Manufacturer      | ULTEBRA   | REGRABT 1795 BLD | 194               | 62      | 1.56m   |         |
| Type              | ES500513  | SPK4 L7          | 102               | 64      | 9.63m   |         |
| Serial No         | 0663      | YAO              | 102               | 64      | 0.50m   |         |
| Jobs              |           | ICOMANOR COLMAN  | 127               | 64      | 5.38m   |         |
| Depth Out (m)     |           | 18 STEEL DC MO   | 102               | 64      | 0.48m   |         |
| Depth In (m)      |           | 903              | 102               | 64      | 9.67m   |         |
| Total Drilled (m) |           | 11.75            | 480WDC4 0 N       | 102     | 64      | 488.55m |
| On Run Today      |           | 23.75            | 982 STDS DP 4L 07 | 102     | 64      | 100.98m |
| On Run Today      |           | 23.75            | 44 Drill Pipe     | Spends  | 636.26m |         |
| On Run Today      |           | 23.75            | 44 Drill Pipe     | Spends  | 0.00m   |         |
| On Run Today      |           | 23.75            | 44 Drill Pipe     | Spends  | 0.00m   |         |

**MUD RECORD**

|                    |           |        |          |
|--------------------|-----------|--------|----------|
| Mud Type           | Water     | Oil    |          |
| Time               | 02:00     | 06:00  |          |
| Density            | 1030      | 1030   |          |
| Funnel Viscosity   | 4250      | 4250   |          |
| Ruid Loss          | 7cm5      | 7cm5   |          |
| pH                 | 10.5      | 10.5   |          |
| Location of Sample | SHAKER    | SHAKER |          |
| Depth              | PVT       | 34.5m  |          |
| PVT                | 34.5m     | 32.2m  |          |
| Prep Type          | Low Shear | SM     | Pressure |
| Sample             | 127       | 128    | 8100     |
| Time               | 11:17     |        |          |

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
|                |           |                |                   |                    |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**TIME LOG**

| From  | To    | Elapsed | Code                           | Details of Operations in Sequence & Remarks |
|-------|-------|---------|--------------------------------|---|
| 00:00 | 07:00 | 7.00h   | BEAM & CLEAN FROM 225M TO 241M |   |
| 07:00 | 07:15 | 0.25h   | SAFETY MEETING WITH BOTH CREWS |   |
| 07:15 | 12:00 | 4.75h   | BEAM & CLEAN FROM 241M TO 255M |   |

**SAFETY**

|              |        |         |
|--------------|--------|---------|
| Safety Topic | MEL    | MACP    |
|              | 60.00h | 1120.0h |

**TOUR 2 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**

|                   |           |                  |                   |         |         |         |
|-------------------|-----------|------------------|-------------------|---------|---------|---------|
| BR Number         | 7         | No               | Component         | OD      | ID      | Length  |
| Size              | 156       | BIT              | BIT SUB           | 142.90  | 0       | 0.20m   |
| MLOC Code         | S 1 1 3 2 | SPK4 L7          | 142.90            | 94.327m |         |         |
| Manufacturer      | ULTEBRA   | REGRABT 1795 BLD | 194               | 62      | 1.56m   |         |
| Type              | ES500513  | SPK4 L7          | 102               | 64      | 9.63m   |         |
| Serial No         | 0663      | YAO              | 102               | 64      | 0.50m   |         |
| Jobs              |           | ICOMANOR COLMAN  | 127               | 64      | 5.38m   |         |
| Depth Out (m)     |           | 25.34            | 18 STEEL DC MO    | 102     | 64      | 4.73m   |
| Depth In (m)      |           | 1621             | 903               | 102     | 64      | 0.48m   |
| Total Drilled (m) |           | 913              | 480WDC4 0 N       | 102     | 64      | 9.67m   |
| On Run Today      |           | 1.50             | 982 STDS DP 4L 07 | 102     | 64      | 100.98m |
| On Run Today      |           | 1.50             | 480WDC4 0 N       | 102     | 64      | 488.55m |
| On Run Today      |           | 1.50             | 44 Drill Pipe     | Spends  | 536.26m |         |
| On Run Today      |           | 1.50             | 44 Drill Pipe     | Spends  | 0.00m   |         |
| On Run Today      |           | 1.50             | 44 Drill Pipe     | Spends  | 0.00m   |         |

**MUD RECORD**

|                    |           |         |          |
|--------------------|-----------|---------|----------|
| Mud Type           | Water     | Oil     |          |
| Time               | 14:00     | 18:00   |          |
| Density            | 1040      | 1040    |          |
| Funnel Viscosity   | 4250      | 4450    |          |
| Ruid Loss          | 7cm5      | 7cm5    |          |
| pH                 | 10.5      | 10.2    |          |
| Location of Sample | SHAKER    | SHAKERS |          |
| Depth              | PVT       | 29.7m   |          |
| PVT                | 29.7m     | 37m     |          |
| Prep Type          | Low Shear | SM      | Pressure |
| Sample             | 127       | 128     | 8100     |
| Time               | 17:17     |         |          |

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
|                |           |                |                   |                    |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**TIME LOG**

| From  | To    | Elapsed | Code   | Details of Operations in Sequence & Remarks |
|-------|-------|---------|--|---|
| 12:00 | 13:30 | 1.50h   | BEAM & CLEAN FROM 255M TO 255M                                 |   |
| 13:30 | 15:45 | 2.05h   | CIRCULATE HOLE CLEAN RIG UP DATALOG EQUIPMENT                  |   |
| 15:45 | 19:00 | 3.15h   | SAFETY MEETING WITH DATALOG AND CREW                           |   |
| 19:00 | 19:15 | 0.25h   | BEAM & CLEAN FROM 255M TO 255M                                 |   |
| 19:15 | 19:15 | 0.00h   | SAFETY MEETING WITH BOTH CREWS                                 |   |
| 19:15 | 24:00 | 4.75h   | LOGGING WHILE TRIPPING FROM 255M TO 1150M / FLOW CHECK @ 1150M |   |

**SAFETY**

|              |        |         |
|--------------|--------|---------|
| Safety Topic | MEL    | MACP    |
|              | 57.00h | 1120.0h |

**TOUR 3 SIGNATURE OF DRILLER**

**DRILLING ASSEMBLY**

|                   |  |    |           |    |    |        |
|-------------------|--|----|-----------|----|----|--------|
| BR Number         |  | No | Component | OD | ID | Length |
| Size              |  |    |           |    |    |        |
| MLOC Code         |  |    |           |    |    |        |
| Manufacturer      |  |    |           |    |    |        |
| Type              |  |    |           |    |    |        |
| Serial No         |  |    |           |    |    |        |
| Jobs              |  |    |           |    |    |        |
| Depth Out (m)     |  |    |           |    |    |        |
| Depth In (m)      |  |    |           |    |    |        |
| Total Drilled (m) |  |    |           |    |    |        |
| On Run Today      |  |    |           |    |    |        |
| On Run Today      |  |    |           |    |    |        |
| On Run Today      |  |    |           |    |    |        |

**MUD RECORD**

|                    |           |     |          |
|--------------------|-----------|-----|----------|
| Mud Type           | Water     | Oil |          |
| Time               |           |     |          |
| Density            |           |     |          |
| Funnel Viscosity   |           |     |          |
| Ruid Loss          |           |     |          |
| pH                 |           |     |          |
| Location of Sample |           |     |          |
| Depth              |           |     |          |
| PVT                |           |     |          |
| Prep Type          | Low Shear | SM  | Pressure |
| Sample             |           |     |          |
| Time               |           |     |          |

**DEVIATION SURVEYS**

| Time | Depth | Deviation | Direction | Type |
|------|-------|-----------|-----------|------|
|      |       |           |           |      |

**SOLIDS CONTROL**

| Equipment Name | Hours Run | Intake Density | Over Flow Density | Under Flow Density |
|----------------|-----------|----------------|-------------------|--------------------|
|                |           |                |                   |                    |

**MUD MATERIALS ADDED**

| Product | Amount | Type |
|---------|--------|------|
|         |        |      |

**TIME LOG**

| From | To | Elapsed | Code | Details of Operations in Sequence & Remarks |
|------|----|---------|------|---|
|      |    |         |      |   |

**SAFETY**

|              |        |         |
|--------------|--------|---------|
| Safety Topic | MEL    | MACP    |
|              | 57.00h | 1120.0h |

**DRILL ASSEMBLY & SPECIAL EVENTS - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424 20110318 1A Vendor Software Version Pason Year 2011 Month 03 Day 18

|  |                                       |  |              |                                    |                                      |
|--|---------------------------------------|--|--------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ | Surface Location<br>60:02:20.40N/117:30:06.30W   | Prov<br>NT   | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOHN WILLIAMS |                                       | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ                 | Re-Entry<br><input type="checkbox"/> |
|  |                                       |  |              | Spud Date Time<br>2011/02/18 03:00 | Rig Release Date Time                |



Pason

| DRILLING ASSEMBLY TOUR 1 |                   |        |         |         | DRILLING ASSEMBLY TOUR 2 |                   |        |         |         | DRILLING ASSEMBLY TOUR |                  |    |         |        |
|--------------------------|-------------------|--------|---------|---------|--------------------------|-------------------|--------|---------|---------|------------------------|------------------|----|---------|--------|
| No                       | Component         | OD     | ID      | Length  | No                       | Component         | OD     | ID      | Length  | No                     | Component        | OD | ID      | Length |
| 1                        | BIT               | 156.00 | 0.00    | 0.13    | 1                        | BIT               | 156.00 | 0.00    | 0.13    |                        |                  |    |         |        |
| 1                        | BIT SUB           | 142.00 | 50.00   | 0.92    | 1                        | BIT SUB           | 142.00 | 50.00   | 0.92    |                        |                  |    |         |        |
| 1                        | DP(4.0")          | 102.00 | 84.00   | 9.37    | 1                        | DP(4.0")          | 102.00 | 84.00   | 9.37    |                        |                  |    |         |        |
| 1                        | REAMR-TPR BLD     | 156.00 | 62.00   | 1.55    | 1                        | REAMR-TPR BLD     | 156.00 | 62.00   | 1.55    |                        |                  |    |         |        |
| 1                        | DP(4.0")          | 102.00 | 64.00   | 9.63    | 1                        | DP(4.0")          | 102.00 | 64.00   | 9.63    |                        |                  |    |         |        |
| 1                        | X/O               | 102.00 | 64.00   | 0.50    | 1                        | X/O               | 102.00 | 64.00   | 0.50    |                        |                  |    |         |        |
| 1                        | COMPOSIT COLLAR   | 127.00 | 68.00   | 5.38    | 1                        | COMPOSIT COLLAR   | 127.00 | 68.00   | 5.38    |                        |                  |    |         |        |
| 1                        | STEEL DC          | 127.00 | 68.00   | 4.73    | 1                        | STEEL DC          | 127.00 | 68.00   | 4.73    |                        |                  |    |         |        |
| 1                        | STEEL DC X/O      | 102.00 | 64.00   | 0.48    | 1                        | STEEL DC X/O      | 102.00 | 64.00   | 0.48    |                        |                  |    |         |        |
| 1                        | DP(4.0")          | 102.00 | 64.00   | 9.67    | 1                        | DP(4.0")          | 102.00 | 64.00   | 9.67    |                        |                  |    |         |        |
| 1                        | JARS-MECH         | 102.00 | 64.00   | 5.35    | 1                        | JARS-MECH         | 102.00 | 64.00   | 5.35    |                        |                  |    |         |        |
| 1                        | 56 STDS DP (4.0") | 102.00 | 64.00   | 1067.98 | 1                        | 56 STDS DP (4.0") | 102.00 | 64.00   | 1067.98 |                        |                  |    |         |        |
| 49                       | HWDP(4.0 IN)      | 102.00 | 64.00   | 458.55  | 49                       | HWDP(4.0 IN)      | 102.00 | 64.00   | 458.55  |                        |                  |    |         |        |
| 11                       | HWDP(4.0 IN)      | 102.00 | 64.00   | 102.98  | 11                       | HWDP(4.0 IN)      | 102.00 | 64.00   | 102.98  |                        |                  |    |         |        |
|                          |                   |        |         |         |                          |                   |        |         |         |                        |                  |    |         |        |
|                          |                   |        |         |         |                          |                   |        |         |         |                        |                  |    |         |        |
|                          |                   |        |         |         |                          |                   |        |         |         |                        |                  |    |         |        |
| 44                       | Drill Pipe        |        | Stands  | 836.26  | 44                       | Drill Pipe        |        | Stands  | 836.26  |                        | Drill Pipe       |    | Stands  |        |
| 0                        | Drill Pipe        |        | Singles | 0.00    | 0                        | Drill Pipe        |        | Singles | 0.00    |                        | Drill Pipe       |    | Singles |        |
|                          | Kelly Down        |        |         | 10.52   |                          | Kelly Down        |        |         | 10.52   |                        | Kelly Down       |    |         |        |
|                          | Total             |        |         | 2524.00 |                          | Total             |        |         | 2524.00 |                        | Total            |    |         |        |
|                          | Weight of DC      |        |         |         |                          | Weight of DC      |        |         |         |                        | Weight of DC     |    |         |        |
|                          | Weight of String  |        |         | 51.00   |                          | Weight of String  |        |         | 51.00   |                        | Weight of String |    |         |        |

| SPECIAL EVENTS |            |   |       |       |
|----------------|------------|---|-------|-------|
| Tour No.       | Event No.  | Description                             | Time  | Depth |
| 1              | JSA REVIEW | B-49 CHANGE OUT TONG DIE , B-82 LOGGING | 07:00 |       |
| 2              | JSA REVIEW | B-55 FLOW CHECK, B-44 TRIPPING PIPE OUT | 19:00 |       |
|                |            |   |       |       |
|                |            |   |       |       |
|                |            |   |       |       |
|                |            |   |       |       |

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110318\_1A Vendor Software Version Pason Year 2011 Month 03 Day 18

License No 2073 Well Name PARA ET CAMERON 2H-03 HZ Surface Location 60:02:20.40N/117:30:06.30W Prov NT Loc Type LAT-LONG Unique Well Id 302H036010117300

|  |  |              |   |                                      |
|--|--|--------------|---|--------------------------------------|
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOHN WILLIAMS | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24 | Well Type<br>HORIZ<br>Spud Date Time<br>2011/02/18 03:00<br>Rig Release Date Time | Re-Entry<br><input type="checkbox"/> |
|--|--|--------------|---|--------------------------------------|



Pason

**TOUR 1 MUD TYPE WATER x OIL OTHER**

| Time               | 02:00                | 06:00     | 10:00     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Density            | 1030kg/m3            | 1030kg/m3 | 1040kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 42s/l                | 43s/l     | 43s/l     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         | 7cm3                 | 7cm3      | 7cm3      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 10.5                 | 10.5      | 10.5      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SHAKER    | SHAKER    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              |                      |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                | 34.8m3               | 33.2m3    | 30.36m3   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**

**MUD SAMPLE - ADDITIONAL DATA**

Tour Sheet Serial No 0X8424\_20110318\_1A Vendor Software Version Pason Year 2011 Month 03 Day 18



|  |  |  |                    |                                    |                                      |
|--|--|--|--------------------|------------------------------------|--------------------------------------|
| License No<br>2073   | Well Name<br>PARA ET CAMERON 2H-03 HZ  | Surface Location<br>60:02:20.40N/117:30:06.30W | Prov<br>NT         | Loc Type<br>LAT-LONG               | Unique Well Id<br>302H036010117300   |
| Operator<br>PARAMOUNT RESOURCES LTD.<br>Operator's AFE<br>10N110009<br>Signature of Operator Representative<br>JOHN WILLIAMS | Contractor<br>NABORS DRILLING<br>Contractor's Job No<br>C6473<br>Signature of Contractor's Rig Manager<br>MICHAEL NUGENT | Rig No<br>24                                   | Well Type<br>HORIZ | Spud Date Time<br>2011/02/18 03:00 | Re-Entry<br><input type="checkbox"/> |
| Rig Release Date Time  |  |  |                    |                                    |                                      |



Pason

TOUR **2** MUD TYPE **POLYMER** WATER  OIL  OTHER

|                    | Time                 | 14:00   | 18:00     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----------------------|---------|-----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                    |                      | Density | 1040kg/m3 | 1040kg/m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Funnel Viscosity   | 42s/l                | 44s/l   |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid Loss         | 7cm3                 | 7cm3    |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid pH           | 10.5                 | 10.5    |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sample | SHAKER               | SHAKERS |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Depth              |                      |         |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PVT                | 29.70m3              | 37m3    |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 1             | Type (Ex: Chlorides) |         |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |         |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 2             | Type (ex: Sand%)     |         |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |         |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 3             | Type (ex: Hard Ca)   |         |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |         |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test 4             | Type (ex: Sulfides)  |         |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Value                |         |           |           |  |  |  |  |  |  |  |  |  |  |  |  |  |

**MUD SAMPLE REMARKS**







**FRONT PAGE SUMMARY**

|                                       |                          |                                       |                           |                         |           |                       |                |
|---------------------------------------|--------------------------|---------------------------------------|---------------------------|-------------------------|-----------|-----------------------|----------------|
| License No                            | Well Name                | Well Serial Number                    | Surface Location          | Vendor Software Version | Year      | Month                 | Day            |
| 2073                                  | PYRA ET CAMERON 2H-03-HZ | 30444_2073020_1A                      | 60-02-20-00W117-20-06-20W | Proton                  | 2011      | 03                    | 20             |
| Operator                              | Operator's P/E           | Operator                              | Contractor's Job No       | Prov                    | Loc Type  | Unique Well ID        | Reg-Entry      |
| PROBANCOURT RESOURCES LTD.            | 10w110009                | MARCO'S DRILLING                      | 06473                     | NT                      | LAT-LONG  | 2073020601017200      | 1              |
| Production of Operator Representative | WILLIAMS                 | Signature of Contractor's Rig Manager | MICHAEL MUCERT            | Rig No                  | Well Type | Send Date Time        | 20110218 03:00 |
|                                       |                          |                                       |                           | 24                      | HOZ-2     | Rig Release Date Time |                |

| CODE   | 1     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21   | 22   | 23 | 24 | 25 | DAILY CHECKS |                    | OP RM   |      |
|--------|-------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|------|------|----|----|----|--------------|--------------------|---------|------|
|        |       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |      |    |    |    | Dr           | Safety             | Washing | Rig  |
| Hours  | 1     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21   | 22   | 23 | 24 | 25 | TOTAL        | FUEL @ 08:00 HOURS | 0.00    | 0.00 |
| Hour 1 | 4.50  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 0.50 | 0.50 |    |    |    | 12.00        | 0.00               | 0.00    |      |
| Hour 2 | 7.00  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |      |    |    |    | 12.00        | 0.00               | 0.00    |      |
| Hour 3 | 7.00  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |      |    |    |    | 12.00        | 0.00               | 0.00    |      |
| Total  | 18.50 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1.00 | 1.00 |    |    |    | 36.00        | 0.00               | 0.00    |      |

|         |             |      |                   |                    |
|---------|-------------|------|-------------------|--------------------|
| WEATHER | TEMPERATURE | WIND | RELATIVE HUMIDITY | SEA LEVEL PRESSURE |
|         | 68.00       | 0.00 | 10.00             | 1013.00            |



TM RECORD

START TIME 00:00

END TIME 12:00

**TOUR 1 SIGNATURE OF DRILLER**

BR Number \_\_\_\_\_  
 Site \_\_\_\_\_  
 LLOC Code \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Type \_\_\_\_\_  
 Serial No \_\_\_\_\_  
 JSS \_\_\_\_\_

Depth Out (m) \_\_\_\_\_  
 Depth In (m) \_\_\_\_\_  
 Total Drilled (m) \_\_\_\_\_  
 In Run Today \_\_\_\_\_  
 Cumulative In Run Today \_\_\_\_\_  
 Entry Data \_\_\_\_\_

**CUTTING STRUCTURE**

TI \_\_\_\_\_  
 TO \_\_\_\_\_  
 MOC \_\_\_\_\_  
 LOC \_\_\_\_\_  
 BRG \_\_\_\_\_

Reason Pulled \_\_\_\_\_  
 Total Run (m/hr) \_\_\_\_\_

**DRILLING ASSEMBLY**

No. Component \_\_\_\_\_  
 OD ID \_\_\_\_\_  
 Length \_\_\_\_\_

Hole Drag  \_\_\_\_\_  
 Weight of String \_\_\_\_\_  
 Hoop at Bottom \_\_\_\_\_  
 Fil on Bottom \_\_\_\_\_

**MUD RECORD**

Mud Type \_\_\_\_\_  
 Other  \_\_\_\_\_  
 Time \_\_\_\_\_  
 Density \_\_\_\_\_  
 Funnel Viscosity \_\_\_\_\_  
 Fluid Loss \_\_\_\_\_  
 Location of Sample \_\_\_\_\_  
 PVT \_\_\_\_\_  
 PH \_\_\_\_\_

**CIRCULATION**

Pump Type \_\_\_\_\_  
 Type \_\_\_\_\_  
 Size \_\_\_\_\_  
 RPM \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Mud Wt \_\_\_\_\_  
 177 \_\_\_\_\_  
 60 \_\_\_\_\_  
 3000 \_\_\_\_\_  
 1 \_\_\_\_\_

Remarks: \_\_\_\_\_

**REDUCED PUMP SPEED**

Zung No. \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Stroke/Min \_\_\_\_\_  
 Depth \_\_\_\_\_

**DEVIATION SURVEYS**

Time \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Deviation \_\_\_\_\_  
 Direction \_\_\_\_\_  
 Type \_\_\_\_\_

**SOLIDS CONTROL**

Equipment Name \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 Intake Density \_\_\_\_\_  
 Under Flow Density \_\_\_\_\_

**MUD MATERIALS ADDED**

Product \_\_\_\_\_  
 Amount \_\_\_\_\_  
 Type \_\_\_\_\_

**Boiler**

Boiler # \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 pH \_\_\_\_\_  
 Stack Temp \_\_\_\_\_  
 260 \_\_\_\_\_

**TIME LOG**

From \_\_\_\_\_ To \_\_\_\_\_  
 12:00 14:30  
 14:30 15:30  
 15:30 15:45  
 15:45 16:00  
 16:00 16:05

Exposed Code \_\_\_\_\_  
 2-0172B  
 1-0012  
 0-2571  
 2-2912

Details of Operations in Sequence & Remarks  
 RIG UP TO RUM CASING & PACKER ASSEMBLY  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 980M  
 SAFETY MEETING WITH BOTH CREWS AND POWER TONG HAND  
 RUM CASING FROM 990M TO 1315M BREAK CIRCULATION @ 1515m

**SAFETY**

Safety Topic \_\_\_\_\_  
 MENT \_\_\_\_\_  
 MACP \_\_\_\_\_  
 1122M2A

**TOUR 2 SIGNATURE OF DRILLER**

BR Number \_\_\_\_\_  
 Site \_\_\_\_\_  
 LLOC Code \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Type \_\_\_\_\_  
 Serial No \_\_\_\_\_  
 JSS \_\_\_\_\_

Depth Out (m) \_\_\_\_\_  
 Depth In (m) \_\_\_\_\_  
 Total Drilled (m) \_\_\_\_\_  
 In Run Today \_\_\_\_\_  
 Cumulative In Run Today \_\_\_\_\_  
 Entry Data \_\_\_\_\_

**CUTTING STRUCTURE**

TI \_\_\_\_\_  
 TO \_\_\_\_\_  
 MOC \_\_\_\_\_  
 LOC \_\_\_\_\_  
 BRG \_\_\_\_\_

Reason Pulled \_\_\_\_\_  
 Total Run (m/hr) \_\_\_\_\_

**DRILLING ASSEMBLY**

No. Component \_\_\_\_\_  
 OD ID \_\_\_\_\_  
 Length \_\_\_\_\_

Hole Drag  \_\_\_\_\_  
 Weight of String \_\_\_\_\_  
 Hoop at Bottom \_\_\_\_\_  
 Fil on Bottom \_\_\_\_\_

**MUD RECORD**

Mud Type \_\_\_\_\_  
 Other  \_\_\_\_\_  
 Time \_\_\_\_\_  
 Density \_\_\_\_\_  
 Funnel Viscosity \_\_\_\_\_  
 Fluid Loss \_\_\_\_\_  
 Location of Sample \_\_\_\_\_  
 PVT \_\_\_\_\_  
 PH \_\_\_\_\_

**CIRCULATION**

Pump Type \_\_\_\_\_  
 Type \_\_\_\_\_  
 Size \_\_\_\_\_  
 RPM \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Mud Wt \_\_\_\_\_  
 177 \_\_\_\_\_  
 60 \_\_\_\_\_  
 3000 \_\_\_\_\_  
 1 \_\_\_\_\_

Remarks: \_\_\_\_\_

**REDUCED PUMP SPEED**

Zung No. \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Stroke/Min \_\_\_\_\_  
 Depth \_\_\_\_\_

**DEVIATION SURVEYS**

Time \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Deviation \_\_\_\_\_  
 Direction \_\_\_\_\_  
 Type \_\_\_\_\_

**SOLIDS CONTROL**

Equipment Name \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 Intake Density \_\_\_\_\_  
 Under Flow Density \_\_\_\_\_

**MUD MATERIALS ADDED**

Product \_\_\_\_\_  
 Amount \_\_\_\_\_  
 Type \_\_\_\_\_

**Boiler**

Boiler # \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 pH \_\_\_\_\_  
 Stack Temp \_\_\_\_\_  
 260 \_\_\_\_\_

**TIME LOG**

From \_\_\_\_\_ To \_\_\_\_\_  
 12:00 14:30  
 14:30 15:30  
 15:30 15:45  
 15:45 16:00  
 16:00 16:05

Exposed Code \_\_\_\_\_  
 2-0172B  
 1-0012  
 0-2571  
 2-2912

Details of Operations in Sequence & Remarks  
 RUM CASING FROM 1616M TO 2258M  
 CIRCULATE HOLE CLEAN  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 RUM CASING FROM 1700M TO 2258M  
 RIG OUT BA SERVICES  
 RIG OUT RELAY LAY DOWN O P FROM 1900M TO 880M  
 RIG OUT FROM 880M TO 225M

**SAFETY**

Safety Topic \_\_\_\_\_  
 MENT \_\_\_\_\_  
 MACP \_\_\_\_\_  
 51 00M2K

KOS HA

START TIME 12:00

END TIME 24:00

**TOUR 3 SIGNATURE OF DRILLER**

BR Number \_\_\_\_\_  
 Site \_\_\_\_\_  
 LLOC Code \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Type \_\_\_\_\_  
 Serial No \_\_\_\_\_  
 JSS \_\_\_\_\_

Depth Out (m) \_\_\_\_\_  
 Depth In (m) \_\_\_\_\_  
 Total Drilled (m) \_\_\_\_\_  
 In Run Today \_\_\_\_\_  
 Cumulative In Run Today \_\_\_\_\_  
 Entry Data \_\_\_\_\_

**CUTTING STRUCTURE**

TI \_\_\_\_\_  
 TO \_\_\_\_\_  
 MOC \_\_\_\_\_  
 LOC \_\_\_\_\_  
 BRG \_\_\_\_\_

Reason Pulled \_\_\_\_\_  
 Total Run (m/hr) \_\_\_\_\_

**DRILLING ASSEMBLY**

No. Component \_\_\_\_\_  
 OD ID \_\_\_\_\_  
 Length \_\_\_\_\_

Hole Drag  \_\_\_\_\_  
 Weight of String \_\_\_\_\_  
 Hoop at Bottom \_\_\_\_\_  
 Fil on Bottom \_\_\_\_\_

**MUD RECORD**

Mud Type \_\_\_\_\_  
 Other  \_\_\_\_\_  
 Time \_\_\_\_\_  
 Density \_\_\_\_\_  
 Funnel Viscosity \_\_\_\_\_  
 Fluid Loss \_\_\_\_\_  
 Location of Sample \_\_\_\_\_  
 PVT \_\_\_\_\_  
 PH \_\_\_\_\_

**CIRCULATION**

Pump Type \_\_\_\_\_  
 Type \_\_\_\_\_  
 Size \_\_\_\_\_  
 RPM \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Mud Wt \_\_\_\_\_  
 177 \_\_\_\_\_  
 60 \_\_\_\_\_  
 3000 \_\_\_\_\_  
 1 \_\_\_\_\_

Remarks: \_\_\_\_\_

**REDUCED PUMP SPEED**

Zung No. \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Stroke/Min \_\_\_\_\_  
 Depth \_\_\_\_\_

**DEVIATION SURVEYS**

Time \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Deviation \_\_\_\_\_  
 Direction \_\_\_\_\_  
 Type \_\_\_\_\_

**SOLIDS CONTROL**

Equipment Name \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 Intake Density \_\_\_\_\_  
 Under Flow Density \_\_\_\_\_

**MUD MATERIALS ADDED**

Product \_\_\_\_\_  
 Amount \_\_\_\_\_  
 Type \_\_\_\_\_

**Boiler**

Boiler # \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 pH \_\_\_\_\_  
 Stack Temp \_\_\_\_\_  
 260 \_\_\_\_\_

**TIME LOG**

From \_\_\_\_\_ To \_\_\_\_\_  
 12:00 14:30  
 14:30 15:30  
 15:30 15:45  
 15:45 16:00  
 16:00 16:05

Exposed Code \_\_\_\_\_  
 2-0172B  
 1-0012  
 0-2571  
 2-2912

Details of Operations in Sequence & Remarks  
 RUM CASING FROM 1616M TO 2258M  
 CIRCULATE HOLE CLEAN  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 RUM CASING FROM 1700M TO 2258M  
 RIG OUT BA SERVICES  
 RIG OUT RELAY LAY DOWN O P FROM 1900M TO 880M  
 RIG OUT FROM 880M TO 225M

**SAFETY**

Safety Topic \_\_\_\_\_  
 MENT \_\_\_\_\_  
 MACP \_\_\_\_\_  
 51 00M2K

**TOUR 3 SIGNATURE OF DRILLER**

BR Number \_\_\_\_\_  
 Site \_\_\_\_\_  
 LLOC Code \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Type \_\_\_\_\_  
 Serial No \_\_\_\_\_  
 JSS \_\_\_\_\_

Depth Out (m) \_\_\_\_\_  
 Depth In (m) \_\_\_\_\_  
 Total Drilled (m) \_\_\_\_\_  
 In Run Today \_\_\_\_\_  
 Cumulative In Run Today \_\_\_\_\_  
 Entry Data \_\_\_\_\_

**CUTTING STRUCTURE**

TI \_\_\_\_\_  
 TO \_\_\_\_\_  
 MOC \_\_\_\_\_  
 LOC \_\_\_\_\_  
 BRG \_\_\_\_\_

Reason Pulled \_\_\_\_\_  
 Total Run (m/hr) \_\_\_\_\_

**DRILLING ASSEMBLY**

No. Component \_\_\_\_\_  
 OD ID \_\_\_\_\_  
 Length \_\_\_\_\_

Hole Drag  \_\_\_\_\_  
 Weight of String \_\_\_\_\_  
 Hoop at Bottom \_\_\_\_\_  
 Fil on Bottom \_\_\_\_\_

**MUD RECORD**

Mud Type \_\_\_\_\_  
 Other  \_\_\_\_\_  
 Time \_\_\_\_\_  
 Density \_\_\_\_\_  
 Funnel Viscosity \_\_\_\_\_  
 Fluid Loss \_\_\_\_\_  
 Location of Sample \_\_\_\_\_  
 PVT \_\_\_\_\_  
 PH \_\_\_\_\_

**CIRCULATION**

Pump Type \_\_\_\_\_  
 Type \_\_\_\_\_  
 Size \_\_\_\_\_  
 RPM \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Mud Wt \_\_\_\_\_  
 177 \_\_\_\_\_  
 60 \_\_\_\_\_  
 3000 \_\_\_\_\_  
 1 \_\_\_\_\_

Remarks: \_\_\_\_\_

**REDUCED PUMP SPEED**

Zung No. \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Stroke/Min \_\_\_\_\_  
 Depth \_\_\_\_\_

**DEVIATION SURVEYS**

Time \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Deviation \_\_\_\_\_  
 Direction \_\_\_\_\_  
 Type \_\_\_\_\_

**SOLIDS CONTROL**

Equipment Name \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 Intake Density \_\_\_\_\_  
 Under Flow Density \_\_\_\_\_

**MUD MATERIALS ADDED**

Product \_\_\_\_\_  
 Amount \_\_\_\_\_  
 Type \_\_\_\_\_

**Boiler**

Boiler # \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 pH \_\_\_\_\_  
 Stack Temp \_\_\_\_\_  
 260 \_\_\_\_\_

**TIME LOG**

From \_\_\_\_\_ To \_\_\_\_\_  
 12:00 14:30  
 14:30 15:30  
 15:30 15:45  
 15:45 16:00  
 16:00 16:05

Exposed Code \_\_\_\_\_  
 2-0172B  
 1-0012  
 0-2571  
 2-2912

Details of Operations in Sequence & Remarks  
 RUM CASING FROM 1616M TO 2258M  
 CIRCULATE HOLE CLEAN  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 RUM CASING FROM 1700M TO 2258M  
 RIG OUT BA SERVICES  
 RIG OUT RELAY LAY DOWN O P FROM 1900M TO 880M  
 RIG OUT FROM 880M TO 225M

**SAFETY**

Safety Topic \_\_\_\_\_  
 MENT \_\_\_\_\_  
 MACP \_\_\_\_\_  
 51 00M2K

START TIME

END TIME

**TOUR 3 SIGNATURE OF DRILLER**

BR Number \_\_\_\_\_  
 Site \_\_\_\_\_  
 LLOC Code \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Type \_\_\_\_\_  
 Serial No \_\_\_\_\_  
 JSS \_\_\_\_\_

Depth Out (m) \_\_\_\_\_  
 Depth In (m) \_\_\_\_\_  
 Total Drilled (m) \_\_\_\_\_  
 In Run Today \_\_\_\_\_  
 Cumulative In Run Today \_\_\_\_\_  
 Entry Data \_\_\_\_\_

**CUTTING STRUCTURE**

TI \_\_\_\_\_  
 TO \_\_\_\_\_  
 MOC \_\_\_\_\_  
 LOC \_\_\_\_\_  
 BRG \_\_\_\_\_

Reason Pulled \_\_\_\_\_  
 Total Run (m/hr) \_\_\_\_\_

**DRILLING ASSEMBLY**

No. Component \_\_\_\_\_  
 OD ID \_\_\_\_\_  
 Length \_\_\_\_\_

Hole Drag  \_\_\_\_\_  
 Weight of String \_\_\_\_\_  
 Hoop at Bottom \_\_\_\_\_  
 Fil on Bottom \_\_\_\_\_

**MUD RECORD**

Mud Type \_\_\_\_\_  
 Other  \_\_\_\_\_  
 Time \_\_\_\_\_  
 Density \_\_\_\_\_  
 Funnel Viscosity \_\_\_\_\_  
 Fluid Loss \_\_\_\_\_  
 Location of Sample \_\_\_\_\_  
 PVT \_\_\_\_\_  
 PH \_\_\_\_\_

**CIRCULATION**

Pump Type \_\_\_\_\_  
 Type \_\_\_\_\_  
 Size \_\_\_\_\_  
 RPM \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Mud Wt \_\_\_\_\_  
 177 \_\_\_\_\_  
 60 \_\_\_\_\_  
 3000 \_\_\_\_\_  
 1 \_\_\_\_\_

Remarks: \_\_\_\_\_

**REDUCED PUMP SPEED**

Zung No. \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Stroke/Min \_\_\_\_\_  
 Depth \_\_\_\_\_

**DEVIATION SURVEYS**

Time \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Deviation \_\_\_\_\_  
 Direction \_\_\_\_\_  
 Type \_\_\_\_\_

**SOLIDS CONTROL**

Equipment Name \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 Intake Density \_\_\_\_\_  
 Under Flow Density \_\_\_\_\_

**MUD MATERIALS ADDED**

Product \_\_\_\_\_  
 Amount \_\_\_\_\_  
 Type \_\_\_\_\_

**Boiler**

Boiler # \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 pH \_\_\_\_\_  
 Stack Temp \_\_\_\_\_  
 260 \_\_\_\_\_

**TIME LOG**

From \_\_\_\_\_ To \_\_\_\_\_  
 12:00 14:30  
 14:30 15:30  
 15:30 15:45  
 15:45 16:00  
 16:00 16:05

Exposed Code \_\_\_\_\_  
 2-0172B  
 1-0012  
 0-2571  
 2-2912

Details of Operations in Sequence & Remarks  
 RUM CASING FROM 1616M TO 2258M  
 CIRCULATE HOLE CLEAN  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 RUM CASING FROM 1700M TO 2258M  
 RIG OUT BA SERVICES  
 RIG OUT RELAY LAY DOWN O P FROM 1900M TO 880M  
 RIG OUT FROM 880M TO 225M

**SAFETY**

Safety Topic \_\_\_\_\_  
 MENT \_\_\_\_\_  
 MACP \_\_\_\_\_  
 51 00M2K

**TOUR 3 SIGNATURE OF DRILLER**

BR Number \_\_\_\_\_  
 Site \_\_\_\_\_  
 LLOC Code \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Type \_\_\_\_\_  
 Serial No \_\_\_\_\_  
 JSS \_\_\_\_\_

Depth Out (m) \_\_\_\_\_  
 Depth In (m) \_\_\_\_\_  
 Total Drilled (m) \_\_\_\_\_  
 In Run Today \_\_\_\_\_  
 Cumulative In Run Today \_\_\_\_\_  
 Entry Data \_\_\_\_\_

**CUTTING STRUCTURE**

TI \_\_\_\_\_  
 TO \_\_\_\_\_  
 MOC \_\_\_\_\_  
 LOC \_\_\_\_\_  
 BRG \_\_\_\_\_

Reason Pulled \_\_\_\_\_  
 Total Run (m/hr) \_\_\_\_\_

**DRILLING ASSEMBLY**

No. Component \_\_\_\_\_  
 OD ID \_\_\_\_\_  
 Length \_\_\_\_\_

Hole Drag  \_\_\_\_\_  
 Weight of String \_\_\_\_\_  
 Hoop at Bottom \_\_\_\_\_  
 Fil on Bottom \_\_\_\_\_

**MUD RECORD**

Mud Type \_\_\_\_\_  
 Other  \_\_\_\_\_  
 Time \_\_\_\_\_  
 Density \_\_\_\_\_  
 Funnel Viscosity \_\_\_\_\_  
 Fluid Loss \_\_\_\_\_  
 Location of Sample \_\_\_\_\_  
 PVT \_\_\_\_\_  
 PH \_\_\_\_\_

**CIRCULATION**

Pump Type \_\_\_\_\_  
 Type \_\_\_\_\_  
 Size \_\_\_\_\_  
 RPM \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Mud Wt \_\_\_\_\_  
 177 \_\_\_\_\_  
 60 \_\_\_\_\_  
 3000 \_\_\_\_\_  
 1 \_\_\_\_\_

Remarks: \_\_\_\_\_

**REDUCED PUMP SPEED**

Zung No. \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Stroke/Min \_\_\_\_\_  
 Depth \_\_\_\_\_

**DEVIATION SURVEYS**

Time \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Deviation \_\_\_\_\_  
 Direction \_\_\_\_\_  
 Type \_\_\_\_\_

**SOLIDS CONTROL**

Equipment Name \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 Intake Density \_\_\_\_\_  
 Under Flow Density \_\_\_\_\_

**MUD MATERIALS ADDED**

Product \_\_\_\_\_  
 Amount \_\_\_\_\_  
 Type \_\_\_\_\_

**Boiler**

Boiler # \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 pH \_\_\_\_\_  
 Stack Temp \_\_\_\_\_  
 260 \_\_\_\_\_

**TIME LOG**

From \_\_\_\_\_ To \_\_\_\_\_  
 12:00 14:30  
 14:30 15:30  
 15:30 15:45  
 15:45 16:00  
 16:00 16:05

Exposed Code \_\_\_\_\_  
 2-0172B  
 1-0012  
 0-2571  
 2-2912

Details of Operations in Sequence & Remarks  
 RUM CASING FROM 1616M TO 2258M  
 CIRCULATE HOLE CLEAN  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 RUM CASING FROM 1700M TO 2258M  
 RIG OUT BA SERVICES  
 RIG OUT RELAY LAY DOWN O P FROM 1900M TO 880M  
 RIG OUT FROM 880M TO 225M

**SAFETY**

Safety Topic \_\_\_\_\_  
 MENT \_\_\_\_\_  
 MACP \_\_\_\_\_  
 51 00M2K

START TIME

END TIME

**TOUR 3 SIGNATURE OF DRILLER**

BR Number \_\_\_\_\_  
 Site \_\_\_\_\_  
 LLOC Code \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Type \_\_\_\_\_  
 Serial No \_\_\_\_\_  
 JSS \_\_\_\_\_

Depth Out (m) \_\_\_\_\_  
 Depth In (m) \_\_\_\_\_  
 Total Drilled (m) \_\_\_\_\_  
 In Run Today \_\_\_\_\_  
 Cumulative In Run Today \_\_\_\_\_  
 Entry Data \_\_\_\_\_

**CUTTING STRUCTURE**

TI \_\_\_\_\_  
 TO \_\_\_\_\_  
 MOC \_\_\_\_\_  
 LOC \_\_\_\_\_  
 BRG \_\_\_\_\_

Reason Pulled \_\_\_\_\_  
 Total Run (m/hr) \_\_\_\_\_

**DRILLING ASSEMBLY**

No. Component \_\_\_\_\_  
 OD ID \_\_\_\_\_  
 Length \_\_\_\_\_

Hole Drag  \_\_\_\_\_  
 Weight of String \_\_\_\_\_  
 Hoop at Bottom \_\_\_\_\_  
 Fil on Bottom \_\_\_\_\_

**MUD RECORD**

Mud Type \_\_\_\_\_  
 Other  \_\_\_\_\_  
 Time \_\_\_\_\_  
 Density \_\_\_\_\_  
 Funnel Viscosity \_\_\_\_\_  
 Fluid Loss \_\_\_\_\_  
 Location of Sample \_\_\_\_\_  
 PVT \_\_\_\_\_  
 PH \_\_\_\_\_

**CIRCULATION**

Pump Type \_\_\_\_\_  
 Type \_\_\_\_\_  
 Size \_\_\_\_\_  
 RPM \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Mud Wt \_\_\_\_\_  
 177 \_\_\_\_\_  
 60 \_\_\_\_\_  
 3000 \_\_\_\_\_  
 1 \_\_\_\_\_

Remarks: \_\_\_\_\_

**REDUCED PUMP SPEED**

Zung No. \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Stroke/Min \_\_\_\_\_  
 Depth \_\_\_\_\_

**DEVIATION SURVEYS**

Time \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Deviation \_\_\_\_\_  
 Direction \_\_\_\_\_  
 Type \_\_\_\_\_

**SOLIDS CONTROL**

Equipment Name \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 Intake Density \_\_\_\_\_  
 Under Flow Density \_\_\_\_\_

**MUD MATERIALS ADDED**

Product \_\_\_\_\_  
 Amount \_\_\_\_\_  
 Type \_\_\_\_\_

**Boiler**

Boiler # \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 pH \_\_\_\_\_  
 Stack Temp \_\_\_\_\_  
 260 \_\_\_\_\_

**TIME LOG**

From \_\_\_\_\_ To \_\_\_\_\_  
 12:00 14:30  
 14:30 15:30  
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 16:00 16:05

Exposed Code \_\_\_\_\_  
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Details of Operations in Sequence & Remarks  
 RUM CASING FROM 1616M TO 2258M  
 CIRCULATE HOLE CLEAN  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
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 POWER TONGS  
 RUM CASING FROM 1700M TO 2258M  
 RIG OUT BA SERVICES  
 RIG OUT RELAY LAY DOWN O P FROM 1900M TO 880M  
 RIG OUT FROM 880M TO 225M

**SAFETY**

Safety Topic \_\_\_\_\_  
 MENT \_\_\_\_\_  
 MACP \_\_\_\_\_  
 51 00M2K

**TOUR 3 SIGNATURE OF DRILLER**

BR Number \_\_\_\_\_  
 Site \_\_\_\_\_  
 LLOC Code \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Type \_\_\_\_\_  
 Serial No \_\_\_\_\_  
 JSS \_\_\_\_\_

Depth Out (m) \_\_\_\_\_  
 Depth In (m) \_\_\_\_\_  
 Total Drilled (m) \_\_\_\_\_  
 In Run Today \_\_\_\_\_  
 Cumulative In Run Today \_\_\_\_\_  
 Entry Data \_\_\_\_\_

**CUTTING STRUCTURE**

TI \_\_\_\_\_  
 TO \_\_\_\_\_  
 MOC \_\_\_\_\_  
 LOC \_\_\_\_\_  
 BRG \_\_\_\_\_

Reason Pulled \_\_\_\_\_  
 Total Run (m/hr) \_\_\_\_\_

**DRILLING ASSEMBLY**

No. Component \_\_\_\_\_  
 OD ID \_\_\_\_\_  
 Length \_\_\_\_\_

Hole Drag  \_\_\_\_\_  
 Weight of String \_\_\_\_\_  
 Hoop at Bottom \_\_\_\_\_  
 Fil on Bottom \_\_\_\_\_

**MUD RECORD**

Mud Type \_\_\_\_\_  
 Other  \_\_\_\_\_  
 Time \_\_\_\_\_  
 Density \_\_\_\_\_  
 Funnel Viscosity \_\_\_\_\_  
 Fluid Loss \_\_\_\_\_  
 Location of Sample \_\_\_\_\_  
 PVT \_\_\_\_\_  
 PH \_\_\_\_\_

**CIRCULATION**

Pump Type \_\_\_\_\_  
 Type \_\_\_\_\_  
 Size \_\_\_\_\_  
 RPM \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Mud Wt \_\_\_\_\_  
 177 \_\_\_\_\_  
 60 \_\_\_\_\_  
 3000 \_\_\_\_\_  
 1 \_\_\_\_\_

Remarks: \_\_\_\_\_

**REDUCED PUMP SPEED**

Zung No. \_\_\_\_\_  
 Pressure \_\_\_\_\_  
 Stroke/Min \_\_\_\_\_  
 Depth \_\_\_\_\_

**DEVIATION SURVEYS**

Time \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Deviation \_\_\_\_\_  
 Direction \_\_\_\_\_  
 Type \_\_\_\_\_

**SOLIDS CONTROL**

Equipment Name \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 Intake Density \_\_\_\_\_  
 Under Flow Density \_\_\_\_\_

**MUD MATERIALS ADDED**

Product \_\_\_\_\_  
 Amount \_\_\_\_\_  
 Type \_\_\_\_\_

**Boiler**

Boiler # \_\_\_\_\_  
 Hours Run \_\_\_\_\_  
 pH \_\_\_\_\_  
 Stack Temp \_\_\_\_\_  
 260 \_\_\_\_\_

**TIME LOG**

From \_\_\_\_\_ To \_\_\_\_\_  
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 15:30 15:45  
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Exposed Code \_\_\_\_\_  
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Details of Operations in Sequence & Remarks  
 RUM CASING FROM 1616M TO 2258M  
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 POWER TONGS  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 MAKE UP PACKER BVA, RUM CASING FROM SURFACE TO 1700M  
 SAFETY MEETING WITH CEMENTERS AND PACKERS PLUS  
 POWER TONGS  
 RUM CASING FROM 1700M TO 2258M  
 RIG OUT BA SERVICES  
 RIG OUT RELAY LAY DOWN O P FROM 1900M TO 880M  
 RIG OUT FROM 880M TO 225M

**SAFETY**

Safety Topic \_\_\_\_\_  
 MENT \_\_\_\_\_  
 MACP \_\_\_\_\_  
 51 00M2K

START TIME

END TIME

**TOUR 3 SIGNATURE OF DRILLER**

BR Number \_\_\_\_\_  
 Site \_\_\_\_\_  
 LLOC Code \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Type \_\_\_\_\_  
 Serial No \_\_\_\_\_  
 JSS \_\_\_\_\_

Depth Out (m) \_\_\_\_\_  
 Depth In (m) \_\_\_\_\_  
 Total Drilled (m) \_\_\_\_\_







### GE Oil & Gas

710, 530 - 8th Ave S.W. Calgary, Alberta T2P 3S8

Phone: (403) 264-4146 Fax (403) 269-4224

Toll Free: 1-800-925-6024

Quotation

Well Schematic

Rev

0

Date: August 30, 2011  
 Sold To: **Paramount Res.**  
 Attention: Brad Scott  
 Reference: Cameron Hills 2H-03  
 Currency:  
 Payment Terms:  
 Delivery:  
 F.O.B. Point  
 Quotation Validity:  
 Account Representative

#### Well Schematic

| Item                         | Qty | Part No | Description   | Unit Price | Total         |
|------------------------------|-----|---------|---|------------|---------------|
| 1                            | 1   |         | CASING HEAD ASSEMBLY, VG-SOW, 11 3000 (279.4mm20.7MPa) X 8-5/8 (219.1mm) SOW, C/W (2) 2-1/16 3000 (52.4mm20.7MPa) SSO W/ 1.900 (48.3mm) VRT, API 6A 19TH ED., TC L-U, MC CDD, PR-1, PSL-1 | CP         |               |
| 2                            | 1   |         | CASING SLIP ASSEMBLY, VGS, 11 (279.4mm) X 5-1/2 (139.7mm), MANUAL SLIP.<br>API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1  | CP         |               |
| 3                            | 1   |         | PRIMARY SEAL ASSEMBLY, VGS, 11 (279.4mm) X 5-1/2 (139.7mm),<br>API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL1   | CP         |               |
| 4                            | 1   |         | GATE VALVE ASSY, VGC, 2-1/16 5000 (52mm 34.5MPa) FLANGED, FULL PORT.<br>API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD  | CP         |               |
| 5                            | 2   |         | COMPANION FLANGE, 2-1/16 5000 (52mm 34.5MPa) X 2 (50mm) LP<br>API 6A 19TH ED PSL-1, PR-1, TC L-U, MC DD   | CP         |               |
| 6                            | 2   |         | BULL PLUG XXH 2 (50mm) LP X 1/2 (12.7mm) NPT TAPPED   | CP         |               |
| 7                            | 1   |         | NEEDLE VALVE 1/2 (12.7mm) NPT MXF STRAIGHT 316 S.S. 10000 WP  | CP         |               |
| 8                            | 1   |         | PRESSURE GAUGE 5000 (34.5MPa) CW 4 (101.6mm) DIAL 1/2 (12.7mm) NPT BTM NACE   | CP         |               |
| 9                            | 2   |         | FORGED STEEL PIPE PLUG 1/2 (12.7mm) NPT   | CP         |               |
| 10                           | 1   |         | RING GASKET R-53 316 S.S.   | CP         |               |
| 11                           | 3   |         | RING GASKET R-24 316 S.S.   | CP         |               |
| 12                           | 1   |         | STUD/NUT L7/2H 7/8 (22.2mm) X 6 (152.4mm) LONG SET OF 8   | CP         |               |
| <b>CASING BOWL SUB TOTAL</b> |     |         |   |            | <b>\$0.00</b> |

| Well Schematic |     |         |   |            |               |
|----------------|-----|---------|---|------------|---------------|
| Item           | Qty | Part No | Description   | Unit Price | Total         |
| 13             | 1   |         | TUBING HEAD ASSEMBLY, VGOFF-GRF, 11 3000 (279.4mm20.7MPa) X 7-1/16 3000 (179.4mm20.7MPa), C/W (2) 2-1/16 3000 (52.4mm20.7MPa) SSO W/ 1.900 (48.3mm) VRT.<br>API 6A 19TH ED., TC L-U, MC AA, PR-1, PSL-1 | CP         |               |
| 14             | 1   |         | SECONDARY SEAL ASSEMBLY, GRF, 9 (228.6mm) X 5-1/2 (139.7mm),<br>API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1   | CP         |               |
| 15             | 1   |         | TUBING HANGER ASSEMBLY, XP-1, 7-1/16 (179.4mm) NOM. X 2-7/8 (73.0mm) EUE BOX X BOX C/ EXTENDED NECK & 2-1/2 (63.5mm) HBPV,<br>API 6A 19TH ED, TC L-U, MC DD, PR-1, PSL-1                                | CP         |               |
| 16             | 2   |         | GATE VALVE ASSY, VGC, 2-1/16 5000 (52mm 34.5MPa) FLANGED, FULL PORT.<br>API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD  | CP         |               |
| 17             | 2   |         | COMPANION FLANGE, 2-1/16 5000 (52mm 34.5MPa) X 2 (50mm) LP<br>API 6A 19TH ED PSL-1, PR-1, TC L-U, MC DD   | CP         |               |
| 18             | 2   |         | BULL PLUG XXH 2 (50mm) LP X 1/2 (12.7mm) NPT TAPPED   | CP         |               |
| 19             | 2   |         | FORGED STEEL PIPE PLUG 1/2 (12.7mm) NPT   | CP         |               |
| 20             | 2   |         | NEEDLE VALVE 1/2 (12.7mm) NPT MXF STRAIGHT 316 S.S. 10000 WP  | CP         |               |
| 21             | 1   |         | PRESSURE GAUGE 5000 (34.5MPa) CW 4 (101.6mm) DIAL 1/2 (12.7mm) NPT BTM NACE   | CP         |               |
| 22             | 1   |         | RING GASKET R-45 316 S.S.   | CP         |               |
| 23             | 4   |         | RING GASKET R-24 316 S.S.   | CP         |               |
| 24             | 1   |         | STUD/NUT L7 2H 1-3/8 (38.1mm) X 9-1/2 (241.3mm) LONG SET OF 16  | CP         |               |
| 25             | 2   |         | STUD/NUT L7 2H 7/8 (22.2mm) X 6 (152.4mm) LONG SET OF 8   | CP         |               |
|                |     |         | <b>TUBING HEAD SUBTOTAL</b>   |            | <b>\$0.00</b> |
| 26             | 1   |         | TUBING HEAD ADAPTER BONNET, XP-1, 7-1/16 3000 (179.4mm20.7MPa) X 2-9/16 5000 (65.1mm34.5MPa) SSU, C/W SEAL POCKET & TEST PORT,<br>API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1                           | CP         |               |
| 27             | 2   |         | GATE VALVE ASSY, VGC, 2-9/16 5000 (65.1mm 34.5MPa) FLANGED, FULL PORT.<br>API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD  | CP         |               |
| 28             | 1   |         | STUDDERED TEE, 2-9/16 5000 (65.1mm34.5MPa) X 2-9/16 5000 (65.1mm34.5MPa) RISE X 2-1/16 5000 (52.4mm34.5MPa) RUN,<br>API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1   | CP         |               |
| 29             | 1   |         | B.H.T.A., 2-9/16 5000 (65.1mm34.5MPa), C/W TOP CAP ASSEMBLY W/ 1/2" NPT TAP,<br>API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1   | CP         |               |
| 30             | 1   |         | GATE VALVE ASSY, VGC, 2-1/16 5000 (52mm 34.5MPa) FLANGED, FULL PORT.<br>API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD  | CP         |               |
| 31             | 1   |         | COMPANION FLANGE, 2-1/16 5000 (52mm 34.5MPa) X 2 (50mm) LP<br>API 6A 19TH ED PSL-1, PR-1, TC L-U, MC DD   | CP         |               |
| 32             | 1   |         | BULL PLUG XXH 2 (50mm) LP X 1/2 (12.7mm) NPT TAPPED   | CP         |               |
| 33             | 2   |         | FORGED STEEL PIPE PLUG 1/2 (12.7mm) NPT   | CP         |               |
| 34             | 2   |         | NEEDLE VALVE 1/2 (12.7mm) NPT MXF STRAIGHT 316 S.S. 10000 WP  | CP         |               |

| Well Schematic             |     |         |  |            |               |
|----------------------------|-----|---------|--|------------|---------------|
| Item                       | Qty | Part No | Description  | Unit Price | Total         |
| 35                         | 1   |         | PRESSURE GAUGE 5000 (34.5MPa) CW 4 (101.6mm) DIAL 1/2 (12.7mm) NPT BTM NACE                  | CP         |               |
| 36                         | 4   |         | RING GASKET R-27 316 S.S.  | CP         |               |
| 37                         | 2   |         | RING GASKET R-24 316 S.S.  | CP         |               |
| 38                         | 1   |         | STUD/NUT L7 2H 7/8 (22.2mm) X 6 (152.4mm) LONG SET OF 8                                      | CP         |               |
| 39                         | 1   |         | STUD/NUT L7 2H 1 (25.4mm) X 7 (177.8mm) LONG SET OF 8  | CP         |               |
| <b>COMPLETION SUBTOTAL</b> |     |         |  |            | <b>\$0.00</b> |
| 40                         |     |         | CASING VENT ASSY SHALLOW, 2 (50.8mm) X 3000 (20.7MPa)  | CP         |               |
| 41                         |     |         | COMPANION FLANGE, 2-1/16 5000 (52mm 34.5MPa) BLIND API 6A 19TH ED PSL-1, PR-1, TC L-U, MC DD | CP         |               |
| 42                         |     |         | RING GASKET R-24 316 S.S.  | CP         |               |
| 43                         | 5   |         | LABOUR CHARGE/HR TO ASSEMBLE TEST AND PAINT  | \$0.00     | \$0.00        |
| <b>EQUIPMENT TOTAL</b>     |     |         |  |            | <b>\$0.00</b> |

**Preston Seier 403-264-4182**

Authorized By: \_\_\_\_\_  
For Vetco Gray

**Customer Order Acknowledgment**

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**\*\*Remanufactured wellhead equipment carries full warranty and is subject to prior sale**

**All deliveries are from receipt of order and subject to prior sale**

No product may be returned for credit without the written consent of an authorized VGC employee.  
Product returned more than 30 days after shipment date is subject to a 15% restocking charge.  
Products purchased from other O.E.Ms is subject to their actual restocking charge.  
Equipment returned for credit that requires disassembly is subject to a tear down charge  
Credit will not be issues on assembly, test and paint.  
Product returned requiring clean-up is subject to shop charge.  
Expendable items such as nipples, ring gaskets and boltings that are part of assemblies are subject to 100% restocking charge.  
Components requiring special coating for injection wells will be subject to a 15% restocking charge.  
Products manufactured to a PSL-3 is subject to a 15% restocking charge.  
Specialty equipment (considered to be a non-stocking item) is subject to a 100% restocking charge.  
Fuel or steel surcharge, if applicable will be added to invoice amount.



**VEECO GRAY CANADA INC.  
STANDARD TERMS AND CONDITIONS**

**1. Acceptance**

- 1.1 Acceptance of any offer to sell by VGC is limited to Purchaser completely and exclusively accepting all terms and conditions hereof ("Terms"). The acknowledgment Sales Agreement constitutes the entire agreement between the parties and takes precedence over any and all previous verbal or written arrangements in connection with this Agreement. Any deletions, modifications, alterations or additions to the Terms, to be binding, shall be in writing and signed by an authorized representative of VGC and the Purchaser. Without limiting the foregoing, it is expressly acknowledged that any Purchaser document received for order identification convenience only. Any and all provisions on the face or reverse side of any purchase order which Purchaser may send to VGC in connection herewith are expressly objected to by VGC and waived by Purchaser and made inapplicable to any such purchase, unless both parties expressly agree in writing to include any such terms and conditions in this Agreement.
- 1.2 Purchaser's acceptance is hereby expressly limited to the Terms, and acceptance of any part of the products covered hereunder shall be deemed to constitute such acceptance. (If this order constitutes an acceptance of an offer, such acceptance is expressly made conditional on Purchaser's assent to the Terms and any additional or different terms contained herein, and acceptance of any part of the products covered shall be deemed to constitute such assent.) VGC may provide the products from its affiliated company, in which event these Terms will apply. Purchaser may not assign this Agreement without the prior written consent.
- 1.3 For any item of VGC equipment leased to Purchaser, VGC's standard terms and conditions of equipment lease shall apply.

**2. Limited Warranties**

VGC hereby warrants that all products manufactured by VGC are free of defects of material and workmanship for a period of twelve (12) months from the date shipped, providing that the products are used in the service specified and are properly installed, used and maintained and not altered after initial delivery, corrosion and erosion and normal wear and tear excepted. Purchaser shall give written notice to VGC of any defects within thirty (30) days of their discovery by Purchaser, within said twelve (12) month period, with a report detailing failure and defects. VGC reserves the right to require prepaid return of the allegedly defective product to establish a warranty claim. VGC will, at its option, repair any product found defective during the warranty period without charge, replace the product F.O.B. manufacturing facility, or refund the purchase price paid for the products upon return to VGC. VGC shall not be responsible for retrieving or removing defective items (whether manufactured by VGC or not), or any part thereof, or for reinstalling the same when repaired or replaced, or for any cost incurred in connection with such retrieval, removal or reinstallation. In the case of items or parts not wholly of VGC's manufacture, but supplied by VGC, VGC's liability shall be limited to assisting Purchaser in enforcing the warranty of the manufacturer of the items or parts. VGC will not be responsible for repairs made by other than VGC without prior written consent. This warranty is EXCLUSIVE AND, EXCEPT AS STATED HEREIN, VGC MAKES NO EXPRESS OR IMPLIED WARRANTIES AS TO ANY MATTER WHATSOEVER, INCLUDING, WITHOUT LIMITATION, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE, WHICH EXCEED THE FOREGOING WARRANTY. PURCHASER'S SOLE REMEDY AND VGC'S SOLE OBLIGATION ARISING OUT OF OR IN CONNECTION WITH DEFECTS IN MATERIALS, WORKMANSHIP OR SERVICES, WHICH ARE BASED ON WARRANTY, CONTRACT NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE THOSE STATED IN THIS SECTION. The Purchaser acknowledges that any affirmation of fact or promise made by VGC shall not be deemed to create an express warranty, that Purchaser is not relying on VGC's skill or judgment in selecting or furnishing a system suitable for any particular purpose, and there are no warranties which extend beyond the description on the face hereof.

**3. Liability**

VGC is not an insurer and insurance, if any, shall be obtained by the Purchaser. The Purchaser acknowledges that it is impracticable and extremely difficult to affix the actual damages, if any, which may proximately result from a failure on the part of VGC to perform any of the obligations contained herein, or the failure of the product to operate properly, with resulting loss to the Purchaser, and that the price is established on use of these Terms. The Purchaser agrees that if VGC should be found liable for loss or damage due to a failure of service or equipment in any respect whatsoever, VGC's liability, whether based on breach of warranty, breach of contract, tort, strict liability or otherwise, shall be limited to its warranty obligation, but in no event shall exceed the purchase price paid. In the event that those products or parts which are defective in either material or workmanship are not wholly of VGC's manufacture, VGC's liability shall be limited exclusively to the extent of VGC's recovery from the manufacturer of such products or parts. The replacement cost or VGC's recovery from the manufacturer, as the case may be, shall be the exclusive obligation and liability of VGC and the sole remedy of Purchaser. Further, the provisions of this section shall apply if loss or damage, or indirectly to persons or property, from performance or nonperformance of the obligations imposed by this Agreement or from negligence, active or otherwise, of VGC, its agents, assigns or employees. In no event shall VGC be liable for damages arising from delays, loss of use or of profits or for other incidental or consequential damages of any kind, including, by way of example and not of limitation, pollution, hydrocarbon spillage or discharge, blowout, seepage, damage to underground reservoirs or any other concealed flow of hydrocarbons or other substances.

**4. Subrogation**

The Purchaser hereby releases, discharges and agrees to hold VGC harmless from any and all claims, liabilities, damages, losses or expenses arising from or caused by any hazard covered by insurance, whether said claim is made by Purchaser, its agents and insurance company, or by any other parties claiming under or through Purchaser. Purchaser agrees to indemnify VGC against, defend and hold VGC harmless from any liability, loss or damage, including costs or attorney's fees which VGC may incur as a result of any action or subrogation which may be brought against VGC by an insurer or insurance company, or its agents or

**5. Price and Payment**

- 5.1 All products are priced in U.S. dollars, unless otherwise stated, and will be invoiced upon shipment. Net payment is due within thirty (30) days after invoice date. Interest charges at eighteen percent (18%) per annum (or at maximum lawful rate) will be applicable to delinquent accounts unpaid after due date. Prices quoted are subject to change without notice if not accepted within thirty (30) days, unless specifically stated.
- 5.2 Unless otherwise quoted, Purchaser will pay, in addition to the purchase price of the products, all charges for export packing and processing, insurance and transportation, and the price of products does not include personnel or equipment required to install the products.

**6. Transportation**

Unless otherwise specified in VGC's sales quotation, transportation charges, including transportation documents and contracts with carriers, shall be based upon the point of manufacture and shall be paid by Purchaser. All taxes, surcharges, customs duties, consular fees, assessments imposed by any governmental authority, insurance charges and other applicable charges, shall be borne by the Purchaser. Title to and risk of loss for goods sold shall pass to the Purchaser ex works (INCOTERMS), point of manufacture warehouse, unless otherwise specifically agreed to by VGC in writing.

**7. Delivery**

Purchaser acknowledges that delivery dates, while given as accurately as conditions permit, are tentative only and, while every effort will be made to make deliveries as scheduled, VGC assumes no liability whatsoever or damages arising out of the failure to deliver the goods described herein on the dates stated. Delay in delivery shall not give Purchaser the right to cancel order. Delivery dates may be changed at VGC's

**8. Cancellation or Rescheduling of Orders**

- 8.1 Purchaser's orders, once placed and accepted, may be canceled only with VGC's written consent and upon terms which will save VGC from loss. No products may be returned for credit, warranty claim or adjustment without the written consent of authorized VGC employees.
- 8.2 VGC may, but is not obligated to, accept a written request by Purchaser to delay shipment of the products. If rescheduling is accepted by VGC, Purchaser shall pay any additional costs incurred by the delay and the price for the balance of the order shall be adjusted to reflect prices and costs in effect at time of actual shipment.

**9. Taxes, Licenses or Other Charges**

- 9.1 All taxes or other charges imposed by law on the sale or production of goods or the performance of services under this Agreement, including, but not limited to, those from all governmental authorities, as well as all foreign taxes, surcharges, duties, assessments or charges, if any, shall be borne by the Purchaser, unless the law specifically provides that such payment must be borne by VGC. Purchaser shall pay for and hold VGC harmless from all such governmental charges.
- 9.2 Purchaser shall, at its own expense, obtain all licenses, permissions or authorizations to use, purchase, export or import the products, as may be required by any governmental authority.

**10. Services**

Upon the request of the Purchaser, VGC will provide appropriate services and/or technical information, as available, regarding the products and their uses, and will use reasonable efforts to provide personnel to assist the Purchaser in effecting field installations. The Purchaser acknowledges that any such information, service or assistance so provided, whether with or without charge, shall be in an advisory capacity only. The Purchaser further agrees that VGC assumes no liability for any damage or loss at any location arising out of, resulting from or caused, in whole or in part, by any information, service, advice or assistance provided by VGC, its agents, assigns, employees or subcontractors.

**11. Packaging/Insurance**

- 11.1 When obligated to do so in the specifications, VGC shall attempt to pack and prepare all shipments in such a manner as to prevent breakage, rust or deterioration in transit. VGC does not, however, guarantee against such damage and the risk of any damage to the products in transit shall be borne by the Purchaser at all times.
- 11.2 Unless requested by the Purchaser and agreed to in writing by VGC, no shipments are insured by VGC against damage or loss in transit and VGC assumes no liability whatsoever in regard to the obtaining of such insurance.

**12. Changes and Modifications In Design**

VGC hereby reserves the right to change or modify the specification and construction of any of its products without incurring any obligation to furnish or install such changes or modifications on products previously or subsequently sold.

**13. Patent Warranties**

The Purchaser acknowledges that VGC does not warrant that any of the materials, equipment or apparatus sold by it, if used or sold in combination with any other equipment, or used in Purchaser's methods or processes, will not, by virtue of such combination or use, infringe patents of others, and VGC shall not be liable for any patent infringement arising from or by reason of any such use or sale. On any item sold by VGC,

**14. Shortages**

Subject to Paragraphs 6.1, 11.1 and 11.2, all claims regarding shortages in any shipment must be made within thirty (30) days from the receipt of such shipment, and must be accompanied by the packing list or lists covering the shipment.

**15. Consular Documents and Declarations**

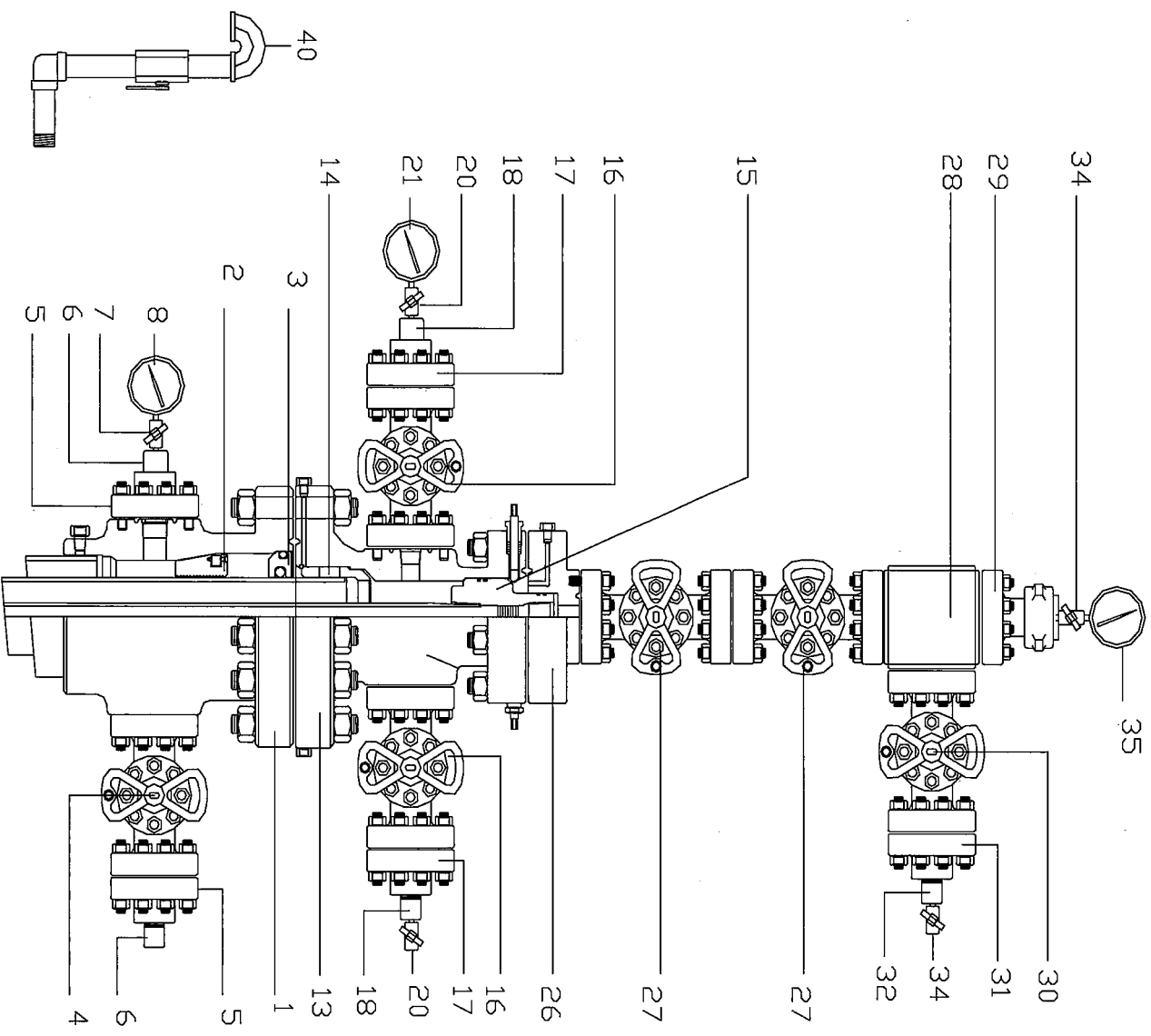
The procurement of consular fees for legalizing invoices, stamping Bills of Lading or other such documents and declarations required by the law of any country or destination, are not included in quotations or selling prices. Although it is not VGC's policy to make such arrangements, if instructed by the Purchaser and agreed to in writing by VGC, VGC will make arrangements for any consular documents and declarations needed, as agents of the Purchaser. VGC assumes no liability whatsoever as a result of making such arrangements and all costs and liability shall be borne by the Purchaser.

**16. Force Majeure**

If the Purchaser or VGC is prevented, directly or indirectly, from carrying out the provisions of this Agreement by reason of any act of God, war, revolution, blockade, strike, riot, earthquake, cyclone or flood, or delay by carrier, fuel shortage, embargo, walkout or other labor disturbance, actual or potential, the operation of laws, interference of civil or military authority, or other cause, existing or future, beyond the reasonable control of the party affected, interfering with production or receipt of goods as herein contemplated, the party so prevented or interfered with shall be excused from making or taking deliveries to the extent of such prevention or interference, excluding the obligation to pay monies owed, provided prompt written notice is given to the other party.

**17. Governing Law**

- 17.1 The validity, interpretation and performance of this Agreement with respect to goods delivered or to be delivered under this Agreement shall be governed by the laws of the Canada and the Province of Alberta and any dispute arising hereunder shall be referred to the courts of the Province of Alberta or, at VGC's sole discretion, to the courts where the Purchaser's business is situated.
- 17.2 The invalidity, in whole or in part, of the Terms, or any provision or any part thereof, shall not affect the validity or enforceability of any other terms or provisions.
- 17.3 The right of VGC to require strict performance of the Terms shall not be affected by any prior waiver or course of dealing.





Paramount resources ltd.

Schematic - Current

Well Name: PARA ET AL CAMERON 2H-03 HZ

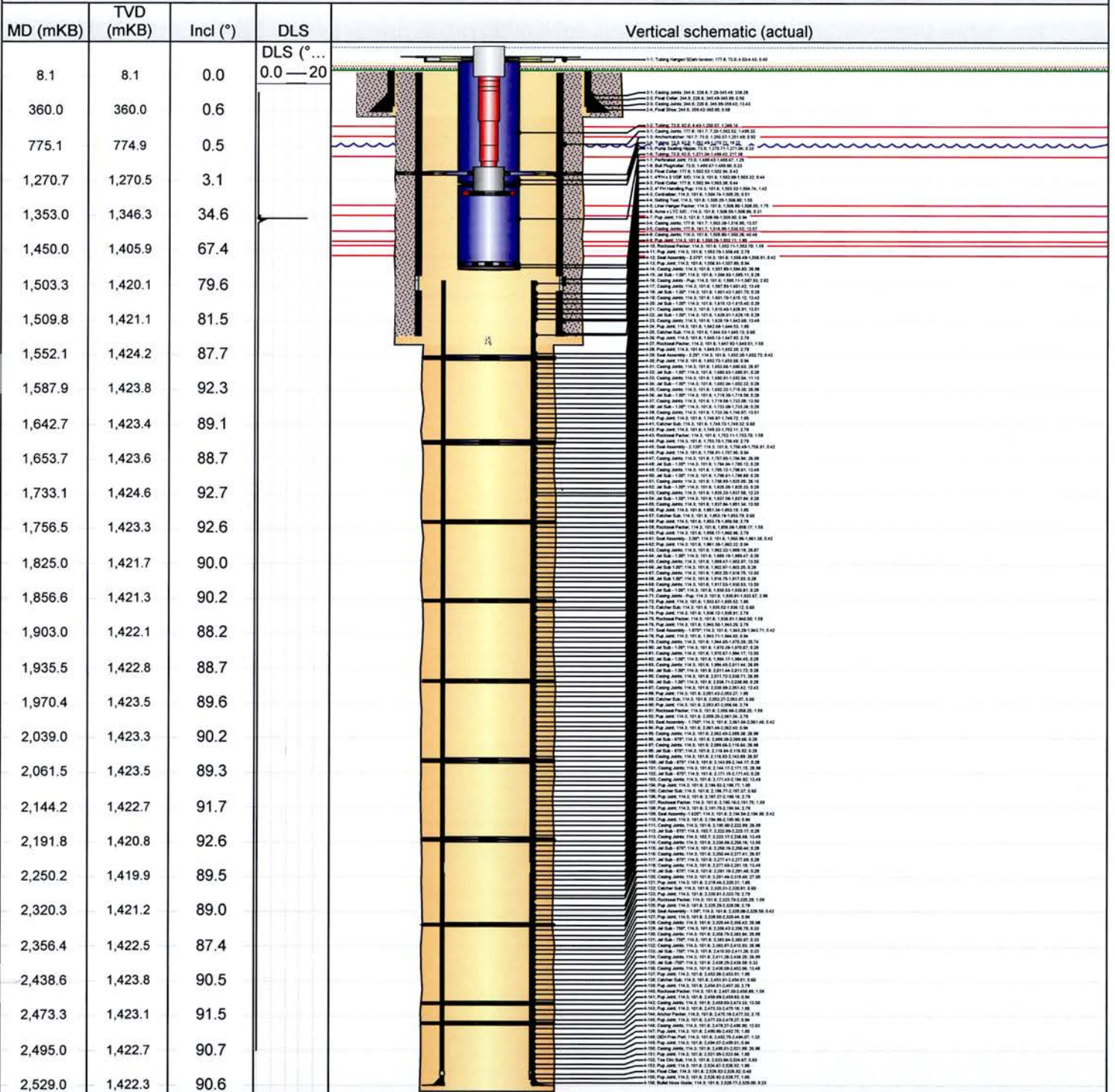
|                                  |  |                                |                                       |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | License #<br>2073              | Field Name<br>Cameron Hills           | State/Province<br>NT                |
| Well Configuration Type<br>HORIZ | Original KB Elevation (m)<br>777.22            | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | KB-Tubing Head Distance (m)<br>4.52 |

Most Recent Job

|                            |  |                    |                         |                      |
|----------------------------|--|--------------------|-------------------------|----------------------|
| Job Category<br>Completion | Primary Job Type<br>Initial Completion | Secondary Job Type | Start Date<br>3/22/2011 | End Date<br>4/2/2011 |
|----------------------------|--|--------------------|-------------------------|----------------------|

TD: 2,534.00

HORIZ - Original Hole, 9/2/2011 1:31:36 PM





**Paramount**  
resources ltd.

### Schematic - Current

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | License #<br>2073              | Field Name<br>Cameron Hills           | State/Province<br>NT                |
| Well Configuration Type<br>HORIZ | Original KB Elevation (m)<br>777.22            | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | KB-Tubing Head Distance (m)<br>4.52 |

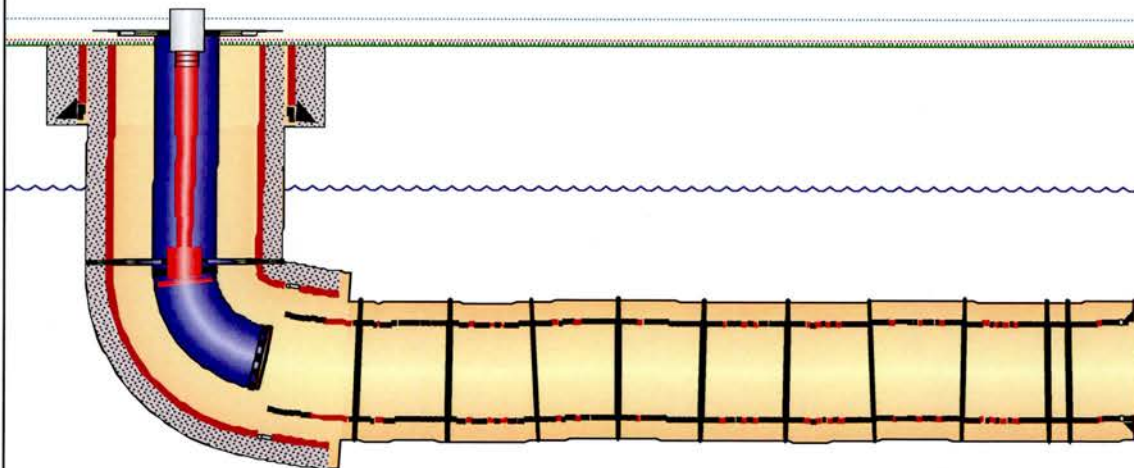
**Most Recent Job**

|                            |  |                    |                         |                      |
|----------------------------|--|--------------------|-------------------------|----------------------|
| Job Category<br>Completion | Primary Job Type<br>Initial Completion | Secondary Job Type | Start Date<br>3/22/2011 | End Date<br>4/2/2011 |
|----------------------------|--|--------------------|-------------------------|----------------------|

**TD: 2,534.00**

HORIZ - Original Hole, 9/2/2011 1:31:36 PM

Directional schematic (actual)





**Paramount**  
resources ltd.

## Schematic - Current

**Well Name: PARA ET AL CAMERON 2H-03 HZ**

|                                  |  |                                |                                       |                                     |
|----------------------------------|--|--------------------------------|---------------------------------------|-------------------------------------|
| API/UWI<br>302/H-03/6010-11730/0 | Surface Legal Location<br>300/2H-03/6010-11730 | License #<br>2073              | Field Name<br>Cameron Hills           | State/Province<br>NT                |
| Well Configuration Type<br>HORIZ | Original KB Elevation (m)<br>777.22            | KB-Ground Distance (m)<br>7.02 | KB-Casing Flange Distance (m)<br>5.02 | KB-Tubing Head Distance (m)<br>4.52 |

**Most Recent Job**

|                            |  |                    |                         |                      |
|----------------------------|--|--------------------|-------------------------|----------------------|
| Job Category<br>Completion | Primary Job Type<br>Initial Completion | Secondary Job Type | Start Date<br>3/22/2011 | End Date<br>4/2/2011 |
|----------------------------|--|--------------------|-------------------------|----------------------|

**TD: 2,534.00**

HORIZ - Original Hole, 9/2/2011 1:31:36 PM

| Vertical schematic (actual) | Column list (actual) |        |                             |
|-----------------------------|----------------------|--------|-----------------------------|
|                             | Depth (MD)           | Length | Description                 |
|                             | 4.03-4.43            | 0.40   | Tubing Hanger/ 5DaN tension |
|                             | 1,250.57-1,251.49    | 0.92   | Anchor/catcher              |
|                             | 1,270.71-1,271.04    | 0.33   | Pump Seating Nipple         |
|                             | 1,488.42-1,489.67    | 1.25   | Perforated Joint            |
|                             | 1,489.67-1,489.90    | 0.23   | Bull Plug/collar            |



**Do It Once  
Do It Right**

# Sour Service 9 Stage RapidMATRIX® HD

| Prepared for  |         | Company             |  | Date                 |        |            |
|---|---------|---------------------|--|----------------------|--------|------------|
| John Williams   |         | Paramount Resources |  | March 20, 2011       |        |            |
| Well Name   |         | Location            |  | Type of Installation |        |            |
| Para Et Al Cameron  |         | 2H-03 HZ            |  | RapidMATRIX® HD      |        |            |
| Depth   | Drawing | Description         |  | OD(mm)               | ID(mm) | Length (m) |
| <b>NOTE: Drill Out ID on String: 3.720" or 94.49mm</b>  |         |                     |  |                      |        |            |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Notes:</b><br/>                     BHP: 9.8mPa<br/>                     BHT: 70° C<br/>                     H2S: 4%<br/>                     Completion Fluid: Water<br/>                     Stimulation:<br/>                     28% HCL Acid w/ CO2 at 20% "quality".<br/>                     10 m3 / min Pumping Rate<br/>                     10 kPa/m slurry density</p> </div> <div style="width: 45%; text-align: right;"> <p><b>Well Profile</b></p> </div> </div> |         |                     |  |                      |        |            |
| <p><b>Casing Frac</b></p> <p>← <b>KOP: 1209.88m</b></p> <p>← <b>Casing: 177.80 mm, 34.23 kg/m L-80 LT&amp;C</b></p>   |         |                     |  |                      |        |            |
| <p>← <b>Casing Collar @ 1503.14m</b></p>  |         |                     |  |                      |        |            |
| <p>← <b>Liner Hanger Top Set @ 1506.80m</b></p> <p>← Packers Plus® Type SF ELB Permanent Plus Liner Hanger Packer<br/>                     Size: 177.80mm (149.22mm O.D.) <b>Top - CE : 1.45m</b></p> <p>← <b>Upper Seal Bore I.D. 120.65 mm (4.750")</b><br/> <b>Lower Seal Bore I.D. 95.25 mm (3.750")</b><br/>                     Elastomers: HSN<br/>                     Metallurgy: L-80<br/>                     Thread: Acme Pin<br/> <b>S/N: EM0029203</b></p>  |         |                     |  |                      |        |            |
| <p>← <b>Deviation 80.2 Deg</b></p> <p>← <b>CE @ 1508.25m</b></p>  |         |                     |  |                      |        |            |
| <p>← <b>Casing Collar @ 1516.95m</b></p> <p>← Packers Plus® Permanent Plus Tailpipe Adaptor<br/>                     Size: 177.80 mm (149.23 mm O.D.)<br/>                     Metallurgy: L-80<br/>                     Thread: Acme Box X 114.30 mm LT&amp;C Pin<br/>                     114.3 mm x 0.94 m long, 20.09 Kg/m LT&amp;C L-80 Pup Joint</p>  |         |                     |  |                      |        |            |
| <p>← <b>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 3 Joints )</b></p>   |         |                     |  |                      |        |            |
| <p>← <b>Casing Shoe Landed: 1531.00m</b><br/> <b>TVD Casing Shoe: 1422.67m</b><br/> <b>Deviation: 86.3 Deg</b><br/> <b>Open Hole Size: 156.00 mm (6¼")</b><br/> <b>Formation: Sulphur Point</b></p>   |         |                     |  |                      |        |            |
| <p>← <b>114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</b></p>  |         |                     |  |                      |        |            |
| <p>← <b>RockSEAL® II Set @ 1552.11m (Set 21.11m below Shoe)</b></p> <p>← Packers Plus®: Hydraulic Set <b>RockSEAL® II</b> Open Hole Dual Element Packer c/w Full Shear<br/>                     Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.)<br/>                     Elastomers: HSN<br/>                     Metallurgy: L-80<br/>                     Thread: 114.30 mm LT&amp;C<br/> <b>S/N: EA0042144</b></p>   |         |                     |  |                      |        |            |
| <p>← <b>Packers Plus®: Fluted Swivel Centralizer (5.812" OD)</b></p>  |         |                     |  |                      |        |            |
| <p>← <b>114.3 mm x 0.94 m long, 20.09 Kg/m LT&amp;C L-80 Pup Joint</b></p>  |         |                     |  |                      |        |            |
| <p>← <b>114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</b></p>  |         |                     |  |                      |        |            |
| <p>← <b>Stage # 9 Depth 1556.49m</b></p> <p>← <b>Packers Plus®: Drillable Shear Activating Assembly c/w Ball Actuation Seat</b><br/>                     Size: 114.30 mm / Thread: LT&amp;C<br/> <b>Ball Seat: 60.325 mm (2.375")</b><br/> <b>Actuation Ball: 63.500 mm (2.500")</b><br/>                     Metallurgy: L-80 / Elastomers: HSN<br/> <b>S/N: EM0038239 / EM0038187</b></p>   |         |                     |  |                      |        |            |
| <p>← <b>RapidJET Subs</b></p> <p>← <b>114.3 mm x 0.94 m long, 20.09 Kg/m LT&amp;C L-80 Pup Joint</b></p>  |         |                     |  |                      |        |            |
| <p>← <b>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 2 Joints )</b></p>   |         |                     |  |                      |        |            |
| <p>← <b>RapidJET @ 1584.83m</b></p> <p>← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br/>                     Size: 114.30 mm / Thread: LT&amp;C<br/>                     Jet Size: <b>25.40 mm (1.00")</b><br/>                     Metallurgy: L-80 / Elastomers: HSN<br/> <b>S/N: FJ-984</b></p>  |         |                     |  |                      |        |            |
| <p>← <b>114.3 mm x 2.82 m long, 17.26 Kg/m LT&amp;C L-80 Pup Joint</b></p> <p>← <b>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 1 Joint )</b></p>   |         |                     |  |                      |        |            |
| <p>← <b>RapidJET @ 1601.42m</b></p> <p>← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br/>                     Size: 114.30 mm / Thread: LT&amp;C<br/>                     Jet Size: <b>25.40 mm (1.00")</b><br/>                     Metallurgy: L-80 / Elastomers: HSN<br/> <b>S/N: FJ-999</b></p>  |         |                     |  |                      |        |            |
| <p>← <b>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 1 Joint )</b></p>  |         |                     |  |                      |        |            |

Subject to Packers Terms Conditions. Some systems/methods/products may be covered by US patent 6,907,936; 7,134,505; 7,108,067; 7,543,834; 7,431,091; 7,021,384; 7,353,878; 7,148,460; 7,762,333; 7,798,226 or other patents pending

|  |  |        |              |       |
|--|--|--------|--------------|-------|
| RapidJET @<br>1615.12m                               | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: FJ-993</b>  | 146.05 | 96.00        | 0.28  |
|  | ← Liner : <b>114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 1 Joint )</b>  | 114.30 | 101.60       | 13.51 |
| RapidJET @<br>1628.91m                               | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: FJ-981</b>  | 146.05 | 96.00        | 0.28  |
|  | ← QTY : <b>1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&amp;C Liner</b>  | 114.30 | 101.60       | 13.49 |
|  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint   | 114.30 | 99.57        | 1.85  |
| Catcher @<br>1644.53m                                | ← Packers Plus®: Shear Activation Tool Catcher c/w Torque Lock Feature<br>Size: 114.30 mm / Thread: LT&C<br>Metallurgy: L-80<br><b>S/N: EM0033973</b>  | 146.05 | 95.25        | 0.60  |
|  | ← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint   | 114.30 | 99.57        | 0.94  |
|  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint   | 114.30 | 99.57        | 1.85  |
| RockSEAL® II<br>Set @<br>1647.92m                    | ← Packers Plus®: Hydraulic Set RockSEAL® II Open Hole Dual Element Packer c/w Full Shear<br>Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.)<br>Elastomers: HSN<br>Metallurgy: L-80<br>Thread: 114.30 mm LT&C<br><b>S/N: EA0031916</b>  | 146.05 | 95.25        | 1.59  |
|  | ← Packers Plus®: Fluted Swivel Centralizer (5.812" OD)   | 147.64 |              |       |
|  | ← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint   | 114.30 | 99.57        | 0.94  |
|  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint   | 114.30 | 99.57        | 1.85  |
| Stage # 8<br>Depth<br>1652.30m<br>4<br>RapidJET Subs | ← Packers Plus®: Drillable Shear Activating Assembly c/w Ball Actuation Seat<br>Size: 114.30 mm / Thread: LT&C<br>Ball Seat: <b>57.150 mm (2.250")</b><br>Actuation Ball: <b>60.325 mm (2.375")</b><br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: EM0038238 / EM0038184</b> | 146.05 | <b>57.15</b> | 0.42  |
|  | ← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint   | 114.30 | 99.57        | 0.94  |
|  | ← Liner : <b>114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 2 Joints )</b>   | 114.30 | 101.60       | 26.97 |
| RapidJET @<br>1680.63m                               | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: FJ-995</b>  | 146.05 | 96.00        | 0.28  |
|  | ← Liner : <b>114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 1 Joint )</b>  | 114.30 | 101.60       | 11.13 |
| RapidJET @<br>1692.04m                               | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: FJ-996</b>  | 146.05 | 96.00        | 0.28  |
|  | ← Liner : <b>114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 2 Joints )</b>   | 114.30 | 101.60       | 26.98 |
| RapidJET @<br>1719.30m                               | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: FJ-989</b>  | 146.05 | 96.00        | 0.28  |
|  | ← Liner : <b>114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 1 Joint )</b>  | 114.30 | 101.60       | 13.50 |
| RapidJET @<br>1733.08m                               | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: FJ-994</b>  | 146.05 | 96.00        | 0.28  |
|  | ← QTY : <b>1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&amp;C Liner</b>  | 114.30 | 101.60       | 13.51 |
|  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint   | 114.30 | 99.57        | 1.85  |
| Catcher @<br>1748.72m                                | ← Packers Plus®: Shear Activation Tool Catcher c/w Torque Lock Feature<br>Size: 114.30 mm / Thread: LT&C<br>Metallurgy: L-80<br><b>S/N: EM0033970</b>  | 146.05 | 95.25        | 0.60  |
|  | ← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint   | 114.30 | 99.57        | 0.94  |
|  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint   | 114.30 | 99.57        | 1.85  |
| RockSEAL® II<br>Set @<br>1752.11m                    | ← Packers Plus®: Hydraulic Set RockSEAL® II Open Hole Dual Element Packer c/w Full Shear<br>Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.)<br>Elastomers: HSN<br>Metallurgy: L-80<br>Thread: 114.30 mm LT&C<br><b>S/N: EA0031918</b>  | 146.05 | 95.25        | 1.59  |
|  | ← Packers Plus®: Fluted Swivel Centralizer (5.812" OD) (5.812" OD)   | 147.64 |              |       |

|                                     |  |   |   |        |              |       |
|-------------------------------------|--|---|---|--------|--------------|-------|
|                                     |  | ← | 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint  | 114.30 | 99.57        | 0.94  |
|                                     |  | ← | 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup Joint  | 114.30 | 99.57        | 1.85  |
| Stage # 7<br>Depth<br>1756.49m<br>4 |  | ← | <b>Packers Plus®: Drillable Shear Activating Assembly</b> c/w Ball Actuation Seat<br>Size: 114.30 mm / Thread: LT&C<br>Ball Seat: <b>53.975 mm (2.125")</b><br>Actuation Ball: <b>57.150 mm (2.250")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>EM0038246 / EM0038180</b> | 146.05 | <b>53.98</b> | 0.42  |
| RapidJET Sub                        |  | ← | 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint  | 114.30 | 99.57        | 0.94  |
|                                     |  | ← | Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )   | 114.30 | 101.60       | 26.99 |
| RapidJET @<br>1784.84m              |  | ← | <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>FJ-983</b>  | 146.05 | 96.00        | 0.28  |
|                                     |  | ← | Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 1 Joint )  | 114.30 | 101.60       | 13.49 |
| RapidJET @<br>1798.61m              |  | ← | <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>FJ-997</b>  | 146.05 | 96.00        | 0.28  |
|                                     |  | ← | Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )   | 114.30 | 101.60       | 26.16 |
| RapidJET @<br>1825.05m              |  | ← | <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>FJ-992</b>  | 146.05 | 96.00        | 0.28  |
|                                     |  | ← | Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 1 Joint )  | 114.30 | 101.60       | 12.23 |
| RapidJET @<br>1837.56m              |  | ← | <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>EM0034018</b>   | 146.05 | 96.00        | 0.28  |
|                                     |  | ← | QTY : 1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&C Liner  | 114.30 | 101.60       | 13.50 |
|                                     |  | ← | 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57        | 1.85  |
| Catcher @<br>1853.19m               |  | ← | <b>Packers Plus®: Shear Activation Tool Catcher</b> c/w Torque Lock Feature<br>Size: 114.30 mm / Thread: LT&C<br>Metallurgy: L-80<br>S/N: <b>EM0033971</b>  | 146.05 | 95.25        | 0.60  |
|                                     |  | ← | 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint  | 114.30 | 99.57        | 0.94  |
|                                     |  | ← | 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57        | 1.85  |
| RockSEAL® II<br>Set @<br>1856.58m   |  | ← | <b>Packers Plus®: Hydraulic Set RockSEAL® II Open Hole Dual Element Packer</b> c/w Full Shear<br>Size: 177.80 mm x 114.30 mm (6.75" Packer O.D.)<br>Elastomers: HSN<br>Metallurgy: L-80<br>Thread: 114.30 mm LT&C<br>S/N: <b>EA0031920</b>  | 146.05 | 95.25        | 1.59  |
|                                     |  | ← | <b>Packers Plus®: Fluted Swivel Centralizer (5.812" OD)</b>   | 147.64 |              |       |
|                                     |  | ← | 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint  | 114.30 | 99.57        | 0.94  |
|                                     |  | ← | 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57        | 1.85  |
| Stage # 6<br>Depth<br>1860.96<br>4  |  | ← | <b>Packers Plus®: Drillable Shear Activating Assembly</b> c/w Ball Actuation Seat<br>Size: 114.30 mm / Thread: LT&C<br>Ball Seat: <b>50.800 mm (2.000")</b><br>Actuation Ball: <b>53.975 mm (2.125")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>EM0038199 / EM0037584</b> | 146.05 | <b>50.80</b> | 0.42  |
| RapidJET Sub                        |  | ← | 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint  | 114.30 | 99.57        | 0.94  |
|                                     |  | ← | Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )   | 114.30 | 101.60       | 26.87 |
| RapidJET @<br>1889.19m              |  | ← | <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>EM0034021</b>   | 146.05 | 96.00        | 0.28  |
|                                     |  | ← | Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 1 Joint )  | 114.30 | 101.60       | 13.50 |
| RapidJET @<br>1902.97m              |  | ← | <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>EM0034020</b>   | 146.05 | 96.00        | 0.28  |
|                                     |  | ← | Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 1 Joint )  | 114.30 | 101.60       | 13.50 |
| RapidJET @<br>1916.75m              |  | ← | <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>25.40 mm (1.00")</b>  | 146.05 | 96.00        | 0.28  |



|  |  |   |        |        |       |
|--|--|---|--------|--------|-------|
|  |  | Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: EM0034019</b><br>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 1 Joint )   | 114.30 | 101.60 | 13.50 |
| RapidJET @<br>1930.53m                               |  | ← <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: 25.40 mm (1.00")<br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: EM0033985</b><br>114.3 mm x 2.86 m long, 17.26 Kg/m LT&C L-80 Pup Joint  | 146.05 | 96.00  | 0.28  |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 101.60 | 2.86  |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 1.85  |
| Catcher @<br>1935.52m                                |  | ← <b>Packers Plus®: Shear Activation Tool Catcher c/w Torque Lock Feature</b><br>Size: 114.30 mm / Thread: LT&C<br>Metallurgy: L-80<br><b>S/N: EM0033972</b><br>114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint  | 146.05 | 95.25  | 0.60  |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 0.94  |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 1.85  |
| RockSEAL® II<br>Set @<br>1938.91m                    |  | ← <b>Packers Plus®: Hydraulic Set RockSEAL® II Open Hole Dual Element Packer c/w Full Shear</b><br>Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.)<br>Elastomers: HSN<br>Metallurgy: L-80<br>Thread: 114.30 mm LT&C<br><b>S/N: EA0031922</b><br>← <b>Packers Plus®: Fluted Swivel Centralizer (5.812" OD)</b>                     | 146.05 | 95.25  | 1.59  |
|  |  | ← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint  | 147.64 |        |       |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 0.94  |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 1.85  |
| Stage # 5<br>Depth<br>1943.29m<br>4<br>RapidJET Subs |  | ← <b>Packers Plus®: Drillable Shear Activating Assembly c/w Ball Actuation Seat</b><br>Size: 114.30 mm / Thread: LT&C<br>Ball Seat: 47.625 mm (1.875")<br>Actuation Ball: 50.800 mm (2.000")<br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: EM0038225 / EM0038178</b><br>114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint | 146.05 | 47.63  | 0.42  |
|  |  | ← <b>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 2 Joints )</b>  | 114.30 | 99.57  | 0.94  |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 101.60 | 25.74 |
| RapidJET @<br>1970.39m                               |  | ← <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: 25.40 mm (1.00")<br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: EM0033984</b><br>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 1 Joint )  | 146.05 | 96.00  | 0.28  |
|  |  | ← <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: 25.40 mm (1.00")<br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: EM0033983</b><br>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )   | 114.30 | 101.60 | 13.50 |
| RapidJET @<br>1984.17m                               |  | ← <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: 25.40 mm (1.00")<br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: EM0033982</b><br>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )   | 146.05 | 96.00  | 0.28  |
|  |  | ← <b>Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation</b><br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: 25.40 mm (1.00")<br>Metallurgy: L-80 / Elastomers: HSN<br><b>S/N: EM0033981</b><br>QTY : 1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&C Liner  | 114.30 | 101.60 | 26.99 |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 101.60 | 26.99 |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 1.85  |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 1.85  |
| Catcher @<br>2053.27m                                |  | ← <b>Packers Plus®: Shear Activation Tool Catcher c/w Torque Lock Feature</b><br>Size: 114.30 mm / Thread: LT&C<br>Metallurgy: L-80<br><b>S/N: EM0033976</b><br>114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint  | 146.05 | 95.25  | 0.60  |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 0.94  |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 1.85  |
| RockSEAL® II<br>Set @<br>2056.66m                    |  | ← <b>Packers Plus®: Hydraulic Set RockSEAL® II Open Hole Dual Element Packer c/w Full Shear</b><br>Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.)<br>Elastomers: HSN<br>Metallurgy: L-80<br>Thread: 114.30 mm LT&C<br><b>S/N: EA0042130</b><br>← <b>Packers Plus®: Fluted Swivel Centralizer (5.812" OD)</b>                     | 146.05 | 95.25  | 1.59  |
|  |  | ← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint  | 147.64 |        |       |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 0.94  |
|  |  | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint  | 114.30 | 99.57  | 1.85  |

|   |  |        |              |       |
|---|--|--------|--------------|-------|
| Stage # 4<br>Depth<br>2061.04m<br>4<br>RapidJET Sub | ← Packers Plus®: Drillable Shear Activating Assembly c/w Ball Actuation Seat<br>Size: 114.30 mm / Thread: LT&C<br>Ball Seat: <b>44.450 mm (1.750")</b><br>Actuation Ball: <b>47.625 mm (1.875")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>EM0038247 / EM0038433</b> | 146.05 | <b>44.45</b> | 0.42  |
|   | ← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint   | 114.30 | 99.57        | 0.94  |
|   | ← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )  | 114.30 | 101.60       | 26.98 |
| RapidJET @<br>2089.38m                              | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>22.23 mm (0.875")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>FJ-988</b>   | 146.05 | 96.00        | 0.28  |
|   | ← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )  | 114.30 | 101.60       | 26.98 |
| RapidJET @<br>2116.64m                              | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>22.23 mm (0.875")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>FJ-987</b>   | 146.05 | 96.00        | 0.28  |
|   | ← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )  | 114.30 | 101.60       | 26.97 |
| RapidJET @<br>2143.89m                              | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>22.23 mm (0.875")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>FJ-991</b>   | 146.05 | 96.00        | 0.28  |
|   | ← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )  | 114.30 | 101.60       | 26.98 |
| RapidJET @<br>2171.15m                              | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>22.23 mm (0.875")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>FJ-985</b>   | 146.05 | 96.00        | 0.28  |
|   | ← QTY : 1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&C Liner   | 114.30 | 101.60       | 13.49 |
|   | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint   | 114.30 | 99.57        | 1.85  |
| Catcher @<br>2186.77m                               | ← Packers Plus®: Shear Activation Tool Catcher c/w Torque Lock Feature<br>Size: 114.30 mm / Thread: LT&C<br>Metallurgy: L-80<br>S/N: <b>EM0033974</b>  | 146.05 | 95.25        | 0.60  |
|   | ← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint   | 114.30 | 99.57        | 0.94  |
|   | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint   | 114.30 | 99.57        | 1.85  |
| RockSEAL® II<br>Set @<br>2190.16m                   | ← Packers Plus®: Hydraulic Set RockSEAL® II Open Hole Dual Element Packer c/w Full Shear<br>Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.)<br>Elastomers: HSN<br>Metallurgy: L-80<br>Thread: 114.30 mm LT&C<br>S/N: <b>EA0042156</b>  | 146.05 | 95.25        | 1.59  |
|   | ← Packers Plus®: Fluted Swivel Centralizer (5.812" OD)   | 147.64 |              |       |
|   | ← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint   | 114.30 | 99.57        | 0.94  |
|   | ← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&C L-80 Pup joint   | 114.30 | 99.57        | 1.85  |
| Stage # 3<br>Depth<br>2194.54m<br>4<br>RapidJET Sub | ← Packers Plus®: Drillable Shear Activating Assembly c/w Ball Actuation Seat<br>Size: 114.30 mm / Thread: LT&C<br>Ball Seat: <b>41.275 mm (1.625")</b><br>Actuation Ball: <b>44.450 mm (1.750")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>EM0038223 / EM0038193</b> | 146.05 | <b>41.28</b> | 0.42  |
|   | ← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&C L-80 Pup Joint   | 114.30 | 99.57        | 0.94  |
|   | ← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )  | 114.30 | 101.60       | 26.99 |
| RapidJET @<br>2222.89m                              | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>22.23 mm (0.875")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>FJ-982</b>   | 146.05 | 96.00        | 0.28  |
|   | ← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )  | 114.30 | 101.60       | 26.99 |
| RapidJET @<br>2250.16m                              | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>22.23 mm (0.875")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>FJ-986</b>   | 146.05 | 96.00        | 0.28  |
|   | ← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 2 Joints )  | 114.30 | 101.60       | 26.97 |
| RapidJET @<br>2277.41m                              | ← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br>Size: 114.30 mm / Thread: LT&C<br>Jet Size: <b>22.23 mm (0.875")</b><br>Metallurgy: L-80 / Elastomers: HSN<br>S/N: <b>FJ-990</b>   | 146.05 | 96.00        | 0.28  |
|   | ← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&C ( 1 Joint )   | 114.30 | 101.60       | 13.49 |

|  |   |        |        |       |
|--|---|--------|--------|-------|
| RapidJET @<br>2291.18m                               | <p>← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br/>Size: 114.30mm / Thread: LT&amp;C<br/>Jet Size: 22.23 mm (0.875")<br/>Metallurgy: L-80 / Elastomers: HSN<br/>S/N: FJ-998</p> <p>← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 2 Joints )</p> <p>← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</p>   | 146.05 | 96.00  | 0.28  |
| Catcher @<br>2320.31m                                | <p>← Packers Plus®: Shear Activation Tool Catcher c/w Torque Lock Feature<br/>Size: 114.30 mm / Thread: LT&amp;C<br/>Metallurgy: L-80<br/>S/N: EM0033975</p> <p>← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&amp;C L-80 Pup Joint</p> <p>← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</p>  | 146.05 | 101.60 | 27.00 |
| RockSEAL® II<br>Set @<br>2323.70m                    | <p>← Packers Plus®: Hydraulic Set RockSEAL® II Open Hole Dual Element Packer c/w Full Shear<br/>Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.)<br/>Elastomers: HSN<br/>Metallurgy: L-80<br/>Thread: 114.30 mm LT&amp;C<br/>S/N: EA0042162</p> <p>← Packers Plus®: Fluted Swivel Centralizer (5.812" OD)</p> <p>← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&amp;C L-80 Pup Joint</p> <p>← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</p>  | 146.05 | 95.25  | 0.60  |
| Stage # 2<br>Depth<br>2328.08m<br>4<br>RapidJET Subs | <p>← Packers Plus®: Drillable Shear Activating Assembly c/w Ball Actuation Seat<br/>Size: 114.30 mm / Thread: LT&amp;C<br/>Ball Seat: 38.10 mm (1.500")<br/>Actuation Ball: 41.27 mm (1.625")<br/>Metallurgy: L-80 / Elastomers: HSN<br/>S/N: EM0038224 / EM0035713</p> <p>← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&amp;C L-80 Pup Joint</p> <p>← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 2 Joints )</p>  | 146.05 | 38.10  | 0.42  |
| RapidJET @<br>2356.42m                               | <p>← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br/>Size: 114.30 mm / Thread: LT&amp;C<br/>Jet Size: 19.05 mm (0.750")<br/>Metallurgy: L-80 / Elastomers: HSN<br/>S/N: EM0033598</p> <p>← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 2 Joints )</p>   | 146.05 | 96.00  | 0.33  |
| RapidJET @<br>2383.64m                               | <p>← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br/>Size: 114.30 mm / Thread: LT&amp;C<br/>Jet Size: 19.05 mm (0.750")<br/>Metallurgy: L-80 / Elastomers: HSN<br/>S/N: EM0033597</p> <p>← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 2 Joints )</p>   | 146.05 | 101.60 | 26.89 |
| RapidJET @<br>2410.93m                               | <p>← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br/>Size: 114.30 mm / Thread: LT&amp;C<br/>Jet Size: 19.05 mm (0.750")<br/>Metallurgy: L-80 / Elastomers: HSN<br/>S/N: EM0033596</p> <p>← Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 2 Joints )</p>   | 146.05 | 96.00  | 0.33  |
| RapidJET @<br>2438.25m                               | <p>← Packers Plus®: Shear Activated RapidJET Sub For Limited Entry Matrix Stimulation<br/>Size: 114.30mm / Thread: LT&amp;C<br/>Jet Size: 19.05 mm (0.750")<br/>Metallurgy: L-80 / Elastomers: HSN<br/>S/N: EM0033595</p> <p>← QTY : 1 Joint - 114.3 mm, 17.26 Kg/m L-80 LT&amp;C Liner</p> <p>← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</p>   | 146.05 | 101.60 | 13.48 |
| Catcher @<br>2453.91m                                | <p>← Packers Plus®: Shear Activation Tool Catcher c/w Torque Lock Feature<br/>Size: 114.30 mm / Thread: LT&amp;C<br/>Metallurgy: L-80<br/>S/N: EM0033969</p> <p>← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&amp;C L-80 Pup Joint</p> <p>← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</p>  | 146.05 | 95.25  | 0.60  |
| RockSEAL® II<br>Set @<br>2457.30m                    | <p>← Packers Plus®: Hydraulic Set RockSEAL® II Open Hole Dual Element Packer c/w Full Shear<br/>Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.)<br/>Elastomers: HSN<br/>Metallurgy: L-80<br/>Thread: 114.30 mm LT&amp;C<br/>S/N: EA0042158</p> <p>← Packers Plus®: Fluted Swivel Centralizer (5.812" OD)</p> <p>← 114.3 mm x 0.94 m long, 20.09 Kg/m LT&amp;C L-80 Pup Joint</p> <p>← QTY : 1 Joint - 114.3 mm x 17.26 Kg/m x L-80 LT&amp;C Liner</p> <p>← 114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</p> | 146.05 | 95.25  | 1.59  |
| Anchor Packer<br>@ 2475.18m                          | <p>← 177.80 mm X 114.30 mm RockSEAL® IIS Hydraulic Set Open Hole Packer c/w Rock Anchor System<br/>Size: 177.80 mm x 114.30 mm (5.75" Packer O.D.)<br/>Elastomers: HSN<br/>Metallurgy: L-80<br/>Thread: 114.30 mm LT&amp;C</p>  | 146.05 | 95.25  | 2.15  |

|   |   |                                      |   |       |  |
|---|---|--------------------------------------|---|-------|--|
| <p>Stage #1 FracPORT @ 2492.75m</p> <p>Toe Circ Sub @ 2523.84m</p> <p>Liner Bottom @ 2529.00m</p> | <p>S/N: EM0038675<br/>Packers Plus®: Fluted Swivel Centralizer (5.812" OD)</p>  | 147.64                               |   |       |  |
|   | <p>114.3 mm x 0.94 m long, 20.09 Kg/m LT&amp;C L-80 Pup Joint</p>   | 114.30                               | 99.57   | 0.94  |  |
|   | <p>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 1 Joint )</p>   | 114.30                               | 101.60  | 12.63 |  |
|   | <p>114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</p>   | 114.30                               | 99.57   | 1.85  |  |
|   | <p>Packers Plus®: DEH (Dual External Hydraulic) FracPORT™<br/>Size: 114.30 mm / Thread: LT&amp;C <b>Pinned To Open @ 32.3mpa Differential Pressure</b><br/>Elastomers: HSN<br/>Metallurgy: L-80<br/>S/N: EM0038086</p>      | 146.05                               | 95.25   | 1.32  |  |
|   | <p>114.3 mm x 0.94 m long, 20.09 Kg/m LT&amp;C L-80 Pup Joint</p>   | 114.30                               | 101.60  | 0.94  |  |
|   | <p>114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</p>   | 114.30                               | 99.57   | 1.85  |  |
|   | <p>Liner : 114.3 mm, 17.26 Kg/m L-80 LT&amp;C ( 2 Joints )</p>  | 114.30                               | 101.60  | 26.98 |  |
|   | <p>Packers Plus®: Toe Circulating Sub<br/>Size: 114.30 mm<br/>Ball Seat: <b>25.400 mm (1.000")</b><br/>Actuation Ball: <b>31.750 mm (1.250")</b><br/>Metallurgy: L-80<br/>Thread: 114.30 mm LT&amp;C<br/>S/N: EM0038175</p> | 146.00                               | <b>25.40</b>  | 0.83  |  |
|   | <p>114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</p>   | 114.30                               | 99.57   | 1.85  |  |
|   | <p>Float Collar (Third Party)<br/>Size: 114.30 mm LT&amp;C</p>  | 139.70                               | N/A   | 0.40  |  |
|   | <p>114.3 mm x 1.85 m long, 20.09 Kg/m LT&amp;C L-80 Pup joint</p>   | 114.30                               | 99.57   | 1.85  |  |
|   | <p>Packers Plus®: Bullet Style Re-Entry Guide<br/>Size: 139.70 mm (OD)<br/>Thread: 114.30 mm LT&amp;C</p>   | 139.70                               | 76.00   | 0.23  |  |
| <p>TD : 2534.00m / TVD : 1422.67m</p>   |   |                                      |   |       |  |
| <p>Service Center<br/>Grande Prairie</p>  | <p>Telephone<br/>(780) 402-7701</p>   | <p>Station Manager<br/>Don Gerig</p> | <p>Company Status<br/>Darren Unger 780 512 6005</p> |       |  |



Do It Once  
Do It Right

Company: Paramount Resources  
Location: Cameron Hills  
Well Name: 2H-03 HZ  
Date: 20-Mar-11  
Actual Depths

RockSEAL® Packer and RapidJET Depths / Volumes and Data Sheet  
Rapid Matrix Stimulation

| Stage # | Tool Description                        | Seat (in) | Ball (in) | Ball Type     | Depth (m) | Distances Between                                     | m      | Notes:              | Flush m3 |
|---------|---|-----------|-----------|---------------|-----------|---|--------|---------------------|----------|
|         | Intermediate Casing<br>Liner Hanger     |           |           |               | 1506.80   | 80.2 Deg. Deviation                                   |        |                     | 30.94    |
|         | Casing Shoe                             |           |           |               | 1531.00   |   |        |                     |          |
|         | Casing                                  |           |           |               | 1552.11   |   |        | 21.11 m outside ICP |          |
| 9       | RockSEAL® Packer<br>Activating Assembly | 2.375     | 2.500     | SF-6 (1.8 SG) | 1556.49   | Distance of Stage                                     | 95.81  |                     | 31.34    |
|         | Casing 2 Joints                         |           |           |               | 1584.83   |   |        |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1601.42   | Minimum flush volume<br>(Activator to top jet volume) | 1.01   |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1615.12   |   |        |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1628.91   |   |        |                     |          |
|         | Casing 1 Joint                          |           |           |               | 1644.53   |   |        |                     | 32.06    |
|         | Catcher Sub                             |           |           |               | 1647.92   |   |        |                     |          |
| 8       | RockSEAL® Packer<br>Activating Assembly | 2.250     | 2.375     | SF-6 (1.8 SG) | 1652.30   | Distance of Stage                                     | 104.19 |                     | 32.12    |
|         | Casing 2 Joints                         |           |           |               | 1680.63   |   |        |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1692.04   | Minimum flush volume<br>(Activator to top jet volume) | 1.07   |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1719.30   |   |        |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1733.08   |   |        |                     |          |
|         | Casing 1 Joint                          |           |           |               | 1748.72   |   |        |                     | 32.90    |
|         | Catcher Sub                             |           |           |               | 1752.11   |   |        |                     |          |
| 7       | RockSEAL® Packer<br>Activating Assembly | 2.125     | 2.250     | SF-6 (1.8 SG) | 1756.49   | Distance of Stage                                     | 104.47 |                     | 32.97    |
|         | Casing 2 Joints                         |           |           |               | 1784.84   |   |        |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1798.61   | Minimum flush volume<br>(Activator to top jet volume) | 1.08   |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1825.05   |   |        |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1837.56   |   |        |                     |          |
|         | Casing 1 Joint                          |           |           |               | 1853.19   |   |        |                     | 33.75    |
|         | Catcher Sub                             |           |           |               | 1856.58   |   |        |                     |          |
| 6       | RockSEAL® Packer<br>Activating Assembly | 2.000     | 2.125     | SF-6 (1.8 SG) | 1860.96   | Distance of Stage                                     | 82.33  |                     | 33.81    |
|         | Casing 2 Joints                         |           |           |               | 1889.19   |   |        |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1902.97   | Minimum flush volume<br>(Activator to top jet volume) | 0.89   |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1916.75   |   |        |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1930.53   |   |        |                     |          |
|         | Casing 1 Joint                          |           |           |               | 1935.52   |   |        |                     | 34.42    |
|         | Catcher Sub                             |           |           |               | 1938.91   |   |        |                     |          |
| 5       | RockSEAL® Packer<br>Activating Assembly | 1.875     | 2.000     | SF-6 (1.8 SG) | 1943.29   | Distance of Stage                                     | 117.75 |                     | 34.48    |
|         | Casing 2 Joints                         |           |           |               | 1970.39   |   |        |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 1984.17   | Minimum flush volume<br>(Activator to top jet volume) | 1.18   |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 2011.44   |   |        |                     |          |
|         | RapidJET (1.0")                         |           |           |               | 2038.71   |   |        |                     |          |
|         | Casing 1 Joint                          |           |           |               | 2053.27   |   |        |                     | 35.37    |
|         | Catcher Sub                             |           |           |               | 2056.66   |   |        |                     |          |
| 4       | RockSEAL® Packer<br>Activating Assembly | 1.750     | 1.875     | SF-6 (1.8 SG) | 2061.04   | Distance of Stage                                     | 133.50 |                     | 35.44    |
|         | Casing 2 Joints                         |           |           |               | 2089.38   |   |        |                     |          |
|         | RapidJET (0.875")                       |           |           |               | 2116.64   | Minimum flush volume<br>(Activator to top jet volume) | 1.31   |                     |          |
|         | RapidJET (0.875")                       |           |           |               | 2143.89   |   |        |                     |          |
|         | RapidJET (0.875")                       |           |           |               | 2171.15   |   |        |                     |          |
|         | Casing 1 Joint                          |           |           |               | 2186.77   |   |        |                     | 36.45    |
|         | Catcher Sub                             |           |           |               | 2190.16   |   |        |                     |          |
| 3       | RockSEAL® Packer<br>Activating Assembly | 1.625     | 1.750     | SF-6 (1.8 SG) | 2194.54   | Distance of Stage                                     | 133.54 |                     | 36.52    |
|         | Casing 2 Joints                         |           |           |               | 2222.89   |   |        |                     |          |
|         | RapidJET (0.875")                       |           |           |               | 2250.16   | Minimum flush volume<br>(Activator to top jet volume) | 1.31   |                     |          |
|         | RapidJET (0.875")                       |           |           |               | 2277.41   |   |        |                     |          |
|         | RapidJET (0.875")                       |           |           |               | 2291.18   |   |        |                     |          |
|         | Casing 1 Joint                          |           |           |               | 2320.31   |   |        |                     | 37.54    |
|         | Catcher Sub                             |           |           |               | 2323.70   |   |        |                     |          |
| 2       | RockSEAL® Packer<br>Activating Assembly | 1.500     | 1.625     | SF-6 (1.8 SG) | 2328.08   | Distance of Stage                                     | 133.60 |                     | 37.60    |
|         | Casing 2 Joints                         |           |           |               | 2356.42   |   |        |                     |          |
|         | RapidJET (0.750")                       |           |           |               | 2383.64   | Minimum flush volume<br>(Activator to top jet volume) | 1.33   |                     |          |
|         | RapidJET (0.750")                       |           |           |               | 2410.93   |   |        |                     |          |
|         | RapidJET (0.750")                       |           |           |               | 2438.25   |   |        |                     |          |
|         | Casing 2 Joints                         |           |           |               | 2453.91   |   |        |                     | 38.62    |
|         | Catcher Sub                             |           |           |               | 2457.30   |   |        |                     |          |
|         | Casing                                  |           |           |               | 2475.18   |   |        |                     |          |
|         | RockSEAL® Packer                        |           |           |               | 2475.18   |   |        |                     |          |
|         | 1 Joint                                 |           |           |               | 2475.18   |   |        |                     |          |
|         | RockSEAL® Packer IIS                    |           |           |               | 2475.18   |   |        |                     |          |
|         | 1 Joint                                 |           |           |               | 2475.18   |   |        |                     |          |
| 1       | FracPORT™ (DEH)                         | N/A       | N/A       | N/A           | 2492.75   | Distance of Stage                                     | 58.82  |                     | 38.94    |
|         | 2 Joints                                |           |           |               | 2529.00   |   |        |                     |          |
|         | Btm assembly                            |           |           |               | 2534.00   |   |        |                     |          |
|         | TD                                      |           |           |               | 2534.00   |   |        |                     |          |

Notes:

Description

114.3 mm, 17.26 Kg/m, L-80 Liner:  
177.8 mm, 34.3 kg/m L-80

Tubular Capacities

0.008107 m<sup>3</sup>/m  
0.020535 m<sup>3</sup>/m

100% of Burst

53,642  
43,700

% of Burst

73%  
90%

Input Data:

Frac Fluid weight 1,142 kg / m<sup>3</sup>  
Max sand concentration 0 kg / m<sup>3</sup>  
BHP 9,800 kPa  
Max Hydrostatic of slurry 1,142 kg / m<sup>3</sup>  
TVD 1,422.67 m

Frac Information:

28% HCL Acid w/ CO<sub>2</sub> at 20% "quality".  
10 m<sup>3</sup> / min Pumping Rate  
10 kPa/m slurry density

Expected Treating Pressure

Max Surface Pressure w/ Max Sand Concentration (Screen out)

Max Applied Surface Pres. 33,192 kPa  
+ Hydrostatic of Fluid Slurry 15,938 kPa  
- BHP 9,800 kPa  
= 39,330 90% of 178mm Casing

Max Surface Pressure w/ Clean Frac Fluid (Break down or ball opening)

Max Applied Surface Pres. 33,192 kPa  
+ Hydrostatic of Fluid 15,938 kPa  
- BHP 9,800 kPa

# Fracture Treatment Summary

Paramount Resources Ltd.

Para et al Cameron 2H-03-60-117-30

Sulphur Point

Prepared by Jerradt Seier

Pressure Pumping – Fracturing Services



June 2011



## Contents

|                                   |   |
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| Discussion .....                  | 2 |
| Designed Treatment Geometry ..... | 3 |
| Job Treatment Data .....          | 4 |
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## Discussion

The Paramount Cameron Hills frac on the 2H-03-60-10-117-30 well in the Sulphur Point interval was executed as planned. Each interval received the scheduled volume of 40 m<sup>3</sup> of 15% HCl acid and utilized 10 m<sup>3</sup> of a crosslinked water system Medallion as a diverter.

Given that we achieved the designed volumes and rates for the treatment, the modeled geometry is deemed representative.

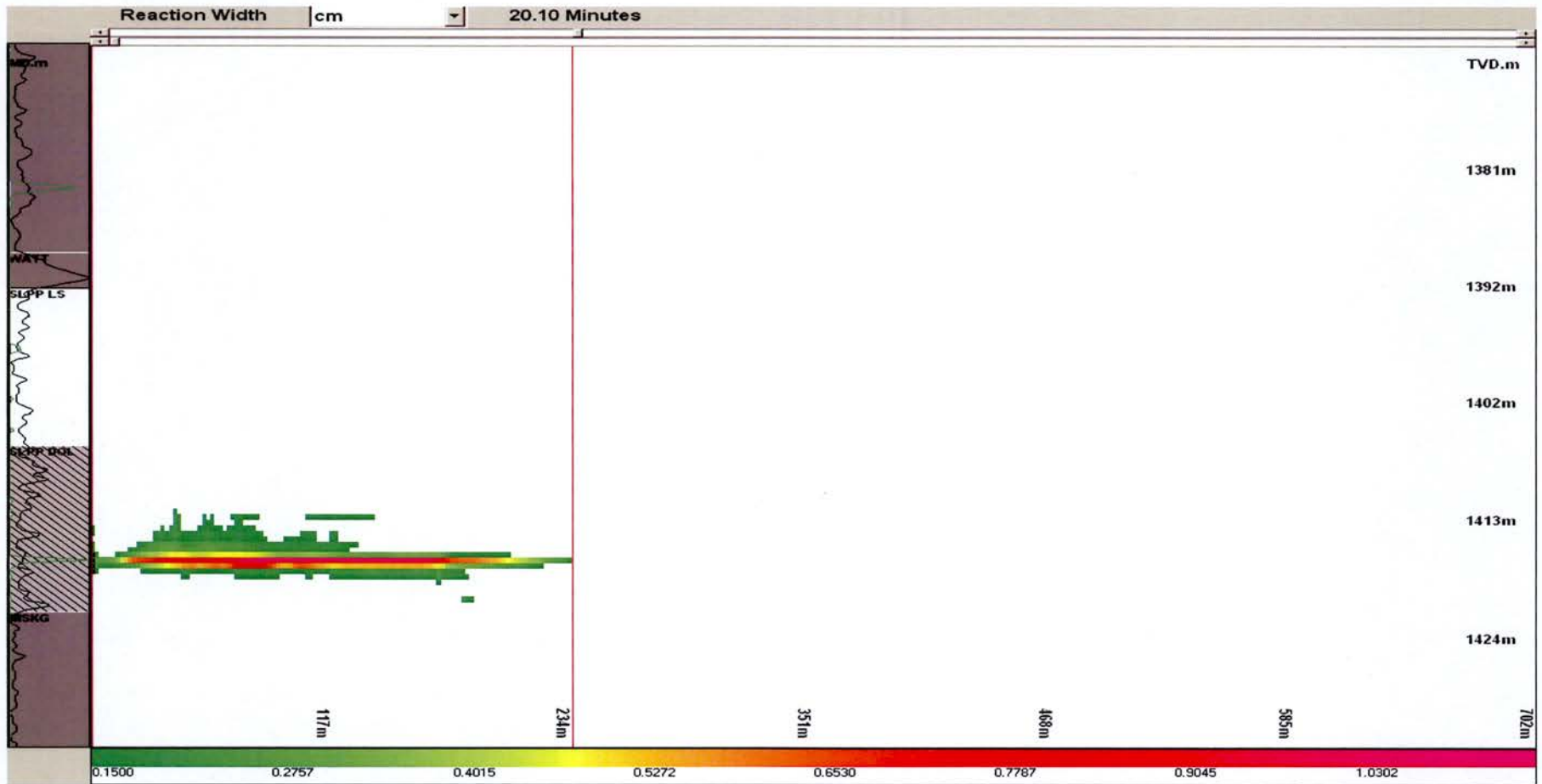
A ball seat pressure signature was observed between each stage. Each of these signatures were followed by a different treating pressure profile. These characteristics would suggest that each stage were isolated and received the planned volume of acid.

The treatment is deemed successful as planned.



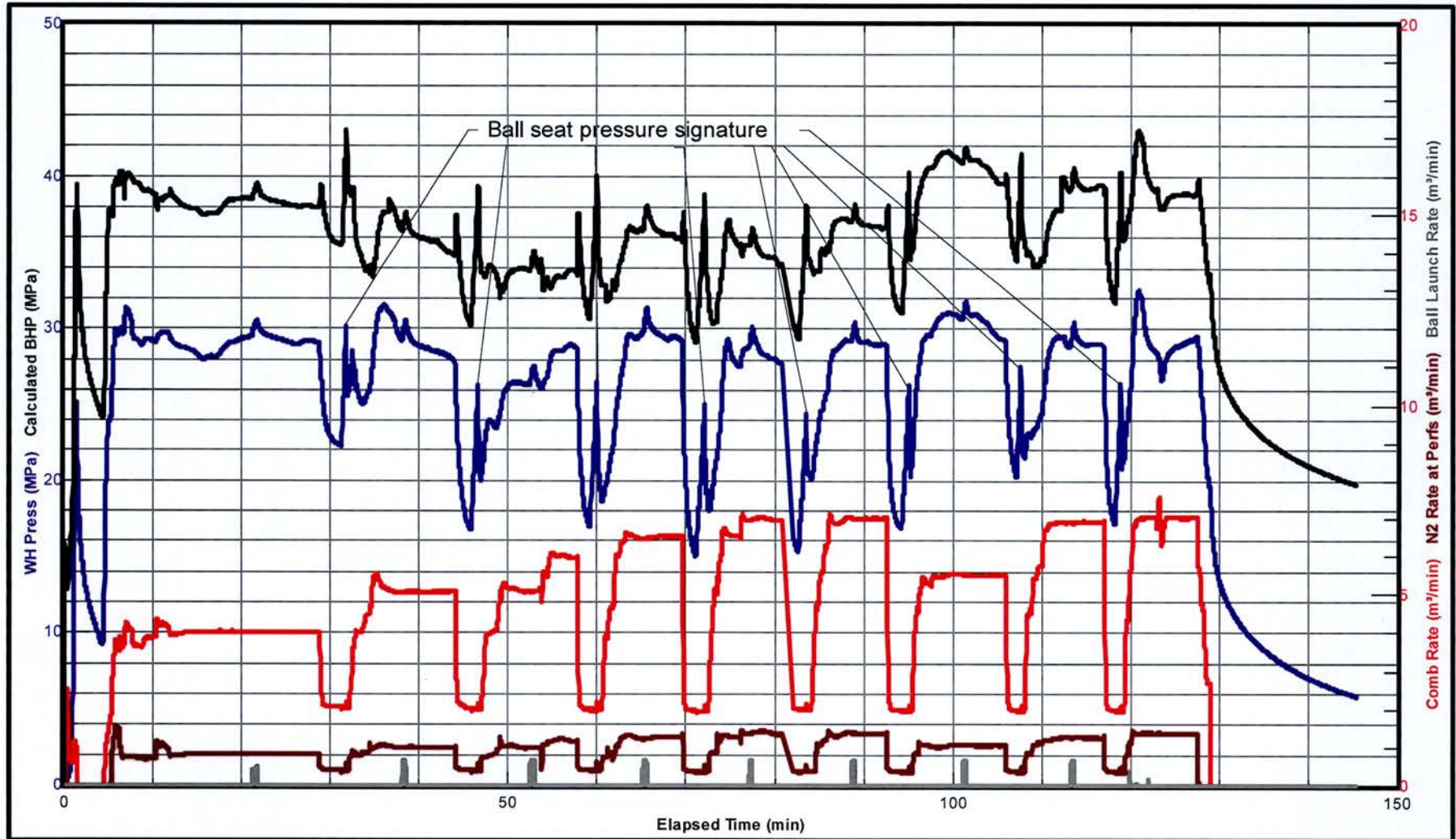
## Designed Treatment Geometry

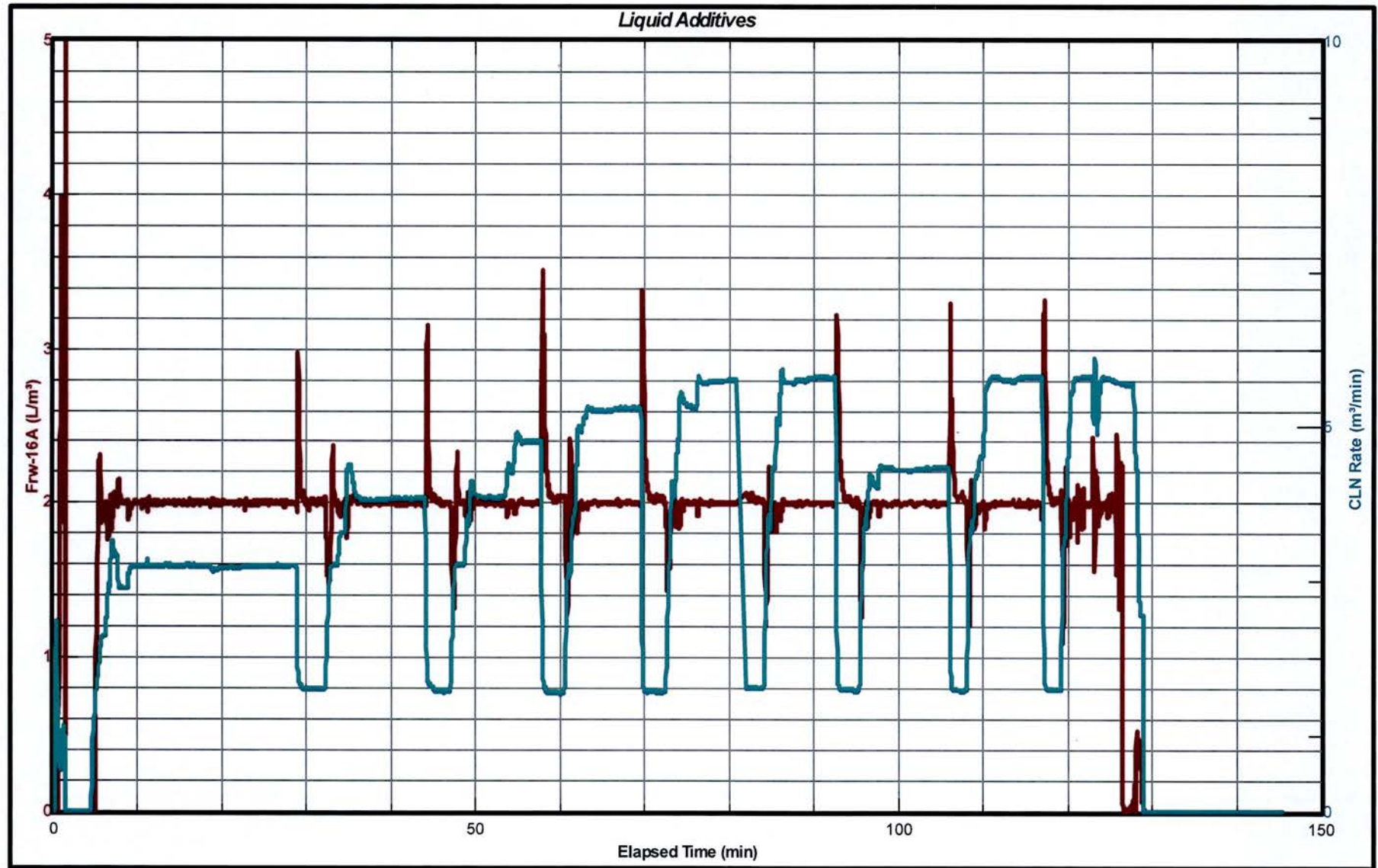
Fracture modeling was done on an offset wellbore, A-03-60-10-117-30. The resulting etched width is modeled from a 40 m<sup>3</sup> 15% HCl with 10 m<sup>3</sup> Medallion Diverter Gel treatment. These are the treatment volumes that were pumped per stage. Given that we pumped the treatment with the planned volumes and rates, the simulated geometry is our best representation of the fracture. The conductive etched dimensions represented are 234 m in fracture half length, 6.5 m in height and 1.23 mm of width.

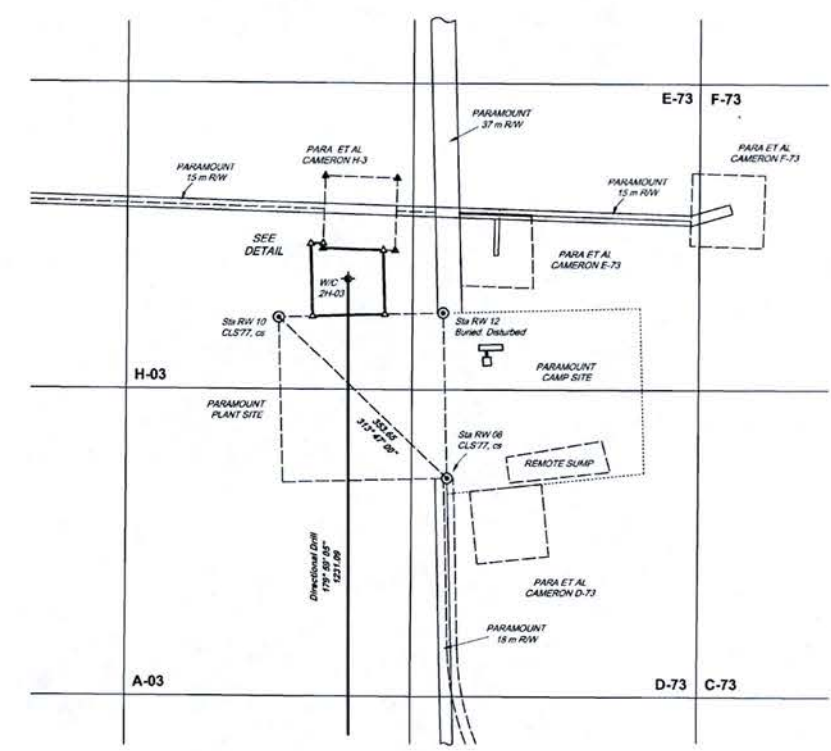
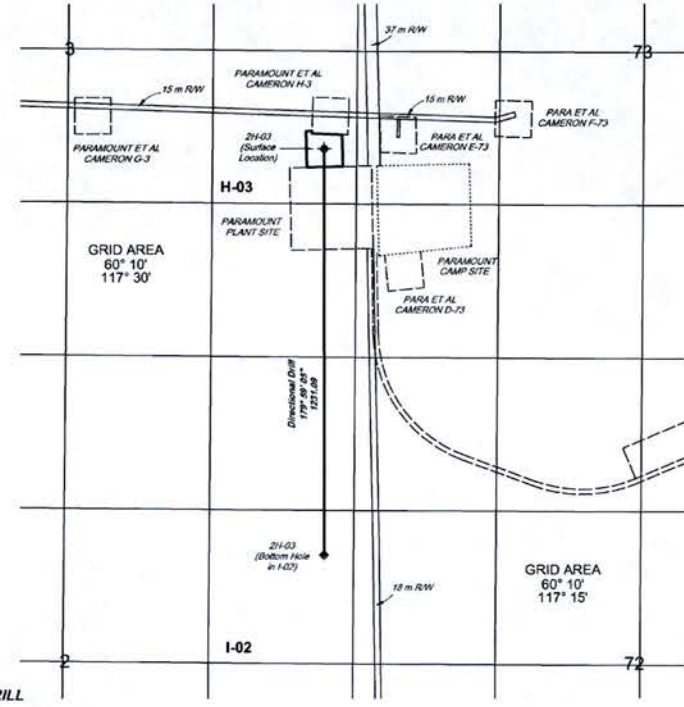
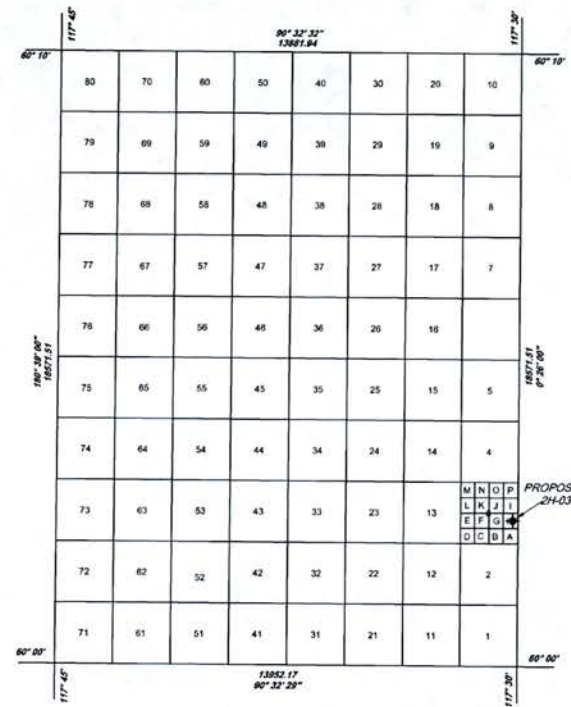




### Job Treatment Charts



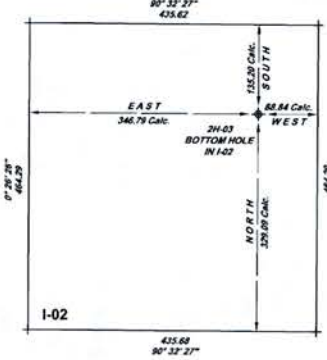
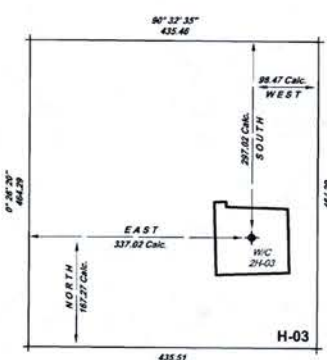




GRID AREA 60° 10', 117° 30'  
SCALE 1:100 000

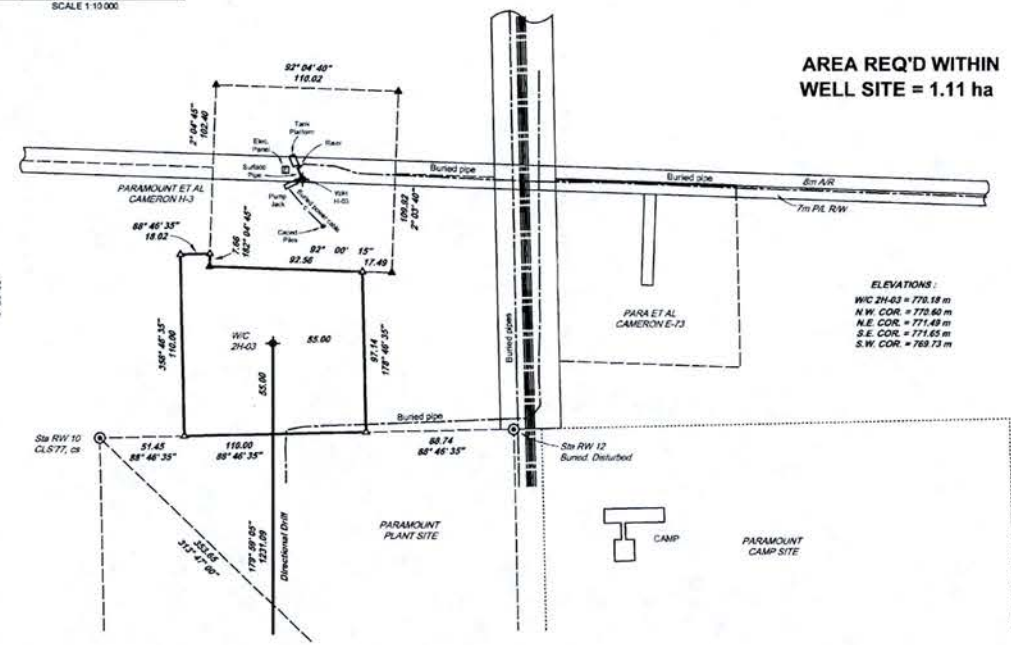
DIRECTIONAL & HORIZONTAL DRILL  
SCALE 1:10 000

WELL SITE NAD'83  
SCALE 1:5000



UNIT H-03 NAD'27  
SCALE 1:5000

UNIT I-02 (BOTTOM HOLE) NAD'27  
SCALE 1:5000



DETAIL NAD'83  
SCALE 1:200

**LEGEND**

- Monument found (Border Monuments) shown thus: ●
- CLS 77 Posts shown thus: ○
- Alberta Secondary Iron Posts shown thus: ○
- Iron Spikes shown thus: ○
- Calculated Position shown thus: ○
- Equilateral WIC Position shown thus: ○
- Distances are in meters and decimals thereof.
- Portions referred to (Well Site and Access Road) bounded thus: ———

UTM coordinates are computed for Zone 11, Central Meridian 117° W.  
Bearings are UTM and were derived from differentially corrected GPS Observations, and are referred to Meridian 117° W.  
Measured distances shown are ground distances, reduced by Combined Scale Factor of 0.999494.  
Distances on grid area subdivisions are UTM plane (NAD27).  
Elevations shown are orthometric elevations, based on elevation of Sta. K-19-1 and thus derived from published elevation of Border Monument # 283.  
All dimensions shown on body of plan are based on NAD 83 (Original) datum.  
Refer to Field Book \_\_\_\_\_ for the survey report pertaining to this project.

Plan and Field Notes  
of Survey of Directional Drill of  
**PROPOSED EXPLORATORY WELL  
PARA ET AL CAMERON 2H-03**  
within UNIT H, SECTION 03  
GRID AREA 60° 10', 117° 30'  
NORTHWEST TERRITORIES  
CANADA OIL AND GAS REGULATIONS  
EXPLORATORY WELL

THIS SURVEY WAS EXECUTED BETWEEN THE  
DATES OF OCTOBER 7TH TO OCTOBER 19TH, 2010  
BY GREG BOGGS, CLS  
CERTIFIED CORRECT AND COMPLETED NOV. 26, 2010.  
*Greg Boggs*  
GREG BOGGS DATE  
CANADA LANDS SURVEYOR



Surveyed for  
**PARAMOUNT RESOURCES LTD.**  
*Brad Scott*

| GEOGRAPHIC AND UTM COORDINATES - NAD '27 |                 |                  |             |            | GEOGRAPHIC AND UTM COORDINATES - NAD '83 (Original) |                 |                  |             |            |           |
|--|-----------------|------------------|-------------|------------|---|-----------------|------------------|-------------|------------|-----------|
| STATION                                  | LATITUDE (N)    | LONGITUDE (W)    | NORTHING    | EASTING    | STATION   | LATITUDE (N)    | LONGITUDE (W)    | NORTHING    | EASTING    | ELEVATION |
| GRID AREA 60° 10', 117° 30'              |                 |                  |             |            |   |                 |                  |             |            |           |
| N.E.                                     | 60° 19' 00.000" | 117° 30' 00.000" | 6669871.563 | 472250.652 | RW 08   | 60° 02' 11.061" | 117° 30' 01.500" | 6655571.133 | 472117.300 | 767.709   |
| N.W.                                     | 60° 19' 00.000" | 117° 45' 00.000" | 6669871.563 | 472250.652 | RW 10   | 60° 02' 18.904" | 117° 30' 18.204" | 6655815.700 | 471962.111 | 769.036   |
| S.W.                                     | 60° 02' 30.000" | 117° 45' 00.000" | 6670002.854 | 458165.739 | WIC 2H-03   | 60° 02' 20.782" | 117° 30' 11.432" | 6655872.944 | 471967.300 | 770.158   |
| S.E.                                     | 60° 02' 30.000" | 117° 30' 00.000" | 6651310.018 | 472110.252 | BOTTOM HOLE I-02                                    | 60° 01' 41.007" | 117° 30' 13.810" | 6654642.488 | 471967.611 |           |
| UNIT H-03                                |                 |                  |             |            |   |                 |                  |             |            |           |
| N.E.                                     | 60° 02' 30.000" | 117° 30' 00.000" | 6655950.400 | 472145.300 |   |                 |                  |             |            |           |
| N.W.                                     | 60° 02' 30.000" | 117° 30' 28.124" | 6655954.520 | 471710.130 |   |                 |                  |             |            |           |
| S.W.                                     | 60° 02' 15.027" | 117° 30' 28.124" | 6655490.488 | 471706.570 |   |                 |                  |             |            |           |
| S.E.                                     | 60° 02' 15.001" | 117° 30' 00.000" | 6655486.388 | 472141.844 |   |                 |                  |             |            |           |
| RW 08                                    | 60° 02' 10.692" | 117° 26' 56.519" | 6655352.856 | 472194.730 |   |                 |                  |             |            |           |
| RW 10                                    | 60° 02' 18.535" | 117° 30' 13.126" | 6655597.233 | 471939.511 |   |                 |                  |             |            |           |
| WIC 2H-03                                | 60° 02' 20.411" | 117° 30' 06.369" | 6655654.471 | 472044.700 |   |                 |                  |             |            |           |
| BOTTOM HOLE I-02                         | 60° 01' 40.639" | 117° 30' 05.739" | 6654424.000 | 472045.000 |   |                 |                  |             |            |           |

FINAL COORDINATES WERE CALCULATED IN NAD'83 AND CONVERTED TO NAD'27 USING NATIONAL TRANSFORMATION VERSION 2 PROGRAM