

**Final Well Report
Paramount Resources Ltd.
Para et al Cameron M-74
WID 2063**

DM# 373894

NATIONAL ENERGY BOARD
Exploration and Production

JUN 28 2010

FINAL WELL REPORT

PARAMOUNT RESOURCES LTD.

PARA ET AL CAMERON M-74

Grid: 60° 10' 117° 15'

WID 2063

UWI 300M746010117150

DATE: May 31, 2010

COMPANY REPRESENTATIVE:

Dick Heenan, P. Eng.

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A. INTRODUCTION

Executive Summary

Paramount Resources Ltd. (Paramount) drilled Para et al Cameron M-74 as 1473 meter vertical well. The well was spudded 201001:17 07:30 and the drilling rig was released on 20100214 08:00. The purpose of the well was to evaluate hydrocarbon potential. The primary target was the Sulphur Point Dolomite formation which was encountered at a depth of 1401 m. The secondary target was the Slave Point formation which was encountered at a depth of 1347 m.

The drilling contractor was Precision's Rig #436.

The well was drilled on Production License No PL-013.

A cellar and conductor were pre-installed, and a diverter system was employed during the drilling of surface hole to 378 mKB. Other than foaming of the surface mud system, there were no significant drilling events on surface hole. A string of 219 mm surface casing was run to 378 mKB. The casing was cemented and there were 7.5 m³ of cement returned to surface. The plug was bumped with 7.5MPa

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 rig was leveled due to settling of the snow fill (this had to be repeated several more times during drilling).

The float collar and shoe were drilled out. No leak off test was performed as per waiver received 20091217 from the Chief Conservation Officer of the National Energy Board. A 200 mm hole was drilled with a flocculated water system. Partial lost circulation was encountered in the Wabamun from 557-724 with 100% lost circulation at 680m. Circulation was regained with LCM and drilling continued to 1089 where total losses were encountered (from upper zones). Two unsuccessful attempts were made to control lost circulation with "Frac Attack" pills, followed by two pairs of cement plugs. The plugs (both cement Frac Attack) cured the lost circulation, but losses returned upon drilling out (presumed due to the Frac Attack preventing the cement bond with the formation). Two additional lost circulation/side track (fast set) cement plugs were set but not drilled out. Due to concerns about cementing the string in the hole with the fast setting cement, a 300m X 73mm EUE fiberglass tubing stinger was used. The directional assembly was finally used to side-track out on the low side of the hole @ 467m and the well was returned to a substantially vertical orientation. Losses also appeared in sidetrack @ 682 – 731 (full to partial). Two final cement plugs were set and drilled out with minor losses 92m³/hr – self healed by 759m). The drillstring became stuck during a connection @ 931, but was worked free within an hour. The well drilled to TD without further incident.

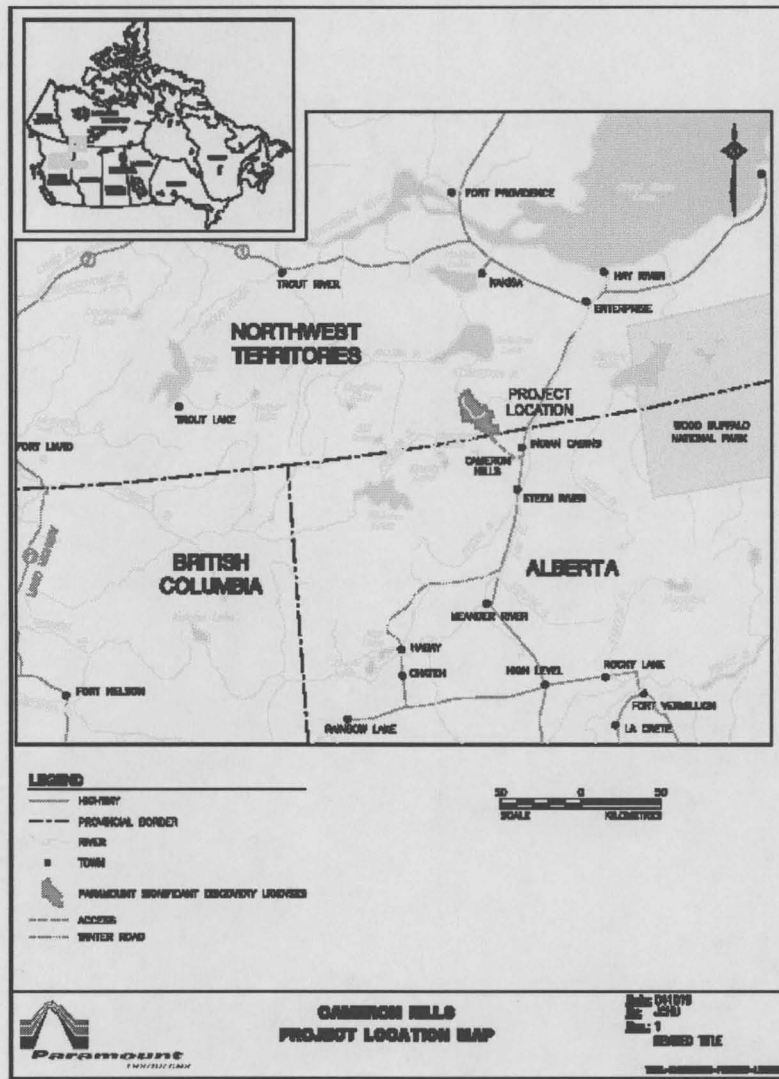
Weatherford Wireline ran induction, density, dipole sonic, and micro-resistivity logs from bottom to surface casing. (35m fill was encountered on wiper trip – loggers tagged 16.5m fill).

Production casing (139.7 mm) was run and set at 1473 mMD. No cement returns were observed.

Completions Summary

The well was perforated in Sulphur Pt Dolomite. The well produced gas (4-5% H₂S). A static gradient indicated that the well was in the gas cap of the Sulphur Point oil pool currently under production. The tubing was removed, and the well suspended with bridge plug and 10 meters of cement. The wellhead was left in place.

Locality Map – Cameron Hills NWT



B. GENERAL DATA

1. Well Name: Para et al Cameron M-74

Well Identification Number (WID): 2063

Production License: PL-013

Location Unit: M

Section: 74

Grid Area: 60⁰ 10' N, 117⁰ 15'

Classification: Delineation
2. Surface Coordinates:
 Latitude: 60⁰ 03' 58.8"
 Longitude: 117⁰ 29' 56.8"
3. Unique Well Identifier: 300M746010117150
4. Operator: Paramount Resources Ltd.
5. Contractor: Precision Drilling
6. Drilling Unit: Precision Rig # 436,
(conventional mechanical double land rig rated for 2200 m)
Mud system capacity of 59 m3.
BOP - 229mm 21MPa Class VI BOP system with NACE trim.
A remote choke manifold with NACE trim was also contracted
for & supplied.
A second mud pump was added to improve surface hole drilling
performance.
7. Position Keeping: N/A
8. Support Craft (Helicopter): N/A
9. Drilling Unit Performance: Fair (crews not familiar with NWT level of
expectation)
10. Difficulties and Delays: Partial total lost circulation was encountered in the
Wabamun from 557-724 with 100% lost circulation at 680m. Circulation was
regained with LCM and drilling continued to 1089 where total losses were
encountered (from upper zones). Two unsuccessful attempts were made to control
lost circulation with "Frac Attack" pills, followed by two pairs of cement plugs.
The plugs cured the lost circulation, but losses returned upon drilling out

(presumed due to the Frac Attack preventing the cement bond with the formation).

The well was finally side-tracked, losses in the corresponding zone were controlled with cement and drilling resumed. In addition, gradually increasing deviation (8 degrees) required the use of a directionally assembly from 1026m to 1089m (where total losses appeared). The directional assembly was finally used to side-track out on the low side of the hole @ 467m and the well was returned to a substantially vertical orientation.

Finally, the drillstring became stuck during a connection @ 931 due to a combination of poor mud properties and mud pump problems. It was worked free within an hour without the use of additional chemical or mechanical aids.

11. Total Well Cost:

Drilling	\$1,800,000
Completion	\$ 250,000

12. Bottom Hole Co-ordinates:

Assumed as vertical well – directional tools were brought out due to excess deviation (+8°). Due to uncontrolled lost circulation, the well was plugged back with cement. A subsequent kick off on the low side brought the well back to vertical. The last directional survey was @ 576, showing a departure of less than 4m from a true vertical well

Latitude: 60° 03' 58.8"
Longitude: 117° 29' 56.8"

C. SUMMARY OF DRILLING OPERATIONS

1. Elevations:
Ground: 777.9 m above sea level
KB: 782.6 m above sea level
KB to Casing Flange: 4.3 m
2. Total Depth: 1473 mMD
3. Date and Hour Spudded: 20100117 07:30
4. Date of Rig Release: 20100214 08:00
5. Well status: Cased and Suspended
6. Hole Sizes and Depths:

Conductor Hole:	610 mm to 12.2 m
(Formations in conductor)	0 – 0.6 mGL – snow
	0.6– 2.4 mGL - muskeg
	2.4 – 12.1 mGL - solid clay & rock – no water
Surface Hole:	311 mm to 378 mKB
Main Hole:	200 mm to 1473 mMD
7. Casing and Cementing Record:

Conductor Hole:	
Casing Size:	406 mm
Depth Set:	12.2 m
Cement Volume:	40 sacks
Cement Type:	Portland
Surface Hole:	
Casing Size:	219.1 mm
Casing Weight:	35.7 kg/m
Casing Grade:	J-55
Thread:	ST&C
Depth Set:	378 mKB
Cement Volume:	33 Tonnes
Cement Type:	Class 'G'
Additives:	1.5% CaCl ₂
Cement Returns:	7.5m ³ to surface
Bumped Plug:	7.5MPa

Lost Circulation & Kick Off plugs – see detail in daily reports.

Main Hole:	
Casing Size:	139 mm
Casing Weight:	20.8 kg/m
Casing Grade:	J-55

Thread:	ST&C
Depth Set:	1473 mMD
Plug Back Depth:	1459 mMD (1456 by service rig)
Cement Volume 1:	28 Tonnes
Cement Type 1:	Thixlite
Additives 1:	0.04% LTR
Cement Volume 2:	9 Tonnes
Cement Type 2:	Expandomix LWL
Additives 2:	0.15% CFL-3 + 0.3% LTR.
Cement Returns:	None
Bumped Plug:	13 MPa
Cement Top:	No cement returns to surface Top by CBL was 400mKB

8. Sidetracked Hole: Yes - @ 467 (kicked off on low side to bring hole back to vertical and to bypass unsuccessful lost circulation plugs)

9. Drilling Fluid: See detailed mud reports in appendix

Conductor Hole: Dry drilled (auger)

Surface Hole: Shure Shale/PHPA

Properties:	Viscosity:	30-50 sec/L
	Weight:	1020 - 1040 kg/m ³
	PH:	8.0 – 11.0

Remarks: Foaming & high natural MBT

Main (378– 951 m): Floc water

Properties:	Viscosity:	28-58 sec/L
	Weight:	1000 - 1050 kg/m ³
	PH:	8.0 - 11.5

Remarks: Drilled blind 559 – 630m, regained circulation then total losses @ 1089
Frac Attack (and subsequent cement plugs) unsuccessful in stopping lost circulation – side tracked, set new plugs, drilled out & regained circulation
Lots of calcium contamination from cement plugs

Main (951 m – TD): Shure Shale/PHPA

Properties:	Viscosity:	30 - 58 sec/L
	Weight:	1010 - 1050 kg/m ³
	PH:	8.0 – 11.5

PV / YP: Not reported
Remarks: Lots of fill on bottom

10. Fishing Operations: None

11. Well Kicks and Well Control Operations: None
12. Formation Leak Off Tests:
No leak off test was performed as per waiver received 20091217 from the Chief Conservation Officer of the National Energy Board.
13. Time Distribution Down by Activity:

IADC Code	Activity	Hours	Percentage
1	Move in / rig up:	76.0	10.6
2	Drill	208.8	27.5
3	Ream	75.8	10.0
4			
5	Circulate and condition mud:	81.0	10.6
6	Trip	166.5	21.9
7	Rig Service	16.5	2.2
8	Repair Rig	6.0	0.8
9	Slip & cut line	2.2	0.3
10	Survey	12.5	1.7
11	Wireline logs	14.0	1.8
12	Casing & Cement	19.5	2.6
13	WOC	9.2	1.2
14	Nipple up	13.5	1.8
15	Test BOP	11.8	1.6
16	Drillstem Test		
17			
18	Squeeze Cement	1.0	0.1
19			
20	Directional Work	6.5	0.9
21	Safety Meeting	14.0	1.9
22	Tear out	5.0	0.7
23	Wait on (other than cement)	1.8	0.2
24			
25	Other	18.5	2.4
14. Deviation Survey:
Vertical Well – see note under bottom hole coordinates
Limited deviation survey performed (in appendix).
Remaining inclination reading on daily reports.
15. Abandonment Plugs: N/A for drilling
Well was cased and cemented full length for completion & testing
16. Composite Well Record: See the copy of the strip log in the Geological Report in

the Attachments Section

17. Wellhead: GE Vetco
Casing Bowl: 228 mm x 219 mm x 21 MPa
Top Section: 179.4mm - 20.7MPa X 65.1mm - 34.5MPa
DD Sour Service trim with ext. neck hanger

18. Completion:

Currently perforated in Sulphur Pt Dolomite and suspended with bridge plug and 10 meters of cement

Completion Operations

- Moved in & rigged up Concord 41 service rig, test equipment & flare stack on 20100223
- Displaced well to fresh water with 3% KCL (used as completion fluid)
- Cement bond log – cement top @ 400mKB.
- Perforated with wireline guns – underbalanced (negligible pressure response)
Sulphur Pt Dolomite 1421.5 – 1425 mKB
- Acid squeeze Sulphur Pt Dolomite with Tri-can mud wash & 15%
- Swab back – 90 10E3M3/D gas & 2.8m3/day fluid – 4-5% H2S
- SI well for flare permit compliance
- Run Static Gradient – BHP 5,464kPa – indicates well is in the gas cap
- Pull 73mm tubing
- Suspend well with bridge plug set @ 1411mKB and topped with 10m cement
- Released completion rig 20100227.

Further details including completions schematic “as built” are located in the appendices

D: GEOLOGY

Formation Tops

FORMATION	SAMPLE TOP		LOGS TOP		
	TMD (m)	TVD (m)	TMD (m)	TVD(m)	SS (m)
WABAMUN				556	226.0
JEAN MARIE				716.5	65.5
FORT SIMPSON				722.5	59.5
TWIN FALLS	834.0	832.6		833.5	-51.5
HAY RIVER	998.0	995.6		993.0	-211.0
BEAVERHILL LAKE		1324.0		1324.5	-542.5
SLAVE POINT		1348.5		1347.0	-565.0
F 4		1389.5		1388	-606.0
WATT MOUNTAIN		1396.0		1395.5	-613.5
SULPHUR POINT LST		1405.5		1401.5	-619.5
SULPHUR PT DOL.		1413.0		1412.0	-630.0
MUSKEG		1429.5		1427.5	-645.5
TD DRILLER		1473.0			-691.0

(From Geological Report – full version in the Attachments Section)

Sample Descriptions: See the Geological Report in the Attachments Section.

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 Attachments Section.

DRILL STEM TESTS:

No Drillstem tests were run

WELL EVALUATION

The following logs were run:

Simultaneous Triple Induction Shallow Focused Log:	377 - 1448 mMD
Spectral Density Compensated Neutron Log:	0 - 1458 mMD
Dipole Sonic Log:	377 - 1436 mMD
Micro-Resistivity Log:	1300 - 1448 mMD

COMPLETION AND TESTING DATA

The following are found in the appendices
(to the extent that they were obtained/performed on this well)
Bottom hole Pressure data
Swab reports
Stimulation reports

E. ENVIRONMENTAL CONSIDERATIONS

There are no known outstanding environmental considerations on this well.

WEATHER SUMMARY

Typical winter weather for Northern Alberta & the southern NWT was encountered during the drilling & completion of this well. After an unseasonably warm November, cold weather and snow facilitated construction of winter snow roads in December. During drilling, temperatures ranged from -10C to -36C with a mean of about -20C. Conditions were generally clear and calm with one day of fog and two of severe blowing snow (including the -32 day).

ENVIRONMENTAL PROTECTION

Fuel tanks were all double walled.

Minor “drips & spills” were cleaned up and recorded on the “Spill Log”.

There were no spills exceeding the reporting threshold to the NWT Spill Line.

Significant challenges (minor spills) were encountered due to differences in expectation between crews trained and experienced with practices in Alberta, and Paramount’s much higher expectations in the NWT. This is a difficult challenge due to the short operating season due to the requirements for “winter only” operations in the NWT, and the transient nature of the upstream petroleum workforce.

WASTE HANDLING

The well was drilled sumpless with all drilling fluids being held in tanks on the lease. At the end of the job the water was stripped from the mud system and hauled to the subsequent wells for re-use.

The solids were hauled to a remote site at B-08 60° 10' N, 117° 30' W where they were disposed of in cell ‘A’ using the mix/bury/cover technique. Due to the nature of the formations drilled, it was essentially impossible to avoid carry-over of liquids with the solids taken to the sump. Solids that appeared relatively “dry” when hauled to the sump subsequently separated, leaving a small quantity of liquid on the surface. An attempt was made to use a “high G dryer” to reduce this effect, but it was not very successful. To prevent the freezing and subsequent incorporation of liquids into the sump (a violation of the Land Use Permit), a “bell hole” was dug in the sump material and the excess fluid sucked off with a vacuum truck and returned to the active drilling fluid system.

Liquid waste generated during the completions operations (spent KCL and produced water) was hauled to a deep well disposal site in Alberta for injection.

Sewage generated on site was trucked to the central camp @ H-03 where it was treated stored and tested prior to discharge. Treated effluent, passing discharge criteria, was discharged to the land, avoiding water course and water bodies. Material that did not pass was either re-processed until satisfactory or hauled to an approved municipal sewage facility in Hay River.

Solid waste was segregated, stored in covered bins, hauled to Ft Nelson by a waste handling and recycling company.

SPILLS

While there were no reportable spills on the drilling location during this operation there was a 0.5 liter grey water spill at the H-03 camp location (Report # 10.023) during this time. A hose ruptured and the grey water leaked out. This material was treated sewage and was waiting testing for approval for discharge to the land. Unfortunately when the test results were received, they did not meet the criteria and thus this was a reportable spill. It should be noted that this procedure (treat, hold and test prior to discharge) was voluntarily instituted by Paramount's drilling department. Similar operations have direct discharge of treated, but untested grey water approved for direct discharge. If this procedure had been followed, instead of the more stringent one, there would, by definition, have been no spill.

APPENDICES

1. Wellbore Schematic
2. Wellhead Schematic
3. Geological report & geological composite log (strip log)
4. Survey plan.
5. Rathole Report
6. Paramount Daily Reports (drilling)
7. Tour Sheets (drilling)
8. Drilling Fluid Reports
Cement plug Reports
9. Paramount Daily Reports (completion)
10. Tour Sheets (completion)
11. Swab Reports
12. Pressure Surveys
13. Acid Treatment Reports
14. Directional Reports

The diagram illustrates a vertical experimental setup. At the top, a piston is shown within a horizontal cylinder. Below this, a long vertical tube contains a shaded region representing a material sample. At the bottom of the tube, there is a shaded region labeled 'P.B.T.D.' and 'T.D.', which likely represents a base or a specific measurement point. Arrows on the sides of the tube indicate pressure or force being applied.

WELL NAME: Para et al Cameron M - 74 WID : 2063

Prepared by:	Kim Muel and	Date Start:	Feb 23, 2010
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Elevations :

KB [m]	762.60	KB to CF [m]	4.60	TD [m]	1473.00
GL [m]	778.00	PBTD [m]	1455.00		
Tubulars	Size [mm]	Wt - Kg/m	Grade	Landing Depth [m]	
Surface Casing	219.10	35.70	J - 55 , ST&C	377m	
Product. Casing	139.70	20.80	J - 55 , ST&C	1473.00	

Wellhead Description:

Make / Type:	BARBER	Vetco Gray
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Size / Rating :	279mm X	21,000 kPa	179mm X	21,000 kPa
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Tubing String:	73mm , J - 56 , 9.67 Kg / m , yellow band	(m)	(m)
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Date of Tubing Description:	Feb 27 - 2010	Length	Top @
-----------------------------	---------------	--------	-------

No.Jts.	Description	K.B.—Tbg. Fig.	4.05	KB Depth
			0	0.00
			0	0.00
			0.00	0.00
			0	0.00
			0	0.00
			0	0.00
			0	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
			0.00	0.00
				0.00
	Bottom of Tubing mKB		0.00	

1						
2						
3						
4						
5						
6						

Zone	Sulphur Point Dolomite	Interval :	1421.5m - 1425mKB
Zone		Interval :	
Zone		Interval :	

Acid Squeeze

**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**10-16881**

Rev

0

Date: March 1, 2010
Sold To: **Paramount Res.**
Attention: Mr. Dick Heenan
Reference: Cameron Hills
Currency: CAD
Payment Terms: Net 30 days
Delivery: Stock as Required
x F.O.B. Point: Edmonton
F.C.A. Point
Quotation Validity: 45 days
Account Representative: Al Stratulate

Quotation 10-16881 Rev 0

Item	Qty	Part No	Description	Unit Price	Total
			EQUIPMENT QUOTED HEREIN ARE BASED ON:		
			MATERIAL CLASS: DD-NL TEMPERATURE RATING: L-U PSL 1, PR 1 UNLESS OTHERWISE NOTED		
1	1		CASING HEAD ASSEMBLY, VG-SOW, 9 3000 (228.6mm20.7MPa) 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	1762.50	1762.50
2	1		CASING SLIP ASSEMBLY, VGS, 9 (228.6mm) X 5-1/2 (139.7mm), MANUAL SLIP, API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	413.10	413.10
3	2		PRIMARY SEAL ASSEMBLY, VGS, 9 (228.6mm) X 5-1/2 (139.7mm), API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL1	255.15	510.30
4	1		GATE VALVE ASSY, VGC, 2-1/16 5000 (52mm 34.5MPa) FLANGED, FULL PORT. API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD	2,020.75	2020.75
5	2		COMPANION FLANGE, 2-1/16 5000 (52mm 34.5MPa) X 2 (50mm) LP API 6A 19TH ED PSL-1, PR-1, TC L-U, MC DD	107.73	215.46
6	1		BULL PLUG XXH 2 (50mm) LP X 1/2 (12.7mm) NPT TAPPED	26.73	26.73
7	1		NEEDLE VALVE 1/2 (12.7mm) NPT MXF STRAIGHT 316 S.S. 10000 WP	109.35	109.35

Quotation 10-16881 Rev 0					
Item	Qty	Part No	Description	Unit Price	Total
8	1		PRESSURE GAUGE 0 - 3000 (20.7MPa) CW 4 (101.6mm) DIAL 1/2 (12.7mm) NPT BTM NACE	75.33	75.33
9	1		RING GASKET R-49 316 S.S.	116.64	116.64
10	3		RING GASKET R-24 316 S.S.	39.69	119.07
11	1		STUD/NUT L7/2H 7/8 (22.2mm) X 6 (152.4mm) LONG SET OF 8	34.86	34.86
EQUIPMENT TOTAL					\$5,404.09

Additional information: Contact **Corey Canniff @ 403-264-4146**

Authorized By: _____

For Vetco Gray

****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.

Quotation 10-16881 Rev:0

<u>Item</u>	<u>Qty</u>	<u>Part No</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
-------------	------------	----------------	--------------------	-------------------	--------------

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.

VETCO 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 is 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 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, direct 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 uncontrolled 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

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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 installation. The Purchaser acknowledges that any such information, service or technical advice, 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, but specified or designed and/or manufactured by others, VGC shall endeavor, for protection of Purchaser, to obtain the most advantageous patent guarantee, which shall run directly to Purchaser, with VGC's liability limited to rendering to Purchaser reasonable assistance in enforcing such guarantees. Further, VGC shall not be liable for the use or sale of any material, equipment or apparatus specially made, in whole or in part, to the Purchaser's design specifications and, in such instances, all patent liabilities shall be borne by the Purchaser. If an injunction is issued enjoining use of products designed by VGC, VGC, at its own expense, shall either procure for Purchaser the right to continue to use such products, design and specify non-infringing products, or design and specify modifications so that the product becomes non-infringing, as VGC's sole and limit

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

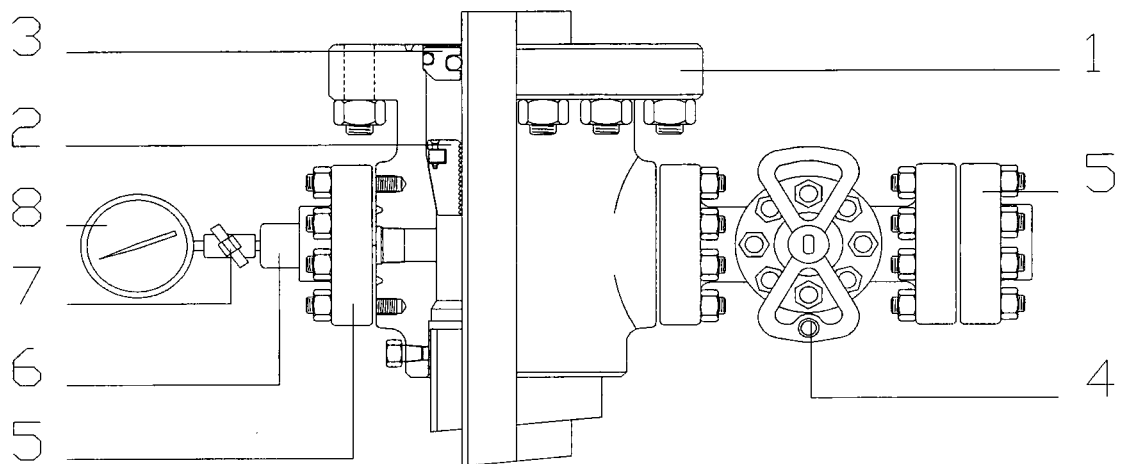
If the Purchaser or VGC is prevented, directly or indirectly, from carrying out the provisions of this Agreement by reason of any act of God, war, revolution, blockade, strike, riot, earthquake, cyclone or flood, or delay by carrier, fuel shortage, embargo, walkout or other labor disturbance, actual 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.



**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**10-16880**

Rev

0

Date: February 26, 2010

Sold To: **Paramount Resources**

Attention: Mr. Dick Heenan

Reference: Cameron Hills

Currency: CAD

Payment Terms: Net 30 days

Delivery: Stock as Required

x F.O.B. Point: Edmonton

F.C.A. Point

Quotation Validity: 45 days

Account Representative: Al Stratulate

Quotation 10-16880 Rev 0

<u>Item</u>	<u>Qty</u>	<u>Part No</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
			EQUIPMENT QUOTED HEREIN ARE BASED ON:		
			MATERIAL CLASS: DD-NL TEMPERATURE RATING: LY PSL 1, PR 1 UNLESS OTHERWISE NOTED		
1	1		TUBING HEAD ASSEMBLY, VGOFF-GRF, 9 3000 (228.6mm20.7MPa) X 7-1/16 3000 (179.4mm20.7MPa), C/W (2) 2-1/16 5000 (52.4mm34.5MPa) SSO W/ 1.900 (48.3mm) VRT, API 6A 19TH ED., TC L-U, MC AA, PR-1, PSL-1	2280.15	2280.15
2	1		SECONDARY SEAL ASSEMBLY, GRF, 9 (228.6mm) X 5-1/2 (139.7mm), API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	244.62	244.62
3	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, API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	761.40	761.40
4	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, API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	1312.20	1312.20
5	2		GATE VALVE ASSY, VGC, 2-9/16 5000 (65.1mm 34.5MPa) FLANGED, FULL PORT. API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD	2,689.28	5378.56
6	1		STUDDERED TEE, 2-9/16 5000 (65.1mm34.5MPa) RISE X 2- 1/16 5000 (52.4mm34.5MPa) RUN, API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	1211.76	1211.76

Quotation 10-16880 Rev 0					
Item	Qty	Part No	Description	Unit Price	Total
7	1		B.H.T.A., 2-9/16 5000 (65.1mm34.5MPa), C/W TOP CAP ASSEMBLY W/ 1/2" NPT TAP, API 6A 19TH ED., TC L-U, MC DD, PR-1, PSL-1	822.15	822.15
8	3		GATE VALVE ASSY, VGC, 2-1/16 5000 (52mm 34.5MPa) FLANGED, FULL PORT. API 6A 19TH ED PSL-1, PR-1 TC L-U, MC DD	2020.75	6062.25
9	3		COMPANION FLANGE, 2-1/16 5000 (52mm 34.5MPa) X 2 (50mm) LP API 6A 19TH ED PSL-1, PR-1, TC L-U, MC DD	107.73	323.19
10	3		BULL PLUG XXH 2 (50mm) LP X 1/2 (12.7mm) NPT TAPPED	26.73	80.19
11	4		FORGED STEEL PIPE PLUG 1/2 (12.7mm) NPT	4.46	17.84
12	2		NEEDLE VALVE 1/2 (12.7mm) NPT MXF STRAIGHT 316 S.S. 10000 WP	109.35	218.70
13	2		PRESSURE GAUGE 0 - 3000 (20.7MPa) CW 4 (101.6mm) DIAL 1/2 (12.7mm) NPT BTM NACE	75.33	150.66
14	1		RING GASKET R-49 316 S.S.	116.64	116.64
15	1		RING GASKET R-45 316 S.S.	84.24	84.24
16	4		RING GASKET R-27 316 S.S.	48.60	194.40
17	6		RING GASKET R-24 316 S.S.	39.69	238.14
18	1		STUD/NUT L7 2H 1-3/8 (38.1mm) X 9-1/2 (241.3mm) LONG SET OF 12	196.83	196.83
19	1		STUD/NUT L7 2H 1-1/8 (28.6mm) X 8 (203.2mm) LONG SET OF 12	107.73	107.73
20	1		STUD/NUT L7 2H 1 (25.4mm) X 7 (177.8mm) LONG SET OF 8	53.64	53.64
21	5		STUD/NUT L7 2H 7/8 (22.2mm) X 6 (152.4mm) LONG SET OF 8	34.86	174.30
22	1		CASING VENT ASSEMBLY, 2 (50.8mm) X 2000 (13.8MPa)	192.78	192.78
23	5		LABOUR CHARGE/HR TO ASSEMBLE TEST AND PAINT	60.00	300.00
EQUIPMENT TOTAL					\$20,522.37

Additional information: Contact Corey Canniff @ 403-264-4146

Authorized By:

For Vetco Gray

Quotation 10-16880 Rev 0					
Item	Qty	Part No	Description	Unit Price	Total

****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 bolings 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.

**VETCO 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 of 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 is 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 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.

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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

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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, but specified or designed and/or manufactured by others, VGC shall endeavor, for protection of Purchaser, to obtain the most advantageous patent guarantee, which shall run directly to Purchaser, with VGC's liability limited to rendering to Purchaser reasonable assistance in enforcing such guarantees. Further, VGC shall not be liable for the use or sale of any material, equipment or apparatus specially made, in whole or in part, to the Purchaser's design specifications and, in such instances, all patent liabilities shall be borne by the Purchaser. If an injunction is issued enjoining use of products designed by VGC, VGC, at its own expense, shall either procure for Purchaser the right to continue to use such products, design and specify non-infringing products, or design and specify modifications so that the product becomes non-infringing, as VGC's sole and limit

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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.

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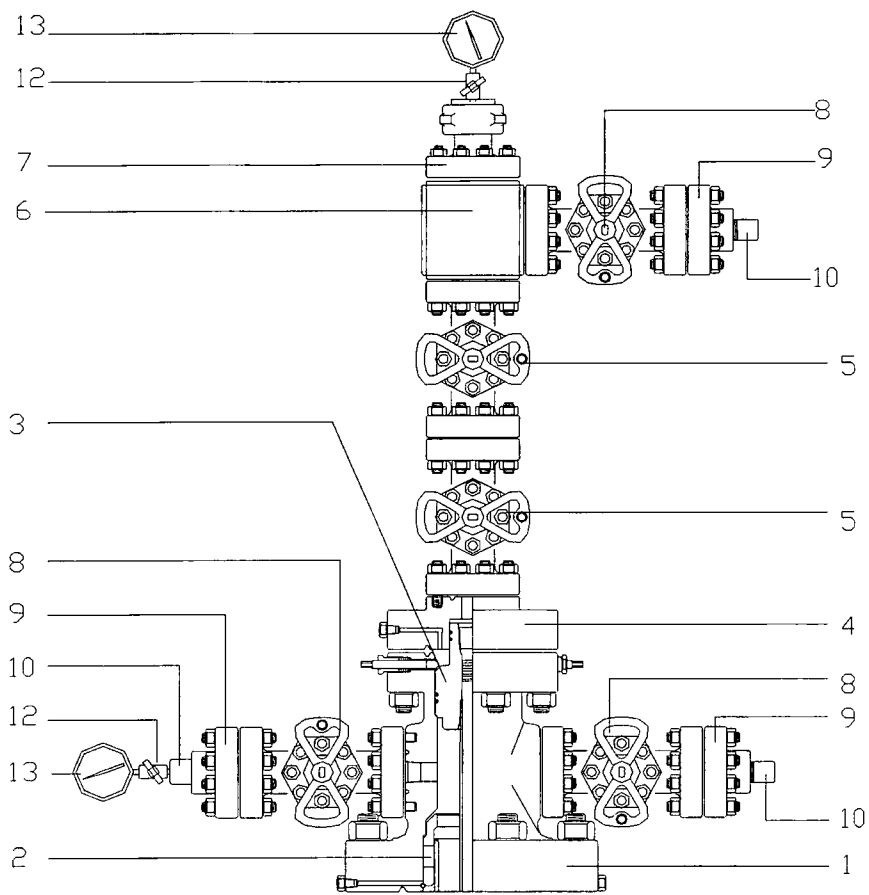
If the Purchaser or VGC is prevented, directly or indirectly, from carrying out the provisions of this Agreement by reason of any act of God, war, revolution, blockade, strike, riot, earthquake, cyclone or flood, or delay by carrier, fuel shortage, embargo, workout or other labor disturbance, actual 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.



Geological Report

Of

PARA ET AL CAMERON M-74
Unit M Section 74 Grid 60' 10" 117' 15"

For



PARAMOUNT RSOURCES LTD.

February 2010

Report For: **LLEW WILLIAMS/JASON GALBRAITH**
Paramount Resources Ltd.
Calgary, AB.

Reported By: **MASHHOOD CHAUDHRY**
Moh & Associates Oilfield
Consultants Ltd.
Calgary, AB.

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WELL ABSTRACT

The well Para et al Cameron M-74 is located in Unit M Section 74 Grid: 60° 10' N 117° 15' W and

has surface coordinates of Lat: 60° 03' 58.8'' N & Long: 117° 29' 56.8'' W in NWT Mainland. The Field it is in is Cameron Hills and Pool is Sulphur point. It is a development well.

Drilling contractor engaged to drill this well was Precision Drilling Rig # 436.

The well was spudded on January 17, 2010 @ 0730 hrs. Surface hole of 311mm size was drilled to 378m and 219.1mm surface casing run to 377m.

During drilling of 200mm main hole lost circulation was encountered to variable extents from 557-724 with 100% lost circulation around 670 & 680m depth. Continued drilling to 1089m while trying to control lost circulation problem. Used directional services of Departure Energy Services Inc. from 1026m to 1089m to correct high deviation of 8°.

At 1089m pills of Frack Attack product were spotted and reamed twice between 731 to 500m depth to prevent lost circulation. But it did not work. Then Cement plugs were run and drilled twice over the same lost circulation interval. It did not stop lost circulation either.

The well then was plugged back with cement from 731-535m and side tracked from KOP of 467m. It was drilled to a total depth of 1473m and logs run. A second run of logs was run after clean out trip due to 23meters fill on bottom. Production casing of 139.7mm was run.

FORMATION EVALUATION

Primary target in this well was Sulphur Point Dolomite for the production of oil and secondarily evaluate Slave Point for possible gas production. Samples were also collected and examined from Twin Falls formation for any hydrocarbons present.

Twin Falls in this well is primarily Limestone with interbeds of Shales.

Limestone is buff, grey, micritic, trace-minor very fine-grained, dense, part argillaceous, with up to a maximum of 3-6% intergranular and pin point porosity. It does not have any visible hydrocarbon shows in samples.

SLAVE POINT FORMATION

Middle or Upper Devonian

397.5-385.3 Million Years

Slave point in this well was picked in samples at 1348.5m. Electrical logs indicate its top at 1347m (-565m). Slave Point is a 41m thick limestone. It is brown to buff, mudstone-wackestone, micritic, lumpy, dense, cryptocrystalline-very fine crystalline. It is slightly argillaceous and bituminous and contains pyrite nodules at places. Slave point becomes slightly dolomitic and anhydritic towards lower part. Slave point is mostly tight with 0-3% porosity. It has 6-9% intercrystalline, pin point and earthy porosity from 1371-1375m. Slave point has hydrocarbon shows and gives milky white good-fair streaming cut with petriferous odour. A formation gas show of 275 units against a background of 70 units was registered by gas detector in above mentioned 6-9% porosity zone. Induction log shows 35-60 ohms deep induction in this interval. The Slave Point formation in this well does not seem to have commercially produceable hydrocarbons.



Slave Point Limestone in M-74

SULPHUR POINT FORMATION

Middle Devonian

397.5 Million Years

Sulphur Point Limestone is 9.5m thick from 1401.4-1427.5m. It is brown-buff, mudstone-wackestone, micritic, cryptocrystalline-very fine crystalline, argillaceous and slightly dolomitic. It also has some hydrocarbon shows. It is tight but has 9% porosity from 1407-1408m. It shows 35-50 ohms deep & medium induction over this interval. It had 260 units of gas show against a background of 50 units.

Sulphur Point Limestone does not seem to be very promising in this well.



Ls in the Sulphur Point Fm. 1410m RKB.
2/11/2010 12:14:22 PM

Sulphur Point Limestone in M-74.

Sulphur Point Dolomite is 15.5m thick from 1412.0 – 1427.5m. It is brown-dark brown, grainstone, very fine-fine crystalline, with common free dolomite crystals and minor bitumin partings. It has vuggy, pin point and intercrystalline porosity streaks in the range of 5-20% from 1414-1424m. Sulphur point dolomite has scattered bright yellow fluorescence and good yellow white fast streaming cut. On induction log it shows 15-40 ohms deep induction in porous intervals. Over 400 units of gas shows over a back ground of 50 units were recorded by gas detector. Sulphur Point Dolomite has a good potential of commercial oil production.



Sulphur Pt. Dolomite vuggy porosity in M-74

SUMMARY OF WELL DATA

OPERATOR	Paramount Resources Ltd.
WELL NAME	Para et al Cameron M-74
LOCATION	Unit M Section 74 Grid: 60° 10' N 117° 15' W
COORDINATES (SURFACE)	Lat: 60° 03' 58.8'' N Long: 117° 29' 56.8'' W
COORDINATES (BOTTOM HOLE)	Same as surface.
UWI	300M746010117150
FIELD / POOL	Cameron Hills / Sulphur Pt. "D"
PROVINCE/REGION	NWT Mainland
WELL LICENCE NUMBER	1221
WELL TYPE	Development
A.F.E. NUMBER	09N010005
GROUND ELEVATION	777.93m
K.B. ELEVATION	782.13m
DRILLING CONTRACTOR	Precision Drilling Rig # 436
SPUD DATE	January 17, 2010 @ 0730 Hrs.
COMPLETED DRILLING	February 10, 2010 @ 2200 Hrs.
TOTAL DEPTH DRILLER	1473m.
TOTAL DEPTH LOGGERS	1459m
SURFACE HOLE SIZE	311mm From 00.00 – 378m.

MAIN HOLE SIZE 200 mm From 378 - 1473m

SAMPLES Paramount: 790m-1050m
NEB: 1300m – TD.

PROBLEMS Lost Circulation in Wabamun Formation
557m to 724m. Drilled blind 576-731m.
Ran and drilled cement plugs to control lost
circulation. Hole is side tracked from
467m.

CASING RECORD

Size OD (mm)	Weight Kg/m	Make	Type	Grade	Shoe at (m)	Cement used	No Of Joints	Remarks
219.1	35.7	LKSIDE	ST&C	J-55	377	33m3	28	New
139.7	20.8	Alberta Tubulars	ST&C	J-55	1473	Lead 26T + Tail 0 9 T	117	New

LOG RECORD

Company	Log Type	Interval (m)
Weatherford	1. Spectral Pe Density, Compensated Neutron, Gamma Ray	1458.4 - 0.0
	2. Simultaneous Triple Induction SFL Log	1448.4 – 376.8
	3. Monopole-Dipole Acoustic Log	1436.1 – 376.8
	4. Micro-Resistivity Log	1447.8 - 1300

STATUS: POTENTIAL SULPHUR POINT DOLOMITE OIL WELL.

SUMMARY OF GEOLOGICAL MARKERS, TESTS & CORES

GEOLOGICAL MARKERS
K.B: 782.13m

FORMATION MARKER	SAMPLE TOP		LOGS TOP		
	TMD (m)	TVD (m)	TMD (m)	TVD(m)	Subsea (m)
WABAMUN				556	226.0
JEAN MARIE				716.5	65.5
FORT SIMPSON				722.5	59.5
TWIN FALLS	834.0	832.6		833.5	-51.5
HAY RIVER	998.0	995.6		993.0	-211.0
BEAVERHILL LAKE		1324.0		1324.5	-542.5
SLAVE POINT		1348.5		1347.0	-565.0
F 4		1389.5		1388	-606.0
WATT MOUNTAIN		1396.0		1395.5	-613.5
SULPHUR POINT LST		1405.5		1401.5	-619.5
SULPHUR POINT DOL.		1413.0		1412.0	-630.0
MUSKEG		1429.5		1427.5	-645.5
TOTAL DEPTH DRILLER		1473.0			-691.0
TOTAL DEPTH LOGGERS				1459.0	-677.0

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

DEVIATION SURVEYS

NOTE: Well was plugged and side tracked from 467m. See next page for Side track surveys.

DEPTH (m)	INCL. DEGREES	DEPTH (m)	INCL. DEGREES	DEPTH (m)	INCL. DEGREES	INSTRUMENT REMARKS
11	0.5	963	8.0			Teledrift
19	0.5	991	8.0			
30	0.5					
56	0.5					
91	0.5					
122	0.25					
147	1.0					
174	1.0					
203	0.5					
231	0.5					
260	2.0					
298	2.0					
327	1.5					
346	2.0					
388	1.5					
435	2.0					
482	3.0					
628	3.0					
703	3.5					
806	3.0					
900	3.0					
943	8.0					

SIDE TRACK DEVIATION SURVEYS

NOTE: Also see side track directional surveys from 467-576m.

[illegible]

DIRECTIONAL SURVEYS
 (From 1026-1089m)
DEPARTURE ENERGY SERVICES INC.
WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth Meters	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S Meters	E-W Meters	Dogleg Severity Deg/30	CLOSURE Distance Meters	CLOSURE Direction Deg
11.00	.50	34.10	11.00	.04	.03	1.36	.05	34.10
91.00	.50	34.10	91.00	.62	.42	.00	.75	34.10
122.00	.25	34.10	122.00	.79	.53	.24	.95	34.10
147.00	1.00	34.10	146.99	1.01	.68	.90	1.22	34.10
175.00	1.00	34.10	174.99	1.42	.96	.00	1.71	34.10
203.00	.50	34.10	202.99	1.72	1.16	.54	2.08	34.10
231.00	.50	34.10	230.99	1.92	1.30	.00	2.32	34.10
260.00	2.00	34.10	259.98	2.45	1.66	1.55	2.95	34.10
298.00	2.00	34.10	297.96	3.54	2.40	.00	4.28	34.10
327.00	1.50	34.10	326.94	4.28	2.90	.52	5.17	34.10
346.00	2.00	34.10	345.93	4.76	3.22	.79	5.75	34.10
389.60	1.60	34.10	389.51	5.89	3.99	.28	7.12	34.10
503.77	2.80	40.40	503.60	9.34	6.69	.32	11.49	35.63
618.09	3.50	41.80	617.74	14.06	10.83	.18	17.75	37.59
732.17	6.30	39.40	731.39	21.50	17.12	.74	27.48	38.53
846.11	6.00	41.10	844.68	30.82	25.00	.09	39.68	39.06
987.37	7.60	40.80	984.94	43.45	35.96	.34	56.40	39.61
1009.00	6.50	41.10	1006.41	45.46	37.70	1.53	59.06	39.67
1026.41	5.50	41.80	1023.72	46.82	38.91	1.73	60.88	39.72
1035.93	4.20	43.30	1033.21	47.42	39.45	4.12	61.68	39.76
1045.41	2.60	48.90	1042.67	47.81	39.85	5.17	62.24	39.81
1054.90	1.90	65.80	1052.15	48.02	40.15	3.03	62.59	39.91
1064.39	1.80	79.50	1061.64	48.11	40.44	1.43	62.85	40.05

SIDE TRACK DIRECTIONAL SURVEYS**DEPARTURE ENERGY SERVICES INC.****WINSERVE SURVEY CALCULATIONS**

Minimum Curvature Method

Vertical Section Plane .00

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

Measured Depth Meters	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S Meters	E-W Meters	Dogleg Severity Deg/30	CLOSURE Distance Meters	CLOSURE Direction Deg
11.00	.50	34.10	11.00	.04	.03	1.36	.05	34.10
91.00	.50	34.10	91.00	.62	.42	.00	.75	34.10
122.00	.25	34.10	122.00	.79	.53	.24	.95	34.10
147.00	1.00	34.10	146.99	1.01	.68	.90	1.22	34.10
175.00	1.00	34.10	174.99	1.42	.96	.00	1.71	34.10
203.00	.50	34.10	202.99	1.72	1.16	.54	2.08	34.10
231.00	.50	34.10	230.99	1.92	1.30	.00	2.32	34.10
260.00	2.00	34.10	259.98	2.45	1.66	1.55	2.95	34.10
298.00	2.00	34.10	297.96	3.54	2.40	.00	4.28	34.10
327.00	1.50	34.10	326.94	4.28	2.90	.52	5.17	34.10
346.00	2.00	34.10	345.93	4.76	3.22	.79	5.75	34.10
389.60	1.60	34.10	389.51	5.89	3.99	.28	7.12	34.10
446.72	2.30	33.80	446.60	7.50	5.07	.37	9.06	34.06
456.24	2.50	34.50	456.11	7.83	5.30	.64	9.46	34.07
465.75	1.80	40.40	465.61	8.12	5.51	2.31	9.81	34.17
475.10	1.10	270.00	474.96	8.23	5.52	8.50	9.91	33.83
484.63	2.30	245.40	484.49	8.15	5.25	4.34	9.70	32.79
494.16	3.00	216.60	494.01	7.87	4.93	4.66	9.29	32.06
503.68	3.30	215.50	503.51	7.45	4.62	.96	8.77	31.82
513.17	3.50	212.70	512.99	6.98	4.31	.82	8.20	31.67
522.65	3.70	213.40	522.45	6.48	3.98	.65	7.61	31.56
532.16	3.70	214.80	531.94	5.98	3.64	.28	7.00	31.33
541.64	4.60	222.90	541.39	5.45	3.20	3.39	6.32	30.48
551.13	4.80	223.30	550.85	4.88	2.67	.64	5.56	28.72
560.64	4.80	223.30	560.33	4.30	2.13	.00	4.80	26.33
576.00	3.80	220.00	575.64	3.44	1.36	2.01	3.70	21.56
Extrapolation								
576.00	3.80	220.00	575.64	3.44	1.36	2.01	3.70	21.56

DAILY DRILLING SUMMARY

DATE	DEPTH (m)	OPERATIONS SUMMARY
Jan. 17, 2010.	135	Left Calgary. Stayed in High Level. Well Spudded @ 0730 HRS. Drilled 311mm surface hole from 00.00 – 135m.
Jan. 18, 2010.	339	Left High Level. Arrived on location. Drilled 311mm surface hole from 135 – 339m.
Jan. 19, 2010.	378	Drilled 311mm surface hole from 367-378m. Circulate & Condition mud. Ran surface casing. Circulate and wait on cementers. Safety meeting with cementers.
Jan. 20, 2010.	378	Rig up Gas detector. Cement surface casing. WOC. Cut Casing and weld on Casing bowl. Nipple up BOP, S. Install new lines to manifold, manifold to flare tank and manifold to mud tanks. Levelled rig. Pick up Kelly and install upper Kelly cock. Started pressure testing.
Jan. 21, 2010.	532	Gas detection. Complete Pressure testing, RIH. Drill cement, float & shoe. Drilled 200mm main hole from 378-532m
Jan. 22, 2010.	926	Geological supervision and gas detection. Drilled 200mm main hole from 532-926m. Encountered fluid losses @ 557m Sporadic, 650m 25%, 660m 50%, 670m 100%, 680m 100%, 688m 25% started healing/ coming back, 700m 50-75% and @ 724m no to nominal loses.
Jan. 23, 2010.	1026	Geological supervision and gas detection. Drilled 200mm main hole from 926-1026m. Deviation 8 degrees at 943m. Reduced WOB to zero to control deviation. Kept drilling @ rop of 5m/hour while waiting for directional tools to correct the deviation. Started circulating and condition hole to POOH for directional tools.
Jan. 24, 2010.	1027	Circulate and condition hole while waiting for directional tools at 1026m depth. Started POOH. Lost circulation at 600m while coming out. Controlled lost circulation and POOH. Make up directional tools and ran in the hole while taking directional surveys. Directionally drilled 200mm hole 1026-1027m. Lost circulation at 1027. Conditioned mud and controlled lost

		circulation.
Jan. 25, 2010.	1089	Drilled directionally 200mm main hole from 1027-1089m. Lost circulation. Circulate & pumped lost circulation material to control lost circulation. POOH. Laid down directional tools. Run back in to 702m. Mix Frac Attack & Barite pill. Started pumping Frac attack pills from about 700m upward.
Jan. 26, 2010.	1089	Pumped Frac attack pills from 700m upward to about 500m. POOH. RIH with directional tools. Reamed Frack attack from 490m to 623. Lost circulation at this depth. Started POOH to pump another Frack Attack pill in this zone.
Jan. 27, 2010.	1089	Completed POOH. Laid down directional tools. RIH. Hit bridge @ 477m. Reamed and circulated bottoms up to 600. Pumped frac attack @ 538. Circulate. Applied 1300kpa pressure on frac attack. POOH to 189m. RIH. Started reaming and washing the hole from 550m. Lost circulation @ 630m. Started POOH to make new BHA. Worked tight hole 630-539m while coming out.
Jan. 28, 2010.	1089	POOH. Made up different BHA. RIH. Ream and clean the hole 530-720m. POOH partially. Break circulation. Condition mud and circulate. Rig safety inspection and service. Complete POOH. RIH. Cleaned hole for 3 singles to 712 and ran first cement plug. POOH inside the casing to circulate hole clean. Top of first cement plug @ 576m.
Jan. 29, 2010.	1089	POOH in surface casing. Circulated bottoms up after running first cement plug. First cement plug 738-576m. RIH. Circulate hole clean. Ran second cement plug. Circulate. W.O.C. RIH with directional tools. Drilled cement plugs from 526-681m.
Jan. 30, 2010.	1089	Finished drilling cement plugs to 738m depth. Circulate bottoms up. Start reaming open hole. Rig repair & safety meeting. Reamed and cleaned open hole to 938m. Lost circulation @ 938m. Circulate hole clean. POOH. Laid down directional tools. Start running in the hole open ended while doing flow checks to run cement plugs again.
Jan. 31, 2010.	1089	Finished running in to 732m while reaming bridges. Ran first cement plug from 732m. Pull up. WOC. Circulate and clean the hole. Ran second cement plug. WOC. Circulate. POOH. Slip and cut. RIH with directional tools. Broke circulation. Drilled cement to 403-481m.

Feb. 01, 2010	1089	Drilled cement plugs from 481 to 672m. Started losing fluid again from around 500m. Circulate. POOH. Start RIH to run cement plugs and sidetrack the well after plugging back to about 672m.
Feb. 02, 2010	Side Track from 467	RIH to 672m. Ran two cement plugs from 664-467m with WOC for each plug. Performed pressure tests. Rig repairs. Changed chains in draw works.
Feb. 03, 2010	576	Made up directional tools. RIH. Repair pump # 2. Ream & clean 402-467m. Top of cement 467m. Started side track from 467m. Drilled 200mm side track hole from 467m to 576m while taking directional surveys. Lost circulation. POOH. Laid down directional tools. RIH. Reamed from 456 to 576m.
Feb. 04, 2010	731	Drilled 200mm side tracked main hole from 576-681. Wiper trip to 375m. RIH while reaming from 411-590m. Drilled from 681-731m. Nominal returns from 585-609m. No returns & drilled blind from 609-731m.
Feb. 05, 2010	731	POOH to run cement plugs. Reamed and cleaned the hole from 430-453m while coming out. Pick up 73mm fibre glass tubing string. RIH. Washed from 463-602. Unable to get tubing string to bottom. POOH. Laid down fibre glass tubing string. Mud up with polymer mud system. RIH with bit assembly to 624m while reaming and circulating. Mud up with polymer to ream and clean the hole.
Feb. 06, 2010	731	Reamed & cleaned hole 624-731. Circulated bottoms up. Deviation Survey @ 720m. POOH. Rig Service. RIH to bottom with fibre glass tubing. Circulate hole clean. Ran cement plug # 1 from 731-604m. POOH to 500m. WOC. Circulate. RIH. Tagged plug # 1 @ 604m. Condition mud & circulate. Ran cement plug # 2. Pull out of cement. WOC. Circulate.
Feb. 07, 2010	742	WOC. POOH. Laid down fibre glass tubing. Rig service. Slip & cut. RIH with bit assembly. Drilled cement plugs from 535-731m. Drilled 200mm side track from 731-742m. Circulated bottoms up. Deviation survey.
Feb. 08, 2010	951	Drilled 200mm side track from 742-951m while taking deviation surveys. Worked on stuck pipe. Circulated hole clean and condition mud. Start gradual mud up at 900m.
Feb. 09, 2010	1254	Drilled 200mm side track/main hole from 951 -1254 m. Mud up

@ 1000m with polymer.

Feb. 10, 2010	1473	Drilled 200mm main hole from 1254-1473m. TD. Circulated and conditioned mud. Started POOH for wiper trip to surface casing.
Feb. 11, 2010	1473	Completed wiper trip to casing shoe. RIH. Washed hole from 1434-1473m. Conditioned mud and circulated. POOH while strapping pipe. Rigged in and ran in loggers. Loggers tagged bottom @ 1450m. Completed first run of logs. POOH with Logging tools.
Feb. 12, 2010	1473	Laid down logging tools. RIH. Reamed from 1431-1473m. Circulated and conditioned mud. POOH. Ran second run of Logs. Started RIH for clean out trip to run production casing.
Feb. 13, 2010	1473	Finished RIH. Reamed from 1431-1436 & 1451m to 1473m. Circulated and conditioned mud. Ran, circulated & cement production casing. Rig out gas detector.
Feb. 14, 2010	1473	Wait on cement. Rig down BOP. Installed Christmas tree. Rig released.

PARA ET AL CAMERON M-74
UNIT M SECTION 74 GRID 60' 10'' 117' 15''

SAMPLE RECORD

KB: K.B: 782.13m

NOTE: *The well was drilled to MD 1089m TVD 1086.6m and had to be plugged due to lost circulation problems and side tracked from 467m. The samples collected up to MD 1050m TVD 1047.6m are from plugged part of the well.*

FORMATION TOPS MARKED ARE AS PER SAMPLE & ROP

675-680 LIMESTONE 100% buff, off white, micritic to traces very fine grained, rare dolomitic, estimated 3% intergranular porosity, no visible shows.

680-685 LIMESTONE 100% buff, off white, micritic to traces very finegrained, rare dolomitic, estimated 3% intergranular porosity, no visible shows.

685-690 LIMESTONE 100% buff, off white, micritic to traces very fine grained, part argillaceous, rare dolomitic, estimated up to 3% intergranular porosity, no visible shows.

690-695 LIMESTONE 90% buff, microcrystalline to traces very fine crystalline, part argillaceous, estimated 3% intergranular porosity, no visible shows.
SHALE 10% grey, greenish grey, subfissile, medium hard.

695-700 LIMESTONE 90% buff, grey, micritic, argillaceous, estimated 3% intergranular porosity, no visible shows.
SHALE 10% grey, greenish grey, subfissile, medium hard.

700-705 NO SAMPLE: Lost Circulation but gained again.

705-710 LIMESTONE 100% buff, micritic to traces very finegrained, trace pyrite, rare dolomitic, estimated 3% intergranular porosity, no visible shows.

710-715 LIMESTONE 100% buff, grey, microcrystalline, traces carbonaceous, traces argillaceous, estimated 3% intergranular porosity, no visible shows.

TOP JEAN MARIE MD 718m TVD 717.2m (64.9m SS)

715-720 LIMESTONE 100% buff, grey, micritic, traces carbonaceous, estimated 3% intergranular porosity, no visible shows.

TOP FORT SIMPSON MD 724m 723.2m (58.9m SS)

720-725 LIMESTONE 90% buff, grey, micritic, traces carbonaceous, trace pyrite, estimated 3% intergranular porosity, no visible shows.

SHALE 10% greenish grey, grey, subfissile, medium hard.

725-730 LIMESTONE 90% buff, grey, microcrystalline, traces carbonaceous, trace pyrite, estimated 3% intergranular porosity, no visible shows.

SHALE 10% greenish grey, grey, subfissile, medium hard.

730-735 LIMESTONE 90% buff, grey, micritic, traces carbonaceous, estimated 3% intergranular porosity, no visible shows.

SHALE 10% grey, greenish grey, subfissile, medium hard.

790-800 SHALE 90% grey, greenish grey, brown fissile-subfissile, part carbonaceous, medium hard.

800-810 SHALE 80% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.
LIMESTONE 20% grey, micritic, trace very fine grained, part argillaceous, estimated 3% intergranular porosity, no visible shows.

810-815 LIMESTONE 60% grey, micritic, trace very fine grained, part argillaceous, estimated up to 3% intergranular porosity, no visible shows.

SHALE 40% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

815-820 SHALE 70% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.
LIMESTONE 30% grey, micritic, trace very fine grained, part argillaceous, estimated 3% intergranular porosity, no visible shows.

820-825 SHALE 100% grey, greenish grey, fissile-subfissile, part splintery, part carbonaceous, medium hard.

LIMESTONE MINOR grey, micritic, trace very fine crystalline, part argillaceous, estimated 3% intergranular porosity, no visible shows.

825-830 SHALE 60% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

LIMESTONE 40% grey, micritic, minor very fine crystalline, part slightly argillaceous, estimated 3% intergranular porosity, no visible shows.

TOP TWIN FALLS MD 834m TVD 832.6 (-50.5m SS)

830-835 SHALE 70% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

LIMESTONE 30% grey, micritic, minor very fine crystalline, part slightly argillaceous, occasional brown dolomite, estimated 3-6% intergranular porosity, no visible shows.

835-840 SHALE 60% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

LIMESTONE 40% grey, microcrystalline-cryptocrystalline, trace very fine crystalline, part slightly argillaceous, estimated 3-6% intergranular porosity, no visible shows.

840-845 LIMESTONE 80% buff, grey, micritic, trace very fine-fine crystalline, dense, estimated 3-6% intergranular porosity, no visible shows.

SHALE 20% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

845-850 LIMESTONE 90% buff, grey, micritic, dense, estimated 3% intergranular porosity, no visible shows.

SHALE 10% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

850-855 LIMESTONE 90% buff, grey, micritic, dense, estimated 3-6% intergranular porosity, no visible shows.

SHALE 10% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

855-860 LIMESTONE 90% buff, grey, micritic, dense, trace recrystallization, estimated 3% intergranular porosity, no visible shows.

SHALE 10% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

860-865 LIMESTONE 90% buff, grey, micritic, dense, estimated 3-6% intergranular porosity, no visible shows.

SHALE 10% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

865-870 LIMESTONE 95% buff, grey, micritic, trace very fine grained, dense, estimated 3-6% intergranular porosity, no visible shows.

SHALE 5% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

870-875 LIMESTONE 100% buff, grey, micritic, trace very fine grained, dense, estimated 3% intergranular porosity, no visible shows.

SHALE MINOR grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

875-880 LIMESTONE 80% buff, grey, micritic, trace very fine grained, dense, estimated 3% intergranular porosity, no visible shows.

SHALE 20% grey, greenish grey, fissile-subfissile, medium hard.

880-885 LIMESTONE 90% buff, grey, micritic, traces very fine grained, dense, estimated 3-6% intergranular porosity, no visible shows.

SHALE 10% grey, greenish grey, fissile-subfissile, medium hard.

885-890 LIMESTONE 95% buff, grey, micritic, traces very fine grained, dense, trace dolomite, estimated 3-6% intergranular porosity, no visible shows.

SHALE 05% grey, greenish grey, fissile-subfissile, medium hard.

890-895 LIMESTONE 70% buff, grey, micritic, trace very fine grained, dense, trace pyrite, estimated 3-6% intergranular porosity, no visible shows.

SHALE 30% grey, greenish grey, fissile-subfissile, medium hard.

895-900 LIMESTONE 80% buff, grey, micritic, traces very fine grained, dense, estimated 3-6% intergranular porosity, no visible shows.

SHALE 80% grey, greenish grey, fissile-subfissile, medium hard.

900-905 LIMESTONE 90% buff, grey, micritic, traces very fine grained, dense, part argillaceous, estimated 3-6% intergranular porosity, no visible shows.

SHALE 80% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

905-910 LIMESTONE 80% buff, grey, micritic, traces very fine grained, dense, part argillaceous, estimated 3% intergranular porosity, no visible shows.

SHALE 80% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

910-915 LIMESTONE 90% buff, grey, micritic, traces very fine grained, dense, part argillaceous, estimated 3% intergranular porosity, no visible shows.

SHALE 10% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

915-920 LIMESTONE 80% buff, grey, micritic, traces very fine grained, dense, slightly argillaceous, estimated 3% intergranular porosity, no visible shows.

SHALE 20% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

920-925 SHALE 60% grey, greenish grey, fissile-subfissile, part carbonaceous, trace pyrite, medium hard.

LIMESTONE 40% buff, grey, micritic, traces very fine grained, dense, slightly argillaceous, estimated 3% intergranular porosity, no visible shows.

925-930 SHALE 70% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

LIMESTONE 30% buff, grey, micritic, traces very fine grained, dense, slightly argillaceous, estimated 3% intergranular porosity, no visible shows.

930-935 SHALE 80% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

LIMESTONE 20% buff, grey, micritic, traces very fine grained, dense, slightly argillaceous, estimated 3% intergranular porosity, no visible shows.

935-945 SHALE 95% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

LIMESTONE 05% grey, buff, micritic, trace very fine grained, dense, slightly argillaceous, estimated 3% intergranular porosity, no visible shows.

945-950 SHALE 60% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

LIMESTONE 40% grey, buff, micritic, trace very fine grained, dense, slightly argillaceous, trace disseminated pyrite, estimated 3% intergranular porosity, no visible shows.

950-955 LIMESTONE 90% buff, grey, micritic, traces very fine grained, dense, slightly argillaceous, estimated 3% intergranular porosity, no visible shows.

SHALE 10% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

955-960 SHALE 70% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.
LIMESTONE 30% buff, grey, micritic, traces very fine grained, dense, slightly argillaceous,
estimated 3% intergranular porosity, no visible shows.

960-965 SHALE 70% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.
LIMESTONE 30% buff, grey, micritic, traces very fine grained, part dense, slightly argillaceous,
estimated 3% intergranular porosity, no visible shows.

965-970 SHALE 60% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.
LIMESTONE 40% buff, grey, micritic, traces very fine grained, part dense, slightly argillaceous,
estimated 3% intergranular porosity, no visible shows.

970-975 LIMESTONE 80% buff, grey, micritic, traces very fine grained, part dense, slightly
argillaceous, estimated 3% pin point & intergranular porosity, no visible shows.
SHALE 20% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

975-980 LIMESTONE 80% buff, grey, micritic, traces very fine grained, part dense, slightly
argillaceous, estimated 3% pin point & intergranular porosity, no visible shows.
SHALE 20% grey, greenish grey, fissile-subfissile, part carbonaceous, medium hard.

980-985 LIMESTONE 90% grey, buff, micritic, traces very fine grained, part dense, slightly
argillaceous, estimated 3% pin point & intergranular porosity, no visible shows.
SHALE 10% grey, fissile-subfissile, part carbonaceous, part calcareous, medium hard.

985-990 LIMESTONE 20% grey, buff, micritic, traces very fine grained, part dense,
argillaceous, part grading to marlstone, estimated 3% pin point & intergranular porosity, no visible
shows.
SHALE 80% grey, fissile-subfissile, micaceous, calcareous, medium hard.

990-995 LIMESTONE 90% grey, buff, micritic, traces very fine grained, part dense,
argillaceous, part grading to marlstone, estimated 3% pin point & intergranular porosity, no visible
shows.
SHALE 10% grey, fissile-subfissile, micaceous, calcareous, medium hard.

TOP HAY RIVER MD 998m TVD 995.6m (-213.5m SS)

995-1000 LIMESTONE 60% grey, buff, micritic, traces very fine grained, part dense,
argillaceous, part grading to marlstone, estimated 3% pin point & intergranular porosity, no visible
shows.
SHALE 40% grey, black, fissile-subfissile, micaceous, part carbonaceous, part calcareous,
medium hard.

1000-1005 LIMESTONE 40% grey, buff, micritic, traces very fine grained, part dense, part
argillaceous, estimated 3% pin point & intergranular porosity, no visible shows.
SHALE 60% grey, black, fissile-subfissile, micaceous, part calcareous, medium hard.

1005-1010 LIMESTONE 80% grey, buff, micritic-minor very fine grained, part dense, part argillaceous, estimated 3% pin point & intergranular porosity, no visible shows.
SHALE 20% grey, black, fissile-subfissile, part calcareous, medium hard.

1010-1015 LIMESTONE 80% grey, buff, micritic-minor very fine grained, part dense, part argillaceous, trace dolomite, trace pyrite, estimated 3% pin point & intergranular porosity, no visible shows.
SHALE 20% grey, black, fissile-subfissile, part calcareous, medium hard. Poor Samples.

1015-1020 LIMESTONE 85% grey, buff, micritic-minor very fine grained, part dense, part argillaceous, trace dolomite, estimated 3% pin point & intergranular porosity, no visible shows.
SHALE 15% grey, black, fissile-subfissile, part calcareous, medium hard.

1020-1026 SHALE 70% grey, black, fissile-subfissile, part calcareous, medium hard.
LIMESTONE 30% grey, buff, micritic-minor very fine grained, part argillaceous, trace dolomite, estimated 3% pin point & intergranular porosity, no visible shows.

1026-1030 SHALE 90% grey, black, fissile-subfissile, trace pyrite, part calcareous, medium hard.
LIMESTONE 10% grey, buff, micritic-part very fine grained, part argillaceous, trace dolomite, estimated 3% pin point & intergranular porosity, no visible shows.

1030-1035 SHALE 80% grey, black, fissile-subfissile, part calcareous, medium hard.
LIMESTONE 20% grey, buff, micritic-part very fine grained, part argillaceous, estimated 3% pin point & intergranular porosity, no visible shows.

1035-1040 SHALE 90% grey, black, fissile-subfissile, part calcareous, medium hard.
LIMESTONE 10% grey, buff, micritic-part very fine grained, part argillaceous, minor slightly dolomitic, trace pyretic, estimated 3% pin point & intergranular porosity, no visible shows.

1040-1050 SHALE 95% grey, black, fissile-subfissile, part calcareous and siliceous, medium hard.
LIMESTONE 05% grey, buff, micritic-part very fine grained, part argillaceous, minor slightly dolomitic, estimated 3% pin point & intergranular porosity, no visible shows.

NO SAMPLES WERE COLLECTED FROM 1050m to 1295m DEPTH

1295-1300 SHALE 100% dark brown black, minor grey, rough-waxy, medium hard-hard, micaceous, grey slightly silty, calcareous, trace pyrite, fissile-subfissile.

1300-1305 SHALE 100% dark brown, part grey, rough-waxy, medium hard-hard, micaceous, grey slightly silty, calcareous, trace argillaceous limestone, fissile-subfissile, dark brown gives cut.

1305-1310 SHALE 100% greenish grey, part dark brown, rough-waxy, medium hard-hard, micaceous, part slightly silty, calcareous, traces argillaceous limestone, fissile-subfissile, trace splintery, dark brown gives cut.

1310-1315 SHALE 100% greenish grey, part dark brown, rough-waxy, medium hard-hard, micaceous, part slightly silty, calcareous, fissile-subfissile, trace splintery, dark brown gives cut.
MINOR LIMESTONE light grey, mudstone, micritic, lumpy, dense, microcrystalline, tight, 0-3% earthy porosity, no shows.

1315-1320 SHALE 100% greenish grey, part dark brown, rough-waxy, medium hard-hard, micaceous, part slightly silty, calcareous, fissile-subfissile, dark brown gives cut.
TRACES LIMESTONE light grey, mudstone, micritic, lumpy, dense, microcrystalline-cryptocrystalline, tight, 0-3% earthy porosity, no shows.

1320-1325 SHALE 100% greenish grey, part black brown, rough-waxy, medium hard-hard, micaceous, part silty, calcareous, trace pyrite nodules, fissile-subfissile.
TRACES LIMESTONE as above.

TOP BEAVERHILL LAKE MD 1324m SS - 542

1325-1330 SHALE 100% greenish grey, part black brown, rough-waxy, medium hard-hard, micaceous, part silty, calcareous, minor pyretic, trace pyrite nodules, fissile-subfissile.
LIMESTONE MINOR-5% light grey, buff, mudstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, tight, 0-3% earthy porosity, no shows.

1330-1335 SHALE 95% grey, black, minor brown, rough-waxy, medium hard-hard, micaceous, silty, calcareous, traces pyretic, fissile-subfissile.
LIMESTONE 5% light grey, buff, mudstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, minor slightly argillaceous, trace slightly dolomitic, trace pyretic, tight, 0-3% earthy porosity, no shows.

1335-1340 SHALE 95% grey, black, minor brown, rough-waxy, medium hard-hard, micaceous, part silty, calcareous, traces pyretic, fissile-subfissile.
LIMESTONE MINOR-5% light grey, buff, mudstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, minor slightly argillaceous, trace slightly dolomitic, trace pyretic, tight, 0-3% earthy porosity, no shows.

1340-1345 SHALE 95% grey, black, minor brown, rough-waxy, medium hard-hard, micaceous, part silty, calcareous, minor slightly dolomitic, traces pyretic, fissile-subfissile.
LIMESTONE 5% light grey, buff, mudstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, minor slightly argillaceous, trace slightly dolomitic, trace pyretic, tight, 0-3% earthy porosity, no shows.

TOP SLAVE POINT 1348.5M SS - 566.5m

1345-1350 SHALE 90% grey, black, minor brown, rough-waxy, medium hard-hard, micaceous, part silty, calcareous, pyretic, trace dolomite, fissile-subfissile.

LIMESTONE 10% light grey, buff, traces brown, mudstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, minor slightly argillaceous, traces dolomitic, minor pyretic, tight, 0-3% earthy porosity, no shows.

1350-1355 LIMESTONE 100% brown, buff, mudstone, micritic, lumpy, dense-lithographic, cryptocrystalline-trace very fine crystalline, tight, 0-3% earthy porosity, milky white fair streaming cut, gives petriferous odour.

1355-1360 LIMESTONE 100% brown, buff, mudstone, micritic, lumpy, dense, cryptocrystalline-trace very fine crystalline, trace dolomitic, tight, 0-3% earthy porosity, milky white good streaming cut, gives petriferous odour.

1360-1365 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, tight, 3% earthy porosity, milky white good streaming cut, gives petriferous odour.

1365-1370 LIMESTONE 100% brown, buff, mudstone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, tight, estimated 3% earthy and pin point porosity, milky white good streaming cut, gives petriferous odour.

1370-1375 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, trace pyrite nodule, trace dolomitic, tight, estimated 3-6% earthy and pin point porosity, milky white fair streaming cut, gives petriferous odour.

1375-1380 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, trace dolomitic, tight, estimated 3% earthy and pin point porosity, milky white good streaming cut, gives petriferous odour.

1380-1385 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic and dolomitic, rare anhydritic, estimated 3% earthy and pin point porosity, no visible-poor slow cut.

TOP F-4 1389.5m SS – 607.5m

1385-1390 LIMESTONE 100% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, trace Anhydrite, tight, estimated 3% earthy and pin point porosity, milky white good streaming cut. DOLOMITE MINOR dark brown, wakestone, microcrystalline-very fine crystalline, estimated 3-6% earthy and pin point porosity, milky white good streaming cut.

1390-1395 LIMESTONE 80% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, tight, estimated 3% earthy and pin point porosity, milky white good streaming cut.

DOLOMITE 20% dark brown, wakestone, microcrystalline-very fine crystalline, estimated 3% earthy and intercrystalline porosity, poor-fair slow cut. MINOR ANHYDRITE white, tan, hard, dense, dolomitic.

TOP WATT MTN 1396m SS -614m

1395-1400 LIMESTONE 70% as above

DOLOMITE 25% as above

MINOR ANHYDRITE white, tan, hard, dense, dolomitic.

SHALE 5% green, waxy-silky, medium hard-hard, micaceous, calcareous, traces pyrite nodules, fissile-blocky.

1400-1405 SHALE 40% green, waxy-silky, medium hard-hard, micaceous, calcareous, pyretic, traces pyrite nodules, fissile-blocky. LIMESTONE 60% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-minor very fine crystalline, traces pyretic, tight, estimated 3% earthy and pin point porosity, milky white good streaming cut.

TOP SULPHUR PT. LIMESTONE 1405.5m SS -623.5m

1405-1410 LIMESTONE 80% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-traces very fine crystalline, tight, estimated 0-3% earthy and pin point porosity, no visible shows. SHALE 20% as above.

TOP SULPHUR PT DOLOMITE 1413m SS -631

1410-1415 LIMESTONE 95% brown, buff, mudstone-wakestone, micritic, lumpy, dense, cryptocrystalline-traces very fine crystalline, tight, estimated 0-3% earthy and pin point porosity, no visible shows. SHALE 05% as above. Traces Dolomite.

1415.0-1417.5 LIMESTONE 90% as above.

DOLOMITE 10% brown, grainstone-wakestone, very fine-minor fine crystalline, slightly calcareous, estimated 9% pin point and intercrystalline porosity, scattered bright yellow fluorescence, yellow white good streaming cut.

1417.5-1420.0 DOLOMITE 50% brown, grainstone-wakestone, very fine-fine crystalline, estimated 9% pin point and intercrystalline porosity, scattered yellow fluorescence, yellow white good fast streaming cut. LIMESTONE 50% as above.

1420.0-1422.5 DOLOMITE 100% brown, grainstone, very fine-fine crystalline, trace free crystals, traces bitumen partings, estimated 6-9% intercrystalline and vuggy porosity, bright yellow fluorescence, yellow white good fast streaming cut.

1422.5-1425.0 DOLOMITE 100% brown, grainstone, very fine-fine crystalline, traces free crystals, traces bitumen partings, estimated 6-9% intercrystalline and vuggy porosity, scattered bright yellow fluorescence, yellow white good fast streaming cut.

1425.0-1427.5 DOLOMITE 100% brown, grainstone, very fine-fine crystalline, traces free crystals, recrystallization at places, traces bitumen partings and limestone, estimated 3-6%

intercrystalline and vuggy porosity, scattered bright yellow fluorescence, yellow white good fast streaming cut.

TOP MUSKEG 1429.5m SS -647.5m

1427.5-1430.0 DOLOMITE 100% brown, minor dark brown, grainstone, very fine-fine crystalline, traces free crystals, recrystallization common, traces bitumen partings and pyrite, estimated 3-6% intercrystalline and vuggy porosity, yellow white fair streaming cut.

1430.0-1432.5 DOLOMITE 100% brown, trace dark brown, grainstone, very fine-fine crystalline, traces free crystals, abundant bituminous black shale, estimated 6% intercrystalline and vuggy porosity, no visible-very poor slow cut. Trace Anhydrite.

1432.5-1435.0 DOLOMITE 100% brown, dark brown, grainstone, very fine-fine crystalline, estimated 6% intercrystalline and vuggy porosity, yellow white fair streaming cut. MINOR ANHYDRITE cream, white, off white, dense, cryptocrystalline, hard.

1435.0-1437.5 DOLOMITE 90% brown, dark brown, grainstone, very fine-fine crystalline, estimated 6% intercrystalline and vuggy porosity, yellow white fair streaming cut. ANHYDRITE 10% cream, white, off white, dense, cryptocrystalline, hard.

1437.5-1440.0 DOLOMITE 90% brown, dark brown, grainstone, very fine-fine crystalline, abundant bitumen and shale, estimated 3-6% intercrystalline and vuggy porosity, no visible cut. ANHYDRITE 10% cream, white, off white, dense, cryptocrystalline, hard.

1440-1445 DOLOMITE 80% brown, dark brown, grainstone, very fine-fine crystalline, abundant bitumen and shale, estimated 3-6% intercrystalline and vuggy porosity, no visible-poor cut. ANHYDRITE 20% cream, white, off white, dense, cryptocrystalline, hard.

1445-1450 ANHYDRITE 40% cream, white, off white, dense, cryptocrystalline, hard.
DOLOMITE 40% as above, gives yellow white fair streaming cut.
SHALE 20% green grey, black, rough, medium hard-hard, calcareous, blocky-splintery.

1450-1455 ANHYDRITE 80% cream, white, off white, dense, cryptocrystalline, hard.
DOLOMITE 20% as above, gives yellow white fair slow cut.
SHALE MINOR as above.

1455-1460 ANHYDRITE 90% cream, white, off white, dense, cryptocrystalline, hard.
DOLOMITE 10% brown, dark brown, grainstone-minor wakestone, very fine-fine crystalline, estimated 3-6% intercrystalline and pinpoint porosity, yellow white fair slow streaming cut.

1460-1465 ANHYDRITE 95% cream, white, off white, dense, cryptocrystalline, hard.
DOLOMITE 10% as above.

1465-1470 ANHYDRITE 90% cream, white, off white, dense, cryptocrystalline, hard.
DOLOMITE 10% brown, dark brown, grainstone-minor wakestone, very fine-fine crystalline, estimated 6% intercrystalline and pinpoint porosity, yellow white no visible-slow cut.

1470-1473 ANHYDRITE 40% cream, white, off white, dense, cryptocrystalline, hard.
DOLOMITE 60% as above.

TD 1473m (SS - 691m) REACHED ON FEBRUARY 10, 2010 @ 2200 HRS.

BIT RECORD

Bit No.	Size mm	Make	Type	Jets	Depth IN/Out (m)	Bit Mtrs	Bit Hrs	Wt DaN 1000	RPM	Cumul. Hrs	T-B-G	Remarks
1	311	Varel	HE04SMR SV	14.3X4	000/378	378	30.50	3-4	65-110			Surf. Hole
2A	200	Varel	VTD513H X	10.3X7	378/1089	711	55.25	3	90			Main Hole
2B	200	Varel	VTD513H X	10.3X7	467/576 Side track	109	07.00					
2C	200	Varel	HE18MS V	3X14.3	576/731	155	15.25					
2D	200	Varel	VTD513H X	10.3X7	535/1473 cement 535-731	938	74.25					Drilled cement 535-731m TD 1473.

BIT HOURS TO DRILL 378m OF SURFACE HOLE:	030.50
BIT HOURS TO DRILL MAIN HOLE:	151.75
TOTAL BIT HOURS TO DRILL 2095m OF BOTH TRACKS FOR 1473m OF HOLE:	182.25

MUD RECORD

WELL NAME: Para et al Cameron M-75

MUD COMPANY: Marquis Alliance

HOLE SIZE: 311 & 222 mm

MUD TYPE: Polymer.

TOTAL DEPTH: m

MUD UP @: 1000m

DEPTH (M)	DEN. Kg/m ³	VIS. (S/L)	W.L. (ml/30 min)	pH	REMARKS
95	1015	34			
167	1010	38			
290	1020	45			
334	1020	50			
367	1020	65			
374	1020	78			
378	1020	45			Surface hole T.D. 378m
620	1000	30		10.0	Drilled with floc water 378-900m.
966	1020	37		8.5	Start Mud Up @ 900m
1026	1050	58	7.0	11.5	
1086	1050	40	-	10.0	
467	1005	30	-	10.5	Drilled Side Track with Floc Water from 467-900m.
610	1020	30	-	10.0	
755	1010	30	-	11.0	
912	1027	27	-	11.0	
1010	1010	34	-	8.5	
1130	1020	35	9.5	8.5	
1200	1025	36	15.0	8.5	
1295	1025	40	8.0	8.5	
1327	1030	42	8.0	9.0	
1473	1040	50	7.0	10.0	

ENCLOSURES

Following are enclosed as part of this report.

1. Geological Strip Log & ROP GAS Plot: 467m to TD (Side/main Track).
2. Geological Strip Log & ROP GAS Plot: 378m to 1089m (Plugged Track).
3. CD.

DISTRIBUTION

The original and FIVE copies of the geological report on Para et al Cameron M-74 has 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 M-74
Location: M 74 60 10 117 15
License Number: 1221
Spud Date: Jan. 17, 2010@0730hrs
Surface Coordinates: Lat 60 03 58.8 Long 117 29 56.8

Region: NWT Mainland
Drilling Completed: Feb.10, 2010@ 2200hrs

Bottom Hole
Coordinates:
Ground Elevation (m): 777.93 K.B. Elevation (m): 782.13
Logged Interval (m): Surface To: 1458m Total Depth (m): 1473m
Formation:
Type of Drilling Fluid: Floc Water & Polymer.

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.co

OPERATOR

Company: Paramount Resources Ltd.
Address: 4700 Bankers Hall West
888 3rd Street S.W
Calgary, AB. Canada. T2P 5C5

GEOLOGIST

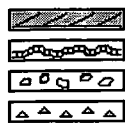
Name: Mashhood Chaudhry
Company: Moh & Associates Oilfield Consultants Ltd.
Address: 509 - 206 7th Avenue S.W.
Calgary, AB. Canada. T2P 0W7

Cores

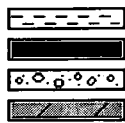
DSTs

Comments

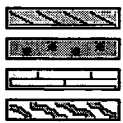
ROCK TYPES



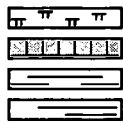
Anhy
Bent
Brec
Cht



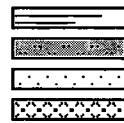
Clyst
Coal
Congl
Dol



Gyp
Igne
Lmst
Meta



Mrlst
Salt
Shale
Shcol



Shgy
Siltst
Ss
Till

ACCESSORIES

MINERAL

☒ Anhy
☒ Arggrn
☐ Arg
☐ Bent
☐ Bit
☐ Brecfrag
☐ 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

☐ Spotted
☐ Ques
☐ Dead

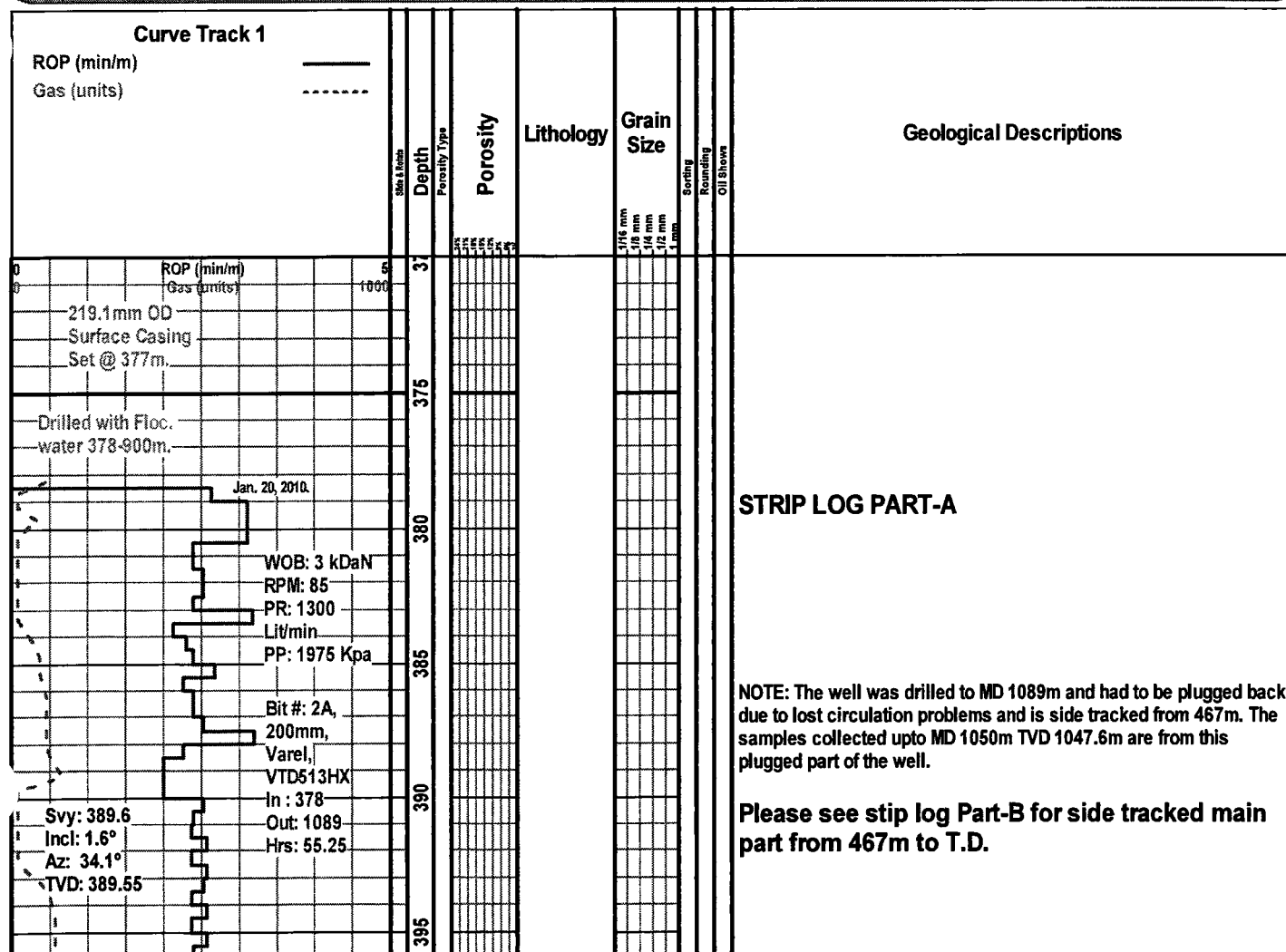
INTERVAL

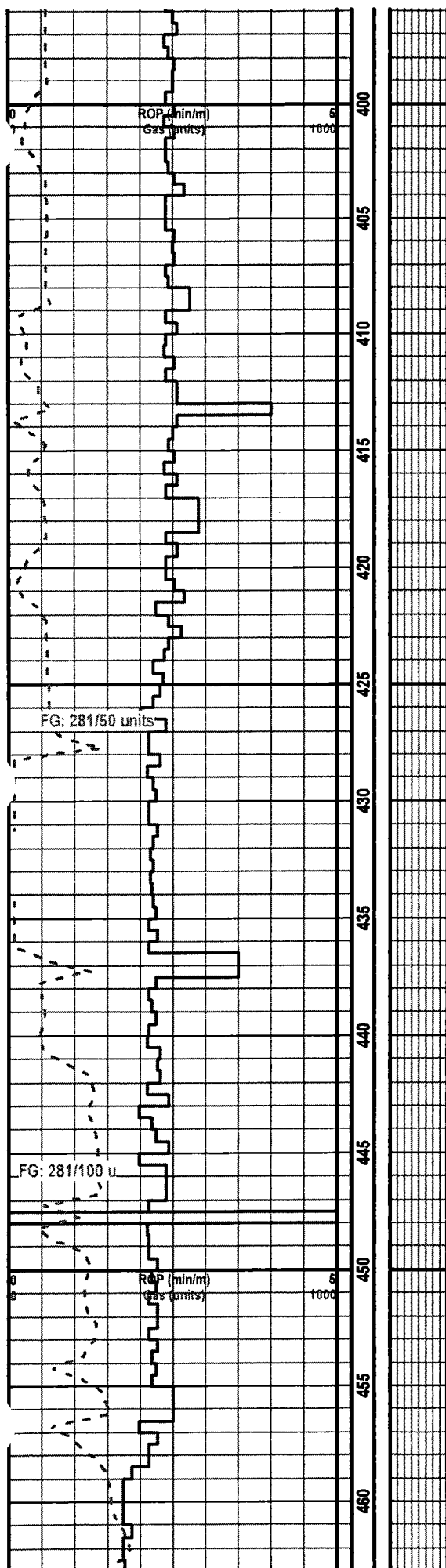
☐ Core
☐ Dst

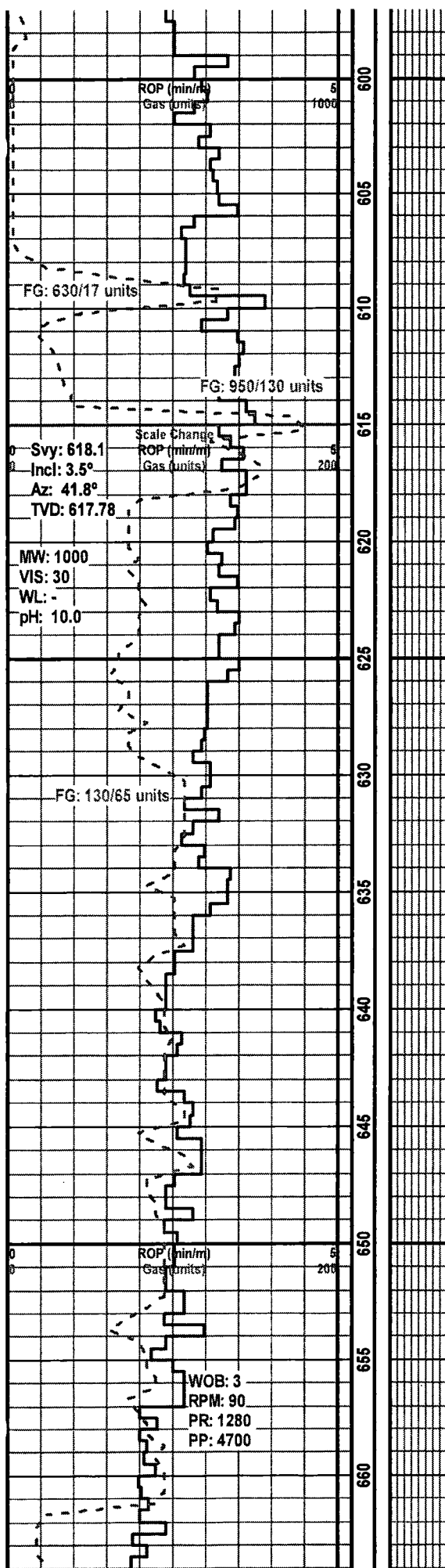
EVENT

☐ Rft
☐ Sidewall

☐ OIL SHOW
☐ Even

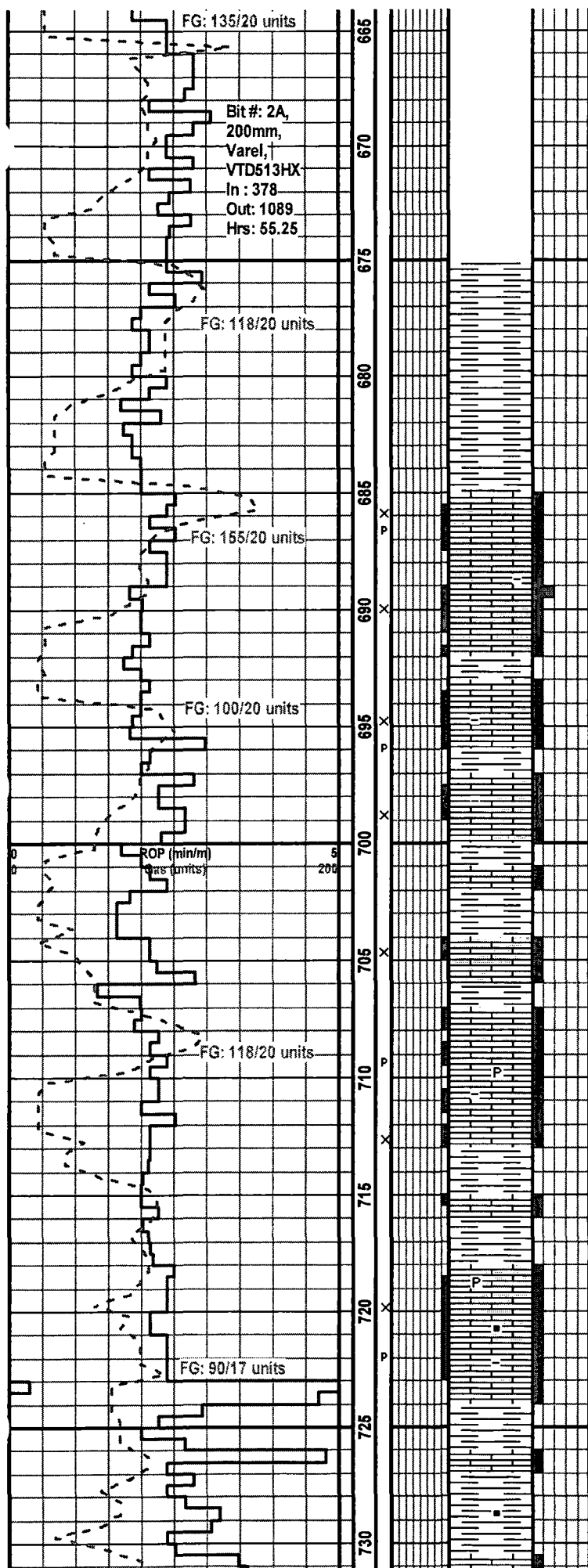


[illegible]



SAMPLES COLLECTED FROM 790-1050m FOR PARAMOUNT.

SAMPLES FROM 690-725m WERE NOT DEEPER SAMPLES AND NOT



SAMPLES FROM 660-730m WERE NOT PROPER SAMPLES AND NOT TO BE SAVED.

FORMATION TOPS MARKED ARE AS PER SAMPLE & ROP

675-680 LS 100% bf, off wh, mict-trs vfg, rr dolc, est 3% intgr por, no visible shows.

680-685 LS 100% bf, off wh, mict-trs v finegrained, rr dolc, est 3% intgr por, no visible shows.

685-690 LS 100% bf, off wh, mict-trs vfg, pt arg, rr dolc, est upto 3% intgr por, no visible shows.

690-695 LS 90% bf, microxln-trs vf cryatallin, pt arg, est 3% intgr por, no visible shows.
SH 10% grey, greenish grey, subfissile, med hd.

695-700 LS 90% bf, grey, mict, arg, est 3% intgr por, no visible shows.
SH 10% grey, greenish grey, subfissile, med hd.

700-705 NO SAMPLE: Lost Circulation. Lithology interpreted from ROP.

705-710 LS 100% bf, mict-trs v finegrained, tr pyr, rr dolc, est 3% intgr por, no visible shows.

710-715 LS 100% bf, grey, microxln, trs carb, trs arg, est 3% intgr por, no visible shows.

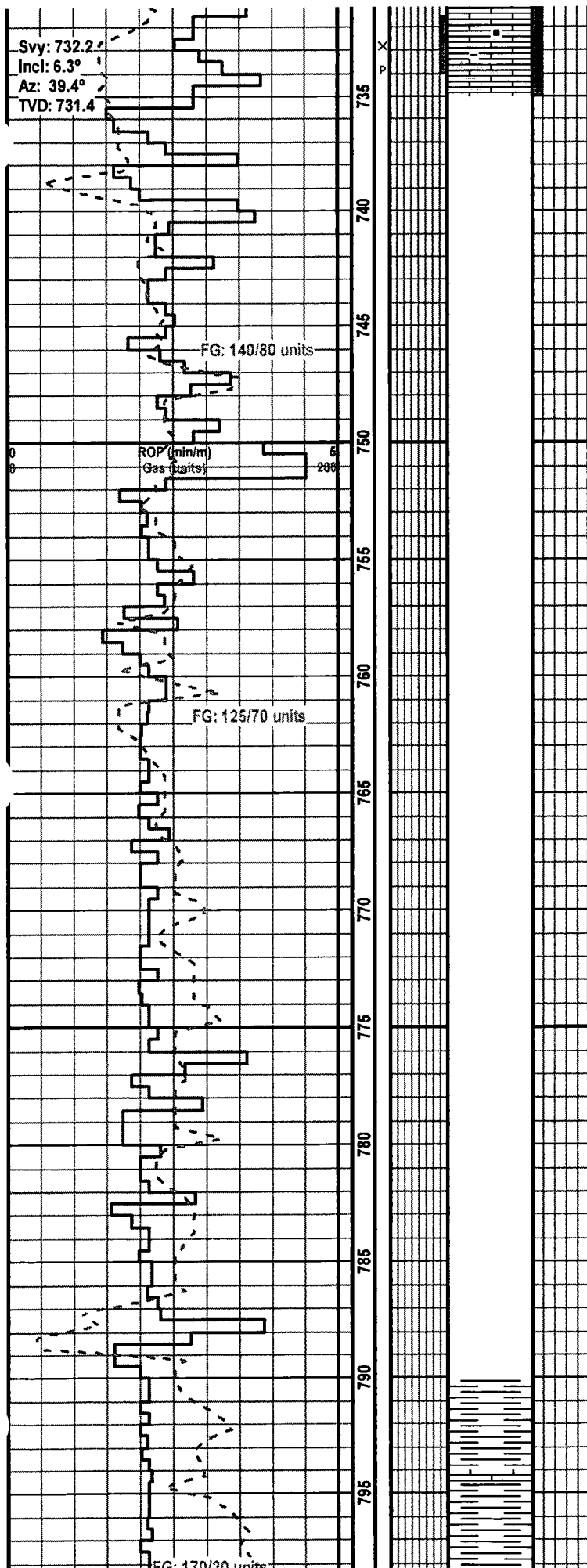
715-720 LS 100% bf, grey, mict, trs carb, est 3% intgr por, no visible shows.

TOP JEAN MARIE MD 718m TVD 717.2m (64.9m SS)

720-725 LS 90% bf, grey, mict, trs carb, tr pyr, est 3% intgr por, no visible shows.
SH 10% greenish grey, grey, subfissile, med hd.

TOP FORT SIMPSON MD 724m TVD 723.2m (58.9m SS)

725-730 LS 90% bf, grey, microxln, trs carb, tr pyr, est 3% intgr por, no visible shows.
SH 10% greenish grey, grey, subfissile, med hd.



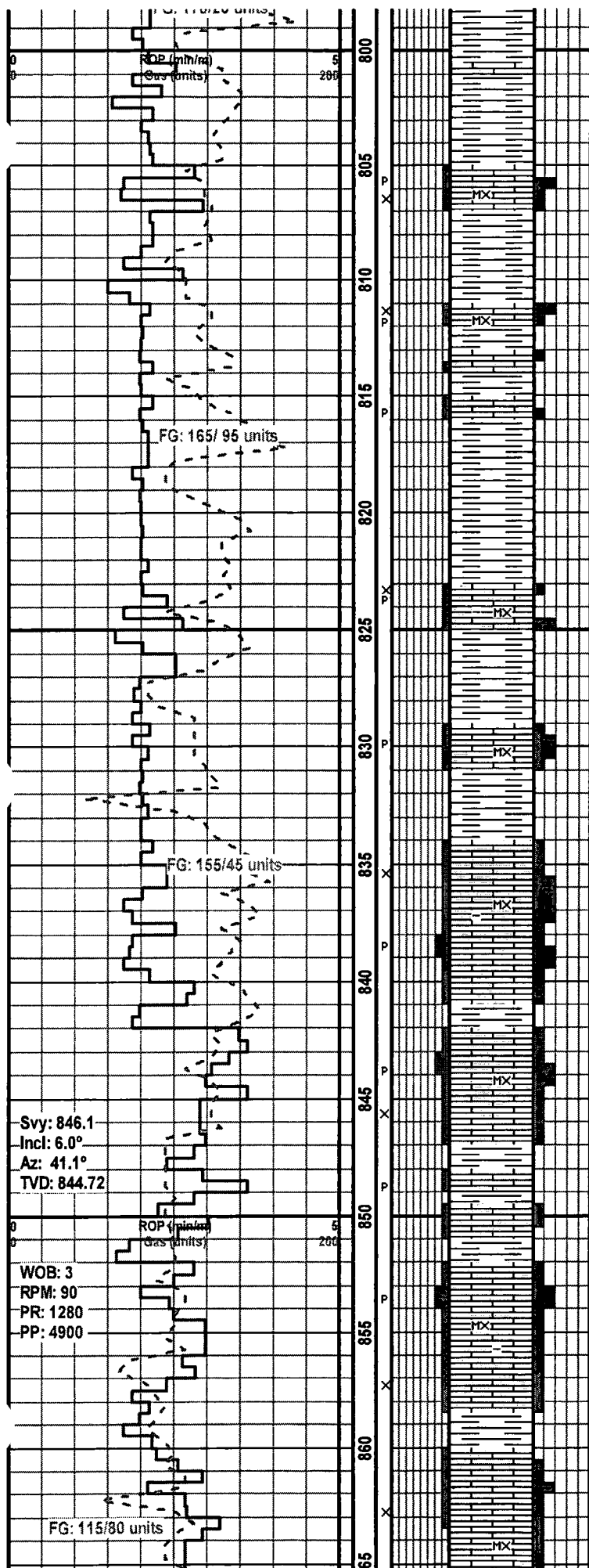
730-735 LS 90% bf, grey, mict, trs carb, est 3% intgr por, no visible shows.

SH 10% grey, greenish grey, subfissile, med hd.

SAMPLES COLLECTED FROM 790-1050m FOR PARAMOUNT.

FORMATION TOPS MARKED ARE AS PER SAMPLE & ROP

790-800 SH 90% grey, greenish grey, brn fis-subfissile, pt carb, med hd.



800-810 SH 80% grey, greenish grey, fis-subfissile, pt carb, med hd.
LS 20% grey, mict, tr vfg, pt arg, est 3% intgr por, no visible shows.

810-815 LS 60% grey, mict, tr vfg, pt arg, est upto 3% intgr por, no visible shows.
SH 40% grey, greenish grey, fis-subfissile, pt carb, med hd.

815-820 SH 70% grey, greenish grey, fis-subfissile, pt carb, med hd.
LS 30% grey, mict, tr vfg, pt arg, est 3% intgr por, no visible shows.

820-825 SH 100% grey, greenish grey, fis-subfissile, pt spl, pt carb, med hd.
LS MINOR grey, mict, tr vf xl, pt arg, est 3% intgr por, no visible shows.

825-830 SH 60% grey, greenish grey, fis-subfissile, pt carb, med hd.
LS 40% grey, mict, mnr vf xl, pt sl arg, est 3% intgr por, no visible shows.

830-835 SH 70% grey, greenish grey, fis-subfissile, pt carb, med hd.
LS 30% grey, mict, mnr vf xl, pt sl arg, occ brn dol, est 3-6% intgr por, no visible shows.

TOP TWIN FALLS MD 834m TVD 832.6 (-50.5m SS)

835-840 SH 60% grey, greenish grey, fis-subfissile, pt carb, med hd.
LS 40% grey, microxln-crptxl, tr vf xl, pt sl arg, est 3-6% intgr por, no visible shows.

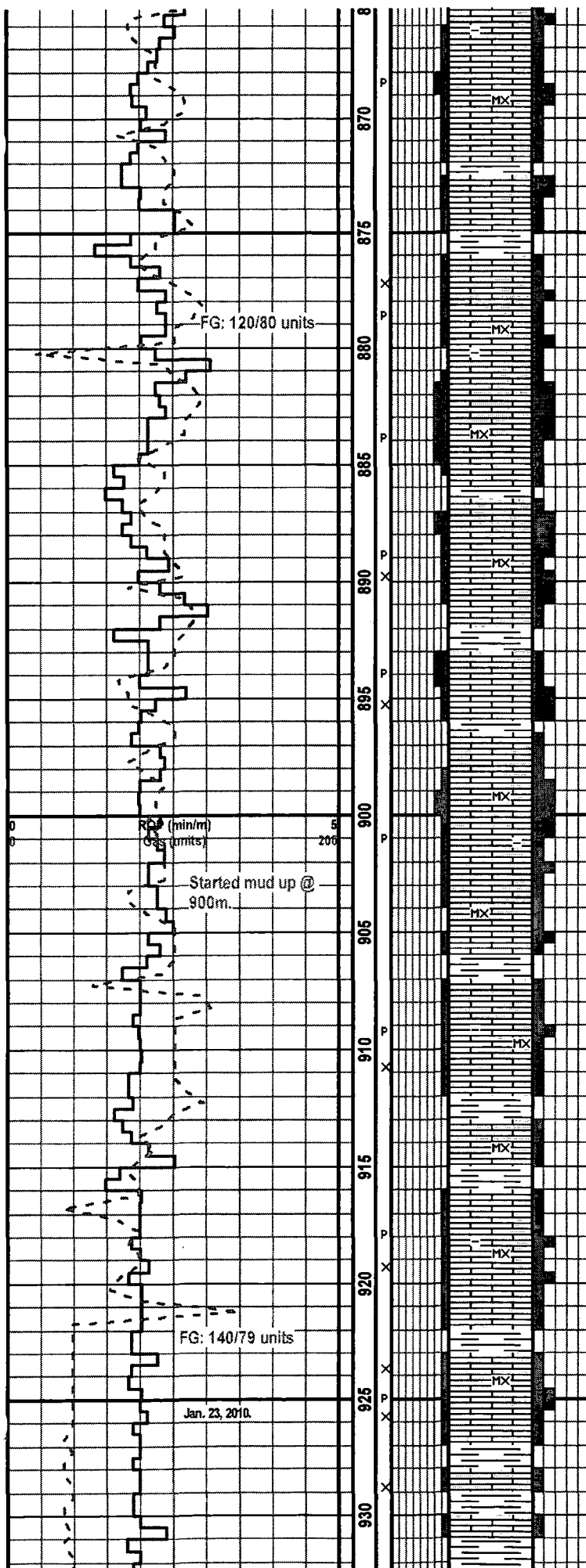
840-845 LS 80% bf, grey, mict, tr vf xl, dns, est 3-6% intgr por, no visible shows.
SH 20% grey, greenish grey, fis-subfissile, pt carb, med hd.

845-850 LS 90% bf, grey, mict, dns, est 3% intgr por, no visible shows.
SH 10% grey, greenish grey, fis-subfissile, pt carb, med hd.

850-855 LS 90% bf, grey, mict, dns, est 3-6% intgr por, no visible shows.
SH 10% grey, greenish grey, fis-subfissile, pt carb, med hd.

855-860 LS 90% bf, grey, mict, dns, tr rexiz, est 3% intgr por, no visible shows.
SH 10% grey, greenish grey, fis-subfissile, pt carb, med hd.

860-865 LS 90% bf, grey, mict, dns, est 3-6% intgr por, no visible shows.
SH 10% grey, greenish grey, fis-subfissile, pt carb, med hd.



865-870 LS 95% bf, grey, mict, tr vfg, dns, est 3-6% intgr por, no visible shows.

SH 5% grey, greenish grey, fis-subfissile, pt carb, med hd.

870-875 LS 100% bf, grey, mict, tr vfg, dns, est 3% intgr por, no visible shows.

SH MINOR grey, greenish grey, fis-subfissile, pt carb, med hd.

875-880 LS 80% bf, grey, mict, tr vfg, dns, est 3% intgr por, no visible shows.

SH 20% grey, greenish grey, fis-subfissile, med hd.

880-885 LS 90% bf, grey, mict, trs vfg, dns, est 3-6% intgr por, no visible shows.

SH 10% grey, greenish grey, fis-subfissile, med hd.

885-890 LS 95% bf, grey, mict, trs vfg, dns, tr dol, est 3-6% intgr por, no visible shows.

SH 05% grey, greenish grey, fis-subfissile, med hd.

890-895 LS 70% bf, grey, mict, tr vfg, dns, tr pyr, est 3-6% intgr por, no visible shows.

SH 30% grey, greenish grey, fis-subfissile, med hd.

895-900 LS 80% bf, grey, mict, trs vfg, dns, est 3-6% intgr por, no visible shows.

SH 80% grey, greenish grey, fis-subfissile, med hd.

900-905 LS 90% bf, grey, mict, trs vfg, dns, pt arg, est 3-6% intgr por, no visible shows.

SH 80% grey, greenish grey, fis-subfissile, pt carb, med hd.

905-910 LS 80% bf, grey, mict, trs vfg, dns, pt arg, est 3% intgr por, no visible shows.

SH 80% grey, greenish grey, fis-subfissile, pt carb, med hd.

910-915 LS 90% bf, grey, mict, trs vfg, dns, pt arg, est 3% intgr por, no visible shows.

SH 10% grey, greenish grey, fis-subfissile, pt carb, med hd.

915-920 LS 80% bf, grey, mict, trs vfg, dns, sl arg, est 3% intgr por, no visible shows.

SH 20% grey, greenish grey, fis-subfissile, pt carb, med hd.

920-925 SH 60% grey, greenish grey, fis-subfissile, pt carb, tr pyr, med hd.

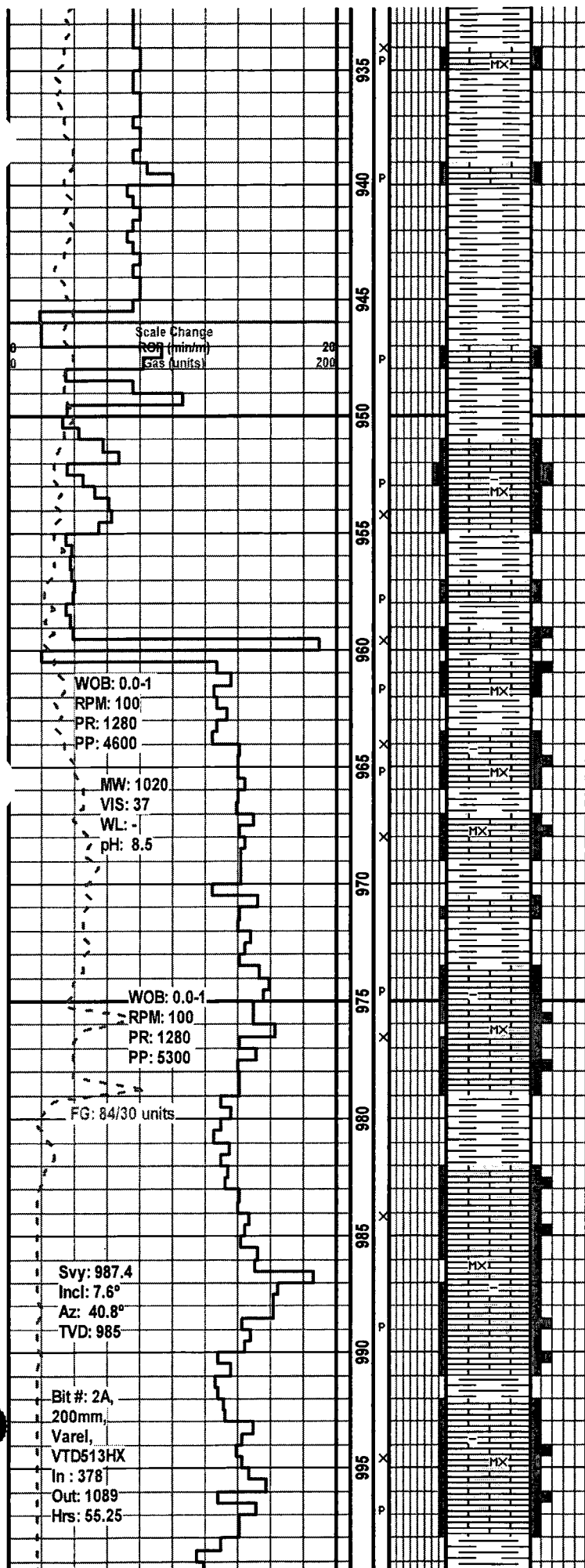
LS 40% bf, grey, mict, trs vfg, dns, sl arg, est 3% intgr por, no visible shows.

925-930 SH 70% grey, greenish grey, fis-subfissile, pt carb, med hd.

LS 30% bf, grey, mict, trs vfg, dns, sl arg, est 3% intgr por, no visible shows.

930-935 SH 80% grey, greenish grey, fis-subfissile, pt carb, med hd.

LS 20% bf, grey, mict, trs vfg, dns, sl arg, est 3% intgr por, no visible shows.



LS 20% bf, grey, mict, trs vfg, dns, sl arg, est 3% intgr por, no visible shows.

935-945 SH 95% grey, greenish grey, fis-subfissile, pt carb, med hd.

LS 05% grey, bf, mict, tr vfg, dns, sl arg, est 3% intgr por, no visible shows.

945-950 SH 60% grey, greenish grey, fis-subfissile, pt carb, med hd.

LS 40% grey, bf, mict, tr vfg, dns, sl arg, tr dissim pyr, est 3% intgr por, no visible shows.

950-955 LS 90% bf, grey, mict, trs vfg, dns, sl arg, est 3% intgr por, no visible shows.

SH 10% grey, greenish grey, fis-subfissile, pt carb, med hd.

955-960 SH 70% grey, greenish grey, fis-subfissile, pt carb, med hd.

LS 30% bf, grey, mict, trs vfg, dns, sl arg, est 3% intgr por, no visible shows.

960-965 SH 70% grey, greenish grey, fis-subfissile, pt carb, med hd.

LS 30% bf, grey, mict, trs vfg, pt dns, sl arg, est 3% intgr por, no visible shows.

965-970 SH 60% grey, greenish grey, fis-subfissile, pt carb, med hd.

LS 40% bf, grey, mict, trs vfg, pt dns, sl arg, est 3% intgr por, no visible shows.

970-975 LS 80% bf, grey, mict, trs vfg, pt dns, sl arg, est 3% pin point & intgr por, no visible shows.

SH 20% grey, greenish grey, fis-subfissile, pt carb, med hd.

975-980 LS 80% bf, grey, mict, trs vfg, pt dns, sl arg, est 3% pin point & intgr por, no visible shows.

SH 20% grey, greenish grey, fis-subfissile, pt carb, med hd.

980-985 LS 90% grey, bf, mict, trs vfg, pt dns, sl arg, est 3% pin point & intgr por, no visible shows.

SH 10% grey, fis-subfissile, pt carb, pt calc, med hd.

985-990 LS 20% grey, bf, mict, trs vfg, pt dns, arg, pt grdg-mrlst, est 3% pin point & intgr por, no visible shows.

SH 80% grey, fis-subfissile, mics, calc, med hd.

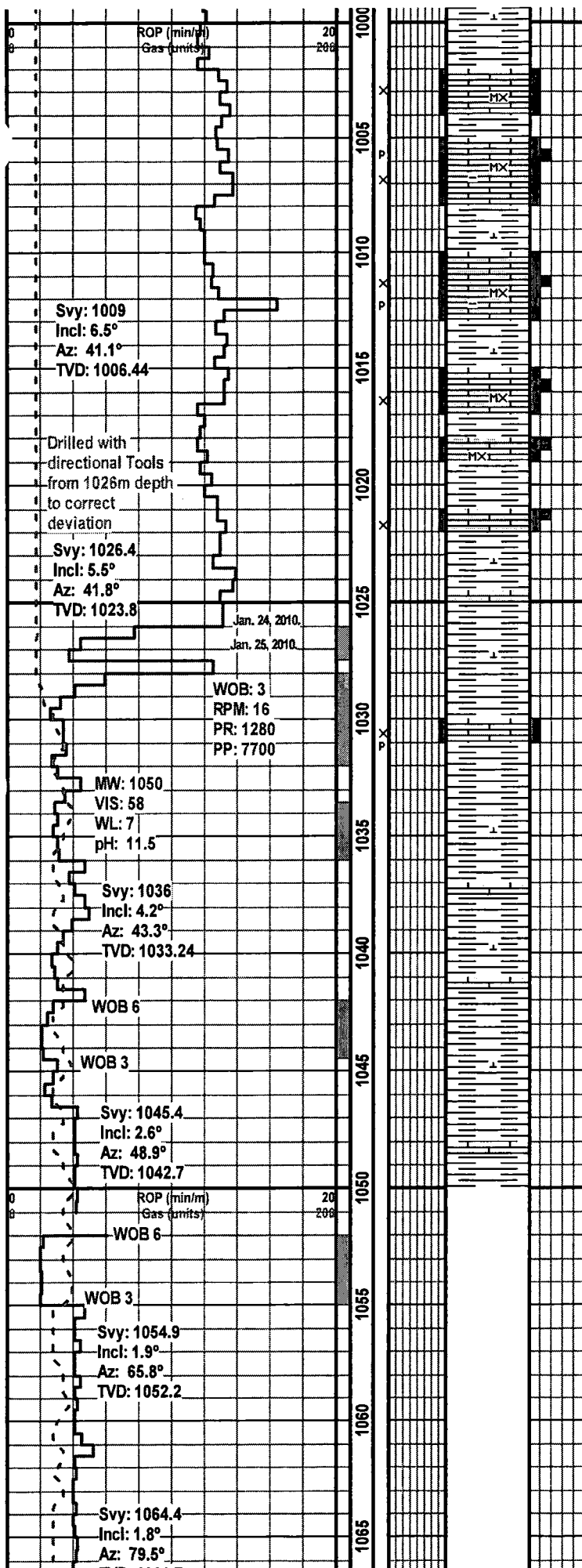
990-995 LS 90% grey, bf, mict, trs vfg, pt dns, arg, pt grdg-mrlst, est 3% pin point & intgr por, no visible shows.

SH 10% grey, fis-subfissile, mics, calc, med hd.

995-1000 LS 60% grey, bf, mict, trs vfg, pt dns, arg, pt grdg-mrlst, est 3% pin point & intgr por, no visible shows.

SH 40% grey, blk, fis-subfissile, mics, pt carb, pt calc, med hd.

TOP HAY RIVER MD 000- TVD 985.6 / 942.5- SS



TOP NAT RIVER MD 990m TVD 995.6 (-213.5m SS)

1000-1005 LS 40% grey, bf, mict, trs vfg, pt dns, pt arg, est 3% pin point & intgr por, no visible shows.

SH 60% grey, blk, fis-subfissile, mics, pt calc, med hd.

1005-1010 LS 80% grey, bf, mict-mnr vfg, pt dns, pt arg, est 3% pin point & intgr por, no visible shows.

SH 20% grey, blk, fis-subfissile, pt calc, med hd.

1010-1015 LS 80% grey, bf, mict-mnr vfg, pt dns, pt arg, tr dol, tr pyr, est 3% pin point & intgr por, no visible shows.

SH 20% grey, blk, fis-subfissile, pt calc, med hd. Poor Samples.

1015-1020 LS 85% grey, bf, mict-mnr vfg, pt dns, pt arg, tr dol, est 3% pin point & intgr por, no visible shows.

SH 15% grey, blk, fis-subfissile, pt calc, med hd.

1020-1026 SH 70% grey, blk, fis-subfissile, pt calc, med hd.

LS 30% grey, bf, mict-mnr vfg, pt dns, pt arg, tr dol, est 3% pin point & intgr por, no visible shows.

1026-1030 SH 90% grey, blk, fis-subfissile, tr pyr, pt calc, med hd.

LS 10% grey, bf, mict-pt vfg, pt arg, tr dol, est 3% pin point & intgr por, no visible shows.

1030-1035 SH 80% grey, blk, fis-subfissile, pt calc, med hd.

LS 20% grey, bf, mict-pt vfg, pt arg, est 3% pin point & intgr por, no visible shows.

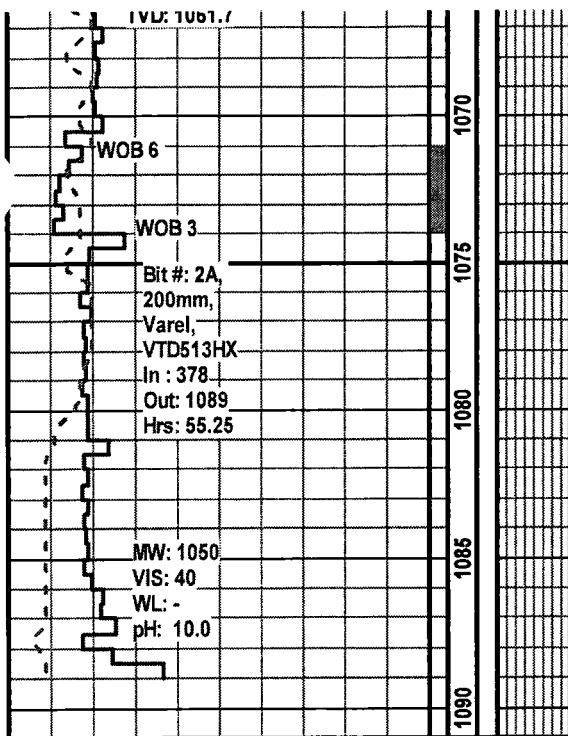
1035-1040 SH 90% grey, blk, fis-subfissile, pt calc, med hd.

LS 10% grey, bf, mict-pt vfg, pt arg, mnr sl dolc, tr pyretic, est 3% pin point & intgr por, no visible shows.

1040-1050 SH 95% grey, blk, fis-subfissile, pt calc & silc, med hd.

LS 05% grey, bf, mict-pt vfg, pt arg, mnr sl dolc, est 3% pin point & intgr por, no visible shows.

The well was drilled to 1089m, plugged back & side tracked from 1067m due to lost circulation problems.



467m due to lost circulation problems.

Please see stip log Part-B for side tracked main part from 467m to T.D.



Paramount
resources ltd.

Scale 1:240 (5"=100') Metric
Measured Depth Log

Well Name: Para et al Cameron M-74
Location: M 74 60 10 117 15
License Number: 1221
Spud Date: Jan. 17, 2010@0730hrs
Surface Coordinates: Lat 60 03 58.8 Long 117 29 56.8

Region: NWT Mainland
Drilling Completed: Feb. 10, 2010 @ 2200hr

Bottom Hole Same as surface
Coordinates:
Ground Elevation (m): 777.93 K.B. Elevation (m): 782.13
Logged Interval (m): Surface To: 1458 Total Depth (m): 1473m
Formation:
Type of Drilling Fluid: Polymer

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.co

OPERATOR

Company: Paramount Resources Ltd.
Address: 4700 Bankers Hall West
888 3rd Street S.W
Calgary, AB. Canada. T2P 5C5

GEOLOGIST

Name: Mashhood Chaudhry
Company: Moh & Associates Oilfield Consultants Ltd.
Address: 509 - 206 7th Avenue S.W.
Calgary, AB. Canada. T2P 0W7

Cores

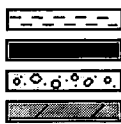
DSTs

Comments

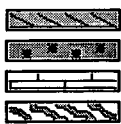
ROCK TYPES



Anhy
Bent
Brec
Cht



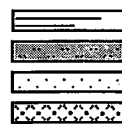
Clyst
Coal
Congl
Dol



Gyp
Igne
Lmst
Meta



Mrlst
Salt
Shale
Shcol



Shgy
Sltst
Ss
Till

ACCESSORIES

MINERAL

☒ Anhy
☒ Arggrn
☐ Arg
☐ Bent
☐ Bit
☐ Brecfrag
☐ 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

☐ Siltstrg
☐ 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

☐ Spotted
☐ Ques
☐ Dead

INTERVAL

☐ Core
☐ Dst

EVENT

☐ Rft
☐ Sidewall

OIL SHOW
☐ Even

Curve Track 1

(min/m)

Gas (units)

Gamma (API)

—

Slab Length
Depth
Porosity Type

Porosity

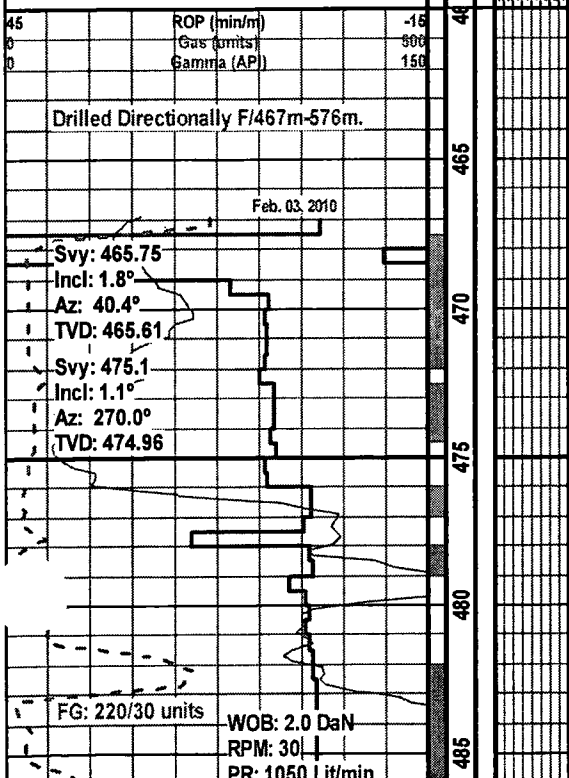
Lithology

Grain Size

Sorting
Rounding
Oil Shows

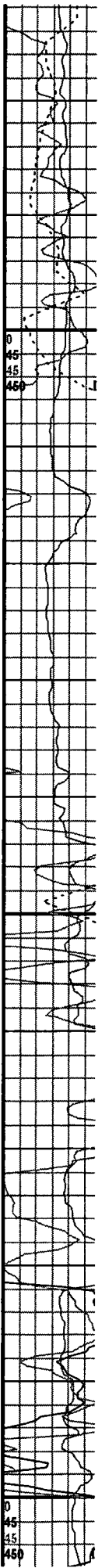
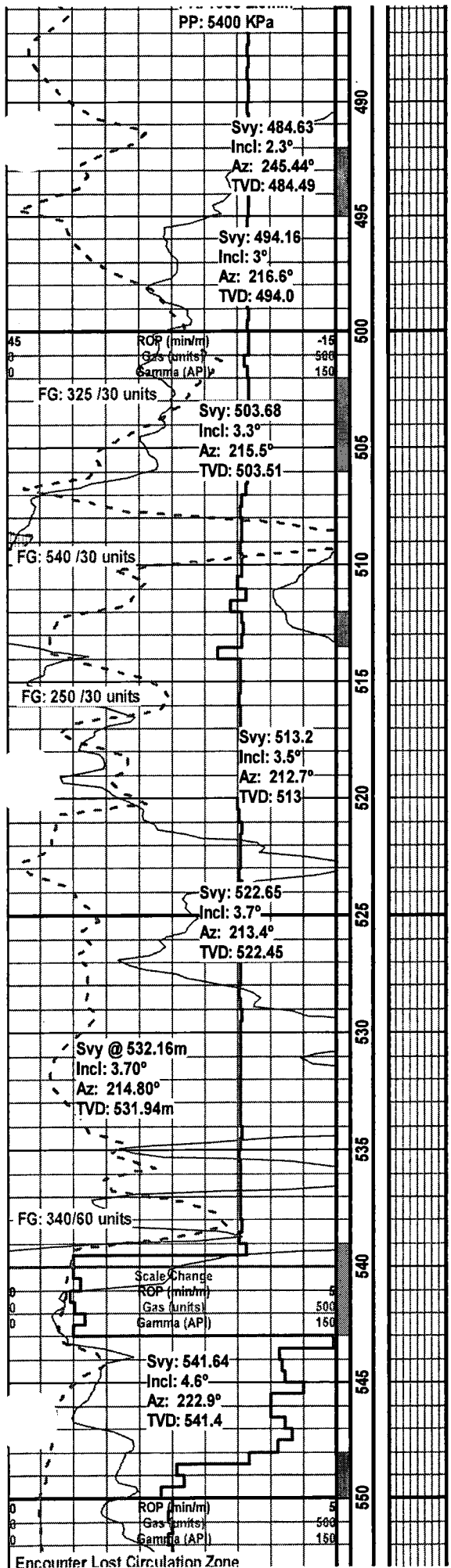
Geological Descriptions

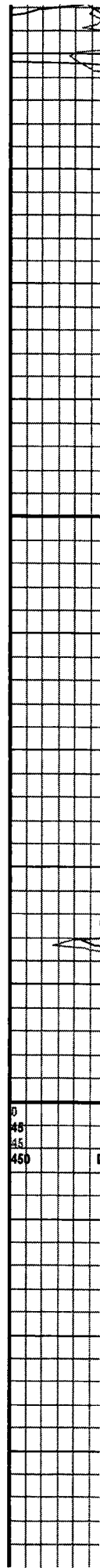
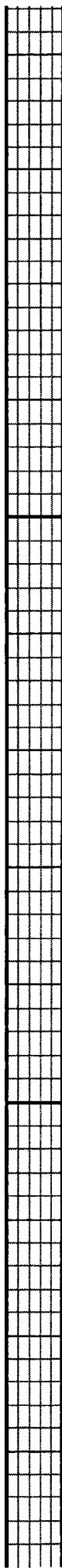
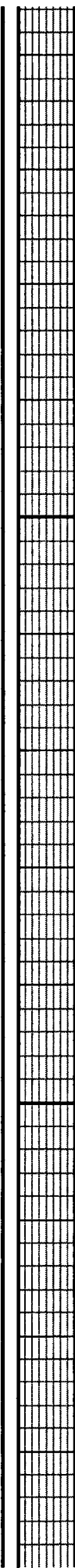
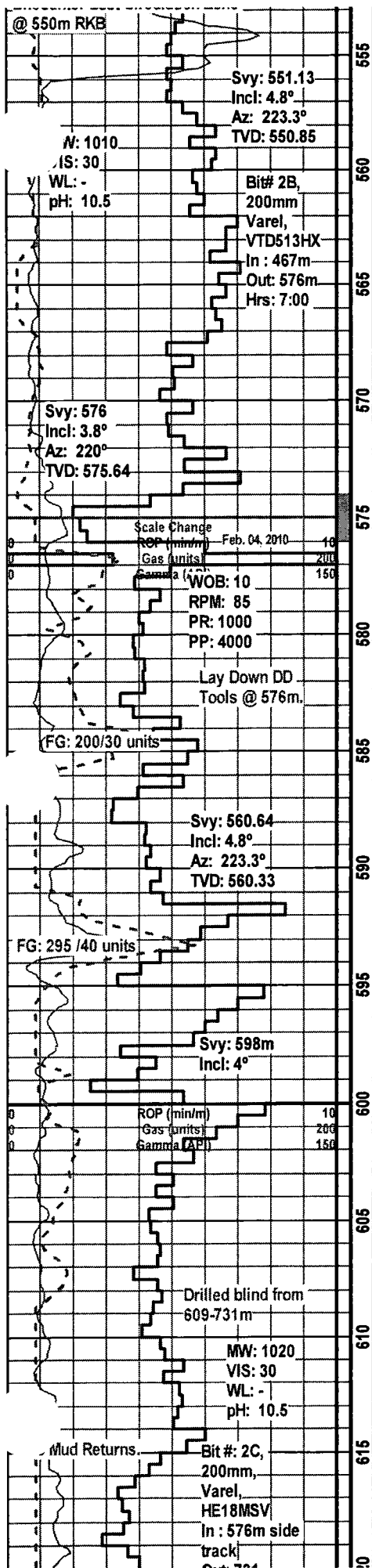
PeF (b/e)
 Neutron Pc
 Density Pc
 Density Cc

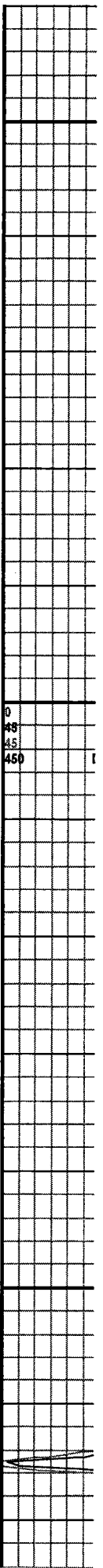
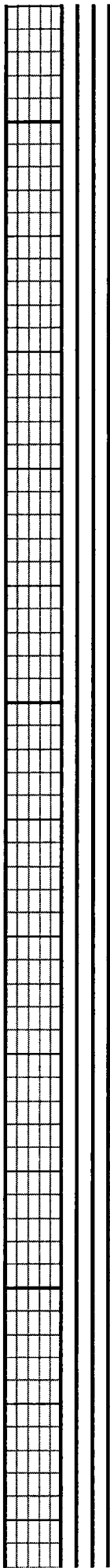
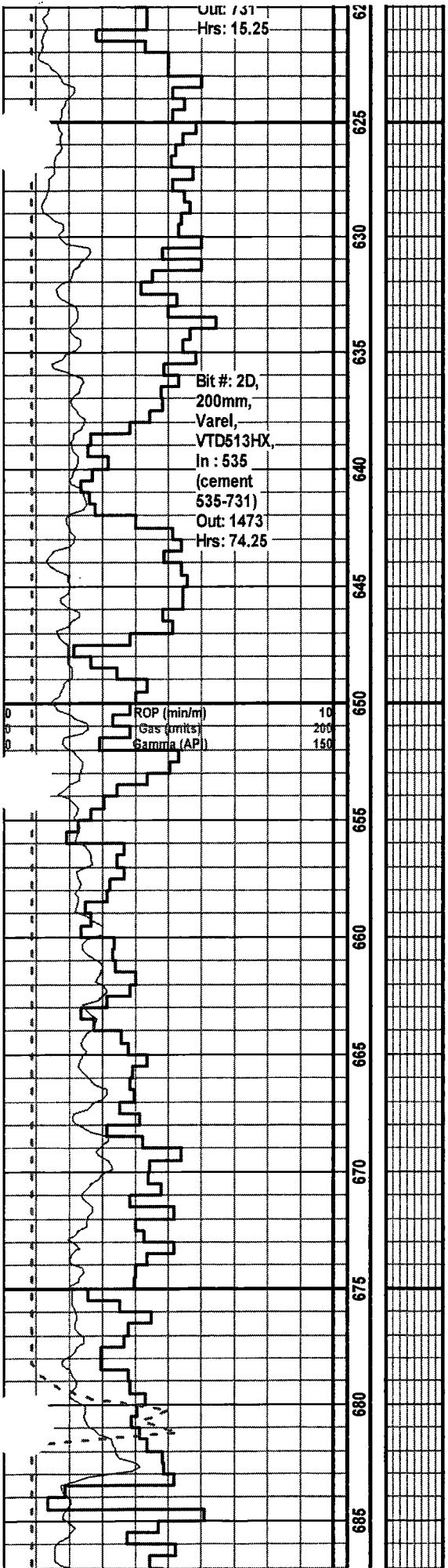


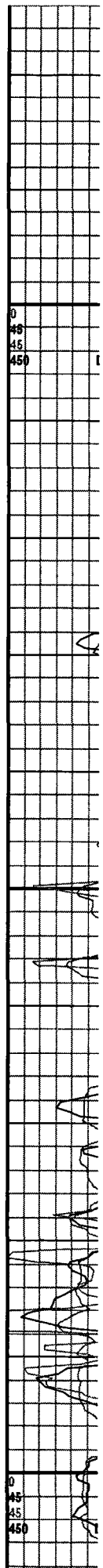
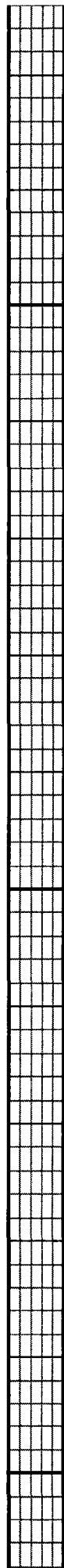
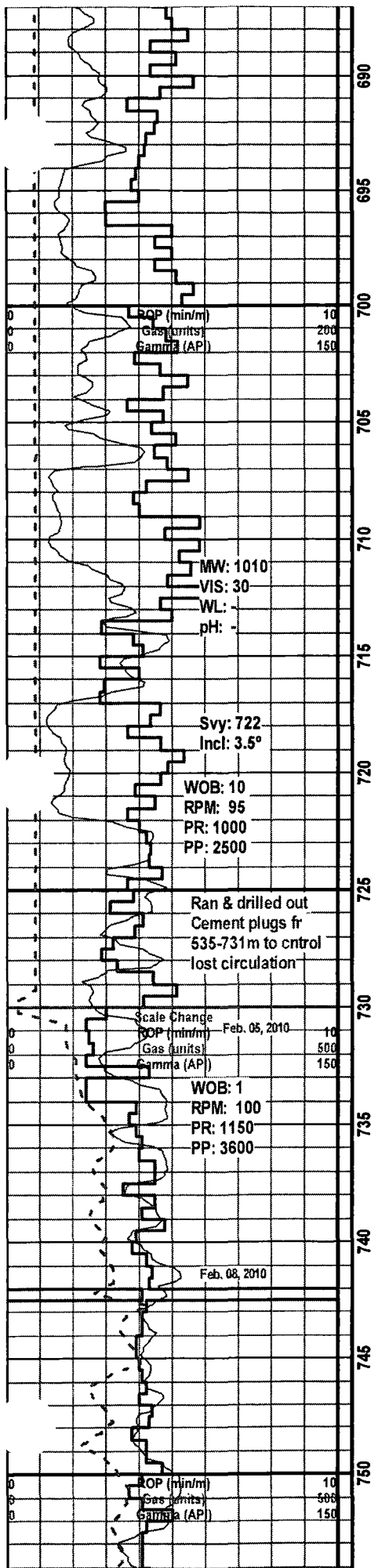
STRIP LOG PART- B
SIDE TRACK F/467.0m

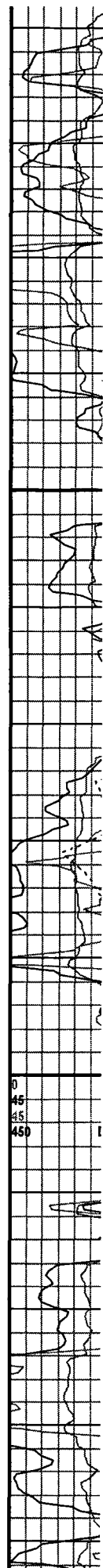
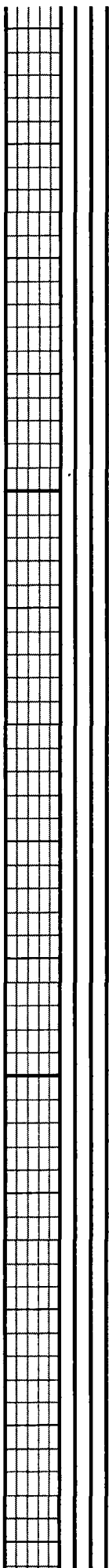
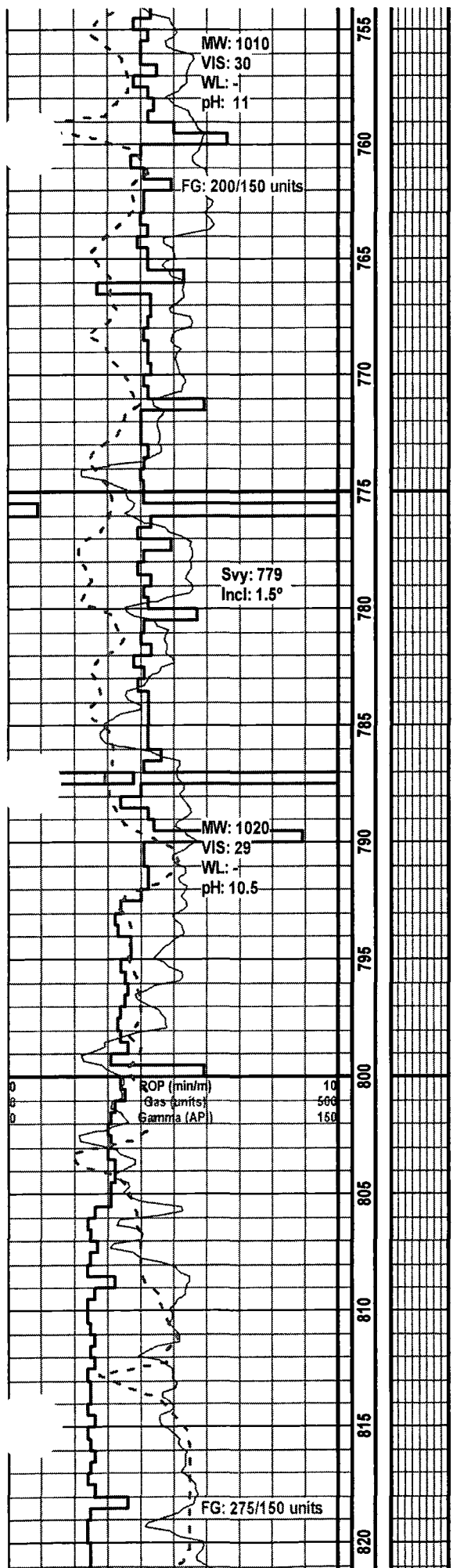


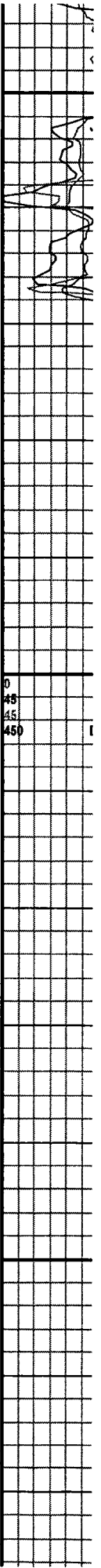
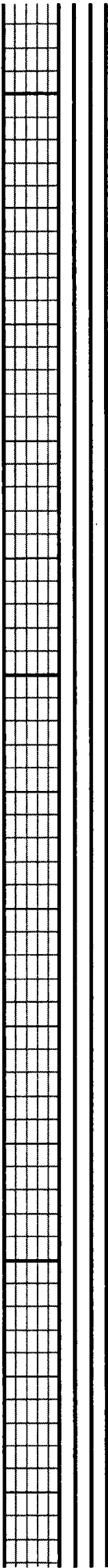
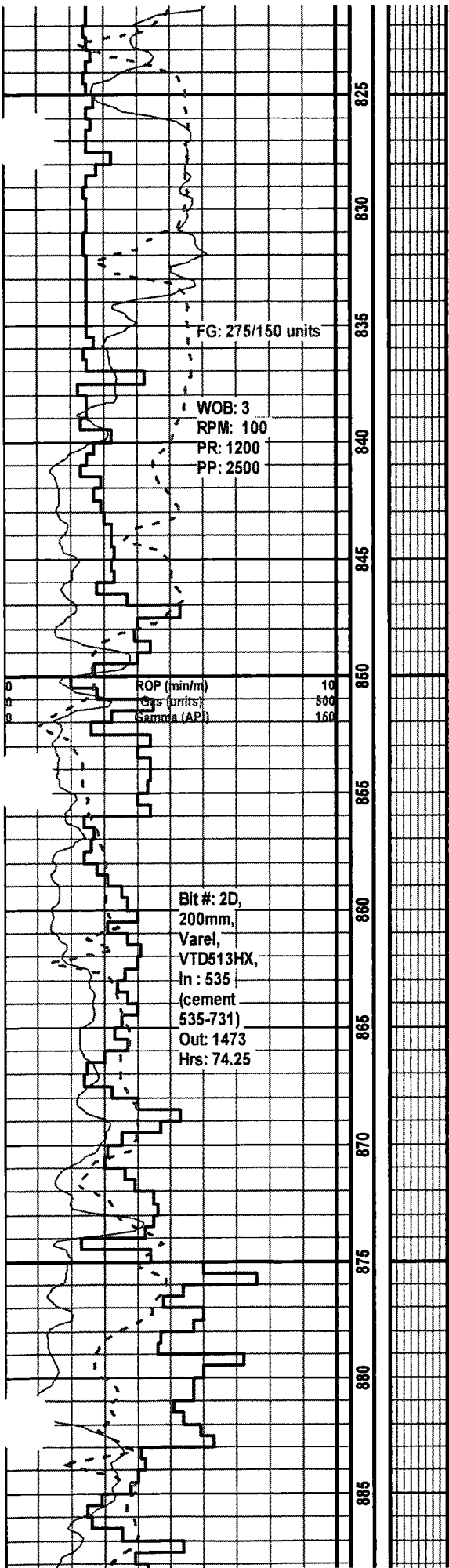


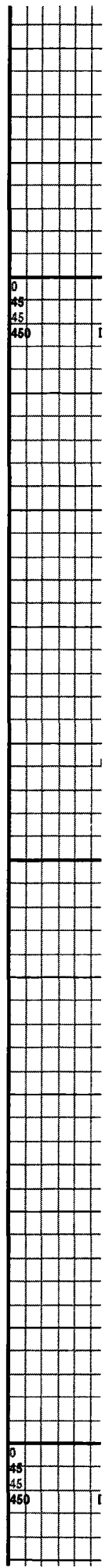
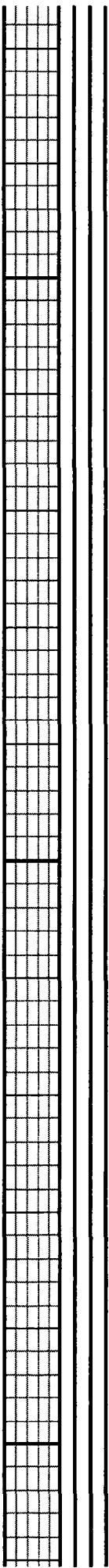
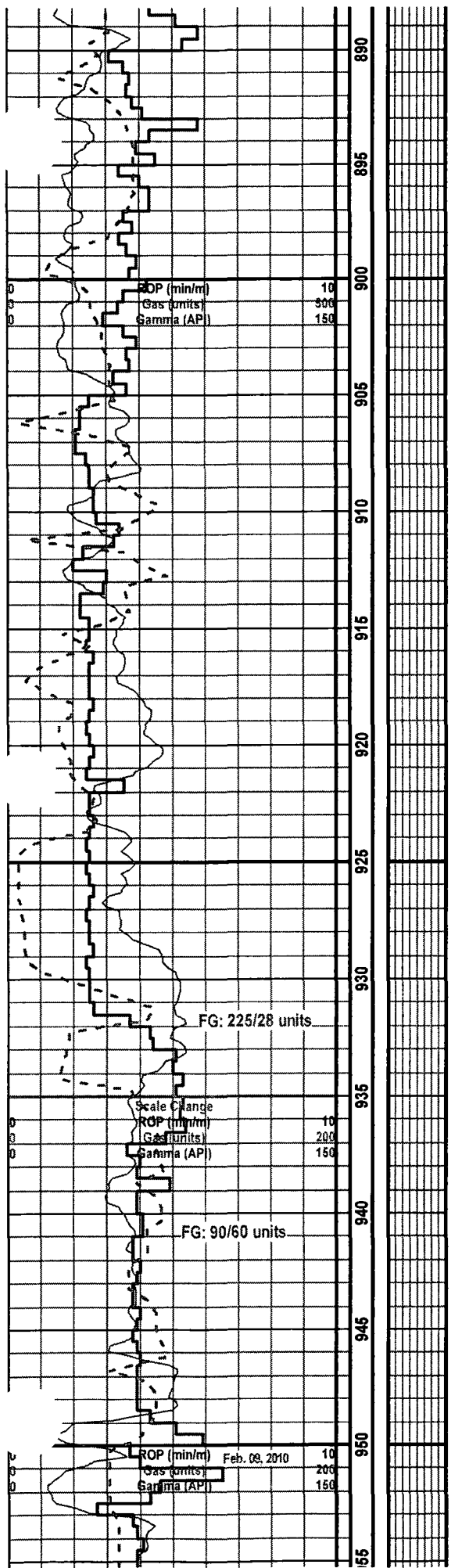


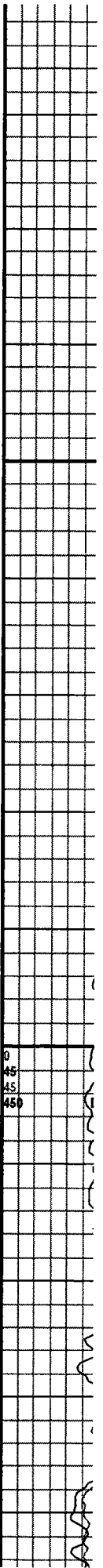
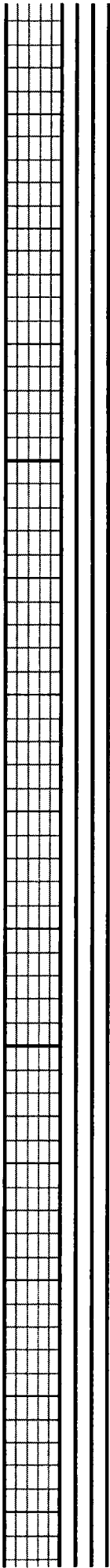
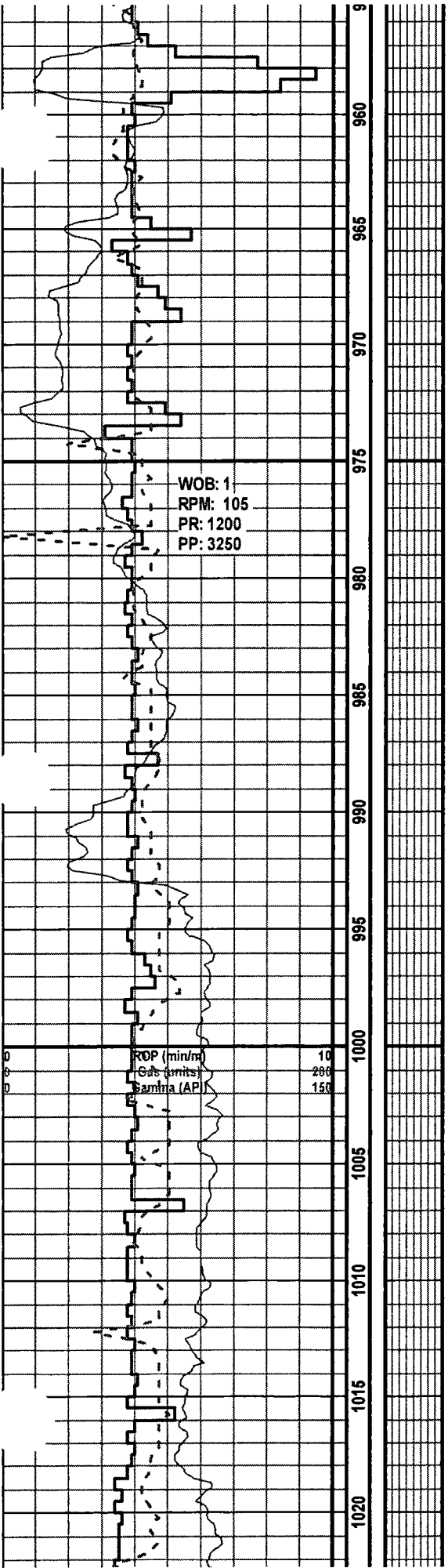


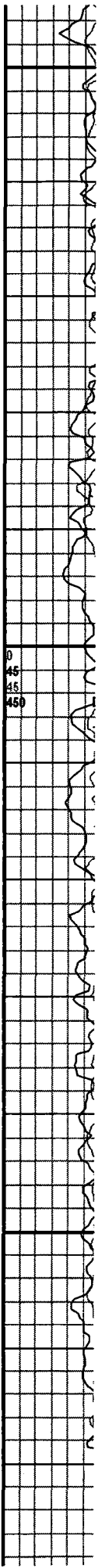
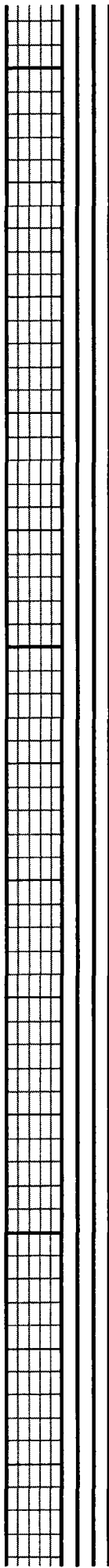
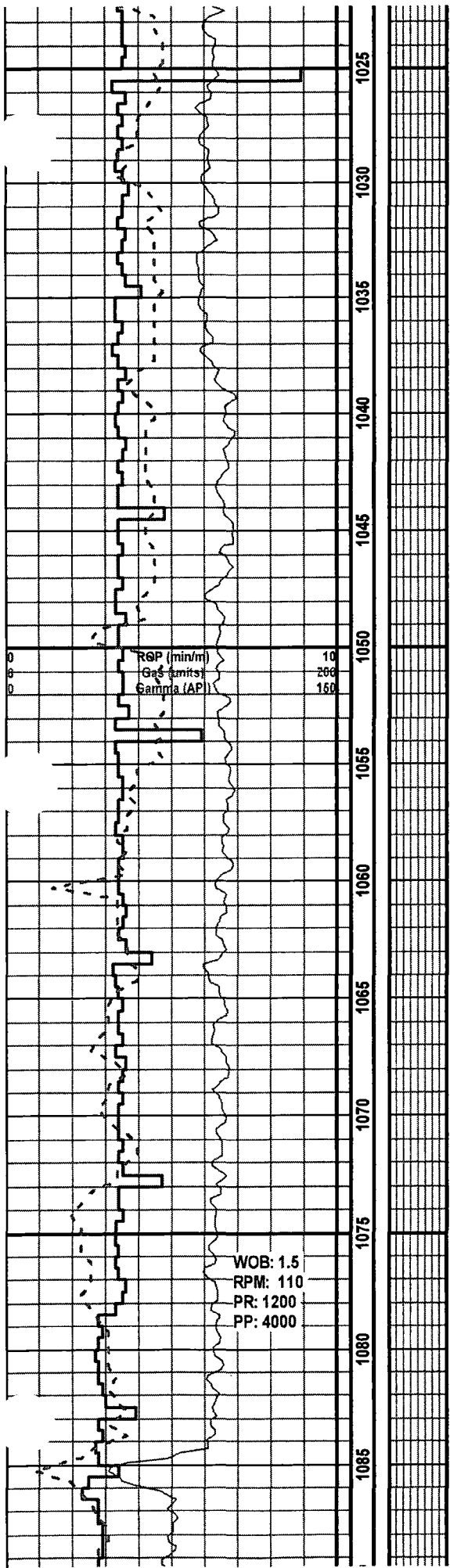


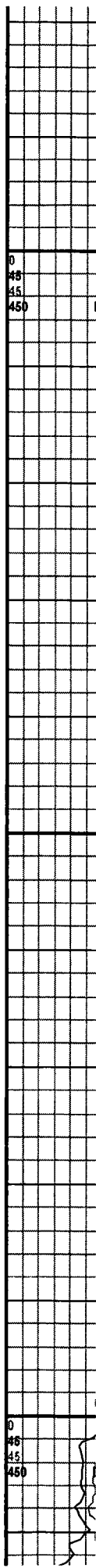
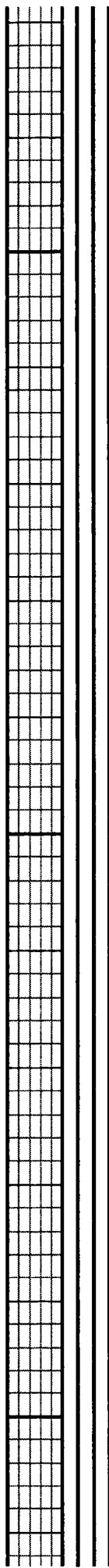
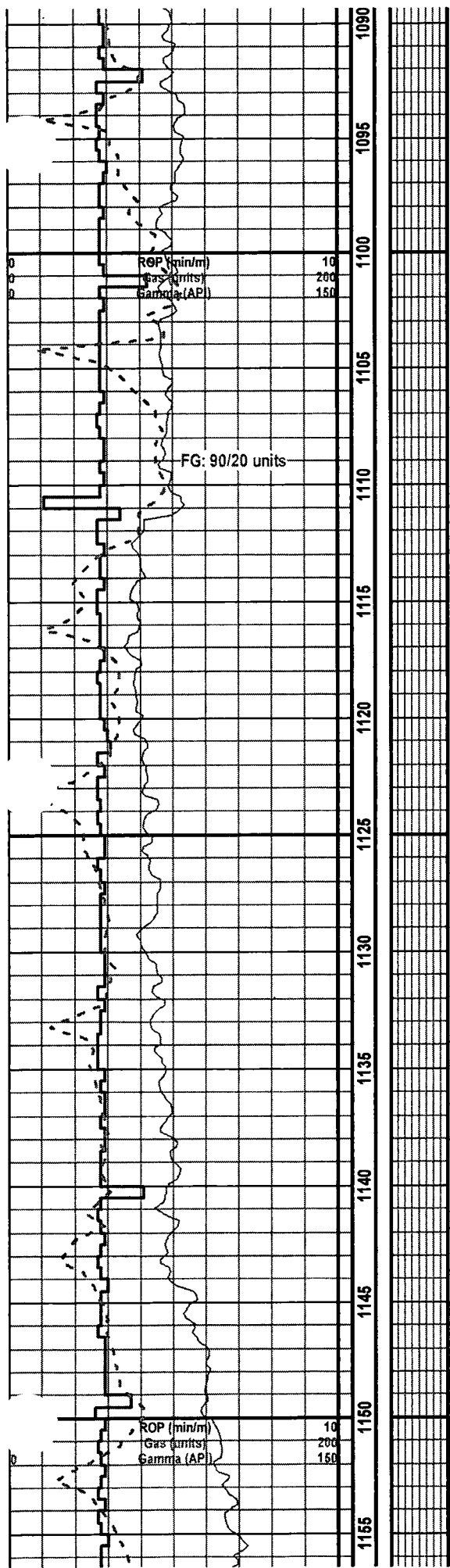


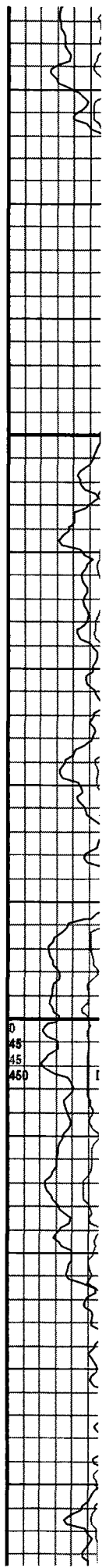
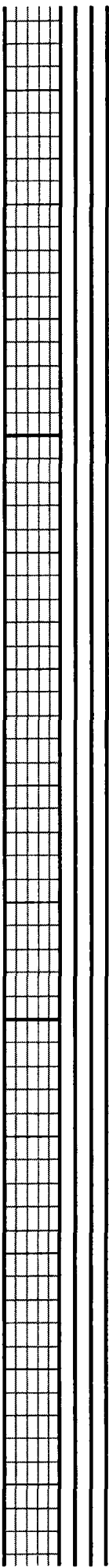
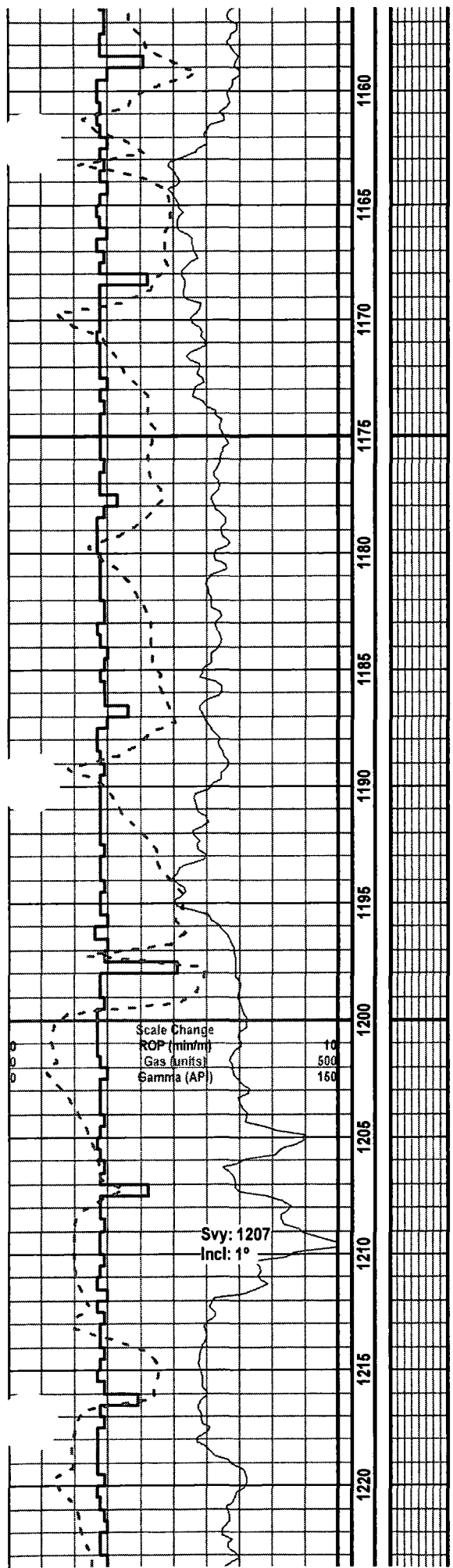


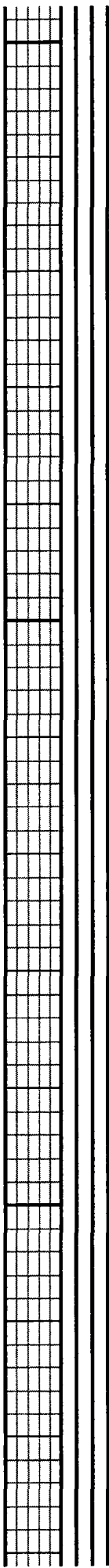
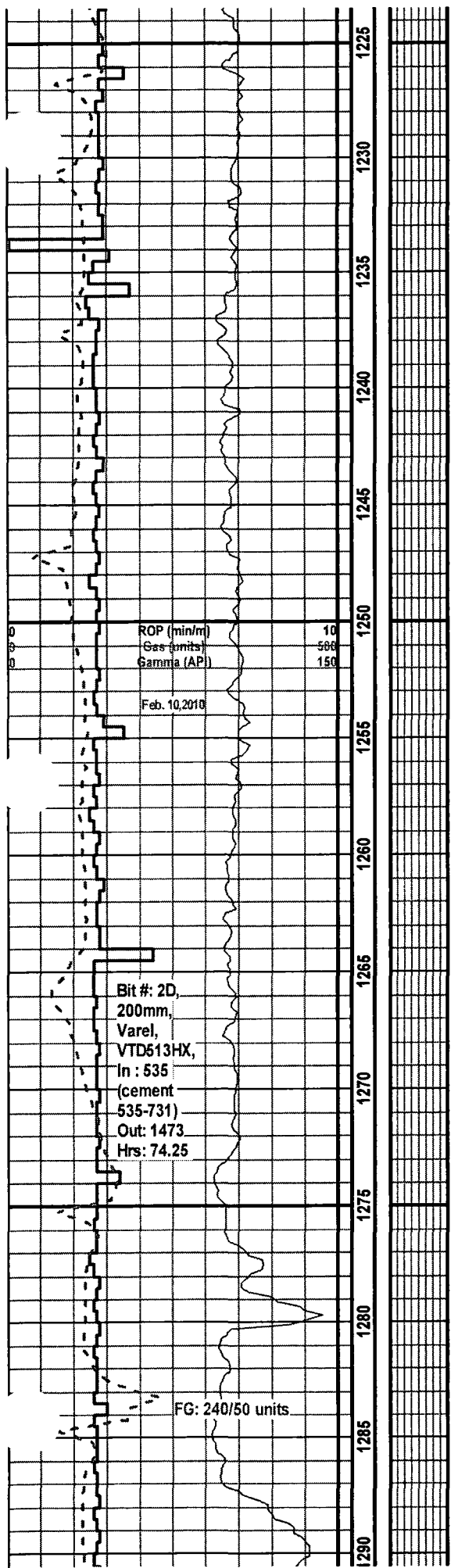






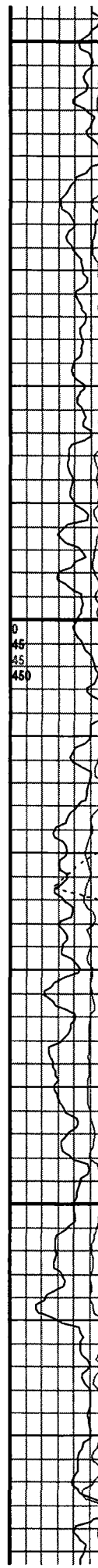


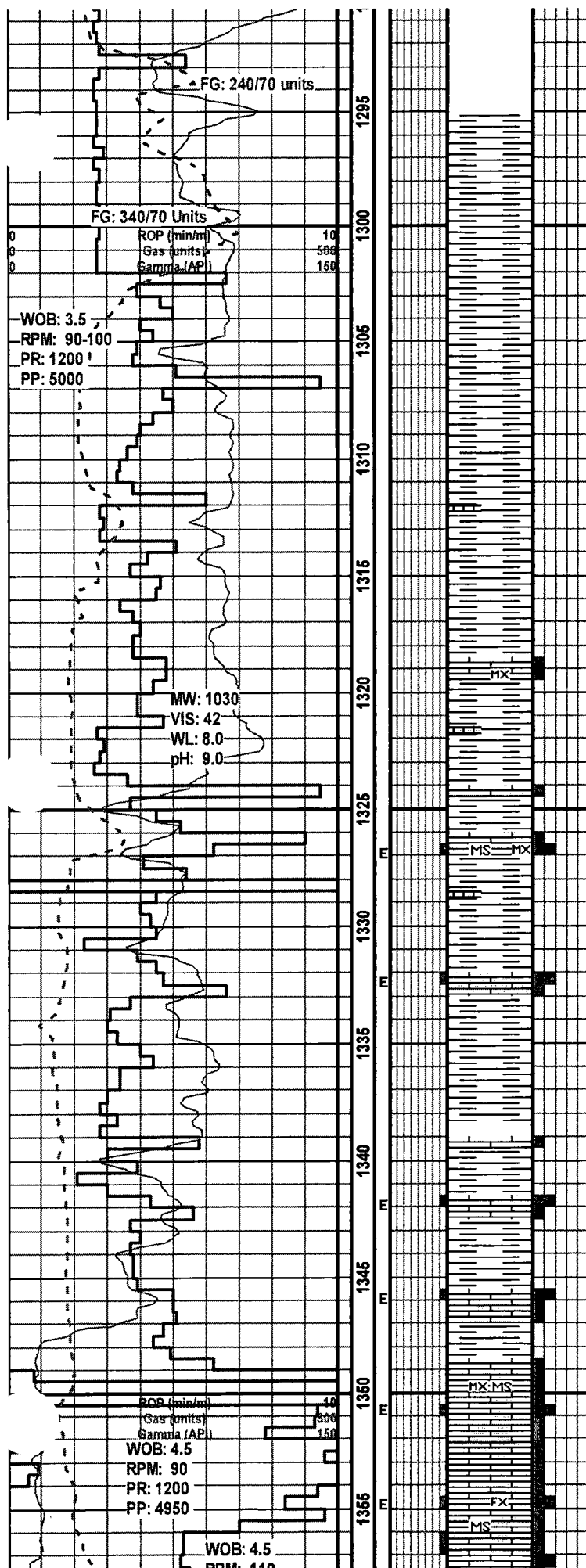




FOR SAMPLE DESCRIPTIONS FROM 790-1050m PLEASE SEE
 PART-A OF STRIP LOG

NO SAMPLES WERE COLLECTED FROM 1050m - 1065m DEPTH





NO SAMPLES WERE COLLECTED FROM 1295m-1295m DEPTH

FORMATION TOPS MARKED ARE AS PER SAMPLE & ROP

1295-1300 SH 100% dk brn blk, mnr grey, rough-wxy, med hd-hd, mics, grey sl slty, calc, tr pyr, fis-subfissile.

1300-1305 SH 100% dk brn, pt grey, rough-wxy, med hd-hd, mics, grey sl slty, calc, tr arg ls, fis-subfissile, dk brn gives cut.

1305-1310 SH 100% greenish grey, pt dk brn, rough-wxy, med hd-hd, mics, pt sl slty, calc, tr arg ls, fis-subfissile, tr spl, dk brn gives cut.

1310-1315 SH 100% greenish grey, pt dk brn, rough-wxy, med hd-hd, mics, pt sl slty, calc, fis-subfissile, tr spl, dk brn gives cut. MINOR LS lt grey, mudst, mict, lmpy, dns, microxl, tt, 0-3% rthy por, n/s.

1315-1320 SH 100% greenish grey, pt dk brn, rough-wxy, med hd-hd, mics, pt sl slty, calc, fis-subfissile, dk brn gives cut. TRACES LS lt grey, mudst, mict, lmpy, dns, microxl-crptxl, tt, 0-3% rthy por, n/s.

1320-1325 SH 100% greenish grey, pt blk brn, rough-wxy, med hd-hd, mics, pt slty, calc, tr pyr nod, fis-subfissile. TRACES LS aa.

TOP BEAVERHILL LAKE MD 1324m SS - 542

1325-1330 SH 100% greenish grey, pt blk brn, rough-wxy, med hd-hd, mics, pt slty, calc, mnr pyretic, tr pyr nod, fis-subfissile. LS MINOR-5% lt grey, bf, mudst, mict, lmpy, dns, crptxl-trace very fine crystalline, tt, 0-3% rthy por, n/s.

1330-1335 SH 95% grey, blk, mnr brn, rough-wxy, med hd-hd, mics, slty, calc, trs pyretic, fis-subfissile. LS 5% lt grey, bf, mudst, mict, lmpy, dns, cryptoroxln-tr vf xl, mnr sl arg, tr sl dolc, tr pyretic, tt, 0-3% rthy por, n/s.

1335-1340 SH 95% grey, blk, mnr brn, rough-wxy, med hd-hd, mics, pt slty, calc, trs pyretic, fis-subfissile. LS MINOR-5% lt grey, bf, mudst, mict, lmpy, dns, cryptoroxln-tr vf xl, mnr sl arg, tr sl dolc, tr pyretic, tt, 0-3% rthy por, n/s.

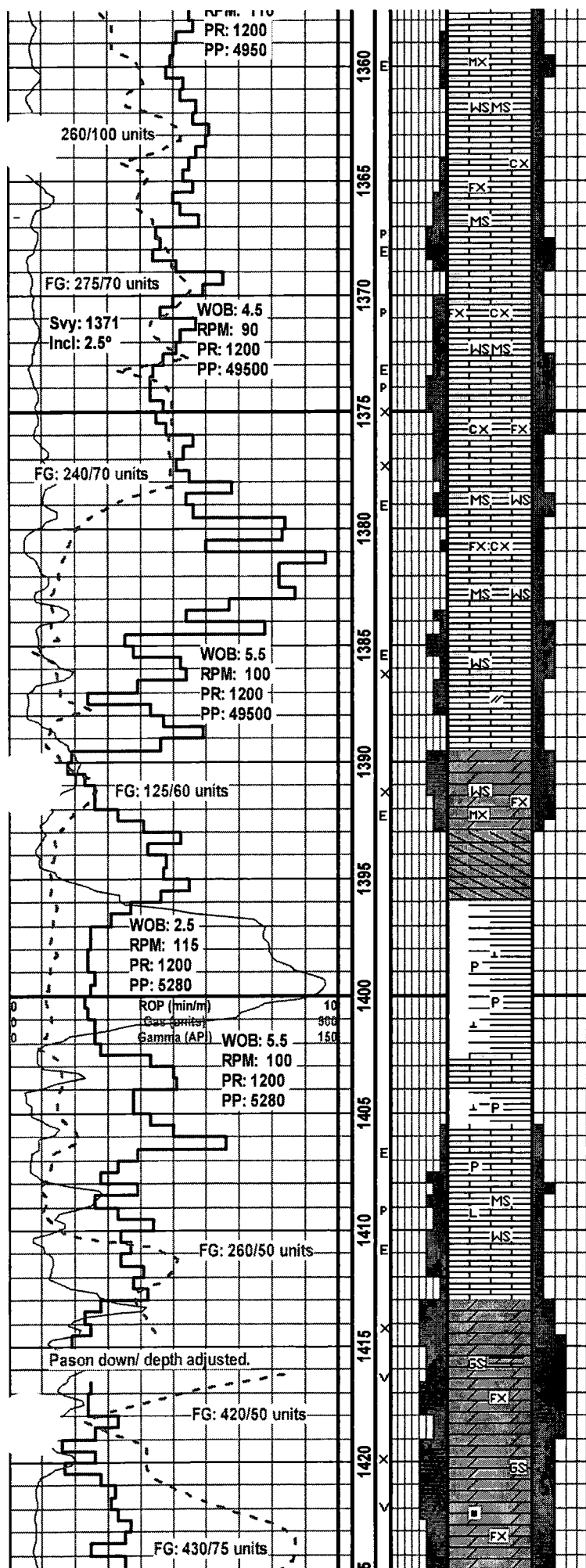
1340-1345 SH 95% grey, blk, mnr brn, rough-wxy, med hd-hd, mics, pt slty, calc, mnr sl dolc, trs pyretic, fis-subfissile. LS 5% lt grey, bf, mudst, mict, lmpy, dns, cryptocrystalline-tr vf xl, mnr sl arg, tr sl dolc, tr pyretic, tt, 0-3% rthy por, n/s.

TOP SLAVE POINT 1348.5M SS - 566.5m

1345-1350 SH 90% grey, blk, mnr brn, rough-wxy, med hd-hd, mics, pt slty, calc, pyretic, tr dol, fis-subfissile. LS 10% lt grey, bf, trs brn, mudst, mict, lmpy, dns, cryptoxln-tr vf xl, mnr sl arg, trs dolc, mnr pyretic, tt, 0-3% rthy por, n/s.

1350-1355 LS 100% brn, bf, mudst, lmpy, dns-lith, cryptoroxln-tr vf xl, tt, 0-3% rthy por, mky wh fr stng cut, gives petriferous odour.

1355-1360 LS 100% brn, bf, mudst, lmpy, dns, cryptoroxln-tr vf xl, tr



dolc, tt, 0-3% rthy por, mky wh g stmg cut, gives petriferous odour.

1360-1365 LS 100% bm, bf, mudst-wkst, lmpy, dns, cryptoroxln-mnr vf xl, tt, 0-3% rthy por, mky wh g stmg cut, gives petriferous odour.

1365-1370 LS 100% bm, bf, mudst, mict, lmpy, dns, cryptoroxln-mnr vf xl, trs pyretic, tt, est 3% rthy & pin point por, mky wh g stmg cut, gives petriferous odour.

1370-1375 LS 100% bm, bf, mudst-wakestone, mict, lmpy, dns, cryptoroxln-mnr vf xl, tr pyr nodule, tr dolc, tt, est 3% rthy & pin point por, mky wh fr stmg cut, gives petriferous odour.

1375-1380 LS 100% bm, bf, mudst-wakestone, mict, lmpy, dns, cryptoroxln-mnr vf xl, trs pyretic, tr dolc, tt, est 3-6% rthy & pin point por, mky wh g stmg cut, gives petriferous odour.

1380-1385 LS 100% bm, bf, mudst-wakestone, mict, lmpy, dns, cryptoroxln-mnr vf xl, trs pyretic & dolc, tr anhy, est 3-6% rthy & pin point por, no visible-p slow cut.

1385-1390 LS 100% bm, bf, mudst-wakestone, mict, lmpy, dns, cryptoroxln-mnr vf xl, trs pyretic, tr Anhy, tt, est 3-6% rthy & pin point por, mky wh g stmg cut. DOL MINOR dk bm, wakestone, microxln-vf xl, est 3-6% rthy & pin point por, mky wh g stmg cut.

TOP F-4 1389.5m SS - 607.5m

1390-1395 LS 80% bm, bf, mudst-wakestone, mict, lmpy, dns, cryptoroxln-mnr vf xl, trs pyretic, tt, est 3% rthy & pin point por, mky wh g stmg cut.

DOL 20% dk bm, wakestone, microxln-vf xl, est 3-6% rthy & intd por, p-fr slow cut.

MINOR ANHY wh, tan, hd, dns, dolc

TOP WATT MTN 1396m SS -614m

1395-1400 LS 70% aa

DOL 25% aa

MINOR ANHY wh, tan, hd, dns, dolc.

SH 5% gn, wxy-sily, med hd-hd, mics, calc, trs pyr nod, fis-biky.

1400-1405 SH 40% gn, wxy-sily, med hd-hd, mics, calc, pyretic, trs pyr nod, fis-biky. LS 60% bm, bf, mudst-wakestone, mict, lmpy, dns, cryptoroxln-mnr vf xl, trs pyretic, tt, est 3% rthy & pin point por, mky wh g stmg cut.

TOP SULPHUR PT. LS 1405.5m SS -623.5m

1405-1410 LS 80% bm, bf, mudst-wakestone, mict, lmpy, dns, cryptoroxln-trs vf xl, tt, est 0-3% rthy & pin point por, no visible shows. SH 20% aa.

TOP SULPHUR PT DOL 1413m SS -631

1410-1415 LS 95% bm, bf, mudst-wakestone, mict, lmpy, dns, cryptoroxln-trs vf xl, tt, est 0-3% rthy & pin point por, no visible shows. SH 05% aa. Traces Dol.

1415.0-1417.5 LS 90% aa.

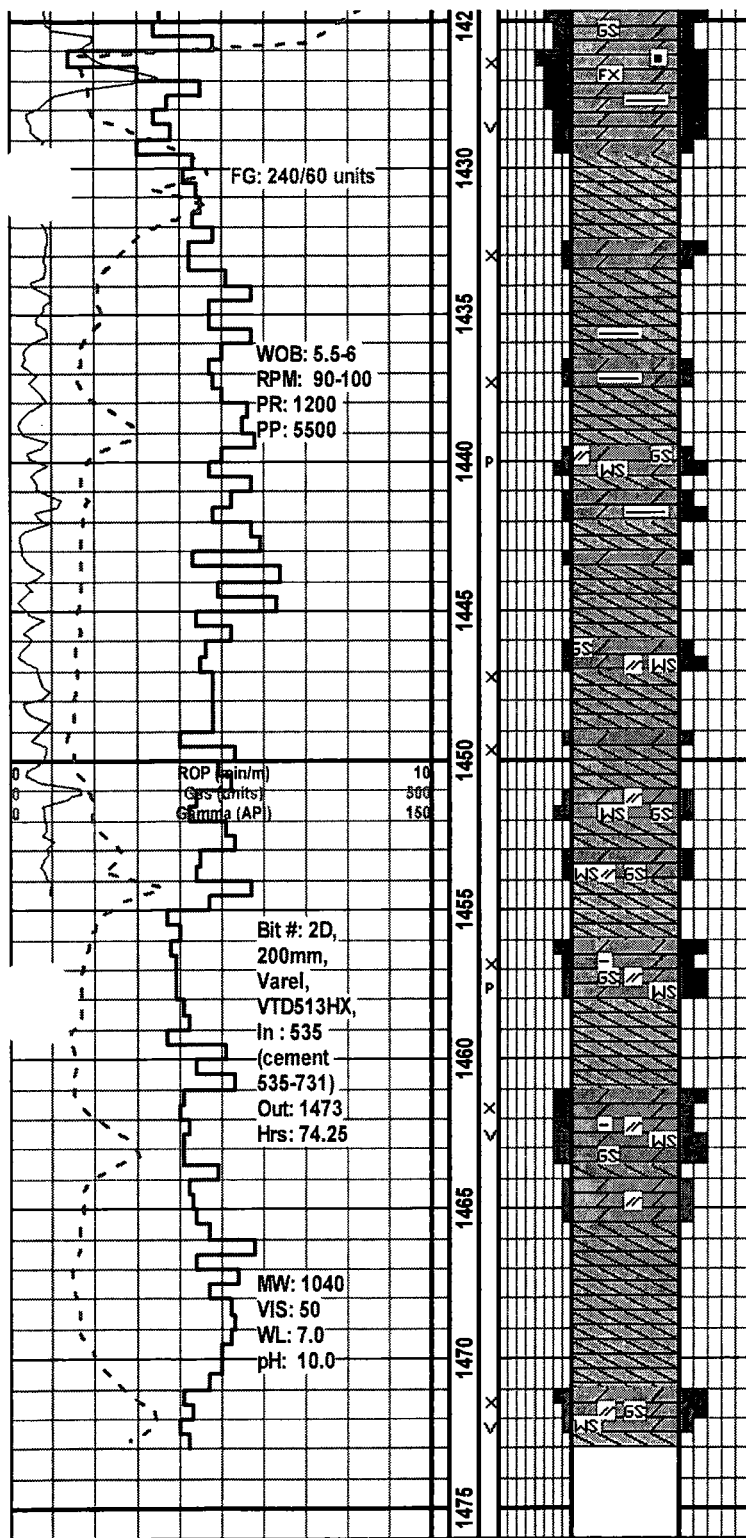
DOL 10% bm, gmst-wakestone, vf-mnr f xl, sl calc, est 9% pin point & intd por, scat bri yel flor, yel wh g stmg cut.

1417.5-1420.0 DOL 50% bm, gmst-wakestone, vf-f xl, est 9% pin point & intd por, scat yel flor, yel wh g fast stmg cut. LS 50% aa.

1420.0-1422.5 DOL 100% bm, gmst, vf-f xl, tr free xls, trs bit partings, est 6-9% intd & vugy por, bri yel flor, yel wh g fast stmg cut.

1422.5-1425.0 DOL 100% bm, gmst, vf-f xl, trs free xls, trs bit partings, est 6-9% intd & vugy por, scat bri yel flor, yel wh g fast stmg cut.

1425.0-1427.5 DOL 100% bm, gmst, vf-f xl, trs free xls, rexd @ places, trs bit partings & ls, est 3-6% intd & vugy por. scat bri yel flor. yel wh g fast stmg cut.



TOP MUSKEG 1429.5m SS -647.5m

1427.5-1430.0 DOL 100% bm, mnr dk bm, gmst, vf-f xl, trs free xls, rexdz com, trs bit partings & pyr, est 3-6% intxl & vugy por, yel wh fr stmg cut.

1430.0-1432.5 DOL 100% bm, tr dk bm, gmst, vf-f xl, trs free xls, abnt bituminous blk sh, est 6% intxl & vugy por, no visible-v p slow cut. Trace Anhy.

1432.5-1435.0 DOL 100% bm, dk bm, gmst, vf-f xl, est 6% intxl & vugy por, yel wh fr stmg cut. MINOR ANHY crm, wh, off wh, dns, crptxl, hd.

1435.0-1437.5 DOL 90% bm, dk bm, gmst, vf-f xl, est 6% intxl & vugy por, yel wh fr stmg cut. ANHY 10% crm, wh, off wh, dns, crptxl, hd.

1437.5-1440.0 DOL 90% bm, dk bm, gmst, vf-f xl, abnt bitumin & sh, est 3-6% intxl & vugy por, no visible cut. ANHY 10% crm, wh, off wh, dns, crptxl, hd.

1440-1445 DOL 80% bm, dk bm, gmst, vf-f xl, abnt bitumin & sh, est 3-6% intxl & vugy por, no visible-p cut. ANHY 20% crm, wh, off wh, dns, crptxl, hd.

1445-1450 ANHY 40% crm, wh, off wh, dns, crptxl, hd. DOL 40% aa, gives yel wh fr stmg cut. SH 20% gn grey, blk, rough, med hd-hd, calc, blk-y-split.

1450-1455 ANHY 80% crm, wh, off wh, dns, crptxl, hd. DOL 20% aa, gives yel wh fr slow cut. SH MINOR aa.

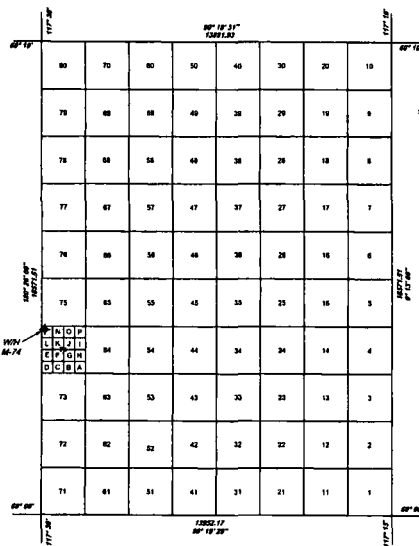
1455-1460 ANHY 90% crm, wh, off wh, dns, crptxl, hd. DOL 10% bm, dk bm, gmst-mnr wakestone, vf-f xl, est 3-6% intxl & pp por, yel wh fr slow stmg cut.

1460-1465 ANHY 95% crm, wh, off wh, dns, crptxl, hd. DOL 10% aa.

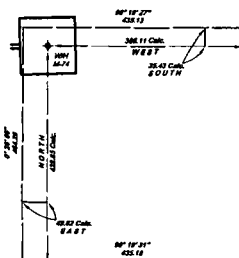
1465-1470 ANHY 90% crm, wh, off wh, dns, crptxl, hd. DOL 10% bm, dk bm, gmst-mnr wakestone, vf-f xl, est 6% intxl & pp por, yel wh no visible-slow cut.

1470-1473 ANHY 40% crm, wh, off wh, dns, crptxl, hd. DOL 60% aa.

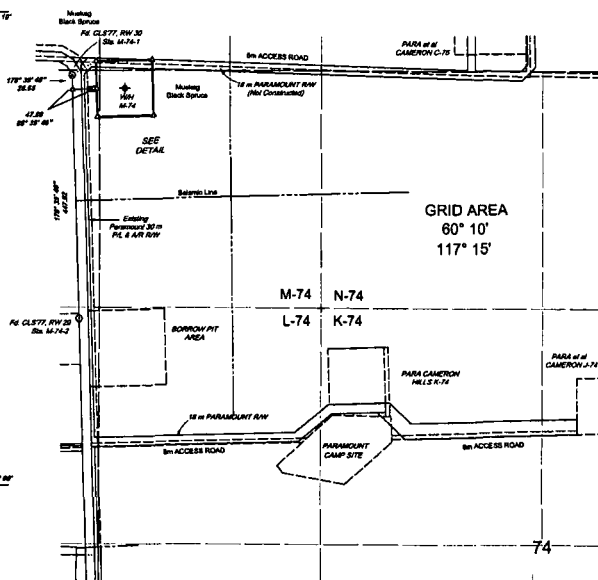
TD 1473m (SS - 691m) REACHED ON FEBRUARY 10, 2010 @ 2200 HRS.



GRID AREA 60° 10', 117° 15'
SCALE 1:100,000

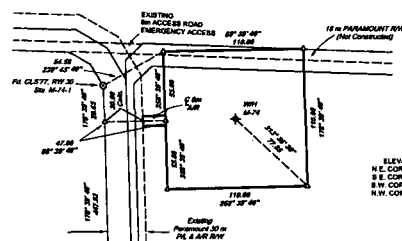


UNIT M-74 NAD'27
SCALE 1:50,000



W/S DETAIL NAD'83
SCALE 1:50,000

AREA REQ'D WITHIN
WELL SITE = 1.21 ha
ACCESS ROAD = 0.014 ha
TOTAL = 1.224 ha



W/S DETAIL NAD'83
SCALE 1:50,000

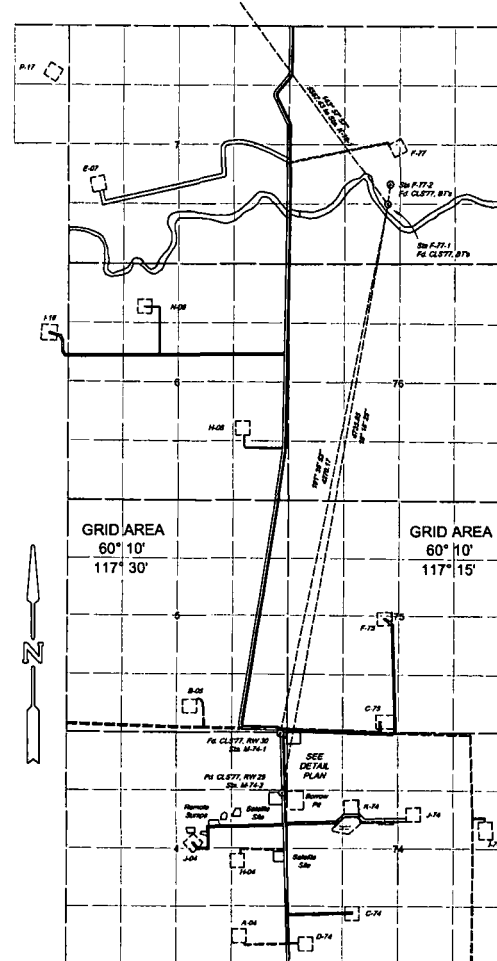
GEOGRAPHIC AND UTM COORDINATES - NAD '27

STATION	LATITUDE (N)	LONGITUDE (W)	NORTHING	EASTING
GRID AREA 60° 10', 117° 15'				
N.E.	60° 10' 00.000"	117° 15' 00.000"	888732.734	486125.238
N.W.	60° 10' 00.000"	117° 30' 00.000"	888871.589	472255.652
S.W.	60° 00' 00.000"	117° 30' 00.000"	865110.618	472118.252
S.E.	60° 00' 00.000"	117° 15' 00.000"	865120.874	488066.080
UNIT M-74				
N.E.	60° 00' 00.000"	117° 30' 31.872"	865872.17	472891.31
N.W.	60° 00' 00.000"	117° 30' 58.898"	865873.83	472188.41
S.W.	60° 00' 45.802"	117° 30' 58.898"	865873.83	472188.41
S.E.	60° 00' 45.802"	117° 30' 31.872"	865873.83	472891.31
STATION 10-1				
N.E.	60° 00' 38.854"	117° 32' 44.337"	865148.02	469886.28
N.W.	60° 00' 38.854"	117° 29' 54.527"	865886.34	472115.14

GEOGRAPHIC AND UTM COORDINATES - NAD '83

STATION	LATITUDE (N)	LONGITUDE (W)	NORTHING	EASTING	ELEVATION
GRID AREA 60° 10', 117° 15'					
N.E.	60° 00' 40.000"	117° 32' 45.458"	888724.42	488818.88	728.28
N.W.	60° 00' 40.000"	117° 30' 18.111"	888124.51	472892.45	722.34
S.W.	60° 00' 40.000"	117° 30' 18.111"	865279.21	472913.81	753.35
S.E.	60° 00' 40.000"	117° 32' 45.458"	865279.21	472913.81	753.35
UNIT M-74					
N.E.	60° 00' 00.000"	117° 30' 58.898"	865873.83	472891.31	778.98
N.W.	60° 00' 00.000"	117° 30' 58.898"	865873.83	472891.31	778.98
S.W.	60° 00' 45.802"	117° 30' 58.898"	865873.83	472891.31	778.98
S.E.	60° 00' 45.802"	117° 30' 31.872"	865873.83	472891.31	778.98

WELL SITE COORDINATES SHOWN ARE BASED ON PD, CLST7 POST
STA. 10-1. W/S PLAN. CLST. BY GREG ROODS. CLS
HELD FOR VERTICAL AND HORIZONTAL CONTROL.
USE RETURN TRAVERSE FOR COMPARISON.
FINAL COORDINATES WERE CALCULATED IN NAD'83 (Original datum)
NAD'27 USING AN ITIONAL TRANSFORMATION VERSION 2 PROGRAM



ACCESS SKETCH AND
LOCATION TRAVERSE NAD'83
SCALE 1:70,000

RETURN TRAVERSE NAD'83
SCALE 1:100,000

Plan and Field Notes
of (As Built) Survey of
PRODUCTION WELL
PARA ET AL CAMERON M-74
within UNIT M, SECTION 74
GRID AREA 60° 10', 117° 15'
NORTHWEST TERRITORIES
CANADA OIL AND GAS REGULATIONS
PRODUCTION LICENCE NO. PLR013

THIS SURVEY WAS EXECUTED BETWEEN THE
DATES OF OCTOBER 14TH, 2009 TO MARCH 20TH, 2010
BY GREG ROODS, CLS

CERTIFIED CORRECT AND COMPLETED MAY 27, 2010

Greg Roods
GREG ROODS
CANADA LANDS SURVEYOR



Surveyed for
PARAMOUNT RESOURCES LTD.

SCALE= 1:5000
DATE: JUNE 02, 2010

UNIVERSAL
SURVEYS INC.
SIT: 1216, 1216-1216-1216-1216

UNIVERSAL
JULY 1984
PLAN NO. 091801.01
REVISION NO. A



MAILING ADDRESS:
11301 - 91 AVENUE
GRANDE PRAIRIE, AB T8V 5Z3
TELEPHONE (780) 538-3911
FAX (780) 532-1155

FIELD TICKET

12557

BILL TO: Paramount

DATE: JAN 9, 2010

ORDERED BY: Bernie

SIGNED BY: B. M. S.

LOCATION	DRILLING RIG	OIL COMPANY	P.O. NO.
M74/60-10-117-15	Precision	436	

DRILLING AND DRIVING

	SIZE	REMARKS	UNIT PRICE	AMOUNT
CONDUCTOR		24" X 40'		BID
RAT & MOUSE		20" X 20' MOUSE 20" X 32' RAT		BID
CELLAR		3' X 6'		BID
AIR HAMMER				
		0' to 2' Snow Fill		
		2' to 8' Muskeg		
		8' to 40' Good Clay, Rock, No water		

TRAVEL

DRILL UNIT	592	448	KM		BID
SERVICE UNIT	311	448	KM		BID
AIR HAMMER					

MATERIALS

CONDUCTOR PIPE	16" X 40'		BID
LINER			
CEMENT	40 BAGS PORTLAND		BID
CRIB	3' X 6'		BID
DRAINLINE			
TEETH			
POINTS	71-74 LEASE		
WELDER			
	094010005		
	BERNIE GELETH		
	Ricky Kapitanowicz		
	BP Price		6500.00

DRILLER DOUG
SWAMPER Honey
UNIT 592 & 311

SUB-TOTAL	6500.00
G.S.T.	325.00
TOTAL	6825.00

G.S.T. #R138086384



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/13/2010

Report #: 1.0

Depth Progress:

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 275,813

Cum Cost to Date: 275,813

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: -3.48 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB)	Depth End (mKB)	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather	Temperature (°C)	Lease Condition
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Operation at 6am

Wait on daylight

Operations Summary

Moved light loads into location. Heavy loads at Indian cabins.

Operations Next Report Period

Continue rig move and rig up on M-74

Remarks

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title	Job Contact	Phone Mobile
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TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
08:00	20:00	12.00	12.00	RIGUP & TEARDOWN	Waited on trucks to arrive with lights loads. Pd rig crew arrived at camp at 19:00 hr

MUD CHECKS

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

Description	Cost (/unit)	Consumed
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MUD PUMPS

Pump Number	Rod Diameter (mm)	Pump Rating (kW)
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1

152.4

800.0

Pressure (kPa)	Slow Speed Check?	Strokes (spm)	Volumetric Efficiency (%)
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No

Pump Number	Rod Diameter (mm)	Pump Rating (kW)
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2

152.4

800.0

Pressure (kPa)	Slow Speed Check?	Strokes (spm)	Volumetric Efficiency (%)
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No

BIT SUMMARY

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

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

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

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/13/2010

Report #: 1.0

Depth Progress:

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 275,813

Cum Cost to Date: 275,813

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: -3.48 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

SAFETY CHECKS

Date	Type	Description
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SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

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

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Muskeg Fm		
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/14/2010

Report #: 2.0

Depth Progress:

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 39,798

Cum Cost to Date: 315,611

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: -2.31 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB)	Depth End (mKB)	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather OVERCAST	Temperature (°C) -15	Lease Condition
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Operation at 6am

Operations Summary

Operations Next Report Period

Remarks

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	08:00	8.00	8.00	Rig up	RIG UP ON NEW LOCATION(WORK DAYLIGHTS)
08:00	08:45	0.75	8.75	Safety meeting	SAFETY MEETING / PARAMOUNT ORIENTATION
08:45	20:00	11.25	20.00	Rig up	RIG UP, SPOT MATTING , BUILDINGS, SHACKS
20:00	00:00	4.00	24.00	Rig up	RIG UP ON NEW LOCATION(WORK DAYLIGHTS)

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 Cost	Mud Cum To Date		
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
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MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Volumetric Efficiency (%)		
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	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 (hrs)	BHA ROP (m/hr)	IADC Bit Dull

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/14/2010

Report #: 2.0

Depth Progress:

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 39,798

Cum Cost to Date: 315,611

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: -2.31 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description

SAFETY INCIDENTS

Date	Comment	Type
1/14/2010	Mullen rigger caught index finger between sling and roll.	Near Miss

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (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)
Muskeg Fm		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/15/2010

Report #: 3.0

Depth Progress:

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 153,307

Cum Cost to Date: 468,918

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: -1.31 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB)	Depth End (mKB)	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
Weather OVERCAST	Temperature (°C) -15	Lease Condition	
Operation at 6am			
Operations Summary			
Operations Next Report Period			
Remarks			

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	08:00	8.00	8.00	Rig up	RIG UP ON NEW LOCATION (WORK DAYLIGHTS)
08:00	08:15	0.25	8.25	Safety meeting	SAFETY MEETING WITH ALL PERSONNEL
08:15	20:00	11.75	20.00	Rig up	RIG UP ON NEW LOCATION,FINISH SPOTTING ALL BUILDINGS, START RIGGING IN SECOND PUMP, WORK ON RIGGING IN THE REST OF THE RIG
20:00	00:00	4.00	24.00	Rig up	RIG UP, WELD ON FLANGE FOR DIVERTER, PREPARE TO PICK UP DIVERTER

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 Cost 2,348	Mud Cum To Date 2,348	
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
MTL SHURE SHALE	195.11	2.0
MILLZAN	522.35	2.0
SAWDUST CODE 1122	6.53	13.0
CAL CARB 325	11.36	69.0
CAUSTIC SODA BEADS	44.63	1.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	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 (hrs)	BHA ROP (m/hr)	IADC Bit Dull



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/15/2010

Report #: 3.0

Depth Progress:

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 153,307

Cum Cost to Date: 468,918

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: -1.31 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
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SAFETY INCIDENTS

Date	Comment	Type
1/16/2010	Driller had installed degasser line on mud tank using the boom line. While this operation was underway other crew members were installing the floor area prefab tarps. The driller went to assist with the prefabs and banged into the boom line hydraulic control lever. The result was damage to the flare line attachment on the mud tank. Flare line was removed and welder comissioned to repair.	Near Miss

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
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FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
Muskeg Fm		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/16/2010

Report #: 4.0

Depth Progress:

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 38,819

Cum Cost to Date: 507,737

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: -0.31 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB)	Depth End (mKB)	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
Weather OVERCAST	Temperature (°C) -15	Lease Condition	
Operation at 6am ADDRESSING RIG INSPECTION DEFICENCIES			
Operations Summary Evening Tour Notes: FUNCTION CROWN SAVER VIS INSPECT TONGS,LINES, SLIPS, BLOW DOWN BOILER 1X			
Operations Next Report Period SPUD WELL AND DRILL AHEAD			
Remarks			
Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:30	0.50	0.50	Rig Service	RIG SERVICE
00:30	01:00	0.50	1.00	Rig up	RIG UP RAISE TOP SECTION OF DERRICK
01:00	02:30	1.50	2.50	Rig up	RIG UP GET WATER & STEAM GOING AROUND RIG
02:30	03:00	0.50	3.00	Rig up	RIG UP, PICK UP KELLY
03:00	08:00	5.00	8.00	Rig up	RIG UP, RIG IN DIVERTER ,BRING BHA OVER
08:00	20:00	12.00	20.00	Rig up	RIG UP, FINISH RIGGING IN DIVERTER, RUN DIVERTER LINE AND TIE INTO FLARE TANK,FINISH RIGGING IN SECOND PUMP, TIDY UP LOCATION, FINISH PREFABS, RIG IN BOILER BLOW DOWN TANK
20:00	21:45	1.75	21.75	Pick up BHA	PICK UP BHA ,MAKE UP BIT & 8 INCH DC
21:45	22:15	0.50	22.25	Test diverter	TEST DIVERTER ,WITNESS BY RIG MANAGER ,& DRILLER & PARAMOUNT SUPERVISOR
22:15	23:00	0.75	23.00	Condition mud & circulate	THAW OUT ICE PLUG IN KELLY HOSE & CIRCULATE
23:00	00:00	1.00	24.00	Other	RIG INSPECTION

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 Cost	Mud Cum To Date 2,348		
Depth (mKB)	Density (kg/m³) 1000.0	Funnel Viscosity (s/L) 30	pH	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
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MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/16/2010

Report #: 4.0

Depth Progress:

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 38,819

Cum Cost to Date: 507,737

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: -0.31 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Pressure (kPa)	Slow Speed Check? No	Strokes (spm)	Volumetric Efficiency (%)
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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 (hrs)	BHA ROP (m/hr)	IADC Bit Dull

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
1/17/2010	Pre Spud Inspection	Rig and Rental Equipment Inspection

SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
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FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
Muskeg Fm		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/17/2010

Report #: 5.0

Depth Progress: 116.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 21,237

Cum Cost to Date: 528,974

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 0.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 19.0	Depth End (mKB) 135.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather OVERCAST	Temperature (°C) -11	Lease Condition
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Operation at 6am

DRILLING AHEAD AT 159m

Operations Summary

Morning Tour Notes:

FUNCTION CROWN SAVER, INSPECT FLOOR,PUMP HOUSE ,BOILER, LIGHT PLANT, MUD TANKS BLOW DOWN BOILER 2X

Day Tour Notes:

FUNCTIONED CROWN SAVER, VISUALLY INSPECTED TONGS, LINES,SLIPS, BRAKE LINKAGE, BOILER BLOWN TWICE

Evening Tour Notes:

FUNCTION CROWN SAVER, VIS INSPECT TONGS,LINES SLIPS BLOW DOWN BOILER 1X

Operations Next Report Period

DRILL AHEAD

Remarks

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
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Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
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TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTION DIVERTER & HCR VALVE
00:15	02:00	1.75	2.00	Other	RIG INSPECTION WITH RIG SUPERVISOR
02:00	07:00	5.00	7.00	Other	WORK ON INSPECTION LIST FORM RIG SUPERVISOR
07:00	07:15	0.25	7.25	Safety meeting	SAFETY MEETING PRESPUD WITH ALL PERSONNEL
07:15	07:30	0.25	7.50	Drills/BOP, etc.	DRILLS/BOP. WELL SECURE 45 SECONDS
07:30	08:00	0.50	8.00	Drill	SPUD WELL , DRILL FROM 0m- 19m
08:00	19:00	11.00	19.00	Drill	DRILL 311mm HOLE FROM 19 - 110M
19:00	20:00	1.00	20.00	Deviation survey	TELEDRIFT SURVEY
20:00	23:00	3.00	23.00	Drill	DRILL 311mm HOLE FROM 110m TO 135m MUD VERY FOAMY
23:00	23:30	0.50	23.50	Deviation survey	TELEDRIFT SURVEY
23:30	00:00	0.50	24.00	Circulate And Condition	CIRCULATE AND MIX DEFOAMER

MUD CHECKS

Low Gravity Solids (%)	MBT (kg/m³) 100	Oil Water Ratio	Chlorides (mg/L) 600	Calcium (mg/L) 40	Lime (kg/m³)	Potassium (mg/L)
Electric Stab (V)	ECD - Manual Entry (kg/m³)	Sand (%)	Solids (%) 3.0	Temp Bottom Hole (°C)	HTHP Pressure (kPa)	HTHP Filtrate (mL/30min)
Active Mud Volume (Surf) (m³)	Mud Lost to Hole (m³) 0.00	Cum Mud Lost to Hole (m³)	Daily Mud Cost	Mud Cum To Date 2,348		
Depth (mKB) 95.00	Density (kg/m³) 1030.0	Funnel Viscosity (s/L) 46	pH 8.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
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MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/17/2010

Report #: 5.0

Depth Progress: 116.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 21,237

Cum Cost to Date: 528,974

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 0.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Pressure (kPa)	Slow Speed Check? No	Strokes (spm)	Volumetric Efficiency (%)
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MUD PUMPS

Pump Number	2	Rod Diameter (mm)	152.4	Pump Rating (kW)	800.0
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	
				Volumetric Efficiency (%)	

BIT SUMMARY

Bit Run 1	Bit Type Bit	Size (mm) 311.1	Make VAREL	Model HE04SMRSV	Serial Number 250962	IADC Codes 4-1-7-
Nozzles (mm) 14.3/14.3/14.3/14.3	Depth In (mKB) 19.00	Depth Out (mKB) 378.00	Depth Drilled (m) 359.00	Drilling Time (hrs) 40.00	BHA ROP (m/hr) 9.0	IADC Bit Dull 2-2-WT-A-1-0-CT-TD

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill Pipe	82.3	101.6	1	9.51	701.40
Drill Pipe	101.6	127.0	6	113.85	521.04
Drill pipe - Stands			9	170.85	691.89
HWDP	69.8	101.6	6	55.79	351.40
HWDP(4.5 IN)		133.0	6	55.79	407.19
Drill Collar	57.1	155.0	1	0.28	295.33
X/O		155.0	1	0.28	295.61
DC (6.25 IN)		158.0	2	18.21	276.84
Drill Collar	57.1	158.0	2	18.21	295.05
Drilling Jars - Hydraulic	52.0	166.0	1	5.51	253.12
JARS		166.0	1	5.51	258.63
Drill Collar - Pony		166.0	1	4.61	243.00
SHORT DC		166.0	1	4.61	247.61
DC (6.25 IN)		158.0	11	99.52	138.87
Drill Collar	57.1	158.0	11	99.52	238.39
Survey Tool - Teledrift		154.0	1	2.47	36.88
TELEDRIFT		154.0	1	2.47	39.35
Drill Collar	63.5	194.0	2	17.05	17.36
DC (8.00 IN)		194.0	2	17.05	34.41

DRILLING SUMMARY

Depth Start (mKB) 19.00	Depth End (mKB) 110.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 65	Motor RPM (rpm)	Bit RPM (rpm) 65	Slack-Off Hook Load (daN)	Drilling Time (hrs) 11.00		
Depth Start (mKB) 110.00	Depth End (mKB) 135.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 65	Motor RPM (rpm)	Bit RPM (rpm) 65	Slack-Off Hook Load (daN)	Drilling Time (hrs) 3.00		

SAFETY CHECKS

Date	Type	Description
1/18/2010	Safety Meeting	HSE ALERT 2009-US 002 POWER SLIPS

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)

SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)
1/17/2010	11.00	0.50	0.00	11.00	0.05	0.00	0.05	1.36
1/17/2010	19.00	0.50	0.00	19.00	0.12	0.00	0.12	0.00
1/17/2010	30.00	0.50	0.00	30.00	0.21	0.00	0.21	0.00
1/17/2010	56.00	0.50	0.00	56.00	0.44	0.00	0.44	0.00
1/17/2010	91.00	0.50	0.00	91.00	0.75	0.00	0.75	0.00



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/17/2010

Report #: 5.0

Depth Progress: 116.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 21,237

Cum Cost to Date: 528,974

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010		DFS: 0.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/18/2010

Report #: 6.0

Depth Progress: 204.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 72,036

Cum Cost to Date: 601,010

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 1.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 135.0	Depth End (mKB) 339.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather OVERCAST	Temperature (°C) -12	Lease Condition
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Operation at 6am

WIPER TRIP WITH STRAP FROM 367M. HOLE GOOD

Operations Summary

DRILL 311mm SURFACE HOLE FROM 135m - 339m.

Operations Next Report Period

DRILL TO CASING DEPTH AT 378m. CONDITION HOLE. RUN CASING AND CEMENT

Remarks

MUD SYSTEM WORKED WELL WHILE DRILLING. NO TIGHT CONNECTIONS OR MUD RINGING THROUGHOUT. CUTTINGS ARE NOT FROZEN. CUTTING ARE SCHEDULED TO BE MOVED TO SUMP AFTER SURFACE HOLE USING SIDE DUMP UNIT.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE
00:15	01:00	0.75	1.00	Condition mud & circulate	CONDITION MUD & CIRCULATE, WAIT FOR DEFOAMER
01:00	07:00	6.00	7.00	Drill	DRILL 311mm HOLE FROM 135m TO 178m
07:00	07:30	0.50	7.50	Deviation survey	DEVIATION SURVEY (ACCUMULATED)
07:30	08:00	0.50	8.00	Circulate And Condition	CIRCULATE TO CONTROL FOAM
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE
08:15	16:00	7.75	16.00	Drill	DRILL 311mm HOLE FROM 178 - 253m
16:00	16:15	0.25	16.25	Rig Service	RIG SERVICE, FUNCTIONED ANNULAR PREVENTER C/O 6 SECONDS
16:15	19:15	3.00	19.25	Drill	DRILL 311mm HOLE FROM 253 - 313M
19:15	20:00	0.75	20.00	Deviation survey	DEVIATION SURVEY (ACCUMULATIVE)
20:00	20:15	0.25	20.25	Safety meeting	SAFETY MEETING, WITH RIG MANGER, RIG SUPERVISER
20:15	23:30	3.25	23.50	Drill	DRILL 311mm HOLE FROM 313m TO 339m
23:30	00:00	0.50	24.00	Deviation survey	DEVIATION SURVEY (ACCUMULATED)

MUD CHECKS

Low Gravity Solids (%)	MBT (kg/m³) 100	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 (%) 3.0	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 Cost 1,894	Mud Cum To Date 4,242		
Depth (mKB) 334.00	Density (kg/m³) 1020.0	Funnel Viscosity (s/L) 50	pH 9.5	PV Override (cp)	YP Override (Pa) 5.300	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
DEFOAMER XL	169.17	3.0
SAWDUST CODE 1122	6.53	15.0
ULTRA SEAL	77.73	6.0
HYPER DRILL 247RD 1302	221.55	1.0



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/18/2010

Report #: 6.0

Depth Progress: 204.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 72,036

Cum Cost to Date: 601,010

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 1.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
MILLZAN	522.35	1.0
SAWDUST CODE 1122	6.53	12.0

MUD PUMPS

Pump Number	1	Rod Diameter (mm)	152.4	Pump Rating (kW)	800.0
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	Volumetric Efficiency (%)
Pump Number	2	Rod Diameter (mm)	152.4	Pump Rating (kW)	800.0
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 1	Bit Type Bit	Size (mm) 311.1	Make VAREL	Model HE04SMRSV	Serial Number 250962	IADC Codes 4-1-7-
Nozzles (mm) 14.3/14.3/14.3/14.3	Depth In (mKB) 19.00	Depth Out (mKB) 378.00	Depth Drilled (m) 359.00	Drilling Time (hrs) 40.00	BHA ROP (m/hr) 9.0	IADC Bit Dull 2-2-WT-A-1-0-CT-TD

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill Pipe	82.3	101.6	1	9.51	701.40
Drill Pipe	101.6	127.0	6	113.85	521.04
Drill pipe - Stands			9	170.85	691.89
HWDP	69.8	101.6	6	55.79	351.40
HWDP(4.5 IN)		133.0	6	55.79	407.19
Drill Collar	57.1	155.0	1	0.28	295.33
X/O		155.0	1	0.28	295.61
DC (6.25 IN)		158.0	2	18.21	276.84
Drill Collar	57.1	158.0	2	18.21	295.05
Drilling Jars - Hydraulic	52.0	166.0	1	5.51	253.12
JARS		166.0	1	5.51	258.63
Drill Collar - Pony		166.0	1	4.61	243.00
SHORT DC		166.0	1	4.61	247.61
DC (6.25 IN)		158.0	11	99.52	138.87
Drill Collar	57.1	158.0	11	99.52	238.39
Survey Tool - Teledrift		154.0	1	2.47	36.88
TELEDRIIFT		154.0	1	2.47	39.35
Drill Collar	63.5	194.0	2	17.05	17.36
DC (8.00 IN)		194.0	2	17.05	34.41

DRILLING SUMMARY

Depth Start (mKB) 135.00	Depth End (mKB) 178.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 65	Motor RPM (rpm)	Bit RPM (rpm) 65	Slack-Off Hook Load (daN)	Drilling Time (hrs) 6.00		
Depth Start (mKB) 178.00	Depth End (mKB) 313.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 4,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 85	Motor RPM (rpm)	Bit RPM (rpm) 85	Slack-Off Hook Load (daN)	Drilling Time (hrs) 10.75		
Depth Start (mKB) 313.00	Depth End (mKB) 339.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 3.25		

SAFETY CHECKS

Date	Type	Description
1/19/2010	Safety Meeting	CEMENTING

SAFETY INCIDENTS

Date	Comment	Type



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/18/2010

Report #: 6.0

Depth Progress: 204.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 72,036

Cum Cost to Date: 601,010

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 1.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)

SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)
1/18/2010	175.00	1.00	0.00	174.99	1.71	0.00	1.71	0.00
1/18/2010	203.00	0.50	0.00	202.99	2.08	0.00	2.08	0.54
1/18/2010	231.00	0.50	0.00	230.99	2.32	0.00	2.32	0.00
1/18/2010	260.00	2.00	0.00	259.98	2.95	0.00	2.95	1.55
1/18/2010	298.00	2.00	0.00	297.96	4.28	0.00	4.28	0.00

FORMATIONS

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



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/19/2010

Report #: 7.0

Depth Progress: 39.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 29,628

Cum Cost to Date: 630,638

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010		DFS: 2.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 339.0	Depth End (mKB) 378.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather OVERCAST	Temperature (°C) -10	Lease Condition
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Operation at 6am

PREPARING TO CUT CASING

Operations Summary

DRILL AHEAD TO 367m. WIPER TRIP TO SURFACE (HOLE GOOD) DRILL TO 378m. CONDITION MUD TO RUN CASING. POOH AND LAY DOWN 203mm DC. RIG IN POWER TONGS AND RUN 378m OF 219mm SURFACE CASING. CIRCULATE CASING, WAIT ON SANGEL CEMENTERS

Operations Next Report Period

CEMENT CASING, WOC, NIPPLE DOWN DIVERTER, WELD BOWL, NIPPLE UP BOP

Remarks

CASING RAN RIGHT TO BOTTOM. HOLE IN EXCELLENT SHAPE

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTION DIVERTER C/O 6SECONDS
00:15	03:45	3.50	3.75	Drill	DRILL 311mmHOLE FROM 339m TO 367m
03:45	04:45	1.00	4.75	Condition mud & circulate	CONDITION MUD & CIRCULATE
04:45	08:00	3.25	8.00	Wiper Trip	WIPER TRIP FC,@ 355,183,0M
08:00	08:15	0.25	8.25	Trips	TRIPS, RIH
08:15	08:30	0.25	8.50	Rig Service	RIG SERVICE
08:30	09:30	1.00	9.50	Condition mud & circulate	CIRCULATE HOLE CLEAN
09:30	12:00	2.50	12.00	Drill	DRILL 311mm HOLE FROM 367M -378M
12:00	12:15	0.25	12.25	Deviation survey	DEVIATION SURVEY
12:15	13:00	0.75	13.00	Condition mud & circulate	CONDITION MUD & CIRCULATE HOLE CLEAN
13:00	15:00	2.00	15.00	Trips	TRIPS, POOH, LAY DOWN 8" DC
15:00	15:15	0.25	15.25	Safety meeting	SAFETY MEETING WITH TONG HAND
15:15	19:30	4.25	19.50	Run casing & cementing	RIG IN AND RUN CASING
19:30	20:00	0.50	20.00	Condition mud & circulate	CONDITION MUD & CIRCULATE CASING, WAIT ON SANGEL CEMENTERS
20:00	23:30	3.50	23.50	Condition mud & circulate	CONDITION MUD & CIRCULATE CASING, WAIT ON SANGEL CEMENTERS
23:30	00:00	0.50	24.00	Safety meeting	SAFETY MEETING WITH SANGEL CEMENTERS

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 Cost 52	Mud Cum To Date 4,295	
Depth (mKB) 378.00	Density (kg/m³) 1020.0	Funnel Viscosity (s/L) 45	pH 9.0	PV Override (cp)	YP Override (Pa)	



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/19/2010

Report #: 7.0

Depth Progress: 39.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 29,628

Cum Cost to Date: 630,638

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 2.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
SAWDUST CODE 1122	6.53	8.0

MUD PUMPS

Pump Number 1		Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)	Volumetric Efficiency (%)	
Pump Number 2		Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)	Volumetric Efficiency (%)	

BIT SUMMARY

Bit Run 1	Bit Type Bit	Size (mm) 311.1	Make VAREL	Model HE04SMRSV	Serial Number 250962	IADC Codes 4-1-7-
Nozzles (mm) 14.3/14.3/14.3/14.3	Depth In (mKB) 19.00	Depth Out (mKB) 378.00	Depth Drilled (m) 359.00	Drilling Time (hrs) 40.00	BHA ROP (m/hr) 9.0	IADC Bit Dull 2-2-WT-A-1-0-CT-TD

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill Pipe	82.3	101.6	1	9.51	701.40
Drill Pipe	101.6	127.0	6	113.85	521.04
Drill pipe - Stands			9	170.85	691.89
HWDP	69.8	101.6	6	55.79	351.40
HWDP(4.5 IN)		133.0	6	55.79	407.19
Drill Collar	57.1	155.0	1	0.28	295.33
X/O		155.0	1	0.28	295.61
DC (6.25 IN)		158.0	2	18.21	276.84
Drill Collar	57.1	158.0	2	18.21	295.05
Drilling Jars - Hydraulic	52.0	166.0	1	5.51	253.12
JARS		166.0	1	5.51	258.63
Drill Collar - Pony		166.0	1	4.61	243.00
SHORT DC		166.0	1	4.61	247.61
DC (6.25 IN)		158.0	11	99.52	138.87
Drill Collar	57.1	158.0	11	99.52	238.39
Survey Tool - Teledrift		154.0	1	2.47	36.88
TELEDRIFT		154.0	1	2.47	39.35
Drill Collar	63.5	194.0	2	17.05	17.36
DC (8.00 IN)		194.0	2	17.05	34.41

DRILLING SUMMARY

Depth Start (mKB) 339.00	Depth End (mKB) 367.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 110	Motor RPM (rpm)	Bit RPM (rpm) 110	Slack-Off Hook Load (daN)	Drilling Time (hrs) 3.50		
Depth Start (mKB) 367.00	Depth End (mKB) 378.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 4,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 85	Motor RPM (rpm)	Bit RPM (rpm) 85	Slack-Off Hook Load (daN)	Drilling Time (hrs) 2.50		

SAFETY CHECKS

Date	Type	Description
1/20/2010	Safety Meeting	LEVELING RIG,PRESSURE TESTING

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)

SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)
1/19/2010	327.00	1.50	0.00	326.94	5.17	0.00	5.17	0.52



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/19/2010

Report #: 7.0

Depth Progress: 39.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 29,628

Cum Cost to Date: 630,638

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 2.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
1/19/2010	346.00	2.00	0.00	345.93	5.75	0.00	5.75	0.79

FORMATIONS

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



Paramount
resources ltd.

Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/20/2010

Report #: 8.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 156,333

Cum Cost to Date: 786,971

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 3.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB)	378.0	Depth End (mKB)	378.0	Target Formation	Sulphur Point	Target Depth (mKB)	1,465.00
Weather		Temperature (°C)		Lease Condition			
OVERCAST		-8					
Operation at 6am							
WASHING TO TOP OF FLOAT COLLAR AT 363M.							
Operations Summary							
RIG IN SANGEL CEMENTERS. CEMENT CASING WITH 33 T OF CL"G" WITH 1.5% CACL2. DISPLACED WITH 12 M3 OF H2O. BUMPED PLUG WITH 7500KPA. PRESSURE TEST CASING TO 16000KPA. WOC. WELD ON CASING BOWL. RIG UP BOP. INSTALL NEW CHOKE LINES AND FLARE LINES. JACK RIG. COMPLETE BOP RIG UP. PRESSURE TEST MANIFOLD, LINES, BOP COMPONENTS AND VALVES TO 1500 KPA LOW TEST AND 14000 KPA HIGH TEST. TEST ANNULAR PREVENTER TO 1500 KPA LOW TEST AND 10500 KPA HIGH TEST. TESTED UPPER AND LOWER KELLY VALVES AND STABBING VALVE TO 1500 KPA LOW TEST AND 14000 KPA HIGH TEST. CLEAN MUD TANKS							

Operations Next Report Period

COMPLETE PRESSURE TESTING, DRILLOUT, DRILL AHEAD

Remarks

INAC DID A LOCATION ENVIRONMENTAL INSPECTION. POSITIVE. TRANSPORTED 6 SIDE DUMP LOADS OF CUTTINGS FROM LOCATION TO SUMP. RAIMES IS RIGGING IN H2S DETECTION AND SAFETY EQUIPMENT

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	01:15	1.25	1.25	Cementing	CEMENT CASING, 7.5 M3 RETURNS TO SURFACE, BUMPED PLUG, FLOATS HELD
01:15	01:30	0.25	1.50	Pressure test CSG/shoe	PRESSURE TEST CSG/SHOE TO 16,000 KPA
01:30	07:30	6.00	7.50	Wait on cement	WAIT ON CEMENT
07:30	08:00	0.50	8.00	Other	CUT CASING & WELD BOWL
08:00	10:30	2.50	10.50	Other	CUT CASING AND WELD ON BOWL
10:30	18:00	7.50	18.00	Nipple up BOP	NIPPLE UP BOP,INSTALL NEW LINES TO MANIFOLD,MANIFOLD TO FLARE TANK,MANIFOLD TO MUD TANKS
18:00	19:00	1.00	19.00	Level rig	LEVEL RIG WITH ARDY RIG JACKINGS
19:00	20:00	1.00	20.00	Nipple up BOP	FINISH NIPPLING UP BOPS
20:00	22:00	2.00	22.00	Nipple up BOP	FINISH NIPPLE UP.PICK UP KELLY AND INSTALL UPPER KELLY COCK
22:00	00:00	2.00	24.00	Pressure test BOPs	PRESSURE TEST BOPS.TEST UPPER AND LOWER KELLY COCK STABBING VALVE AND INSIDE BOPS.PRESSURE TEST PIPE RAMS PRESSURE TEST BLINDS,HCR,ALL BOP VALVES,CHOKE LINES AND MANIFOLD 1500 KPA LOW-14000 KPA HIGH.ALL TEST 10 MINUTES TEST ANNULAR TO 1500 KPA AND 10500 H

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 Cost	Mud Cum To Date 4,295		
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/20/2010

Report #: 8.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 156,333

Cum Cost to Date: 786,971

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 3.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	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 (hrs)	BHA ROP (m/hr)	IADC Bit Dull

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
1/21/2010	Safety Meeting	USE OF SCBA, MUSTER POINTS
1/21/2010	Safety Meeting	USE OF SCBAS, MUSTER POINTS

SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

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

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/21/2010

Report #: 9.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 28,901

Cum Cost to Date: 815,872

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010		DFS: 4.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 378.0	Depth End (mKB) 378.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather OVERCAST	Temperature (°C) -12	Lease Condition
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Operation at 6am

DRILLING TO 627m AT 20m/hr WITH 25% - 100% LOSSES

Operations Summary

COMPLETE BOP TEST 1500kpa LOW AND 14000kpa HIGH TEST, RIH TO 356M AND DRILL CEMENT AND FLOAT COLLAR AT 363m. HELD BOP DRILL. DRILL OUT FLOAT AT 377m. DRILL FROM 378m - 413m. POOH INTO CASING AT 363. CHANGE CHOKE LINE DIRECTIONAL BLOCKS. PRESSURE TEST CHOKE LINE TO 1500kpa LOW AND 14000kpa HIGH. RIH TO BOTTOM AT 413m. DRILL FROM 413m - 475m. HELD BOP DRILL WITH NIGHT SHIFT. DRILL FROM 475m - 523m

Operations Next Report Period

DRILL AHEAD WITH LOSSES

Remarks

LOST TIME - 0.25hr TRANSMISSION REPAIR, 2.5hr CHANGE BLOCKS ON CHOKE LINE, 0.25hr CHANGE SWIVEL WASHPIPE PACKING. HELD H2S SCBA PACK DONNING DRILLS WITH ALL PERSONNEL ON LOCATION.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	03:30	3.50	3.50	Test BOP	TEST BOP, TEST PIPE RAMS, ANNULAR PREVENTER, 1500KPA LOW, 14000KPA HIGH AS PER NEB REGULATIONS,
03:30	05:15	1.75	5.25	Trips	TRIPS, RIH
05:15	05:30	0.25	5.50	Drills/BOP, etc.	DRILLS/BOP, WELL SECURE 65 SECONDS
05:30	08:00	2.50	8.00	Drill cement/drill out cement/drill float&shoe	DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE
08:00	10:30	2.50	10.50	Drill cement/drill out cement/drill float&shoe	DRILL CEMENT/DRILL OUT CEMENT/DRILL FLOAT&SHOE
10:30	11:00	0.50	11.00	Drills/BOP, etc.	DRILLS/BOP, ETC. WELL SECURE IN 68 SECS. SAFTY MEETING WITH RAIMS INT. PARAMONT RESOURCES, ALL PERSONNEL
11:00	11:15	0.25	11.25	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 4 SECS
11:15	13:15	2.00	13.25	Drill	DRILL 200MM HOLE FROM 378 METERS TO 408 METERS
13:15	13:30	0.25	13.50	Rig Repair	RIG REPAIR. CHANGE OIL LINE ON TRANNY.
13:30	13:45	0.25	13.75	Drill	DRILL 200MM HOLE FROM 408 METERS TO 413 METERS
13:45	14:00	0.25	14.00	Condition mud & circulate	CIRCULATE BOTTOMS UP. PULL UP INTO CASING
14:00	14:30	0.50	14.50	Trip out of hole	PULL UP INTO CASING. SWITCH BLOCKS AROUND ON MANIFOLD LINE. FLOW CHECK AT 405M. 370M
14:30	15:30	1.00	15.50	Other	SWITCH BLOCKS AROUND ON MANIFOLD LINE
15:30	16:15	0.75	16.25	Pressure test BOPs	PRESSURE TEST MANIFOLD LINE. HCR LINE
16:15	19:30	3.25	19.50	Drill	DRILL 200MM HOLE FROM 413M TO 475M
19:30	20:00	0.50	20.00	Deviation survey	DEVIATION SURVEY (ACCUMULATIVE)
20:00	20:15	0.25	20.25	Drills/BOP, etc.	DRILLS/BOP, WELL SECURE 50 SECONDS
20:15	20:30	0.25	20.50	Safety meeting	SAFETY MEETING WITH RAIMS SERVICES, H2S ALARM DRILL
20:30	21:00	0.50	21.00	Drill	DRILL 200mm HOLE FROM 475 - 485M



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/21/2010

Report #: 9.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 28,901

Cum Cost to Date: 815,872

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 4.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
21:00	21:45	0.75	21.75	Rig Repair	RIG REPAIR, CHANGE SWIVEL WASH PIPE PACKING
21:45	23:30	1.75	23.50	Drill	DRILL 200mm HOLE FROM 485 - 532M
23:30	00:00	0.50	24.00	Deviation survey	DEVIATION SURVEY (ACCUMULATIVE)

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 Cost	Mud Cum To Date 4,295		
Depth (mKB) 492.00	Density (kg/m³) 1000.0	Funnel Viscosity (s/L) 30	pH 11.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
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MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	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 (hrs)	BHA ROP (m/hr)	IADC Bit Dull

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
1/21/2010	Safety Meeting	H2S DETECTION/ALARM SYSTEM
1/22/2010	Safety Meeting	ABIDING BY PARAMOUNTS HAND BOOK

SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)
1/21/2010	388.00	1.50	0.00	387.91	7.03	0.00	7.03	0.36
1/21/2010	435.00	2.00	0.00	434.89	8.46	0.00	8.46	0.32
1/21/2010	482.00	3.00	0.00	481.87	9.57	0.45	9.57	13.89
1/21/2010	530.00	3.00	0.00	529.80	7.94	-1.00	7.94	26.21

FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling
Well Name: PARA ET AL CAMERON M-74
Business Unit: NE BC & NWT COU
Rig: 436 Precision Drilling

Report For: 1/22/2010
Report #: 10.0
Depth Progress: 548.00
Total AFE Amount: 1,789,656.00
AFE Number: 09N010005
Daily Cost: 44,645
Cum Cost to Date: 860,517

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 5.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations							
Depth Start (mKB)	378.0	Depth End (mKB)	926.0	Target Formation	Sulphur Point	Target Depth (mKB)	1,465.00
Weather		Temperature (°C)		Lease Condition			
OVERCAST WITH LIGHT SNOW		-15					
Operation at 6am							
DRILLING AHEAD TO 969M AT 5m / hr							
Operations Summary							
DRILL FROM 523m - 557m. ENCOUNTERED LOSSES AT 557m. DRILL FROM 557m - 660m WITH LOSSES OF 10m3 - 30m3 / HR. DRILLED FROM 660m - 710m WITH LOSSES OF 30m3 - TOTAL LOSSES. DRILLED FROM 710m - 726m WITH LOSSES 5m3 - 15m3 /HR. DRILLED FROM 726m - 926m WITH NO LOSSES. STARTED MUD UP OPERATIONS AT 900m							
Operations Next Report Period							
COMPLETE MUD UP OPERATION WHILE DRILLING AHEAD							
Remarks							
MOBILIZED AN ADDITIONAL 3 WATER TRUCKS FROM CONSTRUCTION TO HAUL WATER WHILE ENCOUNTERING LOSSES AND DRILLING BLIND. TOTAL LOSS OF FLUID DOWNHOLE - 220m3							
Avg Connection Gas (Units)		Avg Background Gas (Units)		Avg Trip Gas (Units)		Max H2S (Units)	
Head Count		Personnel Total Hours (hrs)			Cum Personnel Total Hours (hrs)		

DAILY CONTACTS			
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082	
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645	

TIME LOG SUMMARY					
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE, FUNCTIONED ANNULAR PREVENTER C/O 8 SECONDS
00:15	07:15	7.00	7.25	Drill	DRILL 200mm HOLE FROM 532 - 656M
07:15	08:00	0.75	8.00	Deviation survey	DEVIATION SURVEY (ACCUMULATIVE)
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 4 SECS
08:15	16:00	7.75	16.00	Drill	DRILL 200MM HOLE FROM 656 METERS TO 789 METERS
16:00	16:15	0.25	16.25	Rig Service	RIG SERVICE FUNCTIONED ANNULAR PREVENTER C/O 8 SECS
16:15	19:30	3.25	19.50	Drill	DRILL 200MM HOLE FROM 789M TO 852M
19:30	20:00	0.50	20.00	Deviation survey	DEVIATION SURVEY ((ACCUMULATED)
20:00	23:45	3.75	23.75	Drill	DRILL 200mm HOLE FROM 852 - 926M
23:45	00:00	0.25	24.00	Deviation survey	DEVIATION SURVEY (ACCUMULATIVE)

MUD CHECKS							
Low Gravity Solids (%)	MBT (kg/m³)	Oil Water Ratio	Chlorides (mg/L)	Calcium (mg/L)	Lime (kg/m³)	Potassium (mg/L)	
			120	369			
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 Cost	Mud Cum To Date
						294	4,588
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)		
900.00	1000.0	28	9.0				

MUD ADDITIVES		
Description SAWDUST CODE 1122	Cost (/unit) 6.53	Consumed 45.0

MUD PUMPS			
Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)	Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0	



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/22/2010

Report #: 10.0

Depth Progress: 548.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 44,645

Cum Cost to Date: 860,517

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 5.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Pressure (kPa)	Slow Speed Check? No	Strokes (spm)	Volumetric Efficiency (%)
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BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46

DRILLING SUMMARY

Depth Start (mKB) 378.00	Depth End (mKB) 656.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 2,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 90	Motor RPM (rpm)	Bit RPM (rpm) 90	Slack-Off Hook Load (daN)	Drilling Time (hrs) 7.00		
Depth Start (mKB) 656.00	Depth End (mKB) 852.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 90	Motor RPM (rpm)	Bit RPM (rpm) 90	Slack-Off Hook Load (daN)	Drilling Time (hrs) 11.00		
Depth Start (mKB) 852.00	Depth End (mKB) 926.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 90	Motor RPM (rpm)	Bit RPM (rpm) 90	Slack-Off Hook Load (daN) 35	Drilling Time (hrs) 3.75		

SAFETY CHECKS

Date	Type	Description
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SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
1/22/2010	628.00	3.00	0.00	627.65	9.56	-3.01	9.56	1.00
1/22/2010	703.00	3.50	0.00	702.53	13.81	-3.01	13.81	0.20
1/22/2010	806.00	3.00	0.00	805.36	19.65	-3.01	19.65	0.15
1/22/2010	900.00	3.00	0.00	899.09	25.52	0.53	25.52	2.49

FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/23/2010

Report #: 11.0

Depth Progress: 105.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 63,299

Cum Cost to Date: 923,816

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 6.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 926.0	Depth End (mKB) 1,026.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather OVERCAST	Temperature (°C) -20	Lease Condition
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Operation at 6am

CIRC AT A REDUCED RATE AND MIXING LCM AT 597m

Operations Summary

DRILL FROM 926m - 959m. RUN SINGLE SHOT SURVEY TO VERIFY TELEDRIFT. SINGLE SHOT SURVEY WAS ABOUT 8 DEGREES. DRILL FROM 959m - 1026m AT MAXIMUM DRILLING RATE OF 5m/hr. LAST SURVEY WAS 6.75 DEGREES AT 1007m. CIRCULATE AND CONDITION HOLE WHILE WAITING ON DIRECTIONAL TOOLS AND PERSONNEL

Operations Next Report Period

POOH FOR DIRECTIONAL TOOLS, CONTROL LOSSES AT 620m, DIRECTIONAL DRILL

Remarks

MOBILIZED DIRECTIONAL PERSONNEL AND TOOLS FOR A COMPLETE WELLBORE SURVEY AND CORRECTION RUN.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS
00:15	02:30	2.25	2.50	Drill	DRILL 200mm HOLE FROM 926 - 959M
02:30	03:00	0.50	3.00	Deviation survey	DEVIATION SURVEY WIRE LINED TO VERIFY TELEDRIFT
03:00	03:45	0.75	3.75	W/O Orders	W/O ORDERS
03:45	07:30	3.75	7.50	Drill	DRILL 200mm HOLE AT REDUCED ROP FROM 959 - 975
07:30	08:00	0.50	8.00	Condition mud & circulate	CIRCULATE HOLE CLEAN
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTIONED ANNULAR PREVENTER C/O 8 SECS
08:15	08:45	0.50	8.75	Condition mud & circulate	CONDITION MUD & CIRCULATE. WAIT ON ORDERS TO START DRILLING
08:45	09:45	1.00	9.75	Drill	DRILL 200MM HOLE WITH REDUCED ROP FROM 975M TO 978M
09:45	10:00	0.25	10.00	Condition mud & circulate	CIRCULATE FOR 15 MINS. CLEAN HOLE PRIOR TO SINGLE SHOT SURVEY
10:00	10:30	0.50	10.50	Wireline Surveys - Single shot surveys	SINGLE SHOT SURVEY AT 963 METERS. (WIRELINE) DEV. 8 DEGREES
10:30	17:30	7.00	17.50	Drill	DRILL 200MM HOLE WITH REDUCED ROP FROM 978M TO 1007M
17:30	17:45	0.25	17.75	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 5 SECS
17:45	18:00	0.25	18.00	Condition mud & circulate	CIRCULATE BOTTOMS UP FOR SURVEY
18:00	18:30	0.50	18.50	Deviation survey	DEVIATION SURVEY (WIRELINE) AT 991 METERS DEV. 8 DEG
18:30	20:00	1.50	20.00	Drill	DRILL 200MM HOLE WITH REDUCED ROP FROM 1007M TO 1014M
20:00	22:30	2.50	22.50	Drill	DRILL 200mm HOLE FROM 1014 - 1026M
22:30	23:00	0.50	23.00	Condition mud & circulate	CIRCULATE HOLE CLEAN FOR WIRE LINE SURVEY
23:00	23:15	0.25	23.25	Deviation survey	WIRE LINE SURVEY @ 1007M DEV. 6.75 DEG



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/23/2010

Report #: 11.0

Depth Progress: 105.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 63,299

Cum Cost to Date: 923,816

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 6.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
23:15	00:00	0.75	24.00	Condition mud & circulate	CONDITION MUD & CIRCULATE

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 Cost 1,031	Mud Cum To Date 5,619		
Depth (mKB) 1,026.00	Density (kg/m³) 1050.0	Funnel Viscosity (s/L) 58	pH 11.5	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
SAWDUST CODE 1122	6.53	15.0
CAUSTIC SODA BEADS	44.63	3.0
SODA ASH CODE 1169	21.19	6.0
HUMALITE CODE1084	16.58	9.0
MILLZAN	522.35	1.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46

DRILLING SUMMARY

Depth Start (mKB) 926.00	Depth End (mKB) 980.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 90	Motor RPM (rpm)	Bit RPM (rpm) 90	Slack-Off Hook Load (daN)	Drilling Time (hrs) 6.00		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU
Rig: 436 Precision Drilling

Report For: 1/23/2010

Report #: 11.0

Depth Progress: 105.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 63,299

Cum Cost to Date: 923,816

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 6.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILLING SUMMARY

Depth Start (mKB) 975.00	Depth End (mKB) 1,014.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 9.50		
Depth Start (mKB) 1,014.00	Depth End (mKB) 1,026.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 2.50		

SAFETY CHECKS

Date	Type	Description
1/24/2010	Weekly Rig Inspection	

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)

SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
1/23/2010	943.00	8.00	0.00	941.88	29.64	0.53	29.64	3.49
1/23/2010	963.00	8.00	0.00	961.68	32.42	0.53	32.42	0.00
1/23/2010	991.00	8.00	0.00	989.45	35.77	1.74	35.77	40.77

FORMATIONS

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



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/24/2010

Report #: 12.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 46,056

Cum Cost to Date: 969,872

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 7.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,026.0	Depth End (mKB) 1,026.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather OVERCAST	Temperature (°C) -27	Lease Condition
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Operation at 6am

DIRECTIONAL DRILLING WITH TO 1089m. SEVERE LOSSES

Operations Summary

CIRCULATE AND WAIT ON DIRECTIONAL TOOLS. POOH TO PICK UP DIRECTIONAL ASSEMBLY. ENCOUNTERED SOME TIGHT SPOTS (12 daN OVERPULL) THROUGH THE LOSS ZONE BETWEEN 700m AND 550m. FLOW CHECK WELL AND OBSERVE SEVERE LOSSES. MIX LCM AND CONTROL LOSSES AT CONTROL LOSSES. TOTAL LOSSES OF 28m3. POOH AND CHANGE BHA TO DIRECTIONAL ASSEMBLY. RIH WITH DIRECTIONAL ASSEMBLY AND TAKE SURVEY CHECK SHOTS EVERY 120m TO CONFIRM ANGLE AND DIRECTION. ESTABLISH CORRECTION PLAN AND DIRECTIONAL DRILL FROM 1026m - 1027. LOST CIRCULATION. MIXED LCM AND ESTABLISHED CIRCULATION (TOTAL LOSSES 25m3). CIRCULATE TO BUILD VOLUME AND CONDITION MUD AT 1027m

Operations Next Report Period

MIX LCM TO CONTROL LOSSES. POOH TO REPAIR LOSSES

Remarks

DIRECTIONAL SURVEYS FROM 389m - 987m. SURVEY AT 987m INC - 7.6 AZM - 40.8.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE, FUNCTIONED ANNULAR PREVENTER C/O 8 SECONDS
00:15	01:45	1.50	1.75	Circulate And Condition	CIRCULATE AND CONDITION WHILE WAITING ON DIRECTIONAL PERSONEL
01:45	05:45	4.00	5.75	Trips	TRIPS, POOH, FLOW CHECK @ 1026,974,830,745,500M COULD NOT KEEP HOLE FULL AT 500M FLOW CHECK, RAN IN TO 600M
05:45	08:00	2.25	8.00	Condition mud & circulate	CONDITION MUD & CIRCULATE, ADD SAWDUST AND CAL.CARB
08:00	09:45	1.75	9.75	Condition mud & circulate	CONDITION MUD & CIRCULATE.BUILD LCM PILL.SPOT ON TOP OF THIEF ZONE.BLOW KELLY AND WINTERRIZE RIG
09:45	12:30	2.75	12.50	Trip out of hole	TRIP OUT OF HOLE TO PICK UP DIRECTIONAL TOOLS.FLOW CHECK AT 539M,150M,0M. FUNCTIONED BLIND RAMS WHILE OUT OF HOLE
12:30	12:45	0.25	12.75	Safety meeting	SAFETY MEETING WITH DEPARTURE ENERGY SERVICES
12:45	14:45	2.00	14.75	Handle directional tools	HANDLE DIRECTIONAL TOOLS.PICK UP AND MAKE TOOLS UP
14:45	16:15	1.50	16.25	Trip in hole	TRIP IN HOLE WITH DIRECTIONAL TOOLS,BHA AND 9 STANDS OF DRILL PIPE TO TEST MWD TOOLS FLOW CHECK AT 373M
16:15	16:30	0.25	16.50	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 5 SECS
16:30	17:00	0.50	17.00	Directional surveys	DIRECTIONAL SURVEYS KELLY UP AND PUMP MWD TOOLS FOR SURVEY
17:00	20:00	3.00	20.00	Trip in hole	TRIP IN HOLE.RUN 10 STANDS AND KELLY UP FOR SURVEY EVERY 6 STANDS
20:00	21:45	1.75	21.75	Condition mud & circulate	WASH TO BOTTOM FROM 1004M TO 1026M
21:45	22:30	0.75	22.50	Drill	DIRECTIONAL DRILL 200MM HOLE FROM 1026 -1027M
22:30	00:00	1.50	24.00	Condition mud & circulate	LOSS CIRCULATION PICK UP AND CONDITION MUD & BUILD VOLUME



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/24/2010

Report #: 12.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 46,056

Cum Cost to Date: 969,872

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 7.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

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 Cost		Mud Cum To Date 5,619
Depth (mKB) 1,026.00	Density (kg/m³) 1040.0	Funnel Viscosity (s/L) 45	pH 10.5	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
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MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		
Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/24/2010

Report #: 12.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 46,056

Cum Cost to Date: 969,872

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 7.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
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SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)
1/25/2010	1,026.41	5.50	41.80	1,024.63	39.16	3.62	39.16	1.73
1/25/2010	1,035.93	4.20	43.30	1,034.11	39.75	4.16	39.75	4.12
1/25/2010	1,045.41	2.60	48.90	1,043.58	40.15	4.56	40.15	5.17
1/25/2010	1,054.90	1.90	65.80	1,053.06	40.35	4.87	40.35	3.03
1/25/2010	1,064.39	1.80	79.50	1,062.54	40.44	5.16	40.44	1.43

FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/25/2010

Report #: 13.0

Depth Progress: 63.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 54,156

Cum Cost to Date: 1,024,029

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 8.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,026.0	Depth End (mKB) 1,089.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather CLEAR	Temperature (°C) -31	Lease Condition
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Operation at 6am

TRIP OUT WITH OPEN END PIPE PIPE

Operations Summary

DIRECTIONAL DRILL FROM 1026m - 1089m. SEVERE TO TOTAL LOSSES FROM 1075m. TRIP OUT OF HOLE TO ADDRESS LOSSES. TIGHT HOLE FROM 692m - 549m. UNABLE TO KEEP HOLE FULL. REMOVE MWD AND CLEAN OUT LCM PLUG. CLEAN AND DRAIN MOTOR. PREPARE MUD TANKS TO MIX FRAC ATTACK PILL. TRIP IN HOLE OPEN END TO 703m AND ATTEMPT TO CIRCULATE. COULD NOT ESTABLISH CIRCULATION. MIX WEIGHTED FRAC ATTACK PILL IN SUCTION TANK. PUMP AND SPOT 2.3m3 FRAC ATTACK PILL AT 703m. PULL OUT OF PILL TO 548m AND CIRCULATE BOTTOMS UP.

Operations Next Report Period

RUN FRAC ATTACK PILLS THROUGH LOSS ZONE. SQUEEZE PILL FROM CASING SHOE. DRILL OUT FRAC ATTACK PILLS. DIRECTIONALLY DRILL

Remarks

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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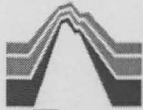
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	02:15	2.25	2.25	Drill	DIRECTIONAL DRILL 200mm HOLE FROM 1026 - 1051M
02:15	02:30	0.25	2.50	Rig Service	RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS
02:30	07:15	4.75	7.25	Drill	DIRECTIONAL DRILL 200mm HOLE FROM 1051 - 1089M. TOTAL LOSS OF CIRCULATION
07:15	08:00	0.75	8.00	Directional surveys	DIRECTIONAL SURVEYS (ACCUMULATIVE)
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTIONED ANNULAR PREVENTER C/O 8 SECS, HCR C/O 3 SEC.
08:15	14:00	5.75	14.00	Trips	TRIP OUT OF HOLE.BLOW KELLY AND WINTERRIZE RIG FLOW CHECK AT1077M, 1034, 544M, 166M, 0M. TIGHT HOLE AT 692M, 612M, 566M, AND 549M, ATFUNCTIONED BLIND RAMS WHILE ON BANK
14:00	14:15	0.25	14.25	Safety meeting	SAFETY MEETING WITH DEPARTURE ENERGY SERVICES
14:15	15:00	0.75	15.00	Handle directional tools	HANDLE DIRECTIONAL TOOLS.LAYING OUT OR RACKING BACK MOTOR AND MONNEL.PULL MWD TOOL AND CHECK MOTOR FOR BEING PLUGGED WITH LCM MATERIAL
15:00	15:15	0.25	15.25	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 5 SECS
15:15	17:15	2.00	17.25	Other	CLEAN RIG FLOOR AND GET EQUIPMENT READY TO RUN IN TO SPOT FRAC ATTACK.WINTERRIZE TRIP TANK
17:15	19:15	2.00	19.25	TRIPS	RUN IN HOLE TO THIEF ZONE AT 700M .FLOW CHECK AT 0M,377M,702M
19:15	22:45	3.50	22.75	Other	MIX 180 BAGS FRAC ATTACK PRODUCT AND BARITE
22:45	00:00	1.25	24.00	Condition mud & circulate	PUMP FRAC ATTACK PILL AT 700M, PULL UP TO 548M CIRCULATED
00:00	00:00		24.00		
00:00	00:00		24.00		



Paramount
resources ltd.

Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/25/2010

Report #: 13.0

Depth Progress: 63.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 54,156

Cum Cost to Date: 1,024,029

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 8.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

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 Cost 1,970		Mud Cum To Date 7,589	
Depth (mKB) 27.79	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 29	pH 8.5	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
CAUSTIC SODA BEADS	44.63	1.0
MILLZAN	522.35	1.0
DEFOAMER XL	169.17	3.0
SAWDUST CODE 1122	6.53	90.0
CELLOFLAKES CODE 1240	72.40	2.0
SAWDUST CODE 1122	6.53	25.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
		Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46

DRILLING SUMMARY

Depth Start (mKB) 1,026.00	Depth End (mKB) 1,089.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 16	Motor RPM (rpm)	Bit RPM (rpm) 16	Slack-Off Hook Load (daN)	Drilling Time (hrs) 7.00		
Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/25/2010

Report #: 13.0

Depth Progress: 63.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 54,156

Cum Cost to Date: 1,024,029

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 8.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
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SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

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

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/26/2010

Report #: 14.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 36,608

Cum Cost to Date: 1,060,637

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 9.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,089.0	Depth End (mKB) 1,089.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
Weather CLEAR	Temperature (°C) -23	Lease Condition	

Operation at 6am

WASHING TO 600m TO CLEAN HOLE PRIOR TO SPOT PILL

Operations Summary

PUMP AND SPOT 2.3m3 FRAC ATTACK PILL #2 AT 628m. PULL OUT OF PILL TO 475m AND CIRCULATE BOTTOMS UP. RUN IN TO 554m. PUMP AND SPOT 3.1m3 FRAC ATTACK PILL #3 AT 554m. PULL OUT OF PILL TO 354m AND CIRCULATE BOTTOMS UP. SQUEEZE FRAC ATTACK PILLS WITH 1m3 OF FRESH WATER USING PRESSURE OF 1000kpa - 1500kpa. CIRCULATE. SQUEEZE FRAC ATTACK PILLS WITH 0.25m3 FRESH WATER USING PRESSURE OF 2000kpa. CIRC AND REPEAT SQUEEZE USING 0.25m3 FRESH WATER USING PRESSURE OF 2000kpa. TRIP OUT OF HOLE FOR DIRECTIONAL TOOLS. TRIP IN HOLE WITH DIRECTIONAL TOOLS TO 377m. SLIP AND CUT. WASH AND REAM FRAC ATTACK PILLS FROM 490m - 623m. ENCOUNTERED TOTAL LOSSES AT 613m. TRIP OUT OF HOLE TO REMOVE MOTOR AND MWD. MIX FRAC ATTACK PILL #4

Operations Next Report Period

SPOT AND SQUEEZE FRAC ATTACK PILL, DRILL OUT, TRIP OUT FOR MOTOR. TRIP IN. DRILL AHEAD

Remarks

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	01:15	1.25	1.25	Condition mud & circulate	PUMP FRAC ATTACK PILL # 2 @ 628M PULL UP TO 475M CIRCULATE
01:15	02:30	1.25	2.50	Condition mud & circulate	PUMP FRAC ATTACK PILL # 3 @ 554M PULL UP TO 354M CIRCULATE
02:30	03:30	1.00	3.50	Condition mud & circulate	SQUEEZE FRAC ATTACK PILLS WITH ONE CUBE FRESH WATER,PRESSURES BETWEEN 1000 AND 1500 KPA
03:30	04:00	0.50	4.00	Condition mud & circulate	CIRCULATE AT 352M
04:00	04:15	0.25	4.25	Condition mud & circulate	SQUEEZE # 2 OF FRAC ATTACK PILL WITH .25 CUBE FRESH WATER, PRESSURE AT 2000 KPA
04:15	04:45	0.50	4.75	Condition mud & circulate	CIRCULATE AT 352M
04:45	05:00	0.25	5.00	Condition mud & circulate	SQUEEZE # 3 , PRESSURE TO 2000 KPA
05:00	06:15	1.25	6.25	Trips	TRIPS, POOH, FC @ 352,334,0M FUNCTIONED BLIND RAMS WHILE OUT OF HOLE
06:15	08:00	1.75	8.00	Trips	TRIPS, MAKE UP DIRECTIONAL TOOLS AND RUN IN.FLOW CHECK AT 0M,377M,
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 5 SECS, HCR C/O 3 SEC.
08:15	08:30	0.25	8.50	Safety meeting	SAFETY MEETING WITH DEPARTURE ENERGY SERVICES
08:30	11:30	3.00	11.50	Trips	UNPLUG MONNEL AND UBHO SUB FROM LCM MATERIAL.MAKE UP TOOLS AND RESET MOTOR.INSTALL MWD TOOL AND ORIENTATE.RUN IN BHA AND 9 STANDS OF DRILL PIPE TO THE SHOE.FLOW CHECK 0M,377,
11:30	11:45	0.25	11.75	Drills/BOP, etc.	BOP DRILL WHILE TRIPPING.MACP IS 3088 KPA.WELL SECURE IN 68 SECS
11:45	12:30	0.75	12.50	Slip/Cut drilling line	SLIP/CUT DRILLING LINE
12:30	12:45	0.25	12.75	Safety meeting	SAFETY MEETING WITH RIG MANAGER.



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/26/2010

Report #: 14.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 36,608

Cum Cost to Date: 1,060,637

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 9.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
12:45	16:00	3.25	16.00	Trips	RUN IN 2 STANDS OF PIPE TO TEST MWD TOOLS. RAN 16 STANDS TO 506M. LAY OUT 12 SINGLES KELLY UP TO FLUSH TOOLS. LAY DOWN 8 MORE SINGLES. RUN IN 10 STANDS TO 506M
16:00	16:15	0.25	16.25	Rig Service	RIG SERVICE FUNCTIONED ANNULAR PREVENTER C/O 8 SECS
16:15	20:00	3.75	20.00	Ream & Clean	WASH AND REAM THROUGH FRAC ATTACK PILLS. TOP OF FIRST PILL WAS AT 490M. REAM TO 594M
20:00	21:00	1.00	21.00	Reaming	REAMING FRAC ATTACK PILLS FROM 594 - 623M. TOTAL LOSSES AT 613M
21:00	21:45	0.75	21.75	Condition mud & circulate	HOLE TAKING FLUID, CIRCULATE AT REDUCED PUMP SPEED, WAIT IN FRAC ATTACK PRODUCT
21:45	00:00	2.25	24.00	Trips	TRIPS, POOH, FC @ 634,602,370M

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 Cost	Mud Cum To Date		
			1,015	8,604		
Depth (mKB) 612.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 31	pH	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
DEFOAMER XL	169.17	6.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
		Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/26/2010

Report #: 14.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 36,608

Cum Cost to Date: 1,060,637

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 9.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILLING SUMMARY

Depth Start (mKB) 1,089.00	Depth End (mKB) 1,089.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 1,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 27	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 3.75		

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
1/27/2010	BOP Drill	Crew change BOP Drill. Well secure 67 sec

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (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)



Paramount
resources Ltd.

Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/27/2010

Report #: 15.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 44,405

Cum Cost to Date: 1,105,042

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 10.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,089.0	Depth End (mKB) 1,089.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
Weather CLEAR	Temperature (°C) -17	Lease Condition	

Operation at 6am

WASHING AND REAMING AT 626m WITH NO RETURNS

Operations Summary

TRIP OUT OF HOLE (SWABBING) TO REMOVE DIRECTIONAL ASSEMBLY. TRIP IN HOLE WITH SLICK ASSEMBLY AND BIT TO SPOT FRAC ATTACK PILL #4. HOLE BRIDGED AT 477m. WASHED AND REAMED FROM 477m - 600m. PULL UP TO 538m. PUMP AND SPOT 4.5m3 OF FRAC ATTACK AT PILL AT 538m. PULL OUT OF PILL TO CASING SHOE AT 377m. CIRCULATE WHILE WAITING ON FRAC ATTACK PILL. SHUT IN WELL AND SQUEEZE AWAY 1m3 AT 1300kpa. LAY DOWN 18 SINGLES. TRIP IN HOLE TO 500m. WASH AND REAM FRAC ATTACK PILL FROM 500m - 545m. CIRCULATE BOTTOMS UP AND TRIP TO CASING SHOE AT 377m. SHUT IN WELL AND SQUEEZE 0.5m3 OF FLUID AT 1000kpa - 1500kpa. TRIP IN HOLE TO 550m. WASH AND REAM FRAC ATTACK PILL FROM 545m - 630m. TOTAL LOSS OF CIRCULATION AT 630m. TRIP OUT OF HOLE. TIGHT HOLE FROM 630m - 539m

Operations Next Report Period

CLEAN OUT HOLE TO 720m, TRIP OUT TO PUMP CEMENT PLUGS

Remarks

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	01:30	1.50	1.50	Trips	TRIPS, POOH, FLOW CHECK @ 370,150,0m
01:30	02:00	0.50	2.00	Handle directional tools	STAND DIRECTIONAL TOOLS IN DERRICK
02:00	03:45	1.75	3.75	Trips	TRIPS,RIH, FC @ 0,370,317m
03:45	04:15	0.50	4.25	Condition mud & circulate	HIT BRIDGE AT 477m REAMED AND CIRCULATED BOTTOMS UP. OBSERVE AT SHAKER LARGE AMOUNT OF FRAC ATTACK PILL.
04:15	08:00	3.75	8.00	Reaming	WASH AND REAM TO 600m
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE.FUNCTIONED PIPE RAMS C/O 4 SECS.FUNCTIONED HCR C/O 3 SECS
08:15	08:30	0.25	8.50	Condition mud & circulate	PUMP 3.6m3 FRAC ATTACK PILL AT 538m
08:30	09:00	0.50	9.00	Trips	TRIPS.PULL 9 STANDS INTO CASING.FLOW CHECK AT 538m, 369m
09:00	11:15	2.25	11.25	Circulate And Condition	CIRCULATE IN CASING WHILE WAITING ON FRAC ATTACK PILL
11:15	11:30	0.25	11.50	Test formation	SQUEEZE ON FRAC ATTACK PILL. PUMPED 1m3 AT 1300 kpa
11:30	12:15	0.75	12.25	Circulate And Condition	CIRCULATE IN CASING TO SEE IF FRAC ATTACK PILL SET UP.BLOW 2 INCH BACK TO MOUSE HOLE
12:15	13:30	1.25	13.50	Lay down drill pipe	LAY DOWN DRILL PIPE .FLOW CHECK AT 377M,189M,
13:30	14:15	0.75	14.25	Trip in hole	TRIP IN HOLE TO 500M KELLY UP AND WASH TO 550M.FLOW CHECK AT 189M,377M,
14:15	15:45	1.50	15.75	Ream & Clean	WASH AND REAM ON FRAC ATTACK PILL.STARTED REAMING AT 455M TO 515M
15:45	16:00	0.25	16.00	Condition mud & circulate	CIRCULATE BOTTOMS UP
16:00	16:45	0.75	16.75	Trips	TRIPS PULL INTO CASING SHOE 7 STANDS



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/27/2010

Report #: 15.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 44,405

Cum Cost to Date: 1,105,042

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 10.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
16:45	17:30	0.75	17.50	Test wellhead/tree	CLOSE ANNUULAR AND SQUEEZE ON ON FRAC ATTACK PILL. PUMPED 0.5 m3 WITH 1600 kpa
17:30	18:00	0.50	18.00	Trips	TRIPS ,RUN 7 STANDS BACK IN HOLE
18:00	18:15	0.25	18.25	Drills/BOP, etc.	DRILLS/BOP,WELL SUCURE IN 67 SECONDS
18:15	20:00	1.75	20.00	Ream & open hole	REAM - OPEN HOLE FROM 525M TO 600m
20:00	23:30	3.50	23.50	Ream & Clean	REAM & CLEAN, TOTAL LOSS OF CIRCULATION @ 630 m
23:30	00:00	0.50	24.00	Trips	WORK TIGHT HOLE FROM 630m TO 539m, PULL REST OUT OF HOLE

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 Cost	134		Mud Cum To Date 8,738
Depth (mKB) 551.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 31	pH 8.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
CAUSTIC SODA BEADS	44.63	3.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Volumetric Efficiency (%)		

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/27/2010

Report #: 15.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 44,405

Cum Cost to Date: 1,105,042

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 10.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
1/28/2010	Safety Meeting	RUNNING IN DRILL COLLARS

SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
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FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/28/2010

Report #: 16.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 85,718

Cum Cost to Date: 1,190,759

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 11.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,089.0	Depth End (mKB) 1,089.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
Weather CLEAR	Temperature (°C) -23	Lease Condition	

Operation at 6am

WASHING AT TO TOP OF CEMENT PLUG #1 AT 576m.

Operations Summary

TRIP OUT OF HOLE TO PICK UP DRILL COLLARS AND JARS. TRIP IN THE HOLE TO REAM OUT FRAC ATTACK PILL. WASH AND REAM FRAC ATTACK PILL FROM 530m - 719m. DRILL WAS PACKING OFF AND HYDRAULICING. TRIP OUT OF HOLE TO 606m. ATTEMPT TO CIRCULATE. TRIP OUT TO 418m AND CIRCULATE TO CLEAN DRILLING ASSEMBLY. TRIP IN HOLE AND WASH TO BOTTOM. CIRCULATE HOLE CLEAN WITH PATIAL CIRCULATION. TRIP OUT OF HOLE TO 378m TO RUN CEMENT PLUGS. PERFORM WEEKLY ACCUMULATOR CHECK. TRIP OUT OF HOLE. TRIP IN THE HOLE WITH OPEN END DRILL PIPE TO 684m. BRIDGED AT 684m. WASH 28m TO BOTTOM AT 712m. MIX AND PUMP 7 TONNE OF EXPANDO MIX WITH 2% CACL2 AND 3% LCC-1. PULL OUT OF PLUG#1 TO 378m

Operations Next Report Period

PUMP CEMENT PLUG#2, WOC, DRILL OUT CEMENT, TRIP TO BOTTOM, CONDITION MUD

Remarks

CALCULATED CEMENT PLUG#1 HEIGHT 189m. PULLED 22daN OVER STRING WEIGHT TO START PULLING OUT OF CEMENT PLUG. RECONCILED MUD PRODUCT USAGE TODAY.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	01:15	1.25	1.25	Trip out of hole	TRIP OUT OF HOLE TO MAKE UP NEW BHA
01:15	01:30	0.25	1.50	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 5 SECS, BLIND RAMS C/O 4 SEC.
01:30	03:45	2.25	3.75	Trip in hole	TRIP IN HOLE TO 530M TO WASH FRAC ATTACK PILL TO 630M.FLOW CHECK AT OM,377M.
03:45	08:00	4.25	8.00	Ream & Clean	REAM & CLEAN FROM 530M TO 660M
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTION ANNULAR C/O 8 SECONDS
08:15	09:30	1.25	9.50	Reaming	REAMING FROM 630m TO 720m
09:30	10:30	1.00	10.50	Trips	TRIPS LAY OUT SINGLES FROM 720m TO 606m
10:30	12:00	1.50	12.00	Trips	TRIPS RACK 6 STANDS IN DERRICK TRY TO BEAK CIRCULATION
12:00	12:15	0.25	12.25	Condition mud & circulate	CONDITION MUD & CIRCULATE
12:15	13:00	0.75	13.00	Trips	TRIPS, RUN IN 10 STANDS
13:00	13:15	0.25	13.25	Circulate And Condition	BREAK CIRCULATION
13:15	13:30	0.25	13.50	Condition mud & circulate	CONDITION MUD & CIRCULATE
13:30	16:30	3.00	16.50	Trips	TRIPS, LAY OUT 11 SINGLES ,RACK REST IN DERRICK CF @378m
16:30	16:45	0.25	16.75	Rig Service	RIG SERVICE FUNCTION HCR C/O 3 SECONDS
16:45	17:00	0.25	17.00	Safety inspection	SAFETY INSPECTION,ACCUMULATOR CHECK STARTING PRESSURE 16500KPA,CLOSE HYDRIL,OPEN HYDRIL, CLOSE PIPERAMS,REMAINING PRESSURE 10500KPA,RECHARGE 88 SEC., PRECHARGE 7000KPA,N2 2500PSI X 2 , FUNCTION MOTOR KILLS,
17:00	19:00	2.00	19.00	Trips	FINISH TRIP OUT.FUNCTIONED BLIND RAMS WHILE ON BANK,C/O 4 SEC.
19:00	21:00	2.00	21.00	Trips	TRIP IN HOLE TO 712 METERS TO SET FIRST CEMENT PLUG.FLOW CHECK AT SHOE 377M
21:00	22:30	1.50	22.50	Ream & Clean	REAM & CLEAN LAST 3 SINGLES TO BOTTOM FOR CEMENT PLUG.
22:30	22:45	0.25	22.75	Safety meeting	SAFETY MEETING WITH SANJEL CEMENTING.



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/28/2010

Report #: 16.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 85,718

Cum Cost to Date: 1,190,759

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 11.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
22:45	23:15	0.50	23.25	Cement plugs	MIX AND PUMP CEMENT PLUG#1 SPOT CALCULATED 189m PLUG AT 712M.
23:15	00:00	0.75	24.00	Trip out of hole	TRIP OUT OF HOLE,PULL 18 STANDS TO COME OUT OF FIRST CEMENT PLUG. FLOW CHECK AT 377M
00:00	00:00		24.00		

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 Cost 47,269	Mud Cum To Date 56,008		
Depth (mKB) 676.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 30	pH 8.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
ALKAPAM 1103D CODE 1007	211.93	7.0
BARITE CODE 1019	22.29	49.0
BENTONITE CODE 1023	14.69	218.0
CAL CARB O CODE 1037	11.36	5.0
CELLOFLAKES CODE 1240	72.40	2.0
DEFOAMER XL	169.17	9.0
DESCO CODE 1054	80.46	2.0
DRILLING DETERGENT	62.35	4.0
ENVIROFLOC CODE 1065	43.63	59.0
FRAC ATTACK	125.00	240.0
HUMALITE CODE1084	16.58	1.0
HYPER DRILL 247RD 1302	221.55	4.0
KWIKSEAL COURSE CODE 1081	34.01	5.0
MILLZAN	522.35	2.0
MTL SHURE SHALE	195.11	10.0
SAWDUST CODE 1122	6.53	214.0
TKPP CODE 1401	150.51	2.0
ULTRA PAC R	203.10	5.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/28/2010

Report #: 16.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 85,718

Cum Cost to Date: 1,190,759

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 11.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
1/28/2010	Safety Meeting	CEMENTING PLUGS
1/29/2010	Safety Meeting	DRILL OUT CEMENT WITH DIRCTIONAL TOOLS

SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
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FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/29/2010

Report #: 17.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 72,721

Cum Cost to Date: 1,263,480

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 12.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,089.0	Depth End (mKB) 1,089.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
Weather CLEAR	Temperature (°C) -28	Lease Condition	

Operation at 6am

WASHING TO BOTTOM AT 774m. UNABLE TO RUN STANDS

Operations Summary

PULL OUT OF PLUG TO CASING SHOE AND CIRCULATE WHILE WOC. TRIP IN AND FEEL PLUG AT 576m. CIRCULATE HOLE CLEAN. MIX, PUMP, AND SPOT 2.5 TONNE OF EXPANDO MIX WITH 2% CACL2 AND 3% LCC-1. PULL OUT OF PLUG TO CASING SHOE AND CIRCULATE BOTTOMS UP. TRIP OUT OF HOLE TO PICK UP DIRECTIONAL ASSEMBLY WHILE WOC. TRIP IN TO HOLE AND TAG CEMENT PLUG AT 526m. DRILL OUT CEMENT PLUGS FROM 526m - 681m.

Operations Next Report Period

DRILL OUT CEMENT PLUGS, TRIP IN TO 1089m, CONDITION MUD, DRILL AHEAD

Remarks

MINOR LOSSES (12m3) FROM 586m - 625m. MINOR LOSSES (5m3) FROM 705m - 727m.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	03:00	3.00	3.00	Circulate And Condition	CIRCULATE BOTTOMS UP AFTER PUMPING FIRST CEMENT PLUG. CIRCULATE UNTIL TIME TO RUN IN AND FEEL FIRST CEMENT PLUG
03:00	04:30	1.50	4.50	Trip in hole	TRIP IN HOLE TO 566M. RUN IN TO FEEL TOP OF FIRST CEMENT PLUG. FLOW CHECK AT 377 METERS. TAGGED FIRST CEMENT PLUG AT 576 METERS
04:30	06:30	2.00	6.50	Circulate And Condition	CIRCULATE HOLE CLEAN TO FEEL FIRST CEMENT PLUG
06:30	06:45	0.25	6.75	Pre-job safety	PRE-JOB SAFETY WITH SANJEL
06:45	07:15	0.50	7.25	Cement plugs	RUN SECOND CEMENT PLUG
07:15	07:45	0.50	7.75	Trips	TRIPS , PULL OUT OF CEMENT RACK 9 STANDS IN DERRICK
07:45	08:00	0.25	8.00	Circulate And Condition	CIRCULATE
08:00	08:15	0.25	8.25	Circulate And Condition	CIRCULATE
08:15	09:00	0.75	9.00	Trips	TRIPS PULL 21 STANDS INTO DERRICK
09:00	10:45	1.75	10.75	Wait on cement	WAIT ON CEMENT
10:45	11:00	0.25	11.00	Pre-job safety	PRE-JOB SAFETY WITH DIRECTIONAL HANDS
11:00	14:30	3.50	14.50	Trips	TRIPS RUN IN WITH DIRECTIONAL TOOLS, TAG CEMENT @526m
14:30	16:00	1.50	16.00	Drill cement/drill out cement/drill float&shoe	DRILL CEMENT PLUGS FROM 526m
16:00	16:15	0.25	16.25	Rig Service	RIG SERVICE FUNCTION ANNULAR C/O 8 SECONDS
16:15	20:00	3.75	20.00	Drill cement/drill out cement/drill float&shoe	DRILL CEMENT PLUGS 623M
20:00	00:00	4.00	24.00	Drill cement/drill out cement/drill float&shoe	DRILL CEMENT PLUGS FROM 623 METERS TO 681 METERS
00:00	00:00		24.00		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/29/2010

Report #: 17.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 72,721

Cum Cost to Date: 1,263,480

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 12.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

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 Cost		Mud Cum To Date 56,008
Depth (mKB) 685.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 29	pH 8.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
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MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46

DRILLING SUMMARY

Depth Start (mKB) 526.00	Depth End (mKB) 623.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 2,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 30	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 5.25		
Depth Start (mKB) 624.00	Depth End (mKB) 681.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 2,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 27	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 4.00		
Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/29/2010

Report #: 17.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 72,721

Cum Cost to Date: 1,263,480

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 12.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
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SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
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FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/30/2010

Report #: 18.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 57,648

Cum Cost to Date: 1,321,129

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010		DFS: 13.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,089.0	Depth End (mKB) 1,089.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
Weather CLEAR	Temperature (°C) -22	Lease Condition	

Operation at 6am

CIRCULATING @ 466 M WHILE WOC PLUG #1

Operations Summary

DRILLED CEMENT PLUGS FROM 681 - 738 M SEVERAL TIGHT CONNECTIONS FROM 643 - 681 M. CIRCULATED HOLE CLEAN. RAN DRILL PIPE TO 744 M, TOOK WEIGHT. WASHED AND REAMED FROM 744 TO 902 M. REPAIRED MAIN HYDRAULIC PUMP ON RIG. CONTINUED TO WASH AND REAM FROM 902 TO 940 M. TOTAL LOSS OF CIRCULATION. TRIPPED OUT OF HOLE TO 522 M, HOLE SWABBING, CIRCULATED OUT FRAC ATTACK UNTIL CLEAN. RAN IN TO 528 AND BRIDGED OFF. WASHED FROM 528 TO 541 M AND CLEANED HOLE. TRIPPED OUT OF HOLE TO CASING SHOE - HOLE SWABBING. CIRCULATED AT 387 M. MINOR FRAC ATTACK CIRCULATED OUT. TRIPPED OUT AND RACKED - BACK DIRECTIONAL TOOLS. TRIPPED IN OPEN-ENDED TO RUN 3 & 4TH CEMENT PLUGS.

Operations Next Report Period

TRIP IN TO 730 M OPEN ENDED AND RUN PLUGS #3 & 4 AND DRILL OUT

Remarks

3+ M3 OF FRAC ATTACK UNLOADED FROM WELL . MINOR SURGING WHILE CIRCULATING AT 528 - 541 M & AT 387 M

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 4 SECS
00:15	04:00	3.75	4.00	Drill cement/drill out cement/drill float&shoe	FINISH DRILLING CEMENT PLUGS TO 738 METERS.TIGHT ON CONNECTIONS FROM 643M TO 681M
04:00	04:30	0.50	4.50	Circulate And Condition	CIRCULATE BOTTOMS UP BEFORE RUNNING TO BOTTOM
04:30	05:00	0.50	5.00	Trip in hole	TRIP IN HOLE.RUN TO 740M. HOLE TAKING WEIGHT. FLOW CHECK AT 725M.BLOW KELLY
05:00	05:30	0.50	5.50	Ream & Clean	REAM & CLEAN.OPEN HOLE.
05:30	06:00	0.50	6.00	Trip in hole	TRIP IN HOLE.BLOW KELLY
06:00	08:00	2.00	8.00	Ream & Clean	REAM & CLEAN OPEN HOLE
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTION ANNULAR C/O 8 SECONDS
08:15	10:15	2.00	10.25	Ream & Clean	REAM & CLEAN 825m TO 902m
10:15	10:30	0.25	10.50	Safety meeting	SAFETY MEETING WITH RIG MANAGER
10:30	11:30	1.00	11.50	Rig Repair	RIG REPAIR , REPLACE MAIN HYDRAULIC PUMP
11:30	12:15	0.75	12.25	Ream & Clean	REAM & CLEAN FROM 902mTO 931m
12:15	12:30	0.25	12.50	Other	LUNCH
12:30	13:45	1.25	13.75	Ream & Clean	REAM & CLEAN FROM 931m TO 938m LOSS CIRCULATION
13:45	15:30	1.75	15.50	Trips	TRIPS, FC@938,894m PULL UP TO 522m
15:30	16:00	0.50	16.00	Condition mud & circulate	CIRCULATE @ 522m , CLEAN HOLE
16:00	20:00	4.00	20.00	Trip out of hole	TRIP OUT OF HOLE.FLOW CHECK AT 469M,377M,
20:00	20:15	0.25	20.25	Safety meeting	SAFETY MEETING WITH RIG MANAGER ABOUT WEEKLY FOCUS
20:15	22:15	2.00	22.25	Trip out of hole	TRIP OUT OF HOLE TO LAY OUT DIRECTIONAL TOOLS.FLOW CHECK AT 386M,166M,0M. FUNCTIONED BLIND RAMS WHILE ON BANK C/O 3 SECS
22:15	22:30	0.25	22.50	Safety meeting	SAFETY MEETING WITH DIRECTIONAL HANDS,TAKE OUT MWD TOOLS AND RACK MONNEL AND MOTOR IN DERRICK



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/30/2010

Report #: 18.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 57,648

Cum Cost to Date: 1,321,129

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 13.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
22:30	00:00	1.50	24.00	Trip in hole	TRIP IN HOLE OPEN ENDED TO RUN CEMENT PLUGS.FLOW CHECK AT OM,377M,
00:00	00:00		24.00		

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 Cost 978	Mud Cum To Date 56,985		
Depth (mKB) 883.00	Density (kg/m³) 1030.0	Funnel Viscosity (s/L) 34	pH 11.5	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
MILLZAN	522.35	1.0
MTL SHURE SHALE	195.11	2.0
SAWDUST CODE 1122	6.53	10.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
		Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46

DRILLING SUMMARY

Depth Start (mKB) 681.00	Depth End (mKB) 832.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 2,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 27	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 6.25		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/30/2010

Report #: 18.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 57,648

Cum Cost to Date: 1,321,129

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 13.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILLING SUMMARY

Depth Start (mKB) 832.00	Depth End (mKB) 931.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 30	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 4.00		

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ----
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
1/31/2010	Safety Meeting	PROPER CROWN SAVER FUNCTIONING

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (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 M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/31/2010

Report #: 19.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 62,766

Cum Cost to Date: 1,383,895

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 14.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,089.0	Depth End (mKB) 1,089.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather OVERCAST	Temperature (°C) -18	Lease Condition
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Operation at 6am

DRILLING OUT CEMENT PLUGS TO 575 M

Operations Summary

TRIPPED IN HOLE, CIRCULATED THROUGH BRIDGES AT 480 & 552 M. TRIPPED IN HOLE TO 732 M, CIRCULATED MINOR FRAC ATTACK AND RAN PLUG #3 - 7t OF EXPANDOMIX WITH NO RETURNS TO SURFACE. PULLED BACK TO 500 M AND CIRCULATED HOLE CLEAN, ATTEMPTED TO SQUEEZE, WOULD NOT HOLD PRESSURE. WOC. TRIPPED IN AND WASHED FRAC ATTACK FROM 532 TO 592 M. STARTED TO LOSE RETURNS. RAN PLUG #4 - 6t OF EXPANDOMIX AND PULLED INTO CASING. CIRCULATED HOLE CLEAN, NO CEMENT BACK. HELD 1 - 1.5 MPA SQUEEZE PRESSURE FOR 15 MINUTES. TRIPPED OUT OF HOLE FOR DIRECTIONAL TOOLS. TRIPPED IN AND TAGGED CEMENT/Frac ATTACK AT 405 M. REAMED/DRILLED CEMENT PLUGS TO 481 M BY MIDNIGHT

Operations Next Report Period

DRILL PLUGS TO 732 M, TRIP IN HOLE AND DRILL AHEAD

Remarks

PLUG #3 & 4 TAGGED HIGHER THAN CALCULATED SUGGESTS FRAC ATTACK WAS BEING PULLED INTO CEMENT PLUG SLURRY

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:30	0.50	0.50	Trip in hole	TRIP IN HOLE TO SHOE.FLOW CHECK AT 377 METERS
00:30	00:45	0.25	0.75	Rig Service	RIG SERVICE,FUNCTIONED PIPE RAMS C/O 4 SECS
00:45	01:15	0.50	1.25	Trip in hole	TRIP IN HOLE FINISH RUNNING TO 732 METERS TO RUN CEMENT PLUGS.HIT BRIDGE AT 480 METERS
01:15	02:30	1.25	2.50	Circulate And Condition	CIRCULATE HOLE CLEAN BRIDGE OFF AT 480 METERS
02:30	02:45	0.25	2.75	Trip in hole	TRIP IN HOLE RUN TO BOTTOM TO SET CEMENT PLUGS
02:45	03:15	0.50	3.25	Circulate And Condition	CIRCULATE HOLE CLEAN BRIDGED OFF AT 552M
03:15	03:30	0.25	3.50	Trip in hole	TRIP IN HOLE TO 732M
03:30	04:30	1.00	4.50	Circulate And Condition	CIRCULATE HOLE CLEAN FOR CEMENTING PLUGS
04:30	04:45	0.25	4.75	Safety meeting	SAFETY MEETING WITH SANJEL CEMENTING COMPANY
04:45	05:00	0.25	5.00	Cement plugs	CEMENT PLUGS FIRST PLUG AT 732 METERS
05:00	05:45	0.75	5.75	Trip out of hole	TRIP OUT OF HOLE TO 466M
05:45	08:00	2.25	8.00	Circulate And Condition	CIRCULATE BOTTOMS UP
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTION ANNULAR C/O 8 SECONDS
08:15	09:30	1.25	9.50	Condition mud & circulate	CIRCULATE
09:30	12:00	2.50	12.00	Ream & Clean	REAM & CLEAN
12:00	12:15	0.25	12.25	Pre-job safety	PRE-JOB SAFETY WITH CEMENTERS
12:15	13:00	0.75	13.00	Cementing	CEMENTING
13:00	14:00	1.00	14.00	Squeeze cement	SQUEEZE CEMENT
14:00	15:00	1.00	15.00	Trip out of hole	TRIP OUT OF HOLE FC@ 378m
15:00	15:15	0.25	15.25	Pre-job safety	PRE-JOB SAFETY WITH DIRCTIONAL HANDS
15:15	17:15	2.00	17.25	Trip in hole	TRIP IN HOLE ,RUN IN WITH DIRCTIONAL TOOLS TO 375m



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/31/2010

Report #: 19.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 62,766

Cum Cost to Date: 1,383,895

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 14.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
17:15	18:00	0.75	18.00	Slip/Cut drilling line	SLIP/CUT DRILLING LINE 10m
18:00	19:15	1.25	19.25	Lay down drill pipe	LAY DOWN DRILL PIPE.18 SINGELS
19:15	20:00	0.75	20.00	Trip in hole	TRIP IN HOLE TO FEEL TOP OF SECOND PLUG
20:00	00:00	4.00	24.00	Ream & Clean	REAM CEMENT PLUGS.BROKE CIRCULATION AT 405 METERS TO 481 METERS

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 Cost	Mud Cum To Date 56,985		
Depth (mKB) 470.00	Density (kg/m³) 1020.0	Funnel Viscosity (s/L) 30	pH 11.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Volumetric Efficiency (%)		

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 1/31/2010

Report #: 19.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 62,766

Cum Cost to Date: 1,383,895

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 14.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
2/1/2010	Safety Meeting	LEVELING RIG WITH RIG JACKERS

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (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 M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/1/2010

Report #: 20.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 66,219

Cum Cost to Date: 1,450,113

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 15.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,089.0	Depth End (mKB) 1,089.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather CLEAR	Temperature (°C) -18	Lease Condition
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Operation at 6am

WOC ON PLUG #5 BEFORE SIDE TRACK PLUG

Operations Summary

CONTINUED TO REAM/DRILL CEMENT PLUGS TO 491 M. LEVELLED RIG (2" WATER TANK, 1" MUD TANK SIDE) REAMED/DRILLED CEMENT PLUG TO 595 M CIRCULATED BOTTOMS-UP AND LAID DOWN 18 SINGLES AND TRIPPED IN STANDS. REAMED TO 673 M WITH RETURNS LOST FROM 618 M. TRIPPED BACK TO 500 M AND CIRCULATED WITH PARTIAL TO FULL RETURNS AND WASHED TO 580 M. TRIPPED OUT OF HOLE TO RUN PLUG #5 AND SIDE-TRACK PLUG. TRIPPED IN OPEN ENDED AND CIRCULATED BRIDGE @ 405 M AND WASHED FROM 600 TO 630 M WITH PARTIAL TO FULL RETURNS BY MIDNIGHT

Operations Next Report Period

RUN PLUG #5 AND KICK OFF PLUG, WOC AND SIDE TRACK

Remarks

AS LOSSES HAVE NOT BEEN CONTAINED, AUTHORIZED TO SIDE TRACK WELL FROM 430 M

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 4 SECS
00:15	00:30	0.25	0.50	Ream & Clean	REAM CEMENT PLUGS FROM 481 METERS TO 491 METERS
00:30	00:45	0.25	0.75	Safety meeting	SAFETY MEETING WITH ARDY RIG JACKING
00:45	01:30	0.75	1.50	Level rig	LEVEL RIG
01:30	07:00	5.50	7.00	Ream & Clean	REAM CEMENT PLUGS FROM 491 METERS TO 595 METERS
07:00	07:15	0.25	7.25	Condition mud & circulate	CIRCULATE BOTTOMS UP
07:15	08:00	0.75	8.00	Trips	TRIPS, BLOW KELLY, LAY DOWN 16 SINGLES, F/C @ 582
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTION ANNULAR C/O 8 SECONDS
08:15	09:00	0.75	9.00	Trips	TRIPS, RUN IN 8 STANDS
09:00	09:30	0.50	9.50	Condition mud & circulate	CIRCULATE & CLEAN HOLE
09:30	10:30	1.00	10.50	Trips	TRIPS, WASH TO 595m
10:30	14:45	4.25	14.75	Ream & Clean	REAM & CLEAN
14:45	15:45	1.00	15.75	Trip out of hole	TRIP OUT OF HOLE 9 STANDS, KELLY UP & BREAK CIRCULATION
15:45	16:00	0.25	16.00	Condition mud & circulate	CIRCULATE BOTTOMS UP
16:00	16:15	0.25	16.25	Rig Service	RIG SERVICE FUNCTION PIPE RAMS C/O 4 SECONDS FUNCTION HCR C/O 3 SECONDS
16:15	17:00	0.75	17.00	Condition mud & circulate	CIRCULATE
17:00	19:30	2.50	19.50	Trip out of hole	TRIP OUT OF HOLE, BLOW KELLY, FC @ 574, 516, 378 166M, 0M, FUNCTION BLIND RAMS OUT OF HOLE C/O 4 SECONDS
19:30	20:00	0.50	20.00	Safety meeting	SAFETY MEETING WITH DEPARTURE ENERGY SERVICES. PULL OUT MWD TOOL, DRAIN MOTOR, RESET BEND. RACK BACK IN DERRICK
20:00	21:30	1.50	21.50	Trip in hole	TRIP IN HOLE TO 672 METERS TO RUN CEMENT PLUGS. FLOW CHECK AT 0M, 377M
21:30	22:15	0.75	22.25	Circulate And Condition	CIRCULATE AT 405 METERS DUE TO BRIDGE



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/1/2010

Report #: 20.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 66,219

Cum Cost to Date: 1,450,113

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 15.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
22:15	22:45	0.50	22.75	Trip in hole	TRIP IN HOLE 600 METERS
22:45	00:00	1.25	24.00	Circulate And Condition	CIRCULATE 600M METERS DUE TO BRIDGE
00:00	00:00		24.00		

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 Cost 614		Mud Cum To Date 57,599	
Depth (mKB) 579.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 31	pH 11.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
MILLZAN	522.35	1.0
SAWDUST CODE 1122	6.53	14.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
		Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/1/2010

Report #: 20.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 66,219

Cum Cost to Date: 1,450,113

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 15.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		
Bit Run 2C	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 481.00	Depth Out (mKB) 595.00	Depth Drilled (m) 114.00	Drilling Time (hrs) 5.75	BHA ROP (m/hr) 19.8	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Stands			33	627.00	627.31

DRILLING SUMMARY

Depth Start (mKB) 481.00	Depth End (mKB) 595.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 2,500	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 29	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 5.75		

SAFETY CHECKS

Date	Type	Description
2/2/2010	Safety Meeting	PUMPING CEMENT PLUGS

SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
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FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/2/2010

Report #: 21.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 55,820

Cum Cost to Date: 1,505,933

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 16.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,089.0	Depth End (mKB) 1,089.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather HIGH CLOUD, LIGHT WIND	Temperature (°C) -24	Lease Condition
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Operation at 6am

TIME DRILLING TOP OF KICK OFF @ 467 M

Operations Summary

CONTINUED TO WASH TO 664 M WITH FULL TO PARTIAL RETURNS. CEMENTED PLUG #5 664 - 475 M WITH 7 l OF EXPANDOMIX. P.I.P. AT 03:00. TRIPPED OUT TO 400 M AND CIRCULATED PIPE CLEAN. WOC AND TRIPPED IN HOLE TO TAG PLUG @ 494M. RAN SIDE-TRACK PLUG #1 WITH 5T OF "G" CEMENT FROM 492 TO 393 M WITH PARTIAL RETURNS. P.I.P. @ 09:35. COMP. STRENGTH: 8 HRS 2.25 MPA, 16 HRS 18.5 MPA. TRIPPED OUT OF HOLE, LAID DOWN DRILL PIPE AND WOC. PRESSURE TESTED MANIFOLD AND BOPS TO 1.5 & 14 MPA. FOR 10 MINUTES EACH (ANNULAR TO 10.5 MPA) PRESSURE TESTED INSIDE BOP, STABBING VALVE, KELLY COCKS. FUNCTION TESTED ACCUMULATOR. PRESSURE BEFORE 17 MPA,. AFTER 3 FUNCTIONS PRESSURE REMAINING 12.5 MPA 57 SECS TO RECHARGE. RIG REPAIR; REPLACED 3 DRAWWORKS CHAINS.

Operations Next Report Period

TRIP IN HOLE, SIDE TRACK AND DIRECTIONALLY DRILL TO WABAMUN TOP, TRIP OUT FOR BHA CHANGE

Remarks

ELECTED TO CONDUCT REQUIRED 15 DAY PRESSURE TEST WHILE CEMENT WOC. REQUIRED RIG REPAIRS (CHANGED 3 DRAWWORKS CHAINS)

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 4 SECS
00:15	02:15	2.00	2.25	Circulate And Condition	CIRCULATE SINGELS TO BOTTOM FOR SETTING CEMENT PLUGS.BLOW KELLY
02:15	02:30	0.25	2.50	Safety meeting	SAFETY MEETING WITH SANJEL CEMENTING SERVICES
02:30	03:00	0.50	3.00	Cement plugs	CEMENT PLUGS.FIRST PLUG AT 664 M - 475M
03:00	03:30	0.50	3.50	Trip out of hole	TRIP OUT OF HOLE TO 400 METERS.11 STANDS SLOW,3 STANDS FAST
03:30	06:30	3.00	6.50	Circulate And Condition	CIRCULATE AT 400 METERS UNTIL TIME TO RUN IN TO FEEL FIRST CEMENT PLUG
06:30	08:00	1.50	8.00	Trip in hole	TRIP IN HOLE TO FEEL FIRST CEMENT PLUG @ 494M
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTION PIPE RAMS C/O 3 SECONDS
08:15	09:00	0.75	9.00	Condition mud & circulate	CIRCULATE BOTTOMS UP
09:00	09:15	0.25	9.25	Safety meeting	SAFETY MEETING WITH SANJEL CEMENTING SERVICES
09:15	09:30	0.25	9.50	Cementing	CEMENTING TOP PLUG 403M -303M CL "G" , 5 TONNE AT 2100 KG/M3
09:30	10:00	0.50	10.00	Trips	TRIPS ,PULL 6 STANDS SLOW &3 FAST INTO DERRICK
10:00	10:30	0.50	10.50	Condition mud & circulate	CIRCULATE BOTTOMS UP
10:30	14:00	3.50	14.00	Lay down drill pipe	RUN IN & LAY DOWN DRILL PIPE FC@
14:00	14:15	0.25	14.25	Safety meeting	SAFETY MEETING DANNY,S PRESSURE TESTING
14:15	18:30	4.25	18.50	Pressure test BOPs	PRESSURE TEST BOPS ,PRESSURE TEST BLIND RAMS ,HCR ,ALL BOP VALVES,ALL MANIFOLD VALVES PIPE RAMS ,ANNULAR 1500 KPA(LOW 10500 KPA (HIGH) ,STABBING VALVE,INSIDE BOPS ,CASING CHOKES CHOKE LINE VALVES ,TESTS 1500 KPA (LOW) 14000 KPA (HIGH) ALL TESTS 10 MIN
18:30	20:00	1.50	20.00	Wait on cement	WAIT ON CEMENT
20:00	00:00	4.00	24.00	Rig Repair	RIG REPAIR, CHANGE CHAINS IN DRAWWORKS



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/2/2010

Report #: 21.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 55,820

Cum Cost to Date: 1,505,933

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 16.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

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 Cost		Mud Cum To Date 57,599
Depth (mKB) 397.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 30	pH 10.5	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES		
Description	Cost (/unit)	Consumed

MUD PUMPS			
Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)	Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)	Volumetric Efficiency (%)

BIT SUMMARY						
Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 378.00	Depth Out (mKB) 1,089.00	Depth Drilled (m) 1,299.15	Drilling Time (hrs) 81.50	BHA ROP (m/hr) 15.9	IADC Bit Dull 0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS						
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)	
Drill pipe - Singles			1	9.51	620.65	
Drill Pipe	82.3	101.6	1	9.52	630.17	
Drill pipe - Stands			19	360.94	611.14	
HWDP		102.0	6	55.79	250.20	
X/O	58.0	156.0	1	0.28	194.41	
DC (6.25 IN)	58.0	156.0	8	72.15	194.13	
JARS-HYD	60.0	166.0	1	5.51	121.98	
SHORT DC	64.0	166.0	1	4.61	116.47	
DC (6.25 IN)		158.0	5	45.58	66.28	
DC (6.25 IN)	58.0	156.0	5	45.58	111.86	
X/O SUB	74.0	165.0	1	0.39	20.70	
CUTTER SUB	83.0	165.0	1	0.79	19.40	
BIT SUB		161.0	1	0.91	20.31	
FLEXNMDC	83.0	168.0	1	9.47	18.61	
MP UBHO	65.0	165.0	1	0.68	9.14	
165MM MOTOR		168.0	1	8.15	8.46	

DRILLING SUMMARY						
Depth Start (mKB)	Depth End (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 Hook Load (daN)		Drilling Time (hrs)	
Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS						
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)	



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU
Rig: 436 Precision Drilling

Report For: 2/2/2010

Report #: 21.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 55,820

Cum Cost to Date: 1,505,933

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 16.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
2/2/2010	Safety Meeting	RIGGING IN DIRECTIONAL TOOLS
2/3/2010	Safety Meeting	THE RISK OF WORKING AT HEIGHTS

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (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 M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/3/2010

Report #: 22.0

Depth Progress: 114.15

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 68,789

Cum Cost to Date: 1,574,723

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 17.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 472.0	Depth End (mKB) 586.2	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather MOSTLY CLEAR	Temperature (°C) -27	Lease Condition
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Operation at 6am

DRILLING BLIND TO 625M AT 10 - 15 M/HR

Operations Summary

SAFETY MEETING WITH DEPARTURE DIRECTIONAL. PICKED-UP DIRECTIONAL TOOLS AND TRIPPED IN HOLE TO THE BOTTOM OF THE CASING. WORKED ON GETTING PUMP #1 READY, WOULD NOT START, SWITCHED TO PUMP #2. WASHED THROUGH BRIDGE @ 402 M AND WASHED DOWN TO COMPETANT SIDE-TRACK CEMENT @ 467 M. TIME DRILLED OFF PLUG AND DIRECTIONALLY DRILLED AHEAD. BOP DRILL WITH 2 CREWS. CONTINUED TO DIRECTIONALLY DRILL ON 220 AZIMUTH. BEGAN TO LOSE RETURNS AT 573 M. TRIPPED OUT DIRECTIONAL TOOLS, LAID DOWN TOOLS AND TRIPPED IN WITH ROTARY ASSEMBLY. WASHED BRIDGES AT 426 M AND WASHED FROM 470 M TO BOTTOM WITH FULL RETURNS

Operations Next Report Period

DRILL AHEAD THROUGH WABAMUN, TRIP OUT AND RUN PLUG

Remarks

ELECTED TO RETRIEVE DIRECTIONAL ASSEMBLY WHEN CIRCULATION LOSSES ENCOUNTERED, CHANGED TO TRICONE BIT TO ASSIST IN DROPPING HOLE ANGLE

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Safety meeting	SAFETY MEETING WITH DEPARTURE ENERGY SERVICES
00:15	00:45	0.50	0.75	Directional work	DIRECTIONAL WORK, MAKE UP MWD TOOLS, ORIENTATE TOOLS, PUT ON BIT
00:45	02:15	1.50	2.25	Trips	TRIPS, RUN IN TO FEEL PLUG
02:15	03:30	1.25	3.50	Other	PREPARE PUMP #2 FOR SERVICE
03:30	06:00	2.50	6.00	Ream & Clean	REAM & CLEAN FROM 402 METERS TO 467 METERS TO FIND TOP OF CEMENT
06:00	08:00	2.00	8.00	Drill	DRILL 200MM HOLE FROM 467 METERS TO 472m
08:00	08:15	0.25	8.25	Drills/BOP, etc.	DRILLS/BOP, WELL SECURE IN 78 SECONDS
08:15	08:30	0.25	8.50	Rig Service	RIG SERVICE FUNCTION PIPE RAMS C/O 4 SECONDS
08:30	15:30	7.00	15.50	Drill	DRILL 200 mmHOLE FROM 472m TO 576m
15:30	16:00	0.50	16.00	Directional surveys	DIRECTIONAL SURVEYS (ACCUMULATED)
16:00	16:15	0.25	16.25	Drills/BOP, etc.	DRILLS/BOP, WELL SECURE 65 SECONDS
16:15	16:30	0.25	16.50	Rig Service	RIG SERVICE, FUNCTIONED ANNULAR PREVENTER C/O 8 SECONDS
16:30	18:30	2.00	18.50	Trips	TRIPS, POOH, FC @ 576,547,285, 147,0M
18:30	19:30	1.00	19.50	Directional work	DIRECTIONAL WORK, LAY DOWN TOOLS
19:30	20:00	0.50	20.00	Trips	TRIPS, RIH, FC @ 0,
20:00	22:15	2.25	22.25	Trips	TRIPS, RIH, FC @ 0,132,377,538
22:15	00:00	1.75	24.00	Reaming	REAMING FROM 456M TO 576M

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 Cost 26	Mud Cum To Date 57,625		
Depth (mKB) 558.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 30	pH 10.5	PV Override (cp)	YP Override (Pa)	



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/3/2010

Report #: 22.0

Depth Progress: 114.15

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 68,789

Cum Cost to Date: 1,574,723

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 17.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD ADDITIVES		
Description	Cost (/unit)	Consumed
SAWDUST CODE 1122	6.53	4.0

MUD PUMPS			
Pump Number	Rod Diameter (mm)	Pump Rating (kW)	
1	152.4	800.0	
Pressure (kPa)	Slow Speed Check?	Strokes (spm)	Volumetric Efficiency (%)
	No		
Pump Number	Rod Diameter (mm)	Pump Rating (kW)	
2	152.4	800.0	
Pressure (kPa)	Slow Speed Check?	Strokes (spm)	Volumetric Efficiency (%)
	No		

BIT SUMMARY						
Bit Run	Bit Type	Size (mm)	Make	Model	Serial Number	IADC Codes
2	Bit	200.0	VAREL	VTD513HX	4001140	---
Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)	IADC Bit Dull
10.3/10.3/10.3/10....	378.00	1,089.00	1,299.15	81.50	15.9	0-1-CT-A-1-0-NO-...

DRILL STRING COMPONENTS					
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.51	620.65
Drill Pipe	82.3	101.6	1	9.52	630.17
Drill pipe - Stands			19	360.94	611.14
HWDP		102.0	6	55.79	250.20
X/O	58.0	156.0	1	0.28	194.41
DC (6.25 IN)	58.0	156.0	8	72.15	194.13
JARS-HYD	60.0	166.0	1	5.51	121.98
SHORT DC	64.0	166.0	1	4.61	116.47
DC (6.25 IN)		158.0	5	45.58	66.28
DC (6.25 IN)	58.0	156.0	5	45.58	111.86
X/O SUB	74.0	165.0	1	0.39	20.70
CUTTER SUB	83.0	165.0	1	0.79	19.40
BIT SUB		161.0	1	0.91	20.31
FLEXNMDC	83.0	168.0	1	9.47	18.61
MP UBHO	65.0	165.0	1	0.68	9.14
165MM MOTOR		168.0	1	8.15	8.46

DRILLING SUMMARY						
Depth Start (mKB)	Depth End (mKB)	ROP Instantaneous (min/m)	Weight on Bit (daN)	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
402.00	467.00		2,000			
RPM (rpm)	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs)		
32				4.50		
Depth Start (mKB)	Depth End (mKB)	ROP Instantaneous (min/m)	Weight on Bit (daN)	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
472.00	586.15		2,000			
RPM (rpm)	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs)		
30		30		7.00		
Bit Run	Bit Type	Size (mm)	Make	Model	Serial Number	IADC Codes
2A	Bit	200.0	VAREL	VTD513HX	4001140	---
Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)	IADC Bit Dull
10.3/10.3/10.3/10....				0.00		-----

DRILL STRING COMPONENTS					
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)

DRILLING SUMMARY						
Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS		
Date	Type	Description



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/3/2010

Report #: 22.0

Depth Progress: 114.15

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 68,789

Cum Cost to Date: 1,574,723

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 17.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)

SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)
2/3/2010	503.68	3.30	215.50	503.52	8.91	-0.23	8.91	0.96
2/3/2010	513.17	3.50	212.70	513.00	8.45	-0.54	8.45	0.82
2/3/2010	522.65	3.70	213.40	522.46	7.95	-0.87	7.95	0.65
2/3/2010	532.16	3.70	214.80	531.96	7.94	-1.04	7.94	88.84
2/3/2010	541.64	4.60	222.90	541.42	7.41	-1.47	7.41	3.39

FORMATIONS

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



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/4/2010
Report #: 23.0
Depth Progress: 155.00

Total AFE Amount: 1,789,656.00
AFE Number: 09N010005
Daily Cost: 66,511
Cum Cost to Date: 1,641,234

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 18.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 576.0	Depth End (mKB) 731.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather MOSTLY CLEAR	Temperature (°C) -18	Lease Condition
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Operation at 6am
RUN IN HOLE WITH 73MM FIBREGLASS TUBING TO CEMENT

Operations Summary

PATTERNED TRICONE BIT AND DRILLED AHEAD FROM 576 M 681 WITH NO RETURNS. HOLE WAS PACKED OFF. WIPER TRIP TO 375 M (HOLE SWABBING TO 420M). WASHED FROM 411M - 550M. HOLE UNLOADED LARGE VOLUME OF CUTTINGS AND LCM. TRIPPED BACK IN HOLE FROM 590M - 681M. DRILLED AHEAD 682M - 722 M WITH MOSTLY NO RETURNS. WAITED ON WATER FOR 1 HOUR. DRILLED AHEAD TO 731 M WITH PARTIAL TO 75% RETURNS. CIRCULATED HOLE.

Operations Next Report Period

RUN CEMENT PLUGS, WOC AND DRILL OUT

Remarks

COMPLETED DRILLING WABAMUN AND LOSS SECTIONS AND WILL CEMENT WITH TWO PLUGS OF FAST SETTING CEMENT. HOLE APPEARS WASHED-OUT FROM 377 - 440 M. MAIN RIG LIGHT PLANT DOWN AT 14:00HR. WAITING ON PARTS TO REPAIR. RIG OPERATING ON SMALLER STANDBY LIGHT PLANT. UNABLE TO RUN CENTRIFUGE. PRECISION MECHANIC ON LOCATION TO REPAIR #1 MUD PUMP ENGINE.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTION PIPE RAMS C/O 4 SECONDS
00:15	07:30	7.25	7.50	Drill	DRILL 200 mmHOLE FROM 576mTO 646m
07:30	08:00	0.50	8.00	Deviation survey	DEVIATION SURVEY
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE, FUNCTIONED ANNULAR PREVENTER C/O 8 SECONDS
08:15	11:15	3.00	11.25	Drill	DRILL 200mm HOLE FROM 646 TO 681m
11:15	12:30	1.25	12.50	Trips	TRIPS, WIPER TO 375M, FC @ 674,646,375M
12:30	17:45	5.25	17.75	Reaming	REAMING, 411M TO,590
17:45	18:00	0.25	18.00	Rig Service	RIG SERVICE,FUNCTION PIPE RAMS C/O 3 SEC.
18:00	20:00	2.00	20.00	Drill	DRILL 200mm HOLE FROM 681 TO 703m
20:00	22:00	2.00	22.00	Drill	DRILL 200mmHOLE FROM 703m TO 722m
22:00	23:00	1.00	23.00	W/O Water	W/O WATER
23:00	23:45	0.75	23.75	Drill	DRILL 200 mmHOLE FROM 722mmTO 731m
23:45	00:00	0.25	24.00	Condition mud & circulate	CONDITION MUD & CIRCULATE

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 Cost 747	Mud Cum To Date 58,372	
Depth (mKB) 566.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 30	pH	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
CELLOFLAKES CODE 1240	72.40	1.0
ALKAPAM 1103D CODE 1007	211.93	1.0
KWIKSEAL COURSE CODE 1081	34.01	4.0



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/4/2010

Report #: 23.0

Depth Progress: 155.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 66,511

Cum Cost to Date: 1,641,234

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 18.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD ADDITIVES		
Description	Cost (/unit)	Consumed
SAWDUST CODE 1122	6.53	35.0
SAWDUST CODE 1122	6.53	15.0

MUD PUMPS			
Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)	Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)	Volumetric Efficiency (%)

BIT SUMMARY						
Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS					
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)

DRILLING SUMMARY						
Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		
Bit Run 3	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model HE18MSV	Serial Number 250656	IADC Codes 4-4-7-X
Nozzles (mm) 14.3/14.3/14.3	Depth In (mKB) 411.00	Depth Out (mKB) 731.00	Depth Drilled (m) 604.00	Drilling Time (hrs) 27.75	BHA ROP (m/hr) 21.8	IADC Bit Dull -----

DRILL STRING COMPONENTS					
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Stands			28	532.15	730.24
HWDP		102.0	6	55.79	198.09
X/O	58.0	156.0	1	0.28	142.30
DC (6.25 IN)	58.0	156.0	8	72.15	142.02
JARS-HYD	60.0	166.0	1	5.51	69.87
SHORT DC	64.0	166.0	1	4.61	64.36
DC (6.25 IN)	58.0	156.0	5	45.58	59.75
X/O	0.7	165.0	1	0.39	14.17
MONEL	0.8	168.0	1	9.47	13.78
X/O	0.8	152.0	1	0.34	4.31
X/O	0.6	156.0	1	0.36	3.97
TELEDRIFT	0.7	154.0	1	2.47	3.61
BIT SUB	0.7	161.0	1	0.91	1.14

DRILLING SUMMARY						
Depth Start (mKB) 576.00	Depth End (mKB) 646.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 10,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 85	Motor RPM (rpm)	Bit RPM (rpm) 85	Slack-Off Hook Load (daN)	Drilling Time (hrs) 7.25		
Depth Start (mKB) 646.00	Depth End (mKB) 681.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 5,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 1.49		
Depth Start (mKB) 411.00	Depth End (mKB) 595.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 70	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 7.83		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/4/2010

Report #: 23.0

Depth Progress: 155.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 66,511

Cum Cost to Date: 1,641,234

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 18.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILLING SUMMARY

Depth Start (mKB) 681.00	Depth End (mKB) 703.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 10,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 0.94		
Depth Start (mKB) 703.00	Depth End (mKB) 731.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 10,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 2.75		

SAFETY CHECKS

Date	Type	Description

SAFETY INCIDENTS

Date	Comment	Type
2/5/2010	The floorhand drove the crew truck to camp to pick up the midnight meal. While backing out of the camp area he backed his vehicle into the side of the precision mechanic's vehicle. Damage was limited an estimated under \$3000 for each vehicle.	Unsafe Condition

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)

SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)
2/4/2010	598.00	4.00	0.00	597.71	7.72	-3.01	7.72	4.26

FORMATIONS

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



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/5/2010

Report #: 24.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 32,071

Cum Cost to Date: 1,673,305

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 19.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 731.0	Depth End (mKB) 731.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather OVERCAST	Temperature (°C) -13	Lease Condition
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Operation at 6am

TRIPPING OUT AT 317m TO PICK UP CEMENT STINGER

Operations Summary

TRIP OUT OF HOLE TO PICK UP CEMENT STINGER. MAKE UP 300m OF FIBREGLASS 73mm TUBING. TRIP INTO HOLE TO 463m WASH BRIDGES FROM 463m - 602m. UNABLE TO WASH THROUGH BRIDGES. TRIP OUT OF HOLE WITH CEMENT STINGER AND LAY DOWN. MAKE UP DRILLING ASSEMBLY AND TRIP IN HOLE TO 466m. WASH AND REAM FROM 466m - 618m. CHANGE MUD SYSTEM TO POLYMER WITH A VISCOSITY OF 40-45.

Operations Next Report Period

WASH TO BOTTOM, TRIP OUT, MAKE UP CEMENTING STRING, CEMENT WELL THROUGH LOSS ZONE, WOC, DRILL OUT CEMENT

Remarks

LARGE AMOUNT OF LCM, ERODED CEMENT AND DRILL CUTTINGS UNLOADED OVER SHAKER WHEN HOLE CONVERTED TO MUD. TOTAL LOSSES FROM 597m - 602m.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTION PIPE RAMS C/O 3 SECONDS
00:15	02:15	2.00	2.25	Trip out of hole	TRIP OUT OF HOLE FC,@719,694,
02:15	03:15	1.00	3.25	Ream & Clean	REAM & CLEAN FROM 430m TO 453m
03:15	05:15	2.00	5.25	Trip out of hole	TRIP OUT OF HOLE FC @ 378,0M FUNCTION BLIND RAMS OUT OF HOLE C/O 3 SECONDS
05:15	07:30	2.25	7.50	Trips	TRIPS ,PICK UP 73mm FIBREGLASS TUBING STINGER RUN IN HOLE
07:30	08:00	0.50	8.00	Trips	TRIPS, RIH TO 465M IBER
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE, FUNCTIONED ANNULAR PREVENTER C/O 8 SECONDS
08:15	13:30	5.25	13.50	Reaming	WASHING FROM 463 TO 602M, UNABLE TO GET TUBING STRING TO BOTTOM
13:30	14:30	1.00	14.50	Trips	TRIPS, POOH, FC @ 602,517,311m
14:30	17:00	2.50	17.00	Trips	TRIPS, LAY DOWN TUBING STRING
17:00	17:15	0.25	17.25	Rig Service	RIG SERVICE, FUNCTIONED BLIND RAMS C/O 5 SECONDS
17:15	19:15	2.00	19.25	Trips	TRIPS, RIH, FC @ 0, 130, 375M
19:15	19:45	0.50	19.75	Condition mud & circulate	CIRCULATE BOTTOMS UP @466m
19:45	20:00	0.25	20.00	Trips	TRIPS ,RIH 1 STAND REAM 2 SINGLES
20:00	00:00	4.00	24.00	Ream & Clean	REAM & CLEAN FROM 485m TO 624M

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 Cost 1,219	Mud Cum To Date 59,591		
Depth (mKB) 595.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 40	pH 8.0	PV Override (cp) 13.0	YP Override (Pa) 6.700	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
ULTRA PAC R	203.10	6.0



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/5/2010

Report #: 24.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 32,071

Cum Cost to Date: 1,673,305

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 19.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
		Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		
Bit Run 3	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model HE18MSV	Serial Number 250656	IADC Codes 4-4-7-X
Nozzles (mm) 14.3/14.3/14.3	Depth In (mKB) 411.00	Depth Out (mKB) 731.00	Depth Drilled (m) 604.00	Drilling Time (hrs) 27.75	BHA ROP (m/hr) 21.8	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Stands			28	532.15	730.24
HWDP		102.0	6	55.79	198.09
X/O	58.0	156.0	1	0.28	142.30
DC (6.25 IN)	58.0	156.0	8	72.15	142.02
JARS-HYD	60.0	166.0	1	5.51	69.87
SHORT DC	64.0	166.0	1	4.61	64.36
DC (6.25 IN)	58.0	156.0	5	45.58	59.75
X/O	0.7	165.0	1	0.39	14.17
MONEL	0.8	168.0	1	9.47	13.78
X/O	0.8	152.0	1	0.34	4.31
X/O	0.6	156.0	1	0.36	3.97
TELEDRIFT	0.7	154.0	1	2.47	3.61
BIT SUB	0.7	161.0	1	0.91	1.14

DRILLING SUMMARY

Depth Start (mKB) 466.00	Depth End (mKB) 624.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 30	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 4.00		

SAFETY CHECKS

Date	Type	Description
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SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/5/2010

Report #: 24.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 32,071

Cum Cost to Date: 1,673,305

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 19.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/6/2010

Report #: 25.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 52,610

Cum Cost to Date: 1,725,915

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 20.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 731.0	Depth End (mKB) 731.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather OVERCAST	Temperature (°C) -14	Lease Condition
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Operation at 6am

TRIP IN THE HOLE MAKING UP DRILLOUT BHA

Operations Summary

WASH AND REAM FROM 624m - 731m. TRIP OUT OF HOLE WITH CLEAN OUT ASSEMBLY. MAKE UP 300m OF 73mm FIBREGLASS TUBING STINGER AND TRIP IN THE HOLE TO BOTTOM. MIX AND PUMP 7 TONNE CEMENT PLUG FROM 731m - 542m. PULL OUT OF PLUG AND WOC AT 500m. TRIP IN AND TAG PLUG TOP AT 604m. MIX AND PUMP 4 TONNE CEMENT PLUG FROM 604m - 490m. PULL OUT OF PLUG AND WOC AT 475m.

Operations Next Report Period

TAG CEMENT PLUG AT 536m, TRIP OUT TO LAY DOWN CEMENTING STRING, TRIP IN WITH DRILLING ASSEMBLY, DRILL CEMENT

Remarks

BOTTOM CEMENT PLUG HAD DROPPED 62m FROM CALCULATED HEIGHT.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTION ANNULAR C/O 8 SECONDS
00:15	03:45	3.50	3.75	Ream & Clean	REAM & CLEAN FROM 624m TO 731m
03:45	04:00	0.25	4.00	Condition mud & circulate	CIRCULATE BOTTOMS UP
04:00	04:15	0.25	4.25	Deviation survey	DEVIATION SURVEY @720 -6 DEGREE
04:15	07:30	3.25	7.50	Trip out of hole	TRIP OUT OF HOLE FC@ 719,695,387,166,0M
07:30	07:45	0.25	7.75	Rig Service	RIG SERVICE, FUNCTIONED BLIND RAMS C/O 5 SECONDS
07:45	08:00	0.25	8.00	Safety meeting	WEEKLY FOCUS SAFETY MEETING WITH RIG MANAGER
08:00	12:45	4.75	12.75	Trips	TRIPS, RUN 73MM FIBREGLASS TUBING AS CEMENT STINGER
12:45	13:15	0.50	13.25	Condition mud & circulate	CIRCULATE HOLE CLEAN
13:15	13:30	0.25	13.50	Safety meeting	SAFETY MEETING WITH SANJEL PERSONNEL
13:30	14:15	0.75	14.25	Cementing	CEMENTING PLUG # 1 730m - 544m
14:15	14:45	0.50	14.75	WAIT ON CEMENT	TRIPS, POOH TO 500M
14:45	16:00	1.25	16.00	WAIT ON CEMENT	CONDITION MUD & CIRCULATE
16:00	16:15	0.25	16.25	Rig Service	RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS
16:15	18:00	1.75	18.00	WAIT ON CEMENT	CONDITION MUD & CIRCULATE
18:00	19:00	1.00	19.00	Trips	TRIPS, FEEL PLUG # 7 @604m
19:00	20:00	1.00	20.00	Condition mud & circulate	CONDITION MUD & CIRCULATE
20:00	20:30	0.50	20.50	Pre-job safety	PRE-JOB SAFETY WITH CEMENTERS (SANJEL)
20:30	20:45	0.25	20.75	Cementing	CEMENTING PLUG #8 FROM 603m - 498m
20:45	00:00	3.25	24.00	WAIT ON CEMENT	CIRCULATE , WAIT ON CEMENT



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/6/2010

Report #: 25.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 52,610

Cum Cost to Date: 1,725,915

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 20.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

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 Cost		Mud Cum To Date 59,591	
Depth (mKB) 607.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 38	pH 8.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
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MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)		Drilling Time (hrs)	
Bit Run 3	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model HE18MSV	Serial Number 250656	IADC Codes 4-4-7-X
Nozzles (mm) 14.3/14.3/14.3	Depth In (mKB) 411.00	Depth Out (mKB) 731.00	Depth Drilled (m) 604.00	Drilling Time (hrs) 27.75	BHA ROP (m/hr) 21.8	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Stands			28	532.15	730.24
HWDP		102.0	6	55.79	198.09
X/O	58.0	156.0	1	0.28	142.30
DC (6.25 IN)	58.0	156.0	8	72.15	142.02
JARS-HYD	60.0	166.0	1	5.51	69.87
SHORT DC	64.0	166.0	1	4.61	64.36
DC (6.25 IN)	58.0	156.0	5	45.58	59.75
X/O	0.7	165.0	1	0.39	14.17
MONEL	0.8	168.0	1	9.47	13.78
X/O	0.8	152.0	1	0.34	4.31
X/O	0.6	156.0	1	0.36	3.97
TELEDRIFT	0.7	154.0	1	2.47	3.61
BIT SUB	0.7	161.0	1	0.91	1.14

DRILLING SUMMARY

Depth Start (mKB) 624.00	Depth End (mKB) 731.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 2,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 30	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)		Drilling Time (hrs) 3.50	



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/6/2010

Report #: 25.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 52,610

Cum Cost to Date: 1,725,915

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 20.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

SAFETY CHECKS

Date	Type	Description
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SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

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

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/7/2010
Report #: 26.0
Depth Progress: 207.00

Total AFE Amount: 1,789,656.00
AFE Number: 09N010005
Daily Cost: 72,110
Cum Cost to Date: 1,798,025

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 21.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 535.0	Depth End (mKB) 742.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather CLEAR	Temperature (°C) -12	Lease Condition
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Operation at 6am
DRILLING TO 799m AT 20 m/hr

Operations Summary
CIRCULATE AND WOC AT 475m. TRIP IN AND TAG CEMENT PLUG AT 535m. TRIP OUT OF HOLE AND LAY DOWN 73mm FIBREGLASS TUBING. MAKE UP PDC AND DRILLING ASSEMBLY AND TRIP IN HOLE TO 370m. CUT AND SLIP DRILL LINE. TRIP IN HOLE TO CEMENT TOP AT 535m. DRILL CEMENT FROM 535m - 731m. DRILL FROM 731m - 742m. CIRCULATE BOTTOMS UP FOR SURVEY. RUN SINGLE SHOT SURVEY AT 727m.

Operations Next Report Period
DRILL AHEAD

Remarks
DRILLING AHEAD WITH MINOR LOSSES OF 2m³/hr FROM 731m - 759m. ZERO LOSSES AFTER 759m. CONTROL DRILLING AT 15 m/hr WITH LESS THAN 1 daN ON BIT WHILE DRILLING FROM 731m - 790m.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTION ANNULAR C/O 8 SECONDS
00:15	00:45	0.50	0.75	Condition mud & circulate	CIRCULATE WAIT ON CEMENT
00:45	01:30	0.75	1.50	Cementing	CEMENTING FEEL PLUG #2 @ 535 M
01:30	01:45	0.25	1.75	Condition mud & circulate	CIRCULATE
01:45	05:15	3.50	5.25	Trips	TRIPS , FOR FIBERGLASS TUBBING FC@383,166,0M FUNCTION BLIND RAMS OUT OF HOLE C/O 3 SECONDS
05:15	08:00	2.75	8.00	Pick up BHA	PICK UP BHA , RIH FC @0,166,378,
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE,FUNCTIONED ANNULAR PREVENTER C/O 8 SECONDS
08:15	08:30	0.25	8.50	Cut off Drill Line	CUT OFF DRILL LINE
08:30	09:00	0.50	9.00	Trips	TRIPS, LAY DOWN 26 DRILL PIPE
09:00	10:30	1.50	10.50	Trips	TRIPS, RIH TO 535M (TAGGED CEMENT)
10:30	20:00	9.50	20.00	Drill	DRILL 200MM HOLE FROM 535M TO 658M
20:00	23:30	3.50	23.50	Drill	DRILL 200 mmHOLE FROM 685m TO 742m
23:30	23:45	0.25	23.75	Condition mud & circulate	CIRCULATE BOTTOMS UP
23:45	00:00	0.25	24.00	Deviation survey	DEVIATION SURVEY

MUD CHECKS

Low Gravity Solids (%)	MBT (kg/m ³)	Oil Water Ratio	Chlorides (mg/L)	Calcium (mg/L)	Lime (kg/m ³)	Potassium (mg/L)
Electric Stab (V)	ECD - Manual Entry (kg/m ³)	Sand (%)	Solids (%)	Temp Bottom Hole (°C)	HTHP Pressure (kPa)	HTHP Filtrate (mL/30min)
Active Mud Volume (Surf) (m ³)	Mud Lost to Hole (m ³)	Cum Mud Lost to Hole (m ³)	Daily Mud Cost 1,251	Mud Cum To Date 60,842		
Depth (mKB) 726.00	Density (kg/m ³) 1010.0	Funnel Viscosity (s/L) 30	pH 11.5	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
ULTRA PAC R	203.10	1.0



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/7/2010
Report #: 26.0
Depth Progress: 207.00

Total AFE Amount: 1,789,656.00
AFE Number: 09N010005
Daily Cost: 72,110
Cum Cost to Date: 1,798,025

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 21.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD ADDITIVES		
Description	Cost (/unit)	Consumed
CITRIC ACID	104.79	10.0

MUD PUMPS			
Pump Number	Rod Diameter (mm)	Pump Rating (kW)	
1	152.4	800.0	
Pressure (kPa)	Slow Speed Check?	Strokes (spm)	Volumetric Efficiency (%)
	No		
Pump Number	Rod Diameter (mm)	Pump Rating (kW)	
2	152.4	800.0	
Pressure (kPa)	Slow Speed Check?	Strokes (spm)	Volumetric Efficiency (%)
	No		

BIT SUMMARY						
Bit Run	Bit Type	Size (mm)	Make	Model	Serial Number	IADC Codes
2A	Bit	200.0	VAREL	VTD513HX	4001140	---
Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)	IADC Bit Dull
10.3/10.3/10.3/10....				0.00		-----

DRILL STRING COMPONENTS					
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)

DRILLING SUMMARY						
Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		
Bit Run	Bit Type	Size (mm)	Make	Model	Serial Number	IADC Codes
2D	Bit	200.0	VAREL	VTD513HX	4001140	---
Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)	IADC Bit Dull
10.3/10.3/10.3/10....	535.00	1,473.00	930.00	74.75	12.4	-----

DRILL STRING COMPONENTS					
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)

DRILLING SUMMARY						
Depth Start (mKB)	Depth End (mKB)	ROP Instantaneous (min/m)	Weight on Bit (daN)	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
535.00	658.00		2,000		1.250	
RPM (rpm)	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs)		
27		27		9.50		
Depth Start (mKB)	Depth End (mKB)	ROP Instantaneous (min/m)	Weight on Bit (daN)	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
658.00	742.00		1,000		1.250	
RPM (rpm)	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs)		
110		110		3.50		

SAFETY CHECKS		
Date	Type	Description
2/8/2010	Safety Meeting	HAND AWARENESS

SAFETY INCIDENTS		
Date	Comment	Type

WELL CONTROL SUMMARY					
Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)

SURVEY DATA								
Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
2/7/2010	722.00	2.50	216.00	721.52	14.29	-3.04	-2.38	37.50

FORMATIONS		
Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/8/2010

Report #: 27.0

Depth Progress: 209.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 37,399

Cum Cost to Date: 1,835,424

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 22.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 742.0	Depth End (mKB) 951.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather CLEAR	Temperature (°C) -11	Lease Condition
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Operation at 6am

DRILLING TO 1017m AT 15m - 20m / hr

Operations Summary

DRILL FROM 724m - 799m. CIRCULATE AND RUN SINGLE SHOT SURVEY AT 779m. DRILL FROM 799m - 913m. CIRCULATE AND RUN SINGLE SHOT SURVEY AT 893m. DRILL FROM 913m - 931m. WORK STUCK PIPE FREE AND LAY DOWN THREE SINGLES. CIRCULATE AND CONDITION MUD TO INCREASE VISCOSITY. CONTROL DRILL FROM 931m - 951m WHILE WORKING ON MUD.

Operations Next Report Period

DRILL AHEAD

Remarks

DRILL STRING BECAME STUCK WHILE MAKING A CONNECTION AT 931m. DRILL STRING HYDRAULIC. WORKED PIPE FREE, PULLED 3 SINGLES, ESTABLISHED CIRCULATION, CLEANED HOLE, WASHED TO BOTTOM, CIRCULATED TO CLEAN HOLE AND INCREASE MUD VISCOSITY AND YP. CAUSE OF INCIDENT DUE TO MUD PUMP INEFFICIENCY (VALVE OBSTRUCTION) AND NO MUD PROPERTIES.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTION PIPE RAMS C/O 4 SECONDS
00:15	06:00	5.75	6.00	Drill	DRILL 200mmHOLE FROM 742m TO 799M
06:00	06:45	0.75	6.75	Deviation survey	DEVIATION SURVEY @ 779M DEV 1.5 DEG
06:45	08:00	1.25	8.00	Drill	DRILL 200m HOLE FROM 799 - 818M
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE, FUNCTIONED ANNULAR PREVENTERV C/O 8 SECONDS
08:15	15:30	7.25	15.50	Drill	DRILL 200mm HOLE FROM 818 - 913M
15:30	16:30	1.00	16.50	Condition mud & circulate	CIRCULATE HOLE CLEAN, WORK PIPE
16:30	17:15	0.75	17.25	Deviation survey	DEVIATION SURVEY @ 893M DEV 1 DEG
17:15	18:30	1.25	18.50	Drill	DRILL 200mm HOLE FROM 913 - 931m
18:30	19:00	0.50	19.00	Circulate And Condition	WORK STUCK PIPE FREE
19:00	20:00	1.00	20.00	Condition mud & circulate	CIRCULATE CLEAN HOLE & CONDITION MUD
20:00	22:00	2.00	22.00	Condition mud & circulate	CIRCULATE CLEAN HOLE & CONDITION MUD
22:00	01:00	3.00	25.00	Drill	DRILL 200mmHOLE FROM 931m TO 951m
01:00	02:00	1.00	26.00	Condition mud & circulate	CIRCULATE CLEAN HOLE & CONDITION MUD
02:00	05:00	3.00	29.00	Drill	DRILL 200mmHOLE FROM 731m TO 951m



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/8/2010

Report #: 27.0

Depth Progress: 209.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 37,399

Cum Cost to Date: 1,835,424

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 22.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

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 Cost 3,247		Mud Cum To Date 64,089	
Depth (mKB) 950.00	Density (kg/m³) 1010.0	Funnel Viscosity (s/L) 32	pH 10.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
SAWDUST CODE 1122	6.53	7.0
ULTRA PAC R	203.10	1.0
ALKAPAM 1103D CODE 1007	211.93	2.0
CITRIC ACID	104.79	17.0
ALKAPAM 1103D CODE 1007	211.93	1.0
MILLZAN	522.35	1.0
SAWDUST CODE 1122	6.53	9.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		
Bit Run 2D	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 535.00	Depth Out (mKB) 1,473.00	Depth Drilled (m) 930.00	Drilling Time (hrs) 74.75	BHA ROP (m/hr) 12.4	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB) 742.00	Depth End (mKB) 818.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 1,500	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 7.00		
Depth Start (mKB) 818.00	Depth End (mKB) 931.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 4,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 8.50		
Depth Start (mKB) 931.00	Depth End (mKB) 951.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 3.00		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/8/2010

Report #: 27.0

Depth Progress: 209.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 37,399

Cum Cost to Date: 1,835,424

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 22.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

SAFETY CHECKS

Date	Type	Description

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)

SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)
2/8/2010	779.00	1.50	230.00	778.48	12.81	-4.34	-0.63	0.58
2/8/2010	779.00	1.50	220.00	778.48	12.81	-4.34	-0.63	0.58
2/8/2010	893.00	1.00	230.00	892.46	11.02	-6.06	1.63	0.14

FORMATIONS

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



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/9/2010
Report #: 28.0
Depth Progress: 284.00

Total AFE Amount: 1,789,656.00
AFE Number: 09N010005
Daily Cost: 46,049
Cum Cost to Date: 1,881,473

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 23.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 951.0	Depth End (mKB) 1,254.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather CLEAR	Temperature (°C) -13	Lease Condition
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Operation at 6am
DRILLING TO 1329m AT 5m - 15m / hr

Operations Summary
DRILL FROM 951m - 1045m. PERFORM WEEKLY ACCUMULATOR FUNCTION TEST. STARTING PRESSURE 17,000 kpa, REMAINING PRESSURE AFTER THREE FUNCTIONS 10,700kpa. RECHARGE IN 93 sec. DRILL FROM 1045m - 1065m. DIRECTIONAL SURVEY - MISRUN. DRILL FROM 1065m - 1074m. DIRECTIONAL SURVEY. DRILL FROM 1074m - 1216m. TOTCO SURVEY. DRILL FROM 1216m - 1254m

Operations Next Report Period
DRILL AHEAD, POSSIBLE TRIP FOR BIT CHANGE

Remarks

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
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Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
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TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Rig Service	RIG SERVICE FUNCTION PIPE RAMS C.O 4 SECONDS
00:15	07:00	6.75	7.00	Drill	DRILL 200mmHOLE FROM 951mTO 1045M
07:00	08:00	1.00	8.00	Circulate And Condition	WORK PIPE ON CONN
08:00	08:15	0.25	8.25	SAFETY MEETING	RIG SERVICE, FUNCTIONED ACCUMUALTOR FUNCTION TEST, START 17000/ THREE FUNCTIONS,10700, RECHARGE 93 SECONDS, PRECHARGE 7200, N2 BTLS, 16500,17000
08:15	09:00	0.75	9.00	Drill	DRILL 200mm HOLE FROM 1045 TO 1065M
09:00	09:30	0.50	9.50	Deviation survey	DEVIATION SURVEY @ 1045M MISS RUN
09:30	10:00	0.50	10.00	Drill	DRILL 200mmHOLE FROM 1065 TO 1074M
10:00	10:45	0.75	10.75	Deviation survey	DEVIATION SURVEY @ 1053M DEV 1 DEG 310 AZM
10:45	16:45	6.00	16.75	Drill	DRILL 200mm HOLE FROM 1074 TO 1168M
16:45	17:00	0.25	17.00	Rig Service	RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS
17:00	19:45	2.75	19.75	Drill	DRILL 200mmHOLE FROM 1168mTO 1207
19:45	20:00	0.25	20.00	Deviation survey	DEVIATION SURVEY 1194M -MISSRUN
20:00	20:45	0.75	20.75	Drill	DRILL 200mmHOLE FROM 1207mTO 1216m
20:45	21:15	0.50	21.25	Deviation survey	DEVIATION SURVEY
21:15	00:00	2.75	24.00	Drill	DRILL 200mmHOLE FROM 1216mTO 1254m

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 Cost 21,024	Mud Cum To Date 85,113		
Depth (mKB) 1,245.00	Density (kg/m³) 1030.0	Funnel Viscosity (s/L) 38	pH 9.0	PV Override (cp)	YP Override (Pa)	



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/9/2010

Report #: 28.0

Depth Progress: 284.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 46,049

Cum Cost to Date: 1,881,473

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 23.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
ULTRA PAC R	203.10	6.0
ALKAPAM 1103D CODE 1007	211.93	1.0
HYPER DRILL 247RD 1302	221.55	1.0
CAUSTIC SODA BEADS	44.63	2.0
MILLZAN	522.35	2.0
ULTRA PAC R	203.10	4.0
MTL SHURE SHALE	195.11	5.0
BICARB OF SODA CODE 1212	29.46	3.0
ENVIROFLOC CODE 1065	43.63	28.0
MTL SHURE SHALE	195.11	-1.0
CAL CARB O CODE 1037	11.36	41.0
CITRIC ACID	104.79	6.0
SAWDUST CODE 1122	6.53	14.0
ALKAPAM 1103D CODE 1007	211.93	1.0
ULTRA PAC R	203.10	4.0
HUMALITE CODE1084	16.58	4.0
MILLZAN	522.35	25.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		
Bit Run 2D	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 535.00	Depth Out (mKB) 1,473.00	Depth Drilled (m) 930.00	Drilling Time (hrs) 74.75	BHA ROP (m/hr) 12.4	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB) 951.00	Depth End (mKB) 1,026.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 6.75		
Depth Start (mKB) 1,045.00	Depth End (mKB) 1,207.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 10.00		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/9/2010

Report #: 28.0

Depth Progress: 284.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 46,049

Cum Cost to Date: 1,881,473

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 23.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

DRILLING SUMMARY

Depth Start (mKB) 1,207.00	Depth End (mKB) 1,254.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 3.50		

SAFETY CHECKS

Date	Type	Description
2/10/2010	Safety Meeting	RIG SERVICE

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)

SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)
2/9/2010	1,053.00	1.00	310.00	1,052.44	11.02	-8.20	3.62	0.24
2/9/2010	1,194.00	0.00	0.00	1,193.43	11.81	-9.14	4.21	0.21
2/9/2010	1,207.00	1.00	0.00	1,206.43	11.93	-9.14	4.17	2.31

FORMATIONS

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



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/10/2010

Report #: 29.0

Depth Progress: 209.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 49,783

Cum Cost to Date: 1,931,256

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 24.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB)	1,264.0	Depth End (mKB)	1,473.0	Target Formation	Sulphur Point	Target Depth (mKB)	1,465.00
Weather	CLEAR	Temperature (°C)	-14	Lease Condition			
Operation at 6am							
CIRCULATING AND CONDITIONING MUD TO LOG							
Operations Summary							
DRILL FROM 1254m - 1387m. TELEDRIFT SURVEY AT 1371m. DRILL FROM 1387m - 1424m. SAFETY STAND-DOWN WITH PRECISION DRILLING FIELD SUPERINTENDENT AND SAFETY PERSONNEL. DRILL FROM 1424m TO TD AT 1473m. CIRCULATE TO CONDITION MUD PROPERTIES. TRIP OUT OF HOLE ON WIPER TRIP.							
Operations Next Report Period							
COMPLETE WIPER TRIP, CONDITION HOLE FOR LOGGING, TRIP OUT TO LOG, LOG WELL, TRIP IN HOLE TO LAY DOWN DRILL PIPE							
Remarks							

DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:30	0.50	0.50	Rig Service	RIG SERVICE, FUNCTION PIPE RAMS C/O 4 SECONDS, GREASE LOWER DRIVE SHAFT & TIGHTEN BOLTS
00:30	08:00	7.50	8.00	Drill	DRILL 200mm HOLE FROM 1264m TO 1349M
08:00	08:15	0.25	8.25	Drills/BOP, etc.	DRILLS/BOP, WELL SECURE 70 SECONDS
08:15	08:30	0.25	8.50	Rig Service	RIG SERVICE FUNCTIONED ANNULAR PREVENTER C/O 8 SECONDS
08:30	13:15	4.75	13.25	Drill	DRILL 200mm HOLE FROM 1349 TO 1387M
13:15	13:30	0.25	13.50	Deviation survey	DEVIATION SURVEY @ 1371M DEV 2.5 DEG
13:30	16:30	3.00	16.50	Drill	DRILL 200mm HOLE FROM 1387 TO 1424
16:30	17:00	0.50	17.00	Safety stand-down	SAFETY STAND-DOWN WITH FEILD SUP AND SAFTY HAND
17:00	17:15	0.25	17.25	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 4 SECS
17:15	20:00	2.75	20.00	Drill	DRILL 200MM HOLE FROM 1424M TO 1454M
20:00	20:15	0.25	20.25	Drills/BOP, etc.	DRILLS/BOPS, WELL SECURE IN 77 SECS
20:15	22:00	1.75	22.00	Drill	DRILL 200MM HOLE FROM 1454 METERS TO 1473 METERS
22:00	23:15	1.25	23.25	Condition mud & circulate	CONDITION MUD & CIRCULATE PROIR TO WIPER TRIP TO CASING SHOE
23:15	00:00	0.75	24.00	Trip out of hole	TRIP OUT OF HOLE TO CASING SHOE.FLOW CHECK AT 1460M,1394M.BLOW KELLY

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 Cost 2,905	Mud Cum To Date 88,018	
Depth (mKB) 1,473.00	Density (kg/m³) 1040.0	Funnel Viscosity (s/L) 47	pH 11.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
CAUSTIC SODA BEADS	44.63	2.0
HUMALITE CODE1084	16.58	4.0



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/10/2010

Report #: 29.0

Depth Progress: 209.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 49,783

Cum Cost to Date: 1,931,256

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 24.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD ADDITIVES		
Description	Cost (/unit)	Consumed
ALKAPAM 1103D CODE 1007	211.93	1.0
MF VIS	500.41	2.0
CAUSTIC SODA BEADS	44.63	2.0
HUMALITE CODE1084	16.58	6.0
MF VIS	500.41	1.0
STARDRILL 1401	65.57	2.0
HUMALITE CODE1084	16.58	2.0
CAUSTIC SODA BEADS	44.63	3.0
HYPER DRILL 247RD 1302	221.55	1.0
STARDRILL 1401	65.57	5.0

MUD PUMPS		
Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) Volumetric Efficiency (%)

BIT SUMMARY						
Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 535.00	Depth Out (mKB) 1,473.00	Depth Drilled (m) 930.00	Drilling Time (hrs) 74.75	BHA ROP (m/hr) 12.4	IADC Bit Dull -----

DRILL STRING COMPONENTS					
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)

DRILLING SUMMARY						
Depth Start (mKB) 1,264.00	Depth End (mKB) 1,349.00	ROP Instantaneous (min/m) 4,000	Weight on Bit (daN) 100	Drilling Torque 100	Flow Rate (m³/min) 7.50	dP (SPP) (kPa) 10.50
RPM (rpm) 100	Motor RPM (rpm) 100	Bit RPM (rpm) 100	Slack-Off Hook Load (daN) 6,000	Drilling Time (hrs) 1.75		
Bit Run 2D	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 535.00	Depth Out (mKB) 1,473.00	Depth Drilled (m) 930.00	Drilling Time (hrs) 74.75	BHA ROP (m/hr) 12.4	IADC Bit Dull -----

DRILL STRING COMPONENTS					
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)

DRILLING SUMMARY						
Depth Start (mKB) 1,264.00	Depth End (mKB) 1,349.00	ROP Instantaneous (min/m) 4,000	Weight on Bit (daN) 100	Drilling Torque 100	Flow Rate (m³/min) 7.50	dP (SPP) (kPa) 10.50
RPM (rpm) 100	Motor RPM (rpm) 100	Bit RPM (rpm) 100	Slack-Off Hook Load (daN) 6,000	Drilling Time (hrs) 1.75		
Depth Start (mKB) 1,349.00	Depth End (mKB) 1,473.00	ROP Instantaneous (min/m) 4,000	Weight on Bit (daN) 100	Drilling Torque 100	Flow Rate (m³/min) 7.50	dP (SPP) (kPa) 10.50
RPM (rpm) 100	Motor RPM (rpm) 100	Bit RPM (rpm) 100	Slack-Off Hook Load (daN) 6,000	Drilling Time (hrs) 1.75		

SAFETY CHECKS		
Date	Type	Description
2/10/2010	Safety Meeting	REACHING TARGET ZERO
2/11/2010	Safety Meeting	TRIPPING



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/10/2010

Report #: 29.0

Depth Progress: 209.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 49,783

Cum Cost to Date: 1,931,256

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 24.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (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 M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/11/2010

Report #: 30.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 33,491

Cum Cost to Date: 1,964,746

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30		Rig Release Date 2/14/2010	DFS: 25.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,473.0	Depth End (mKB) 1,473.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
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Weather CLEAR	Temperature (°C) -15	Lease Condition
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Operation at 6am

WASHING AT 1440m TO CONDITION MUD FOR LOGGING

Operations Summary

COMPLETE WIPER TRIP TO CASING SHOE. WASH TO BOTTOM FROM 1434m - 1473m. FILL ON BOTTOM WAS 35m. CIRCULATE AND CONDITION MUD FOR LOGGING. INCREASE YP TO 15.8 pA. TRIP OUT OF HOLE TO LOG WITH A STRAP. STRAP RESULT 1473.63m. SAFETY MEETING WITH WEATHERFORD LOGGERS. RIG IN WEATHERFORD LOGGERS AND RUN STI/SPe/CNS/GR/MRT/HBC/CAL AND TAGGED BOTTOM AT 1456.3m

Operations Next Report Period

LOG WELL, TRIP IN, CONDITION MUD FOR LOG #2, TRIP OUT TO LOG, LOG RUN #2

Remarks

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	02:00	2.00	2.00	Trips	WIPER TRIP TO SHOE (377M) FC @ 735,370M
02:00	04:00	2.00	4.00	Trips	TRIPS, RIH FC @ 370,793 FILL PIPE, 1436
04:00	05:00	1.00	5.00	Condition mud & circulate	WASH TO BOTTOM FROM 1434 TO 1473
05:00	08:00	3.00	8.00	Condition mud & circulate	CONDITION MUD & CIRCULATE
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTIONED ANNULAR PREVENTER C/O 8 SECS
08:15	09:15	1.00	9.25	Condition mud & circulate	CONDITION MUD & CIRCULATE PRIOR TO COMING OUT TO LOG
09:15	15:00	5.75	15.00	Trip out of hole	TRIP OUT OF HOLE TO RUN WIRELINE LOGS, STRAP OUT, FLOW CHECK AT 1460M, 1399M, 736M, 142M, 0M. BLOW KELLY. FUNCTIONED BLIND RAMS WHILE ON BANK
15:00	15:15	0.25	15.25	Safety meeting	SAFETY MEETING WITH WEATHERFORD WIRELINE SERVICES
15:15	20:00	4.75	20.00	Logging - Open hole logs	LOG CAMERON M-74. TOOLS USED TO LOG HOLE ARE STI/MDA/SPED/CNT/MRT/DAC/UGR/CALF/WCCB, LOGGERS TAGGED BOTTOM @ 1456.3M @ 18:30 HRS
20:00	00:00	4.00	24.00	Logging - Open hole logs	WEATHERFORD LOGGING M-74

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 (%) 2.5	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 Cost 2,111		Mud Cum To Date 90,129
Depth (mKB) 1,473.00	Density (kg/m³) 1040.0	Funnel Viscosity (s/L) 56	pH 11.0	PV Override (cp) 16.0	YP Override (Pa) 15.800	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
MF VIS	500.41	3.0
ULTRA PAC R	203.10	3.0



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/11/2010

Report #: 30.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 33,491

Cum Cost to Date: 1,964,746

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 25.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa) 3,500	Slow Speed Check? Yes	Strokes (spm) 69
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
		Volumetric Efficiency (%) 98

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		
Bit Run 2D	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 535.00	Depth Out (mKB) 1,473.00	Depth Drilled (m) 930.00	Drilling Time (hrs) 74.75	BHA ROP (m/hr) 12.4	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		

SAFETY CHECKS

Date	Type	Description
2/12/2010	Safety Meeting	RIG FLOOR DANGER ZONES/DRAW WORKS DANGER ZONES

SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

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

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/12/2010

Report #: 31.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 81,746

Cum Cost to Date: 2,046,493

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 26.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,473.0		Depth End (mKB) 1,473.0		Target Formation Sulphur Point		Target Depth (mKB) 1,465.00	
Weather CLEAR			Temperature (°C) -10		Lease Condition		
Operation at 6am TRIPPING OUT LAYING DOWN DRILL STRING AT 990m							
Operations Summary RIG DOWN WEATHERFORD WIRELINE. TRIP IN HOLE WITH BIT TO 374m. CUT AND SLIP DRILL LINE. TRIP IN HOLE TO 902m. WASH AND REAM FROM 902m - 910m. TRIP IN HOLE TO 1431m. WASH AND REAM FROM 1431m -1473m. CIRCULATE AND CONDITION MUD. INCREASE VISCOSITY TO 86 sec AND YP TO 23 pA. TRIP OUT OF HOLE TO LOG. RIG IN WEATHERFORD LOGGERS AND RUN IN HOLE WITH LOG RUN#2 SPD/CNT/UGR/MR. LOG BOTTOM AT 1459m. TRIP IN THE HOLE TO CLEAN OUT AND LAY DOWN DRILL STRING.							

Operations Next Report Period

TRIP IN THE HOLE, LAY DOWN DRILL STRING, RUN AND CEMENT 139.7mm CASING

Remarks

SLOW REAMING FROM 1431m - 1473m . OBSERVED AT SHAKER WHAT APPEARED TO BE MUSKEG FORMATION CUTTINGS. INAC INSPECTION TODAY RESULTED IN SOME CONCERNS OVER LIQUID CONTENT IN REMOTE SUMP #2.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:30	0.50	0.50	Wireline logs	WIRELINE LOGS,LAY DOWN TOOL
00:30	00:45	0.25	0.75	Rig Service	RIG SERVICE, FUNCTIONED BLIND RAMS C/O 5 SECONDS
00:45	02:00	1.25	2.00	Trips	TRIPS, RIH, CLEAN OUT TRIP,FC @ 0,374M
02:00	02:30	0.50	2.50	Cut off Drill Line	CUT OFF DRILL LINE
02:30	04:00	1.50	4.00	Trips	TRIPS, RIH FC @ 374,793M FILLPIPE,BREAKCIRCULATION
04:00	04:45	0.75	4.75	Reaming	REAMING 902M - 910M
04:45	05:30	0.75	5.50	Trips	TRIPS,RIH,
05:30	08:00	2.50	8.00	Reaming	REAM FROM 1431M 1452M
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTIONED PIPE RAMS C/O 4 SECS
08:15	10:30	2.25	10.50	Reaming	REAM FROM 1452M TO 1473M
10:30	12:15	1.75	12.25	Condition mud & circulate	CONDITION MUD & CIRCULATE PRIOR TO COMING OUT TO LOG.BLOW KELLY
12:15	17:30	5.25	17.50	Trip out of hole	TRIP OUT OF HOLE TO FINISH LOGGING.FLOW CHECK AT 1464M,1399M,736M,142M,0M.FUNCTIONED BLIND RAMS WHILE OUT OF HOLE
17:30	17:45	0.25	17.75	Safety meeting	SAFETY MEETING WITH WEATHERFORD WIRELINE SERVICES
17:45	20:00	2.25	20.00	Logging - Open hole logs	LOGGING - OPEN HOLE LOGS,SPD/CNT/UGR/MRI,LOG FROM 1459M @ 19:30 HRS
20:00	22:30	2.50	22.50	Logging - Open hole logs	LOGGING - OPEN HOLE LOGS
22:30	00:00	1.50	24.00	Trips	TRIPS, CLEAN OUT, FC @ 0,375,738,

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 Cost 3,528	Mud Cum To Date 93,656	
Depth (mKB) 1,460.00	Density (kg/m³) 1040.0	Funnel Viscosity (s/L) 86	pH 9.5	PV Override (cp)	YP Override (Pa)	



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/12/2010

Report #: 31.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 81,746

Cum Cost to Date: 2,046,493

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 26.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
CAUSTIC SODA BEADS	44.63	3.0
MF VIS	500.41	5.0
BARITE CODE 1019	22.29	40.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa) 2,800	Slow Speed Check? Yes	Strokes (spm) 69
		Volumetric Efficiency (%) 98

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		
Bit Run 2D	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB) 535.00	Depth Out (mKB) 1,473.00	Depth Drilled (m) 930.00	Drilling Time (hrs) 74.75	BHA ROP (m/hr) 12.4	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB) 1,431.00	Depth End (mKB) 1,452.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 5,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 3.25		

SAFETY CHECKS

Date	Type	Description
2/13/2010	Safety Meeting	LAYING DOWN PIPE

SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
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FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/13/2010

Report #: 32.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 131,763

Cum Cost to Date: 2,178,255

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010		DFS: 27.69 days
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,473.0	Depth End (mKB) 1,473.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
Weather CLEAR	Temperature (°C) -15	Lease Condition	

Operation at 6am

RIGGING DOWN AND CLEANING TANKS WHILE WOC

Operations Summary

TRIP IN THE HOLE TO CLEAN OUT. REAM FROM 1431m - 1436m. WASH FROM 1436m - 1473m. CIRCULATE HOLE CLEAN. TRIP OUT OF HOLE LAYING DOWN DRILL STRING.SAFETY MEETING WITH TOAL DEPTH POWER TONGS. RIG UP TO RUN CASING. RUN 139.7mm PRODUCTION CASING TO 752m. BREAK CIRCULATION AT 752m. RUN 139.7mm CASING TO 1459m. WASH CASING FROM 1459m - 1473m. CIRCULATE AND CONDITION MUD FOR CEMENTING. SAFETY MEETING WITH SANJEL CEMENTERS. MIX AND PUMP 28 TONNE (25% OVER LOGGED VOLUME) THIXLITE WITH 0.4% LTR LEAD CEMENT AND 9 TONNE (25% OVER LOGGED VOLUME) EXPANDOMIX LWL WITH 0.15 CFL-3, 0.3% LTR. DISPLACED CEMENT WITH 18.7m3 WATER. FINAL CIRCULATING PRESSURE WAS 9500kpa. BUMPED PLUG WITH 13000kpa. FULL RETURNS THROUGHOUT JOB. THERE WAS NO CEMENT TO SURFACE.

Operations Next Report Period

WOC, REMOVE BOP AND INSTALL WELLHEAD. RELEASE RIG

Remarks

OBSERVED LOSSES WHILE TRIP OUT OF HOLE LAYING DOWN DRILL STRING. ACTUAL HOLE FILL VOLUME PLUS 2.8m3. CONTINUED LOSSES WHILE RUNNING CASING TO 752m OF DOUBLE STEEL DISPLACEMENT. LOSSES HEALED AFTER BREAKING CIRCULATION. TOTAL LOSSES 10m3.

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082
Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	01:45	1.75	1.75	Trips	TRIPS, RIH , FC @ 735M AND FILL PIPE
01:45	03:15	1.50	3.25	Reaming	REAMING 1431 TO 1436, WASH TO BOTTOM FROM 1451M
03:15	03:30	0.25	3.50	Rig Service	RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS
03:30	03:45	0.25	3.75	Condition mud & circulate	CIRCULATE HOLE CLEAN
03:45	08:00	4.25	8.00	Trips	TRIPS, LAY DOWN STRING FC @ 1467, 1399, 735, 129, 0M
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE
08:15	10:45	2.50	10.75	Lay down drill pipe	FINISH LAY DOWN DRILL PIPE. FLOW CHECK 735 METERS. 129M, 0M. FUNCTIONED BLIND RAMS WHILE ON BANK
10:45	11:00	0.25	11.00	Safety meeting	SAFETY MEETING WITH TOTAL DEPTH POWER TONGS
11:00	11:30	0.50	11.50	Rig up/down to run casing	RIG UP TO RUN CASING
11:30	18:00	6.50	18.00	Run casing	RUN CASING. FLOW CHECK 0M, 375M, 752M. BREAK CIRCULATION AT 752 METERS
18:00	20:00	2.00	20.00	Circulate And Condition	CIRCULATE CASING AND CONDITION MUD PRIOR TO CEMENT FINAL CEMENT JOB
20:00	21:30	1.50	21.50	Circulate And Condition	CIRCULATE AND CONDITION MUD PRIOR TO FINAL CEMENT
21:30	21:45	0.25	21.75	Safety meeting	SAFETY MEETING WITH SANJEL CEMENT SERVICES
21:45	00:00	2.25	24.00	Cementing	CEMENTING



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/13/2010

Report #: 32.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 131,763

Cum Cost to Date: 2,178,255

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 27.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

MUD CHECKS

Low Gravity Solids (%)	MBT (kg/m³)	Oil Water Ratio	Chlorides (mg/L) 1,100	Calcium (mg/L) 400	Lime (kg/m³)	Potassium (mg/L)
Electric Stab (V)	ECD - Manual Entry (kg/m³) 1097.0	Sand (%)	Solids (%) 2.5	Temp Bottom Hole (°C)	HTHP Pressure (kPa)	HTHP Filtrate (mL/30min)
Active Mud Volume (Surf) (m³)	Mud Lost to Hole (m³) 10.00	Cum Mud Lost to Hole (m³) 10.00	Daily Mud Cost 695	Mud Cum To Date 94,351		
Depth (mKB) 1,473.00	Density (kg/m³) 1050.0	Funnel Viscosity (s/L) 45	pH 9.0	PV Override (cp) 13.0	YP Override (Pa) 8.600	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
ALKAPAM 1103D CODE 1007	211.93	1.0
DESCO CODE 1054	80.46	6.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
Pump Number 2	Rod Diameter (mm) 152.4	Pump Rating (kW) 800.0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm)
		Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		
Bit Run 3D	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model HE18MSV	Serial Number 250656	IADC Codes 4-4-7-X
Nozzles (mm) 14.3/14.3/14.3	Depth In (mKB) 1,431.00	Depth Out (mKB) 1,473.00	Depth Drilled (m) 27.00	Drilling Time (hrs) 1.50	BHA ROP (m/hr) 18.0	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.42	1,466.97
Drill pipe - Stands			67	1,272.49	1,457.55
HWDP		102.0	6	55.79	185.06
X/O	58.0	156.0	1	0.28	129.27
DC (6.25 IN)	58.0	156.0	8	72.15	128.99
JARS-HYD	60.0	166.0	1	5.51	56.84
SHORT DC	64.0	166.0	1	4.61	51.33
DC (6.25 IN)	58.0	156.0	5	45.58	46.72
BIT SUB	0.7	161.0	1	0.91	1.14

DRILLING SUMMARY

Depth Start (mKB) 1,431.00	Depth End (mKB) 1,436.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 2,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 0.28		
Depth Start (mKB) 1,451.00	Depth End (mKB) 1,473.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 2,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 100	Motor RPM (rpm)	Bit RPM (rpm)	Slack-Off Hook Load (daN)	Drilling Time (hrs) 1.22		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/13/2010

Report #: 32.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 131,763

Cum Cost to Date: 2,178,255

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 27.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

SAFETY CHECKS

Date	Type	Description
2/13/2010	Safety Meeting	RUN CASING

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (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 M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/14/2010

Report #: 33.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 31,112

Cum Cost to Date: 2,209,367

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 28.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

Daily Operations

Depth Start (mKB) 1,473.0	Depth End (mKB) 1,473.0	Target Formation Sulphur Point	Target Depth (mKB) 1,465.00
Weather CLEAR	Temperature (°C) -8	Lease Condition	

Operation at 6am

Operations Summary

WOC , RIG DOWN, CLEAN MUD TANKS. RIG OUT BOP EQUIPMENT. SET CASING SLIPS WITH 30 daN. INSTALL PRIMARY SEAL AND SECONDARY SEAL WITH VETCO. PRESSURE TEST SEAL TO 16,800kpa. RIG RELEASED AT 08:00 hr

Operations Next Report Period

Remarks

Avg Connection Gas (Units)	Avg Background Gas (Units)	Avg Trip Gas (Units)	Max H2S (Units)
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

DAILY CONTACTS

Title Rig Manager	Job Contact TERRY SCHAUFERT	Phone Mobile 403-860-2645
Title Drilling Foreman	Job Contact JOHN WILLIAMS	Phone Mobile 403-451-7082

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
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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 Cost	Mud Cum To Date 94,351		
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
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MUD PUMPS

Pump Number	1	Rod Diameter (mm)	152.4	Pump Rating (kW)	800.0
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	Volumetric Efficiency (%)
Pump Number	2	Rod Diameter (mm)	152.4	Pump Rating (kW)	800.0
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 2A	Bit Type Bit	Size (mm) 200.0	Make VAREL	Model VTD513HX	Serial Number 4001140	IADC Codes ---
Nozzles (mm) 10.3/10.3/10.3/10....	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs) 0.00	BHA ROP (m/hr)	IADC Bit Dull -----

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
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DRILLING SUMMARY

Depth Start (mKB)	Depth End (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 Hook Load (daN)	Drilling Time (hrs)		



Daily Drilling

Well Name: PARA ET AL CAMERON M-74

Business Unit: NE BC & NWT COU

Rig: 436 Precision Drilling

Report For: 2/14/2010

Report #: 33.0

Depth Progress: 0.00

Total AFE Amount: 1,789,656.00

AFE Number: 09N010005

Daily Cost: 31,112

Cum Cost to Date: 2,209,367

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010	DFS: 28.69 days	
Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13	KB-Casing Flange Distance (m) 3.97	

SAFETY CHECKS

Date	Type	Description
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SAFETY INCIDENTS

Date	Comment	Type
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WELL CONTROL SUMMARY

Run Date	Casing Description	OD (mm)	Set Depth (mKB)	Vol (m³)	P (LO) (kPa)
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SURVEY DATA

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°30m)
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FORMATIONS

Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
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FRONT PAGE SUMMARY				DAILY CHECKS				FUEL @ 08:00 HOURS				DRILL PIPE				MUD PUMPS				GENERAL EQUIPMENT & SERVICES			
Your Sheet Serial Number: 0152436_20100113_1AP Window Software Version: 2010 01 13 User: Pason				1) Daily Visual Around Inspection 2) Detailed Inspection - Weekly (Visual Check List) 3) H2S Safety Testing if Required 4) Work License & Check Diagram Posted 5) Safety Signs Displayed 6) BOP Drills Performed 7) Visually Inspected BOPs - Flare Lines & Depress Lines				Rig: 3000 Fuel: 0 Weather: Clear Temp: 09:00 -15 Current Conditions: OVERCAST Wind Direction: S Wind Strength: UP TO 19 KM/H Road Condition: F AIR				Category: Thread Type: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Joint OD (mm): DC: 4 EXH DC: 150: 54: 122.3200: 16: 158.00 PM: 4 FH PMDP: 133: 52: 41.6000: 16: 133.00 DP: 4 FH SS25: 133: 85: 23.3000: 205: 133.90				No.: Make: Stroke Length (mm): 1: EMSCO: 2: EMSCO:				Description: Hours: LOADER: 2.00 CREW TRUCK: 0.00			
License No.: Operator: 1221 PARAMOUNT RESOURCES LTD Operator's A/E: Signature of Operator Representative: JOHN WILLIAMS Contract No.: PRECISION DRILLING, DIV OF PDC Contractor's Job No.: SSO: Signature of Contractor's Rig Manager: TERRY SCHAUERT Rig Release Date: Time:				Well Type: Re-Entry: VERT: ☐ Spud Date: Time: Rig Release Date: Time:																			

TOUR 1				SIGNATURE OF DRILLER				STEVE GENERT				START TIME				END TIME											
DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) Drill Pipe: Stands (m) Drill Pipe: Singles (m) Weight of DC (kdaN): Kelly Down (m) Weight of string (kdaN): Total (m)				BITS Bit Number: Size (mm): MDC Code: Manufacturer: Type: Serial No: Jaws (mm): Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date: DULL GRADE T ₁ : Gauge (mm): ODC: Reason Pulled: Total Run (m/hr): MDC: LOC: ERG:				MUD RECORD Mud Type: Water: ☐ Oil: ☐ Other: ☐ Time: Density (kg/m³): Formed Viscosity (cP): Fluid Loss (cm³): pH: Location: Depth (m): PVT (m): SOLIDS CONTROL Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): SAFETY Safety Topic: MEHL (kdaN) MACP (kdaN)				MUD MATERIALS ADDED Product: Amount: Type:				METRES DRILLED From (m) To (m) D-R-C: RPM: WOB (kdaN): REDUCED PUMP SPEED No. Pressure (kPa) Strokes/min: Depth (m): CIRCULATION Pump Type: Line Size (mm) GPM Pressure (kPa) Hours Run:				HOLE CONDITION Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m): BOILER No. Hours Run pH: Stack Temp (°C): DEVIATION SURVEYS Time Depth (m) Deviation Direction Type:				TIME LOG From To Elapsed Code: Details of Operations in Sequence & Remarks: 08:00 08:15 0:25 21 SAFETY MEETING WITH MULLEN TRUCKING 08:15 18:00 7:75 1A LOAD OUT RIG AND FOLLOW TO PARAMOUNT CAMP			

TOUR 2				SIGNATURE OF DRILLER				HAROLD RABY				START TIME				END TIME											
DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) Drill Pipe: Stands (m) Drill Pipe: Singles (m) Weight of DC (kdaN): Kelly Down (m) Weight of string (kdaN): Total (m)				BITS Bit Number: Size (mm): MDC Code: Manufacturer: Type: Serial No: Jaws (mm): Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date: DULL GRADE T ₁ : Gauge (mm): ODC: Reason Pulled: Total Run (m/hr): MDC: LOC: ERG:				MUD RECORD Mud Type: Water: ☐ Oil: ☐ Other: ☐ Time: Density (kg/m³): Formed Viscosity (cP): Fluid Loss (cm³): pH: Location: Depth (m): PVT (m): SOLIDS CONTROL Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): SAFETY Safety Topic: MEHL (kdaN) MACP (kdaN)				MUD MATERIALS ADDED Product: Amount: Type:				METRES DRILLED From (m) To (m) D-R-C: RPM: WOB (kdaN): REDUCED PUMP SPEED No. Pressure (kPa) Strokes/min: Depth (m): CIRCULATION Pump Type: Line Size (mm) GPM Pressure (kPa) Hours Run:				HOLE CONDITION Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m): BOILER No. Hours Run pH: Stack Temp (°C): DEVIATION SURVEYS Time Depth (m) Deviation Direction Type:				TIME LOG From To Elapsed Code: Details of Operations in Sequence & Remarks: 08:00 08:15 0:25 21 SAFETY MEETING WITH MULLEN TRUCKING 08:15 18:00 7:75 1A LOAD OUT RIG AND FOLLOW TO PARAMOUNT CAMP			

TOUR 3				SIGNATURE OF DRILLER				STEVE GENERT				START TIME				END TIME											
DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) Drill Pipe: Stands (m) Drill Pipe: Singles (m) Weight of DC (kdaN): Kelly Down (m) Weight of string (kdaN): Total (m)				BITS Bit Number: Size (mm): MDC Code: Manufacturer: Type: Serial No: Jaws (mm): Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date: DULL GRADE T ₁ : Gauge (mm): ODC: Reason Pulled: Total Run (m/hr): MDC: LOC: ERG:				MUD RECORD Mud Type: Water: ☐ Oil: ☐ Other: ☐ Time: Density (kg/m³): Formed Viscosity (cP): Fluid Loss (cm³): pH: Location: Depth (m): PVT (m): SOLIDS CONTROL Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): SAFETY Safety Topic: MEHL (kdaN) MACP (kdaN)				MUD MATERIALS ADDED Product: Amount: Type:				METRES DRILLED From (m) To (m) D-R-C: RPM: WOB (kdaN): REDUCED PUMP SPEED No. Pressure (kPa) Strokes/min: Depth (m): CIRCULATION Pump Type: Line Size (mm) GPM Pressure (kPa) Hours Run:				HOLE CONDITION Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m): BOILER No. Hours Run pH: Stack Temp (°C): DEVIATION SURVEYS Time Depth (m) Deviation Direction Type:				TIME LOG From To Elapsed Code: Details of Operations in Sequence & Remarks: 08:00 08:15 0:25 21 SAFETY MEETING WITH MULLEN TRUCKING 08:15 18:00 7:75 1A LOAD OUT RIG AND FOLLOW TO PARAMOUNT CAMP			

FRONT PAGE SUMMARY		Your Sheet Serial Number		Vendor Software Version		Year		Month		Day	
436		20100118_1A		Pason		2010		01		18	
Rig No.	Well Name	Surface Location	Power	Loc Type	Unique Well ID	Killy Bashing					
436	Pars et al Cameron M-7	4225 MCMW/1738	NT		3006746010117150	4					
License No. Operator		Contractor		Well Type		Re-Entry					
1221		PARAMOUNT RESOURCES LTD.		PRECISION DRILLING, DIV OF PDC		VERT					
Operator's A/E		Contractor's Job No		Start Date		Time					
BPM10005		530		2010/01/17		07:30					
Signature of Operator Representative		Signature of Contractor's Rig manager		Rig Release Date		Time					
JOHN WILLIAMS		TERRY SCHAUFERT									

DAILY CHECKS		OP RM	
1) Daily Work Around Inspection		NW ITS	
2) Detailed Inspection - Weekly (Using Check List)		NW ITS	
3) HCS Signs Perished & Reprinted		NW ITS	
4) Well Licence & Block Diagram Posted		NW ITS	
5) Flare Lines Checked		NW ITS	
6) BOP Drills Performed		NW ITS	
7) Visually Inspected BOPs - Flare Lines & Depress Lines		NW ITS	
1) Rig Site Health & Safety Meeting (week/monthly)		ITS	
2) CAMDC Rig Safety Inspection Checklist (weekly/monthly)		ITS	
3) Must Inspection before Running at Lowering		ITS	
4) Crown Saver Checked		ITS	
5) Motor Vibe Checked		ITS	

FUEL @ 08:00 HOURS	
Rig	142
Boiler	0
Op Fuel	0
WEATHER	
Time	06:00
Temp	-12
Current Conditions	OVERCAST
Wind Direction	SW
Wind Strength	UP TO 10 KMH
Road Condition	FAIR

DRILL PIPE	
Category	Thread Type
DC	4.5X4 DC
HW	4FH HWDP
DP	4FH SS45
ID (mm)	154
Linear Mass (kg/m)	122.3200
No. of Joints	18
Total Joint OD (mm)	154.00
ID (mm)	133
Linear Mass (kg/m)	41.6000
No. of Joints	10
Total Joint OD (mm)	133.00
ID (mm)	133
Linear Mass (kg/m)	23.3000
No. of Joints	205
Total Joint OD (mm)	133.00

CASING	
Category	Make
Category	Grade
Category	OD (mm)
Category	ID (mm)
Category	Linear Mass (kg/m)
Category	No. of Joints
Category	Total Length (m)
Category	AS to CSG Head (m)
Category	AS to CSG Bottom (m)

MUD PUMPS	
No.	Make
1	EMSCO
2	EMSCO
Stroke Length (mm)	

GENERAL EQUIPMENT & SERVICES	
Description	Hours
LOADER	0.00
CREW TRUCK	0.00



TOUR 1	
DRILLING ASSEMBLY	
No.	Component
1	BIT
2	DC (6.00 IN)
1	TELEDRIFT
11	DC (6.25 IN)
1	SHORT DC
1	JARS
2	DC (6.25 IN)
1	XJO
2	HWDP (4.5 IN)
0	Drill Pipe
0	Drill Pipe
0	Weight of DC (kg/m)
0	Weight of string (kg/m)

BITS	
Bit Number	311
Size (mm)	
MDC Code	
Manufacturer	YAREL
Type	HE4SMRVS
Serial No	7237
JCS (mm)	14.3 14.3 14.3 14.3
Depth Out (m)	178
Depth In (m)	0
Total Drilled (m)	178
Mrs Run Today	8.00
Cumulative Mrs Run	20.50
Entry Date	2010/01/18
DULL GRADE	
1	Gage (mm)
1	Reason Pulled
MDC	Total Run (m/hr)
LDC	
ERG	

MUD RECORD	
Mud Type	Water
Time	01:00 03:00 05:00
Density (kg/m³)	1020 1020 1020
Funnel Viscosity (cP)	35 35 35
Fluid Loss (cm³)	0 0 0
pH	10 10 10
Location	SHAKER SHAKER SHAKER
Depth (m)	135 138 150
PVT (m³)	32 34 38
SOLIDS CONTROL	
Equipment Name	Hours Run
UNITED OILFIELD	8.00
Intake Density (kg/m³)	1910
Over Flow Density (kg/m³)	1680
Under Flow Density (kg/m³)	
SAFETY	
Safety Topic	MEHL (kg/m) MACP (kg/m)

METRES DRILLED	
From (m)	To (m)
135	178
D-R-C	RPM
DRILL	65
WOB (kN)	3
REDUCED PUMP SPEED	
No.	Pressure (kg)
1	152 100
2	140 75
CIRCULATION	
Pump Type	Linear Size (mm)
1	152 100
2	140 75
HOLE CONDITION	
Hole Drag Up (kN)	
Hole Drag Down (kN)	
Torque at Bottom (Nm)	
Fill on Bottom (m)	
BOILER	
No.	Hours Run
165	8.00
pH	10.0
Stack Temp (°C)	225.00
DEVIATION SURVEYS	
Time	Depth (m)
05:15	122.00
Deviation	0.2
Direction	0 TELEDRIFT
Type	

TIME LOG	
From	To
00:00	00:15
Elapsed	Code
00:15	01:00
01:00	07:00
07:00	07:30
07:30	08:00
08:00	08:15
08:15	08:30
08:30	08:45
08:45	09:00
09:00	09:15
09:15	09:30
09:30	09:45
09:45	10:00
10:00	10:15
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93:00	93:15
93:15	93:30</

TOUR 3				SIGNATURE OF DRILLER										STEVE GEMERT				START TIME				20:00				END TIME				24:00																																							
DRILLING ASSEMBLY										BITS										MUD RECORD										MUD MATERIALS ADDED										METRES DRILLED										HOLE CONDITION										TIME LOG									
No.	Component	OD (mm)	ID (mm)	Length (m)	Bit Number	Size (mm)	MDC Code	Manufacturer	Type	Mud Type	Water	Gel	Other	Product	Amount	Type	From (m)	To (m)	B-H-C	RPM	WOB (kN)	Hole Drag Up (m)	Hole Drag Down (m)	Tongue at Bottom (m)	Fill on Bottom (m)	From	To	Flagged	Catch																																								
					Density (g/cm ³)	Funnel Viscosity (cP)	Fluid Loss (cm ³)	Serial No.	API (mm)	Density (g/cm ³)	Funnel Viscosity (cP)	Fluid Loss (cm ³)	Location				No.	Pressure (kPa)	Strokes/min	Depth (m)	No.	Hours Run	pH	Stack Temp (°C)																																													
					Depth Out (m)	Depth In (m)	Total Drilled (m)	How Run Today	Cumulative Hrs Run	SOLIDS CONTROL	Equipment Name	Hours Run	Inflow Density (g/cm ³)	Over Flow Density (g/cm ³)	Under Flow Density (g/cm ³)																																																						
					Entry Date																																																																
					DULL GRADE																																																																
					T ₁	Gauge (mm)																																																															
					Grill Pipe	Standards (m)																																																															
					Grill Pipe	Staples (m)																																																															
					Weight of OC (kg)	Kelly Down (m)																																																															
					Weight of string (kg)																																																																

FRONT PAGE SUMMARY				DAILY CHECKS				FUEL @ 08:00 HOURS				DRILL PIPE				MUD PUMPS				GENERAL EQUIPMENT & SERVICES			
Job No. 1221 Well Name: Pata et al Cameron M-7 Surface Location: 42°55'N 101°17'W Operator: JOHNN WILLIAMS Signature of Operator Representative: JOHNN WILLIAMS				Daily Checks: 1) Rig Safety & Security Inspection - Visual (Daily Check List) 2) H2S System Tested & Monitored 3) Well Leaks & Spills Diagram Ported 4) Flare Line Checked 5) BOP Drills Performed 6) BOP Drills Performed 7) Visually Inspected BOPs - Flare Lines & Regulator Lines 8) Casing Rig Safety Inspection Checklist (Weekly/Monthly) 9) Mast Inspection before Raising or Lowering 10) Crown Saver Checked 11) White Kite Checked				Fuel @ 08:00 HOURS: Fuel Type: BOILER Fuel Qty: 0 Fuel Cost: 0 Fuel Supplier: OVERCAST Wind Direction: N Wind Strength: UP TO 10 KMH Road Condition: FAIR				Drill Pipe: Category: DC Thread Type: 4.5X4 Grade: DC OD (mm): 154 ID (mm): 50 Linear Mass (kg/m): 122.2000 No. of Joints: 16 Total Length (m): 158.00 Category: 4FH Thread Type: 4WDP Grade: 4FH OD (mm): 132 ID (mm): 65 Linear Mass (kg/m): 41.6000 No. of Joints: 16 Total Length (m): 132.00 Category: 4FH Thread Type: 4SSS Grade: 4FH OD (mm): 132 ID (mm): 65 Linear Mass (kg/m): 23.3000 No. of Joints: 205 Total Length (m): 133.00				Mud Pumps: No. 1: EMSCO Make: Make Stroke Length (mm): 158.00 No. 2: EMSCO Make: Make Stroke Length (mm): 158.00				General Equipment & Services: Description: LOADER Hours: 0.00 Description: CREW TRUCK Hours: 0.00			
License No. 1221 Operator: JOHNN WILLIAMS Signature of Operator Representative: JOHNN WILLIAMS Signature of Contractor's Rig Manager: TERRY SCHAUFERT				Contractor: PRECISION DRILLING, DIV OF PDC Contract No. 1221 Date: 2010/01/17 Release Date: Time				Weather: Time: 08:00 Temp: -10 Current Conditions: OVERCAST Wind Direction: N Wind Strength: UP TO 10 KMH Road Condition: FAIR				Casing: Category: Make: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Length (m): KB to CSG Head (m): KB to CSG Bottom (m)				Shale Shakers: No. 1: Size: 84 Changed: New: 84 Size: 120 Changed: New: 120 Size: 115 Changed: New: 115 Size: 64 Changed: New: 64 No. 2: Size: 84 Changed: New: 84 Size: 120 Changed: New: 120 Size: 115 Changed: New: 115 Size: 64 Changed: New: 64							

TOUR 1				TOUR 2				TOUR 3			
DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) 1 BIT 311 17.05 2 DC (8.00 IN) 154 2.47 11 TELEDRIFT 154 99.52 1 SHOBT DC 154 4.61 1 JARS 154 5.51 2 DC (8.25 IN) 158 18.21 1 XCO 155 0.28 6 HWDP (4.5 IN) 132 55.78				DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) 1 BIT 311 17.05 2 DC (8.00 IN) 154 2.47 11 TELEDRIFT 154 99.52 1 SHOBT DC 154 4.61 1 JARS 154 5.51 2 DC (8.25 IN) 158 18.21 1 XCO 155 0.28 6 HWDP (4.5 IN) 132 55.78				DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) 1 BIT 311 17.05 2 DC (8.00 IN) 154 2.47 11 TELEDRIFT 154 99.52 1 SHOBT DC 154 4.61 1 JARS 154 5.51 2 DC (8.25 IN) 158 18.21 1 XCO 155 0.28 6 HWDP (4.5 IN) 132 55.78			
DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) 1 BIT 311 17.05 2 DC (8.00 IN) 154 2.47 11 TELEDRIFT 154 99.52 1 SHOBT DC 154 4.61 1 JARS 154 5.51 2 DC (8.25 IN) 158 18.21 1 XCO 155 0.28 6 HWDP (4.5 IN) 132 55.78				DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) 1 BIT 311 17.05 2 DC (8.00 IN) 154 2.47 11 TELEDRIFT 154 99.52 1 SHOBT DC 154 4.61 1 JARS 154 5.51 2 DC (8.25 IN) 158 18.21 1 XCO 155 0.28 6 HWDP (4.5 IN) 132 55.78				DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) 1 BIT 311 17.05 2 DC (8.00 IN) 154 2.47 11 TELEDRIFT 154 99.52 1 SHOBT DC 154 4.61 1 JARS 154 5.51 2 DC (8.25 IN) 158 18.21 1 XCO 155 0.28 6 HWDP (4.5 IN) 132 55.78			

FRONT PAGE SUMMARY

Tool Sheet Serial Number

2152436_20100120_1A

Vendor Software Version

1A

Year

2010

Month

01

Day

20

DAILY CHECKS

OP

RM

1) Daily Risk Assessment

OK

110

2) Detailed Inspection - Weekly Above Check List

OK

110

3) H2S Signs Posted if Required

OK

110

4) Well License & Stock Diagrams Posted

OK

110

5) Flow Lines Checked

OK

110

6) BOP Drills Performed

OK

110

7) Visually Inspected BOPs - Flow Lines & Bypass Lines

OK

110

FUEL @ 08:00 HOURS

Rig

92

Boiler

0

On Fuel

0

WEATHER

Time

05:00

Temp

4

Current Conditions

OVERCAST

Wind Direction

SW

Wind Strength

UP TO 10 KMPH

Read Condition

FAIR

DRILL PIPE

Category

Thread Type

Grade

OD (mm)

ID (mm)

Linear Mass (kg/m)

No. of Joints

Total Length (m)

KB in CSG Head (m)

KB in CSG Bottom (m)

DC

4.524

DC

156

86

122.3000

16

168.00

4FW

4FW

FWDP

132

62

41.6000

16

133.00

OP

4FW

SSS

132

65

23.3000

205

139.00

MUD PUMPS

No.

Make

Stroke Length (mm)

1

EMSCO

2

EMSCO

GENERAL EQUIPMENT & SERVICES

Description

Hours

LOADER

0.00

CREW TRUCK

0.00

License No.

Operator

Contractor

Well Type

Re-Entry

1221

PARAMOUNT RESOURCES LTD

PRECISION DRILLING, ON OF PDC

VERT

☐

Operator's A/E

Contractor's Job No

Serial Date

Time

2010/01/17

07:30

07:30

Signature of Operator Representative

Signature of Contractor's Rep Manager

Rig Release Date

Time

JOHN WILLIAMS

TERRY SCHAUFERT

DAILY CHECKS

1) Risk Sign Health & Safety Meeting (once/month)

OK

110

2) CAHOC Rig Safety Inspection Checked (once/month)

OK

110

3) H2S Signs Posted if Required

OK

110

4) Well License & Stock Diagrams Posted

OK

110

5) Flow Lines Checked

OK

110

6) BOP Drills Performed

OK

110

7) Visually Inspected BOPs - Flow Lines & Bypass Lines

OK

110

WEATHER

Time

05:00

Temp

4

Current Conditions

OVERCAST

Wind Direction

SW

Wind Strength

UP TO 10 KMPH

Read Condition

FAIR

DRILL PIPE

Category

Thread Type

Grade

OD (mm)

ID (mm)

Linear Mass (kg/m)

No. of Joints

Total Length (m)

KB in CSG Head (m)

KB in CSG Bottom (m)

DC

4.524

DC

156

86

122.3000

16

168.00

4FW

4FW

FWDP

132

62

41.6000

16

133.00

OP

4FW

SSS

132

65

23.3000

205

139.00

MUD PUMPS

No.

Make

Stroke Length (mm)

1

EMSCO

2

EMSCO

GENERAL EQUIPMENT & SERVICES

Description

Hours

LOADER

0.00

CREW TRUCK

0.00

TOUR 1

SIGNATURE OF DRILLER

STEVE GENERT

START TIME

00:00

END TIME

08:00

DRILLING ASSEMBLY

No.

Component

OD (mm)

ID (mm)

Length (m)

1

BIT

311

0.31

2

DC (8.00 IN)

194

17.05

1

TELEDRIFT

154

2.47

11

DC (8.25 IN)

156

99.52

1

SHOBI DG

185

4.83

1

JARS

166

5.51

2

DC (8.25 IN)

156

18.21

1

KJO

153

9.28

6

FWDP(4.5 IN)

132

55.79

DRILL PIPE

Standards (m)

170.85

DC

Standards (m)

0.50

Weight of DC (subA)

20

Kelly Down (m)

3.40

Weight of string (subA)

271

Total (m)

378.00

DRILL PIPE

Standards (m)

170.85

DC

Standards (m)

0.50

Weight of DC (subA)

20

Kelly Down (m)

3.40

Weight of string (subA)

271

Total (m)

378.00

DRILLING ASSEMBLY

No.

Component

OD (mm)

ID (mm)

Length (m)

1

BIT

311

0.31

2

DC (8.00 IN)

194

17.05

1

TELEDRIFT

154

2.47

11

DC (8.25 IN)

156

99.52

1

SHOBI DG

185

4.83

1

JARS

166

5.51

2

DC (8.25 IN)

156

18.21

1

KJO

153

9.28

6

FWDP(4.5 IN)

132

55.79

DRILL PIPE

Standards (m)

170.85

DC

Standards (m)

0.50

Weight of DC (subA)

20

Kelly Down (m)

3.40

Weight of string (subA)

271

Total (m)

378.00

DRILL PIPE

Standards (m)

170.85

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DRILLING ASSEMBLY

No.

Component

OD (mm)

ID (mm)

Length (m)

1

BIT

311

0.31

2

DC (8.00 IN)

194

17.05

1

TELEDRIFT

154

2.47

11

DC (8.25 IN)

156

99.52

1

SHOBI DG

185

4.83

1

JARS

166

5.51

2

DC (8.25 IN)

156

18.21

1

KJO

153

9.28

6

FWDP(4.5 IN)

132

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DRILLING ASSEMBLY

No.

Component

OD (mm)

ID (mm)

Length (m)

FRONT PAGE SUMMARY

Job No.	Well Name	Surface Location	Flow Line Type	Unique Well ID	Well Number
436	Pana et al Cameron M-74	40 55 54.00N 117 28 15.00W	NT	300M746010117150	4
License No.	Operator	Contractor	Drilling Unit	Drilling Unit	Drilling Unit
1221	PARAMOUNT RESOURCES LTD	PRECISION DRILLING, DIV OF POC	PRECISION DRILLING, DIV OF POC	PRECISION DRILLING, DIV OF POC	PRECISION DRILLING, DIV OF POC
Operator's Aff	Signature of Operator Representative	Signature of Contractor's Rep. Manager	Signature of Driller	Signature of Driller	Signature of Driller
JOHN WILLIAMS	JOHN WILLIAMS	JOHN WILLIAMS	JOHN WILLIAMS	JOHN WILLIAMS	JOHN WILLIAMS

DAILY CHECKS

1) Daily Site Health & Safety Meeting (see Appendix 1)	Y/N	TS
2) Drilling Inspection - Weekly (Rig Check List)	Y/N	TS
3) H2S Safety System (if installed)	Y/N	TS
4) Well License & Stack Diagram Posted	Y/N	TS
5) Drilling Log Sheet	Y/N	TS
6) BOP Pressure Performance	Y/N	TS
7) Visually Inspected BOP - Flare Lines & Depress Lines	Y/N	TS
1) BOP Site Health & Safety Meeting (see Appendix 1)	Y/N	TS
2) CHOC/BOP Safety Inspection Checklist (per Appendix 1)	Y/N	TS
3) Manual Inspection between Running or Lifting	Y/N	TS
4) Crown Saver Checked	Y/N	TS
5) Master MIs Checked	Y/N	TS

FUEL @ 08:00 HOURS

Rig	116
Boiler	0
Op Fuel	0
Weather	0
Time	06:00
Temp	-12
Current Conditions	OVERCAST
Wind Direction	SW
Wind Strength	UP TO 10 KM/H
Road Condition	FAIR

DRILL PIPE

Category	Thread Type	Grade	OD (mm)	ID (mm)	Linear Mass (kg/m)	No. of Joints	Total Length (m)	Tool Joint OD (mm)
DC	4.5XH	DC	158	58	122.3000	16	158.00	
HW	4FH	HWDP	158	58	41.6000	16	133.00	
DP	4FH	SSS	158	58	23.3000	205	133.00	

MUD PUMPS

No.	Make	Stroke Length (mm)
1	EMSCO	
2	EMSCO	

GENERAL EQUIPMENT & SERVICES

Description	Hours
LOADER	0.00
CREW TRUCK	0.00

SHALES

No.	Top Screen	Middle Screen	Middle Screen	Bottom Screen
1	84	120	115	84
2	84	120	115	84
3	84	120	115	84
4	84	120	115	84
5	84	120	115	84
6	84	120	115	84
7	84	120	115	84
8	84	120	115	84
9	84	120	115	84
10	84	120	115	84
11	84	120	115	84
12	84	120	115	84
13	84	120	115	84
14	84	120	115	84
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16	84	120	115	84
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21	84	120	115	84
22	84	120	115	84
23	84	120	115	84
24	84	120	115	84
25	84	120	115	84
26	84	120	115	84
27	84	120	115	84
28	84	120	115	84
29	84	120	115	84
30	84	120	115	84
31	84	120	115	84
32	84	120	115	84
33	84	120	115	84
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94	84	120	115	84
95	84	120	115	84
96	84	120	115	84
97	84	120	115	84
98	84	120	115	84
99	84	120	115	84
100	84	120	115	84

TOUR 1

No.	Component	OD (mm)	ID (mm)	Length (m)</
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FRONT PAGE SUMMARY				DAILY CHECKS				OP RM		FUEL @ 08:00 HOURS		DRILL PIPE				MUD PUMPS		GENERAL EQUIPMENT & SERVICES		 Pason CLP
(Unit Sheet Serial Number) DYS2436_20100121_1AP (Welder Software Version) Pason Year 2010 Month 01 Day 21				1) Daily High Ambient Inspection 2) Detailed Inspection - Weekly Sliding Check List 3) HPS Signs Posted & Maintained 4) Weld License & Stick Diagram Posted 5) Hare Lines Checked 6) BOP Article Performed 7) Visually Inspected BOPs - Flare Lines & Discharge Lines						Rig No. 436 Fuel Oil 08:00 HOURS		Category Thread Type Grade OD (mm) ID (mm) Linear Mass (kg/m) No. of Joints Tool Joint OD (mm)				No. Make Stroke Length (mm)		Description Hours		
Rig No. 436 Well Name Para et al Cameron M-74 Surface Location 44-03 N 103-01 W 17-28-10 Prev Loc Type NT Unique Well ID 300M746010117150 Kelly Rushing 4																				
License No. 1291 Operator PARAMOUNT RESOURCES LTD. Operator's A/E CONTRACTOR'S A/E SIGNATURE OF OPERATOR REPRESENTATIVE JOHN WILLIAMS SIGNATURE OF OPERATOR REPRESENTATIVE TERRY SCHAUERT				CONTRACTOR PRECISION DRILLING, DIV OF PDC CONTRACTOR'S JOB NO. 520 Date 2010/01/21 Release Date				Well Type VERT NE-Entry ☐		Weather Time Temp Wind Direction Wind Strength Road Condition		CASING Category Make Grade OD (mm) ID (mm) Linear Mass (kg/m) No. of Joints Total Length (m) KB to CSG Head (m) KB to CSG Bottom (m)								

TOUR 1										SIGNATURE OF DRILLER										HAROLD BABY										START TIME										END TIME																													
DRILLING ASSEMBLY										BITS										MUD RECORD										MUD MATERIALS ADDED										METRES DRILLED										HOLE CONDITION										TIME LOG									
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TOUR 2										SIGNATURE OF DRILLER										MIKE KEMICK										START TIME										END TIME																													
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Bottom Screen		
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TOUR 1	SIGNATURE OF DRILLER	HAROLD RABY	START TIME	00:00	END TIME	08:00
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TOUR 2	SIGNATURE OF DRILLER	MIKE KEMICK	START TIME	08:00	END TIME	20:00
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TOUR 3	SIGNATURE OF DRILLER	HAROLD RABY	START TIME	20:00	END TIME	24:00
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FRONT PAGE SUMMARY				Tool Steel Serial Number: 3752436_20100124_10P Jason				Vendor Software Version: 2010				Year: 01				Month: 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TOUR 3				SIGNATURE OF DRILLER				HAROLD RABY				START TIME				20:00				END TIME				24:00															
DRILLING ASSEMBLY												BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG							
No.	Component	MD (mm)	Length (m)	Bit Number	Size (mm)	MDC Code	Manufacturer	Type	Grade	Wt. (mm)	Depth Out (m)	Mud Type	Water	Oil	Other	Product	Amount	Type	From (m)	To (m)	D-R-C	RPM	WOB (kda)	Hole Drag Up (da)	Hole Drag Down (da)	Torque at Bottom (da)	FW on Bottom (m)	From	To	Elapsed	Code	Details of Operations in Sequence & Remarks							
												Density (kg/m ³)																20:00	22:45	2.75	25	MIX FRAC ATTACK AND BARITE PILL							
												Funnel Viscosity (s/s)																22:45	24:00	1.25	5	PUMP FRAC ATTACK PILL AT 700M, PULL UP TO 548M CIRCULATED							
												Fluid Loss (cm)																											
												pH																											
												Location																											
												Depth (m)																											
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FRONT PAGE SUMMARY										DAILY CHECKS										FUEL @ 08:00 HOURS										DRILL PIPE										MUD PUMPS										GENERAL EQUIPMENT & SERVICES																			
Tour Sheet Serial Number: 0152458_20100128_1A Vendor Software Version: Pason Year: 2010 Month: 01 Day: 28 Rig No.: 438 Well Name: Pars et al at Cameron M-74 Surface Location: 46535 64.80N 117.33E Prov: VT Loc Type: 300M/740010117150 Unique Well ID: 4 Kelly Numbering: 4 License No.: 1221 Operator: PARAMOUNT RESOURCES LTD Contractor: PRECISION DRILLING, DIV OF PDC Contractor's Job No: 530 Signature of Operator Representative: JOHN WILLIAMS Signature of Contractor's Rig manager: TERRY SCHAUFERT										DAILY CHECKS 1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Alpha Check List) 3) H2S Sling Tested if Required 4) Well License & Stack Diagram Posted 5) Flow Lines Checked 6) BOP Drive Performance 7) Visually Inspected BOPs - Flow Lines & Regressor Lines 11) Rig Site Health & Safety Meeting (one/crew/month) 12) CAUDC Rig Safety Inspection Checklist (one/shift/month) 13) Mast Inspection before Raising or Lowering 14) Crown Saver Checked 15) Motor Ribs Checked										WEATHER Time: Temp: Current Conditions: Wind Direction: Wind Strength: Road Condition:										DRILL PIPE Category: Thread Type: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Tool Joint OD (mm): Casing: Category: Make: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Length (m): KB to CSG Head (m): KB to CSG Bottom (m):										MUD PUMPS No.: Make: Stroke Length (m): SHALE SHAKERS No.: Top Screen: Middle Screen: Middle Screen: Bottom Screen: Size: Changed: New: Size: Changed: New: Size: Changed: New: Size: Changed: New:										GENERAL EQUIPMENT & SERVICES Description: Hours:																			
TOUR 1 SIGNATURE OF DRILLER HAROLD RABY										TOUR 2 SIGNATURE OF DRILLER MIKE KEMICK										TOUR 3 SIGNATURE OF DRILLER HAROLD RABY										TOUR 4 SIGNATURE OF DRILLER HAROLD RABY										TOUR 5 SIGNATURE OF DRILLER HAROLD RABY										TOUR 6 SIGNATURE OF DRILLER HAROLD RABY																			
DRILLING ASSEMBLY No. Component: OD (mm): ID (mm): Length (m): Drill Pipe: Stands (m): Drill Pipe: Singles (m): Weight of DC (kg): Kelly Down (m): Weight of string (kg): Total (m):										BITS Bit Number: Size (mm): MDC Code: Manufacturer: Type: Serial No: Jets (mm): Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date: DULL GRADE T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LOC: Total Run (m/hr): BRG:										MUD RECORD Mud Type: Water: Oil: Other: Time: Density (kg/m ³): Funnel Viscosity (cP): Fluid Loss (cm): pH: Location: Depth (m): PVT (m): SOLIDS CONTROL Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³): SAFETY Safety Topic: MEHR (kg): MACP (kg):										MUD MATERIALS ADDED Product: Amount: Type:										METRES DRILLED From (m): To (m): D-R-C: RPM: WOB (kg): REDUCED PUMP SPEED No.: Pressure (kPa): Strokes/min: Depth (m): CIRCULATION Pump Type: Linear Size (mm): GPM: Pressure (kPa): Hours Run: DEVIATION SURVEYS Time: Depth (m): Deviation (Direction): Type:										HOLE CONDITION Hole Drag Up (kg): Hole Drag Down (kg): Torque at Bottom (Nm): Fill on Bottom (m): BOILER No.: Hours Run: pH: Stack Temp (°C): TIME LOG From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:										TOUR 1 START TIME: 08:00 END TIME: 08:00									
DRILLING ASSEMBLY No. Component: OD (mm): ID (mm): Length (m): Drill Pipe: Stands (m): Drill Pipe: Singles (m): Weight of DC (kg): Kelly Down (m): Weight of string (kg): Total (m):										BITS Bit Number: Size (mm): MDC Code: Manufacturer: Type: Serial No: Jets (mm): Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date: DULL GRADE T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LOC: Total Run (m/hr): BRG:										MUD RECORD Mud Type: Water: Oil: Other: Time: Density (kg/m ³): Funnel Viscosity (cP): Fluid Loss (cm): pH: Location: Depth (m): PVT (m): SOLIDS CONTROL Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³): SAFETY Safety Topic: MEHR (kg): MACP (kg):										MUD MATERIALS ADDED Product: Amount: Type:										METRES DRILLED From (m): To (m): D-R-C: RPM: WOB (kg): REDUCED PUMP SPEED No.: Pressure (kPa): Strokes/min: Depth (m): CIRCULATION Pump Type: Linear Size (mm): GPM: Pressure (kPa): Hours Run: DEVIATION SURVEYS Time: Depth (m): Deviation (Direction): Type:										HOLE CONDITION Hole Drag Up (kg): Hole Drag Down (kg): Torque at Bottom (Nm): Fill on Bottom (m): BOILER No.: Hours Run: pH: Stack Temp (°C): TIME LOG From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:										TOUR 2 START TIME: 08:00 END TIME: 20:00									
DRILLING ASSEMBLY No. Component: OD (mm): ID (mm): Length (m): Drill Pipe: Stands (m): Drill Pipe: Singles (m): Weight of DC (kg): Kelly Down (m): Weight of string (kg): Total (m):										BITS Bit Number: Size (mm): MDC Code: Manufacturer: Type: Serial No: Jets (mm): Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date: DULL GRADE T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LOC: Total Run (m/hr): BRG:										MUD RECORD Mud Type: Water: Oil: Other: Time: Density (kg/m ³): Funnel Viscosity (cP): Fluid Loss (cm): pH: Location: Depth (m): PVT (m): SOLIDS CONTROL Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³): SAFETY Safety Topic: MEHR (kg): MACP (kg):										MUD MATERIALS ADDED Product: Amount: Type:										METRES DRILLED From (m): To (m): D-R-C: RPM: WOB (kg): REDUCED PUMP SPEED No.: Pressure (kPa): Strokes/min: Depth (m): CIRCULATION Pump Type: Linear Size (mm): GPM: Pressure (kPa): Hours Run: DEVIATION SURVEYS Time: Depth (m): Deviation (Direction): Type:										HOLE CONDITION Hole Drag Up (kg): Hole Drag Down (kg): Torque at Bottom (Nm): Fill on Bottom (m): BOILER No.: Hours Run: pH: Stack Temp (°C): TIME LOG From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:										TOUR 3 START TIME: 20:00 END TIME: 24:00									



FRONT PAGE SUMMARY										DAILY CHECKS										FUEL @ 08:00 HOURS										DRILL PIPE										MUD PUMPS										GENERAL EQUIPMENT & SERVICES																			
Job No. 2552436 Well Name 20100127-1A Location Pason Year 2010 Month 01 Day 27 Rig No. 436 Operator Pason et al Cameron M-74 Contractor TERRY SCHAUFERT Well Type VERT Re-Entry ☐										1. Daily Walk Around Inspection ☒ 2. Daily Inspection - Weekly Using Check List ☒ 3. 125 Series Pressure Transmitter ☒ 4. Well Pressure & Stock Diagram Printed ☒ 5. Flare Lines Striked ☒ 6. BOP Drive Performance ☒ 7. Annulus Inspected 6029 - Flare Lines & Discharge Lines ☒										Product Rig Amount 125 Op Fuel 0 Weather Time 06:30 Temp -17 Current Conditions CLEAR Wind Direction S Wind Strength UP TO 19 KMH Road Condition FAIR										Category Thread Type Grade OD (mm) ID (mm) Linear Mass (kg/m) No. of Joints Tool Joint OD (mm) DC 4.5XH DC 156 58 122.3200 16 158.00 HW 4FH 1WDP 133 62 41.6000 16 133.00 OP 4FH SS85 133 65 23.3000 205 133.00										No. Make Stroke Length (mm) 1 EMSCO 2 EMSCO										Description Hours LOADER 0.00 CREW TRUCK 0.00																			
License No. 1221 Operator PARAMOUNT RESOURCES LTD Contractor's Job No. PRECISION DRILLING, DIV OF PDG Well Type VERT Re-Entry ☐ Operator's AFE Signature of Operator Representative JOHN WILLIAMS Signature of Contractor's Rig Manager TERRY SCHAUFERT Rig Release Date 2010/01/24										1. Rig Site Health & Safety Meeting (one/week/monthly) ☒ 2. CASING RIG Safety Inspection Checklist (one/week/monthly) ☒ 3. Most Inspection before Ream or Lowering ☒ 4. Comm Survey Checked ☒ 5. Motor Valve Checked ☒										Category Make Grade OD (mm) ID (mm) Linear Mass (kg/m) No. of Joints Total Length (m) KB to CSG Head (m) KB to CSG Bottom (m) SURFACE LKSID L-55 219 206 35.72 28 373 4 377										No. Top Screen Middle Screen Middle Screen Bottom Screen 1 84 120 115 84																																							
TOUR 1 DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) 1 BIT 200 58 0.22 1 BIT SUB 162 0.91 1 XJO 162 0.28 6 HWDP 133 55.79										DRILLING ASSEMBLY Bit Number 2 Size (mm) 200 MDC Code Manufacturer VAREL Type HE28MRSV Serial No. 245817 Depth Out (m) Depth In (m) Total Drilled (m) Wash Run Today Cumulative Wt Run 0.00 Entry Date 2010/01/24 DULL GRADE No. Component Stands (m) Stands (m) Stands (m) 22 Drill Pipe 532.44 0 Drill Pipe 0.00 Weight of DC (kg) 22 Kelly Down (m) 11.89 Weight of string (kg) 33 Total (m) 601.68										MUD RECORD Mud Type Water ☒ Oil ☐ Other ☐ Time 04:00 Density (kg/m³) 1010 Funnel Viscosity (cP) 30 Fluid Loss (cm) pH Location SHAKER Depth (m) 486 PVT (m) 31 SOLIDS CONTROL Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³) UNITED OILFIELD 8.00 1010 1020 1830 SAFETY Safety Topic MEHL (kg) MACP (kg)										MUD MATERIALS ADDED Product Amount Type FRAC ATTACK 60 S% BARITE CODE 1019 15 S% CAUSTIC SODA BEADS 1 S%										METRES DRILLED From (m) To (m) D-R-C RPM WOB (kN) 470 538 REAM 28 1 REDUCED PUMP SPEED No. Pressure (kPa) Strokes/min Depth (m) 1 3300 0 0 470 CIRCULATION Pump Type Line Size (mm) GPM Pressure (kPa) Hours Run 1 152 110 1800 9.00										HOLE CONDITION Hole Drag Up (kN) Hole Drag Down (kN) Torque at Bottom (Nm) Fill on Bottom (m) BOILER No. Hours Run pH Stack Temp (°C) 165 8.00 9.5 375.00 DEVIATION SURVEYS Time Depth (m) Deviation Direction Type										TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks 00:00 01:30 1:30 6 TRIPS, POOH, FLOW CHECK @ 370.150M 01:30 02:28 0:58 6 HANDLE DIRECTIONAL TOOLS 02:28 03:45 1:17 6 TRIPS, RIG, FC @ 370.377M 03:45 04:15 0:30 6 HIT BRIDGE AT 477M REAMED AND CIRCULATED BOTTOMS UP 04:15 08:00 3:45 3 REAMING TO 600M									
TOUR 2 DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) 1 BIT 200 58 0.22 1 BIT SUB 162 0.91 1 XJO 162 0.28 6 HWDP 133 55.79										DRILLING ASSEMBLY Bit Number 2 Size (mm) 200 MDC Code Manufacturer VAREL Type HE28MRSV Serial No. 245817 Depth Out (m) Depth In (m) Total Drilled (m) Wash Run Today Cumulative Wt Run 0.00 Entry Date 2010/01/24 DULL GRADE No. Component Stands (m) Stands (m) Stands (m) 22 Drill Pipe 532.44 0 Drill Pipe 0.00 Weight of DC (kg) 22 Kelly Down (m) 11.89 Weight of string (kg) 33 Total (m) 601.68										MUD RECORD Mud Type Water ☒ Oil ☐ Other ☐ Time 15:00 Density (kg/m³) 1010 Funnel Viscosity (cP) 30 Fluid Loss (cm) pH Location SHAKER Depth (m) 477 PVT (m) 44 SOLIDS CONTROL Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³) UNITED OILFIELD 12.00 1010 1005 1680 SAFETY Safety Topic MEHL (kg) MACP (kg)										MUD MATERIALS ADDED Product Amount Type FRAC ATTACK 60 S% BARITE CODE 1019 15 S% CAUSTIC SODA BEADS 1 S%										METRES DRILLED From (m) To (m) D-R-C RPM WOB (kN) 524 630 REAM 60 1 REDUCED PUMP SPEED No. Pressure (kPa) Strokes/min Depth (m) 1 1800 0 0 569 CIRCULATION Pump Type Line Size (mm) GPM Pressure (kPa) Hours Run 1 152 110 1800 9.00										HOLE CONDITION Hole Drag Up (kN) Hole Drag Down (kN) Torque at Bottom (Nm) Fill on Bottom (m) BOILER No. Hours Run pH Stack Temp (°C) 165 12.00 10.0 375.00 DEVIATION SURVEYS Time Depth (m) Deviation Direction Type										TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks 08:00 08:15 0:15 7 RIG SERVICE, FUNCTIONED PIPE RAMS C/O 4 SECS, FUNCTIONED HCR C/O 3 SECS 08:15 08:30 0:15 6 PUMP FRAC ATTACK PILL AT 538 METERS 08:30 08:50 0:20 6 TRIPS, PULL 2 STANDS INTO CASING, FLOW CHECK AT 538M 369M 09:00 11:15 2:15 5D CIRCULATE IN CASING TO SEE IF ANNULUS IS HOLDING VOLUME 11:15 11:30 0:15 16C PRESSURE ON FRAC ATTACK PILL, 1300 KPA 11:30 12:15 0:45 5D CIRCULATE IN CASING TO SEE IF FRAC ATTACK PILL SET UP, BLOW 2 INCH BACK TO 12:15 13:30 1:15 6F LAY DOWN DRILL PIPE, FLOW CHECK AT 377M 189M 13:30 14:15 0:45 6A TRIP IN HOLE TO 450M KELLY UP AND WASH TO 500M, FLOW CHECK AT 189M 377M 14:15 15:45 1:30 3A WASH AND REAM/STARTED REAMING AT 500M - 545 M 15:45 16:00 0:15 5 CIRCULATE UP SAMPLE 16:00 16:45 0:45 6 TRIPS, PULL INTO CASING, SHOE 7 STANDS 16:45 17:00 0:15 11SD CLOSE ANNULAR PRESSURE TEST ZONE Remarks: FUNCTIONED CROWN SAVER VISUALLY INSPECTED TONGS AND LINES VISUALLY INSPECTED BRACKES AND LINKAGES BOILER BLOWN TWICE STABBING VALVE IS OPEN TRIP RECORD CALC. 50M3 MEAS. 1.0M3 DIFF. 50M3									
TOUR 3 DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) 1 BIT 200 58 0.22 1 BIT SUB 162 0.91 1 XJO 162 0.28 6 HWDP 133 55.79										DRILLING ASSEMBLY Bit Number 2 Size (mm) 200 MDC Code Manufacturer VAREL Type HE28MRSV Serial No. 245817 Depth Out (m) Depth In (m) Total Drilled (m) Wash Run Today Cumulative Wt Run 0.00 Entry Date 2010/01/24 DULL GRADE No. Component Stands (m) Stands (m) Stands (m) 22 Drill Pipe 532.44 0 Drill Pipe 0.00 Weight of DC (kg) 22 Kelly Down (m) 11.89 Weight of string (kg) 33 Total (m) 601.68										MUD RECORD Mud Type Water ☒ Oil ☐ Other ☐ Time 20:00 Density (kg/m³) 1010 Funnel Viscosity (cP) 31 Fluid Loss (cm) pH Location SHAKER Depth (m) 551 PVT (m) 45 SOLIDS CONTROL Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³) UNITED OILFIELD 4.00 1010 1000 1680 SAFETY Safety Topic MEHL (kg) MACP (kg)										MUD MATERIALS ADDED Product Amount Type FRAC ATTACK 60 S% BARITE CODE 1019 15 S% CAUSTIC SODA BEADS 1 S%										METRES DRILLED From (m) To (m) D-R-C RPM WOB (kN) 524 630 REAM 60 1 REDUCED PUMP SPEED No. Pressure (kPa) Strokes/min Depth (m) 1 800 0 0 552 CIRCULATION Pump Type Line Size (mm) GPM Pressure (kPa) Hours Run 1 152 110 1800 4.00										HOLE CONDITION Hole Drag Up (kN) Hole Drag Down (kN) Torque at Bottom (Nm) Fill on Bottom (m) BOILER No. Hours Run pH Stack Temp (°C) 165 4.00 10.0 375.00 DEVIATION SURVEYS Time Depth (m) Deviation Direction Type										TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks 20:00 23:30 3:30 3A REAM & CLEAN LOSS, CIRCULATION @ 630 m 23:30 24:00 0:30 6 TRIPS, WORK TIGHT HOLE FROM 630m TO 538m, PULL REST OUT OF HOLE									

FRONT PAGE SUMMARY		Tool Sheet Serial Number	Vendor Software Version	Year	Month	Day
		2752436_20100128_1AP	Pason	2010	01	28
Rig No.	Well Name	Surface Location	Prov	Loc Type	Upland Well ID	Neighb. Bushing
438	Pars et al at Cameron M-74	6232 KALAMITZ	MT		300M746010117150	4
License No.	Operator	Contractor	Well Type	Re-Entry	Spud Date	Time
1221	PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC	VERT	☐	2010/01/17	07:30
	Operator's AFE	Contractor's Job No			Rig Release Date	Time
	90M10005	530				
	Signature of Operator Representative	Signature of Contractor's Rig manager				
	JOHN WILLIAMS	TERRY SCHAUFERT				

DAILY CHECKS		OP RM
1) Daily Walk Around Inspection	NW	ITS
2) Detailed Inspection - Weekly (Using Check List)	NW	ITS
3) Rig Safety Meeting (Weekly)	NW	ITS
4) Well Location & Shor Diagram Printed	NW	ITS
5) Flow Line Checked	NW	ITS
6) BOP Drive Performed	NW	ITS
7) Visually Inspected BOP's - Flow Lines & Discharge Lines	NW	ITS
8) Rig Site Health & Safety Meeting (Weekly)	NW	ITS
9) CAUDC Rig Safety Inspection Checklist (weekly/monthly)	NW	ITS
10) Most Inspection before Raising or Lowering	NW	ITS
11) Crown Survey Checked	NW	ITS
12) Motor Oil Checked	NW	ITS

FUEL @ 08:00 HOURS	
Rig	110
Boiler	0
Op Fuel	
WEATHER	
Time	06:50
Temp	-21
Current Conditions	CLEAR
Wind Direction	N
Wind Strength	UP TO 18 KMH
Road Condition	FAIR

DRILL PIPE										
Category	Thread Type	Grade	OD (mm)	ID (mm)	Linear Mass (kg/m)	No. of Joints	Tool Joint OD (mm)			
DC	4.5XH	DC	154	59	122.3200	18	158.00			
HW	4FH	HWDP	133	62	41.6000	16	133.00			
DP	4FH	SS95	133	65	23.3000	205	133.00			
CASING		Make	Grade	OD (mm)	ID (mm)	Linear Mass (kg/m)	No. of Joints	Total Length (m)	KB to CSG Head (m)	KB to CSG Bottom (m)
SURFACE		KG/SIDE	J-65	219	206	35.72	28	373	4	377

MUD PUMPS			
No.	Make	Stroke Length (mm)	
1	EMSCO		
2	EMSCO		
GENERAL EQUIPMENT & SERVICES		Description	Hours
		LOADER	0.00
		CREW TRUCK	0.00

SHAPE SHAKERS									
No.	Top Screen	Middle Screen	Middle Screen	Bottom Screen					
1	Size	Changed	New	Size	Changed	New	Size	Changed	New
1	84	☐	☐	120	☐	☐	115	☐	☐
1	84	☐	☐	120	☐	☐	115	☐	☐
1	84	☐	☐	120	☐	☐	115	☐	☐

TOUR 1

DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	200	1	0.22
1	BIT SUB	162		0.91
5	DC (8.25 IN)	156	58	45.56
1	HEMM SHORT DC	166	64	4.81
1	JARS-HYD	166	66	5.51
8	DC (8.25 IN)	166	58	72.15
1	X/O	163		0.28
6	HWDP(4.5 IN)	133		55.79
24	Drill Pipe	Standards (m)		456.00
0	Drill Pipe	Singles (m)		0.00
Weight of DC (std/m)	22	Kelly Down (m)	11.89	
Weight of string (std/m)	32	Total (m)	653.04	

BITS	
Bit Number	200
Size (mm)	
MDC Code	
Manufacturer	YAREL
Type	HEMMRSV
Serial No	245817
Jobs (mm)	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Run Run Today	
Cumulative Run Run	0.00
Entry Date	2010/01/24
DULL GRADE	
T ₁	Gage (mm)
T ₂	ODC
MDC	Reason Pulled
LOC	Total Run (m/h)
BRG	

MUD RECORD				
Mud Type	Water	Oil	Other	
Time	08:00			
Density (kg/m ³)	1010			
Funnel Viscosity (cP)	30			
Fluid Loss (cm)				
pH				
Location	SHAKER			
Depth (m)	676			
PVT (m)	39			
SOLIDS CONTROL				
Equipment Name	Hours Run	Intake Density (kg/m ³)	Over Flow Density (kg/m ³)	Under Flow Density (kg/m ³)
SAFETY				
Safety Topic	MEHL (std/m)	MACP (kg)		
		3088		

MUD MATERIALS ADDED		
Product	Amount	Type

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (std/m)
527	630	REAM	54	1
REDUCED PUMP SPEED				
No.	Pressure (kg)	Strokes/min	Depth (m)	
1	1250	60	605	
CIRCULATION				
Pump Type	Liner Size (mm)	GPM	Pressure (kg)	Hours Run
1	152	95	2300	8.00
Remarks:				

HOLE CONDITION				
No.	Hours Run	pH	Stack Temp (°C)	
165	8.00	10.0	375.00	
BOILER				
No.	Hours Run	pH	Stack Temp (°C)	
165	8.00	10.0	375.00	
DEVIATION SURVEYS				
Time	Depth (m)	Deviation	Direction	Type

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	01:15	1:25:00	7	TRIP OUT OF HOLE TO MAKE UP NEW BHA
01:15	01:30	0:25:00	7	RIG SERVICE FUNCTIONED PIPE RAMS C/O 5 SECS. BLIND RAMS C/O 4 SECS.
01:30	03:45	2:25:00	8A	TRIP IN HOLE TO 530M TO WASH FRAC ATTACK PUL TO 630M FLOW CHECK AT OM 377M.
03:45	08:00	4:25:00	8A	REAM A CLEAN FROM 530M TO 630M
Remarks: RESIDUAL PRESSURE ON MANIFOLD 1000KPA FUNCTIONED CROWN SAVER BOILER BLOWN ONCE VISUALLY INSPECTED TONGS LINES VISUALLY INSPECTED BRAKES AND LINKAGES STABBING VALVE IS OPEN				

TOUR 2

DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	200	1	0.22
1	BIT SUB	162		0.91
5	DC (8.25 IN)	156	58	45.56
1	HEMM SHORT DC	166	64	4.81
1	JARS-HYD	166	66	5.51
8	DC (8.25 IN)	166	58	72.15
1	X/O	163		0.28
6	HWDP(4.5 IN)	133		55.79
24	Drill Pipe	Standards (m)		456.00
0	Drill Pipe	Singles (m)		0.00
Weight of DC (std/m)	22	Kelly Down (m)	11.89	
Weight of string (std/m)	32	Total (m)	653.04	

BITS	
Bit Number	200
Size (mm)	
MDC Code	
Manufacturer	YAREL
Type	HEMMRSV
Serial No	245817
Jobs (mm)	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Run Run Today	
Cumulative Run Run	0.00
Entry Date	2010/01/24
DULL GRADE	
T ₁	Gage (mm)
T ₂	ODC
MDC	Reason Pulled
LOC	Total Run (m/h)
BRG	

MUD RECORD				
Mud Type	Water	Oil	Other	
Time	08:00			
Density (kg/m ³)	1010			
Funnel Viscosity (cP)	30			
Fluid Loss (cm)				
pH				
Location	SHAKER			
Depth (m)	676			
PVT (m)	39			
SOLIDS CONTROL				
Equipment Name	Hours Run	Intake Density (kg/m ³)	Over Flow Density (kg/m ³)	Under Flow Density (kg/m ³)
SAFETY				
Safety Topic	MEHL (std/m)	MACP (kg)		
		3088		

MUD MATERIALS ADDED		
Product	Amount	Type

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (std/m)
630	702	REAM	50	1
REDUCED PUMP SPEED				
No.	Pressure (kg)	Strokes/min	Depth (m)	
1	1250	60	680	
CIRCULATION				
Pump Type	Liner Size (mm)	GPM	Pressure (kg)	Hours Run
1	152	95	2100	12.00
Remarks:				

HOLE CONDITION				
No.	Hours Run	pH	Stack Temp (°C)	
165	12.00	10.0	375.00	
BOILER				
No.	Hours Run	pH	Stack Temp (°C)	
165	12.00	10.0	375.00	
DEVIATION SURVEYS				
Time	Depth (m)	Deviation	Direction	Type

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
08:00	08:15	0:25:00	7	RIG SERVICE FUNCTION ANNUAL C/O 8 SECONDS
08:15	09:30	1:25:00	7	REAMING FROM 530M TO 720M
09:30	10:30	1:00:00	8	TRIPS LAY OUT SINGLES FROM 720M TO 806M
10:30	12:00	1:50:00	6	TRIPS RACK & STANDS IN DERRICK TRY TO BREAK CIRCULATION
12:00	12:15	0:25:00	5	CONDITION MUD & CIRCULATE
12:15	13:00	0:45:00	6	TRIPS, RUN IN 10 STANDS
13:00	13:15	0:25:00	5D	BREAK CIRCULATION
13:15	13:30	0:25:00	5	CONDITION MUD & CIRCULATE
13:30	16:30	3:00:00	6	TRIPS, LAY OUT 11 SINGLES, RACK REST IN DERRICK CF. 377m
16:30	16:45	0:25:00	7	RIG SERVICE FUNCTION HCR C/O 3 SECONDS
16:45	17:00	0:25:00	21F	SAFETY INSPECTION, ACCUMULATOR CHECK STARTING PRESSURE 16500KPA, CLOSE HYDRIL, OPEN HYDRIL, CLOSE PIPERAMS, REMAINING PRESSURE 16500KPA, RECHARGE #8 REG., PRECHARGE 7800KPA, #2 2500PXL X 2, FUNCTION MOTOR KILLS
Remarks: RESIDUAL PRESSURE ON MANIFOLD 1000 KPA FUNCTION CROWN SAVER BLOW DOWN BOILER 1X VIS INSPECT TONGS LINES SLIPS VISUAL INSPECTION OF FLARE AND ROOIE LINE AND FLARE TANK, STABBING VALVE AND INSIDE BOP SUB TRIP RECORD CALC 2.78M3 MEAS, 10.87M3 DIFF, 8.09M3				

TOUR 3

DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
37	Drill Pipe	Standards (m)		703.00
1	Drill Pipe	Singles (m)		9.50
Weight of DC (std/m)		Kelly Down (m)	0.00	
Weight of string (std/m)		Total (m)	712.50	

BITS	
Bit Number	
Size (mm)	
MDC Code	
Manufacturer	
Type	
Serial No	
Jobs (mm)	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Run Run Today	
Cumulative Run Run	
Entry Date	
DULL GRADE	
T ₁	Gage (mm)
T ₂	ODC
MDC	Reason Pulled
LOC	Total Run (m/h)
BRG	

MUD RECORD				
Mud Type	Water	Oil	Other	
Time				
Density (kg/m ³)				
Funnel Viscosity (cP)				
Fluid Loss (cm)				
pH				
Location				
Depth (m)				
PVT (m)				
SOLIDS CONTROL				
Equipment Name	Hours Run	Intake Density (kg/m ³)	Over Flow Density (kg/m ³)	Under Flow Density (kg/m ³)
SAFETY				
Safety Topic	MEHL (std/m)	MACP (kg)		
		3088		

MUD MATERIALS ADDED		
Product	Amount	Type

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (std/m)
REDUCED PUMP SPEED				
No.	Pressure (kg)	Strokes/min	Depth (m)	
CIRCULATION				
Pump Type	Liner Size (mm)	GPM	Pressure (kg)	Hours Run
1	152	80	1775	4.00
Remarks:				

HOLE CONDITION				
No.	Hours Run	pH	Stack Temp (°C)	
165	4.00	10.0	325.00	
BOILER				
No.	Hours Run	pH	Stack Temp (°C)	
165	4.00	10.0	325.00	
DEVIATION SURVEYS				
Time	Depth (m)	Deviation	Direction	Type

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
20:00	21:00	1:00:00	6A	TRIP IN HOLE TO 712 METERS TO SET FIRST CEMENT PLUG, FLOW CHECK AT SHOE 377M
21:00	22:30	1:50:00	6A	REAM & CLEAN LAST 3 SINGLES TO BOTTOM FOR CEMENT PLUG.
22:30	22:45	0:25:00	21	SAFETY MEETING WITH SAMUEL CEMENTING.
22:45	23:15	0:50:00	12F	CEMENT PLUGS, FIRST PLUG AT 712M
23:15	24:00	0:45:00	6B	TRIP OUT OF HOLE, PULL 18 STANDS TO COME OUT OF FIRST CEMENT PLUG INSIDE OF CASING, FLOW CHECK AT 712M 377M
Remarks: RESIDUAL PRESSURE ON MANIFOLD 900 KPA FUNCTIONED CROWN SAVER ONCE BOILER BLOWN ONCE VISUALLY INSPECTED TONGS LINES VISUALLY INSPECTED BRAKES, LINKAGES STABBING VALVE IS OPEN				

FRONT PAGE SUMMARY				Tour Sheet Serial Number: 20100128, 1A Pason				Year: 2010, Month: 01, Day: 28																					
Rig No.: 438, Well Name: Para #1 at Cameron M-74, Surface Location: 40°53'42.80N 117°28'15.50W, Prov: NY, Loc Type: Unique Well ID, Unique Well ID: 300M746010117150, 4				DAILY CHECKS				OP RM				FUEL @ 08:00 HOURS				DRILL PIPE				MUD PUMPS				GENERAL EQUIPMENT & SERVICES					
Licence No.: 1221, Operator: PARAMOUNT RESOURCES LTD, Contractor: PRECISION DRILLING, DIV OF PDC, Contractor's Job No.: 590, Well Type: VERT, Dr-Entry: ☐ VERT: ☐				Squad Date: 2010/01/17, 07:30, Rig Release Date: Time				Weather: Current Conditions: Wind Direction: Wind Strength: Road Condition:				Category: Thread Type: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Joint OD (mm):				No.: Make: Stroke Length (mm):				Description: Hours:									
Signature of Operator Representative: JOHN WILLIAMS, Signature of Contractor's Rig manager: TERRY SCHAUERT																													

TOUR 1				SIGNATURE OF DRILLER				MIKE KEMICK				START TIME				00:00				END TIME				08:00											
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG											
No. Component OD (mm) ID (mm) Length (m)				Bit Number, Size (mm), BDC Code, Manufacturer, Type, Serial No, Jets (mm), Depth Out (m), Depth In (m), Total Drilled (m), Hrs Run Today, Cumulative Hrs Run, Entry Date				Mud Type, Wear, or, or, or, Time, Density (kg/m³), Funnel Viscosity (cP), Fluid Loss (cm³), pH, Location, Depth (m), PVT (m)				Product, Amount, Type				From (m), To (m), D-R-C, RPM, WOB (kdaN)				Hole Drag Up (kdaN), Hole Drag Down (kdaN), Torque at Bottom (kNm), Fill on Bottom (m)				From, To, Elapsed, Code, Details of Operations in Sequence & Remarks											
Drill Pipe, Stands (m), Drill Pipe, Singles (m), Weight of DC (kdaN), Kelly Down (m), Weight of string (kdaN), Total (m)				Dull Grade, Gauge (mm), ODC, Reason Pulled, Total Run (m/hr)				Solids Control, Equipment Name, Hours Run, Intake Density (kg/m³), Over Flow Density (kg/m³), Under Flow Density (kg/m³)				Safety, Safety Topic, MEH (kdaN), MACP (kg)				Reduced Pump Speed, No., Pressure (kg), Strokes/min, Depth (m)				Boiler, No., Hours Run, pH, Stack Temp (°C)				Circulation, Pump Type, Line Size (mm), GPM, Pressure (kg), Hours Run				Deviation Surveys, Time, Depth (m), Deviation Direction, Type				Remarks:			

TOUR 2				SIGNATURE OF DRILLER				STEVE GERRAT				START TIME				08:00				END TIME				20:00											
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG											
No. Component OD (mm) ID (mm) Length (m)				Bit Number, Size (mm), BDC Code, Manufacturer, Type, Serial No, Jets (mm), Depth Out (m), Depth In (m), Total Drilled (m), Hrs Run Today, Cumulative Hrs Run, Entry Date				Mud Type, Wear, or, or, or, Time, Density (kg/m³), Funnel Viscosity (cP), Fluid Loss (cm³), pH, Location, Depth (m), PVT (m)				Product, Amount, Type				From (m), To (m), D-R-C, RPM, WOB (kdaN)				Hole Drag Up (kdaN), Hole Drag Down (kdaN), Torque at Bottom (kNm), Fill on Bottom (m)				From, To, Elapsed, Code, Details of Operations in Sequence & Remarks											
Drill Pipe, Stands (m), Drill Pipe, Singles (m), Weight of DC (kdaN), Kelly Down (m), Weight of string (kdaN), Total (m)				Dull Grade, Gauge (mm), ODC, Reason Pulled, Total Run (m/hr)				Solids Control, Equipment Name, Hours Run, Intake Density (kg/m³), Over Flow Density (kg/m³), Under Flow Density (kg/m³)				Safety, Safety Topic, MEH (kdaN), MACP (kg)				Reduced Pump Speed, No., Pressure (kg), Strokes/min, Depth (m)				Boiler, No., Hours Run, pH, Stack Temp (°C)				Circulation, Pump Type, Line Size (mm), GPM, Pressure (kg), Hours Run				Deviation Surveys, Time, Depth (m), Deviation Direction, Type				Remarks: FINISH TRIP OUT, FUNCTIONED BLIND RAMS WHILE ON BANK, Q/O 4 SEC, RUN IN TO 715 METERS TO SPOT FIRST CEMENT PLUS FLOW CHECK AT QM 377M			

TOUR 3				SIGNATURE OF DRILLER				MIKE KEMICK				START TIME				20:00				END TIME				24:00											
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG											
No. Component OD (mm) ID (mm) Length (m)				Bit Number, Size (mm), BDC Code, Manufacturer, Type, Serial No, Jets (mm), Depth Out (m), Depth In (m), Total Drilled (m), Hrs Run Today, Cumulative Hrs Run, Entry Date				Mud Type, Wear, or, or, or, Time, Density (kg/m³), Funnel Viscosity (cP), Fluid Loss (cm³), pH, Location, Depth (m), PVT (m)				Product, Amount, Type				From (m), To (m), D-R-C, RPM, WOB (kdaN)				Hole Drag Up (kdaN), Hole Drag Down (kdaN), Torque at Bottom (kNm), Fill on Bottom (m)				From, To, Elapsed, Code, Details of Operations in Sequence & Remarks											
Drill Pipe, Stands (m), Drill Pipe, Singles (m), Weight of DC (kdaN), Kelly Down (m), Weight of string (kdaN), Total (m)				Dull Grade, Gauge (mm), ODC, Reason Pulled, Total Run (m/hr)				Solids Control, Equipment Name, Hours Run, Intake Density (kg/m³), Over Flow Density (kg/m³), Under Flow Density (kg/m³)				Safety, Safety Topic, MEH (kdaN), MACP (kg)				Reduced Pump Speed, No., Pressure (kg), Strokes/min, Depth (m)				Boiler, No., Hours Run, pH, Stack Temp (°C)				Circulation, Pump Type, Line Size (mm), GPM, Pressure (kg), Hours Run				Deviation Surveys, Time, Depth (m), Deviation Direction, Type				Remarks:			

FRONT PAGE SUMMARY										DAILY CHECKS										FUEL @ 08:00 HOURS										DRILL PIPE										MUD PUMPS										GENERAL EQUIPMENT & SERVICES									
Job Sheet Serial Number: 20100130-1A Pason										1) Daily Visual Inspection 2) Detailed Inspection - Weekly (Depth Check Log) 3) HPS Signs Posted & Reinspected 4) New Lignage & Block Diagram Posted 5) Flow Lines Checked 6) ROP Data Performed 7) Visually Inspected BOPs - Hare Lines & Disconnector Lines										Rig Boiler Op Fuel Weather Time Temp Current Conditions Wind Direction Wind Strength Road Condition										Category: Thru Type: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Tool Joint OD (mm): DC 4.53M DC 158 58 122.3200 16 158.00 HW 4FH WDP 133 62 41.6000 16 133.00 DP 4FH SS85 133 85 23.3000 205 133.00										No. 1 Make Stroke Length (mm): 1 EMSCO 2 EMSCO										Description: Hours: LOADER 0.00 CREW TRUCK 0.00									

Name No. Operator										Contractor										Well Type										Drill Pipe										MUD PUMPS										GENERAL EQUIPMENT & SERVICES									
1221 XARAMOUNT RESOURCES LTD.										PRECISION DRILLING, DIV OF PDC										VERT										No. 1 Make Stroke Length (mm):										Description: Hours:																			
Operator's AFE										Contractor's Job No.										Serial Date										No. 2 Make Stroke Length (mm):										Description: Hours:																			
BPM 10095										Signature of Contractor's Rig Manager										Time										No. 3 Make Stroke Length (mm):										Description: Hours:																			
Signature of Operator Representative										Signature of Contractor's Rig Manager										Time										No. 4 Make Stroke Length (mm):										Description: Hours:																			
JOHN WILLIAMS										TERRY SCHAUERT										Time										No. 5 Make Stroke Length (mm):										Description: Hours:																			

TOUR 1										SIGNATURE OF DRILLER										START TIME										END TIME																													
DRILLING ASSEMBLY										MUD RECORD										MUD MATERIALS ADDED										METRES DRILLED										HOLE CONDITION										TIME LOG									
No. Component OD (mm) ID (mm) Length (m)										Mud Type Water Oil Air Other										Product Amount Type										From (m) To (m) D-R-C RPM WOB (kdaN)										Hole Drag Up (kdaN)										From To Elapsed Code									
1 BIT 200 0.31										Time 02:00										SAWDUST 10 SX										681 832 REAM 27 2										Hole Drag Down (kdaN)										00:00 00:15 0:25 7									
1 MOTOR HS 168 8.15										Density (kg/m³) 1010																														Torque at Bottom (Nm)										00:15 04:00 3:75 2C									
1 MP UBHO 165 0.68										Funnel Viscosity (cP) 29																				Fill on Bottom (m)										04:00 04:30 0:30 5D																			
1 FLEX NMDC 168 9.47										Fluid Loss (cm³) 12																														CIRCULATE BOTTOMS UP BEFORE RUNNING TO BOTTOM																			
1 CUTTER BUR 165 0.78										pH 12																														04:30 05:00 0:30 6A																			
1 XJO 165 0.39										Location SHAKER																														TRIP IN HOLE RUN TO BOTTOM TO START DRILLING FLOW CHECK AT 725M BLOW KELLY																			
5 DC (6.25 IN) 158 45.58										Depth (m) 10.3 10.3 10.3 10.3																														05:00 05:30 0:30 6A																			
1 SDC 165 4.51										Depth Out (m) 10.3 10.3 10.3																														TRIP IN HOLE BLOW KELLY																			
1 JARS 165 5.51										Total Drilled (m) 1089																														05:30 08:00 0:30 6A																			
8 DC (6.25 IN) 158 72.15										Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³)																														08:00 08:00 2:00 3A																			
1 OX 158 0.28										UNITED OILFIELD 8.00 1010 1005 1680																														REAM A CLEAN OPEN HOLE																			
6 HWDPA(4.0 IN) 102 55.78										Safety MEHL (kdaN) MACP (kdaN)																																																	
32 Drill Pipe Stands (m) 608.55										SAFETY																																																	
1 Drill Pipe Shingles (m) 9.52																																																											
Weight of DC (kdaN) Kelly Down (m) 11.89																																																											
Weight of string (kdaN) Total (m) 633.77																																																											

TOUR 2										SIGNATURE OF DRILLER										START TIME										END TIME																													
DRILLING ASSEMBLY										MUD RECORD										MUD MATERIALS ADDED										METRES DRILLED										HOLE CONDITION										TIME LOG									
No. Component OD (mm) ID (mm) Length (m)										Mud Type Water Oil Air Other										Product Amount Type										From (m) To (m) D-R-C RPM WOB (kdaN)										Hole Drag Up (kdaN)										From To Elapsed Code									
1 BIT 200 0.31										Time 11:00										MILLZAN 1 SX										832 831 REAM 30 3										Hole Drag Down (kdaN)										08:00 08:15 0:25 7									
1 MOTOR HS 168 8.15										Density (kg/m³) 1030										MTL SHURE SHALE 2 18.83L																				Torque at Bottom (Nm)										08:15 10:15 2:00 3A									
1 MP UBHO 165 0.68										Funnel Viscosity (cP) 34										SANDWICH CODE 1122 10 SX										Fill on Bottom (m)										10:15 10:30 0:15 21																			
1 FLEX NMDC 168 9.47										Fluid Loss (cm³) 12										DC 18.83L CODE 1122 10 SX																				RIG REPAIR, REPLACE MAIN HYDRAULIC PUMP																			
1 CUTTER BUR 165 0.78										pH 12																														11:30 12:15 0:45 3A																			
1 XJO 165 0.39										Location SHAKER																														REAM A CLEAN FROM 902m TO 931m																			
5 DC (6.25 IN) 158 45.58										Depth (m) 10.3 10.3 10.3 10.3																														12:15 13:45 1:30 3A																			
1 SDC 165 4.51										Depth Out (m) 10.3 10.3 10.3																														TRIPS, FC @ 938.894m PULL UP TO 522m																			
1 JARS 165 5.51										Total Drilled (m) 1089																														13:45 15:30 1:45 6																			
8 DC (6.25 IN) 158 72.15										Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³)																														CIRCULATE @ 522m, CLEAN HOLE																			
1 OX 158 0.28										UNITED OILFIELD 8.00 1030 1020 1720																														15:30 16:00 0:30 5																			
6 HWDPA(4.0 IN) 102 55.78										Safety MEHL (kdaN) MACP (kdaN)																														16:00 20:00 4:00 6B																			
32 Drill Pipe Stands (m) 608.55										SAFETY																																																	
1 Drill Pipe Shingles (m) 9.52																																																											
Weight of DC (kdaN) Kelly Down (m) 11.89																																																											
Weight of string (kdaN) Total (m) 633.77																																																											

TOUR 3										SIGNATURE OF DRILLER										START TIME										END TIME																													
DRILLING ASSEMBLY										MUD RECORD										MUD MATERIALS ADDED										METRES DRILLED										HOLE CONDITION										TIME LOG									
No. Component OD (mm) ID (mm) Length (m)										Mud Type Water Oil Air Other										Product Amount Type										From (m) To (m) D-R-C RPM WOB (kdaN)										Hole Drag Up (kdaN)										From To Elapsed Code									
1 BIT 200 0.31										Time 11:00										MILLZAN 1 SX										832 831 REAM 30 3										Hole Drag Down (kdaN)										20:30 20:15 0:15 21									
1 MOTOR HS 168 8.15										Density (kg/m³) 1030										MTL SHURE SHALE 2 18.83L																				Torque at Bottom (Nm)										20:15 22:15 2:00 6B									
1 MP UBHO 165 0.68										Funnel Viscosity (cP) 34										SANDWICH CODE 1122 10 SX										Fill on Bottom (m)										TRIP OUT OF HOLE TO LAY OUT DIRECTIONAL TOOLS FLOW CHECK AT																			
1 FLEX NMDC 168 9.47										Fluid Loss (cm³) 12										DC 18.83L CODE 1122 10 SX																				389M, 188M, 0M, FUNCTIONED BLIND RAMS WHILE ON BANK C/O 3 SECS.																			
1 CUTTER BUR 165 0.78										pH 12																														22:15 23:00 0:45 21																			
1 XJO 165 0.39										Location SHAKER																														SAFETY MEETING WITH DIRECTIONAL HANDS TAKE OUT MWD TOOLS AND RACK MONNEL AND																			
5 DC (6.25 IN) 158 45.58										Depth (m) 10.3 10.3 10.3 10.3																														MOTOR IN DERRICK																			
1 SDC 165 4.51										Depth Out (m) 10.3 10.3 10.3																														TRIP IN HOLE OPEN ENDED TO RUN CEMENT PLUGS FLOW CHECK AT QM 377M																			
1 JARS 165 5.51										Total Drilled (m) 1089																																																	
8 DC (6.25 IN) 158 72.15										Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³)																																																	
1 OX 158 0.28										UNITED OILFIELD 8.00 1030 1020 1720																																																	
6 HWDPA(4.0 IN) 102 55.78										Safety MEHL (kdaN) MACP (kdaN)																																																	
32 Drill Pipe Stands (m) 608.55										SAFETY																																																	
1 Drill Pipe Shingles (m) 9.52																																																											
Weight of DC (kdaN) Kelly Down (m) 11.89																																																											
Weight of string (kdaN) Total (m) 633.77																																																											

FRONT PAGE SUMMARY				DAILY CHECKS				OP RM				FUEL @ 00:00 HOURS				DRILL PIPE				MUD PUMPS				GENERAL EQUIPMENT & SERVICES			
Your Serial Number: 0152436_20100131_1A Pason				Year: 2010 Month: 01 Day: 31				1) Daily Visual Inspection - Weekly Safety Check List				195				Category: 4.5XH Grade: 150 D (mm): 50 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Tool Joint OD (mm): 158.00				1) EMSCO Make: Stroke Length (mm):				Description: Hours:			
Rig No. Well Name Surface Location Prov Loc Type Unique Well ID Kelly Running				Signature of Operator Representative: JOHN WILLIAMS				Signature of Contractor's Rig Manager: TERRY SCHAUFERT				Current Conditions: OVERCAST				Category: 4.5XH Grade: 150 D (mm): 50 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Tool Joint OD (mm): 158.00				1) EMSCO Make: Stroke Length (mm):				Description: Hours:			
License No. Operator: 1221 PARAMOUNT RESOURCES LTD				Contractor: PRECISION DRILLING, DIV OF PDC				Well Type: No Entry				Weather: Time: 06:00				Category: 4.5XH Grade: 150 D (mm): 50 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Tool Joint OD (mm): 158.00				1) EMSCO Make: Stroke Length (mm):				Description: Hours:			
Operator's AFE: 609010005				Contractor's Job No: 530				Serial Date: 2010/01/17				Time: 07:30				Category: 4.5XH Grade: 150 D (mm): 50 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Tool Joint OD (mm): 158.00				1) EMSCO Make: Stroke Length (mm):				Description: Hours:			
Signature of Operator Representative: JOHN WILLIAMS				Signature of Contractor's Rig Manager: TERRY SCHAUFERT				Serial Date: 2010/01/17				Time: 07:30				Category: 4.5XH Grade: 150 D (mm): 50 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Tool Joint OD (mm): 158.00				1) EMSCO Make: Stroke Length (mm):				Description: Hours:			
Signature of Contractor's Rig Manager: TERRY SCHAUFERT				Signature of Contractor's Rig Manager: TERRY SCHAUFERT				Serial Date: 2010/01/17				Time: 07:30				Category: 4.5XH Grade: 150 D (mm): 50 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Tool Joint OD (mm): 158.00				1) EMSCO Make: Stroke Length (mm):				Description: Hours:			

TOUR 1				SIGNATURE OF DRILLER				MIKE KEMICK				START TIME				END TIME											
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG			
No. Component: OD (mm) ID (mm) Length (m)				Bit Number: 2 Size (mm): 200				Mud Type: Water L J Other: 1				Product: Amount: Type:				From (m) To (m) D-R-C RPM WOB (kN)				Hole Drag Up (kN)				From To Elapsed Code			
1 BIT 200 0.31				MDC Code: 0				Density (kg/m ³): 1020								1 405 481 REAM 27 2				Hole Drag Down (kN)				08:00 08:15 0.25 7			
1 MOTOR HS 168 8.15				Manufacturer: VAREL				Funnel Viscosity (cP): 30								1 3100 49 478				Torque at Bottom (Nm)				08:15 08:30 1.25 5			
1 MP UBHO 165 0.68				Type: VTD513HX				Fluid Loss (cm): 11								1 152 116 5800 0.00				Fill on Bottom (m)				08:30 12:00 2.50 3A			
1 FLEX NMDC 168 9.47				Serial No: 4001140				pH: 11								1 152 116 5800 0.00								12:00 12:15 0.25 21D			
1 CUTTER SUB 165 0.79				Jct (mm) 10.3 10.3 10.3 10.3				Location: SHAKER								1 152 116 5800 0.00								12:15 13:00 0.75 12C			
1 X/O 165 0.39				Depth (m) 10.3 10.3 10.3 10.3				Depth (m) 548								1 152 116 5800 0.00								13:00 14:00 1.00 1B			
5 DC (4.75 IN) 150 45.58				Total Drilled (m) 1089				PVT (m ³) 28								1 152 116 5800 0.00								14:00 15:00 1.00 6B			
1 SHORT DC 166 4.61				Cummulative Hrs Run 0.00				SAFETY								1 152 116 5800 0.00								15:00 15:15 0.25 21D			
1 JARS-MECH 166 5.51				Entry Date: 2010/01/31				SAFETY								1 152 116 5800 0.00								15:15 17:00 1.75 6A			
5 DC (4.75 IN) 150 72.15				DULL GRADE				SAFETY								1 152 116 5800 0.00								17:00 17:15 0.25 7			
1 X/O 150 0.26				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								17:15 18:00 0.75 6A			
5 HWDP (4.0 IN) 102 55.78				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								18:00 18:15 1.25 6F			
9 Drill Pipe 200 170.85				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								18:15 20:00 0.75 6A			
0 Drill Pipe 200 0.00				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								20:00 24:00 4.00 3A			
Weight of DC (kN) Kelly Down (m) 0.00				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
Weight of string (kN) 374.56				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			

TOUR 2				SIGNATURE OF DRILLER				STEVE GENERT				START TIME				END TIME											
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG			
No. Component: OD (mm) ID (mm) Length (m)				Bit Number: 2 Size (mm): 200				Mud Type: Water L J Other: 1				Product: Amount: Type:				From (m) To (m) D-R-C RPM WOB (kN)				Hole Drag Up (kN)				From To Elapsed Code			
1 BIT 200 0.31				MDC Code: 0				Density (kg/m ³): 1020								1 405 481 REAM 27 2				Hole Drag Down (kN)				08:00 08:15 0.25 7			
1 MOTOR HS 168 8.15				Manufacturer: VAREL				Funnel Viscosity (cP): 30								1 3100 49 478				Torque at Bottom (Nm)				08:15 08:30 1.25 5			
1 MP UBHO 165 0.68				Type: VTD513HX				Fluid Loss (cm): 11								1 152 116 5800 0.00				Fill on Bottom (m)				08:30 12:00 2.50 3A			
1 FLEX NMDC 168 9.47				Serial No: 4001140				pH: 11								1 152 116 5800 0.00								12:00 12:15 0.25 21D			
1 CUTTER SUB 165 0.79				Jct (mm) 10.3 10.3 10.3 10.3				Location: SHAKER								1 152 116 5800 0.00								12:15 13:00 0.75 12C			
1 X/O 165 0.39				Depth (m) 10.3 10.3 10.3 10.3				Depth (m) 548								1 152 116 5800 0.00								13:00 14:00 1.00 1B			
5 DC (4.75 IN) 150 45.58				Total Drilled (m) 1089				PVT (m ³) 28								1 152 116 5800 0.00								14:00 15:00 1.00 6B			
1 SHORT DC 166 4.61				Cummulative Hrs Run 0.00				SAFETY								1 152 116 5800 0.00								15:00 15:15 0.25 21D			
1 JARS-MECH 166 5.51				Entry Date: 2010/01/31				SAFETY								1 152 116 5800 0.00								15:15 17:00 1.75 6A			
5 DC (4.75 IN) 150 72.15				DULL GRADE				SAFETY								1 152 116 5800 0.00								17:00 17:15 0.25 7			
1 X/O 150 0.26				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								17:15 18:00 0.75 6A			
5 HWDP (4.0 IN) 102 55.78				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								18:00 18:15 1.25 6F			
9 Drill Pipe 200 170.85				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								18:15 20:00 0.75 6A			
0 Drill Pipe 200 0.00				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								20:00 24:00 4.00 3A			
Weight of DC (kN) Kelly Down (m) 0.00				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
Weight of string (kN) 374.56				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			

TOUR 3				SIGNATURE OF DRILLER				MIKE KEMICK				START TIME				END TIME											
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG			
No. Component: OD (mm) ID (mm) Length (m)				Bit Number: 2 Size (mm): 200				Mud Type: Water L J Other: 1				Product: Amount: Type:				From (m) To (m) D-R-C RPM WOB (kN)				Hole Drag Up (kN)				From To Elapsed Code			
1 BIT 200 0.31				MDC Code: 0				Density (kg/m ³): 1020								1 405 481 REAM 27 2				Hole Drag Down (kN)				20:00 24:00 4.00 3A			
1 MOTOR HS 168 8.15				Manufacturer: VAREL				Funnel Viscosity (cP): 30								1 3100 49 478				Torque at Bottom (Nm)				24:00 24:00 0.00 3A			
1 MP UBHO 165 0.68				Type: VTD513HX				Fluid Loss (cm): 11								1 152 116 5800 0.00				Fill on Bottom (m)				24:00 24:00 0.00 3A			
1 FLEX NMDC 168 9.47				Serial No: 4001140				pH: 11								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
1 CUTTER SUB 165 0.79				Jct (mm) 10.3 10.3 10.3 10.3				Location: SHAKER								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
1 X/O 165 0.39				Depth (m) 10.3 10.3 10.3 10.3				Depth (m) 548								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
5 DC (4.75 IN) 150 45.58				Total Drilled (m) 1089				PVT (m ³) 28								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
1 SHORT DC 166 4.61				Cummulative Hrs Run 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
1 JARS-MECH 166 5.51				Entry Date: 2010/01/31				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
5 DC (4.75 IN) 150 72.15				DULL GRADE				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
1 X/O 150 0.26				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
5 HWDP (4.0 IN) 102 55.78				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
14 Drill Pipe 200 266.08				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
0 Drill Pipe 200 0.00				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
Weight of DC (kN) Kelly Down (m) 11.89				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			
Weight of string (kN) 481.78				Dull Grade: 0.00				SAFETY								1 152 116 5800 0.00								24:00 24:00 0.00 3A			

FRONT PAGE SUMMARY										DAILY CHECKS										FUEL @ 08:00 HOURS										DRILL PIPE										MUD PUMPS										GENERAL EQUIPMENT & SERVICES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Your Sheet Serial Number: 052436, 20100202, 1A Vendor Software Version: Pason Year: 2010, Month: 02, Day: 02 Rig No.: 438, Well Name: Para et al Cameron M-74, Surface Location: 60 55 S 46 00 W 117 52 N, Prov: NT, Loc Type: Unique Well ID, Unique Well ID: 300M746010117150, 4 License No.: 1221, Operator: PARAMOUNT RESOURCES LTD, Contractor: PRECISION DRILLING, DIV OF POC, Operator's A/E: 530, Contractor's Job No.: Signature of Operator Representative: JOHN WILLIAMS, Signature of Contractor's Rig Manager: TERRY SCHAUFERT										DAILY CHECKS 1) Daily Site Around Inspection: JW ITS 2) Equipment Inspection - Weather Rating Check List: JW ITS 3) H2S Sites Tested & Registered: JW ITS 4) Well License & Safety Diagram Posted: JW ITS 5) PPE: JW ITS 6) BOP Tests Performed: JW ITS 7) Visually Inspected BOPs - Flare Lines & Bypasses Lines: JW ITS 8) Rig Site Health & Safety Meeting (conclusion/mins): 9) CAUTION: Rig Safety Inspection Checklist (conclusion/mins): 3) Mass Inspection before Raising or Lowering: 4) Crown Saver Checked: 5) Motor Kill Checked:										FUEL @ 08:00 HOURS Fuel: 143, Oil: 0, Gas: 0, Total: 143 Weather: Overcast, Wind Direction: N, Wind Strength: UP TO 10 KMH, Road Condition: FAIR										DRILL PIPE <table border="1"> <thead> <tr> <th>Category</th> <th>Thread Type</th> <th>Grade</th> <th>OD (mm)</th> <th>ID (mm)</th> <th>Linear Mass (kg/m)</th> <th>No. of Joints</th> <th>Total Length (m)</th> <th>Tool Joint OD (mm)</th> </tr> </thead> <tbody> <tr> <td>DC</td> <td>4.5XH</td> <td>DC</td> <td>158</td> <td>59</td> <td>122.3000</td> <td>16</td> <td>158.00</td> <td></td> </tr> <tr> <td>HWDP</td> <td>4FH</td> <td>HWDP</td> <td>133</td> <td>62</td> <td>41.3000</td> <td>16</td> <td>133.00</td> <td></td> </tr> <tr> <td>OP</td> <td>4FH</td> <td>SS45</td> <td>133</td> <td>65</td> <td>23.3000</td> <td>205</td> <td>133.00</td> <td></td> </tr> </tbody> </table>										Category	Thread Type	Grade	OD (mm)	ID (mm)	Linear Mass (kg/m)	No. of Joints	Total Length (m)	Tool Joint OD (mm)	DC	4.5XH	DC	158	59	122.3000	16	158.00		HWDP	4FH	HWDP	133	62	41.3000	16	133.00		OP	4FH	SS45	133	65	23.3000	205	133.00		MUD PUMPS <table border="1"> <thead> <tr> <th>No.</th> <th>Make</th> <th>Stroke Length (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>EMSCO</td> <td></td> </tr> <tr> <td>2</td> <td>EMSCO</td> <td></td> </tr> </tbody> </table>										No.	Make	Stroke Length (mm)	1	EMSCO		2	EMSCO		GENERAL EQUIPMENT & SERVICES <table border="1"> <thead> <tr> <th>Description</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>LOADER</td> <td>0.00</td> </tr> <tr> <td>CREW TRUCK</td> <td>0.00</td> </tr> </tbody> </table>										Description	Hours	LOADER	0.00	CREW TRUCK	0.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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FRONT PAGE SUMMARY		Your Sheet Serial Number: DYS2436_201002_1A		Vendor Software Version: Pason		Year: 2010		Month: 02		Day: 02	
Rig No. 436		Well Name: Para et al Cameron M-74		Surface Location: 60 25 52.88W 17 28 16.60E		Prev Loc Type: WT		Unique Well ID: 300M746010117159		Kelly Bushing: 4	
Licence No. 1221		Operator: PARAMOUNT RESOURCES LTD		Contractor: PRECISION DRILLING, DIV OF PDG		Well Type: OPERATOR'S AFE		Re-Entry: YES		VERIFIED: YES	
Signature of Operator Representative: JOHN WILLIAMS		Signature of Contractor's Rig Manager: TERRY SCHAUFERT		Rig Release Date: 2010/02/17		Rig Release Time: 07:30		Rig Release Date: 2010/02/17		Rig Release Time: 07:30	
DAILY CHECKS		OP RM		FUEL > 08:00 HOURS		DRILL PIPE		MUD PUMPS		GENERAL EQUIPMENT & SERVICES	
1. Daily Risk Assessment Inspection		2. Balanced Inspection - Weekly (Shine Check List)		3. HES Signs Posted if Required		4. Well Licence & Stock Diagram Posted		5. Core Line Staked		6. BOP Daily Performed	
7. Visually Inspected Riggs - Horn Lines & Unsealer Lines		8. Rig Site Health & Safety Meeting (weekly/monthly)		9. CAHSC Rig Safety Inspection Checklist (weekly/monthly)		10. Mast Inspection before Raising or Lowering		11. Crown Sheet Checked		12. Motor Oil Checked	
WEATHER		CASING		SHAPE SHAKERS		DRILL PIPE		MUD PUMPS		GENERAL EQUIPMENT & SERVICES	
Category: Mud		Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Length (m): X8 to CSG Head (m): X8 to CSG Bottom (m)		Category: Mud		Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Length (m): X8 to CSG Head (m): X8 to CSG Bottom (m)		Category: Mud		Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Length (m): X8 to CSG Head (m): X8 to CSG Bottom (m)	
No. Size Changed		New Size Changed		New Size Changed		New Size Changed		New Size Changed		New Size Changed	

TOUR 1		SIGNATURE OF DRILLER		STEVE GEMICK		START TIME		END TIME	
DRILLING ASSEMBLY		BITS		MUD RECORD		MUD MATERIALS ADDED		METRES DRILLED	
No. Component OD (mm) ID (mm) Length (m)		BIT Number: Size (mm): MDC Code: Manufacturer: Type: Serial No: Jct (mm): Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:		Mud Type: Water: Oil: Other: Density (kg/m³): Funnel Viscosity (cP): Fluid Loss (cm³): pH: Location: Depth (m): PVT (m): SOLIDS CONTROL: Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): SAFETY: Safety Topic: MEHL (kg/m³) MDCP (kg/m³)		Product: Amount: Type:		From (m): To (m): D-R-C: RPM: WOB (kdaN): REDUCED PUMP SPEED: No. Pressure (kgp): Strokes/min: Depth (m): CIRCULATION: Pump Type: Line Size (mm): GPM: Pressure (kgp): Hours Run:	
Drill Pipe: Standards (m): Stringline (m): Weight of DC (kg): Kelly Down (m): Total (m):		DULL GRADE: T ₁ : Gauge (mm): T ₂ : GDC: MDC: Reason Pulled: LOC: Total Run (m/h): BRG:						HOLE CONDITION: Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m): BOILER: No. Hours Run: pH: Stack Temp (°C): DEVIATION SURVEYS: Time: Depth (m): Deviation: Direction: Type: TIME LOG: From: To: Elapsed: Code: Details of Operations in Sequence & Remarks: Remarks: TRIP RECORD CALC: 76MS MEAS: 1.41MS DIFF: 63MS	

TOUR 2		SIGNATURE OF DRILLER		STEVE GEMICK		START TIME		END TIME	
DRILLING ASSEMBLY		BITS		MUD RECORD		MUD MATERIALS ADDED		METRES DRILLED	
No. Component OD (mm) ID (mm) Length (m)		BIT Number: Size (mm): MDC Code: Manufacturer: Type: Serial No: Jct (mm): Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:		Mud Type: Water: Oil: Other: Density (kg/m³): Funnel Viscosity (cP): Fluid Loss (cm³): pH: Location: Depth (m): PVT (m): SOLIDS CONTROL: Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): SAFETY: Safety Topic: MEHL (kg/m³) MDCP (kg/m³)		Product: Amount: Type:		From (m): To (m): D-R-C: RPM: WOB (kdaN): REDUCED PUMP SPEED: No. Pressure (kgp): Strokes/min: Depth (m): CIRCULATION: Pump Type: Line Size (mm): GPM: Pressure (kgp): Hours Run:	
Drill Pipe: Standards (m): Stringline (m): Weight of DC (kg): Kelly Down (m): Total (m):		DULL GRADE: T ₁ : Gauge (mm): T ₂ : GDC: MDC: Reason Pulled: LOC: Total Run (m/h): BRG:						HOLE CONDITION: Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m): BOILER: No. Hours Run: pH: Stack Temp (°C): DEVIATION SURVEYS: Time: Depth (m): Deviation: Direction: Type: TIME LOG: From: To: Elapsed: Code: Details of Operations in Sequence & Remarks: Remarks:	

TOUR 3		SIGNATURE OF DRILLER		STEVE GEMICK		START TIME		END TIME	
DRILLING ASSEMBLY		BITS		MUD RECORD		MUD MATERIALS ADDED		METRES DRILLED	
No. Component OD (mm) ID (mm) Length (m)		BIT Number: Size (mm): MDC Code: Manufacturer: Type: Serial No: Jct (mm): Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:		Mud Type: Water: Oil: Other: Density (kg/m³): Funnel Viscosity (cP): Fluid Loss (cm³): pH: Location: Depth (m): PVT (m): SOLIDS CONTROL: Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): SAFETY: Safety Topic: MEHL (kg/m³) MDCP (kg/m³)		Product: Amount: Type:		From (m): To (m): D-R-C: RPM: WOB (kdaN): REDUCED PUMP SPEED: No. Pressure (kgp): Strokes/min: Depth (m): CIRCULATION: Pump Type: Line Size (mm): GPM: Pressure (kgp): Hours Run:	
Drill Pipe: Standards (m): Stringline (m): Weight of DC (kg): Kelly Down (m): Total (m):		DULL GRADE: T ₁ : Gauge (mm): T ₂ : GDC: MDC: Reason Pulled: LOC: Total Run (m/h): BRG:						HOLE CONDITION: Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m): BOILER: No. Hours Run: pH: Stack Temp (°C): DEVIATION SURVEYS: Time: Depth (m): Deviation: Direction: Type: TIME LOG: From: To: Elapsed: Code: Details of Operations in Sequence & Remarks: Remarks:	

FRONT PAGE SUMMARY				DAILY CHECKS				OP RM				FUEL @ 08:00 HOURS				DRILL PIPE				MUD PUMPS				GENERAL EQUIPMENT & SERVICES							
Hour Sheet Serial Number: 2152436_20100203_15P				Weather Software Version: 2010 02 03				1 Daily Risk Assessment Inspection				153				Category: Thread Type: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Test Joint OD (mm):				1. EISCO Make: Stroke Length (mm):				Description: Hours:							
Rig No.: 438 Well Name: Para et al Cameron M-74				Surface Location: 60 33 18.00N 117 28 14.00W				Prev Loc Type: Unique Well ID: 300M746010117150				4				2 Detailed Inspection - Weekly String Check Log				0				2. EISCO Make: Stroke Length (mm):				LOADER: 0.00			
Licenses No.: 1221 Operator: PARAMOUNT RESOURCES LTD				Contractor: PRECISION DRILLING, DIV OF PDC				Well Type: Re-Entry				0				3 H2S Safe Period & Remedial				0				3. EISCO Make: Stroke Length (mm):				CREW TRUCK: 0.00			
Operator's AFE: 530				Contractor's Job No: 530				VERT				0				4 Well Licence & Stock Diagram Profile				0				4. EISCO Make: Stroke Length (mm):							
Signature of Operator Representative: JOHN WILLIAMS				Signature of Contractor's Rig Manager: TERRY SCHAUFERT				Spot Date: 2010/01/17				07:30				5 10m Line Staked				0				5. EISCO Make: Stroke Length (mm):							
								Release Date: 2010/01/17				07:30				6 BOP Drills Performed				0				6. EISCO Make: Stroke Length (mm):							
								Time: 09:00				-30				7 Visually Inspected BOP's - Flow Lines & Degasser Lines				0				7. EISCO Make: Stroke Length (mm):							
								Current Conditions: OVERCAST				-30				8 CAUDC Rig Safety Inspection Checklist (see daily/monthly)				0				8. EISCO Make: Stroke Length (mm):							
								Wind Direction: N				-30				9 Most Inspection before Raising or Lowering				0				9. EISCO Make: Stroke Length (mm):							
								Wind Strength: UP TO 10 KMH				-30				10 Crown Saver Checked				0				10. EISCO Make: Stroke Length (mm):							
								Road Condition: FAIR				-30				11 Motor Kils Checked				0				11. EISCO Make: Stroke Length (mm):							

TOUR 1				SIGNATURE OF DRILLER				MIKE KEMICK				START TIME				END TIME															
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG							
No. Component OD (mm) ID (mm) Length (m)				Bit Number 2 Size (mm) 200				Mud Type Water 0 0 0 0 0 0				Product Amount Type				From (m) To (m) D-R-C RPM WOB (kN)				Hole Drag Up (kN) 1				From To Elapsed Code							
1 BIT 200 1 0.31				MDC Code 200				Time 05:00								402 467 REAM 32 2				Hole Drag Down (kN) 1				00:00 00:15 0.25 21							
1 165MM MOTOR 165 65 8.15				Manufacturer VAREL				Density (kg/m³) 1005												Torque at Bottom (Nm) 1				00:15 00:45 0.50 20							
1 MP UBHO 165 65 0.68				Type VTD613HX				Funnel Viscosity (cP) 30												Fill on Bottom (m) 1				00:45 02:15 1.50 6							
1 FLEXNMDCC 168 83 9.47				Serial No. 4001140				Fluid Loss (cm) 10																02:15 03:30 1.25 25							
1 CUTTER SUB 165 83 0.79				Jaws (mm) 10.3 10.3 10.3 10.3				Location SHAKE																03:30 06:00 2.60 3A							
1 XJO SUB 165 74 0.36				Depth (m) 10.3 10.3 10.3				Depth (m) 433																06:00 08:00 2.00 2							
5 DC (6.25 IN) 156 58 45.58				PVT (m) 54				SOLIDS CONTROL																							
1 SHORAT DC 168 64 4.61				Total Drilled (m) 472				Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³)																							
1 JARS-HYD 166 60 5.51				Total Drilled (m) 472				UNITED CENTERPUG 8.00 1005 1005 1680																							
5 DC (6.25 IN) 156 58 72.15				New Run Today 2.00				SAFETY																							
1 XJO 156 58 0.28				Cumulative Hrs Run 2.00				Safety Topic: MEHL (kN) MACP (kg)																							
6 HWDP 102 55 7.00				Entry Date 2010/02/03																											
13 Drill Pipe Stands (m) 247.02				DULL GRADE																											
1 Drill Pipe Single (m) 9.52				Gage (mm) 00C																											
Weight of OC (kN) 22 Kelly Down (m) 11.89				MDC Reason Pulled 00C																											
Weight of string (kN) 30 Total (m) 472.24				LDC Reason Pulled 00C																											
				BNG Total Run (m/hr) 2.50																											

TOUR 2				SIGNATURE OF DRILLER				STEVE GENERT				START TIME				END TIME															
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG							
No. Component OD (mm) ID (mm) Length (m)				Bit Number 2 Size (mm) 200				Mud Type Water 0 0 0 0 0 0				Product Amount Type				From (m) To (m) D-R-C RPM WOB (kN)				Hole Drag Up (kN) 1				From To Elapsed Code							
1 BIT 200 1 0.31				MDC Code 200				Time 08:30 14:00								472 586 DRILL 30 2				Hole Drag Down (kN) 1				08:00 08:15 0.25 21A							
1 165MM MOTOR 165 65 8.15				Manufacturer VAREL				Density (kg/m³) 1010												Torque at Bottom (Nm) 1				08:15 08:30 0.25 7							
1 MP UBHO 165 65 0.68				Type VTD613HX				Funnel Viscosity (cP) 31												Fill on Bottom (m) 1				08:30 15:30 7.00 2							
1 FLEXNMDCC 168 83 9.47				Serial No. 4001140				Fluid Loss (cm) 10																15:30 18:00 0.50 20A							
1 CUTTER SUB 165 83 0.79				Jaws (mm) 10.3 10.3 10.3 10.3				Location SHAKE SHAKE																18:00 18:15 0.25 21A							
1 XJO SUB 165 74 0.36				Depth (m) 10.3 10.3 10.3				Depth (m) 474																18:15 18:30 0.25 7							
5 DC (6.25 IN) 156 58 45.58				PVT (m) 54				SOLIDS CONTROL																18:30 18:30 2.60 6							
1 SHORAT DC 168 64 4.61				Total Drilled (m) 497				Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³)																18:30 19:30 1.00 20							
1 JARS-HYD 166 60 5.51				Total Drilled (m) 497				UNITED OILFIELD 12.00 1010 1000 1680																19:30 20:00 0.50 6							
5 DC (6.25 IN) 156 58 72.15				New Run Today 7.00				SAFETY																							
1 XJO 156 58 0.28				Cumulative Hrs Run 9.00				Safety Topic: MEHL (kN) MACP (kg)																							
6 HWDP 102 55 7.78				Entry Date 2010/02/03																											
19 Drill Pipe Stands (m) 360.94				DULL GRADE																											
1 Drill Pipe Single (m) 9.51				Gage (mm) 00C																											
Weight of OC (kN) 22 Kelly Down (m) 11.89				MDC Reason Pulled 00C																											
Weight of string (kN) 30 Total (m) 566.15				LDC Reason Pulled 00C																											
				BNG Total Run (m/hr) 12.11																											

TOUR 3				SIGNATURE OF DRILLER				HAROLD RABY				START TIME				END TIME															
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG							
No. Component OD (mm) ID (mm) Length (m)				Bit Number 2 Size (mm) 200				Mud Type Water 0 0 0 0 0 0				Product Amount Type				From (m) To (m) D-R-C RPM WOB (kN)				Hole Drag Up (kN) 1				From To Elapsed Code							
1 BIT 200 1 0.23				MDC Code 4 4 7 1 X				Time 08:30 14:00								456 578 REAM 60 3				Hole Drag Down (kN) 1				20:00 22:15 2.25 6							
1 BIT SUB 161 1 0.81				Manufacturer VAREL				Density (kg/m³) 1027												Torque at Bottom (Nm) 1				22:15 24:00 1.75 3							
1 TELEDRIFT 154 71 2.47				Type HE10MSV				Funnel Viscosity (cP) 6												Fill on Bottom (m) 1				REAMING FROM 456M TO 576M							
5 DC (6.25 IN) 156 58 45.58				Serial No. 250558				Fluid Loss (cm) 10																							
1 SHORAT DC 168 64 4.61				Jaws (mm) 14.3 14.3 14.3				Location																							
1 JARS-HYD 166 60 5.51				Depth (m) 14.3 14.3 14.3				Depth (m) 578																							
5 DC (6.25 IN) 156 58 72.15				PVT (m) 54				SOLIDS CONTROL																							
1 XJO 156 58 0.28				Total Drilled (m) 578				Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³)																							
6 HWDP 102 55 7.78				Total Drilled (m) 578				UNITED OILFIELD 4.00 1010 1000 1680																							
19 Drill Pipe Stands (m) 360.94				DULL GRADE																											
1 Drill Pipe Single (m) 9.51				Gage (mm) 00C																											
Weight of OC (kN) 22 Kelly Down (m) 11.89				MDC Reason Pulled 00C																											
Weight of string (kN) 30 Total (m) 569.97				LDC Reason Pulled 00C																											
				BNG Total Run (m/hr) 5.69																											

FRONT PAGE SUMMARY										DAILY CHECKS										OP RM										FUEL @ 08:00 HOURS										DRILL PIPE										MUD PUMPS										GENERAL EQUIPMENT & SERVICES									
Your Sheet Serial Number: 2152436_20100203_1B Vendor Software Version: Pason Year: 2010 Month: 02 Day: 03										DAILY CHECKS 1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Lifting Check List) 3) SDS Sheets Posted & Read 4) Well Logbook & Stack Diagram Posted 5) Flow Lines Checked 6) BOP Orals Performed 7) Visually Inspected BOPs - Flow Lines & Discharge Lines										OP RM 1) Rig Site Health & Safety Meeting (one/crew/month) 2) CAUSC Rig Safety Inspection Checklist (one/Mg/month) 3) Mast Inspection before Raising or Lowering 4) Crown Slew Checked 5) Mast Vibs Checked										FUEL @ 08:00 HOURS Fuel Type: _____ Fuel Grade: _____ Fuel Quantity: _____ WEATHER Time: _____ Temp: _____ Current Conditions: _____ Wind Direction: _____ Wind Strength: _____ Road Condition: _____										DRILL PIPE Category: _____ Thread Type: _____ Grade: _____ OD (mm): _____ ID (mm): _____ Liner Mass (kg/m): _____ No. of Joints: _____ Tool Joint OD (mm): _____										MUD PUMPS No.: _____ Make: _____ Stroke Length (mm): _____										GENERAL EQUIPMENT & SERVICES Description: _____ Hours: _____									
Rig No.: 438 Well Name: _____ Surface Location: _____ Prov: _____ Lease Type: _____ Unique Well ID: _____ Annly Bashing: _____ 438 Para et al Cameron M-746 LALOW/1172X NJT 300M746010117150 4										WEATHER Time: _____ Temp: _____ Current Conditions: _____ Wind Direction: _____ Wind Strength: _____ Road Condition: _____										CASING Category: _____ No.: _____ Grade: _____ OD (mm): _____ ID (mm): _____ Liner Mass (kg/m): _____ No. of Joints: _____ Total Length (m): _____ KB to CSG Head (m): _____ KB to CSG Bottom (m): _____										SHALE SHAKERS No.: _____ Top Screen: _____ Middle Screen: _____ Bottom Screen: _____																																							
License No. 1221 Operator: PARAMOUNT RESOURCES LTD. Supervisor: AFE Signature of Operator Representative: JOHN WILLIAMS Signature of Contractor's Rig Manager: TERRY SCHAUFERT										Contractor Name: PRECISION DRILLING, DIV OF PDG Contractor's Job No: _____ SPO: _____ Signature of Contractor's Rig Manager: TERRY SCHAUFERT										Well Type Re-Entry: _____ Spud Date: _____ Time: _____ 2010/01/17 07:30 Rig Release Date: _____ Time: _____										START TIME 08:00 END TIME 08:00																																							

TOUR 1										TOUR 2										TOUR 3																																																	
DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) Drill Pipe _____ Stands (m) _____ Drill Pipe _____ Stands (m) _____ Weight of DC (kg) _____ Kelly Down (m) _____ Weight of string (kg) _____ Total (m) _____										BITS Bit Number: _____ Size (mm): _____ MDC Code: _____ Manufacturer: _____ Type: _____ Serial No: _____ Jaws (mm): _____ Depth Out (m): _____ Depth In (m): _____ Total Drilled (m): _____ Hrs Run Today: _____ Cumulative Hrs Run: _____ Entry Date: _____										MUD RECORD Mud Type: _____ Water: _____ Oil: _____ Other: _____ Density (kg/m³): _____ Funnel Viscosity (cP): _____ Fluid Loss (cm): _____ pH: _____ Location: _____ Depth (m): _____ PVT (m³): _____										MUD MATERIALS ADDED Product: _____ Amount: _____ Type: _____										METRES DRILLED From (m): _____ To (m): _____ D-R-C: _____ RPM: _____ WOB (kN): _____										HOLE CONDITION Hole Drag Up (kN): _____ Hole Drag Down (kN): _____ Torque at Bottom (Nm): _____ Fill on Bottom (m): _____										TIME LOG From: _____ To: _____ Elapsed: _____ Code: _____ Details of Operations in Sequence & Remarks: _____									
REDUCED PUMP SPEED No. Pressure (kg) Strokes/min Depth (m) _____ _____ _____										BOILER No. Hours Run pH Stack Temp (°C) _____ _____ _____										DEVIATION SURVEYS Time Depth (m) Deviation Direction Type 13:00 641.64 4.6 223 DIRECTIONAL 13:45 651.13 4.6 223 DIRECTIONAL 14:30 660.64 4.6 223 DIRECTIONAL										SAFETY Safety Topic: _____ MEHL (kg) MACP (kg)																																							
DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) Drill Pipe _____ Stands (m) _____ Drill Pipe _____ Stands (m) _____ Weight of DC (kg) _____ Kelly Down (m) _____ Weight of string (kg) _____ Total (m) _____										BITS Bit Number: _____ Size (mm): _____ MDC Code: _____ Manufacturer: _____ Type: _____ Serial No: _____ Jaws (mm): _____ Depth Out (m): _____ Depth In (m): _____ Total Drilled (m): _____ Hrs Run Today: _____ Cumulative Hrs Run: _____ Entry Date: _____										MUD RECORD Mud Type: _____ Water: _____ Oil: _____ Other: _____ Density (kg/m³): _____ Funnel Viscosity (cP): _____ Fluid Loss (cm): _____ pH: _____ Location: _____ Depth (m): _____ PVT (m³): _____										MUD MATERIALS ADDED Product: _____ Amount: _____ Type: _____										METRES DRILLED From (m): _____ To (m): _____ D-R-C: _____ RPM: _____ WOB (kN): _____										HOLE CONDITION Hole Drag Up (kN): _____ Hole Drag Down (kN): _____ Torque at Bottom (Nm): _____ Fill on Bottom (m): _____										TIME LOG From: _____ To: _____ Elapsed: _____ Code: _____ Details of Operations in Sequence & Remarks: _____									
REDUCED PUMP SPEED No. Pressure (kg) Strokes/min Depth (m) _____ _____ _____										BOILER No. Hours Run pH Stack Temp (°C) _____ _____ _____										DEVIATION SURVEYS Time Depth (m) Deviation Direction Type 13:00 641.64 4.6 223 DIRECTIONAL 13:45 651.13 4.6 223 DIRECTIONAL 14:30 660.64 4.6 223 DIRECTIONAL										SAFETY Safety Topic: _____ MEHL (kg) MACP (kg)																																							
DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) Drill Pipe _____ Stands (m) _____ Drill Pipe _____ Stands (m) _____ Weight of DC (kg) _____ Kelly Down (m) _____ Weight of string (kg) _____ Total (m) _____										BITS Bit Number: _____ Size (mm): _____ MDC Code: _____ Manufacturer: _____ Type: _____ Serial No: _____ Jaws (mm): _____ Depth Out (m): _____ Depth In (m): _____ Total Drilled (m): _____ Hrs Run Today: _____ Cumulative Hrs Run: _____ Entry Date: _____										MUD RECORD Mud Type: _____ Water: _____ Oil: _____ Other: _____ Density (kg/m³): _____ Funnel Viscosity (cP): _____ Fluid Loss (cm): _____ pH: _____ Location: _____ Depth (m): _____ PVT (m³): _____										MUD MATERIALS ADDED Product: _____ Amount: _____ Type: _____										METRES DRILLED From (m): _____ To (m): _____ D-R-C: _____ RPM: _____ WOB (kN): _____										HOLE CONDITION Hole Drag Up (kN): _____ Hole Drag Down (kN): _____ Torque at Bottom (Nm): _____ Fill on Bottom (m): _____										TIME LOG From: _____ To: _____ Elapsed: _____ Code: _____ Details of Operations in Sequence & Remarks: _____									
REDUCED PUMP SPEED No. Pressure (kg) Strokes/min Depth (m) _____ _____ _____										BOILER No. Hours Run pH Stack Temp (°C) _____ _____ _____										DEVIATION SURVEYS Time Depth (m) Deviation Direction Type 13:00 641.64 4.6 223 DIRECTIONAL 13:45 651.13 4.6 223 DIRECTIONAL 14:30 660.64 4.6 223 DIRECTIONAL										SAFETY Safety Topic: _____ MEHL (kg) MACP (kg)																																							

FRONT PAGE SUMMARY										DAILY CHECKS										FUEL W/ 08:00 HOURS										DRILL PIPE										MUD PUMPS										GENERAL EQUIPMENT & SERVICES									
Job Sheet Serial Number: JVS2438, 20100204, 1A Pason Vendor Software Version: 2010 Month: 02 Day: 04										1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly Rigging Check List 3) H2S Scribe Period 4 Renewal 4) Well Control & Shut Down Diagrams 5) Flow Lines Scribed 6) BOP Drills Performed 7) Visually Inspected BOPs - Flow Lines & Degasser Lines										Rig: 205 Boiler: 0 Op Fuel: 0 Time: 08:00 Temp: -21 Current Conditions: OVERCAST Wind Direction: S Wind Strength: UP TO 19 KMH Read Condition: FAIR										Category: DC Thread Type: 4.5XH Grade: DC OD (mm): 150 ID (mm): 50 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Total Length (m): 158.00 DC: 4FH HWDP: 133 62 41.6000 16 133.00 DP: 4FH SS95 133 85 23.3000 205 133.00										No.: 1 Make: EMSCO Stroke Length (mm): 1 EMSCO 2 EMSCO										Description: LOADER Hours: 0.00 CREW TRUCK 0.00									
Rig No.: 438 Well Name: Para et al Cameron M-74 Surface Location: 46755.5436N 117.2815E Prov: NJ Lic Type: 300M746010117150 Unique Well Id: 4 Jelly Running: 4										License No.: 1221 Operator: PARAMOUNT RESOURCES LTD Contractor's AFE: 69NO10005 Signature of Operator Representative: JOHN WILLIAMS Contractor: PRECISION DRILLING, DIV OF PDC Contractor's Job No: 630 Signature of Contractor's Rig manager: TERRY SCHAUFERT Well Type: VERT Re-Entry: ☐ Start Date: 2010/01/17 Time: 07:30 Rig Release Date: 07:30										1) Rig Site Health & Safety Meeting (once/week/month) 2) CAUDC Rig Safety Inspection Checklist (once/week/month) 3) Mast Inspection before Raising or Lowering 4) Crown Saver Checked 5) Motor Kils Checked										Casing: Category: SURFACE Make: KLSIDE Grade: J-55 OD (mm): 219 ID (mm): 206 Linear Mass (kg/m): 35.72 No. of Joints: 28 Total Length (m): 373 K5 to C56 Head (m): 4 K5 to C56 Bottom (m): 377										SHAPE SHAKERS No.: 1 Top Screen: 120 Middle Screen: 120 Bottom Screen: 84 No. of Joints: 1 Total Length (m): 120																			
TOUR 1										TOUR 2										TOUR 3																																							
DRILLING ASSEMBLY										DRILLING ASSEMBLY										DRILLING ASSEMBLY																																							
No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)																																							
1 BIT 200 1 0.23										1 BIT 200 1 0.23										1 BIT 200 1 0.23																																							
1 BIT SUB 161 1 0.91										1 BIT SUB 161 1 0.91										1 BIT SUB 161 1 0.91																																							
1 TELEDRIFT 154 71 2.47										1 TELEDRIFT 154 71 2.47										1 TELEDRIFT 154 71 2.47																																							
5 DC (8.25 IN) 156 58 45.58										5 DC (8.25 IN) 156 58 45.58										5 DC (8.25 IN) 156 58 45.58																																							
1 SHORT DC 166 64 4.81										1 SHORT DC 166 64 4.81										1 SHORT DC 166 64 4.81																																							
1 JARS-HYD 166 60 5.51										1 JARS-HYD 166 60 5.51										1 JARS-HYD 166 60 5.51																																							
8 DC (8.25 IN) 156 58 72.15										8 DC (8.25 IN) 156 58 72.15										8 DC (8.25 IN) 156 58 72.15																																							
1 X/O 156 58 0.28										1 X/O 156 58 0.28										1 X/O 156 58 0.28																																							
6 HWDP 102 55.70										6 HWDP 102 55.70										6 HWDP 102 55.70																																							
23 Drill Pipe Stands (m) 437.02										23 Drill Pipe Stands (m) 437.02										23 Drill Pipe Stands (m) 437.02																																							
1 Drill Pipe Singles (m) 8.48										1 Drill Pipe Singles (m) 8.48										1 Drill Pipe Singles (m) 8.48																																							
Weight of DC (total) 22 Kelly Down (m) 11.88										Weight of DC (total) 22 Kelly Down (m) 11.88										Weight of DC (total) 22 Kelly Down (m) 11.88																																							
Weight of string (total) 30 Total (m) 646.02										Weight of string (total) 30 Total (m) 646.02										Weight of string (total) 30 Total (m) 646.02																																							
TOUR 1										TOUR 2										TOUR 3																																							
DRILLING ASSEMBLY										DRILLING ASSEMBLY										DRILLING ASSEMBLY																																							
No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)																																							
1 BIT 200 1 0.23										1 BIT 200 1 0.23										1 BIT 200 1 0.23																																							
1 BIT SUB 161 1 0.91										1 BIT SUB 161 1 0.91										1 BIT SUB 161 1 0.91																																							
1 TELEDRIFT 154 71 2.47										1 TELEDRIFT 154 71 2.47										1 TELEDRIFT 154 71 2.47																																							
5 DC (8.25 IN) 156 58 45.58										5 DC (8.25 IN) 156 58 45.58										5 DC (8.25 IN) 156 58 45.58																																							
1 SHORT DC 166 64 4.81										1 SHORT DC 166 64 4.81										1 SHORT DC 166 64 4.81																																							
1 JARS-HYD 166 60 5.51										1 JARS-HYD 166 60 5.51										1 JARS-HYD 166 60 5.51																																							
8 DC (8.25 IN) 156 58 72.15										8 DC (8.25 IN) 156 58 72.15										8 DC (8.25 IN) 156 58 72.15																																							
1 X/O 156 58 0.28										1 X/O 156 58 0.28										1 X/O 156 58 0.28																																							
6 HWDP 102 55.70										6 HWDP 102 55.70										6 HWDP 102 55.70																																							
28 Drill Pipe Stands (m) 494.05										28 Drill Pipe Stands (m) 494.05										28 Drill Pipe Stands (m) 494.05																																							
1 Drill Pipe Singles (m) 8.48										1 Drill Pipe Singles (m) 8.48										1 Drill Pipe Singles (m) 8.48																																							
Weight of DC (total) 22 Kelly Down (m) 11.88										Weight of DC (total) 22 Kelly Down (m) 11.88										Weight of DC (total) 22 Kelly Down (m) 11.88																																							
Weight of string (total) 30 Total (m) 703.05										Weight of string (total) 30 Total (m) 703.05										Weight of string (total) 30 Total (m) 703.05																																							
TOUR 1										TOUR 2										TOUR 3																																							
DRILLING ASSEMBLY										DRILLING ASSEMBLY										DRILLING ASSEMBLY																																							
No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)																																							
1 BIT 200 1 0.23										1 BIT 200 1 0.23										1 BIT 200 1 0.23																																							
1 BIT SUB 161 1 0.91										1 BIT SUB 161 1 0.91										1 BIT SUB 161 1 0.91																																							
1 TELEDRIFT 154 71 2.47										1 TELEDRIFT 154 71 2.47										1 TELEDRIFT 154 71 2.47																																							
5 DC (8.25 IN) 156 58 45.58										5 DC (8.25 IN) 156 58 45.58										5 DC (8.25 IN) 156 58 45.58																																							
1 SHORT DC 166 64 4.81										1 SHORT DC 166 64 4.81										1 SHORT DC 166 64 4.81																																							
1 JARS-HYD 166 60 5.51										1 JARS-HYD 166 60 5.51										1 JARS-HYD 166 60 5.51																																							
8 DC (8.25 IN) 156 58 72.15										8 DC (8.25 IN) 156 58 72.15										8 DC (8.25 IN) 156 58 72.15																																							
1 X/O 156 58 0.28										1 X/O 156 58 0.28										1 X/O 156 58 0.28																																							
6 HWDP 102 55.70										6 HWDP 102 55.70										6 HWDP 102 55.70																																							
28 Drill Pipe Stands (m) 532.15										28 Drill Pipe Stands (m) 532.15										28 Drill Pipe Stands (m) 532.15																																							
1 Drill Pipe Singles (m) 0.00										1 Drill Pipe Singles (m) 0.00										1 Drill Pipe Singles (m) 0.00																																							
Weight of DC (total) 22 Kelly Down (m) 11.88										Weight of DC (total) 22 Kelly Down (m) 11.88										Weight of DC (total) 22 Kelly Down (m) 11.88																																							
Weight of string (total) 30 Total (m) 731.87										Weight of string (total) 30 Total (m) 731.87										Weight of string (total) 30 Total (m) 731.87																																							

TOUR 1		SIGNATURE OF DRILLER				STEVE GENERT		START TIME 00:00		END TIME 08:00		
DRILLING ASSEMBLY				BITS		MUD RECORD		MUD MATERIALS ADDED		METRES DRILLED		
No.	Component	ØD (mm)	Length (m)	Size	Time	Mud Type	Water	Oil	Other	Product	Amount	Type
1	BIT	200	1	200	02:00	03:45				KELZAN XCD	7	SX
1	BIT SUB	161	1	0.91								
1	CDR EDRIFT	154	71	2.47								
1	CDR 16.25 IN	156	148	45.58								
1	EHORT DR	166	64	4.61								
1	JARS-HYD	166	60	5.51								
1	CD (6.25 IN)	156	58	72.15								
1	XJO	156	58	0.28								
1	HWDP	102		55.79								
				BDC Code 4 4 1 X Manufacturer YAREL Type HE18MSV Serial No 250556 Job# (mm) 14.3 14.3 14.3 Depth (m) Depth in (m) Total D-Band (m) Hrs Run Today Cumulative Hrs Run 15.25 Entry Date 2010/02/05		Mud Type Density (kg/m³) 1210 Funnel Viscosity (cP) 37 Fluid Loss (cm) pH 8 Location SHAKE SHAKE Depth (m) 694 PVT (m) 6 43		Product Amount Type KELZAN XCD 7 SX		From (m) 624 To (m) 731 D-R-C REAM 30 WOB (kdaN) 2		
				Mud Type Density (kg/m³) 1210 Funnel Viscosity (cP) 37 Fluid Loss (cm) pH 8 Location SHAKE SHAKE Depth (m) 694 PVT (m) 6 43		Product Amount Type KELZAN XCD 7 SX		From (m) 624 To (m) 731 D-R-C REAM 30 WOB (kdaN) 2		HOLE CONDITION Hole Drag Up (kdaN) 0.257 Hole Drag Down (kdaN) Tongue at Bottom (kN) Fill on Bottom (m)		
				SOLIDS CONTROL Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³)		REDUCED PUMP SPEED No. Pressure (bar) Stroke/min Depth (m) 2 800 69 695 2 800 69 695 2 800 69 695		BOILER No. Hours Run pH Stack Temp (°C) 165 8.00 10.0 375.00		TIME LOG From To Elapsed Code 00:00 00:15 RIG SERVICE FUNCTION ANNUAL Q10 8 SECONDS 00:15 00:45 REAM A CLEAN FROM 624M TO 731m 00:45 04:30 CIRCULATE BOTTOMS UP 04:00 04:15 DEVIATION SURVEY 0720 4 DEGREE 04:15 07:30 TRIP OUT OF HOLE FC @ 716,665,387,156.0M 07:30 07:45 RIG SERVICE FUNCTIONED BLIND RAMS Q10 5 SECONDS 07:45 08:00 WEEKLY FOCUS SAFETY MEETING WITH RIG MANAGER		
				DULL GRADE Gauge (mm) OOC Reason Followed Total Run (m/h) SRO		SAFETY Safety Topic MERS (kdaN) MACP (PSI) 3088		CIRCULATION Pumping Type Line Size (mm) SPM Pressure (bar) Hours Run 2 SPOOLE 152 100 1700 4.00		DEVIATION SURVEYS Time Depth (m) Deviation (m) Direction Type 04:15 720.00 6.0 0 WIRELINE		
28 Drill Pipe Stands (m) 532.15 0 Drill Pipe Stands (m) 0.00 Weight of DC (kdaN) 22 Entry Down (m) 11.99 Weight of string (kdaN) 30 Total up 731.67										Remarks: FUNCTION CROWN SAVER VIS INSPECT TONGUES/LINES SLIPS BLOW DOWN BOILER 2X HOLE FILL ANT 3.82, ACT 3.49, DIFF. - .34		

TOUR 3										SIGNATURE OF DRILLER _____ STEVE GENERT										START TIME 20:00										END TIME 24:00																																							
DRILLING ASSEMBLY										BITS										MUD RECORD										MUD MATERIALS ADDED										METRES DRILLED										HOLE CONDITION										TIME LOG									
No.	Component	ID (mm)	DWID (mm)	Length (m)	Bit Number	Size (mm)	MAC Code	Manufacturer	Type	Mud Type	Water (%)	LSD (%)	G (%)	O (%)	Product	Amount	Type	From (m)	To (m)	D-R-C	RPM	WOB (kN)	Hole Drag Up (kN)	Hole Drag Down (kN)	Torque at Bottom (Nm)	FRI on Bottom (m)	From	Elapsed Time	Details of Operations in Sequence & Remarks																																								
1	BIT	200	-	0.93	3		200																				20:00	20:30	0.50 21D PRE-JOB SAFETY WITH CEMENTERS (GAIN/LI)																																								
1	BIT SUB	161	-	0.24																							20:30	20:45	0.25 12C GEMENTING PLUG #2																																								
1	TABLED RHT	154	-	2.47	VAREL																						20:45	21:15	0.50 1X TRIPS, PULL OUT OF CEMENT																																								
1	XJO	156	1	0.36	HE18MSV																						21:15	24:00	2.75 5X CIRCULATE WAIT ON CEMENT																																								
1	XJO	152	1	0.34	Serial No	250658				pH	8																																																										
1	MONEL	168	1	9.47	Jets (mm)	14.3 14.3 14.3				Location	SHAKER	SHAKER																																																									
1	XJO	105	1	0.39						Depth Out (m)	607	607																																																									
5	DC (8-25 IN)	150	58	45.50						PVI (m)	39	49																																																									
1	SHORT DC	108	64	4.61	Total Drilled (m)	776																																																															
1	JARIS-HYD	166	60	5.51	Hrs Run Today																																																																
8	DC (8-25 IN)	156	58	72.15	Cumulative Hrs Run	0.00																																																															
1	XJO	156	58	0.28	Entry Date	2010/02/06																																																															
9	IHWDP	102	-	55.79																																																																	
DULL GRADE										SOLIDS CONTROL										REDUCED PUMP SPEED										BOILER										DEVIATION SURVEYS																													
T ₁	Gauge (mm)	T ₂	GUC	MDC	Reason Pulled	LDC	Total Run (m/h)	BRG		Equipment Name	Hours Run	Intake Density (kg/m³)	Over Flow Density (kg/m³)	Under Flow Density (kg/m³)	No.	Pressure (Kpa)	Strokes/min	Depth (m)	No.	Hours Run	pH	Stack Temp (°C)	Time	Depth (m)	Deviation	Direction	Type																																										
28	Drill Pipe	Standards	532.15							UNITED OILFIELD	8.50	1010	1000	1680	2	780	60	502	165	8.00	10.0	375.00																																															
	Drill Pipe	Singles	0.00												1	780	60	475																																																			
	Weight of DC (Actual)	22	Kelly Down (m)	11.89																																																																	
	Weight of string (Actual)	304	Total (m)	742.23																																																																	
SAFETY																																																																					
Safety Topic										MEHS (Initials)										MACP (Sign)																																																	

FRONT PAGE SUMMARY										DAILY CHECKS										FUEL @ 08:00 HOURS										DRILL PIPE										MUD PUMPS										GENERAL EQUIPMENT & SERVICES																			
Your Sheet Serial Number: 952436, 20100207, 18Pason Vendor Software Version: 3010, 02, 07 Year: 2010, 02, 07										1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Alpha Check List) 3) H2S Signs Posted if Required 4) Well License & Stick Diagram Posted 5) Flow Lines Checked 6) BOP Driller Performed 7) Visually Inspected BOP's - Hare Lines & Bypasses Lines 8) BOP Driller Performed 9) Visually Inspected BOP's - Hare Lines & Bypasses Lines										Rig: 125 Boiler: 0 Op Fuel: 0 Weather: 08:00 Temp: -12 Current Conditions: OVERCAST Wind Direction: S Wind Strength: UP TO 19 KM/H Road Condition: FAIR										Category: 4.5KH Thrust Type: DC Grade: 156 ID (mm): 58 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Total Length (m): 158.00 4FH: HWDP 133 62 41.6000 16 133.00 4FH: SS&S 133 65 23.3000 205 133.00										No.: 1 Make: EMSCO Stroke Length (mm): 1 2 EMSCO										Description: LOADER CREW TRUCK Hours: 0.00 0.00																			
Licence No.: 1221 Operator: PARAMOUNT RESOURCES LTD. Contractor: PRECISION DRILLING, DIV OF PDC Operator's AFE: 530 Signature of Operator Representative: JOHN WILLIAMS Signature of Contractor's Rig Manager: TERRY SCHAUFERT										Well Type: VERT Size Date: 2010/01/17 7:30 Rig Release Date: 2010/02/07										1) Rig Site Health & Safety Meeting (one/week/month) 2) CAODC Rig Safety Inspection Checklist (one/week/month) 3) Master Inspection before Raising or Lowering 4) Crown Saver Checked 5) Master Film Checked										Category: SURFACE Motor: LKSID Grade: J-55 ID (mm): 218 ID (mm): 206 Linear Mass (kg/m): 35.72 No. of Joints: 26 Total Length (m): 373 K9 to CSG Head (m): 4 K9 to CSG Bottom (m): 377										No.: 1 Make: EMSCO Stroke Length (mm): 1 2 EMSCO										Description: LOADER CREW TRUCK Hours: 0.00 0.00																			
TOUR 1										SIGNATURE OF DRILLER										STEVE GENERT										START TIME										END TIME																													
DRILLING ASSEMBLY										BITS										MUD RECORD										MUD MATERIALS ADDED										METRES DRILLED										HOLE CONDITION										TIME LOG									
No. Component ID (mm) OD (mm) Length (m)										Bit Number: 3 Size (mm): 200 MDC Code: 4, 4, 7, X Manufacturer: VAREL Type: HE18MSRV Serial No: 2509550 Joints (mm): 14.3, 14.3, 14.3, 10.3 Depth Out (m): 10.3, 10.3, 10.3 Depth In (m): 535 Total Drilled (m): 158 New Run Today: 0.00 Cumulative Hrs Run: 15.25 Entry Date: 2010/02/07										Mud Type: Water Time: 11:00, 13:00, 15:00 Density (kg/m³): 1010, 1010, 1010 Funnel Viscosity (cP): 34, 28, 28 Fluid Loss (cm): pH: 12, 12, 11 Location: SHAKER, SHAKER, SHAKER Depth (m): 530, 577, 614 PVT (m³): 27, 28, 28										Product: CALCIUM NITRATE, CITRIC ACID, ULTRA PAG R, KEL ZAN Amount: 8, 10, 1, 1 Type: S, S, S, S										From (m) To (m) D-R-C RPM WOB (kN)										Hole Drag Up (kN), Hole Drag Down (kN), Torque at Bottom (Nm), Fill on Bottom (m)										From To Elapsed Code 00:00 00:15 0.25 7 RIG SERVICE FUNCTION ANNUAL C/O 8 SECONDS 00:15 00:45 0.50 5 CIRCULATE WAIT ON CEMENT 00:45 01:30 0.75 12C CEMENTING FEEL PLUG #2 @ 535 M 01:30 01:45 0.25 5 CIRCULATE 01:45 05:15 3.50 6 TRIPS FOR FIBERGLASS TURNING FC @ 383.166 OM FUNCTION BLIND RAMS OUT OF HOLE 05:15 08:00 2.75 6C PICK UP BHA, RIM FC @ 0.166 378.									
28 Drill Pipe Stands (m) 532.15 0 Drill Pipe Stands (m) 0.00 Weight of DC (kN) 22 Kelly Down (m) 11.88 Weight of string (kN) 31 Total (m) 742.23										DULL GRADE T ₁ Gauge (mm) 0.00 T ₂ Reason Pulled 0.00 MDC LDC Total Run (m/h) 13.14										SAFETY Safety Topic: MEHL (kN) MACP (kN) 3068										REDUCED PUMP SPEED No. Pressure (kPa) Strokes/min Depth (m) 1 780 60 475										BOILER No. Hours Run pH Stack Temp (°C) 1 165 8.00 10.0 375.00										CIRCULATION Pump Type Linear Size (mm) SPM Pressure (kPa) Hours Run 1 152 60 780 2.00										DEVIATION SURVEYS Time Depth (m) Deviation Direction Type									
TOUR 2										SIGNATURE OF DRILLER										HAROLD RABY										START TIME										END TIME																													
DRILLING ASSEMBLY										BITS										MUD RECORD										MUD MATERIALS ADDED										METRES DRILLED										HOLE CONDITION										TIME LOG									
No. Component ID (mm) OD (mm) Length (m)										Bit Number: 2D Size (mm): 200 MDC Code: 4, 4, 7, X Manufacturer: VAREL Type: VTD513HX Serial No: 4001140 Joints (mm): 10.3, 10.3, 10.3, 10.3 Depth Out (m): 10.3, 10.3, 10.3 Depth In (m): 535 Total Drilled (m): 150 New Run Today: 0.00 Cumulative Hrs Run: 0.00 Entry Date: 2010/02/07										Mud Type: Water Time: 11:00, 13:00, 15:00 Density (kg/m³): 1010, 1010, 1010 Funnel Viscosity (cP): 34, 28, 28 Fluid Loss (cm): pH: 12, 12, 11 Location: SHAKER, SHAKER, SHAKER Depth (m): 530, 577, 614 PVT (m³): 27, 28, 28										Product: CALCIUM NITRATE, CITRIC ACID, ULTRA PAG R, KEL ZAN Amount: 8, 10, 1, 1 Type: S, S, S, S										From (m) To (m) D-R-C RPM WOB (kN)										Hole Drag Up (kN), Hole Drag Down (kN), Torque at Bottom (Nm), Fill on Bottom (m)										From To Elapsed Code 08:00 08:15 0.25 7 RIG SERVICE FUNCTIONED ANNUAL PREVENTER C/O 8 SECONDS 08:15 08:30 0.25 9 CUT OFF DRILL LINE 08:30 09:00 0.50 6 TRIPS LAY DOWN 28 DRILL PIPE 09:00 10:30 1.50 6 TRIPS, RIM TO 535M (TAGGED CEMENT) 10:30 20:00 9.50 2C DRILL CEMENT FROM 535m TO 685m									
23 Drill Pipe Stands (m) 437.00 0 Drill Pipe Stands (m) 0.00 Weight of DC (kN) 22 Kelly Down (m) 11.88 Weight of string (kN) 31 Total (m) 647.10										DULL GRADE T ₁ Gauge (mm) 0.00 T ₂ Reason Pulled 0.00 MDC LDC Total Run (m/h) 13.14										SAFETY Safety Topic: MEHL (kN) MACP (kN) 3068										REDUCED PUMP SPEED No. Pressure (kPa) Strokes/min Depth (m) 1 1300 60 535										BOILER No. Hours Run pH Stack Temp (°C) 1 165 12.00 9.0 375.00										CIRCULATION Pump Type Linear Size (mm) SPM Pressure (kPa) Hours Run 1 152 60 2200 10.00										DEVIATION SURVEYS Time Depth (m) Deviation Direction Type									
TOUR 3										SIGNATURE OF DRILLER										STEVE GENERT										START TIME										END TIME																													
DRILLING ASSEMBLY										BITS										MUD RECORD										MUD MATERIALS ADDED										METRES DRILLED										HOLE CONDITION										TIME LOG									
No. Component ID (mm) OD (mm) Length (m)										Bit Number: 2D Size (mm): 200 MDC Code: 4, 4, 7, X Manufacturer: VAREL Type: VTD513HX Serial No: 4001140 Joints (mm): 10.3, 10.3, 10.3, 10.3 Depth Out (m): 10.3, 10.3, 10.3 Depth In (m): 535 Total Drilled (m): 207 New Run Today: 0.50 Cumulative Hrs Run: 15.75 Entry Date: 2010/02/07										Mud Type: Water Time: 22:30 Density (kg/m³): 1010 Funnel Viscosity (cP): 30 Fluid Loss (cm): pH: 11 Location: SHAKER Depth (m): 726 PVT (m³): 18										Product: CAL CARB 17 CODE 1037, CAL CARB 228 CODE 1038, SAWDUST CODE 1122 Amount: 3, 3, 3 Type: S, S, S										From (m) To (m) D-R-C RPM WOB (kN)										Hole Drag Up (kN), Hole Drag Down (kN), Torque at Bottom (Nm), Fill on Bottom (m)										From To Elapsed Code 20:00 23:30 3.00 2C DRILL CEMENT FROM 658m TO 731m 23:30 23:35 0.50 2 DRILL 2000mm HOLE FROM 731m TO 742m 23:35 23:45 0.25 5 CIRCULATE BOTTOMS UP 23:45 24:00 0.25 10 DEVIATION SURVEY 2.5 DEGREES									
28 Drill Pipe Stands (m) 532.15 0 Drill Pipe Stands (m) 0.00 Weight of DC (kN) 22 Kelly Down (m) 11.88 Weight of string (kN) 31 Total (m) 742.23										DULL GRADE T ₁ Gauge (mm) 0.00 T ₂ Reason Pulled 0.00 MDC LDC Total Run (m/h) 13.14										SAFETY Safety Topic: MEHL (kN) MACP (kN) 3068										REDUCED PUMP SPEED No. Pressure (kPa) Strokes/min Depth (m) 1 2000 60 715										BOILER No. Hours Run pH Stack Temp (°C) 1 165 4.00 10.0 375.00										CIRCULATION Pump Type Linear Size (mm) SPM Pressure (kPa) Hours Run 1 152 60 2500 4.00										DEVIATION SURVEYS Time Depth (m) Deviation Direction Type									
TOUR 4										SIGNATURE OF DRILLER										STEVE GENERT										START TIME										END TIME																													
DRILLING ASSEMBLY										BITS										MUD RECORD										MUD MATERIALS ADDED										METRES DRILLED										HOLE CONDITION										TIME LOG									
No. Component ID (mm) OD (mm) Length (m)										Bit Number: 2D Size (mm): 200 MDC Code: 4, 4, 7, X Manufacturer: VAREL Type: VTD513HX Serial No: 4001140 Joints (mm): 10.3, 10.3, 10.3, 10.3 Depth Out (m): 10.3, 10.3, 10.3 Depth In (m): 535 Total Drilled (m): 207 New Run Today: 0.50 Cumulative Hrs Run: 15.75 Entry Date: 2010/02/07										Mud Type: Water Time: 22:30 Density (kg/m³): 1010 Funnel Viscosity (cP): 30 Fluid Loss (cm): pH: 11 Location: SHAKER Depth (m): 726 PVT (m³): 18										Product: CAL CARB 17 CODE 1037, CAL CARB 228 CODE 1038, SAWDUST CODE 1122 Amount: 3, 3, 3 Type: S, S, S										From (m) To (m) D-R-C RPM WOB (kN)										Hole Drag Up (kN), Hole Drag Down (kN), Torque at Bottom (Nm), Fill on Bottom (m)										From To Elapsed Code 23:45 24:00 0.25 10 DEVIATION SURVEY 2.5 DEGREES									
28 Drill Pipe Stands (m) 532.15 0 Drill Pipe Stands (m) 0.00 Weight of DC (kN) 22 Kelly Down (m) 11.88 Weight of string (kN) 31 Total (m) 742.23										DULL GRADE T ₁ Gauge (mm) 0.00 T ₂ Reason Pulled 0.00 MDC LDC Total Run (m/h) 13.14										SAFETY Safety Topic: MEHL (kN) MACP (kN) 3068										REDUCED PUMP SPEED No. Pressure (kPa) Strokes/min Depth (m) 1 2000 60 715										BOILER No. Hours Run pH Stack Temp (°C) 1 165 4.00 10.0 375.00										CIRCULATION Pump Type Linear Size (mm) SPM Pressure (kPa) Hours Run 1 152 60 2500 4.00										DEVIATION SURVEYS Time Depth (m) Deviation Direction Type									

FRONT PAGE SUMMARY		Tour Sheet Serial Number: 2Y52436_20100207_1B-Pason		Year: 2010 Month: 02 Day: 07		DAILY CHECKS		OP RM		FUEL @ 08:00 HOURS		DRILL PIPE		MUD PUMPS		GENERAL EQUIPMENT & SERVICES		 Pason 6317
Rig No. / Well Name: 438 / Para et al Cameron M-74 (6.60E)		Surface Location: 40-03-50.00N/117-59-10.00W		Flow Loc Type: NT		Unique Well ID: 300M746010117159		4 Daily Trip Around Borehole		Rig: Boiler		Category: Thrust Type: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Tool Joint OD (mm):		No.: Make: Stroke Length (mm):		Description: Hours:		
License No. 1221 Operator: PARAMOUNT RESOURCES LTD		Contractor: PRECISION DRILLING, DIV OF PDC		Well Type: Re-Entry		Re-Entry: VERT		5 Rig Site Health & Safety Meeting (as recommended)		Op Fuel: Wind Direction: Wind Strength: Road Condition:		Casing: Category: Make: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Length (m): KB to CSG Head (m): KB to CSG Bottom (m):		No. Make: Stroke Length (mm):		Description: Hours:		
Operator's APE: JOHN WILLIAMS		Contractor's Job No: E50		Spud Date: 2010/01/17		Time: 07:30		6 CAUDC Rig Safety Inspection Checklist (per 15 months)		Temp: Carried Conditions: Mud Disposition: Road Condition:		Casing: Category: Make: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Length (m): KB to CSG Head (m): KB to CSG Bottom (m):		No. Make: Stroke Length (mm):		Description: Hours:		
Signature of Operator Representative: JOHN WILLIAMS		Signature of Contractor's Rig manager: TERRY SCHAUFERT		Rig Release Date: 2010/01/17		Time: 07:30		7 Visually Inspected BOP - Flow Lines & Dogasser Lines		Temp: Carried Conditions: Mud Disposition: Road Condition:		Casing: Category: Make: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Length (m): KB to CSG Head (m): KB to CSG Bottom (m):		No. Make: Stroke Length (mm):		Description: Hours:		

TOUR 1										TOUR 2										TOUR 3									
DRILLING ASSEMBLY										DRILLING ASSEMBLY										DRILLING ASSEMBLY									
No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)									
DRILL PIPE Stands (m) Single (m) Weight of DC (kdaN) Kelly Down (m) Weight of string (kdaN) Total (m)										DRILL PIPE Stands (m) Single (m) Weight of DC (kdaN) Kelly Down (m) Weight of string (kdaN) Total (m)										DRILL PIPE Stands (m) Single (m) Weight of DC (kdaN) Kelly Down (m) Weight of string (kdaN) Total (m)									
BITS										BITS										BITS									
Bit Number: Size (mm): ABC Code: Manufacturer: Type: Serial No: Jct (mm):										Bit Number: Size (mm): ABC Code: Manufacturer: Type: Serial No: Jct (mm):										Bit Number: Size (mm): ABC Code: Manufacturer: Type: Serial No: Jct (mm):									
Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:										Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:										Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:									
DULL GRADE										DULL GRADE										DULL GRADE									
T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LDC: Total Run (m/hr): BGC:										T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LDC: Total Run (m/hr): BGC:										T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LDC: Total Run (m/hr): BGC:									
MUD RECORD										MUD RECORD										MUD RECORD									
Mud Type: Water: Oil: Other: Time: 18:00										Mud Type: Water: Oil: Other: Time: 18:00										Mud Type: Water: Oil: Other: Time: 18:00									
Density (kg/m ³): 1.010										Density (kg/m ³): 1.010										Density (kg/m ³): 1.010									
Funnel Viscosity (cP): 30										Funnel Viscosity (cP): 30										Funnel Viscosity (cP): 30									
Fluid Loss (cm): pH: 11										Fluid Loss (cm): pH: 11										Fluid Loss (cm): pH: 11									
Location: SHAKEHILL										Location: SHAKEHILL										Location: SHAKEHILL									
Depth (m): 678										Depth (m): 678										Depth (m): 678									
PVT (m): 22										PVT (m): 22										PVT (m): 22									
SOLIDS CONTROL										SOLIDS CONTROL										SOLIDS CONTROL									
Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³):										Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³):										Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³):									
SAFETY										SAFETY										SAFETY									
Safety Topic: MEHL (kdaN) MACP (kdaN)										Safety Topic: MEHL (kdaN) MACP (kdaN)										Safety Topic: MEHL (kdaN) MACP (kdaN)									
METRES DRILLED										METRES DRILLED										METRES DRILLED									
From (m): To (m): D-R-C: RPM: WOB (kdaN)										From (m): To (m): D-R-C: RPM: WOB (kdaN)										From (m): To (m): D-R-C: RPM: WOB (kdaN)									
REDUCED PUMP SPEED										REDUCED PUMP SPEED										REDUCED PUMP SPEED									
No. Pressure (kPa): Strokes/min: Depth (m):										No. Pressure (kPa): Strokes/min: Depth (m):										No. Pressure (kPa): Strokes/min: Depth (m):									
CIRCULATION										CIRCULATION										CIRCULATION									
Pump Type: Line Size (mm): GPM: Pressure (kPa): Hours Run:										Pump Type: Line Size (mm): GPM: Pressure (kPa): Hours Run:										Pump Type: Line Size (mm): GPM: Pressure (kPa): Hours Run:									
HOLE CONDITION										HOLE CONDITION										HOLE CONDITION									
Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m):										Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m):										Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m):									
BOILER										BOILER										BOILER									
No. Hours Run: pH: Stack Temp (°C):										No. Hours Run: pH: Stack Temp (°C):										No. Hours Run: pH: Stack Temp (°C):									
DEVIATION SURVEYS										DEVIATION SURVEYS										DEVIATION SURVEYS									
Time: Depth (m): Deviation (Direction): Type:										Time: Depth (m): Deviation (Direction): Type:										Time: Depth (m): Deviation (Direction): Type:									
TIME LOG										TIME LOG										TIME LOG									
From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:										From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:										From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:									
Remarks:										Remarks:										Remarks:									

TOUR 1										TOUR 2										TOUR 3									
DRILLING ASSEMBLY										DRILLING ASSEMBLY										DRILLING ASSEMBLY									
No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)									
DRILL PIPE Stands (m) Single (m) Weight of DC (kdaN) Kelly Down (m) Weight of string (kdaN) Total (m)										DRILL PIPE Stands (m) Single (m) Weight of DC (kdaN) Kelly Down (m) Weight of string (kdaN) Total (m)										DRILL PIPE Stands (m) Single (m) Weight of DC (kdaN) Kelly Down (m) Weight of string (kdaN) Total (m)									
BITS										BITS										BITS									
Bit Number: Size (mm): ABC Code: Manufacturer: Type: Serial No: Jct (mm):										Bit Number: Size (mm): ABC Code: Manufacturer: Type: Serial No: Jct (mm):										Bit Number: Size (mm): ABC Code: Manufacturer: Type: Serial No: Jct (mm):									
Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:										Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:										Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:									
DULL GRADE										DULL GRADE										DULL GRADE									
T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LDC: Total Run (m/hr): BGC:										T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LDC: Total Run (m/hr): BGC:										T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LDC: Total Run (m/hr): BGC:									
MUD RECORD										MUD RECORD										MUD RECORD									
Mud Type: Water: Oil: Other: Time: 18:00										Mud Type: Water: Oil: Other: Time: 18:00										Mud Type: Water: Oil: Other: Time: 18:00									
Density (kg/m ³): 1.010										Density (kg/m ³): 1.010										Density (kg/m ³): 1.010									
Funnel Viscosity (cP): 30										Funnel Viscosity (cP): 30										Funnel Viscosity (cP): 30									
Fluid Loss (cm): pH: 11										Fluid Loss (cm): pH: 11										Fluid Loss (cm): pH: 11									
Location: SHAKEHILL										Location: SHAKEHILL										Location: SHAKEHILL									
Depth (m): 678										Depth (m): 678										Depth (m): 678									
PVT (m): 22										PVT (m): 22										PVT (m): 22									
SOLIDS CONTROL										SOLIDS CONTROL										SOLIDS CONTROL									
Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³):										Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³):										Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³):									
SAFETY										SAFETY										SAFETY									
Safety Topic: MEHL (kdaN) MACP (kdaN)										Safety Topic: MEHL (kdaN) MACP (kdaN)										Safety Topic: MEHL (kdaN) MACP (kdaN)									
METRES DRILLED										METRES DRILLED										METRES DRILLED									
From (m): To (m): D-R-C: RPM: WOB (kdaN)										From (m): To (m): D-R-C: RPM: WOB (kdaN)										From (m): To (m): D-R-C: RPM: WOB (kdaN)									
REDUCED PUMP SPEED										REDUCED PUMP SPEED										REDUCED PUMP SPEED									
No. Pressure (kPa): Strokes/min: Depth (m):										No. Pressure (kPa): Strokes/min: Depth (m):										No. Pressure (kPa): Strokes/min: Depth (m):									
CIRCULATION										CIRCULATION										CIRCULATION									
Pump Type: Line Size (mm): GPM: Pressure (kPa): Hours Run:										Pump Type: Line Size (mm): GPM: Pressure (kPa): Hours Run:										Pump Type: Line Size (mm): GPM: Pressure (kPa): Hours Run:									
HOLE CONDITION										HOLE CONDITION										HOLE CONDITION									
Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m):										Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m):										Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m):									
BOILER										BOILER										BOILER									
No. Hours Run: pH: Stack Temp (°C):										No. Hours Run: pH: Stack Temp (°C):										No. Hours Run: pH: Stack Temp (°C):									
DEVIATION SURVEYS										DEVIATION SURVEYS										DEVIATION SURVEYS									
Time: Depth (m): Deviation (Direction): Type:										Time: Depth (m): Deviation (Direction): Type:										Time: Depth (m): Deviation (Direction): Type:									
TIME LOG										TIME LOG										TIME LOG									
From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:										From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:										From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:									
Remarks:										Remarks:										Remarks:									

TOUR 1										TOUR 2										TOUR 3									
DRILLING ASSEMBLY										DRILLING ASSEMBLY										DRILLING ASSEMBLY									
No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)										No. Component OD (mm) ID (mm) Length (m)									
DRILL PIPE Stands (m) Single (m) Weight of DC (kdaN) Kelly Down (m) Weight of string (kdaN) Total (m)										DRILL PIPE Stands (m) Single (m) Weight of DC (kdaN) Kelly Down (m) Weight of string (kdaN) Total (m)										DRILL PIPE Stands (m) Single (m) Weight of DC (kdaN) Kelly Down (m) Weight of string (kdaN) Total (m)									
BITS										BITS										BITS									
Bit Number: Size (mm): ABC Code: Manufacturer: Type: Serial No: Jct (mm):										Bit Number: Size (mm): ABC Code: Manufacturer: Type: Serial No: Jct (mm):										Bit Number: Size (mm): ABC Code: Manufacturer: Type: Serial No: Jct (mm):									
Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:										Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:										Depth Out (m): Depth In (m): Total Drilled (m): Hrs Run Today: Cumulative Hrs Run: Entry Date:									
DULL GRADE										DULL GRADE										DULL GRADE									
T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LDC: Total Run (m/hr): BGC:										T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LDC: Total Run (m/hr): BGC:										T ₁ : Gauge (mm): T ₂ : ODC: MDC: Reason Pulled: LDC: Total Run (m/hr): BGC:									
MUD RECORD										MUD RECORD										MUD RECORD									
Mud Type: Water: Oil: Other: Time: 18:00										Mud Type: Water: Oil: Other: Time: 18:00										Mud Type: Water: Oil: Other: Time: 18:00									
Density (kg/m ³): 1.010										Density (kg/m ³): 1.010										Density (kg/m ³): 1.010									
Funnel Viscosity (cP): 30										Funnel Viscosity (cP): 30										Funnel Viscosity (cP): 30									
Fluid Loss (cm): pH: 11										Fluid Loss (cm): pH: 11										Fluid Loss (cm): pH: 11									
Location: SHAKEHILL										Location: SHAKEHILL										Location: SHAKEHILL									
Depth (m): 678										Depth (m): 678										Depth (m): 678									
PVT (m): 22										PVT (m): 22										PVT (m): 22									
SOLIDS CONTROL										SOLIDS CONTROL										SOLIDS CONTROL									
Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³):										Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³):										Equipment Name: Hours Run: Intake Density (kg/m ³): Over Flow Density (kg/m ³): Under Flow Density (kg/m ³):									
SAFETY										SAFETY										SAFETY									
Safety Topic: MEHL (kdaN) MACP (kdaN)										Safety Topic: MEHL (kdaN) MACP (kdaN)										Safety Topic: MEHL (kdaN) MACP (kdaN)									
METRES DRILLED										METRES DRILLED										METRES DRILLED									
From (m): To (m): D-R-C: RPM: WOB (kdaN)										From (m): To (m): D-R-C: RPM: WOB (kdaN)										From (m): To (m): D-R-C: RPM: WOB (kdaN)									
REDUCED PUMP SPEED										REDUCED PUMP SPEED										REDUCED PUMP SPEED									
No. Pressure (kPa): Strokes/min: Depth (m):										No. Pressure (kPa): Strokes/min: Depth (m):										No. Pressure (kPa): Strokes/min: Depth (m):									
CIRCULATION										CIRCULATION										CIRCULATION									
Pump Type: Line Size (mm): GPM: Pressure (kPa): Hours Run:										Pump Type: Line Size (mm): GPM: Pressure (kPa): Hours Run:										Pump Type: Line Size (mm): GPM: Pressure (kPa): Hours Run:									
HOLE CONDITION										HOLE CONDITION										HOLE CONDITION									
Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m):										Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m):										Hole Drag Up (kdaN): Hole Drag Down (kdaN): Torque at Bottom (Nm): Fill on Bottom (m):									
BOILER										BOILER										BOILER									
No. Hours Run: pH: Stack Temp (°C):										No. Hours Run: pH: Stack Temp (°C):										No. Hours Run: pH: Stack Temp (°C):									
DEVIATION SURVEYS										DEVIATION SURVEYS										DEVIATION SURVEYS									
Time: Depth (m): Deviation (Direction): Type:										Time: Depth (m): Deviation (Direction): Type:										Time: Depth (m): Deviation (Direction): Type:									
TIME LOG										TIME LOG										TIME LOG									
From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:										From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:										From: To: Elapsed: Code: Details of Operations in Sequence & Remarks:									
Remarks:										Remarks:										Remarks:									



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FRONT PAGE SUMMARY				DAILY CHECKS				FUEL @ 08:00 HOURS				DRILL PIPE				MUD PUMPS				GENERAL EQUIPMENT & SERVICES			
Four Short Record Number: 752436, 20100208, 1A Pason				Vendor Software Version: 2010 02 09				1) Daily Walk Around Inspection				Category: Thread Type Grade OD (mm) ID (mm) Linear Mass (kg/m) No. of Joints Tool Joint OD (mm)				No. Make Stroke Length (mm)				Description Hours			
Rig No. Well Name Surface Location Prov Loc Type Unique Well ID Kelly Batching				436 Pasa et al Cameron M-7425 (SL009/1732) 156 500				2) Detailed Inspection - Weekly Alpha Check 11m				DC 4.5XH DC 156 58 122.3200 10 158.00				1 EMSCO				LOADER 0.00			
Contractor's Job No				300M746010117150 4				3) H2S Signs Posited & Monitored				4FH HWDHP 133 62 41.6000 16 133.00				2 EMSCO				CREW TRUCK 0.00			
Signature of Operator Representative				Signature of Contractor's Rig Manager				4) Well Location & Stock Diagram Posited				DP 4FH SS95 133 65 23.3000 205 133.00											
JOHN WILLIAMS				TERRY SCHAUFERT				5) Flow Lines Checked															
License No. Operator				Contractor				6) BOP Grade Performed															
1221 PARAMOUNT RESOURCES LTD.				PRECISION DRILLING, DIV OF PDC				7) Visually Inspected BOPs - Flow Lines & Regulator Lines Low															
Operator's AFE				Contractor's Job No																			
BPM 10095				B30																			
Signature of Operator Representative				Signature of Contractor's Rig Manager																			
JOHN WILLIAMS				TERRY SCHAUFERT																			

TOUR 1				SIGNATURE OF DRILLER				STEVE GENERT				START TIME				END TIME											
DRILLING ASSEMBLY				DRILL PIPE				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG			
No. Component OD (mm) ID (mm) Length (m)				Bit Number 2D				Mud Type Water Oil Air Other				Product Amount Type				From (m) To (m) D-R-C RPM WOB (kN)				Hole Drag Up (kN)				From To Elapsed Code			
1 BIT SUB 200 1 0.23				Size (mm) 200				Time 02:00 04:00 05:30				ULTRA PAC R 6 SX				081 1026 DRILL 100 3				2				00:00 00:15 0.25 7 RIG SERVICE FUNCTION PIPE RAMS C.O 4 SECONDS			
1 BIT SUB 161 1 0.81				MDC Code				Density (kg/m ³) 1010 1010 1010				CAL CARB SUP 6 SX								2				00:15 07:00 6.75 2 DRILL 200mm HOLE FROM 851m TO 1045M			
1 TELEDRIFT 154 1 2.47				Manufacturer VAREL				Funnel Viscosity (cP) 32 34 34																07:00 08:00 1.00 50 WORK PIPE ON CONN			
1 XJO 156 1 0.36				Type VTDS13HX				Fluid Loss (cm) 0 0 0																			
1 XJO 152 1 0.34				Serial No 4001140				pH 8 8 8																			
1 MONEL 168 1 8.47				Jets (mm) 10.3 10.3 10.3 10.3				Location SHAKER SHAKER SHAKER																			
5 DC (6.25 IN) 156 58 45.58				Depth Out (m) 10.3 10.3 10.3				Depth (m) 977 895 1010																			
1 SHORT DC 166 64 4.81				Total Drilled (m) 535				PVT (m ³) 56 56 51																			
1 JARS-HYD 166 60 5.51				Hrs Run Today 6.75																							
5 DC (6.25 IN) 156 58 72.15				Cumulative Hrs Run 6.75																							
1 XJO 156 58 0.28				Entry Date 2010/02/09																							
5 HWDHP 102 55.79																											
44 Drill Pipe Stands (m) 856.60				Gage (mm) ODC																							
5 Drill Pipe Single (m) 0.00				Reason Pulled																							
Weight of DC (kg) 22 Kelly Down (m) 11.89				LDC Total Run (m/h) 12.30																							
Weight of string (kg) 36 Total (m) 1045.77				BNG																							

TOUR 2				SIGNATURE OF DRILLER				HAROLD RABY				START TIME				END TIME											
DRILLING ASSEMBLY				DRILL PIPE				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG			
No. Component OD (mm) ID (mm) Length (m)				Bit Number 2D				Mud Type Water Oil Air Other				Product Amount Type				From (m) To (m) D-R-C RPM WOB (kN)				Hole Drag Up (kN)				From To Elapsed Code			
1 BIT SUB 200 1 0.23				Size (mm) 200				Time 12:00 14:30 16:00				ALAKAPAM 1100 CODE 1007				1 5X				1045 1207 DRILL 100 3				08:00 08:15 0.25 7 RIG SERVICE, FUNCTIONED ACCUMULATOR FUNCTION TEST, START 17009/ THREE			
1 BIT SUB 161 1 0.81				MDC Code				Density (kg/m ³) 1030 1030 1030				ULTRA PAC R 4 SX												08:00 09:30 0.50 10 DEVIATION SURVEY @ 1045M M593 RUN			
1 TELEDRIFT 154 1 2.47				Manufacturer VAREL				Funnel Viscosity (cP) 35 35 38				MILLZAN 2 SX												08:30 09:30 0.50 10 DEVIATION SURVEY @ 1045M M593 RUN			
1 XJO 156 1 0.36				Type VTDS13HX				Fluid Loss (cm) 0 0 0				CAUSTIC SODA BEADS 2 SX												10:00 10:45 0.75 10 DEVIATION SURVEY @ 1053M DEV 1 DEG 310 AZM			
1 XJO 152 1 0.34				Serial No 4001140				pH 8 8 8				LIGNITE 2 SX												10:45 16:45 6.00 2 DRILL 200mm HOLE FROM 1074 TO 1168M			
1 MONEL 168 1 8.47				Jets (mm) 10.3 10.3 10.3 10.3				Location SHAKER SHAKER SHAKER				CAL CARB 325 CODE 1038 1 5X												16:45 17:00 0.25 7 RIG SERVICE, FUNCTIONED PIPE RAMS C.O 5 SECONDS			
5 DC (6.25 IN) 156 58 45.58				Depth Out (m) 1207				Depth (m) 1084 1130 1156				LIGNITE 2 SX												17:00 18:45 2.75 2 DRILL 200mm HOLE FROM 1168m TO 1207			
1 SHORT DC 166 64 4.81				Total Drilled (m) 535				PVT (m ³) 51 50 51				MTL SHURE SHALE 5 18.83												18:45 20:00 0.25 10 DEVIATION SURVEY 1184M - MISSRUN			
1 JARS-HYD 166 60 5.51				Hrs Run Today 10.25																							
5 DC (6.25 IN) 156 58 72.15				Cumulative Hrs Run 51.50																							
1 XJO 156 58 0.28				Entry Date 2010/02/09																							
5 HWDHP 102 55.79																											
43 Drill Pipe Stands (m) 818.78				Gage (mm) ODC																							
5 Drill Pipe Single (m) 0.00				Reason Pulled																							
Weight of DC (kg) 22 Kelly Down (m) 11.89				LDC Total Run (m/h) 13.08																							
Weight of string (kg) 36 Total (m) 1026.87				BNG																							

TOUR 3				SIGNATURE OF DRILLER				STEVE GENERT				START TIME				END TIME											
DRILLING ASSEMBLY				DRILL PIPE				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG			
No. Component OD (mm) ID (mm) Length (m)				Bit Number 2D				Mud Type Water Oil Air Other				Product Amount Type				From (m) To (m) D-R-C RPM WOB (kN)				Hole Drag Up (kN)				From To Elapsed Code			
1 BIT SUB 200 1 0.23				Size (mm) 200				Time 21:30 23:15				ALAKAPAM 1100 CODE 1007				1 5X				1207 1254 DRILL 100 3				20:30 20:45 0.75 2 DRILL 200mm HOLE FROM 1207m TO 1216m			
1 BIT SUB 161 1 0.81				MDC Code				Density (kg/m ³) 1030 1030 1030				ULTRA PAC HV 4 SX												20:45 21:15 0.50 10 DEVIATION SURVEY			
1 TELEDRIFT 154 1 2.47				Manufacturer VAREL				Funnel Viscosity (cP) 38 38 38				MILLZAN 2 SX												21:15 24:00 2.75 2 DRILL 200mm HOLE FROM 1216m TO 1254m			
1 XJO 156 1 0.36				Type VTDS13HX				Fluid Loss (cm) 14.0 8.0 8.0				CAL CARB 325 CODE 1038 1 5X															
1 XJO 152 1 0.34				Serial No 4001140				pH 8 8 8				SURE SHALE 1 18.83															
1 MONEL 168 1 8.47				Jets (mm) 10.3 10.3 10.3 10.3				Location SHAKER SHAKER				HUMALITE CODE 1084 8 SX															
5 DC (6.25 IN) 156 58 45.58				Depth Out (m) 1254				Depth (m) 1216 1245																			
1 SHORT DC 166 64 4.81				Total Drilled (m) 719				PVT (m ³) 51 51																			
1 JARS-HYD 166 60 5.51				Hrs Run Today 9.50																							
5 DC (6.25 IN) 156 58 72.15				Cumulative Hrs Run 56.00																							
1 XJO 156 58 0.28				Entry Date 2010/02/09																							
5 HWDHP 102 55.79																											
55 Drill Pipe Stands (m) 1044.58				Gage (mm) ODC																							
5 Drill Pipe Single (m) 0.00				Reason Pulled																							
Weight of DC (kg) 22 Kelly Down (m) 11.89				LDC Total Run (m/h) 13.07																							
Weight of string (kg) 36 Total (m) 1254.66				BNG																							



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FRONT PAGE SUMMARY				DAILY CHECKS				OP RM				FUEL @ 08:00 HOURS				DRILL PIPE				MUD PUMPS				GENERAL EQUIPMENT & SERVICES			
Tour Sheet Serial Number: 752436_20100210_1A Pason Year: 2010 Month: 02 Day: 10 Rig No.: 436 Well Name: Para et al Cameron M-74 US 200 Location: 46250 SUGAR/17723 State: NJ Unique Well ID: 300M746010117150 Kelly Building: 4				1) Daily Walk Around Inspection 2) Detailed Inspection - Weekly (Rig Check List) 3) H2S Signs Posted if Required 4) New Lube & Stock Diagram Posted 5) Flow Lines Checked 6) BOP Drive Performed 7) Visually Inspected BOPs - Flare Lines & Progressor Lines 8) Rig Site Health & Safety Meeting (one/week/month) 9) CADC Rig Safety Inspection Checklist (one/Mo/Year) 10) Mast Inspection before Raising or Lowering 11) Crown Saver Checked 12) Master Valve Checked				Weather: Time: _____ Temp: _____ Current Conditions: _____ Wind Direction: _____ Wind Strength: _____ Road Condition: _____				Category: _____ Thread Type: _____ Grade: _____ OD (mm): _____ ID (mm): _____ Linear Mass (kg/m): _____ No. of Joints: _____ Tool Joint OD (mm): _____				No.: _____ Make: _____ Stroke Length (mm): _____				Description: _____ Hours: _____							
License No.: 1221 Operator: PARAMOUNT RESOURCES LTD Contractor's AFE: _____ Operator's Signature: JOHN WILLIAMS Signature of Operator Representative: _____ Signature of Contractor's Rig manager: DUKE MEHLHAFF				Contract No.: _____ Contractor's Job No.: _____ Well Type: VERT Spool Date: 2010/01/17 Start Time: 07:30 End Time: _____ Release Date: _____				Casing: Category: _____ Make: _____ Grade: _____ OD (mm): _____ ID (mm): _____ Linear Mass (kg/m): _____ No. of Joints: _____ Total Length (m): _____ KB to CSG Head (m): _____ KB to CSG Bottom (m): _____				SHALE SHAKERS: No.: _____ Top Screen: _____ Middle Screen: _____ Middle Screen: _____ Bottom Screen: _____ Size: _____ Changed: _____ New: _____ Size: _____ Changed: _____ New: _____ Size: _____ Changed: _____ New: _____ Size: _____ Changed: _____ New: _____															

TOUR 1				SIGNATURE OF DRILLER				STEVE GENERT				START TIME				END TIME											
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG			
No. Component OD (mm) ID (mm) Length (m) Drill Pipe Stands (m) Drill Pipe Singles (m) Weight of DC (kda) Kelly Down (m) Weight of string (kda) Total (m)				Bit Number: _____ Size (mm): _____ MDC Code: _____ Manufacturer: _____ Type: _____ Serial No: _____ Jaws (mm): _____ Depth Out (m): _____ Depth In (m): _____ Total Drilled (m): _____ Hrs Run Today: _____ Cumulative Hrs Run: _____ Entry Date: _____ Gauge (mm): _____ ODC: _____ Reason Pulled: _____ Total Run (m/hr): _____ MDC: _____ LGC: _____ BRG: _____				Mud Type: _____ Water: _____ Oil: _____ Other: _____ Time: _____ Density (kg/m³): _____ Funnel Viscosity (cP): _____ Fluid Loss (cm): _____ pH: _____ Location: _____ Depth (m): _____ PVT (m³): _____ SOLIDS CONTROL Equipment Name: _____ Hours Run: _____ Intake Density (kg/m³): _____ Over Flow Density (kg/m³): _____ Under Flow Density (kg/m³): _____ SAFETY Safety Topic: _____ MEHL (kda) MACP (kda)				Product: _____ Amount: _____ Type: _____ REDUCED PUMP SPEED No. Pressure (kpa) Strokes/min Depth (m) CIRCULATION Pump Type: _____ Line Size (mm) GPM Pressure (kpa) Hours Run DEVIATION SURVEYS Time Depth (m) Deviation (Direction) Type Remarks:				From (m) To (m) D-R-C RPM WOB (kda) REDUCED PUMP SPEED No. Pressure (kpa) Strokes/min Depth (m) CIRCULATION Pump Type: _____ Line Size (mm) GPM Pressure (kpa) Hours Run DEVIATION SURVEYS Time Depth (m) Deviation (Direction) Type Remarks:				Hole Drag Up (kda) _____ Hole Drag Down (kda) _____ Torque at Bottom (Nm) _____ Fill on Bottom (m) _____ No. Hours Run pH Stack Temp (°C) DEVIATION SURVEYS Time Depth (m) Deviation (Direction) Type Remarks:				From To Elapsed Code Details of Operations in Sequence & Remarks			

TOUR 2				SIGNATURE OF DRILLER				HAROLD RABY				START TIME				END TIME											
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG			
No. Component OD (mm) ID (mm) Length (m) Drill Pipe Stands (m) Drill Pipe Singles (m) Weight of DC (kda) Kelly Down (m) Weight of string (kda) Total (m)				Bit Number: _____ Size (mm): _____ MDC Code: _____ Manufacturer: _____ Type: _____ Serial No: _____ Jaws (mm): _____ Depth Out (m): _____ Depth In (m): _____ Total Drilled (m): _____ Hrs Run Today: _____ Cumulative Hrs Run: _____ Entry Date: _____ Gauge (mm): _____ ODC: _____ Reason Pulled: _____ Total Run (m/hr): _____ MDC: _____ LGC: _____ BRG: _____				Mud Type: _____ Water: _____ Oil: _____ Other: _____ Time: 15:00 Density (kg/m³): 1030 Funnel Viscosity (cP): 47 Fluid Loss (cm): 9.5 pH: _____ Location: SHAKER Depth (m): 1404 PVT (m³): 52 SOLIDS CONTROL Equipment Name: _____ Hours Run: _____ Intake Density (kg/m³): _____ Over Flow Density (kg/m³): _____ Under Flow Density (kg/m³): _____ SAFETY Safety Topic: _____ MEHL (kda) MACP (kda)				Product: _____ Amount: _____ Type: _____ REDUCED PUMP SPEED No. Pressure (kpa) Strokes/min Depth (m) CIRCULATION Pump Type: _____ Line Size (mm) GPM Pressure (kpa) Hours Run DEVIATION SURVEYS Time Depth (m) Deviation (Direction) Type Remarks:				From (m) To (m) D-R-C RPM WOB (kda) REDUCED PUMP SPEED No. Pressure (kpa) Strokes/min Depth (m) CIRCULATION Pump Type: _____ Line Size (mm) GPM Pressure (kpa) Hours Run DEVIATION SURVEYS Time Depth (m) Deviation (Direction) Type Remarks:				Hole Drag Up (kda) _____ Hole Drag Down (kda) _____ Torque at Bottom (Nm) _____ Fill on Bottom (m) _____ No. Hours Run pH Stack Temp (°C) DEVIATION SURVEYS Time Depth (m) Deviation (Direction) Type Remarks:				From To Elapsed Code Details of Operations in Sequence & Remarks			

TOUR 3				SIGNATURE OF DRILLER				MIKE KEMICK				START TIME				END TIME											
DRILLING ASSEMBLY				BITS				MUD RECORD				MUD MATERIALS ADDED				METRES DRILLED				HOLE CONDITION				TIME LOG			
No. Component OD (mm) ID (mm) Length (m) Drill Pipe Stands (m) Drill Pipe Singles (m) Weight of DC (kda) Kelly Down (m) Weight of string (kda) Total (m)				Bit Number: _____ Size (mm): _____ MDC Code: _____ Manufacturer: _____ Type: _____ Serial No: _____ Jaws (mm): _____ Depth Out (m): _____ Depth In (m): _____ Total Drilled (m): _____ Hrs Run Today: _____ Cumulative Hrs Run: _____ Entry Date: _____ Gauge (mm): _____ ODC: _____ Reason Pulled: _____ Total Run (m/hr): _____ MDC: _____ LGC: _____ BRG: _____				Mud Type: _____ Water: _____ Oil: _____ Other: _____ Time: _____ Density (kg/m³): _____ Funnel Viscosity (cP): _____ Fluid Loss (cm): _____ pH: _____ Location: _____ Depth (m): _____ PVT (m³): _____ SOLIDS CONTROL Equipment Name: _____ Hours Run: _____ Intake Density (kg/m³): _____ Over Flow Density (kg/m³): _____ Under Flow Density (kg/m³): _____ SAFETY Safety Topic: _____ MEHL (kda) MACP (kda)				Product: _____ Amount: _____ Type: _____ REDUCED PUMP SPEED No. Pressure (kpa) Strokes/min Depth (m) CIRCULATION Pump Type: _____ Line Size (mm) GPM Pressure (kpa) Hours Run DEVIATION SURVEYS Time Depth (m) Deviation (Direction) Type Remarks:				From (m) To (m) D-R-C RPM WOB (kda) REDUCED PUMP SPEED No. Pressure (kpa) Strokes/min Depth (m) CIRCULATION Pump Type: _____ Line Size (mm) GPM Pressure (kpa) Hours Run DEVIATION SURVEYS Time Depth (m) Deviation (Direction) Type Remarks:				Hole Drag Up (kda) _____ Hole Drag Down (kda) _____ Torque at Bottom (Nm) _____ Fill on Bottom (m) _____ No. Hours Run pH Stack Temp (°C) DEVIATION SURVEYS Time Depth (m) Deviation (Direction) Type Remarks:				From To Elapsed Code Details of Operations in Sequence & Remarks			



[illegible]

FRONT PAGE SUMMARY										DAILY CHECKS										OP RM										FUEL @ 08:00 HOURS										DRILL PIPE										MUD PUMPS										GENERAL EQUIPMENT & SERVICES																																																	
Four Sheet Serial Number DYS2436_20100212_1A										Vendor Software Version Pason										Year 2010										Month 02										Day 12										Rig No. 436										Well Name Para et al Cameron M-74 US acre										Surface Location 44°55'54.00N/117°28'19.00W										Flow NT										Unique Well ID 300M746010117150										Kelly Running 4									
Operator 1221 PARAMOUNT RESOURCES LTD Operator's AFE Signature of Operator Representative JOHN WILLIAMS										Contractor PRECISION DRILLING, DIV OF PDC Contractor's Job No 630 Signature of Contractor's Rig manager DUKE MEHLHAFF										Well Type VERT Spud Date 2010/01/17 Rig Release Date Time										Weather Time Temp Current Conditions Wind Direction Wind Strength Read Condition										CASING Category Moisture Grade OD (mm) ID (mm) Linear Mass (kg/m) No. of Joints Total Length (m) K9 to CSG Head (m) K9 to CSG Bottom (m)										SHALE SHAKERS No. Size Top Screen Middle Screen Bottom Screen Size Changed New Size Changed New Size Changed New Size Changed New																																																											
TOUR 1 DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) BITS Bit Number 200 Size (mm) ADC Code Manufacturer VAREL Type VTD513HX Serial No 4001140 Jaws (mm) 10.3 10.3 10.3 10.3 Depth Out (m) 1454 Depth In (m) 535 Total Drilled (m) 919 Hrs Run Today 10.50 Cumulative Hrs Run 72.50 Entry Date 2010/02/10 DULL GRADE T ₁ Gauge (mm) T ₂ ODC MDC Reason Pulled LDC Total Run (m/hr) BNC										SIGNATURE OF DRILLER HAROLD RABY MUD RECORD Mud Type Water Oil Other Time Density (kg/m³) Funnel Viscosity (cP) Fluid Loss (cm) pH Location Depth (m) PVT (m) SOLIDS CONTROL Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³) SAFETY Safety Topic MEHL (SubM) MACP (SubM)										MUD MATERIALS ADDED Product Amount Type METRES DRILLED From (m) To (m) D-R-C RPM WOB (kdaN) REDUCED PUMP SPEED No. Pressure (kpa) Strokes/min Depth (m) CIRCULATION Pump Type Liner Size (mm) SPM Pressure (kpa) Hours Run HOLE CONDITION Hole Drag Up (kdaN) Hole Drag Down (kdaN) Torque at Bottom (Nm) Fill on Bottom (m) BOILER No. Hours Run pH Stack Temp (°C) DEVIATION SURVEYS Time Depth (m) Deviation Direction Type TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks Remarks:																																																																																									
TOUR 2 DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) BITS Bit Number Size (mm) ADC Code Manufacturer Type Serial No Jaws (mm) Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date DULL GRADE T ₁ Gauge (mm) T ₂ ODC MDC Reason Pulled LDC Total Run (m/hr) BNC										SIGNATURE OF DRILLER MIKE KEMICK MUD RECORD Mud Type Water Oil Other Time Density (kg/m³) Funnel Viscosity (cP) Fluid Loss (cm) pH Location Depth (m) PVT (m) SOLIDS CONTROL Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³) SAFETY Safety Topic MEHL (SubM) MACP (SubM)										MUD MATERIALS ADDED Product Amount Type METRES DRILLED From (m) To (m) D-R-C RPM WOB (kdaN) REDUCED PUMP SPEED No. Pressure (kpa) Strokes/min Depth (m) CIRCULATION Pump Type Liner Size (mm) SPM Pressure (kpa) Hours Run HOLE CONDITION Hole Drag Up (kdaN) Hole Drag Down (kdaN) Torque at Bottom (Nm) Fill on Bottom (m) BOILER No. Hours Run pH Stack Temp (°C) DEVIATION SURVEYS Time Depth (m) Deviation Direction Type TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks Remarks:																																																																																									
TOUR 3 DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) BITS Bit Number Size (mm) ADC Code Manufacturer Type Serial No Jaws (mm) Depth Out (m) Depth In (m) Total Drilled (m) Hrs Run Today Cumulative Hrs Run Entry Date DULL GRADE T ₁ Gauge (mm) T ₂ ODC MDC Reason Pulled LDC Total Run (m/hr) BNC										SIGNATURE OF DRILLER HAROLD RABY MUD RECORD Mud Type Water Oil Other Time Density (kg/m³) Funnel Viscosity (cP) Fluid Loss (cm) pH Location Depth (m) PVT (m) SOLIDS CONTROL Equipment Name Hours Run Intake Density (kg/m³) Over Flow Density (kg/m³) Under Flow Density (kg/m³) SAFETY Safety Topic MEHL (SubM) MACP (SubM)										MUD MATERIALS ADDED Product Amount Type METRES DRILLED From (m) To (m) D-R-C RPM WOB (kdaN) REDUCED PUMP SPEED No. Pressure (kpa) Strokes/min Depth (m) CIRCULATION Pump Type Liner Size (mm) SPM Pressure (kpa) Hours Run HOLE CONDITION Hole Drag Up (kdaN) Hole Drag Down (kdaN) Torque at Bottom (Nm) Fill on Bottom (m) BOILER No. Hours Run pH Stack Temp (°C) DEVIATION SURVEYS Time Depth (m) Deviation Direction Type TIME LOG From To Elapsed Code Details of Operations in Sequence & Remarks Remarks:																																																																																									

FRONT PAGE SUMMARY				DAILY CHECKS				FUEL @ 08:00 HOURS				DRILL PIPE				MUD PUMPS				GENERAL EQUIPMENT & SERVICES			
Tour Sheet Serial Number: 0752436_20100213_14Pason Vendor Software Version: 2010 02 13 Rig No.: 436 Well Name: Para et al Cameron M-74 Location: 46033 (46034/1738) Operator: Para et al Cameron M-74 License No.: 1221 Operator: PARAMOUNT RESOURCES LTD. Operator's AFE: 030 Signature of Operator Representative: JOHN WILLIAMS Signature of Contractor's Rig Manager: DUKE MEHLHAFF				1) Daily Well Around Inspection 2) Detailed Inspection - Weekly Rigging Check Log 3) HSS Slips Perished & Reamed 4) Well Log/Log & Stock Diagram Perished 5) Flow Lines Checked 6) BOP Pre-Inspected 7) Visually Inspected BOPs - Flow Lines & Discharge Lines				Fuel Type: Rig Fuel: 0 Weather: Clear Temp: -15 Current Conditions: CLEAR Wind Direction: N Wind Strength: UP TO 19 KM/H Road Condition: FAIR				Category: Thread Type: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Tool Joint OD (mm): 4.5XH DC 156 56 122.3200 16 156.00 4FH HWD 133 62 41.6000 16 133.00 4FH SSPS 133 85 23.3000 205 133.00				No.: Make: Stroke Length (mm): 1 EMSCO 2 EMSCO				Description: Hours: LOADER 0.00 CREW TRUCK 0.00			
Contract No.: 1221 Contractor: PRECISION DRILLING, DIV OF PDC Contractor's Job No.: 530 Start Date: 2010/01/17 End Date: 07-30 Signature of Contractor's Rig Manager: DUKE MEHLHAFF Date: 2010/02/14 Time: 08:00				Well Type: Re-Entry VERY: ☐ Spud Date: ☐ 2010/01/17 07:30 Rig Release Date: 2010/02/14 08:00				Category: Make: Grade: OD (mm): ID (mm): Linear Mass (kg/m): No. of Joints: Total Length (m): X3 to CSG Head (m): X3 to CSG Bottom (m): SURFACE LKSDS J-55 218 206 35.72 28 373 4 373				No.: Top Screen: Middle Screen: Middle Screen: Bottom Screen: 1 120 84 84 84											

TOUR 1												TOUR 2											
DRILLING ASSEMBLY												DRILLING ASSEMBLY											
No. Component OD (mm) ID (mm) Length (m) 1 BIT 200 1 0.23 1 BIT SUB 161 1 0.01 5 DC (6.25 IN) 156 56 45.58 1 SHORT DC 196 84 4.81 1 JARS-HYD 196 62 5.61 6 DC (6.25 IN) 156 56 72.15 1 XJO 156 56 0.29 6 HWD 102 56 55.70												No. Component OD (mm) ID (mm) Length (m) 1 BIT 200 1 0.23 1 BIT SUB 161 1 0.01 5 DC (6.25 IN) 156 56 45.58 1 SHORT DC 196 84 4.81 1 JARS-HYD 196 62 5.61 6 DC (6.25 IN) 156 56 72.15 1 XJO 156 56 0.29 6 HWD 102 56 55.70											
BITS												BITS											
Bit Number: 200 Size (mm): 200 MDC Code: 4 4 7 Manufacturer: HEBBURN Type: HE18MRV Serial No: 250659 Jaws (mm): 14.3 14.3 14.3 Depth Out (m): 1473 Depth In (m): 1473 Total Drilled (m): 0 New Run Today: 0 Cumulative New Run: 0.00 Entry Date: 2010/02/11												Bit Number: 200 Size (mm): 200 MDC Code: 4 4 7 Manufacturer: HEBBURN Type: HE18MRV Serial No: 250659 Jaws (mm): 14.3 14.3 14.3 Depth Out (m): 1473 Depth In (m): 1473 Total Drilled (m): 0 New Run Today: 0 Cumulative New Run: 0.00 Entry Date: 2010/02/11											
MUD RECORD												MUD RECORD											
Mud Type: Water ☐ Oil ☐ Other ☐ Time: 03:30 Density (kg/m³): 1060 Funnel Viscosity (cP): 65 Fluid Loss (cm): 0 Location: SHAKER Depth (m): 1487 PVT (m): 52												Mud Type: Water ☐ Oil ☐ Other ☐ Time: 03:30 Density (kg/m³): 1060 Funnel Viscosity (cP): 65 Fluid Loss (cm): 0 Location: SHAKER Depth (m): 1487 PVT (m): 52											
MUD MATERIALS ADDED												MUD MATERIALS ADDED											
Product: Amount: Type: 1431 1436 REAM 100 2 1451 1473 REAM 100 2												Product: Amount: Type: 1431 1436 REAM 100 2 1451 1473 REAM 100 2											
SOLIDS CONTROL												SOLIDS CONTROL											
Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): 1 120 84 84 84												Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): 1 120 84 84 84											
SAFETY												SAFETY											
Safety Topic: MEHL (Initials) MACP (Initials) LAYING DOWN PIPE 54 2917												Safety Topic: MEHL (Initials) MACP (Initials) LAYING DOWN PIPE 54 2917											
TIME LOG												TIME LOG											
From: To: Elapsed: Code: Details of Operations in Sequence & Remarks 00:00 01:45 1.75 6 TRIPS, RH, FC @ 735M AND FILA PIPE 01:45 03:15 1.50 3 REAMING 1431 TO 1436 WASH TO BOTTOM FROM 1451M 03:15 03:30 0.25 7 RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS 03:30 03:45 0.25 5 CIRCULATE HOLE CLEAN 03:45 08:00 4.25 8 TRIPS, LAY DOWN STRING FC @ 1467, 1396, 735, 129.0M												From: To: Elapsed: Code: Details of Operations in Sequence & Remarks 00:00 01:45 1.75 6 TRIPS, RH, FC @ 735M AND FILA PIPE 01:45 03:15 1.50 3 REAMING 1431 TO 1436 WASH TO BOTTOM FROM 1451M 03:15 03:30 0.25 7 RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS 03:30 03:45 0.25 5 CIRCULATE HOLE CLEAN 03:45 08:00 4.25 8 TRIPS, LAY DOWN STRING FC @ 1467, 1396, 735, 129.0M											

TOUR 3												TOUR 4											
DRILLING ASSEMBLY												DRILLING ASSEMBLY											
No. Component OD (mm) ID (mm) Length (m) 1 BIT 200 1 0.23 1 BIT SUB 161 1 0.01 5 DC (6.25 IN) 156 56 45.58 1 SHORT DC 196 84 4.81 1 JARS-HYD 196 62 5.61 6 DC (6.25 IN) 156 56 72.15 1 XJO 156 56 0.29 6 HWD 102 56 55.70												No. Component OD (mm) ID (mm) Length (m) 1 BIT 200 1 0.23 1 BIT SUB 161 1 0.01 5 DC (6.25 IN) 156 56 45.58 1 SHORT DC 196 84 4.81 1 JARS-HYD 196 62 5.61 6 DC (6.25 IN) 156 56 72.15 1 XJO 156 56 0.29 6 HWD 102 56 55.70											
BITS												BITS											
Bit Number: 200 Size (mm): 200 MDC Code: 4 4 7 Manufacturer: HEBBURN Type: HE18MRV Serial No: 250659 Jaws (mm): 14.3 14.3 14.3 Depth Out (m): 1473 Depth In (m): 1473 Total Drilled (m): 0 New Run Today: 0 Cumulative New Run: 0.00 Entry Date: 2010/02/11												Bit Number: 200 Size (mm): 200 MDC Code: 4 4 7 Manufacturer: HEBBURN Type: HE18MRV Serial No: 250659 Jaws (mm): 14.3 14.3 14.3 Depth Out (m): 1473 Depth In (m): 1473 Total Drilled (m): 0 New Run Today: 0 Cumulative New Run: 0.00 Entry Date: 2010/02/11											
MUD RECORD												MUD RECORD											
Mud Type: Water ☐ Oil ☐ Other ☐ Time: 03:30 Density (kg/m³): 1060 Funnel Viscosity (cP): 65 Fluid Loss (cm): 0 Location: SHAKER Depth (m): 1487 PVT (m): 52												Mud Type: Water ☐ Oil ☐ Other ☐ Time: 03:30 Density (kg/m³): 1060 Funnel Viscosity (cP): 65 Fluid Loss (cm): 0 Location: SHAKER Depth (m): 1487 PVT (m): 52											
MUD MATERIALS ADDED												MUD MATERIALS ADDED											
Product: Amount: Type: 1431 1436 REAM 100 2 1451 1473 REAM 100 2												Product: Amount: Type: 1431 1436 REAM 100 2 1451 1473 REAM 100 2											
SOLIDS CONTROL												SOLIDS CONTROL											
Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): 1 120 84 84 84												Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): 1 120 84 84 84											
SAFETY												SAFETY											
Safety Topic: MEHL (Initials) MACP (Initials) RUN CASING 34 2903												Safety Topic: MEHL (Initials) MACP (Initials) RUN CASING 34 2903											
TIME LOG												TIME LOG											
From: To: Elapsed: Code: Details of Operations in Sequence & Remarks 00:00 01:45 1.75 6 TRIPS, RH, FC @ 735M AND FILA PIPE 01:45 03:15 1.50 3 REAMING 1431 TO 1436 WASH TO BOTTOM FROM 1451M 03:15 03:30 0.25 7 RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS 03:30 03:45 0.25 5 CIRCULATE HOLE CLEAN 03:45 08:00 4.25 8 TRIPS, LAY DOWN STRING FC @ 1467, 1396, 735, 129.0M												From: To: Elapsed: Code: Details of Operations in Sequence & Remarks 00:00 01:45 1.75 6 TRIPS, RH, FC @ 735M AND FILA PIPE 01:45 03:15 1.50 3 REAMING 1431 TO 1436 WASH TO BOTTOM FROM 1451M 03:15 03:30 0.25 7 RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS 03:30 03:45 0.25 5 CIRCULATE HOLE CLEAN 03:45 08:00 4.25 8 TRIPS, LAY DOWN STRING FC @ 1467, 1396, 735, 129.0M											

TOUR 5												TOUR 6											
DRILLING ASSEMBLY												DRILLING ASSEMBLY											
No. Component OD (mm) ID (mm) Length (m) 1 BIT 200 1 0.23 1 BIT SUB 161 1 0.01 5 DC (6.25 IN) 156 56 45.58 1 SHORT DC 196 84 4.81 1 JARS-HYD 196 62 5.61 6 DC (6.25 IN) 156 56 72.15 1 XJO 156 56 0.29 6 HWD 102 56 55.70												No. Component OD (mm) ID (mm) Length (m) 1 BIT 200 1 0.23 1 BIT SUB 161 1 0.01 5 DC (6.25 IN) 156 56 45.58 1 SHORT DC 196 84 4.81 1 JARS-HYD 196 62 5.61 6 DC (6.25 IN) 156 56 72.15 1 XJO 156 56 0.29 6 HWD 102 56 55.70											
BITS												BITS											
Bit Number: 200 Size (mm): 200 MDC Code: 4 4 7 Manufacturer: HEBBURN Type: HE18MRV Serial No: 250659 Jaws (mm): 14.3 14.3 14.3 Depth Out (m): 1473 Depth In (m): 1473 Total Drilled (m): 0 New Run Today: 0 Cumulative New Run: 0.00 Entry Date: 2010/02/11												Bit Number: 200 Size (mm): 200 MDC Code: 4 4 7 Manufacturer: HEBBURN Type: HE18MRV Serial No: 250659 Jaws (mm): 14.3 14.3 14.3 Depth Out (m): 1473 Depth In (m): 1473 Total Drilled (m): 0 New Run Today: 0 Cumulative New Run: 0.00 Entry Date: 2010/02/11											
MUD RECORD												MUD RECORD											
Mud Type: Water ☐ Oil ☐ Other ☐ Time: 03:30 Density (kg/m³): 1060 Funnel Viscosity (cP): 65 Fluid Loss (cm): 0 Location: SHAKER Depth (m): 1487 PVT (m): 52												Mud Type: Water ☐ Oil ☐ Other ☐ Time: 03:30 Density (kg/m³): 1060 Funnel Viscosity (cP): 65 Fluid Loss (cm): 0 Location: SHAKER Depth (m): 1487 PVT (m): 52											
MUD MATERIALS ADDED												MUD MATERIALS ADDED											
Product: Amount: Type: 1431 1436 REAM 100 2 1451 1473 REAM 100 2												Product: Amount: Type: 1431 1436 REAM 100 2 1451 1473 REAM 100 2											
SOLIDS CONTROL												SOLIDS CONTROL											
Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): 1 120 84 84 84												Equipment Name: Hours Run: Intake Density (kg/m³): Over Flow Density (kg/m³): Under Flow Density (kg/m³): 1 120 84 84 84											
SAFETY												SAFETY											
Safety Topic: MEHL (Initials) MACP (Initials) CEMENTING 34 2903												Safety Topic: MEHL (Initials) MACP (Initials) CEMENTING 34 2903											
TIME LOG												TIME LOG											
From: To: Elapsed: Code: Details of Operations in Sequence & Remarks 00:00 01:45 1.75 6 TRIPS, RH, FC @ 735M AND FILA PIPE 01:45 03:15 1.50 3 REAMING 1431 TO 1436 WASH TO BOTTOM FROM 1451M 03:15 03:30 0.25 7 RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS 03:30 03:45 0.25 5 CIRCULATE HOLE CLEAN 03:45 08:00 4.25 8 TRIPS, LAY DOWN STRING FC @ 1467, 1396, 735, 129.0M												From: To: Elapsed: Code: Details of Operations in Sequence & Remarks 00:00 01:45 1.75 6 TRIPS, RH, FC @ 735M AND FILA PIPE 01:45 03:15 1.50 3 REAMING 1431 TO 1436 WASH TO BOTTOM FROM 1451M 03:15 03:30 0.25 7 RIG SERVICE, FUNCTIONED PIPE RAMS C/O 5 SECONDS 03:30 03:45 0.25 5 CIRCULATE HOLE CLEAN 03:45 08:00 4.25 8 TRIPS, LAY DOWN STRING FC @ 1467, 1396, 735, 129.0M											

FRONT PAGE SUMMARY										DAILY CHECKS										FUEL @ 08:00 HOURS										DRILL PIPE										MUD PUMPS										GENERAL EQUIPMENT & SERVICES									
Your Sheet Serial Number: 2552436_20100214_1A Vendor Software Version: 2010 02 14 Rig No.: 438 Well Name: Para et al Cameron M-74 Surface Location: 28 53 44.80N 117 28 15.80W Flow (ton Type): JNT Unique Well ID: 300M746010117150 4 Well Licence & Stock Diagram Posted 5 Core Lines Shared 6 BOP Data Performed 7 Visually Inspected BOPs - Flare Lines & Bopass Lines License No.: 1221 Operator: PARAMOUNT RESOURCES LTD Operator's AFE: 896010005 Signature of Operator Representative: JOHN WILLIAMS Contractor: DUKE MEHLHAFF Contractor's Job No: 20100214 Start Date: 2010/02/14 Time: 08:00 Day: 02 Month: 02 Year: 2010										1 Daily Visual Around Inspection 2 Detailed Inspection - Visually Along Check List 3 H2S Status Posted if Required 4 Well Licence & Stock Diagram Posted 5 Core Lines Shared 6 BOP Data Performed 7 Visually Inspected BOPs - Flare Lines & Bopass Lines OP RM: JW DM JW DM JW DM JW DM JW DM JW DM JW DM										Fuel Type: BQ Fuel Grade: 67 Fuel Quantity: 0 Fuel Unit: On Fuel Weather: Time 08:00 Temp: -15 Current Conditions: CLEAR Wind Direction: N Wind Strength: UP TO 19 KMPH Road Condition: FAIR										Category: 4.5XH DC Thread Type: 4FH Grade: 158 OD (mm): 133 ID (mm): 65 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Total Length (m): 158.00 Tool Joint OD (mm): 133.00										No.: 1 Make: EMSCO Stroke Length (mm): 158.00 No.: 2 Make: EMSCO Stroke Length (mm): 158.00										Description: LOADER Hours: 0.00 Description: CREW TRUCK Hours: 0.00									
License No.: 1221 Operator: PARAMOUNT RESOURCES LTD Operator's AFE: 896010005 Signature of Operator Representative: JOHN WILLIAMS Contractor: DUKE MEHLHAFF Contractor's Job No: 20100214 Start Date: 2010/02/14 Time: 08:00 Day: 02 Month: 02 Year: 2010										1 Rig Site Health & Safety Meeting (pre/crow/month) 2 CAHSG Rig Safety Inspection Check List (one/tw/month) 3 Mass Inspection before Raising or Lowering 4 Crown Saver Checked 5 Master Mils Checked DM DM DM DM										Fuel Type: BQ Fuel Grade: 67 Fuel Quantity: 0 Fuel Unit: On Fuel Weather: Time 08:00 Temp: -15 Current Conditions: CLEAR Wind Direction: N Wind Strength: UP TO 19 KMPH Road Condition: FAIR										Category: 4.5XH DC Thread Type: 4FH Grade: 158 OD (mm): 133 ID (mm): 65 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Total Length (m): 158.00 Tool Joint OD (mm): 133.00										No.: 1 Make: EMSCO Stroke Length (mm): 158.00 No.: 2 Make: EMSCO Stroke Length (mm): 158.00										Description: LOADER Hours: 0.00 Description: CREW TRUCK Hours: 0.00									
License No.: 1221 Operator: PARAMOUNT RESOURCES LTD Operator's AFE: 896010005 Signature of Operator Representative: JOHN WILLIAMS Contractor: DUKE MEHLHAFF Contractor's Job No: 20100214 Start Date: 2010/02/14 Time: 08:00 Day: 02 Month: 02 Year: 2010										1 Rig Site Health & Safety Meeting (pre/crow/month) 2 CAHSG Rig Safety Inspection Check List (one/tw/month) 3 Mass Inspection before Raising or Lowering 4 Crown Saver Checked 5 Master Mils Checked DM DM DM DM										Fuel Type: BQ Fuel Grade: 67 Fuel Quantity: 0 Fuel Unit: On Fuel Weather: Time 08:00 Temp: -15 Current Conditions: CLEAR Wind Direction: N Wind Strength: UP TO 19 KMPH Road Condition: FAIR										Category: 4.5XH DC Thread Type: 4FH Grade: 158 OD (mm): 133 ID (mm): 65 Linear Mass (kg/m): 122.3200 No. of Joints: 16 Total Length (m): 158.00 Tool Joint OD (mm): 133.00										No.: 1 Make: EMSCO Stroke Length (mm): 158.00 No.: 2 Make: EMSCO Stroke Length (mm): 158.00										Description: LOADER Hours: 0.00 Description: CREW TRUCK Hours: 0.00									

TOUR 1										TOUR 2										TOUR 3									
SIGNATURE OF DRILLER HAROLD RABY										SIGNATURE OF DRILLER MIKE KEMICK										SIGNATURE OF DRILLER HAROLD RABY									
START TIME: 08:00 END TIME: 08:00										START TIME: 08:00 END TIME: 20:00										START TIME: 20:00 END TIME: 24:00									
DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) Drill Pipe 158 150 10.00 Drill Pipe 158 150 10.00 Weight of DC (kg) 158 150 10.00 Weight of string (kg) 158 150 10.00										DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) Drill Pipe 158 150 10.00 Drill Pipe 158 150 10.00 Weight of DC (kg) 158 150 10.00 Weight of string (kg) 158 150 10.00										DRILLING ASSEMBLY No. Component OD (mm) ID (mm) Length (m) Drill Pipe 158 150 10.00 Drill Pipe 158 150 10.00 Weight of DC (kg) 158 150 10.00 Weight of string (kg) 158 150 10.00									
BITS Bit Number: 1 Size (mm): 158 WDC Code: 158 Manufacturer: 158 Type: 158 Serial No: 158 Jct (mm): 158 Depth Out (m): 158 Depth In (m): 158 Total Drilled (m): 158 Hrs Run Today: 158 Cumulative Hrs Run: 158 Entry Date: 158										BITS Bit Number: 1 Size (mm): 158 WDC Code: 158 Manufacturer: 158 Type: 158 Serial No: 158 Jct (mm): 158 Depth Out (m): 158 Depth In (m): 158 Total Drilled (m): 158 Hrs Run Today: 158 Cumulative Hrs Run: 158 Entry Date: 158										BITS Bit Number: 1 Size (mm): 158 WDC Code: 158 Manufacturer: 158 Type: 158 Serial No: 158 Jct (mm): 158 Depth Out (m): 158 Depth In (m): 158 Total Drilled (m): 158 Hrs Run Today: 158 Cumulative Hrs Run: 158 Entry Date: 158									
MUD RECORD Mud Type: Water Density (kg/m³): 1000 Funnel Viscosity (cP): 100 Fluid Loss (cm³): 100 pH: 100 Location: 100 Depth (m): 100 PVT (m³): 100										MUD RECORD Mud Type: Water Density (kg/m³): 1000 Funnel Viscosity (cP): 100 Fluid Loss (cm³): 100 pH: 100 Location: 100 Depth (m): 100 PVT (m³): 100										MUD RECORD Mud Type: Water Density (kg/m³): 1000 Funnel Viscosity (cP): 100 Fluid Loss (cm³): 100 pH: 100 Location: 100 Depth (m): 100 PVT (m³): 100									
MUD MATERIALS ADDED Product: 100 Amount: 100 Type: 100										MUD MATERIALS ADDED Product: 100 Amount: 100 Type: 100										MUD MATERIALS ADDED Product: 100 Amount: 100 Type: 100									
SOLIDS CONTROL Equipment Name: 100 Hours Run: 100 Inlet Density (kg/m³): 100 Over Flow Density (kg/m³): 100 Under Flow Density (kg/m³): 100										SOLIDS CONTROL Equipment Name: 100 Hours Run: 100 Inlet Density (kg/m³): 100 Over Flow Density (kg/m³): 100 Under Flow Density (kg/m³): 100										SOLIDS CONTROL Equipment Name: 100 Hours Run: 100 Inlet Density (kg/m³): 100 Over Flow Density (kg/m³): 100 Under Flow Density (kg/m³): 100									
SAFETY Safety Topic: 100 MEHL (kg/m³): 100 MACP (kg/m³): 100										SAFETY Safety Topic: 100 MEHL (kg/m³): 100 MACP (kg/m³): 100										SAFETY Safety Topic: 100 MEHL (kg/m³): 100 MACP (kg/m³): 100									
METRES DRILLED From (m): 100 To (m): 100 D-R-C: 100 RPM: 100 WOB (kdaN): 100										METRES DRILLED From (m): 100 To (m): 100 D-R-C: 100 RPM: 100 WOB (kdaN): 100										METRES DRILLED From (m): 100 To (m): 100 D-R-C: 100 RPM: 100 WOB (kdaN): 100									
HOLE CONDITION Hole Drag Up (kdaN): 100 Hole Drag Down (kdaN): 100 Torque at Bottom (Nm): 100 Fill on Bottom (m): 100										HOLE CONDITION Hole Drag Up (kdaN): 100 Hole Drag Down (kdaN): 100 Torque at Bottom (Nm): 100 Fill on Bottom (m): 100										HOLE CONDITION Hole Drag Up (kdaN): 100 Hole Drag Down (kdaN): 100 Torque at Bottom (Nm): 100 Fill on Bottom (m): 100									
REDUCED PUMP SPEED No. Pressure (kg) Strokes/min Depth (m) 1 100 100 100										REDUCED PUMP SPEED No. Pressure (kg) Strokes/min Depth (m) 1 100 100 100										REDUCED PUMP SPEED No. Pressure (kg) Strokes/min Depth (m) 1 100 100 100									
CIRCULATION Pump Type: 100 Line Size (mm): 100 GPM: 100 Pressure (kg): 100 Hours Run: 100										CIRCULATION Pump Type: 100 Line Size (mm): 100 GPM: 100 Pressure (kg): 100 Hours Run: 100										CIRCULATION Pump Type: 100 Line Size (mm): 100 GPM: 100 Pressure (kg): 100 Hours Run: 100									
BOILER No. Hours Run pH Stack Temp (°C) 1 100 100 100										BOILER No. Hours Run pH Stack Temp (°C) 1 100 100 100										BOILER No. Hours Run pH Stack Temp (°C) 1 100 100 100									
DEVIATION SURVEYS Time: 100 Depth (m): 100 Deviation: 100 Direction: 100 Type: 100										DEVIATION SURVEYS Time: 100 Depth (m): 100 Deviation: 100 Direction: 100 Type: 100										DEVIATION SURVEYS Time: 100 Depth (m): 100 Deviation: 100 Direction: 100 Type: 100									
TIME LOG From: 100 To: 100 Elapsed: 100 Code: 100 Details of Operations in Sequence & Remarks: 100										TIME LOG From: 100 To: 100 Elapsed: 100 Code: 100 Details of Operations in Sequence & Remarks: 100										TIME LOG From: 100 To: 100 Elapsed: 100 Code: 100 Details of Operations in Sequence & Remarks: 100									
Remarks: 100										Remarks: 100										Remarks: 100									



Drilling Fluid Report

Well Name: Para Cameron Hills
Operator: Paramount Resources
Report For: John Williams

Current Activity: Rig up
Date: January 15, 2010
Spud Date: January 17, 2010
Location: M-74-50/10-11-15
Contractor: Precision 436
Report for: Terry Schaufert

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Bit Record		Casings				Drilling Assembly										Volumes (m3)		Hole Enlarge %	
Bit No.	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Open Hole Ann Val.	Open Hole Flow	Liner Ann Val.	Liner Flow	Casing Ann Val.	Casing Flow	Pipe Cap	Circulation Time			
Bit Size(mm)															Ann Val.	BTM's Up			
Type															Tank	Total			
Nozzles (mm)																Tot. Cir. Vol	Water Added		
N1:		N2:													Open Hole	Mud Lost			
N3:		N4:																	
N5:		N6:																	
N7:		N8:																	
TFA																			
Depth In																			
Depth Out																			
Hrs. on Bit																			
Drill Rate	0.0																		
R.P.M.																			
WOB (daN)																			
Nozzle Vel	0.0																		
Summary of Activity - Comments, Observations, Pilot Tests																			
Bit Press.		Check #1	Check #2	Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges, etc.															
Mud System	WaterBasedMud																		
Depth MD / TVD (m)	0	/	0	/															
Time Sample Taken	17:31																		
Flowline Temp (C)																			
Funnel Viscosity (sec/L)																			
Mud Density (kg/m3)																			
Hyd. Grad. (kPa/m)																			
ECD (kg/m3)																			
pH	☒ STRIP	☐ METER																	
Plastic Viscosity (mPa)																			
Yield Point (Pa)																			
Gel Strength (Pa) 10s/10min	/	/	/	/															
N Low / K low	/	/	/	/															
N Med / K med	/	/	/	/															
Filtrate (cm3/30min @ 700kPa)																			
Filtrate Cake (mm)																			
HTHP FILTRATE @ C (cm3/30 min @ 3500 kPa)	@	@	@	@															
Filtrate Cake (mm)																			
Sand Content (%)																			
Total Solids (%)																			
Conn. Solids (%)																			
Oil Content (%)																			
M.B.T. (kg/m3)																			
HGS (kg/m3) / %	/	/	/	/															
LGS (kg/m3) / %	/	/	/	/															
Drilled solids (kg/m3)																			
Bentonite (kg/m3)																			
Avg. Density (kg/m3)																			
Alkalinity (PF/MF)	/	/	/	/															
Hydroxyl (mg/L)																			
Carbonate (mg/L)																			
Bicarbonate (mg/L)																			
Total Hardness (mg/L)																			
Chlorides (mg/L)																			
Potassium (mg/L)																			
0.2 N HCl / 2.0 N HCl (cc%)	/	/	/	/															
Silicate % v/v / Silicate %	/	/	/	/															
Clear Fluid Density (kg/m3)	1000																		
SiO2/K2O Ratio																			
Soluble Sulfides	☐ HAC																		
Polymer (kg/m3)																			
WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.																			
SPUD REPORT:																			
1. Fill tanks 1/2 - 3/4 full of water and start circulating system.																			
2. While circulating drip feed 1 pail of detergent into system to aid in mud ring prevention.																			
3. Add 5-7 L/m3 of Shure Shale and 1 kg/m of Hyper Drill AF 247 prior to spud for the prevention of mud rings.																			
4. Raise Viscosity as required to clean hole, if rocks, boulders and gravel are encountered increase viscosity as hole dictates and ensure good hole cleaning prior to drilling ahead to prevent stuck pipe.																			
5. If mud rings are encountered mix detergent into suction and mix 2 vis cups of TKPP at drill pipe on connections to break down prior to surfacing. If problem persists mix 1/2 sk TKPP through hopper and continue to mix at drill pipe.																			
6. For seepage losses mix sawdust through hopper as required.																			
7. For Total Losses:																			
Rebuild volume to 70+ s/l viscosity and build a 5m3 pill with - Sawdust : Cellophane : Kwikseal in a 20 : 5 : 2 ratio and spot at a reduced pump rate in to their zone. Pull pump screen prior to pumping.																			
8. 20 - 30m prior to T.D increase viscosity to 80-100 s/l ready to run casing.																			
9. Once casing is landed and hole cleaned, lower viscosity to 50 - 55 s/l with water ready for cementing operations.																			
Materials Used Since Last Check																			
Products																			
Products																			
Products																			
Cost Information																			
Cost Since Last Check																			
Total Cost to Date																			
Marquis Alliance Representatives																			
T.S.R. Scott Cooper Trucking Company																			
Cell 403-999-9596 Warehouse																			
Alternate 403-999-9596 Phone #																			



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	John Williams

Current Activity	Drilling Ahead		
Date	January 17, 2010	Check Number	2
Spud Date	January 17, 2010	Days From Spud	0
Location	M-74-60/10-11-15		
Contractor	Precision 436		
Report for	Terry Schaufert		

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Bit Record					Casings					Drilling Assembly										Volumes (m3)		Hole Enlarge %	0
Bit No.	1A	Type	ID	OD	Set at (m)	Type	ID	OD	Length	Ann. Vel.	Flow	Ann. Vel.	Flow	Ann. Vel.	Flow	Pipe Cap.	0.7	Circulation Time					
Bit Size (mm)	311					D.C.	75.0	194.0	17.5	40.1	LAM		N/A		N/A	Ann. Vel.	4.7	BTM's Up	3				
Type	HE04SMRSV					Other	60.0	154.0	2.5	32.5	LAM		N/A		N/A	Tank	34.0	Total	21				
Nozzles (mm)						D.C.	60.0	155.0	81.9	32.6	LAM		N/A		-98.7	N/A	Tot. Ch. Vol.	39.5	Water Added				
N1:	14.3	N2:	14.3			H.W.D.P.	62.0	133.0	142.1		N/A		N/A		134.1	N/A	Open Hole	6.5	Mud Lost				
N3:	14.3	N4:	14.3																				
N5:		N6:																					
N7:		N8:																					
TFA	642																						
Depth In	0																						
Depth Out																							
Hrs. on Bit	11.5																						
Drill Rate	20.0																						
R.P.M.	60																						
WOB (daN)	3																						
Nozzle Vel	48.3																						

Bit Press.	1320	Check #1	Check #2	Summary of Activity - Comments, Observations, Pilot Tests																			
				Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.																			

Mud System	WaterBasedMud	Rig Up and Spud this Morning @ 0730.																				
Depth MD / TVD (m)	86 / 86																					
Time Sample Taken	19:01																					
Flowline Temp (C)	26																					
Funnel Viscosity (sec/L)	32																					
Mud Density (kg/m3)	1020																					
Hyd. Grad. (kPa/m)	10.01																					
ECD (kg/m3)	1032																					

pH	☒ STRIP ☐ METER	8.5	Recommended Treatment - Suggestions																			
				WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.																		

Plastic Viscosity (mPa)	5.0	For Drilling Ahead:																				
Yield Point (Pa)	2.4																					
Gel Strength (Pa) 10s/10min	1.0 / 2.0																					
N Low / K low	0.28 / 1.28																					
N Med / K med	0.58 / 0.26																					
Filtrate (cm3/30min@700kPa)																						
Filtrate (mm)																						
HTHP FILTRATE @ C (cm3/30 min @ 3500 kPa)	@																					
Filtrate (mm)																						
Sand Content (%)	.6																					
Total Solids (%)																						
Corr. Solids (%)																						
Oil Content (%)	0.0																					
M.B.T. (kg/m3)	0																					
HGS (kg/m3) / %	/																					
LGS (kg/m3) / %	/																					
Drilled solids (kg/m3)	0.00																					
Bentonite (kg/m3)																						
Avg. Density (kg/m3)																						

Alkalinity (P/M/P)	0.1 / 0.1					Materials Used Since Last Check																
Hydroxyl (mg/L)						Products		Products		Products												
Carbonate (mg/L)	60					Drilling Detergent	1	Hyperdrill AF247RD	1	Shure Shale	7											
Bicarbonate (mg/L)																						
Total Hardness (mg/L)	20																					
Chlorides (mg/L)	700																					
Potassium (mg/L)																						

0.2 N HCl / 2.0 N HCl (cc's)	/		/	Cost Information						
Silicate% v/v / Silicate %	/		/	Cost Since Last Check	\$2,599.67	Total Cost to Date	\$2,599.67			
Clear Fluid Density (kg/m3)	1000	Marquis Alliance Representatives								
SiO2:H2O Ratio				T.S.R	Scott Cooper	Trucking Company				
Soluble Sulfides ☐ HAC ☐				Cell	403-999-9596	Warehouse				
Polymer (kg/m3)	0.30			Alternate	403-999-9596	Phone #				



Drilling Fluid Report

Well Name: Para Cameron Hills
Operator: Paramount Resources
Report For: John Williams

Current Activity: circulating
Date: January 21, 2010
Spud Date: January 17, 2010
Location: M-74-60/10-11-15
Contractor: Precision 436
Report for: Terry Schaufert

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Bit Record				Casings				Drilling Assembly								Volumes (m3)		Hole Enlarge %	0
Bit No.	1	Type	ID	OD	Set at (m)	Type	ID	OD	Length	Ann. Vol.	Flow	Ann. Vol.	Flow	Ann. Vol.	Flow	Pipe Cap	1.8	Circulation Time	
Bit Size (mm)	200	Surface	205.0	219.0	378.0	D.C.	60.0	155.0	131.8	93.6	N/A	N/A	N/A	83.1	N/A	Ann. Vol.	8.7	BTMs Up	7
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	N/A	N/A	N/A	N/A	47.3	N/A	Tank	34.0	Total	38
Nozzles (mm)						D.P.	85.0	102.0	220.4	N/A	N/A	N/A	N/A	47.3	N/A	Tst. Cr. Vol	44.5	Water Added	
N1: 10.3	N2: 10.3					Other				N/A	N/A	N/A	N/A			Open Hole	0.9	Mud Lost	
N3: 10.3	N4: 10.3																		
N5: 10.3	N6: 10.3																		
N7: 10.3	N8: 10.3																		
TFA	583																		
Depth In	378																		
Depth Out																			
Hrs. on Bit	2.0																		
Drill Rate	25.0																		
R.P.M.	70																		
WOB (daN)																			
Nozzle Vel	33.6																		

Summary of Activity - Comments, Observations, Pilot Tests
Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.

Mud System	WaterBasedMud	WaterBasedMud
Depth MD / TVD (m)	378 / 378	408 / 408
Time Sample Taken	13:33	13:44
Flowline Temp (C)	25	22
Funnel Viscosity (sec/L)	55	28
Mud Density (kg/m3)	1040	1000
Hyd. Grad. (kPa/m)	10.20	9.81
ECD (kg/m3)	1047	1000
pH	8.5	9.5
Plastic Viscosity (mPa)	18.0	
Yield Point (Pa)	4.3	
Gel Strength (Pa) 10s/10min	7.0 / 13.0	/ /
N Low / K low	0.20 / 4.34	/ /
N Med / K med	0.74 / 0.27	/ /
Filtrate (cm3/30min@700kPa)	14.0	
Fiber Cake (mm)	1.0	
HTHP FILTRATE @ C (cm3/30 min @ 3500 kPa)	@	@
Fiber Cake (mm)		
Sand Content (%)	.05	
Total Solids (%)	2.5	
Cart. Solids (%)		
Oil Content (%)		
M.B.T. (kg/m3)	85	
HGS (kg/m3) / %	0.00 / 0.0	/ /
LGS (kg/m3) / %	65.01 / 2.5	/ /
Drilled solids (kg/m3)	-19.99	
Bentonite (kg/m3)		
Avg. Density (kg/m3)	2600	
Alkalinity (PP/MF)	0.1 / 0.2	0.2 / 0.3

20th January:
Cement surface casing @ 378m with 5m3 of cement returns.
Nipple up and pressure test.

Recommended Treatment - Suggestions
WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.

- For Drilling Ahead:
- Mix 10 sacks of Envirofloc (Calcuim Nitrate) tourly.
 - Inject Alkapam 1103D as required to flocc the system. Do not over treat - this will make the solids run across, if this happens dilute with water until floc starts again.
 - If water is cloudy mix 5 sacks of Envirofloc.
 - If lost circulation is encountered let me know immediately.

Thanks,
Scott

Materials Used Since Last Check				Cost Information			
Products		Products		Cost Since Last Check	\$950.00	Total Cost to Date	\$11,108.24
Hydroxyl (mg/L)							
Carbonate (mg/L)	60		180				
Bicarbonate (mg/L)	122						
Total Hardness (mg/L)	40		800				
Chlorides (mg/L)	500		200				
Potassium (mg/L)							
0.2 N HCl / 2.0 N HCl (cc)	/		/				
Silicate % v/v / Silicate %	/		/				
Clear Fluid Density (kg/m3)	1000		1000				
SiO2/K2O Ratio							
Soluble Sulfides	HAC						
Polymer (kg/m3)	0.30						

Marquis Alliance Representatives
T.S.R. Scott Cooper
Cell 403-999-9596
Alternate 403-999-9596
Trucking Company
Warehouse
Phone #



Drilling Fluid Report

Well Name: Para Cameron Hills
Operator: Paramount Resources
Report For: John Williams

Current Activity: Drilling ahead
Date: January 22, 2010
Check Number: 7
Spud Date: January 17, 2010
Days From Spud: 5
Location: M-74-60/10-11-15
Contractor: Precision 435
Report for: Terry Schaufert

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Bit Record		Casings			Drilling Assembly										Volumes (m3)		Hole Enlarge %		0	
Bit No.	1	Type	ID	OD	Set at (m)	Type	ID	OD	Length	Ann Vel.	Flow	Ann Vel.	Flow	Ann Vel.	Flow	Pipe Cap	3.7	Circulation Time		
BR Size (mm)	200	Surface	205.0	219.0	378.0	D.C.	60.0	155.0	131.8	106.0	N/A	N/A	N/A	N/A	N/A	Ann Vel.	16.4	BTMs Up		
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	57.2	N/A	N/A	N/A	N/A	N/A	Tank	34.0	Total		
Nozzles (mm)						D.P.	85.0	102.0	553.4	57.2	N/A	N/A	N/A	53.6	N/A	Tot. Cir. Vol	54.1	Water Added		
N1:	10.3	N2:	10.3			Other					N/A	N/A	N/A	N/A	N/A	Open Hole	11.4	Mud Lost		
N3:	10.3	N4:	10.3																	
N5:	10.3	N6:	10.3																	
N7:	10.3	N8:																		
TFA	583																			
Depth In	378																			
Depth Out																				
Hrs. on Bit	17.3																			
Drill Rate	12.0																			
R.P.M.	90																			
WOB (kN)	2																			
Nozzle Vel	38.0																			
Bit Press.	800																			
Mud System	WaterBasedMud																			
Depth MD / TVD (m)	741 / 741																			
Time Sample Taken	13:39																			
Flowline Temp (C)	26																			
Funnel Viscosity (sec/L)	28																			
Mud Density (kg/m3)	1000																			
Hyd. Grad. (kPa/m)	9.81																			
ECD (kg/m3)	1000																			
pH	8.0																			
Plastic Viscosity (mPa)																				
Yield Point (Pa)																				
Gel Strength (Pa) 10s/10min																				
N Low / K low																				
N Med / K med																				
Filtrate (cm3/30min@700kPa)																				
Filtrate Cake (mm)																				
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)																				
Filtrate Cake (mm)																				
Sand Content (%)																				
Total Solids (%)																				
Conn. Solids (%)																				
Oil Content (%)																				
N.B.T. (kg/m3)																				
HGS (kg/m3) / %																				
LGS (kg/m3) / %																				
Drilled solids (kg/m3)																				
Bentonite (kg/m3)																				
Avg. Density (kg/m3)																				
Alkalinity (PPH/P)	0.1 / 0.1																			
Hydroxyl (mg/L)																				
Carbonate (mg/L)	50																			
Bicarbonate (mg/L)																				
Total Hardness (mg/L)	350																			
Chlorides (mg/L)	120																			
Potassium (mg/L)																				
0.2 N HCl / 2.0 N HCl (cc/L)																				
Silicate % v/v / Silicate %																				
Clear Fluid Density (kg/m3)	1000																			
SiO2:H2O Ratio																				
Soluble Solids																				
Polymer (kg/m3)																				

Summary of Activity - Comments, Observations, Pilot Tests

Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.

21st January:
378-532m in 10.25 hours.
R.I.H. B.O.P Drill, Drill cement float and had safety meeting with rig crew and safety company.

Recommended Treatment - Suggestions

WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.

For Drilling Ahead:
1. Mix 5 sacks of Envirofloc (Calcium Nitrate) tourly.
2. Inject Alkapam 1103D as required to floc the system. Do not over treat - this will make the solids run across, if this happens dilute with water until floc starts again.
3. If water is cloudy mix 5 sacks of Envirofloc.

Mud Up Report: The Depth for mud up will be determined by John.
1. Stop all floc additions @ 1100m and isolate mud tanks with 25-30m3 of floc water, mix 3 sacks of soda ash to treat calcium below 60mg/L.
2. Start mixing gel @ 5 minutes a sack to achieve a 40-45 s/l viscosity, once achieved mix ultra pac and lignite @ 1:2 ratio evenly over circulation to lower fluid loss to below 8cc.

Maintain for Drilling:
1. Viscosity @ 45 s/l with gel evenly over circulation.
2. P.h @ 9-9.5 with caustic through chemical barrel with cold water, mix caustic into water and dispense into system as required.
3. Fluid loss @ 6-8cc with ultrapac and lignite @ 1:2 ratio evenly over circulation.
4. Keep density under control with solids control equipment and run water @ 10 litres a minute to keep system hydrated. (This can be lowered if volume is being increased by water additions but always keep water running when circulating or drilling.

Thanks,
Scott

Materials Used Since Last Check

Products	Products	Products
Alkapam A-1103D	1	Envirofloc
		10

Cost Information

Cost Since Last Check	Total Cost to Date
\$1,123.23	\$12,231.47

Marquis Alliance Representatives

T.S.R	Trucking Company
Scott Cooper	
Cell	Warehouse
Alternate	Phone #



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	John Williams

Current Activity	Drilling ahead		
Date	January 23, 2010	Check Number	8
Spud Date	January 17, 2010	Days From Spud	6
Location	M-74-60/10-11-15		
Contractor	Precision 436		
Report for	Terry Schaufert		

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record					Casings					Drilling Assembly										Volumes (m3)	Hole Enlarge %	0
Bit No.	1	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Ann Vel.	Flow	Ann Vel.	Flow	Ann Vel.	Flow	Pipe Cap	5.3	Circulation Time				
Bit Size(mm)	200	Surface	205.0	219.0	378.0	D.C.	60.0	155.0	131.8	105.1	LAM		N/A		N/A	Ann Vel.	22.9	BTM's Up	17			
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	56.7	LAM		N/A		N/A	Tank	45.1	Total	56			
Nozzles (mm)						D.P.	85.0	102.0	831.4	56.7	LAM		N/A	53.1	LAM	Tot. Cr. Vol	73.2	Water Added				
N1: 10.3	N2: 10.3					Other					N/A		N/A		N/A	Open Hole	20.1	Mud Lost				
N3: 10.3	N4: 10.3																					
N5: 10.3	N6: 10.3																					
N7: 10.3	N8: 10.3																					
TFA	583																					
Depth In	378																					
Depth Out																						
Hrs. on Bit	38.5																					
Drill Rate	4.0																					
R.P.M.	103																					
WOB (daN)	2																					
Nozzle Vel	37.7																					
Bit Press.	825																					

Summary of Activity - Comments, Observations, Pilot Tests																					
Bit Press.	825	Check #1	Check #2	Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.																	

Mud System	WaterBasedMud	WaterBasedMud	Since Last Check:																		
Depth MD / TVD (m)	978 / 978	1019 / 1019	Drilled Ahead From 978-1019m control drilling for deviation.																		
Time Sample Taken	11:06	21:47																			
Flowline Temp (C)	27	26																			
Funnel Viscosity (sec/L)	40	62																			
Mud Density (kg/m3)	1060	1050																			
Hyd. Grad. (kPa/m)	10.40	10.30																			

Recommended Treatment - Suggestions																					
WHMSE: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.																					

Maintain for Drilling:																					
1. Viscosity @ 50-55 s/l with gel evenly over circulation.																					
2. P.h @ 9.5-10 with caustic through chemical barrel with cold water, mix caustic into water and dispense into system as required.																					
3. Fluid loss @ 6-8cc with ultrapac and lignite @ 1:2 ratio evenly over circulation.																					
4. Keep density under control with solids control equipment and run water @ 10 litres a minute to keep system hydrated. (This can be lowered if volume is being increased by water additions but always keep water running when circulating or drilling).																					
5. All properties look good guys - Please maintain.																					
Thanks,																					
Scott																					

Alkalinity (PF/MF)	0.1	/	0.1	0.1	/	0.3	Materials Used Since Last Check											
Hydroxyl (mg/L)							Products				Products				Products			
Carbonate (mg/L)	60			120			Alkapam A-1103D		1		Envirofloc		30		Sawdust		70	
Bicarbonate (mg/L)				61			Soda Ash (25)		4									
Total Hardness (mg/L)	120			40														
Chlorides (mg/L)	400			300														
Potassium (mg/L)																		
0.2 N HCl / 2.0 N HCl (cc's)				/			Cost Information											
Silicate % v/v / Silicate %	/			/			Cost Since Last Check		\$2,537.69		Total Cost to Date		\$14,769.16					
Clear Fluid Density (kg/m3)	1000			1000			Marquis Alliance Representatives											
SiO2:K2O Ratio							T.S.R		Scott Cooper		Trucking Company							
Soluble Sulfides ☐ HAC ☐							Cell		403-999-9596		Warehouse							
Polymer (kg/m3)							Alternate		403-999-9596		Phone #							

Cost Information				Marquis Alliance Representatives			
Cost Since Last Check	\$2,537.69	Total Cost to Date	\$14,769.16	T.S.R	Scott Cooper	Trucking Company	
				Cell	403-999-9596	Warehouse	
				Alternate	403-999-9596	Phone #	



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	John Williams

Current Activity	circulating		
Date	January 24, 2010	Check Number	10
Spud Date	January 17, 2010	Days From Spud	7
Location	M-74-60/10-11-15		
Contractor	Precision 436		
Report for	Terry Schaufert		

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record				Casings				Drilling Assembly								Volumes (m3)		Hole Enlarge %		0	
Bit No.	1	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Ann Vel.	Flow	Ann Vel.	Flow	Ann Vel.	Flow	Pipe Cap	5.3	Circulation Time			
Bit Size(mm)	200	Surface	205.0	219.0	378.0	D.C.	60.0	155.0	131.8	103.2	TUR		N/A		N/A	Ann Vol.	23.0	BTM's Up	18		
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	55.7	LAM		N/A		N/A	Tank	43.1	Total	55		
						D.P.	85.0	102.0	838.4	55.7	LAM		N/A	52.1	LAM	Tot. Ck. Vol	71.4	Water Added			
Nozzles (mm)						Other					N/A		N/A		N/A	Open Hole	20.4	Mud Lost			
N1:	10.3	N2:	10.3																		
N3:	10.3	N4:	10.3																		
N5:	10.3	N6:	10.3																		
N7:	10.3	N8:																			
TFA	583																				
Depth In	378																				
Depth Out																					
Hrs. on Bit	50.5																				
Drill Rate	0.0																				
R.P.M.	50																				
WOB (daN)	2																				
Nozzle Vel	37.0																				
Bit Press.	788																				
Mud System	WaterBasedMud																				
Depth MD / TVD (m)	1026 / 1026																				
Time Sample Taken	08:28																				
Flowline Temp (C)	24																				
Funnel Viscosity (sec/L)	44																				
Mud Density (kg/m3)	1040																				
Hyd. Grad. (kPa/m)	10.20																				
ECD (kg/m3)	1060																				
pH	STRIP																				
Plastic Viscosity (mPa)	10.0																				
Yield Point (Pa)	3.8																				
Gel Strength (Pa) 10s/10min	4.0 / 7.0																				
N Low / K low	0.31 / 1.81																				
N Med / K med	0.64 / 0.34																				
Filtrate (cm3/30min@700kPa)	10.0																				
Fiber Cate (mm)	1.0																				
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@																				
Fiber Cate (mm)																					
Sand Content (%)																					
Total Solids (%)	2.5																				
Conn. Solids (%)																					
Oil Content (%)																					
M.B.T. (kg/m3)	59																				
HGS (kg/m3) / %	0.00 / 0.0																				
LGS (kg/m3) / %	65.01 / 2.5																				
Drilled solids (kg/m3)	6.01																				
Bentonite (kg/m3)																					
Avg. Density (kg/m3)	2600																				
Alkalinity (PPH/MF)	0.1 / 0.2																				
Hydroxyl (mg/L)																					
Carbonate (mg/L)	120																				
Bicarbonate (mg/L)																					
Total Hardness (mg/L)	40																				
Chlorides (mg/L)	200																				
Potassium (mg/L)																					
0.2 N HCl / 2.0 N HCl (cc's)	/																				
Silicate % v/v / Silicate %	/																				
Clear Fluid Density (kg/m3)	1000																				
SiO2/K2O Ratio																					
Soluble Sulfides	HAC																				
Polymer (kg/m3)																					

Summary of Activity - Comments, Observations, Pilot Tests

Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.

23rd January:
926-1026m in 18 Hours
Total Bit Hours:50.50
Control drilled to fan back in for deviation of 8 degree's.
Lost 25m3 on trip out @ 560m.

Recommended Treatment - Suggestions

WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.

Maintain for Drilling:
1. Viscosity @ 50-55 s/l with gel evenly over circulation.
2. P.h @ 9.5-10 with caustic through chemical barrel with cold water, mix caustic into water and dispense into system as required.
3. Fluid loss @ 6-8cc with ultrapac and lignite @ 1:2 ratio evenly over circulation.
4. Keep density under control with solids control equipment and run water @ 10 litres a minute to keep system hydrated. (This can be lowered if volume is being increased by water additions but always keep water running when circulating or drilling).
5. For lost circulation mix LCM pill sawdust:Kwikseal:Cellophane@ 20:5:2 and spot over thief zone, for drilling ahead mix sawdust @ 5 minutes a sack, Cal Carb 0 and 325 @ 10 minutes a sack to help heal thief zone. If losses increase Mix a pill with Sawdust:Kwikseal:Cellophane:Ultraseal@ 20:6:3:5 and spot over thief zone.

Thanks,
Scott

Materials Used Since Last Check

Products	Products	Products	Products
Bentonite (Gel)	75	Caustic Soda	3
Lignite	10	Sawdust	15
Ultra Pac R	5		

Cost Information

Cost Since Last Check	Total Cost to Date
\$3,554.62	\$18,323.78

Marquis Alliance Representatives

T.S.R	Trucking Company
Scott Cooper	
Cell	403-999-9596
Alternate	403-999-9596



Drilling Fluid Report

Well Name: Para Cameron Hills
Operator: Paramount Resources
Report For: John Williams

Current Activity: Mixing Against Lost Circulation
Date: January 25, 2010
Spud Date: January 17, 2010
Location: M-74-60/10-11-15
Contractor: Precision 436
Report for: Terry Schaufert

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record			Casings			Drilling Assembly										Volumes (m3)		Hole Enlarge %		0	
Bit No.	1	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Ann Val.	Flow	Ann Val.	Flow	Ann Val.	Flow	Pipe Cap	3.4	Circulation Time			
Bit Size(mm)	200	Surface	205.0	219.0	378.0	D.C.	60.0	155.0	131.8	104.1	N/A		N/A		N/A	Ann Vol.	15.5	BTM's Up	12		
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	56.2	N/A		N/A		N/A	Tank	43.1	Total	47		
Nozzles (mm)						D.P.	85.0	102.0	512.4	56.2	N/A		N/A	52.6	N/A	Tot. Ck. Vol	62.0	Water Added			
N1:	10.3	N2:	10.3			Other					N/A		N/A		N/A	Open Hole	10.1	Mud Lost			
N3:	10.3	N4:	10.3																		
N5:	10.3	N6:	10.3																		
N7:	10.3	N8:																			
TFA	583																				
Depth In	378																				
Depth Out																					
Hrs. on Bit	50.5																				
Drill Rate																					
R.P.M.	50																				
WOB (daN)	2																				
Nozzle Vel	37.3																				
Bit Press.	772																				
Mud System	WaterBasedMud	WaterBasedMud																			
Depth MD / TVD (m)	1040	1040				700	700														
Time Sample Taken	01:20					20:53															
Flowline Temp (C)	22					22															
Funnel Viscosity (sec/100)	46					28															
Mud Density (kg/m3)	1030					1000															
Hyd. Grad. (kPa/m)	10.10					9.81															
ECD (kg/m3)	1044					1000															
pH	STRIP	METER				9.0	8.0														
Plastic Viscosity (mPa)	11.0																				
Yield Point (Pa)	1.9																				
Gel Strength (Pa) 10s/10min																					
N Low / K low	0.33					1.18															
N Mid / K mid	0.79					0.11															
Filtrate (cm3/30min@700kPa)	15.0																				
Filter Cake (mm)	1.0																				
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@					@															
Filter Cake (mm)																					
Sand Content (%)	.05																				
Total Solids (%)	1.87																				
Conn. Solids (%)																					
Oil Content (%)																					
N.B.T. (kg/m3)	42																				
HGS (kg/m3) / %	0.21					0.0															
LGS (kg/m3) / %	48.50					1.9															
Drilled solids (kg/m3)	6.50																				
Bentonite (kg/m3)																					
Avg. Density (kg/m3)	2604																				
Alkalinity (PFMP)	0.1					0.0															
Hydroxyl (mg/L)																					
Carbonate (mg/L)	60					24															
Bicarbonate (mg/L)																					
Total Hardness (mg/L)	40					20															
Chlorides (mg/L)	180					180															
Potassium (mg/L)																					
0.2 N HCl / 2.0 N HCl (cc's)																					
Silicate % v/v / Silicate %																					
Clear Fluid Density (kg/m3)	1000					1000															
SiO2:K2O Ratio																					
Soluble Sulphides	HAC																				
Polymer (kg/m3)																					

Summary of Activity - Comments, Observations, Pilot Tests

Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.

25th January:
Mixed Frac Attack LCM pill to :9.6m3 water,160 Frac Attack,30 Barite. The pill is 12m3 of fluid and 10m3 of pumpable fluid. Pumped 2.5m3 of pill at 700m and pulled 150m above pill and circulated, ran in to 625m and pumped 2.5m3 of pill and pulled 150m above pill and circulated, ran in to 550m and pumped 2.5m3 of pill and pulled 150m above pill and circulated, ran in to 475m and pumped 2.5m3 of pill and pulled 200m above pill and applied 100 Psi pressure for 30 minutes.

Recommended Treatment - Suggestions

WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.

Maintain for Drilling if 100% returns stay:

- Viscosity @ 50-55 s/l with gel evenly over circulation.
- P.h @ 9.5-10 with caustic through chemical barrel with cold water, mix caustic into water and dispense into system as required.
- Fluid loss @ 6-8cc with ultrapac evenly over circulation.
- Keep density under control with solids control equipment and run water @ 10 litres a minute to keep system hydrated. (This can be lowered if volume is being increased by water additions but always keep water running when circulating or drilling).
- For seepage losses mix cal carb 0 & 325 at 10 minutes a sack, if losses increase start sawdust also at 2 minutes a sack. Start to rebuild volume with water and mix gel at 5 minutes a sack with a caustic running in through chemical barrel.
- Maintain 45m3 in tanks at all times.

Thanks,
Scott

Materials Used Since Last Check

Products	Products	Products
Bentonite (Gel)	20	Calcium Carbonate 0
Sawdust	10	3
		Calcium Carbonate 3
		20

Cost Information

Cost Since Last Check	Total Cost to Date
\$1,095.38	\$19,419.16

Marquis Alliance Representatives

T.S.R	Trucking Company
Scott Cooper	
Cell	403-999-9596
Warehouse	
Alternate	403-999-9596
Phone #	



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	John Williams

Current Activity	Mixing Against Lost Circulation		
Date	January 27, 2010	Check Number	13
Spud Date	January 17, 2010	Days From Spud	10
Location	M-74-60/10-11-15		
Contractor	Precision 436		
Report for	Terry Schaufert		

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made herein shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record			Casings			Drilling Assembly										Volumes (m3)	Hole Enlarge %	0
Bit No.	1	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Open Hole Ann Vel.	Flow	Liner Ann Vel.	Flow	Casing Ann Vel.	Flow	Pipe Cap	3.4	Circulation Time
Bit Size(mm)	200	Surface	205.0	219.0	378.0	D.C.	60.0	155.0	131.8	104.1	N/A		N/A		N/A	Ann Vel.	15.5	BTM's Up
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	56.2	N/A		N/A		N/A	Tank	43.1	Total
Nozzles (mm)						D.P.	85.0	102.0	512.4	56.2	N/A		N/A	52.6	N/A	Tot. Ck. Vol	62.0	Water Added
N1:	10.3	N2:	10.3			Other				N/A		N/A		N/A		Open Hole	10.1	Mud Lost
N3:	10.3	N4:	10.3															
N5:	10.3	N6:	10.3															
N7:	10.3	N8:																
TFA	583																	
Depth In	378																	
Depth Out																		
Hrs. on Bit	50.5																	
Drill Rate																		
R.P.M.	50	HHP			22.54													
WOB (kN)	2	% Pressure at Bit			10.59													
Nozzle Vel	37.3																	
Bit Press.	772	Check #1			Check #2													

Summary of Activity - Comments, Observations, Pilot Tests										Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges, etc.								
---	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--

Mud System	WaterBasedMud	January 26th: Mixed Frac Attack Pill and tripped to surface casing shoe to circulate, put squeeze on pill.																
Depth MD / TVD (m)	700 / 700																	
Time Sample Taken	21:21																	
Flowline Temp (C)	25																	
Funnel Viscosity (sec/L)	28																	
Mud Density (kg/m3)	1000																	
Hyd. Grad. (kPa/m)	9.81																	
ECD (kg/m3)	1000																	
pH	STRIP																	
Plastic Viscosity (mPa)																		
Yield Point (Pa)																		
Gel Strength (Pa) 10s/10min																		
N Low / K low																		
N Med / K med																		
Filtrate (cm3/30min@700kPa)																		
Filtrate (mm)																		
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)																		
Filtrate (mm)																		
Sand Content (%)																		
Total Solids (%)																		
Conn. Solids (%)																		
Oil Content (%)																		
N.B.T. (kg/m3)																		
HGS (kg/m3) / %																		
LGS (kg/m3) / %																		
Drilled solids (kg/m3)																		
Bentonite (kg/m3)																		
Avg. Density (kg/m3)																		
Alkalinity (PFMF)	0.1			0.1														
Hydroxyl (mg/L)																		
Carbonate (mg/L)	60																	
Bicarbonate (mg/L)																		
Total Hardness (mg/L)	40																	
Chlorides (mg/L)	180																	
Potassium (mg/L)																		
0.2 N HCl / 2.0 N HCl (cc's)																		
Silicate % v/v / Silicate %																		
Clear Fluid Density (kg/m3)	1000																	

Recommended Treatment - Suggestions										WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/TAGS FOR MORE INFORMATION.								
-------------------------------------	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--

Maintain for Drilling if 100% returns stay:										1. Viscosity @ 50-55 s/l with gel evenly over circulation.								
										2. P.h @ 9.5-10 with caustic through chemical barrel with cold water, mix caustic into water and dispense into system as required.								
										3. Fluid loss @ 6-8cc with ultrapac evenly over circulation.								
										4. Keep density under control with solids control equipment and run water @ 10 litres a minute to keep system hydrated. (This can be lowered if volume is being increased by water additions but always keep water running when circulating or drilling).								
										5. For seepage losses mix cal carb 0 & 325 at 10 minutes a sack, if losses increase start sawdust also at 2 minutes a sack. Start to rebuild volume with water and mix gel at 5 minutes a sack with a caustic running in through chemical barrel.								
										6. Maintain 45m3 in tanks at all times.								

Thanks,										Scott								
---------	--	--	--	--	--	--	--	--	--	-------	--	--	--	--	--	--	--	--

HGS (kg/m3) / %		/		/		Scott							
LGS (kg/m3) / %		/		/									
Drilled solids (kg/m3)													
Bentonite (kg/m3)													
Avg. Density (kg/m3)													
Alkalinity (PPH/MF)	0.1	/	0.1	/		Materials Used Since Last Check							
Hydroxyl (mg/L)						Products		Products		Products			
Carbonate (mg/L)	60					Barite	30	Bentonite (Gel)	78	Calcium Carbonate 0	2		
Bicarbonate (mg/L)						Calcium Carbonate 3	20	Caustic Soda	1	Cellophane	2		
Total Hardness (mg/L)	40					Kelzan XCD Polymer	1	Kwik Seal Coarse	2	Sawdust	115		
Chlorides (mg/L)	180					XL Defoamer	4	Frac Attack	120				
Potassium (mg/L)													



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	John Williams

Current Activity	P.O.O.H to run cement plugs		
Date	January 28, 2010	Check Number	14
Spud Date	January 17, 2010	Days From Spud	11
Location	M-74-60/10-11-15		
Contractor	Precision 436		
Report for	Terry Schaufert		

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record				Casings				Drilling Assembly								Volumes (m3)		Hole Enlarge %		0	
Bit No.	1	Type	ID	OD	Set at (m)	Type	ID	OD	Length	Open Hole Ann Val.	Flow	Linear Ann Val.	Flow	Casing Ann Val.	Flow	Pipe Cap	3.7	Circulation Time			
Bit Size (mm)	200	Surface	205.0	219.0	378.0	D.C.	60.0	155.0	131.8	104.1	N/A		N/A		N/A		16.6	STAR's Up	13		
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	56.2	N/A		N/A		N/A		43.1	Total	49		
Nozzles (mm)						D.P.	85.0	102.0	56.2	56.2	N/A		N/A	52.6	N/A		63.5	Water Added			
N1	10.3	N2	10.3			Other					N/A		N/A		N/A		11.7	Mud Lost			
N3	10.3	N4	10.3																		
N5	10.3	N6	10.3																		
N7	10.3	N8																			
TFA		583																			
Depth In	378																				
Depth Out																					
Hrs. on Bit	50.5																				
Drill Rate																					
R.P.M.	50																				
WOB (klb)	2																				
Nozzle Vel	0.0																				
Bit Press.	0																				
Mud System		WaterBasedMud																			
Depth MD / TVD (m)	750	/	750																		
Time Sample Taken	13:50																				
Flowline Temp (C)																					
Funnel Viscosity (sec/L)																					
Mud Density (kg/m3)																					
Hyd. Grad. (kPa/m)																					
ECD (kg/m3)	0																				
pH	STRIP	METER																			
Plastic Viscosity (mPa)																					
Yield Point (Pa)																					
Gel Strength (Pa) 10s/10min	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
N Low / K low	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
N Med / K med	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
Filtrate (cm3/30min@700kPa)																					
Filtrate Cake (mm)																					
HTHP FILTRATE @ C (cm3/30 min @ 3500 kPa)	@	@	@	@	@	@	@	@	@	@	@	@	@	@	@	@	@	@	@		
Filtrate Cake (mm)																					
Sand Content (%)																					
Total Solids (%)																					
Corr. Solids (%)																					
Oil Content (%)																					
M.B.T. (kg/m3)																					
HGS (kg/m3) / %	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
LGS (kg/m3) / %	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
Drilled solids (kg/m3)																					
Benitonia (kg/m3)																					
Avg. Density (kg/m3)																					
Alkalinity (PF/MF)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
Hydroxyl (mg/L)																					
Carbonate (mg/L)																					
Bicarbonate (mg/L)																					
Total Hardness (mg/L)																					
Chlorides (mg/L)																					
Potassium (mg/L)																					
0.2 N HCl / 2.0 N HCl (cc's)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
Silicate % v/v / Silicate %	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
Clear Fluid Density (kg/m3)	1000																				
SiO2:K2O Ratio																					
Soluble Sulfides	HAC																				
Polymer (kg/m3)																					

Summary of Activity - Comments, Observations, Pilot Tests

27th January:
Run Frac Attack Pill at 550m and squeeze 1500kpa on pill for 30 minutes, drill out pill and encountered lost circulation, cleaning up Frac Attack pill down to 750m and preparing for cement plugs.

Recommended Treatment - Suggestions

WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.

Maintain for Drilling: Run in to 1000m and mud up.

1. Viscosity @ 45 s/l with kelzan evenly over 2 circulations.

2. Mix Hyperdrill 247RD @ 3 hours a sack - 4 tourty.

3. Mix 4 pails of shure shale at 3 hours a pail.

2. P.h @ 9-9.5 with caustic through chemical barrel with cold water, mix caustic into water and dispence into system as required.

3. Fluid loss @ 6-8cc with ultrapac evenly over circulation.

4. Keep density under control with solids control equipment and run water @ 10 litres a minute to keep system hydrated. (This can be lowered if volume is being increased by water additions but always keep water running when circulating or drilling).

Materials Used Since Last Check

Products	Products	Products	Products
Barite	15	Caustic Soda	1
		Frac Attack	120

Cost Information

Cost Since Last Check	Total Cost to Date
\$853.98	\$25,496.45

Marquis Alliance Representatives

T.S.R.	Trucking Company
Scott Cooper	
Cell	403-999-9596
Alternate	403-999-9596



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	John Williams (ph. 4038602645)

Current Activity	Drilling Cement Plugs		
Date	February 1, 2010	Check Number	15
Spud Date	January 17, 2010	Days From Spud	15
Location	M-74-60/10-11-15		
Contractor	Precision 436		
Report for	Terry Schaufert		

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record				Casings				Drilling Assembly								Volumes (m3)		Hole Enlarge %		0		
Bit No.	2			Type	ID	OD	Set at(m)	Type	ID	OD	Length	Ann Vel.	Flow	Ann Vel.	Flow	Ann Vel.	Flow	Pipe Cap.	3.3	Circulation Time		
Bit Size(mm)	200			Surface	205.6	219.0	378.0	D.C.	60.0	155.0	131.8	106.0	TUR		N/A		N/A	Ann Vel.	14.8	BTM's Up	11	
Type	VTD513HX							H.W.D.P.	62.0	102.0	55.8	57.2	TUR		N/A		N/A	Tank	43.1	Total	46	
Nozzles (mm)								D.P.	85.0	102.0	482.4	57.2	TUR		N/A	53.1	TUR	Tot. Cr. Vol	61.2	Water Added		
N1	10.3	N2	10.3					Other					N/A		N/A		N/A	Open Hole	9.2	Mud Lost		
N3	10.3	N4	10.3	V.G. Readings				Deviation Record				Solids Control Equipment				Pump Data						
N5	10.3	N6	10.3	Test	#1	#2	Depth	Inc	Dir	Type	Name	Screen Size	Screen Size	Screen Size	Screen Size			Model	F-800	F-800		
N7	10.3	N8		600	6					Shakers	Swaco Mong	120	120	84	84			Liner Dia	152	152		
TFA	583			300	4													Stroke	229	229		
Depth In	378			200						Type	Name	U.F. (kg/m3)	O.F. (kg/m3)	U.F. Rate (L/min)	Hours Run	Removal Rate (kg/hr)		S.P.M.	0.0125	0.0125		
Depth Out				100						Centrifuge	United							Output(m3/hr)	1.330			
Hrs. on Bit	50.5			6														Output(m3/hr)	1.330			
Drill Rate	20.0			3	1													Total Output (m3/hr)		1.330		
R.P.M.	50			HHP			24.03											Press. (kPa)	6520			
WOB (daN)	2			% Pressure at Bit			12.40															
Nozzle Vel	38.0			Summary of Activity - Comments, Observations, Pilot Tests																		
Bit Press.	808			Check #1	Check #2				Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.													
Mud System	WaterBasedMud			Jan 31 2010: RIH, washing through bridges at 480m and 552m. RIH to 732m. Conditioned mud for cement plugs. Pumped first plug at 732m. POOH to 466m. Circ'd btms up. Pumped 2nd cement plug. POOH. P/U directional tools. RIH to csg shoe. L/D 18 singles. Reamed cement from 405m to 481m.																		
Depth MD / TVD (m)	670 / 670			Feb 01 2010: Reamed cement from 481m-595m (7 hrs), losing between 6-10m3 per hour while circulating drilling. 50m3 approx lost to hole. POOH 8 stds. Circulated with reduced losses. RIH, Washed to 595m. Circ'd to condition. POOH. RIH to 672m, washing through bridges at 405m																		
Time Sample Taken	15:17			Recommended Treatment - Suggestions																		
Flowline Temp (C)	24			WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.																		
Funnel Viscosity (sec/L)	28			Monitor Calcium content with test kit. Ensure 400-600mg/L Ca in system with Cal Nitrate. Do not mix if not required.																		
Mud Density (kg/m3)	1010			Strip fluid with Alkapam 1103 RD, mix 5 visc cups per 1m3 fresh water via injection tank.																		
Hyd. Grad. (kPa/m)	9.91			Monitor and record water additions on tour sheets, and if possible, losses as well.																		
ECD (kg/m3)	1014			Thanks,																		
pH	11.0			Shannon																		
Plastic Viscosity (mPa)	2.5																					
Yield Point (Pa)	0.5																					
Gel Strength (Pa) 10s/10min	0.5 / 0.5																					
N Low / K low	0.31 / 0.30																					
N Med / K med	0.78 / 0.03																					
Filtrate (cm3/30min@700kPa)																						
Filter Cake (mm)																						
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@																					
Filter Cake (mm)																						
Sand Content (%)																						
Total Solids (%)																						
Conn. Solids (%)																						
Oil Content (%)																						
M.B.T. (kg/m3)																						
HGS (kg/m3) / %	/ /																					
LGS (kg/m3) / %	/ /																					
Drilled solids (kg/m3)																						
Bentonite (kg/m3)																						
Avg. Density (kg/m3)																						
Alkalinity (PF/MF)	0.2 / 0.3																					
Hydroxyl (mg/L)	61																					
Carbonate (mg/L)	72																					
Bicarbonate (mg/L)																						
Total Hardness (mg/L)	1200																					
Chlorides (mg/L)	160																					
Potassium (mg/L)																						
0.2 N HCl / 2.0 N HCl (cc's)	/ /																					
Silicate % v/v / Silicate %	/ /																					
Clear Fluid Density (kg/m3)	1000																					
SiO2:K2O Ratio																						
Soluble Sulfides	HAC																					
Polymer (kg/m3)	0.00																					

Materials Used Since Last Check			
Products		Products	
Alkapam A-1103D	5	Barite	4
Calcium Carbonate 3	13	Desco	2
Envirofloc	19	Hyperdrill AF247RD	2
Kwik Seal Coarse	3	Sawdust	170
TKPP	5	XL Defoamer	3

Cost Information			
Cost Since Last Check	\$9,512.18	Total Cost to Date	\$35,008.63

Marquis Alliance Representatives			
T.S.R	Shannon Williams	Trucking Company	
Cell	780-691-2295	Warehouse	
Pager/Home #	780-895-2688	Phone #	



Drilling Fluid Report

Well Name: Para Cameron Hills
Operator: Paramount Resources
Report For: John Williams (ph. 4038602645)

Current Activity: Drilling Ahead 200mm Intermediate Hole
Date: February 3, 2010
Check Number: 16
Spud Date: January 17, 2010
Days From Spud: 17
Location: M-74-60/10-11-15
Contractor: Precision 436
Report for: Terry Schaufert

In consideration of the furnishing of this report and oral suggestions; it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record		Casings				Drilling Assembly										Volumes (m3)		Hole Enlarge %		0	
Bit No.	2	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Open Hole Ann Vol.	Flow	Liner Ann Vol.	Flow	Casing Ann Vol.	Flow	Pipe Cap	2.7	Circulation Time			
Bit Size(mm)	200	Surface	205.6	219.0	378.0	D.C.	60.0	155.0	131.8	106.0	N/A	N/A	N/A	N/A	N/A	Ann Vol.	12.7	BTMs Up	10		
Type	VTDS13HX					H.W.D.P.	62.0	102.0	55.8	57.2	N/A	N/A	N/A	N/A	N/A	Yank	32.0	Total	36		
Nozzles (mm)						D.P.	85.0	102.0	388.4	57.2	N/A	N/A	53.1	N/A	N/A	Tot. Ck. Vol	47.4	Water Added			
N1:	10.3	N2:	10.3			Other					N/A	N/A	N/A	N/A	N/A	Open Hole	6.2	Mud Lost			
N3:	10.3	N4:	10.3																		
N5:	10.3	N6:	10.3																		
N7:	10.3	N8:																			
TFA	583																				
Depth In	378																				
Depth Out																					
Hrs. on Bit	50.5																				
Drill Rate																					
R.P.M.	50																				
WOB (daN)	2																				
Nozzle Vel	38.0																				
Bit Press.	808																				
Mud System	WaterBasedMud	WaterBasedMud																			
Depth MD / TVD (m)	569 / 569	576 / 576																			
Time Sample Taken	15:00	22:46																			
Flowline Temp (C)		17																			
Funnel Viscosity (sec/L)	28	28																			
Mud Density (kg/m3)	1010	1010																			
Hyd. Grad. (kPa/m)	9.91	9.91																			
ECD (kg/m3)	1016	1010																			
pH	STRIP	METER																			
Plastic Viscosity (mPa)	2.0																				
Yield Point (Pa)	1.0																				
Gel Strength (Pa) 10s/10min	0.5 / 0.5	/ /																			
N Low / K low	0.41 / 0.26	/ /																			
N Med / K med	0.58 / 0.10	/ /																			
Filtrate (cm3/30min@700kPa)																					
Filter Cake (mm)																					
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@	@																			
Filter Cake (mm)																					
Sand Content (%)																					
Total Solids (%)																					
Conn. Solids (%)																					
Oil Content (%)																					
M.B.T. (kg/m3)																					
HGS (kg/m3) / %	/ /	/ /																			
LGS (kg/m3) / %	/ /	/ /																			
Drilled solids (kg/m3)																					
Bentonite (kg/m3)																					
Avg. Density (kg/m3)																					
Alkalinity (PPH/PF)	0.0 / 0.1	/ /																			
Hydroxyl (mg/L)																					
Carbonate (mg/L)	36																				
Bicarbonate (mg/L)	49																				
Total Hardness (mg/L)	1200																				
Chlorides (mg/L)	160																				
Potassium (mg/L)																					
0.2 N HCl / 2.0 N HCl (cc/s)	/ /	/ /																			
Silicate % v/v / Silicate %	/ /	/ /																			
Clear Fluid Density (kg/m3)	1000	1000																			
SiO2/K2O Ratio																					
Soluble Sulfoxides	HAC																				
Polymer (kg/m3)																					

Summary of Activity - Comments, Observations, Pilot Tests

Remarks: Hole conditions tripping & drilling, Cuttings description, Torque & drag, Reaming, Bridges, etc.

Feb 02 2010: Circ'd to condition mud. Cemented plug from 664m-475m. POOH to 400m. Circ'd/cond mud. RIH. Tagged top of plug at 494m. Circ'd btms up. Cement plug #2 from 403m to 303m. POOH 9 stds. RIH to L/D DP. WOC.

Feb 03 2010: Tagged cement at 402m. Circulated down to good cement at 467m (Frac Attack and other LCM evident at shaker). Kicked off plug and drill ahead new hole from 467m-576m, lost 10m3. POOH to L/D directional tools.

Recommended Treatment - Suggestions

WMS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/TAGS FOR MORE INFORMATION.

Monitor Calcium content with test kit. Ensure 400-600mg/L Ca in system with Cal Nitrate. Do not mix if not required.

Strip fluid with Alkapam 1103 RD, mix 5 visc cups per 1m3 fresh water via injection tank.

Monitor and record water additions on tour sheets, and if possible, losses as well.

Build LCM slug/sweep as noted in separate sheet. Pump 2m3 when hole/connections are tight or as per Company Man.

Thanks,
Shannon

Materials Used Since Last Check

Products	Products	Products	Products
Calcium Carbonate 0	14	Calcium Carbonate 3	14
Kelzan XCD Polymer	2	Sawdust	18
Ultra Seal XP	1		

Cost Information

Cost Since Last Check	Total Cost to Date
\$2,932.70	\$37,941.33

Marquis Alliance Representatives

T.S.R.	Shannon Williams	Trucking Company
Cell	780-691-2295	Warehouse
Alternate	780-691-2295	Phone #

Drilling Fluid Report



Drilling Fluid Report

Well Name: Para Cameron Hills
Operator: Paramount Resources
Report For: John Williams (ph. 4038602645)

Current Activity: Reaming Bridge
Date: February 5, 2010
Spud Date: January 17, 2010
Location: M-74-60/10-11-15
Contractor: Precision 436
Report for: Terry Schaufert

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record		Casings				Drilling Assembly										Volumes (m3)		Hole Enlarge %	0
Bit No.	2	Type	ID	OD	Set at (m)	Type	ID	OD	Length	Ann Vel.	Flow	Ann Vel.	Flow	Ann Vel.	Flow	Pipe Cap.	2.7	Circulation Time	
Bit Size (mm)	200	Surface	205.6	219.0	378.0	D.C.	60.0	155.0	131.8	94.6	LAM		N/A		N/A	Ann Vel.	12.3	BTM's Up	10
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	51.1	LAM		N/A	47.4	LAM	Tank	48.4	Total	53
Nozzles (mm)						D.P.	85.0	102.0	372.4		N/A		N/A	47.4	LAM	Tot. Cir. Vol	63.3	Water Added	600
N1:	10.3	N2:	10.3			Other					N/A		N/A		N/A	Open Hole	5.7	Mud Lost	600
N3:	10.3	N4:	10.3																
N5:	10.3	N6:	10.3																
N7:	10.3	N8:																	
TFA	583																		
Depth In	378																		
Depth Out																			
Hrs. on Bit																			
Drill Rate	0.0																		
R.P.M.																			
WOB (daN)																			
Nozzle Vel	33.9																		

Summary of Activity - Comments, Observations, Pilot Tests

Bit Press.	641	Check #1	Check #2	Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.
Mud System	WaterBasedMud	WaterBasedMud		
Depth MD / TVD (m)	731 / 731	560 / 560		
Time Sample Taken	14:00	21:45		
Flowline Temp (C)	10	12		
Pump Viscosity (sec/L)	28	46		
Mud Density (kg/m3)	1000	1005		
Hyd. Grad. (kPa/m)	9.81	9.86		
ECD (kg/m3)	1000	1045		
pH	STRIP	8.0	8.0	
Plastic Viscosity (mPa)			13.0	
Yield Point (Pa)			6.7	
Gel Strength (Pa) 10s/10min	0.5 / 0.5	2.0 / 2.5		
N Low / K low	/	0.45 / 1.44		
N Med / K med	/	0.57 / 0.79		
Filtrate (cm3/30min@700kPa)				
Filtrate (mm)				
RTNP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@	@		
Filtrate (mm)				
Sand Content (%)				
Total Solids (%)			0	
Corr. Solids (%)				
Oil Content (%)				
M.B.T. (kg/m3)				
HGS (kg/m3) / %	/	0.00 / 0.0		
LGS (kg/m3) / %	/	0.00 / 0.0		
Drilled solids (kg/m3)		0.00		
Bentonite (kg/m3)				
Avg. Density (kg/m3)				
Alkalinity (PF/MF)	/	0.0 / 0.2		
Hydroxyl (mg/L)				
Carbonate (mg/L)		24		
Bicarbonate (mg/L)		195		
Total Hardness (mg/L)		60		
Chlorides (mg/L)		160		
Potassium (mg/L)				
0.2 N HCl / 2.0 N HCl (cc%)	/	/		
Silicate % v/v / Silicate %	/	/		
Clear Fluid Density (kg/m3)	1000	1000		

Recommended Treatment - Suggestions

WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.			
Graveyards: Please mix 10 sxs of Cal Nitrate over 1 full circ.			
Once we are reaming, circulate system, allowing water from well to mix with viscosified fluid and thin back to 45-50 sec/L. Check FV frequently and add prehydrated slurry to system over even circs to increase FV as required.			
Maintain FV at 45 sec/L while reaming using premixes from pill tank.			
Once pill tank is 1/2-1/4 full, top up with water and mix Kelzan (30 min/sx) to increase FV to 100 sec/L.			
No other product is required at this time.			
Monitor volume in Rig tank, adding fluid to system as needed over full circs to maintain 50-55 m3.			
Monitor volumes and inform Engineer prior to needing more.			

Materials Used Since Last Check							
Products		Products		Products		Products	
Alkapam A-1103D	1	Calcium Carbonate 0	6	Calcium Carbonate 3	6		
Cellophane	3	Envirofloc	10	Kelzan XCD Polymer	2		
Kwik Seal Coarse	4	Sawdust	44	Ultra Pac R	1		
Ultraseal XP	2	XL Defoamer	3	MF-PAC R TM	0		
Potassium (mg/L)							

Cost Information

Cost Since Last Check	\$3,813.76	Total Cost to Date	\$42,230.09
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Marquis Alliance Representatives			
T.S.R.	Shannon Williams	Trucking Company	
Cell	780-691-2295	Warehouse	
Alternate	780-691-2295	Phone #	



Drilling Fluid Report

Well Name: Para Cameron Hills
Operator: Paramount Resources
Report For: John Williams (ph. 4038502645)

Current Activity: Drilling ahead 200mm Hole
Date: February 7, 2010
Check Number: 22
Spud Date: January 17, 2010
Days From Spud: 21
Location: M-74-60/10-11-15
Contractor: Precision 436
Report for: Terry Schaufert

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record				Casings				Drilling Assembly								Volumes (m3)		Hole Enlarge %		0	
Bit No.	2	Type	ID	OD	Set at (m)	Type	ID	OD	Length	Ann. Val.	Flow	Ann. Val.	Flow	Ann. Val.	Flow	Pipe Cap	3.5	Circulation Time			
Bit Size (mm)	200	Surface	205.6	219.0	378.0	D.C.	60.0	155.0	131.8	94.6	TUR		N/A		N/A	Ann. Vol.	15.9	BTM's Up	13		
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	51.1	TUR		N/A		N/A	Tank	37.0	Total	48		
Nozzles (mm)						D.P.	85.0	102.0	527.4	51.1	TUR		N/A	47.4	TUR	Tot. Ck. Vol	56.4	Water Added			
N1:	10.3	N2:	10.3			Other					N/A		N/A		N/A	Open Hole	10.6	Mud Lost			
N3:	10.3	N4:	10.3																		
N5:	10.3	N6:	10.3																		
N7:	10.3	N8:																			
TFA	583																				
Depth In	378																				
Depth Out																					
Hrs. on Bit																					
Drill Rate	24.0																				
R.P.M.																					
WOB (daN)																					
Nozzle Vel	33.9																				
Summary of Activity - Comments, Observations, Pilot Tests																					
Bit Press.	641	Check #1	Check #2	Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.																	
Mud System	WaterBasedMud			Feb 6 2010: Switched over to water from mud. Reduced strokes to 80spm to reduce water consumption. Reamed to 700m and regained circulation. Reamed to 731m with mud. Conditioned and POOH. P/U and RIH w/stinger assy to 731m. Washed bridges at 613, 628, 656m. Cemented plug 1. POOH - 499m. Circulated. RIH, feel plug top at 604m. Circulated. Pumped 2nd Cement plug. POO plug. Circulated/WOC.																	
Depth MD / TVD (m)	715	/	715	Feb 07 2010: Circulate while WOC. Feel plug at 535m. POOH. P/U BHA and RIH. Ream cement from 535m to 715m at time of mudcheck.																	
Time Sample Taken	22:00																				
Flowline Temp (C)	18																				
Funnel Viscosity (sec/L)	29																				
Mud Density (kg/m3)	1005																				
Hyd. Grad. (kPa/m)	9.86																				
ECD (kg/m3)	1008																				
pH	11.5																				
Plastic Viscosity (mPa)	2.0																				
Yield Point (Pa)	0.5																				
Gel Strength (Pa) 10s/10min	0.5 / 0.5																				
N Low / K low	0.28 / 0.32																				
N Med / K med	0.74 / 0.03																				
Filtrate (cm3/30min@700kPa)																					
Filtrate Cells (mm)																					
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@			@																	
Filtrate Cells (mm)																					
Sand Content (%)																					
Total Solids (%)																					
Conn. Solids (%)																					
Oil Content (%)																					
M.B.T. (kg/m3)																					
HGS (kg/m3) / %	/			/																	
LGS (kg/m3) / %	/			/																	
Drilled solids (kg/m3)																					
Bentonite (kg/m3)																					
Avg. Density (kg/m3)																					
Alkalinity (PPHMF)	2.6 / 2.8			/																	
Hydroxyl (mg/L)	816																				
Carbonate (mg/L)	240																				
Bicarbonate (mg/L)																					
Total Hardness (mg/L)	600																				
Chlorides (mg/L)	250																				
Potassium (mg/L)																					
0.2 N HCl / 2.0 N HCl (cc's)	/			/																	
Silicate % v/v / Silicate %	/			/																	
Clear Fluid Density (kg/m3)	1000																				
SiO2:K2O Ratio																					
Soluble Sulfides	HAC																				
Polymer (kg/m3)																					

Recommended Treatment - Suggestions

WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.

For Drilling Ahead: Calcium from cement is high enough that we should not have to mix Envirofloc.

1. Inject Alkapam 1103D as required to flocc the system. 5 visc cups per 1m3 in injection tank is good.
2. Run water at 5-10 L/min, this should help reduce pH for mud up.
3. Check calcium with regular mud check. Mix 5 sxs Envirofloc only if it drops below 500.

Main Hole Section Recommendations:

- Ensure a pH of less than 11.
- Mud up, adding premix over 2 circs. Top up with 2-3 sacks of Kelzan to achieve a 36-38 s/l viscosity and a 3-4 yield point.
- let pH drop naturally to 8-8.5.
- mix 8 shure shale into suction to inhibit formations while mudding up.
- once mudded up lower fluid loss to 6-8 with Ultracpac Lignite at 1:2 ratio and mix Hyperdrill 247RD to increase polymer content to 0.5 - 1 kg/m3 for encapsulating shale and clays.
- Monitor hole cleaning and connections. If required, increase FV to 40-45 sec/L using Millzan mix 1 sx per circ as required.

Prior to drilling into the sulphur point formation increase pH to 10-10.6 as H2S is present.

It is not required to treat out anhydrite contamination with this system.

If desired, mix Millzan to increase visc to 55-60 prior to wiper trip.

Increase viscosity to 70 s/l + for logging / casing operations. Lower Viscosity to 55-60 s/l and 5-8 yield point for cement operations with water in isolated suction with 5-6m3 of drilling fluid above suction.

Materials Used Since Last Check

Products	Products	Products
Kelzan XCD Polymer	1	

Cost Information

Cost Since Last Check	Total Cost to Date
\$997.35	\$47,446.74

Marquis Alliance Representatives

T.S.R	Shannon Williams	Trucking Company
Cell	780-691-2295	Warehouse
Alternate	780-691-2295	Phone #



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	John Williams (ph. 4038602645)

Current Activity	Drilling ahead 200mm Hole		
Date	February 8, 2010	Check Number	23
Spud Date	January 17, 2010	Days From Spud	22
Location	M-74-60/10-11-15		
Contractor	Precision 436		
Report for	Terry Schaufert		

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record		Casings				Drilling Assembly										Volumes (m3)		Hole Enlarge %	0		
Bit No.	2	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Open Hole Ann Val.	Flow	Linear Ann Val.	Flow	Casing Ann Val.	Flow	Pipe Cap.	4.8	Circulation Time			
Bit Size(mm)	200	Surface	205.6	219.0	378.0	D.C.	60.0	155.0	131.8	98.4	TUR		N/A		N/A	Ann Vol.	20.9	BTMs Up	17		
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	53.1	TUR		N/A		N/A	Tank	54.5	Total	65		
Nozzles (mm)						D.P.	85.0	102.0	743.4	53.1	TUR		N/A	49.3	TUR	Tot. Ck. Vol	80.2	Water Added			
N1:	10.3	N2:	10.3			Other					N/A		N/A		N/A	Open Hole	17.4	Mud Lost			
N3:	10.3	N4:	10.3			Solids Control Equipment										Pump Data					
N5:	10.3	N6:	10.3			V.G. Readings		Deviation Record													
N7:	10.3	N8:				Test	#1	#2	Depth	Inc	Dr	Type	Name	Screen Size	Screen Size	Screen Size	Screen Size	Model	F-800	F-800	
TFA	583					600	13					Shakers	Swaco Mong	120	120	84	84	Linear Dia	152	152	
Depth In	378					300	10											Stroke	229	229	
Depth Out						200						Type	Name	U.F. (kg/m3)	O.F. (kg/m3)	U.F. Rate (L/min)	Hours Run	Removal Rate (kg/hr)	Output(m3/stk oke)	0.0125	0.0125
Hrs. on Bit						100						Centrifuge	United					G.P.M.	104		
Drill Rate	24.0					6												Output(m3/min)	1.235		
R.P.M.						3	2											Total Output (m3/min)	1.235		
WOB (daN)						HHP		19.24										Press. (kPa)	2250		
N Pressure at Bit			30.98																		
Summary of Activity - Comments, Observations, Pilot Tests																					
Check #1																					
Check #2																					
Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.																					

Nozzle Vel	35.3				Summary of Activity - Comments, Observations, Pilot Tests									
Bit Press.	697	Check #1	Check #2		Remarks; Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.									
Mud System	WaterBasedMud				Feb 08 2010 : Drilled ahead from 742m to 951m at midnight. Started mixing to increase funnel visc to aid in hole cleaning. Temporarily stuck at 931m. Worked pipe free, conditioned mud to 30 visc and continued drilling ahead. Continued mixing Millzan to increase YP to 3 and increased gel strengths.									
Depth MD / TVD (m)	931	/	931	/										

Recommended Treatment - Suggestions	
WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/TAGS FOR MORE INFORMATION.	

Today's Additions :	
- mix 2 sxs of Pac R over 1 full circ.	
- maintain system at 36 visc w/Millzan and Pac R mixed 1:2 ratio	
Mud Up Report: The Depth for mud up will be determined by John (1100-1200m)	
- Mix 6 pails of Shure Shale at 30 min/pail through grating at suction.	
- Mix Millzan and Pac R at a 1:2 ratio, 1 round per circ to increase funnel visc to 40-45 sec/L.	
- Mix Ultra Pac R and Lignite at 1:2 ratio to lower WL to 6-8cc's/30min.	
- Maintain pH at 9.0-9.5 w/Caustic Soda mixed with H2O via chem barrel.	
- Mix 1 sx of Hyperdrill 247 through suction grating over 3-4 hrs.	

Maintain for Drilling:	
1. Viscosity @ 40-45 s/l with Millzan mixed evenly over full circs.	
2. Add 1 pail of Shure Shale per 75-100m new hole drilled.	
3. Mix 1 sx Hyperdrill 247 per 12 hr shift while drilling ahead.	
4. Maintain pH @ 9-9.5 with caustic through chemical barrel with cold water, mix caustic into water and add to system as required.	
5. Fluid loss @ 6-8cc with ultrapac and lignite @ 1:2 ratio evenly over circulation.	
6. Density ALAP with proper solids control. Run water @ 5-10 litres a minute to keep system hydrated.	
7. Prior to penetrating the Sulphur Point formation, ensure we increase pH to 10-10.5 using Caustic Soda, mixed via chem barrel 1 sx per circ as required.	

Materials Used Since Last Check			
Products		Products	
Citric Acid	10	Envirofloc	8
Ultra Pac R	1	Kelzan XCD Polymer	1

Cost Information			
Cost Since Last Check	\$2,698.99	Total Cost to Date	\$50,145.73
Marquis Alliance Representatives			
T.S.R	Shannon Williams	Trucking Company	
Cell	780-691-2295	Warehouse	
Alternate	780-691-2295	Phone #	



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	John Williams (ph. 4038602645)

Current Activity	Drilling ahead 200mm Hole		
Date	February 9, 2010	Check Number	24
Spud Date	January 17, 2010	Days From Spud	23
Location	M-74-60/10-11-15		
Contractor	Precision 436		
Report for	Terry Schaufert		

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Bit Record					Casings					Drilling Assembly							Volumes (m3)			Hole Enlarge %		0			
Bit No.	2	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Open Hole Ann Vel.	Flow	Linear Ann Vel.	Flow	Casing Ann Vel.	Flow	Pipe Cap.	5.9	Circulation Time							
Bit Size(mm)	200	Surface	205.6	219.0	378.0	D.C.	60.0	155.0	131.8	99.4	TUR		N/A		N/A	Ann Vol.	25.5	BTM's Up	20						
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	53.6	LAM		N/A		N/A	Tank	49.6	Total	65						
Nozzles (mm)						D.P.	85.0	102.0	942.4	53.6	LAM		N/A	49.8	LAM	Tot. Cir. Vol	81.0	Water Added							
N1:	10.3	N4:	10.3			Other					N/A		N/A		N/A	Open Hole	23.6	Mud Lost							
N3:	10.3	N2:	10.3			Solids Control Equipment											Pump Data								
N5:	10.3	N6:	10.3			Test	#1	#2	Depth	Inc	Dir	Type	Name	Screen Size	Screen Size	Screen Size	Model	F-800	F-800						
N7:	10.3	N8:				600	30					Shakers	Swaco Mong	120	120	84	84	Linear Dia	152	152					
TFA	583					300	22											Stroke	229	229					
Depth In	378					200	17					Type	Name	U.F. (kg/m3)	O.F. (kg/m3)	U.F. Rate (L/min)	Hours Run	Removal Rate (kg/hr)	Output(m3/hr cks)	0.0125	0.0125				
Depth Out						100	12					Centrifuge	United						S.P.M.	105					
Hrs. on Bit						6	5												Output(m3/min)	1.247					
Drill Rate	20.0					3	4												Total Output (m3/min)	1.247					
R.P.M.	93					HHP					20.19										Press. (kPa)	3772			
WOB (daN)						% Pressure at Bit					19.21														
Nozzle Vel	35.6																				Summary of Activity - Comments, Observations, Pilot Tests				
Bit Press.	725					Check #1					Check #2					Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges, etc.									
Mud System	WaterBasedMud					Feb 09 2010: Drilled ahead 200mm main hole from 951m-1130m at mudcheck. No problems reported on connections. Currently mudding up to reduce VVL and increase pH.																			
Depth MD / TVD (m)	1130 / 1130					Inventory performed today and reconciled. We will be trading out mudvans tomorrow.																			
Time Sample Taken	14:30																								
Flowline Temp (C)	28																								
Funnel Viscosity (sec/L)	35																								
Mud Density (kg/m3)	1030																								
Hyd. Grad. (kPa/m)	10.10																								
ECD (kg/m3)	1058					Recommended Treatment - Suggestions																			
pH ☒ STRIP ☐ METER	8.5					WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.																			
Plastic Viscosity (mPa)	8.5					Today's Additions :																			
Yield Point (Pa)	6.2					- continue adding Shure Shale as noted below.																			
Gel Strength (Pa) 10s/10min	2.5 / 3.5					- mix to increase pH as noted below.																			
N Low / K low	0.33 / 2.34					- maintain FV at 38-40 sec/L, no higher unless directed by Engineer.																			
N Med / K med	0.48 / 1.08					- ensure centrifuge is running. Inject as needed to maintain weight as low as possible.																			
Filtrate (cm3/30min@700kPa)	9.5					- trickle in water at 5-10 L/min to maintain volume at 40-45m3 and hydrate polymers.																			
Filtrate Cake (mm)	1.0					Mud Up Report: The Depth for mud up will be determined by John (1100-1200m)																			
HTHP FILTRATE @ C (cm3/30 min @ 3500 kPa)	@ @					- Mix 6 pails of Shure Shale at 30 min/pail through grating at suction.																			
Filtrate Cake (mm)						- Mix Millzan and Pac R at a 1:2 ratio, 1 round per circ to increase funnel visc to 40-45 sec/L.																			
Sand Content (%)						- Mix Ultra Pac R and Lignite at 1:2 ratio to lower WL to 6-8cc's/30min.																			
Total Solids (%)	1.875					- Maintain pH at 9.0-9.5 w/Caustic Soda mixed with H2O via chem barrel.																			
Conn. Solids (%)						- Mix 1 sx of Hyperdrill 247 through suction grating over 3-4 hrs.																			
Oil Content (%)						Maintain for Drilling:																			
M.B.T. (kg/m3)	10					1. Viscosity @38-40 sec/l with Millzan mixed evenly over full circs.																			
HGS (kg/m3) / %	0.00 / 0.0					2. Add 1 pail of Shure Shale per 75-100m new hole drilled from 1200m to TD.																			
LGS (kg/m3) / %	48.76 / 1.9					3. Mix 1 sx Hyperdrill 247 per 12 hr shift while drilling ahead.																			
Drilled solids (kg/m3)	38.76					4. Maintain pH @ 9-9.5 with caustic through chemical barrel with cold water, mix caustic into water and add to system as required.																			
Bentonite (kg/m3)						5. Fluid loss @ 6-8cc with ultrapac and lignite @ 1:2 ratio evenly over full circs.																			
Avg. Density (kg/m3)	2600					6. Density ALP with proper solids control. Run water @ 5-10 litres a minute to keep system hydrated.																			
Alkalinity (PF/MF)	0.0 / 0.4					7. Prior to penetrating the Sulphur Point formation, ensure we increase pH to 10-10.5 using Caustic Soda, mixed via chem barrel 1 sx per circ as required.																			
Hydroxyl (mg/L)						Materials Used Since Last Check																			
Carbonate (mg/L)	12					Products			Products			Products													
Bicarbonate (mg/L)	464					Alkapam A-1103D			3			Calcium Carbonate 0			15			Calcium Carbonate 3			17				
Total Hardness (mg/L)	700					Citric Acid			17			Kelzan XCD Polymer			7			Sawdust			16				
Chlorides (mg/L)	750					Sodium Bicarbonate			3			Ultra Pac R			1			Ultrasal XP			3				
Potassium (mg/L)																									
0.2 N HCl / 2.0 N HCl (cc's)	/ /					Cost Information																			
Silicate % v/v / Silicate %	/ /					Cost Since Last Check			\$7,722.97			Total Cost to Date			\$57,868.70										
Clear Fluid Density (kg/m3)	1000					Marquis Alliance Representatives																			
SiO2:K2O Ratio						T.S.R		Shannon Williams			Trucking Company														
Soluble Sulphides ☒ HAC ☐	0.00					Cell		780-691-2295			Warehouse														
Polymer (kg/m3)						Alternate		780-691-2295			Phone #														



Drilling Fluid Report

Well Name : Para Cameron Hills
Operator : Paramount Resources
Report For : John Williams (ph. 4038602645)

Current Activity : Drilling ahead 200mm Hole
Date : February 10, 2010
Check Number : 25
Spud Date : January 17, 2010
Days From Spud : 24
Location : M-74-60/10-11-15
Contractor : Precision 436
Report for : Terry Schaufert

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record		Casings			Drilling Assembly										Volumes (m3)		Hole Enlarge %		0	
Bit No.	2	Type	ID	OD	Set it(m)	Type	ID	OD	Length	Open Hole Ann Vel.	Flow	Ann Vel.	Flow	Ann Vel.	Flow	Pipe Cap.	7.6	Circulation Time		
Bit Size(mm)	200	Surface	205.6	219.0	378.0	D.C.	60.0	155.0	131.8	99.4	LAM		N/A		N/A	Ann Vel.	32.5	BTM's Up	26	
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	53.6	LAM		N/A		N/A	Tank	50.1	Total	72	
Nozzles (mm)						D.P.	85.0	102.0	1242.4	53.6	LAM		N/A	49.8	LAM	Tot. Cr. Vol	90.2	Water Added		
N1:	10.3	N2:	10.3			Other					N/A		N/A		N/A	Open Hole	33.0	Mud Lost		
N3:	10.3	N4:	10.3																	
N5:	10.3	N6:	10.3																	
N7:	10.3	N8:																		
TFA	583																			
Depth In	378																			
Depth Out																				
Hls. on Bit																				
Drill Rate	15.0																			
R.P.M.	88																			
WOB (daN)	5																			
Nozzle Vel	35.6																			
Bit Press.	728																			
Check #1																				
Check #2																				
Remarks	Feb 10 2010 : Continued drilling ahead 200mm main hole from 1254m to 1430m (mudcheck 2). Hole is cleaning good. Currently in Sulphur Point, drilling anhydrite, causing pH to drop. Mixing Caustic Soda to maintain.																			
Mud System	WaterBasedMud	WaterBasedMud																		
Depth MD / TVD (m)	1372	1372	1430	1430																
Time Sample Taken	11:00	17:00																		
Flowline Temp (C)	25	25																		
Funnel Viscosity (sec/L)	43	47																		
Mud Density (kg/m3)	1030	1035																		
Hyd. Grad. (kPa/m)	10.10	10.15																		
ECD (kg/m3)	1067	1083																		
pH	STRIP	METER	11.0	10.0																
Plastic Viscosity (mPa)	12.0	14.0																		
Yield Point (Pa)	8.6	11.5																		
Gel Strength (Pa) 10s/10min	3.0 / 4.0	3.0 / 4.5																		
N Low / K low	0.42 / 2.01	0.44 / 2.45																		
N Med / K med	0.49 / 1.46	0.45 / 2.26																		
Filtrate (cm3/30min@700kPa)	9.0	8.5																		
Filtrate Cake (mm)	0.5	0.5																		
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@	@																		
Filtrate Cake (mm)																				
Sand Content (%)	.25	.5																		
Total Solids (%)	1.875	2.1875																		
Conn. Solids (%)																				
Oil Content (%)																				
M.B.T. (kg/m3)	10	10																		
HGS (kg/m3) / %	0.00 / 0.0	0.00 / 0.0																		
LGS (kg/m3) / %	48.76 / 1.9	56.88 / 2.2																		
Drilled solids (kg/m3)	38.76	46.88																		
Bentonite (kg/m3)																				
Avg. Density (kg/m3)	2600	2600																		
Alkalinity (PF/MF)	2.0 / 2.6	0.4 / 0.5																		
Hydroxyl (mg/L)	476	102																		
Carbonate (mg/L)	720	120																		
Bicarbonate (mg/L)																				
Total Hardness (mg/L)	120	320																		
Chlorides (mg/L)	750	750																		
Potassium (mg/L)																				
0.2 N HCl / 2.0 N HCl (cc/L)	/	/																		
Silicate % v/v / Silicate %	/	/																		
Clear Fluid Density (kg/m3)	1000	1000																		
SiO2/K2O Ratio																				
Soluble Solids	HAC																			
Polymer (kg/m3)	0.50	0.50																		

Summary of Activity - Comments, Observations, Pilot Tests

Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.

Feb 10 2010 : Continued drilling ahead 200mm main hole from 1254m to 1430m (mudcheck 2). Hole is cleaning good. Currently in Sulphur Point, drilling anhydrite, causing pH to drop. Mixing Caustic Soda to maintain.

No problems reported on connections.
Mud looks good for wiper trip.

Recommended Treatment - Suggestions

WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.

Today's Additions :

- maintain FV at 47-50 sec/L, no higher unless directed by Engineer.
- ensure centrifuge is running.
- trickle in water at 5-10 L/min to maintain volume at 40-45m3 and hydrate polymers.

Maintain for Drilling:

1. Viscosity @48-50 sec/L with MF Vis mixed evenly over full circs.
2. Maintain pH @ 9-9.5 with caustic through chemical barrel with cold water, mix caustic into water and add to system as required.
3. Fluid loss @ 6-8cc with Ultracpac R, Stardrill and Lignite @ 1:2:3 ratio evenly over full circs.
4. Density ALAP with proper solids control. Run water @ 5-10 litres a minute to keep system hydrated.
5. Prior to penetrating the Sulphur Point formation, ensure we increase pH to 10-10.5 using Caustic Soda, mixed via chem barrel 1 sx per circ as required.

For TD : mix MF Vis, 2 sxs per circ to increase funnel visc to 55-60.

Materials Used Since Last Check

Products	Products	Products	Products
Alkapam A-1103D	1	Barite	44
Calcium Carbonate 3	-21	Caustic Soda	2
Drilling Detergent	-3	Hyperdrill AF247RD	-1
Lignite	4	Sawdust	10
TKPP	-4	Ultra Pac R	11

Cost Information

Cost Since Last Check	Total Cost to Date
\$9,704.42	\$67,573.12

Marquis Alliance Representatives

T.S.R	Shannon Williams	Trucking Company
Cell	780-691-2295	Warehouse
Alternate	780-691-2295	Phone #



Drilling Fluid Report

Well Name: Para Cameron Hills
Operator: Paramount Resources
Report For: John Williams (ph. 4038602645)

Current Activity	Condition to run csg		
Date	February 11, 2010	Check Number	27
Spud Date	January 17, 2010	Days From Spud	25
Location	M-74-60/10-11-15		
Contractor	Precision 436		
Report for	Terry Schaufert		

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Bit Record				Casings				Drilling Assembly										Volumes (m3)		Hole Enlarge %	
Bit No.	2	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Open Hole Ann Vel.	Flow	Ann Vel.	Flow	Ann Vel.	Flow	Pipe Cap	7.8	Circulation Time			
Bit Size(mm)	200	Surface	205.6	219.0	378.0	D.C.	60.0	155.0	131.8	81.4	LAM		N/A		N/A	Ann Vol.	33.5	BTM's Up	33		
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	43.9	LAM		N/A		N/A	Tank	12.5	Total	53		
Nozzles (mm)						D.P.	85.0	102.0	1287.4	43.9	LAM		N/A	40.8	LAM	Tot. Clr. Vol	53.9	Water Added			
N1:	10.3	N2:	10.3			Other					N/A		N/A			Open Hole	34.5	Mud Lost			
N3:	10.3	N4:	10.3																		
N5:	10.3	N6:	10.3																		
N7:	10.3	N8:																			
TFA	583																				
Depth In	378																				
Depth Out																					
Hrs. on Bit																					
Drill Rate																					
R.P.M.	88																				
WOB (kN)	5																				
Nozzle Vel	29.2																				
Bit Press.	491																				
Mud System	WaterBasedMud																				
Depth MD / TVD (m)	1475																				
Time Sample Taken	04:22																				
Flowline Temp (C)	28																				
Funnel Viscosity (sec/L)	57																				
Mud Density (kg/m3)	1040																				
Hyd. Grad. (kPa/m)	10.20																				
ECD (kg/m3)	1101																				
pH	11.0																				
Plastic Viscosity (mPa)	16.0																				
Yield Point (Pa)	15.8																				
Gel Strength (Pa) 10s/10min	5.0																				
N Low / K low	0.36																				
N Med / K med	0.41																				
Filtrate (cm3/30min@700kPa)	6.0																				
Filter Cake (mm)	0.5																				
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@																				
Filter Cake (mm)																					
Sand Content (%)																					
Total Solids (%)	2.5																				
Con. Solids (%)																					
Oil Content (%)																					
M.B.T. (kg/m3)	15																				
HGS (kg/m3) / %	0.00																				
LGS (kg/m3) / %	65.01																				
Drilled solids (kg/m3)	50.01																				
Bentonite (kg/m3)																					
Avg. Density (kg/m3)	2600																				
Alkalinity (PF/MF)																					
Hydroxyl (mg/L)																					
Carbonate (mg/L)																					
Bicarbonate (mg/L)																					
Total Hardness (mg/L)	520																				
Chlorides (mg/L)	850																				
Potassium (mg/L)																					
0.2 N HCl / 2.0 N HCl (cc's)																					
Silicate % v/v / Silicate %																					
Clear Fluid Density (kg/m3)	1000																				
SiO2:K2O Ratio																					
Soluble Sulfides																					
Polymer (kg/m3)	0.25																				

Summary of Activity - Comments, Observations, Pilot Tests			
Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.			
Feb 10 2010: Drilled ahead 200mm mainhole from 1254m to 1473m. Circ'd to condition mud.			
Feb 11 2010: POOH to shoe. RIH, kelly'd up and washed/reamed tight hole from 1434m to 1473m. Conditioned mud for 16 YP (57 funnel visc). Circulated double btms up, and hoist for logs.			
Recommended Treatment - Suggestions			
WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.			
Maintain for Drilling: 1. Viscosity @48-50 sec/L with MF Vis mixed evenly over full circs. 2. Maintain pH @ 9-9.5 with caustic through chemical barrel with cold water, mix caustic into water and add to system as required. 3. Fluid loss @ 6-8cc with Ultracpac R, Stardrill and Lignite @ 1:2:3 ratio evenly over full circs. 4. Density ALAP with proper solids control. Run water @ 5-10 litres a minute to keep system hydrated. 5. Prior to penetrating the Sulphur Point formation, ensure we increase pH to 10-10.5 using Caustic Soda, mixed via chem barrel 1 sxs per circ as required. For TD : mix MF Vis, 2 sxs per circ to increase funnel visc to 55-60. On wiper trip to L/D pipe : circulate while adding fresh H2O at 15 L/min to help hydrate mud system. Cement : Isolate to one suction, mix 3 sxs Desco CF and run water at 20 L/min to reduce funnel visc to 35-38 sec/L.			
Materials Used Since Last Check			
Products		Products	
Alkpacam A-1103D	1	Calcium Carbonate 0	5
Caustic Soda	7	Hyperdrill AF247RD	1
MF - VIS TM	3	Shure Shale	1
		Ultra Pac R	6
Cost Information			
Cost Since Last Check	\$4,448.39	Total Cost to Date	\$72,021.51
Marquis Alliance Representatives			
T.S.R.	Shannon Williams	Trucking Company	
Cell	780-691-2295	Warehouse	
Alternate	780-691-2295	Phone #	



Drilling Fluid Report

Well Name: Para Cameron Hills
Operator: Paramount Resources
Report For: John Williams (ph. 4038602645)

Current Activity: Condition to log/run csg.
Date: February 12, 2010
Check Number: 28
Spud Date: January 17, 2010
Days From Spud: 26
Location: M-74-60/10-11-15
Contractor: Precision 436
Report for: Terry Schaufert

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record				Casings				Drilling Assembly										Volumes (m3)	Hole Enlarge %
Bit No.	2	Type	ID	OD	Set at (m)	Type	ID	OD	Length	Ann Vel.	Flow	Ann Vel.	Flow	Ann Vel.	Flow	Pipe Cap.	7.8	Circulation Time	
Bit Size (mm)	200	Surface	205.6	219.0	378.0	D.C.	60.0	155.0	131.8	76.7	LAM		N/A		N/A	Ann Vel.	33.5	8M's Up	35
Type	VTD513HX					H.W.D.P.	62.0	102.0	55.8	41.4	LAM		N/A		N/A	Tank	12.5	Total	56
Nozzles (mm)						D.P.	85.0	102.0	1285.4	41.4	LAM		N/A	38.4	LAM	Tot. Cr. Vol	53.8	Water Added	
N1	10.3	N2	10.3			Other					N/A		N/A		N/A	Open Hole	34.4	Mud Lost	
N3	10.3	N4	10.3																
N5	10.3	N6	10.3																
N7	10.3	N8																	
TFA	583																		
Depth In	378																		
Depth Out																			
Hrs. on Bit																			
Drill Rate																			
R.P.M.	88																		
WOB (daN)	5																		
Nozzle Vel	27.5																		
Bit Press.	435																		
Summary of Activity - Comments, Observations, Pilot Tests																			
Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.																			

Nozzle Vel		27.5		Summary of Activity - Comments, Observations, Pilot Tests																													
Bit Press.		435		Check #1		Check #2		Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.																									
Mud System				WaterBasedMud				Feb 11 2010 : POOH to shoe. RIH, Kelly'd up and washed/reamed tight hole from 1434m to 1473m. Conditioned mud for 16 YP (57 funnel visc). Circulated double btms up, and hoist for logs. Log well (STI/MDA/SPED/CNT/MRT/DAC/UGR/CALF/WCCB) to 1456.3m. 17m of fill reported.																									
Depth MD / TVD (m)				1473		/ 1473		/		Feb 12 2010 :Rigged out loggers. RIH w/tricone. Kelly up and ream tight hole from 902-910m. RIH. Ream/wash from 1431m to 1473m (TD). Increased FV to 86 sec/L.																							
Time Sample Taken				08:10																													
Flowline Temp (C)				26																													
Funnel Viscosity (sec/L)				86																													
Mud Density (kg/m3)				1040						Recommended Treatment - Suggestions																							
Hyd. Grad. (kPa/m)				10.20																													
ECD (kg/m3)				1127						WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS'S/LABELS FOR MORE INFORMATION.																							
pH ☒ STRIP ☐ METER				9.0						Today : Mix MF - Vis at 25 min/sx to increase visc to over 80 sec/L. Add Caustic Soda via Chem Barrel to increase pH to 10-10.5.																							
Plastic Viscosity (mPa)				21.0																													
Yield Point (Pa)				23.0																													
Gel Strength (Pa) 10s/10min				9.0		/ 11.0		/ /																									
N Low / K low				0.33		/ 8.11		/ /																									
N Med / K med				0.38		/ 6.33		/ /																									
Filtrate (cm3/30min@700kPa)				6.0																													
Filter Cake (mm)				0.5																													
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)				@				@																									
Filter Cake (mm)																										On wiper trip to L/D pipe : circulate while adding fresh H2O at 15 L/min to help hydrate mud system. United (Travis) will be stripping fluid back when we start to hoist to l/d pipe. Cement : Isolate to one suction, mix 4 sxs Desco CF at 15-20 min/sx, dependent on circulation rate and run water at 20 L/min to reduce funnel visc to 35-40 sec/L. Strip fluid back to 1030 wt with centrifuge. Thanks, Shannon							
Sand Content (%)																																	
Total Solids (%)				2.5																													
Conn. Solids (%)																																	
Oil Content (%)																																	
M.B.T. (kg/m3)				15																													
HGS (kg/m3) / %				0.00		/ 0.0		/ /																									
LGS (kg/m3) / %				65.01		/ 2.5		/ /																									
Drilled solids (kg/m3)				50.01																													
Bentonite (kg/m3)																																	
Avg. Density (kg/m3)				2600																													
Alkalinity (PF/MF)				0.1		/ 0.8		/ /																									
Hydroxyl (mg/L)										Materials Used Since Last Check																							
Carbonate (mg/L)				120						Products								Products								Products							
Bicarbonate (mg/L)				732						MF - VIS TM				3				Ultra Pac R				3											
Total Hardness (mg/L)				520																													
Chlorides (mg/L)				1000																													
Potassium (mg/L)																																	
0.2 N HCl / 2.0 N HCl (cc's)				/				/		Cost Information																							
Silicate % v/v / Silicate %				/				/																									
Clear Fluid Density (kg/m3)				1000						Cost Since Last Check				\$2,585.53				Total Cost to Date				\$74,607.04											
SiO2:H2O Ratio										Marquis Alliance Representatives																							
Soluble Sulfides ☐ HAC ☐										T.S.R				Shannon Williams				Trucking Company															
Polymer (kg/m3)				0.50						Cell				780-691-2295				Warehouse															
										Alternate				780-691-2295				Phone #															

Drilling Fluid Report



Drilling Fluid Report

Well Name: Para Cameron Hills
Operator: Paramount Resources
Report For: John Williams (ph. 4038602645)

Current Activity: Rigging out
Date: February 14, 2010
Check Number: 30
Spud Date: January 17, 2010
Days From Spud: 28
Location: M-74-60/10-11-15
Contractor: Precision 436
Report for: Terry Schaufert

In consideration of the furnishing of this report and oral suggestions, it is agreed that no recommendations made hereon shall be construed as authorizing the infringement of any valid patent, and it is agreed that Marquis Alliance Energy Group Inc. shall not be liable for any damages resulting from the furnishing of this report and oral suggestions and is to be held harmless.

Bit Record				Casings				Drilling Assembly								Volumes (m3)		Hole Enlarge %		15	
Bit No.	2	Type	ID	OD	Set at (m)	Type	ID	OD	Length	Open Hole Ann Vel	Flow	Liner Ann Vel	Flow	Casing Ann Vel	Flow	Pipe Cap	18.7	Circulation Time			
Bit Size (mm)	200	Surface	205.6	219.0	378.0	D.P.	127.0	139.7	1473.0	56.8	N/A		N/A	58.8	N/A	Ann Vol	27.0	BTMs Up	26		
Type	VTD513HX					Other				N/A		N/A		N/A		Tank	8.5	Total	52		
Nozzles (mm)						Other				N/A		N/A		N/A		Tot. Cl. Vol	54.2	Water Added			
N1	25.4	N2	25.4			Other				N/A		N/A		N/A		Open Hole	37.0	Mud Lost			
N3	25.4	N4																			
N5		N6																			
N7		N8																			
TFA	1520																				
Depth In	378																				
Depth Out	1473																				
Hrs. on Bit																					
Drill Rate																					
R.P.M.	88	HHP			0.00																
WOB (daN)	5	% Pressure at Bit			0.00																
Nozzle Vel	0.0																				
Bit Press.	0	Check #1			Check #2																
Mud System	WaterBasedMud																				
Depth MD / TVD (m)	1473 / 1473																				
Time Sample Taken	09:14																				
Flowline Temp (C)																					
Funnel Viscosity (sec/L)																					
Mud Density (kg/m3)																					
Hyd. Grad. (kPa/m)																					
ECD (kg/m3)	0																				
pH	STRIP	METER																			
Plastic Viscosity (mPa)																					
Yield Point (Pa)																					
Gel Strength (Pa) 10s/10min																					
N Low / K low																					
N Med / K med																					
Filtrate (cm3/30min@700kPa)																					
Filter Cake (mm)																					
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)		@			@																
Filter Cake (mm)																					
Sand Content (%)																					
Total Solids (%)																					
Con. Solids (%)																					
Oil Content (%)																					
M.B.T. (kg/m3)																					
HGS (kg/m3) / %																					
LGS (kg/m3) / %																					
Drilled solids (kg/m3)																					
Bentonite (kg/m3)																					
Aug. Density (kg/m3)																					
Alkalinity (PF/MF)																					
Hydronyl (mg/L)																					
Carbonate (mg/L)																					
Bicarbonate (mg/L)																					
Total Hardness (mg/L)																					
Chlorides (mg/L)																					
Potassium (mg/L)																					
0.2 N HCl / 2.0 N HCl (cc's)																					
Silicate % v/v / Silicate %																					
Clear Fluid Density (kg/m3)	1000																				
SiO2/K2O Ratio																					
Soluble Sulfides																					
Polymer (kg/m3)																					

Summary of Activity - Comments, Observations, Pilot Tests

Remarks: Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.

Rigging out and Moving Rig to B-09

Recommended Treatment - Suggestions

WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS LABELS FOR MORE INFORMATION.

Strip fluid back to 1030 wt with centrifuge, and prepare all product for rig move.

Great job mixing on this job guys, mud was always in great shape.

Thanks,
Shannon

Materials Used Since Last Check

Products	Products	Products			
Alkapam A-1103D	2	Caustic Soda	1	Citric Acid	2
Desco	7	Drilling Detergent	2	Envirofloc	44
Hyperdrill AF247RD	2	Kelzan XCD Polymer	3	Lignite	6
Lime-Hydrated-20 KG	1	MF - VIS TM	2	Sawdust	94
Shure Shale	4	Soda Ash (25)	2	Stardril	9

Cost Information

Cost Since Last Check	Total Cost to Date
\$10,356.02	\$88,876.34

Marquis Alliance Representatives

T.S.R	Shannon Williams	Trucking Company
Cell	780-691-2295	Warehouse
Alternate	780-691-2295	Phone #



Paramount
resources Ltd.

Cement

Cement Plug #1

Well Name: PARA ET AL CAMERON M-74

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063	State/Province NT	Well Configuration Type VERT
Ground Elevation (m) 777.93	Casing Flange Elevation (m) 778.16	KB-Ground Distance (m) 4.20	KB-Casing Flange Distance (m) 3.97	Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010

Cement Details

Description Cement Plug #1	Cementing Start Date 1/28/2010 23:01	Cementing End Date 1/28/2010 23:16	Wellbore Name Original Hole
Comment			

Cement Stages

Stage # <Stage Number?>

Description		Objective		Top (mKB)		Bottom (mKB)		Full Return? No		Cmnt Rtn (m³)		Top Plug? No		Bottom Plug? No	
Q (start) (m³/min)		Q (end) (m³/min)		Q (avg) (m³/min)		P (final) (kPa)		P (bump) (kPa)		Recip? No		Stroke (m)		Rotated? No	
Pipe RPM (rpm)															
Depth tagged (mKB)				Tag Method				Depth Plug Drilled Out To (mKB)				Drill Out Diameter (mm)			

Cement Fluids & Additives

Fluid

Fluid Type	Fluid Description	Estimated Top (mKB)	Estimated Bottom (mKB)	Cement Amount (tonnes)	Class	Volume Pumped (m³)
Yield (m³/tonnes)	Mix H2O Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)

Additives

Additive	Type	Concentration	Conc Unit label
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Paramount
resources ltd.

Cement

Cement Plug #2

Well Name: PARA ET AL CAMERON M-74

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063	State/Province NT	Well Configuration Type VERT
Ground Elevation (m) 777.93	Casing Flange Elevation (m) 778.16	KB-Ground Distance (m) 4.20	KB-Casing Flange Distance (m) 3.97	Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010

Cement Details

Description Cement Plug #2	Cementing Start Date 1/29/2010 06:57	Cementing End Date 1/29/2010 07:14	Wellbore Name Original Hole
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Comment

Plug unsuccessful due to poor bonding on LCM "Frac Attack"

Cement Stages

Stage # <Stage Number?>

Description	Objective	Top (mKB)	Bottom (mKB)	Full Return? No	Cmnt Rtn (m³)	Top Plug? No	Bottom Plug? No
Q (start) (m³/min)	Q (end) (m³/min)	Q (avg) (m³/min)	P (final) (kPa)	P (bump) (kPa)	Recip? No	Stroke (m)	Rotated? No
Depth tagged (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)	Estimated Bottom (mKB)	Cement Amount (tonnes)	Class	Volume Pumped (m³)
Yield (m³/tonnes)	Mix H2O Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)

Additives

Additive	Type	Concentration	Conc Unit label
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Paramount
resources ltd.

Cement

Cement Plug #3

Well Name: PARA ET AL CAMERON M-74

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063	State/Province NT	Well Configuration Type VERT
Ground Elevation (m) 777.93	Casing Flange Elevation (m) 778.16	KB-Ground Distance (m) 4.20	KB-Casing Flange Distance (m) 3.97	Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010

Cement Details

Description Cement Plug #3	Cementing Start Date 1/31/2010 04:44	Cementing End Date 1/31/2010 05:05	Wellbore Name Original Hole
Comment			

Cement Stages

Stage # <Stage Number?>

Description		Objective		Top (mKB)		Bottom (mKB)		Full Return? No		Cmnt Rtn (m³)		Top Plug? No		Bottom Plug? No			
Q (start) (m³/min)		Q (end) (m³/min)		Q (avg) (m³/min)		P (final) (kPa)		P (bump) (kPa)		Recip? No		Stroke (m)		Rotated? No		Pipe RPM (rpm)	
Depth tagged (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)	Estimated Bottom (mKB)	Cement Amount (tonnes)	Class	Volume Pumped (m³)
Yield (m³/tonnes)	Mix H2O Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)

Additives

Additive	Type	Concentration	Conc Unit label
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Paramount
resources ltd.

Cement

Cement Plug #4

Well Name: PARA ET AL CAMERON M-74

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063	State/Province NT	Well Configuration Type VERT
Ground Elevation (m) 777.93	Casing Flange Elevation (m) 778.16	KB-Ground Distance (m) 4.20	KB-Casing Flange Distance (m) 3.97	Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010

Cement Details

Description Cement Plug #4	Cementing Start Date 1/31/2010 23:01	Cementing End Date 1/28/2010 23:16	Wellbore Name Original Hole
Comment Set 189m Plug from 712m - 523m			

Cement Stages

Stage # <Stage Number?>

Description		Objective		Top (mKB)		Bottom (mKB)		Full Return? No		Cmnt Rtn (m³)		Top Plug? No		Bottom Plug? No			
Q (start) (m³/min)		Q (end) (m³/min)		Q (avg) (m³/min)		P (final) (kPa)		P (bump) (kPa)		Recip? No		Stroke (m)		Rotated? No		Pipe RPM (rpm)	
Depth tagged (mKB)				Tag Method				Depth Plug Drilled Out To (mKB)				Drill Out Diameter (mm)					

Cement Fluids & Additives

Fluid

Fluid Type	Fluid Description	Estimated Top (mKB)	Estimated Bottom (mKB)	Cement Amount (tonnes)	Class	Volume Pumped (m³)
Yield (m³/tonnes)	Mix H2O Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)

Additives

Additive	Type	Concentration	Conc Unit label
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Paramount
resources ltd.

Cement

Cement Plug #5

Well Name: PARA ET AL CAMERON M-74

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063	State/Province NT	Well Configuration Type VERT
Ground Elevation (m) 777.93	Casing Flange Elevation (m) 778.16	KB-Ground Distance (m) 4.20	KB-Casing Flange Distance (m) 3.97	Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010

Cement Details

Description Cement Plug #5	Cementing Start Date 2/1/2010 02:45	Cementing End Date 2/1/2010 03:00	Wellbore Name Original Hole
Comment			

Cement Stages

Stage # <Stage Number>

Description		Objective		Top (mKB)		Bottom (mKB)		Full Return? No		Cmnt Rtrn (m³)		Top Plug? No		Bottom Plug? No			
Q (start) (m³/min)		Q (end) (m³/min)		Q (avg) (m³/min)		P (final) (kPa)		P (bump) (kPa)		Recip? No		Stroke (m)		Rotated? No		Pipe RPM (rpm)	
Depth tagged (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)	Estimated Bottom (mKB)	Cement Amount (tonnes)	Class	Volume Pumped (m³)
Yield (m³/tonnes)	Mix H2O Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)

Additives

Additive	Type	Concentration	Conc Unit label
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Paramount
resources ltd.

Cement

Side Track #1

Well Name: **PARA ET AL CAMERON M-74**

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063	State/Province NT	Well Configuration Type VERT
Ground Elevation (m) 777.93	Casing Flange Elevation (m) 778.16	KB-Ground Distance (m) 4.20	KB-Casing Flange Distance (m) 3.97	Spud Date 1/17/2010 07:30	Rig Release Date 2/14/2010

Cement Details

Description Side Track #1	Cementing Start Date 2/2/2010 09:30	Cementing End Date 2/2/2010 09:32	Wellbore Name Original Hole
Comment Tagged @ 467 m			

Cement Stages

Stage # <Stage Number>

Stage 1 - Stage Number: 1											
Description		Objective		Top (mKB)		Bottom (mKB)		Full Return? No	Cmnt Rtn (m³)	Top Plug? No	Bottom Plug? No
Q (start) (m³/min)	Q (end) (m³/min)	Q (avg) (m³/min)	P (final) (kPa)	P (bump) (kPa)	Recip? No	Stroke (m)	Rotated? No	Pipe RPM (rpm)			
Depth tagged (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)	Estimated Bottom (mKB)	Cement Amount (tonnes)	Class	Volume Pumped (m³)
Yield (m³/tonnes)	Mix H2O Ratio (m³/tonnes)	Free Water (%)	Density (kg/m³)	Plastic Viscosity (cp)	Thickening Time (hrs)	CmprStr 1 (kPa)

Additives

Additive	Type	Concentration	Conc Unit label
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Daily Completion and Workover

PARA ET AL CAMERON M-74

Rig:

Business Unit: NE BC & NWT COU

Report Date: 2/23/2010

Report #: 1.0

Total AFE Amount: 298,896.00

AFE Number: 10N020021

Daily Cost Total: 37,869

Cum Cost to Date: 37,869

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Well Configuration Type VERT	Casing Flange Elevation (m) 778.16	Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13
Last Casing String	PBTD (All) (mKB)	Casing Pressure (kPa) 0	Tubing Pressure (kPa) 0

Objective

Evaluate Sulphur Point Dolomite as oil well .

Operations Summary

Finished swabbing on H - 06 , move rig and equipment to M - 74 . Rig up rig and equipment .

Operations Next Report Period

Pull out of hole bit and scrapper

Road Condition good	Weather Cloudy	Start Date 2/23/2010	End Date
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

Daily Contacts

Title	Job Contact	Mobile
P Engineer	Dick Heenan	403 818 - 4408
Consultant	Kim MacLeod	780 542 - 1897
Rig Manager	Dwayne Palmer	403 357 - 6841

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
19:00	19:30	0.50	0.50	Crew change , held pre - job safety meeting on rigging in steam lines to well head . Walk around equipment . Bubble test on surface casing vent good .
19:30	21:00	1.50	2.00	Finish spotting rig equipment on location , spot rig mats with picker . Stand 2 - 60m3 tanks with bed truck .
21:00	23:00	2.00	4.00	Rig in rig , pump , tank and boiler . Stump test class III BOP stack , good test .
23:00	01:00	2.00	6.00	Nipple down well head , nipple up class III BOP stack . Function and pressure test , good test . Rig in work floor and tubing equipment .
01:00	06:00	5.00	11.00	Make up on cat walk 139.7mm scrapper and 120mm bit , run into hole with bit and scrapper , 157 - joint's yellow band tubing . Tally and drift on way into hole . Tag @ 1455.93mKB .
06:00	07:00	1.00	12.00	Rig up pump lines to well head , pressure test lines . Reverse circulate down casing tubing returns to rig tank . Crew change

Report Fluids Summary

Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Other			0.00	0.00
Water	0.00	0.00	0.00	0.00

Perforations

Date	Zone	Top (mKB)	Bitm (mKB)	Current Status
2/24/2010	Sulphur Point, Original Hole	1,421.50	1,425.00	

Tubing Components

Item Description	Top (mKB)

Casing Strings

Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	J-55	35.716	377.00
Production	J-55	20.834	1,473.00



Paramount
resources ltd.

Daily Completion and Workover

PARA ET AL CAMERON M-74

Rig:

Business Unit: NE BC & NWT COU

Report Date: 2/24/2010

Report #: 2.0

Total AFE Amount: 298,896.00

AFE Number: 10N020021

Daily Cost Total: 50,331

Cum Cost to Date: 88,200

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Well Configuration Type VERT	Casing Flange Elevation (m) 778.16	Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13
Last Casing String	PBTD (All) (mKB)	Casing Pressure (kPa) 0	Tubing Pressure (kPa) 0

Objective

Evaluate Sulphur Point Dolomite as oil well.

Operations Summary

POOH with bit and scrapper, bond log. Swab down casing with service rig to 1200. Perforate Sulphur point. Monitor pressures on casing.

Operations Next Report Period

Mud wash

Road Condition good	Weather Cloudy	Start Date 2/23/2010	End Date
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Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)
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Daily Contacts

Title	Job Contact	Mobile
P Engineer	Dick Heenan	403 818 - 4408
Consultant	Kim MacLeod	780 542 - 1897
Rig Manager	Dwayne Palmer	403 357 - 6841

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
07:00	07:30	0.50	0.50	Crew change, held pre - job safety meeting on circulating lines in cold weather. Walk around equipment.
07:30	08:30	1.00	1.50	Finish circulating down casing, total pumped 20m3. Rig down pump lines.
08:30	10:30	2.00	3.50	Pull and lay down 6 - joint's onto pipe racks, continue pulling out of hole standing in derrick. Lay down bit and scrapper onto cat walk. Clean up work floor.
10:30	14:30	4.00	7.50	Rig in pure energy E - line truck, held safety meeting with all personal on location. Run into hole with CBL bond log, tag PBTD @ 1455.8mkb. Log from PBTD to surface. Top of cement @ 400m, finish pulling out of hole. Rig down e - line truck. Stand - by on location.
14:30	18:30	4.00	11.50	Rig in casing swab equipment, swab to rig tank. Swab casing down to 1200m. Pulled 15 - swabs and recovered 14.07m3 water. Rig down casing swab equipment.
18:30	19:00	0.50	12.00	Held safety meeting with all personal on location, turn off phones on location. Crew change.
19:00	19:30	0.50	12.50	Crew Change, held pre - job safety meeting on wireline operations. Continue running into hole with Pure Energy gun.
19:30	21:30	2.00	14.50	Run into hole with Pure Energy gun, tools failed on way into hole. Pulled out of head, re - tie head. Function tool good.
21:30	23:30	2.00	16.50	Run into hole with 101mm gun, ERHSC, 17 SPM, 25 gram SDP, 60 degree phasing. Log into place @ 1421.5m - 1425mKB, fire gun. Gun @ surface, SICP @ 1,645 in 1 - hour. Rig down and release e - line truck, bleed off to vessel.
23:30	02:00	2.50	19.00	Continue monitoring pressures, shut in casing for 15 min SICP @ 631 kPa. Rig in pump line, pump 10m3 3% KCL down casing. Monitor for 15 minutes, built up to 852 kPa. Bleed off casing to vessel, pump 8m3 3% KCL water down casing. Monitor for 15 minutes, casing dead.
02:00	05:00	3.00	22.00	Run into hole with re - entry guide, 1 - joint tubing 73mm, 1 - pup joint C / W 6 holes, API pump seating nipple 57.9mm, 4 - joint's tubing, weatherford tubing anchor (sheare @ 40,000 daN), 149 joint's 73mm yellow band tubing. Land tubing hanger. T.E @ 1445.58mKB, PSN @ 1434.91mKB, Tubing anchor @ 1395.79mKB.
05:00	07:00	2.00	24.00	Rig in swab equipment, swab to vessel. First swab fluid @ surface, recovered .7m3. Continue swabbing to vessel.

Report Fluids Summary

Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Other			0.00	0.00
Water	38.00	34.07	34.07	3.93

Perforations

Date	Zone	Top (mKB)	Btm (mKB)	Current Status
2/24/2010	Sulphur Point, Original Hole	1,421.50	1,425.00	

Tubing Components

Item Description	Top (mKB)
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Casing Strings

Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	J-55	35.716	377.00
Production	J-55	20.834	1,473.00



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Daily Completion and Workover

PARA ET AL CAMERON M-74

Rig:

Business Unit: NE BC & NWT COU

Report Date: 2/25/2010

Report #: 3.0

Total AFE Amount: 298,896.00

AFE Number: 10N020021

Daily Cost Total: 62,053

Cum Cost to Date: 150,253

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Well Configuration Type VERT	Casing Flange Elevation (m) 778.16	Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13
Last Casing String	PBTD (All) (mKB)	Casing Pressure (kPa) 0	Tubing Pressure (kPa) 0

Objective

Evaluate Sulphur Point Dolomite as oil well .

Operations Summary

Swab tubing to evaluate , squeeze mud wash and acid . Swab down well , flow back to clean up .

Operations Next Report Period

Shut in well monitor pressures

Road Condition good	Weather Cloudy / snow	Start Date 2/23/2010	End Date
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

Daily Contacts

Title	Job Contact	Mobile
P Engineer	Dick Heenan	403 818 - 4408
Consultant	Kim MacLeod	780 542 - 1897
Rig Manager	Dwayne Palmer	403 357 - 6841

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
07:00	07:30	0.50	0.50	Crew change , held pre - job safety meeting on swabbing procedures . Walk around equipment , spilled 10L KCL water at rig pump .
07:30	10:00	2.50	3.00	Continue swabbing to vessel , total swabs 14 . Total fluid recovered 11.65m3 , confirm with calgary . Rig down swab equipment and flow tree .
10:00	12:00	2.00	5.00	Spot and rig in trican acid pumper , held safety meeting with all personal on location .
12:00	15:00	3.00	8.00	Break circulation down tubing , returns to vessel . Hole volume 12.4m3 KCL water , start mud wash . Spot mud wash @ T.E , shut in casing start mud wash squeeze . Squeezing away @ 20L / min @ 6,900 kPa , finish mud wash . Break circulation down tubing , start 1m3 HCL acid down tubing . Circulate down @ 150L / min @ 3,000 kPa , spot @ bottom of tubing . Reverse circulate out @ 250L / min . Acid to surface , shut down pumper . Foward circulate 4m3 acid to tubing end , start wash . Wash going away @! 2,000 kPa , start squeeze . Squeezing @ 400L / min @ 500 kPa , squeeze away 3.5m3 HCL 15% trican acid blend . Rig down and release acid pumper .
15:00	18:00	3.00	11.00	Rig in swab equipment , swab to vessel . Load fluid to recover 26.81m3 . First swab tag fluid @ 300m , recovered .2m3 water . Continue swabbing to vessel . Pulled 12 - swabs , recovered 4.93m3 water . Tubbing started flowing .
18:00	19:00	1.00	12.00	Continue flowing tubing to vessel , put plate on service
19:00	19:30	0.50	12.50	Crew change , held pre - job safety meeting on buddy system working with H2S .
19:30	00:00	4.50	17.00	Tank truck arrived on location to haul away sour fluid , removed hose from scrubber . Fell down , safety hand called alert . Driver stood up and walked to muster point . Held safety meeting with all personal at muster area , sent tank truck driver to camp to be checked by medic . Continue flowing tubing to vessel , tubing flowing @ 414 kPa , SICP @ 2,830 kPa . Gas rate @ 92.42 10³ m³ , fluid rate @ 2.8m3 / Hr
00:00	02:00	2.00	19.00	Take H2S sample to confirm level of H2S , pulled rea tube 50,000 ppm . Confirm with calgary , flow for 45 minutes . Pull sample down to 40,000 ppm . Shut in well .
02:00	07:00	5.00	24.00	Monitor build up's on well .

Report Fluids Summary

Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Other	6.75	6.75	6.75	0.00
Water	12.40	16.63	50.70	-0.30

Perforations

Date	Zone	Top (mKB)	Btm (mKB)	Current Status
2/24/2010	Sulphur Point, Original Hole	1,421.50	1,425.00	

Tubing Components

Item Description	Top (mKB)

Casing Strings

Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	J-55	35.716	377.00
Production	J-55	20.834	1,473.00



Paramount
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Daily Completion and Workover

PARA ET AL CAMERON M-74

Rig:

Business Unit: NE BC & NWT COU

Report Date: 2/26/2010

Report #: 4.0

Total AFE Amount: 298,896.00

AFE Number: 10N020021

Daily Cost Total: 30,318

Cum Cost to Date: 180,571

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Well Configuration Type VERT	Casing Flange Elevation (m) 778.16	Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13
Last Casing String	PBTD (All) (mKB)	Casing Pressure (kPa) 4,777	Tubing Pressure (kPa) 4,026

Objective

Evaluate Sulphur Point Dolomite as oil well .

Operations Summary

Wait on slickline

Operations Next Report Period

Run into hole gradient

Road Condition good	Weather Cloudy	Start Date 2/23/2010	End Date
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

Daily Contacts

Title	Job Contact	Mobile
P Engineer	Dick Heenan	403 818 - 4408
Consultant	Kim MacLeod	780 542 - 1897
Rig Manager	Dwayne Palmer	403 357 - 6841

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
07:00	07:30	0.50	0.50	Crew change , held pre - job safety meeting on incident on night shift . Walk around equipment .
07:30	09:00	1.50	2.00	Continue monitoring pressures on well .
09:00	10:00	1.00	3.00	SITP @ 3,999 kPa , SICP @ 4,780 kPa . Open tubing on gut line , flow back to confirm H2S level . Confirm with calgary , shut in well .
10:00	19:00	9.00	12.00	Order slickline truck for gradients . Continue monitoring pressures on well .
19:00	19:30	0.50	12.50	Crew change , held pre - job safety meeting on checking pressures on well . Walk around equipment .
19:30	07:00	11.50	24.00	Continue monitoring pressures on well .

Report Fluids Summary

Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Other			6.75	0.00
Water			50.70	-0.30

Perforations

Date	Zone	Top (mKB)	Btm (mKB)	Current Status
2/24/2010	Sulphur Point, Original Hole	1,421.50	1,425.00	

Tubing Components

Item Description	Top (mKB)

Casing Strings

Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	J-55	35.716	377.00
Production	J-55	20.834	1,473.00



Paramount
resources Ltd.

Daily Completion and Workover

PARA ET AL CAMERON M-74

Rig:

Business Unit: NE BC & NWT COU

Report Date: 2/27/2010

Report #: 5.0

Total AFE Amount: 298,896.00

AFE Number: 10N020021

Daily Cost Total: 39,979

Cum Cost to Date: 220,549

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Well Configuration Type VERT	Casing Flange Elevation (m) 778.16	Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13
Last Casing String	P8TD (All) (mKB)	Casing Pressure (kPa) 4,786	Tubing Pressure (kPa) 4,613

Objective

Evaluate Sulphur Point Dolomite as oil well .

Operations Summary

Run gradient , kill well . Pullout of hole tubing , e - line bridge plug & bail cement.

Operations Next Report Period

Move rig and equipment to F - 77

Road Condition good	Weather Cloudy	Start Date 2/23/2010	End Date
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

Daily Contacts

Title	Job Contact	Mobile
P Engineer	Dick Heenan	403 818 - 4408
Consultant	Kim MacLeod	780 542 - 1897
Rig Manager	Dwayne Palmer	403 357 - 6841

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
07:00	07:30	0.50	0.50	Crew change , held pre - job safety meeting on wireline procedures . Walk around equipment .
07:30	08:30	1.00	1.50	Continue monitoring pressures on well .
08:30	15:00	6.50	8.00	Rig up Pure Energy slickline truck , run into hole with gradient . First stop @ 1423.5m continue reverse gradient @ 40m stops to 500m , remaining stops . Bottom hole pressure @ 5,464 kPa , Bottom hole Temp @ 54° C . Rig down and release slickline truck .
15:00	16:00	1.00	9.00	Rig in pump lines to well head , rig testers to casing . Forward circulate down tubing 21m3 , returns to vessel .
16:00	18:30	2.50	11.50	Pull and lay down tubing hanger , pull out of hole laying down onto ground . Install protectors on tubing while laying onto pipe racks .
18:30	19:00	0.50	12.00	Rig down tubing equipment , clean up work floor .
19:00	19:30	0.50	12.50	Crew change , held pre - job safety meeting on E - line procedures , no walking under heavy loads . Walk around equipment .
19:30	21:00	1.50	14.00	Run into hole with Pure Energy bridge plug , log into place @ 1411mKB . Pull out of hole , pump inhibitor with KCL water . Pressure test bridge plug to 17,000 kPa , monitor for 15 minutes . Good test , bleed off pressure .
21:00	23:00	2.00	16.00	Run into hole with cement bailer , bail 10m cement on top of bridge plug . Pull out of hole , rig down and release Pure Energy e - line truck .
23:00	00:00	1.00	17.00	Rig down tubing equipment and work floor , nipple down class III BOP stack .
00:00	01:00	1.00	18.00	Pump 200L deisel down casing , nipple up well head . Pressure test top section to 5,000 kPa , good test . Confirmed good ring seal on top section .
01:00	05:30	4.50	22.50	Rig down rig , pump , tank , boiler . Rig down test equipment and flare stack . Rig out air lines and air trailer .
05:30	06:30	1.00	23.50	Clean up around well head
06:30	07:00	0.50	24.00	Lock and secure well head .

Report Fluids Summary

Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Other			6.75	0.00
Water	21.00	0.00	50.70	20.70

Perforations

Date	Zone	Top (mKB)	Btm (mKB)	Current Status
2/24/2010	Sulphur Point, Original Hole	1,421.50	1,425.00	

Tubing Components

Item Description	Top (mKB)

Casing Strings

Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	J-55	35.716	377.00
Production	J-55	20.834	1,473.00



Paramount
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Daily Completion and Workover

PARA ET AL CAMERON M-74

Rig:

Business Unit: NE BC & NWT COU

Report Date: 2/28/2010

Report #: 6.0

Total AFE Amount: 298,896.00

AFE Number: 10N020021

Daily Cost Total: 32,039

Cum Cost to Date: 252,588

API/UWI 300M746010117150	Surface Legal Location 300M74601011715	Field Name Cameron Hills	License No. 2063
Well Configuration Type VERT	Casing Flange Elevation (m) 778.16	Ground Elevation (m) 777.93	Original KB Elevation (m) 782.13
Last Casing String	PBTD (All) (mKB)	Casing Pressure (kPa) 0	Tubing Pressure (kPa) 0

Objective

Evaluate Sulphur Point Dolomite as oil well .

Operations Summary

Operations Next Report Period

Hand over to production

Road Condition good	Weather Sunny	Start Date 2/23/2010	End Date
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

Daily Contacts

Title	Job Contact	Mobile
P Engineer	Dick Heenan	403 818 - 4408
Consultant	Kim MacLeod	780 542 - 1897
Rig Manager	Dwayne Palmer	403 357 - 6841

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment

Report Fluids Summary

Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Other			6.75	0.00
Water			50.70	20.70

Perforations

Date	Zone	Top (mKB)	Btm (mKB)	Current Status
2/24/2010	Sulphur Point, Original Hole	1,421.50	1,425.00	

Tubing Components

Item Description	Top (mKB)

Casing Strings

Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	J-55	35.716	377.00
Production	J-55	20.834	1,473.00



A **CCS** Company
Concord Well Servicing
3606 Highway St, Valleyview, AB, T0H 3N0

DAILY JOB REPORT

Rig No.: 041

Day on Well 1	Client Paramount Resources Ltd.	Date 23-Feb-2010	Report No: CWS-041-60-3-94	PO# Acct. No.
Operator Rep. Kim MacLeod	Well Name Location M-74	Prov: NT	MWO#: AFE#: Cameron	
Well Depth 139.7	Csg Size 21 MPa	Lease Conditions Good	Lease Temperature -12	CC: Approver:
WellHead Connection 73 mm	GPS: H2S	Tubing Press n/a kPa	Casing Press Dead kPa2	Charge Code 03

From	To	Time	Details Of Operation
19:00	23:59	5.00	Spot rig and equipment to company and government regulations. Raise derrick and level over hole. Rig in and secure out riggers. Function test crown saver, E-kills, and air horn. (Good) Fill and fire boiler, heat kill fluid and wellhead. Rig in accumulator lines and class 3 system. Stump test BOPs to 2000 and 21000 kPa for 10 min ea. (Good) Remove wellhead and install BOP stack. Pressure test BOPs to 2000 kPa and 21000 kPa for 10 min ea. (Good) Rig in work floor, power tongs and air slips. Prepare to trip tbq.

Safety / BOP

Meeting Details:

Rig move.
Spot and rig up.
Test and install BOPs.

- ☒ BOP Drill
- ☒ Daily Walk around Inspection
- ☒ Emergency Airhorn Tested
- ☒ Crown Saver Tested
- ☒ Rig Motor Shut-off
- ☒ Pump Motor Shut-off
- ☒ Lockout System Compliance
- ☐ Anchors Installed/Guylines secured
- ☒ Escape Buggy Installed
- ☒ KillLine Connected/Secured
- ☐ Power to PumpJack Off/Secured
- ☒ Rig and Equip. Bonded to Wellhead
- ☒ Mains and Drum Brake Linkage
- ☒ Self-Retracting Lifelines Tested
- ☒ Fall Arrest Harnesses Inspected
- ☒ Lanyards Inspected
- ☐ Rod B.O.P Function Test
- ☐ Pipe Function Tested
- ☐ Blind Function Tested
- ☐ Annular Function Tested
- ☐ Ram Saver Function Tested
- ☐ B.O.P. Remote Function Tested
- ☐ Accumulator pre-charge checked

Well Secure Time sec
SCBA Drill Date: 2/20/2010
Number of SCBA's 2
Number of Fire Ext 4
Pump Relief Valve set @ 21000 kPa
Initial Accumulator Pres.: kPa
Final Accum. Pressure: kPa
Piperams Proper Size:
Piperams Tested
Low Pres : kPa min
High Pres : kPa min
Annular Tested
Low Pres : kPa min
High Pres : kPa min
Blindrams Tested
Low Pres : kPa min
High Pres : kPa min
Safety Valve Tested
Low Pres : kPa min
High Pres : kPa min
Pump Manifold Valves Tested
Low Pres : kPa min
High Pres : kPa min

Basic Well Servicing Costs

Description	Unit	Qty	Rate	Total
Rig Hours Operating	Hour	5	\$615.00	\$3,075.00
Rig O/T After 8 Hrs(NWT)	Hour	5	\$210.00	\$1,050.00
Crew Vehicle (110 Km Min)	Km	1185	\$1.05	\$1,244.25
Travel Allowance (After 1 hour	Man hr	52	\$17.00	\$884.00
Extra Labour O/T	Hour	6	\$85.00	\$510.00
Basic Well Costs Total:				\$6,763.25

Expendables Costs

Description	Qty	Rate	Total
Expendable Cost Total:			\$0.00

Third Party Cost

Item	Description	Qty	Amount	Total
Third Party Cost:				\$0.00

Rig Crew

Position	Truck km	Travel Time	First Name	Last Name	Hours	Safety Days
Driller-NWT #1			Glen	Woodworth	1.5	
Driller-NWT #1	1185	13	Kevin	Wheeler		
Demickhand-NWT #1			John	O'Reilly	1.5	
Demickhand-NWT #1	8		Jeff	Klein		
Floorhand-NWT #1			Landon	Graham	1.5	
Floorhand-NWT #1			Scott	Gregory		
Floorhand-NWT #1	3		Jordan	Brann	1.5	
Floorhand-NWT #1	8		Jon	Magwood		

Tubing Memo

Fluids Memo

Rods Memo

Totals

Basic Well Cost Total : \$6,763.25
Expendables Cost Total : \$0.00
Third Party Cost Total : \$0.00
Subtotal: \$6,763.25
OC Initial GST(865-985469 RT003) : \$338.16
Estimated Total: \$7,101.41

Rig Time: 5 Stand By Time: 0 Repair Time: 0

Signatures

Rig Manager's Signature:

Operator's Representative:



A CCS Company
Concord Well Servicing
3606 Highway St, Valleyview, AB, T0H 3N0

DAILY JOB REPORT

Rig No.: 041

Day on Well 2	Client Paramount Resources Ltd.	Date 24-Feb-2010	Report No: CWS-041-60-3-95	PO# Acct. No.
Operator Rep. Kim MacLeod	Well Name Location Paramount et al Cameron M-74	Prov: NT	MWO#: AFE#: Cameron	
Well Depth 139.7	Csg Size 139.7	Lease Conditions Good	Lease Temperature -16	CC: Approver:
Wellhead Connection 73 mm 21 MPa	GPS: H2S	Tubing Press n/a kPa	Casing Press Dead kPa2	Charge Code 03

From	To	Time	Details Of Operation
00:00	07:00	7.00	Assemble and RIH w/73mm tbg and csg scraper. Tag PBTD and rig in to circulate well.
07:00	08:30	1.50	Crew change. Bump test gas monitor. Sweep area for hazardous environments. Area clear. Walk around and visually check rig and equipment. (Good) Service and start equipment. Hold pre-job safety meeting. Forward circulate 20.0 clean 3% KCL. Rig out circulating equipment.
08:30	10:30	2.00	POOH w/73mm tbg. Stand 150 jts in the derrick. Lay out csg scraper.
10:30	14:30	4.00	Rig in Pure Energy. Hold pre-job safety meeting. RIH w/CBL bond log. Tag PBTD @ 1455.8 mKB. Cement top @ 400 m. Rig out wireline unit.
14:30	18:30	4.00	Rig in to csg swab well. Pull 15 swabs w/14.07 m3 recovered. Rig out swab equipment.
18:30	23:30	5.00	Rig in Pure Energy wireline unit. Hold tailgate meeting. Rig in wireline. Hold pre-job safety meeting w/all personnel on location. Ensure all phones, two way radios and pagers are turned off. RIH w/101mm pref gun. Wireline CCL stops working @ 100 m. Hold pre-job safety meeting w/all personnel on location. Ensure all phones, two way radios, and pagers are turned off. Surface live gun. Disarm and inspect CCL. Find damaged line above the CCL. Tie new cablehead. Hold pre-job safety meeting w/all personnel on location. Ensure all phones, two way radios, and pagers are turned off. RIH w/101mm pref gun. Tag fluid level @ 1320.0 mKB. Perforate Lower Point Dolomite 1421.5 - 1425.0 mKB. Rig out wireline unit.
23:30	23:59	0.50	Assist test personnel to monitor pressures.

Safety / BOP

Meeting Details:

Tripping tbg.
Circulating well over to KCL.
Wireline operations.

- ☒ BOP Drill
- ☒ Daily Walk around Inspection
- ☒ Emergency Airhorn Tested
- ☒ Crown Saver Tested
- ☒ Rig Motor Shut-off
- ☒ Pump Motor Shut-off
- ☒ Lockout System Compliance
- ☐ Anchors Installed/Guylines secured
- ☒ Escape Buggy Installed
- ☒ KillLine Connected/Secured
- ☐ Power to Pump/Jack Off/Secured
- ☒ Rig and Equip. Bonded to Wellhead
- ☒ Mains and Drum Brake Linkage
- ☒ Self-Retracting Lifelines Tested
- ☒ Fall Arrest Harnesses Inspected
- ☒ Lanyards Inspected
- ☐ Rod B.O.P Function Test
- ☒ Pipe Function Tested
- ☒ Blind Function Tested
- ☒ Annular Function Tested
- ☐ Ram Saver Function Tested
- ☒ B.O.P. Remote Function Tested
- ☒ Accumulator pre-charge checked

Well Secure Time 48 sec
SCBA Drill Date: 2/20/2010
Number of SCBA's 2
Number of Fire Ext 4
Pump Relief Valve set @ 21000 kPa
Initial Accumulator Pres.: 12500 kPa
Final Accum. Pressure: 10200 kPa
Piperams Proper Size: 73
Piperams Tested
Low Pres: 2000 kPa 10 min
High Pres: 21000 kPa 10 min
Annular Tested
Low Pres: 2000 kPa 10 min
High Pres: 10000 kPa 10 min
Blindrams Tested
Low Pres: 2000 kPa 10 min
High Pres: 21000 kPa 10 min
Safety Valve Tested
Low Pres: 2000 kPa 10 min
High Pres: 21000 kPa 10 min
Pump Manifold Valves Tested
Low Pres: 2000 kPa 10 min
High Pres: 21000 kPa 10 min

Tubing Memo

171 jts of 73mm tbg hauled in.

Fluids Memo

Rods Memo

Basic Well Servicing Costs

Description	Unit	Qty	Rate	Total
Rig Hours Operating	Hour	24	\$615.00	\$14,760.00
Rig O/T After 8 Hrs(NWT)	Hour	8	\$210.00	\$1,680.00
Rig Manager (110Km Min)	Km	110	\$1.05	\$115.50
Crew Vehicle (110 Km Min)	Km	1285	\$1.05	\$1,349.25
Travel Allowance (After 1 hour)	Man h	26	\$17.00	\$442.00
Boiler (fuel out) 24 Hr BC	Day	1	\$1,600.00	\$1,600.00

Basic Well Costs Total: \$19,946.75

Expendables Costs

Description	Qty	Rate	Total
Saver Rubber	2	\$16.00	\$32.00
140mm Csg Cup	11	\$20.00	\$220.00

Expendable Cost Total: \$252.00

Third Party Cost

Item	Description	Qty	Amount	Total
	Well Site Radios	8	\$7.00	\$56.00
	Personal Monitors	5	\$30.00	\$150.00
	Csg scraper 5 day min	1	\$550.00	\$550.00

Third Party Cost: \$756.00

Rig Crew

Position	Truck km	Travel Time	First Name	Last Name	Hours	Safety Days
Rig Manager-NWT #	110		Dwayne	Palmer	20	
Driller-NWT #1	1285	13	Glen	Woodworth	12	
Driller-NWT #1	1190	13	Trevor	Norton	12	
Demickhand-NWT #			John	O'Reilly	12	
Demickhand-NWT #	13		Michael	Trojan	12	
Floorhand-NWT #1			Scott	Gregory	12	
Floorhand-NWT #1	13		Landon	Graham	12	
Floorhand-NWT #1	13		Michael	Gabrielcic	12	
Floorhand-NWT #1	13		Shaun	Beecher	12	
Boilerhand-NWT #1	110		David	Brandle	12	

Totals

Basic Well Cost Total : \$19,946.75
Expendables Cost Total : \$252.00
Third Party Cost Total : \$756.00

Subtotal: \$20,954.75

OC Initial GST(865-985469 RT003) : \$1,047.74
Estimated Total: \$22,002.49

Rig Time: 24 Stand By Time: 0 Repair Time: 0

Signatures

Rig Manager's Signature:

Operator's Representative:



A CWS Company
Concord Well Servicing
3606 Highway St, Valleyview, AB, T0H 3N0

DAILY JOB REPORT

Rig No.: 041

Day on Well 2	Client Paramount Resources Ltd.	Date 25-Feb-2010	Report No: CWS-041-60-3-96	PO# Acct. No.
Operator Rep. Kim MacLeod	Well Name Location Paramount et al Cameron M-74	Prov: NT	MWO#: AFE#: Cameron	
Well Depth 1455	Csg Size 139.7	Lease Conditions Good	Lease Temperature -15	CC: Approver:
Well/Head Connection 73 mm 21 MPa	GPS: H2S	Tubing Press n/a kPa	Casing Press 1645 kPa2	Charge Code 03

From	To	Time	Details Of Operation
00:00	02:00	2.00	Rig in to bleed csg off to testers. Bleed off. Shut in and monitor build ups. Csg climbs to 1645 kPa. Bleed off to test vessel. Shut in csg and monitor csg pressure. Csg climbs to 631 kPa. Bleed off to test vessel. Rig in and pump 10.0 m3 down the csg. Shut in csg and monitor for 30 min. Bleed off csg to test vessel. Shut in and monitor csg pressure. Pressure climbs to 852 kPa. Bleed off csg to test vessel. Shut in and monitor csg pressure. Pressure climbs to 200 kPa. Bleed off csg to test vessel. Bleed csg to test vessel. Rig in and Pump 8.0 m3 down csg. Well dead. Complete 10 min flow check. (Good)
02:00	05:00	3.00	Assemble and RIH w/production tbg. Well starts to displace fluid after RIH w/89 jts of tbg. Rig in to suck back on the csg while tripping. Rig in steam to keep the pump line from freezing.
05:00	07:00	2.00	Rig in to swab tbg to testers. Pull 6 swabs w/ 4.1 m3 recovered.
07:00	09:30	2.50	Crew change. Bump test gas monitor. Sweep area for hazardous environments. Area clear. Walk around and visually check rig and equipment. (Good) Service and start equipment. Hold pre-job safety meeting. Continue to swab tbg to testers. Pull 8 swabs w/6.8 m3 recovered. Rig out swab equipment.
09:30	15:00	5.50	Rig in Trican C & A unit. Perform mud wash and acid squeeze as per program.
15:00	18:00	3.00	Rig in to swab well to testers. Pull 12 swabs w/4.93 m3 recovered. Well begins to flow. Rig out swab equipment.
18:00	19:00	1.00	Flow well to testers.
19:00	23:59	5.00	Crew change. Continue to flow well to testers.

Safety / BOP

Meeting Details:

Flow well to testers.
Tripping tbg. Swab sour to testers.
Acid squeeze. Swab/flow.

- ☒ BOP Drill
- ☒ Daily Walk around Inspection
- ☒ Emergency Airhorn Tested
- ☒ Crown Saver Tested
- ☒ Rig Motor Shut-off
- ☒ Pump Motor Shut-off
- ☒ Lockout System Compliance
- ☐ Anchors Installed/Guylines secured
- ☒ Escape Buggy Installed
- ☒ KillLine Connected/Secured
- ☐ Power to Pump/Jack Off/Secured
- ☒ Rig and Equip. Bonded to Wellhead
- ☒ Mains and Drum Brake Linkage
- ☒ Self-Retracting Lifelines Tested
- ☒ Fall Arrest Harnesses Inspected
- ☒ Lanyards Inspected
- ☐ Rod B.O.P Function Test
- ☒ Pipe Function Tested
- ☒ Blind Function Tested
- ☐ Annular Function Tested
- ☐ Ram Saver Function Tested
- ☒ B.O.P. Remote Function Tested
- ☐ Accumulator pre-charge checked

Well Secure Time 56 sec
SCBA Drill Date: 2/20/2010
Number of SCBA's 2
Number of Fire Ext 4
Pump Relief Valve set @ 21000 kPa
Initial Accumulator Pres.: kPa
Final Accum. Pressure: kPa
Piperams Proper Size: 73
Piperams Tested
Low Pres : kPa min
High Pres : kPa min
Annular Tested
Low Pres : kPa min
High Pres : kPa min
Blindrams Tested
Low Pres : kPa min
High Pres : kPa min
Safety Valve Tested
Low Pres : kPa min
High Pres : kPa min
Pump Manifold Valves Tested
Low Pres : kPa min
High Pres : kPa min

Basic Well Servicing Costs

Description	Unit	Qty	Rate	Total
Rig Hours Operating	Hour	24	\$615.00	\$14,760.00
Rig O/T After 8 Hrs(NWT)	Hour	8	\$210.00	\$1,680.00
Rig Manager (110Km Min)	Km	110	\$1.05	\$115.50
Crew Vehicle (110 Km Min)	Km	1300	\$1.05	\$1,365.00
Travel Allowance (After 1 hour)	Man hr	26	\$17.00	\$442.00
Boiler (fuel out) 24 Hr BC	Day	1	\$1,600.00	\$1,600.00
Inhibitor Injector	Day	1	\$100.00	\$100.00
Basic Well Costs Total:				\$20,062.50

Expendables Costs

Description	Qty	Rate	Total
Sandline Inhibitor(lit)	12	\$15.00	\$180.00
Saver Rubber	4	\$16.00	\$64.00
73mm Swap Cup	10	\$35.00	\$350.00

Third Party Cost

Item	Description	Qty	Amount	Total
	Well Site Radios	8	\$7.00	\$56.00
	Personal Monitors	5	\$30.00	\$150.00
Third Party Cost:				\$206.00

Rig Crew

Position	Truck km	Travel Time	First Name	Last Name	Hours	Safety Days
Rig Manager-NWT #	110		Dwayne	Palmer	20	
Driller-NWT #1	110		Trevor	Norton	12	
Driller-NWT #1	1190	13	Doug	Palmer	12	
Derrickhand-NWT #			John	O'Reilly	12	
Derrickhand-NWT #			Michael	Trojan	12	
Floorhand-NWT #1			Scott	Gregory	12	
Floorhand-NWT #1			Michael	Gabrielcic	12	
Floorhand-NWT #1			Shaun	Beecher	12	
Floorhand-NWT #1	13		Christopher	Wilson	12	
Boilerhand-NWT #1	110		David	Brandle	12	

Tubing Memo

73mm tbg collar 0.13m
1 jt of 73mm tbg 9.59m
Perforated pup jt 0.62m
PSN 0.33m
4 jts of 73mm tbg 38.21m
Tbg anchor 0.91m
149 jts of 73mm tbg 1391.48m
Tbg hanger 0.26m
KB to THF

Fluids Memo

Rods Memo

Totals

Basic Well Cost Total : \$20,062.50
Expendables Cost Total : \$594.00
Third Party Cost Total : \$206.00

Subtotal: \$20,862.50

OC Initial GST(865-985469 RT003) : \$1,043.13
Estimated Total: \$21,905.63

Rig Time: 24 Stand By Time: 0 Repair Time: 0

Signatures

Rig Manager's Signature:

Operator's Representative:



A **CWS** Company
Concord Well Servicing
3606 Highway St, Valleyview, AB, T0H 3N0

DAILY JOB REPORT

Rig No.: 041

Day on Well 3	Client Paramount Resources Ltd.	Date 26-Feb-2010	Report No: CWS-041-60-3-97	PO# Acct. No.
Operator Rep. Kim MacLeod	Well Name Location Paramount et al Cameron M-74	Prov: NT	MWO#: AFE#: Cameron	
Well Depth 1455	Csg Size 139.7	Lease Conditions Good	Lease Temperature -12	CC: Approver:
Wellhead Connection 73 mm 21 MPa	GPS: H2S	Tubing Press 403 kPa	Casing Press 2654 kPa2	Charge Code 03

From	To	Time	Details Of Operation
00:00	02:00	2.00	Continue to flow well to testers. Mask up and sample well bore fluids. H2S is at 50,000 and exceeds the flare permit. Shut in well.
02:00	07:00	5.00	Wait on orders.
07:00	09:00	2.00	Bump test gas monitor. Sweep area for hazardous environments. Area clear. Walk around and visually check rig and equipment. (Good) Service and start equipment. Hold pre-job safety meeting. Wait on Slickline unit.
09:00	10:00	1.00	Hold safety meeting. Open well up to test vessel. Mask up and sample well bore fluids. H2S is at 40,000 and exceeds the flare permit. Shut in well.
10:00	23:59	14.00	Wait on slick line unit.

Safety / BOP

Meeting Details:

Flow well to testers.
H2S content as high as 50,000 ppm.
Buddy system.

- ☐ BOP Drill
- ☒ Daily Walk around Inspection
- ☒ Emergency Airhorn Tested
- ☒ Crown Saver Tested
- ☒ Rig Motor Shut-off
- ☒ Pump Motor Shut-off
- ☒ Lockout System Compliance
- ☐ Anchors Installed/Guylines secured
- ☒ Escape Buggy Installed
- ☐ KillLine Connected/Secured
- ☐ Power to Pump/Jack Off/Secured
- ☒ Rig and Equip. Bonded to Wellhead
- ☒ Mains and Drum Brake Linkage
- ☒ Self-Retracting Lifelines Tested
- ☒ Fall Arrest Harnesses Inspected
- ☒ Lanyards Inspected
- ☐ Rod B.O.P Function Test
- ☐ Pipe Function Tested
- ☐ Blind Function Tested
- ☐ Annular Function Tested
- ☐ Ram Saver Function Tested
- ☐ B.O.P. Remote Function Tested
- ☐ Accumulator pre-charge checked

Well Secure Time sec
SCBA Drill Date: 2/20/2010
Number of SCBA's 2
Number of Fire Ext 4
Pump Relief Valve set @ 21000 kPa
Initial Accumulator Pres.: kPa
Final Accum. Pressure: kPa
Piperams Proper Size:
Piperams Tested
Low Pres : kPa min
High Pres : kPa min
Annular Tested
Low Pres : kPa min
High Pres : kPa min
Blindrams Tested
Low Pres : kPa min
High Pres : kPa min
Safety Valve Tested
Low Pres : kPa min
High Pres : kPa min
Pump Manifold Valves Tested
Low Pres : kPa min
High Pres : kPa min

Basic Well Servicing Costs

Description	Unit	Qty	Rate	Total
Rig Hours Operating	Hour	24	\$615.00	\$14,760.00
Rig O/T After 8 Hrs(NWT)	Hour	8	\$210.00	\$1,680.00
Rig Manager (110Km Min)	Km	110	\$1.05	\$115.50
Crew Vehicle (110 Km Min)	Km	220	\$1.05	\$231.00
Boiler (fuel out) 24 Hr BC	Day	1	\$1,600.00	\$1,600.00
Basic Well Costs Total:				\$18,386.50

Expendables Costs

Description	Qty	Rate	Total
Expendable Cost Total:			\$0.00

Third Party Cost

Item	Description	Qty	Amount	Total
	Personal Monitors	5	\$30.00	\$150.00
	Well Site Radios	8	\$7.00	\$56.00
Third Party Cost:				\$206.00

Rig Crew

Position	Truck km	Travel Time	First Name	Last Name	Hours	Safety Days
Rig Manager-NWT #	110		Dwayne	Palmer	20	
Driller-NWT #1	110		Trevor	Norton	12	
Driller-NWT #1	110		Doug	Palmer	12	
Demickhand-NWT #:			John	O'Reilly	12	
Demickhand-NWT #:			Michael	Trojan	12	
Floorhand-NWT #1			Christopher	Wilson	12	
Floorhand-NWT #1			Scott	Gregory	12	
Floorhand-NWT #1			Michael	Gabrielcic	12	
Floorhand-NWT #1			Shaun	Beecher	12	
Boilerhand-NWT #1	110		David	Brandle	12	

Tubing Memo

73mm wireline re-entry guide 0.13m
1 jt of 73mm tbg 9.59m
Perforated pup jt 0.62m
PSN 0.33m
4 jts of 73mm tbg 38.21m
Tbg anchor 0.91m
149 jts of 73mm tbg 1391.48m
Tbg hanger 0.26m
KB to THF

Fluids Memo

Rods Memo

Totals

Basic Well Cost Total : \$18,386.50
Expendables Cost Total : \$0.00
Third Party Cost Total : \$206.00
Subtotal: \$18,592.50

OC Initial GST(865-985469 RT003) : \$929.63
cpatience Estimated Total: \$19,522.13

Rig Time: 24 Stand By Time: 0 Repair Time: 0

Signatures

Rig Manager's Signature:

Operator's Representative:



A **CSS** Company
Concord Well Servicing
3606 Highway St, Valleyview, AB, T0H 3N0

DAILY JOB REPORT

Rig No.: 041

Day on Well 4	Client Paramount Resources Ltd.	Date 27-Feb-2010	Report No: CWS-041-60-3-98	PO# Acct. No.
Operator Rep. Kim MacLeod	Well Name Paramount et al Cameron	Prov: NT	MWO#: AFE#: Cameron	
Well Depth 1455	Csg Size 139.7	Lease Conditions Good	Lease Temperature -8	CC: Approver:
Wellhead Connection 73 mm 21 MPa	GPS: H2S	Tubing Press 4725 kPa	Casing Press 4600 kPa2	Charge Code 03

From	To	Time	Details Of Operation
00:00	07:00	7.00	Continue to wait on slickline unit.
07:00	09:00	2.00	Crew change at 07:00 am. Bump test gas monitor. Sweep area for hazardous environments. Area clear. Walk around and visually check rig and equipment. (Good) Service and start equipment. Hold pre-job safety meeting. Continue to wait on slickline unit.
09:00	15:00	6.00	Rig in Pure Energy slickline unit. RIH w/recorders and perform static gradient as per program. Rig out slickline.
15:00	16:00	1.00	Rig in and forward circulate well to testers. Pump 20.0 m3. Well dead. Complete 10 min flow check. No flow.
16:00	18:00	2.00	POOH side ways w/tbg and BHA. Rig in and pump 1.0 m3 while tripping tbg.
18:00	23:59	6.00	Spot Pure Energy wireline unit. Hold tailgate meeting. Rig in wireline. Hold pre-job safety meeting w/all personnel on location. Ensure all phones, two way radios, and pagers are turned off. RIH and set bridge plug @ 1411.0 mKB. Rig in to fill csg. Pump 12.5 m3 of inhibited water. Pressure test to 17 mPa for 10 min. (Good) RIH and dump bail 10 m of class G cement on plug. Rig out wireline. Pump 150 liters of diesel down csg.

Safety / BOP

Meeting Details:

Slickline operations.
Well kill. Tripping tbg.
E-line operations.

- ☐ BOP Drill
- ☒ Daily Walk around Inspection
- ☒ Emergency Airhorn Tested
- ☒ Crown Saver Tested
- ☒ Rig Motor Shut-off
- ☒ Pump Motor Shut-off
- ☒ Lockout System Compliance
- ☐ Anchors Installed/Guylines secured
- ☒ Escape Buggy Installed
- ☒ KillLine Connected/Secured
- ☐ Power to Pump/Jack Off/Secured
- ☒ Rig and Equip. Bonded to Wellhead
- ☒ Mains and Drum Brake Linkage
- ☒ Self-Retracting Lifelines Tested
- ☒ Fall Arrest Harnesses Inspected
- ☒ Lanyards Inspected
- ☐ Rod B.O.P Function Test
- ☐ Pipe Function Tested
- ☐ Blind Function Tested
- ☐ Annular Function Tested
- ☐ Ram Saver Function Tested
- ☐ B.O.P. Remote Function Tested
- ☐ Accumulator pre-charge checked

Well Secure Time sec
SCBA Drill Date: 2/20/2010
Number of SCBA's 2
Number of Fire Ext 4
Pump Relief Valve set @ 21000 kPa
Initial Accumulator Pres.: kPa
Final Accum. Pressure: kPa
Piperams Proper Size:
Piperams Tested
Low Pres : kPa min
High Pres : kPa min
Annular Tested
Low Pres : kPa min
High Pres : kPa min
Blindrams Tested
Low Pres : kPa min
High Pres : kPa min
Safety Valve Tested
Low Pres : kPa min
High Pres : kPa min
Pump Manifold Valves Tested
Low Pres : kPa min
High Pres : kPa min

Basic Well Servicing Costs

Description	Unit	Qty	Rate	Total
Rig Hours Operating	Hour	24	\$615.00	\$14,760.00
Rig O/T After 8 Hrs(NWT)	Hour	8	\$210.00	\$1,680.00
Rig Manager (110Km Min)	Km	110	\$1.05	\$115.50
Crew Vehicle (110 Km Min)	Km	220	\$1.05	\$231.00
Boiler (fuel out) 24 Hr BC	Day	1	\$1,600.00	\$1,600.00

Basic Well Costs Total: \$18,386.50

Expendables Costs

Description	Qty	Rate	Total
Absorption rolls	0.5	\$200.00	\$100.00

Expendable Cost Total: \$100.00

Third Party Cost

Item	Description	Qty	Amount	Total
	Personal Monitors	5	\$30.00	\$150.00
	Well Site Radios	8	\$7.00	\$56.00

Third Party Cost: \$206.00

Rig Crew

Position	Truck km	Travel Time	First Name	Last Name	Hours	Safety Days
Rig Manager-NWT #	110		Dwayne	Palmer	20	
Driller-NWT #1	110		Trevor	Norton	12	
Driller-NWT #1	110		Doug	Palmer	12	
Demickhand-NWT #			John	O'Reilly	12	
Demickhand-NWT #			Michael	Trojan	12	
Floorhand-NWT #1			Christopher	Wilson	12	
Floorhand-NWT #1			Scott	Gregory	12	
Floorhand-NWT #1			Michael	Gabrielcic	12	
Floorhand-NWT #1			Shaun	Beecher	12	
Boilerhand-NWT #1	110		David	Brandle	12	

Tubing Memo

Fluids Memo

Rods Memo

Totals

Basic Well Cost Total : \$18,386.50
Expendables Cost Total : \$100.00
Third Party Cost Total : \$206.00
Subtotal: \$18,692.50

OC Initial GST(865-985469 RT003) : \$934.63
Estimated Total: \$19,627.13

Rig Time: 24 Stand By Time: 0 Repair Time: 0

Signatures

Rig Manager's Signature:

Operator's Representative:



A **CWS** Company
Concord Well Servicing
3606 Highway St. Valleyview, AB, T0H 3N0

DAILY JOB REPORT

Rig No.: 041

Day on Well 5	Client Paramount Resources Ltd.	Date 28-Feb-2010	Report No: CWS-041-60-3-99	PO# Acct. No.
Operator Rep. Kim MacLeod	Well Name Paramount et al Cameron	Prov: NT	MWO#: AFE#: Cameron	
Well Depth 1455	Csg Size 139.7	Lease Conditions Good	Lease Temperature -6	CC: Approver:
WellHead Connection 73 mm 21 MPa	GPS: H2S	Tubing Press n/a kPa	Casing Press Dead kPa2	Charge Code 03

From	To	Time	Details Of Operation
00:00	07:00	7.00	Rig out power tong, air slips and work floor. Hoist and remove BOP stack. Install wellhead. Rig in and pressure test wellhead to 5,000 kPa for 10 min. (Good) Rig out class 3 accumulator. Rig out rig and equipment. Cool and drain boiler. Prepare for AM move. Wait on trucks.

Safety / BOP

Meeting Details:

Hoist and remove BOPs.
Pressure test wellhead.
Rig out rig and equipment.

- ☐ BOP Drill
- ☒ Daily Walk around Inspection
- ☒ Emergency Airhorn Tested
- ☐ Crown Saver Tested
- ☒ Rig Motor Shut-off
- ☒ Pump Motor Shut-off
- ☐ Lockout System Compliance
- ☐ Anchors Installed/Guylines secured
- ☐ Escape Buggy Installed
- ☐ KillLine Connected/Secured
- ☐ Power to PumpJack Off/Secured
- ☐ Rig and Equip. Bonded to Wellhead
- ☐ Mains and Drum Brake Linkage
- ☐ Self-Retracting Lifelines Tested
- ☐ Fall Arrest Harnesses Inspected
- ☐ Lanyards Inspected
- ☐ Rod B.O.P Function Test
- ☐ Pipe Function Tested
- ☐ Blind Function Tested
- ☐ Annular Function Tested
- ☐ Ram Saver Function Tested
- ☐ B.O.P. Remote Function Tested
- ☐ Accumulator pre-charge checked

Well Secure Time sec
SCBA Drill Date: 2/28/2010
Number of SCBA's 2
Number of Fire Ext 4
Pump Relief Valve set @ 21000 kPa
Initial Accumulator Pres.: kPa
Final Accum. Pressure: kPa
Piperams Proper Size:
Piperams Tested
Low Pres : kPa min
High Pres : kPa min
Annular Tested
Low Pres : kPa min
High Pres : kPa min
Blindrams Tested
Low Pres : kPa min
High Pres : kPa min
Safety Valve Tested
Low Pres : kPa min
High Pres : kPa min
Pump Manifold Valves Tested
Low Pres : kPa min
High Pres : kPa min

Basic Well Servicing Costs

Description	Unit	Qty	Rate	Total
Rig Hours Operating	Hour	7	\$615.00	\$4,305.00

Basic Well Costs Total: \$4,305.00

Expendables Costs

Description	Qty	Rate	Total

Expendable Cost Total: \$0.00

Third Party Cost

Item	Description	Qty	Amount	Total

Third Party Cost: \$0.00

Rig Crew

Position	Truck km	Travel Time	First Name	Last Name	Hours	Safety Days
Rig Manager-NWT #			Dwayne	Palmer		
Driller-NWT #1			Trevor	Norton		
Driller-NWT #1			Doug	Palmer		
Derrickhand-NWT #1			John	O'Reilly		
Derrickhand-NWT #1			Michael	Trojan		
Floorhand-NWT #1			Christopher	Wilson		
Floorhand-NWT #1			Scott	Gregory		
Floorhand-NWT #1			Michael	Gabrijelcic		
Floorhand-NWT #1			Shaun	Beecher		
Boilerhand-NWT #1			David	Brandle		

Tubing Memo

Fluids Memo

Rods Memo

Totals

Basic Well Cost Total : \$4,305.00

Expendables Cost Total : \$0.00

Third Party Cost Total : \$0.00

Subtotal: \$4,305.00

OC Initial GST(865-985469 RT003) : \$215.25

Estimated Total: \$4,520.25

Rig Time: 7

Stand By Time: 0

Repair Time: 0

Signatures

Rig Manager's Signature:

Operator's Representative:



SWAB/CLEAN UP
PAS-PRD

PARAMOUNT RESOURCES LTD.

Well Name: Para et al Cameron M-74

UWI: 60-10-117-15

FIELD: Cameron Hills

FORMATION: Sulphur Point Dolomite

Test/Prod Intervals: 1421.5 - 1425.0 mKB

TEST DATE (s): February 24-27, 2010

DISTRIBUTION: Well Completions - Calgary, AB - 2 copies

PREPARED BY: Enertec Systems enertec@telus.net

Roberta (Robbie) Lailey

Cell: (403) 651-1350

Axel Production Services Ltd.

4th Floor, 522 - 11th Avenue SW

Calgary, AB T2R 0C8

Phone: (403) 266-8613

Cell: (403) 507-5169

Fax: (403) 266-8617

email: Jason Haffner - jasonh@axelltd.ca

Field Production Notes (PAS_PRD) v. 4.00

GENERAL INFORMATION

Well Info:

Oil Company Name: PARAMOUNT RESOURCES LTD.
 Well Name: Para et al Cameron M-74
 Unique Well ID (UWI): 60-10-117-15
 Surface Location: EUB Well License No.:
 Formation: Sulphur Point Dolomite Drilling Leg: 01
 Field: Cameron Hills

Well Fluid Type at Test Date:

☐	01 - Oil
☐	02 - Gas
☒	03 - Water
☐	17 - Crude Bitumen

Test Data:

Service Company Name: Axel Production Services Ltd. Recorders Run: No
 Service Company Code: AXEL
 Test Final Date/Time: 27-Feb-10 22:00

Test/Prod. Interval Top mKB (Log):	1421.50 m	Previous Gas Prod.:	0.0000 10 ³ m ³
Test/Prod. Interval Base mKB (Log):	1425.00 m	Gas Flared:	27.6104 10 ³ m ³
		Gas Incinerated:	0.0000 10 ³ m ³
		Gas Produced to Pipeline:	0.0000 10 ³ m ³
		Gas Vented:	0.0000 10 ³ m ³

Meters:Gas Meter1

Metering Device Type: Orifice Gas Relative Density: 0.650
 Meter Run/Prover Size: 97.200 mm Nitrogen (N2): 0.0000 %
 Carbon Dioxide (CO2): 0.0000 %
 Atmospheric Pressure: 93.01 kPa Hydrogen Sulphide (H2S): 0.0000 %

Tap Type: Flanged
 Tap Location: Downstream

Liquid Meter1

Liquid Type Indicator: Water
 Metering Device Type: Produced Volume
 Tank Measurement Indicator: Incremental
 pH: 6
 Salinity: 74000
 API (Oil Gravity):

Liquid Meter2

Liquid Type Indicator: Oil/Condensate
 Metering Device Type: Produced Volume
 Tank Measurement Indicator: Incremental

ERCB PAS-PRD File Name: M-74-Sulphur Point Dolomite-2010-02-27

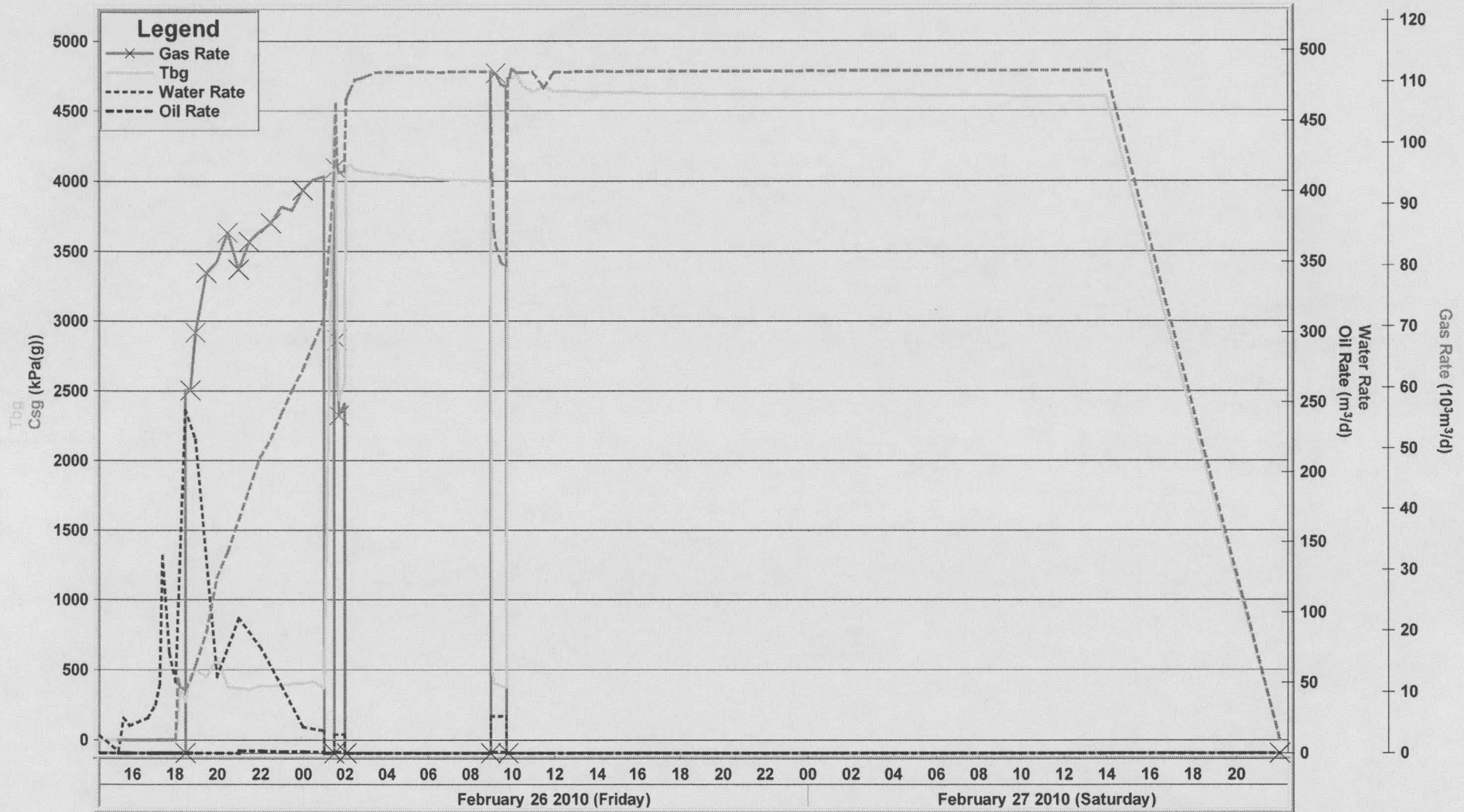
REMARKS

An ERCB PAS-PRD (v. 4.00) file has been created, using the above mentioned information. No Gas Samples were obtained for this report.

Company: ARAMOUNT RESOURCES LTD.
 Unique Well ID: 60-10-117-15
 Start DateTime: 2010/02/24 07:00
 End DateTime: 2010/02/27 22:00

Well / Lease Name: PARA et al CAMERON M-74
 Formation: SULPHUR POINT DOLOMITE
 Pool: 1421.5 - 1425.0 mKB
 Job Number: 1018

Swab/Clean Up



Company: PARAMOUNT RESOURCES LTD.
 Unique Well ID: 60-10-117-15
 Start Date/Time: 2010/02/24 07:00
 End Date/Time: 2010/02/27 22:00

Well / Lease Name: PARA et al CAMERON M-74
 Formation: SULPHUR POINT DOLOMITE
 Pool: 1421.5 - 1425.0 mKB
 Job Number: 1018

				Wellhead				Gas Orifice Meter						Recovered/Produced Fluid Volumes											
	Date	Time	Cum Time	Tbg	Csg	WHT	Flow Time	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Swab	Tag	Pull	Fld Vol	BSW	Oil Gain	Oil Cum	H2O Gain	Cum H2O	pH	Salinity	API
	YYYY/MM/DD	HH:mm:ss	h	kPa(g)	kPa(g)	°C	h	mm	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³		m	m	m ³	%	m ³	m ³	m ³	m ³		ppm	°API
1	2010/02/24	07:00:00	0.00	ATTEND SAFETY MEETING 9 PERSONAL ON LOCATION																					
2		10:00:00	3.00	SPOT & RIG IN EQUIPMENT TO REGULATION																					
3		22:15:00	15.25	PERFORATE LOWER SULPHUR POINT (1421.50 - 1425.00)																					
4		22:15:00	15.25	MONITOR CASING PRESSURES / RIG OUT WIRELINE UNIT																					
5		22:20:00	15.33		175		0.00																		
6		22:25:00	15.42		372		0.00																		
7		22:30:00	15.50		508		0.00																		
8		22:45:00	15.75		905		0.00																		
9		23:00:00	16.00		1200		0.00																		
10		23:15:00	16.25		1645		0.00																		
11		23:15:00	16.25	OPEN CASING TO BLEED OFF PRESSURE																					
12		23:20:00	16.33		240		0.00																		
13		23:25:00	16.42		116		0.00																		
14		23:30:00	16.50		7		0.00																		
15		23:30:00	16.50	**NOTE** H ₂ S SAMPLE TAKEN = 95 ppm																					
16		23:30:00	16.50	SHUT IN CASING / MONITOR PRESSURES																					
17		23:35:00	16.58		266		0.00																		
18		23:40:00	16.67		467		0.00																		
19		23:45:00	16.75		631		0.00																		
20		23:45:00	16.75	OPEN CASING TO BLEED OFF PRESSURE																					
21		23:50:00	16.83		0		0.00																		
22		23:55:00	16.92	SHUT IN CASING / PUMP 10m ³ KILL FLUID DOWN CASING																					
23	2010/02/25	00:15:00	17.25		-1		0.00																		
24		00:20:00	17.33		-1		0.00																		
25		00:30:00	17.50		10		0.00																		
26		00:45:00	17.75		710		0.00																		
27		00:50:00	17.83		852		0.00																		
28		00:55:00	17.92	OPEN CASING TO BLEED OFF PRESSURE																					
29		00:55:00	17.92		0		0.00																		
30		01:00:00	18.00	SHUT IN CASING / MONITOR PRESSURE																					
31		01:05:00	18.08		100		0.00																		
32		01:10:00	18.17		161		0.00																		
33		01:15:00	18.25		200		0.00																		
34		01:30:00	18.50	OPEN CASING TO BLEED OFF PRESSURE																					

Company: PARAMOUNT RESOURCES LTD.
 Unique Well ID: 60-10-117-15
 Start Date/Time: 2010/02/24 07:00
 End Date/Time: 2010/02/27 22:00

Well / Lease Name: PARA et al CAMERON M-74
 Formation: SULPHUR POINT DOLOMITE
 Pool: 1421.5 - 1425.0 mKB
 Job Number: 1018

				Wellhead				Gas Orifice Meter						Recovered/Produced Fluid Volumes											
	Date	Time	Cum Time	Tbg	Csg	WHT	Flow Time	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Swab	Tag	Pull	Fld Vol	BSW	Oil Gain	Oil Cum	H2O Gain	Cum H2O	pH	Salinity	API
	YYYY/MM/DD	HH:mm:ss	h	kPa(g)	kPa(g)	°C	h	mm	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³		m	m	m ³	%	m ³	m ³	m ³	m ³		ppm	°API
35	2010/02/25	01:45:00	18.75		0		0.00	0.00																	
36		01:45:00	18.75	PUMP 8 m³ KILL FLUID DOWN CASING																					
37		02:00:00	19.00		0		0.00																		
38		02:00:00	19.00	BEGIN RUNNING IN HOLE WITH TUBING																					
39		04:20:00	21.33	TUBING STRING ON DEPTH / RIG IN TO SWAB TUBING																					
40		05:55:00	22.92				0.00		0	0.0	0.0	0.000	0.0000				0.000		0.000	0.000	0.000	0.000			
41		06:00:00	23.00	0	-1		0.08							1	0	246	0.699	100.0	0.000	0.000	0.699	0.699			
42		06:04:00	23.07	8			0.15							2	15	294	0.674		0.000	0.000	0.674	1.373	6	40000	
43		06:17:00	23.28	10			0.37							3	20	310	0.667		0.000	0.000	0.667	2.040			
44		06:28:00	23.47	10			0.55							4	50	437	0.539		0.000	0.000	0.539	2.579	6	30000	
45		06:40:00	23.67	9			0.75							5	100	483	0.819		0.000	0.000	0.819	3.398			
46		07:00:00	24.00	9			1.08							6	180	667	1.422		0.000	0.000	1.422	4.820	6	32000	
47		07:20:00	24.33	10			1.42							7	622	976	1.422		0.000	0.000	1.422	6.242			
48		07:38:00	24.63	4			1.72							8	667	1018	0.867		0.000	0.000	0.867	7.109	6	30000	
49		07:55:00	24.92	6			2.00							9	622	976	0.410		0.000	0.000	0.410	7.519			
50		08:17:00	25.28	0			2.37							10	757	1103	0.710		0.000	0.000	0.710	8.229	6	28000	
51		08:34:00	25.57	0			2.65							11	976	1308	0.670		0.000	0.000	0.670	8.899			
52		08:51:00	25.85	8			2.93							12		1387	0.880		0.000	0.000	0.880	9.779	6	28000	
53		08:51:00	25.85	**NOTE** UNABLE TO OBTAIN TAG DUE TO GAS POCKETS																					
54		09:12:00	26.20	3			3.28							13		1387	1.004		0.000	0.000	1.004	10.783			
55		09:29:00	26.48	4			3.57							14		1387	0.866		0.000	0.000	0.866	11.649	6	28000	
56		09:29:00	26.48	**NOTE** UNABLE TO OBTAIN TAG DUE TO GAS POCKETS																					
57		09:35:00	26.58	RIG OUT SWAB EQUIPMENT / RIG IN ACID EQUIPMENT																					
58		11:00:00	28.00	ATTEND SAFETY MEETING 14 PERSONAL ON LOCATION																					
59		11:15:00	28.25	BEGIN ACID TREATMENT OF LOWER SULPHUR POINT																					
60		13:35:00	30.58	ACID TREATMENT COMPLETE / RIG OUT ACID EQUIPMENT / RIG IN TO SWAB TUBING																					
61		13:45:00	30.75	LOAD FLUID TO RECOVER = 26.81 m³																					
62		15:20:00	32.33	-1	-1		9.42							1	757	1103	0.267		0.000	0.000	0.267	11.916	6	28000	
63		15:35:00	32.58	-1	-1		9.67							2	976	1308	0.257		0.000	0.000	0.257	12.173	6	30000	
64		15:52:00	32.87	-1	-1		9.95							3	976	1308	0.231		0.000	0.000	0.231	12.404			
65		16:03:00	33.05	-1	-1		10.13							4		622									
66		16:20:00	33.33	-1	-1		10.42							5	1061	1387									
67		16:35:00	33.58	-1	-1		10.67							6		622									
68		16:45:00	33.75	-1	-1		10.83							7	1061	1387	0.928		0.000	0.000	0.928	13.332			

Company: PARAMOUNT RESOURCES LTD.
 Unique Well ID: 60-10-117-15
 Start Date/Time: 2010/02/24 07:00
 End Date/Time: 2010/02/27 22:00

Well / Lease Name: PARA et al CAMERON M-74
 Formation: SULPHUR POINT DOLOMITE
 Pool: 1421.5 - 1425.0 mKB
 Job Number: 1018

				Wellhead				Gas Orifice Meter							Recovered/Produced Fluid Volumes												
	Date	Time	Cum Time	Tbg	Csg	WHT	Flow Time	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Swab	Tag	Pull	Fld Vol	BSW	Oil Gain	Oil Cum	H2O Gain	Cum H2O	pH	Salinity	API		
	YYYY/MM/DD	HH:mm:ss	h	kPa(g)	kPa(g)	°C	h	mm	kPa(g)	kPa	°C	10³m³/d	10³m³		m	m	m³	%	m³	m³	m³	m³		ppm	°API		
69	2010/02/25	17:06:00	34.10	-1	-1		11.18	0.00						8	1061	1387	0.506	100.0	0.000	0.000	0.506	13.838	6	30000			
70		17:18:00	34.30	3	-1		11.38							9	1061	1387	0.406		0.000	0.000	0.406	14.244					
71		17:26:00	34.43	6	-1		11.52							10	1061	1387	0.776		0.000	0.000	0.776	15.020	6	36000			
72		17:45:00	34.75	4	-1		11.83							11	1061	1387	0.929		0.000	0.000	0.929	15.949					
73		18:03:00	35.05	4	-1		12.13							12	1061	1387	0.630		0.000	0.000	0.630	16.579	6	42000			
74		18:06:00	35.10	**NOTE** WELL BEGINNING TO FLOW																							
75		18:10:00	35.17	165	437		12.25																				
76		18:15:00	35.25	376	379		12.33																				
77		18:30:00	35.50	274	355		12.58		0	0.0	0.0	0.000	0.0000				4.585		0.000	0.000	4.585	21.164	6	64000			
78		18:30:00	35.50	METER IN SERVICE ON 2.00" (50.8 mm) ORIFICE PLATE																							
79		18:45:00	35.75	463	430	14.0	12.83	50.80	358	25.4	15.0	59.518	0.6200														
80		19:00:00	36.00	497	540	14.0	13.08		262	42.8	16.0	69.069	1.2897				4.650		0.000	0.000	4.650	25.814	6	86000			
81		19:30:00	36.50	451	771	12.0	13.58		317	47.8	13.0	78.871	2.8307														
82		20:00:00	37.00	591	1158	12.0	14.08		317	49.8	13.0	80.569	4.4916				2.250		0.000	0.000	2.250	28.064	6	92000			
83		20:15:00	37.25	INCREASE ORIFICE PLATE TO 2.750" (69.85 mm)																							
84		20:30:00	37.50	372	1342	12.0	14.58	69.85	207	17.4	10.0	85.415	6.2206														
85		21:00:00	38.00	371	1571	12.0	15.08		152	18.4	11.0	79.339	7.9368				3.980		0.000	0.000	3.980	32.044	6	90000			
86		21:30:00	38.50	361	1791	11.0	15.58		159	19.9	10.0	83.873	9.6369														
87		22:00:00	39.00	387	2024	11.0	16.08		165	20.2	9.0	85.640	11.4027				3.180	98.0	0.064	0.064	3.116	35.160	7	72000			
88		22:30:00	39.50	382	2155	10.0	16.58		172	20.2	8.0	86.918	13.2001														
89		23:00:00	40.00	391	2338	10.0	17.08		193	19.9	8.0	89.639	15.0393				2.020		0.040	0.104	1.980	37.140	7	72000			
90		23:30:00	40.50	398	2504	10.0	17.58		193	19.7	8.0	89.069	16.9008														
91	2010/02/26	00:00:00	41.00	403	2654	10.0	18.08		200	20.7	8.0	92.415	18.7913				0.807	96.0	0.032	0.136	0.775	37.915	7	70000			
92		00:30:00	41.50	416	2830	10.0	18.58		207	20.9	8.0	94.057	20.7337														
93		01:00:00	42.00	373	3013	10.0	19.08		207	21.2	8.0	94.624	22.6991				0.692		0.028	0.164	0.664	38.579	7	70000			
94		01:11:00	42.18	**NOTE** H²S SAMPLE TAKEN = 50000 ppm (5%)																							
95		01:25:00	42.42	SHUT IN TUBING / MONITOR PRESSURES																							
96		01:29:00	42.48	4444	4019		19.50		0	0.0	0.0	0.000	22.6991				0.000		0.000	0.164	0.000	38.579					
97		01:29:00	42.48	OPEN TUBING TO FLOW ON 32/64" (12.7 mm) CHOKE																							
98		01:34:00	42.57	METER IN SERVICE ON 2.750" (69.85mm) ORIFICE PLATE																							
99		01:34:00	42.57	4341	4550	6.0	19.58		345	14.9	7.0	96.019	23.0325														
100		01:39:00	42.65	3017	4116	7.0	19.67		207	10.9	8.0	67.833	23.3170														
101		01:44:00	42.73	2436	4065	8.0	19.75		152	9.0	8.0	55.400	23.5309														
102		01:55:00	42.92	**NOTE** H²S SAMPLE TAKEN = 40000 ppm (4%)																							

Company: PARAMOUNT RESOURCES LTD.
 Unique Well ID: 60-10-117-15
 Start Date/Time: 2010/02/24 07:00
 End Date/Time: 2010/02/27 22:00

Well / Lease Name: PARA et al CAMERON M-74
 Formation: SULPHUR POINT DOLOMITE
 Pool: 1421.5 - 1425.0 mKB
 Job Number: 1018

				Wellhead				Gas Orifice Meter						Recovered/Produced Fluid Volumes													
	Date	Time	Cum Time	Tbg	Csg	WHT	Flow Time	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Swab	Tag	Pull	Fld Vol	BSW	Oil Gain	Oil Cum	H2O Gain	Cum H2O	pH	Salinity	API		
	YYYY/MM/DD	HH:mm:ss	h	kPa(g)	kPa(g)	°C	h	mm	kPa(g)	kPa	°C	10³m³/d	10³m³		m	m	m³	%	m³	m³	m³	m³		ppm	°API		
103	2010/02/26	02:00:00	43.00	2561	4071	8.0	20.02	69.85	131	10.5	8.0	57.300	24.1571				0.296	96.0	0.012	0.176	0.284	38.863	7	72000			
104		02:00:00	43.00	SHUT IN TUBING / MONITOR PRESSURES																							
105		02:05:00	43.08	4088	4578		20.02		0	0.0	0.0	0.000	24.1571				0.000		0.000	0.176	0.000	38.863					
106		02:10:00	43.17	4107	4618		20.02																				
107		02:15:00	43.25	4117	4640		20.02																				
108		02:30:00	43.50	4088	4723		20.02																				
109		02:45:00	43.75	4074	4731		20.02																				
110		03:00:00	44.00	4066	4744		20.02																				
111		03:30:00	44.50	4056	4774		20.02																				
112		04:00:00	45.00	4047	4777		20.02																				
113		04:30:00	45.50	4051	4774		20.02																				
114		05:00:00	46.00	4033	4775		20.02																				
115		05:30:00	46.50	4025	4778		20.02																				
116		06:00:00	47.00	4026	4777		20.02																				
117		06:30:00	47.50	4012	4776		20.02																				
118		07:00:00	48.00	4010	4779		20.02																				
119		07:30:00	48.50	4007	4778		20.02																				
120		08:00:00	49.00	4005	4781		20.02																				
121		08:30:00	49.50	4002	4779		20.02																				
122		09:00:00	50.00	3999	4780		20.02		0	0.0	0.0	0.000	24.1571				0.000		0.000	0.176	0.000	38.863					
123		09:00:00	50.00	OPEN TUBING TO FLOW ON 2.0" GUTLINE																							
124		09:03:00	50.05	**NOTE** FLUID TO SURFACE																							
125		09:05:00	50.08	479	4010		20.10																				
126		09:08:00	50.13	METER IN SERVICE ON 2.75" (69.85 mm) ORIFICE PLATE																							
127		09:10:00	50.17	410	3639		20.18																				
128		09:15:00	50.25	399	3543		20.27		193	31.4	16.0	111.483	25.3183														
129		09:30:00	50.50	387	3420		20.52		193	30.4	16.0	109.648	26.4701														
130		09:30:00	50.50	**NOTE** H²S SAMPLE TAKEN WITH RAE. = 40000 ppm (4%)																							
131		09:45:00	50.75	375	3396		20.77		192	30.1	14.0	109.292	27.6104				0.827	98.0	0.017	0.192	0.810	39.674	6	74000			
132		09:45:00	50.75	SHUT IN TUBING / MONITOR PRESSURES																							
133		09:50:00	50.83	4678	4732		20.77		0	0.0	0.0	0.000	27.6104				0.000		0.000	0.192	0.000	39.674					
134		09:55:00	50.92	4729	4743		20.77																				
135		10:00:00	51.00	4733	4798		20.77																				
136		10:15:00	51.25	4763	4772		20.77																				

Company: PARAMOUNT RESOURCES LTD.
 Unique Well ID: 60-10-117-15
 Start Date/Time: 2010/02/24 07:00
 End Date/Time: 2010/02/27 22:00

Well / Lease Name: PARA et al CAMERON M-74
 Formation: SULPHUR POINT DOLOMITE
 Pool: 1421.5 - 1425.0 mKB
 Job Number: 1018

				Wellhead				Gas Orifice Meter												Recovered/Produced Fluid Volumes											
	Date	Time	Cum Time	Tbg	Csg	WHT	Flow Time	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Swab	Tag	Pull	Fld Vol	BSW	Oil Gain	Oil Cum	H2O Gain	Cum H2O	pH	Salinity	API						
	YYYY/MM/DD	HH:mm:ss	h	kPa(g)	kPa(g)	°C	h	mm	kPa(g)	kPa	°C	10³m³/d	10³m³		m	m	m³	%	m³	m³	m³	m³		ppm	°API						
137	2010/02/26	10:30:00	51.50	4680	4771		20.77	69.85										98.0			m³	m³									
138		11:00:00	52.00	4634	4774		20.77																								
139		11:30:00	52.50	4676	4664		20.77																								
140		12:00:00	53.00	4642	4776		20.77																								
141		12:30:00	53.50	4638	4774		20.77																								
142		13:00:00	54.00	4639	4779		20.77																								
143		13:30:00	54.50	4630	4780		20.77																								
144		14:00:00	55.00	4632	4781		20.77																								
145		14:30:00	55.50	4630	4781		20.77																								
146		15:00:00	56.00	4629	4780		20.77																								
147		15:30:00	56.50	4632	4781		20.77																								
148		16:00:00	57.00	4630	4781		20.77																								
149		16:30:00	57.50	4626	4782		20.77																								
150		17:00:00	58.00	4623	4783		20.77																								
151		17:30:00	58.50	4623	4783		20.77																								
152		18:00:00	59.00	4623	4782		20.77																								
153		18:30:00	59.50	4623	4782		20.77																								
154		19:00:00	60.00	4620	4782		20.77																								
155		19:30:00	60.50	4619	4784		20.77																								
156		20:00:00	61.00	4620	4782		20.77																								
157		20:30:00	61.50	4619	4783		20.77																								
158		21:00:00	62.00	4618	4783		20.77																								
159		21:30:00	62.50	4618	4783		20.77																								
160		22:00:00	63.00	4616	4783		20.77																								
161		22:30:00	63.50	4616	4783		20.77																								
162		23:00:00	64.00	4617	4782		20.77																								
163		23:30:00	64.50	4615	4783		20.77																								
164	2010/02/27	00:00:00	65.00	4616	4784		20.77																								
165		00:30:00	65.50	4616	4784		20.77																								
166		01:00:00	66.00	4616	4783		20.77																								
167		01:30:00	66.50	4615	4784		20.77																								
168		02:00:00	67.00	4615	4785		20.77																								
169		02:30:00	67.50	4615	4784		20.77																								
170		03:00:00	68.00	4616	4784		20.77																								

Company: PARAMOUNT RESOURCES LTD.
 Unique Well ID: 60-10-117-15
 Start Date/Time: 2010/02/24 07:00
 End Date/Time: 2010/02/27 22:00

Well / Lease Name: PARA et al CAMERON M-74
 Formation: SULPHUR POINT DOLOMITE
 Pool: 1421.5 - 1425.0 mKB
 Job Number: 1018

				Wellhead				Gas Orifice Meter						Recovered/Produced Fluid Volumes											
	Date	Time	Cum Time	Tbg	Csg	WHT	Flow Time	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Swab	Tag	Pull	Fld Vol	BSW	Oil Gain	Oil Cum	H2O Gain	Cum H2O	pH	Salinity	API
	YYYY/MM/DD	HH:mm:ss	h	kPa(g)	kPa(g)	°C	h	mm	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³		m	m	m ³	%	m ³	m ³	m ³	m ³		ppm	°API
171	2010/02/27	03:30:00	68.50	4615	4784		20.77	69.85										98.0							
172		04:00:00	69.00	4614	4785		20.77																		
173		04:30:00	69.50	4614	4785		20.77																		
174		05:00:00	70.00	4614	4784		20.77																		
175		05:30:00	70.50	4613	4785		20.77																		
176		06:00:00	71.00	4613	4786		20.77																		
177		06:30:00	71.50	4613	4784		20.77																		
178		07:00:00	72.00	4611	4786		20.77																		
179		07:00:00	72.00	ATTEND SAFETY MEETING 9 PERSONAL ON LOCATION																					
180		07:30:00	72.50	4612	4787		20.77																		
181		08:00:00	73.00	4611	4784		20.77																		
182		08:30:00	73.50	4611	4785		20.77																		
183		08:50:00	73.83	WIRELINE ARRIVES ON LOCATION																					
184		09:00:00	74.00	4612	4785		20.77																		
185		09:15:00	74.25	ATTEND SAFETY MEETING 11 PERSONAL ON LOCATION / RIG IN WIRELINE UNIT																					
186		10:00:00	75.00	4601	4786		20.77																		
187		10:30:00	75.50	4602	4787		20.77																		
188		11:00:00	76.00	4603	4785		20.77																		
189		11:30:00	76.50	4605	4787		20.77																		
190		12:00:00	77.00	4607	4785		20.77																		
191		12:30:00	77.50	4606	4785		20.77																		
192		13:00:00	78.00	4603	4785		20.77																		
193		13:30:00	78.50	4602	4786		20.77																		
194		14:00:00	79.00	4601	4786																				
195		14:15:00	79.25	RIG OUT WIRELINE UNIT																					
196		15:05:00	80.08	RIG IN TO SUSPEND WELL AS DIRECTED																					
197		21:45:00	86.75	WELL SUSPENDED / RIG OUT EQUIPMENT																					
198		22:00:00	87.00	0	0	0.0	0.00	0.00	0	0.0	0.0	0.000	27.6104				0.000		0.000	0.192	0.000	39.674			



Providing Superior Value

Company Name **PARAMOUNT RESOURCES LTD.**

Well Name **PARA et al CAMERON M-74**

Unique Well ID **300 M74 60 10 117 15 0**

Formation **SULPHUR POINT DOLOMITE**

Well License Number **WID2063**

Test Type **Static Gradient**

Start Test Date **2010/02/27**

Final Test Date **2010/02/28**

Prepared By
Report Date

Pam Cruickshank
2010/03/04



Pure Energy Services Ltd.
10th Floor, 333 - 11th Avenue SW, Calgary, Alberta T2R 1L9
Phone: 403-262-4000 Fax: 403-237-9731
www.pure-energy.ca

Well Information

Company Name **PARAMOUNT RESOURCES LTD.**

Well Name **PARA et al CAMERON M-74**

Contact **DICK HEENAN**

Surface Location

Unique Well ID **300 M74 60 10 117 15 0**

Well Type **Vertical**

Well Fluid Type **01 Oil**

H2S Indicator **No**

KB Elevation (SL) **782.60 m**

GL Elevation (SL) **778.00 m**

CF Elevation (SL) **778.00 m**

KB-GL Offset **4.60 m**

KB-CF Offset **4.60 m**

Formation **SULPHUR POINT DOLOMITE**

Top(Log KB) **1421.50 m** Bottom(Log KB) **1425.00 m**

Top(TVD KB) **1421.50 m** Bottom(TVD KB) **1425.00 m**

Test Information

Test Type **Static Gradient**

Test Purpose (AEUB) **Initial Test**

Start Test Date **2010/02/27 20:37:00**

Final Test Date **2010/02/28 01:14:05**

Date Well Shut-In **2010/02/26 16:45:00**

Tubing OD **73.0 mm**

Tubing ID **62.0 mm**

Tubing Depth(Log KB) **1432.71000 m**

Tubing Depth(TVD KB) **1432.71000 m**

Tubing Pressure: Initial **4693.00 kPa(a)**

Tubing Pressure: Final **4693.00 kPa(a)**

Casing Pressure: Initial **4878.00 kPa(a)**

Casing Pressure: Final **4879.00 kPa(a)**

Casing OD **139.7 mm**

Casing ID **125.7 mm**

Casing Depth(Log KB) **1473.00000 m**

Casing Depth(TVD KB) **1473.00000 m**

Packer Depth(Log KB) **m**

Packer Depth(TVD KB) **m**

PBTD(Log KB) **1455.00 m**

PBTD(TVD KB) **1455.00 m**

Representative

Prepared By **Pam Cruickshank**

Qualified By **Steve Dawson**

Report Date **2010/03/04**

Test Results

Gauge Serial Number **80243**

Run Depth (Log KB) **1423.25 m**

Run Depth (TVD KB) **1423.25 m**

Pressure at Stop Depth **5469.30 kPa(a)**

MPP Depth **1423.25 m**

Representative Pressure at MPP **5469.30 kPa(a)**

Reservoir Temperature **53.97 °C**

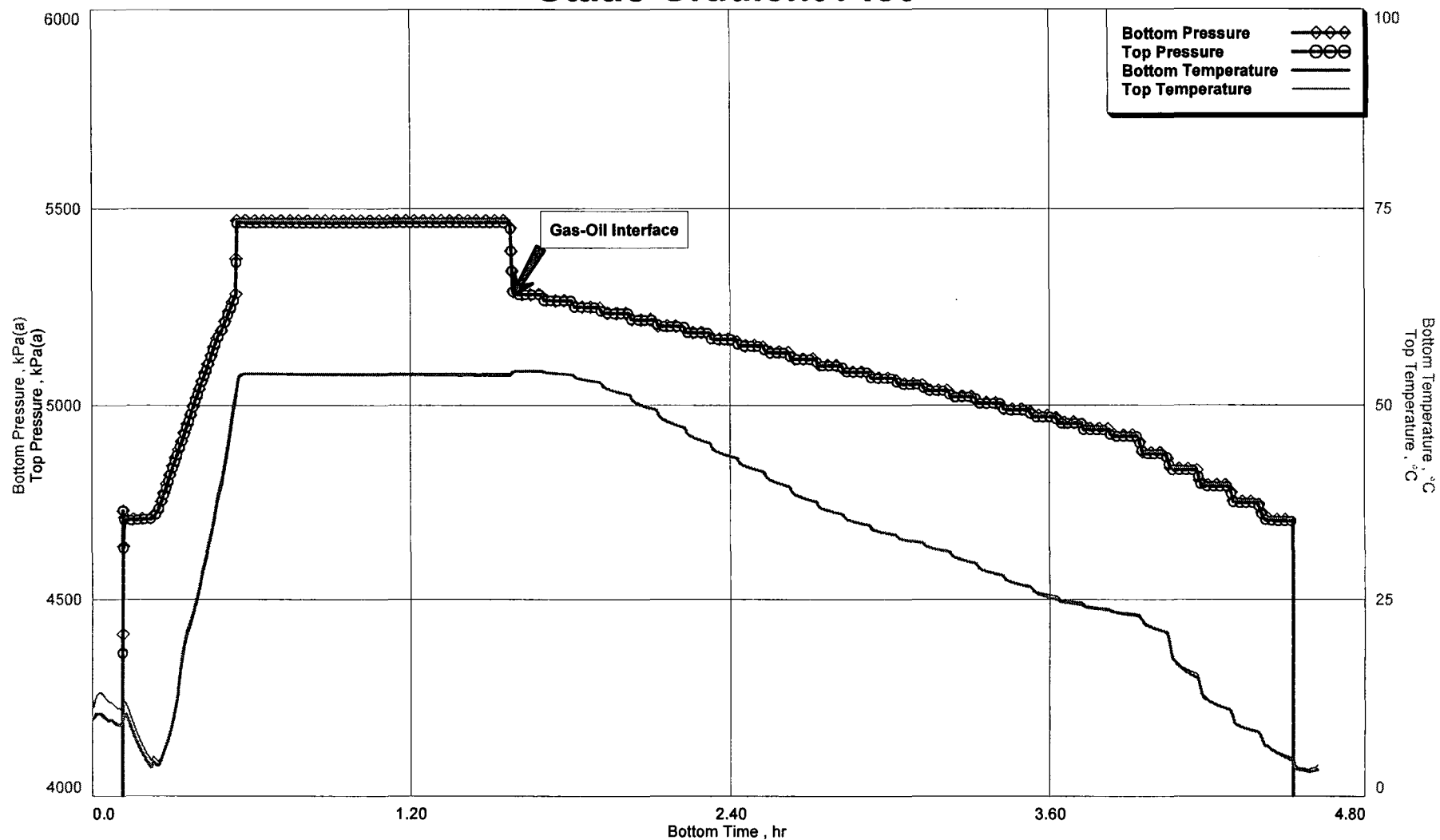
Liquid Level(TVD KB) **1404.77 m**

Remarks

PARAMOUNT RESOURCES LTD.
300 M74 60 10 117 15 0
Start Test Date: 2010/02/27
Final Test Date: 2010/02/28

PARA et al CAMERON M-74
Formation: SULPHUR POINT DOLOMITE

Static Gradient Plot



Recorder

Company Name	PARAMOUNT RESOURCES LTD.	Well Name	PARA et al CAMERON M-74
Unique Well ID	300 M74 60 10 117 15 0	Formation	SULPHUR POINT DOLOMITE
Start Test Date	2010/02/27		
Final Test Date	2010/02/28		

Gauge Name	Bottom	Gauge Type	Strain
Gauge Serial Number	80243	Gauge Manufacturer	Spartek Systems
Run Depth (TVD KB)	1423.25 m	Gauge Model	SS2552
Date of Last Calibration	2010/01/28	Maximum Recorder Range	41461.54 kPa
Gauge Start Date	2010/02/27	Gauge Start Time	20:37:00
Gauge Stop Date	2010/02/28	Gauge Stop Time	01:14:05
Date Gauge On Bottom	2010/02/27	Time Gauge On Bottom	21:10:05
Date Gauge Off Bottom	2010/02/27	Time Gauge Off Bottom	22:11:25

Gauge Name	Top	Gauge Type	Strain
Gauge Serial Number	80012	Gauge Manufacturer	Spartek Systems
Run Depth (TVD KB)	1423.00 m	Gauge Model	SS2552
Date of Last Calibration	2010/01/28	Maximum Recorder Range	41461.54 kPa
Gauge Start Date	2010/02/27	Gauge Start Time	20:37:00
Gauge Stop Date	2010/02/28	Gauge Stop Time	01:14:05
Date Gauge On Bottom	2010/02/27	Time Gauge On Bottom	21:10:05
Date Gauge Off Bottom	2010/02/27	Time Gauge Off Bottom	22:11:25

Static Gradient

2010/02/27

Company Name

PARAMOUNT RESOURCES LTD.

Well Name

PARA et al CAMERON M-74

Bottom

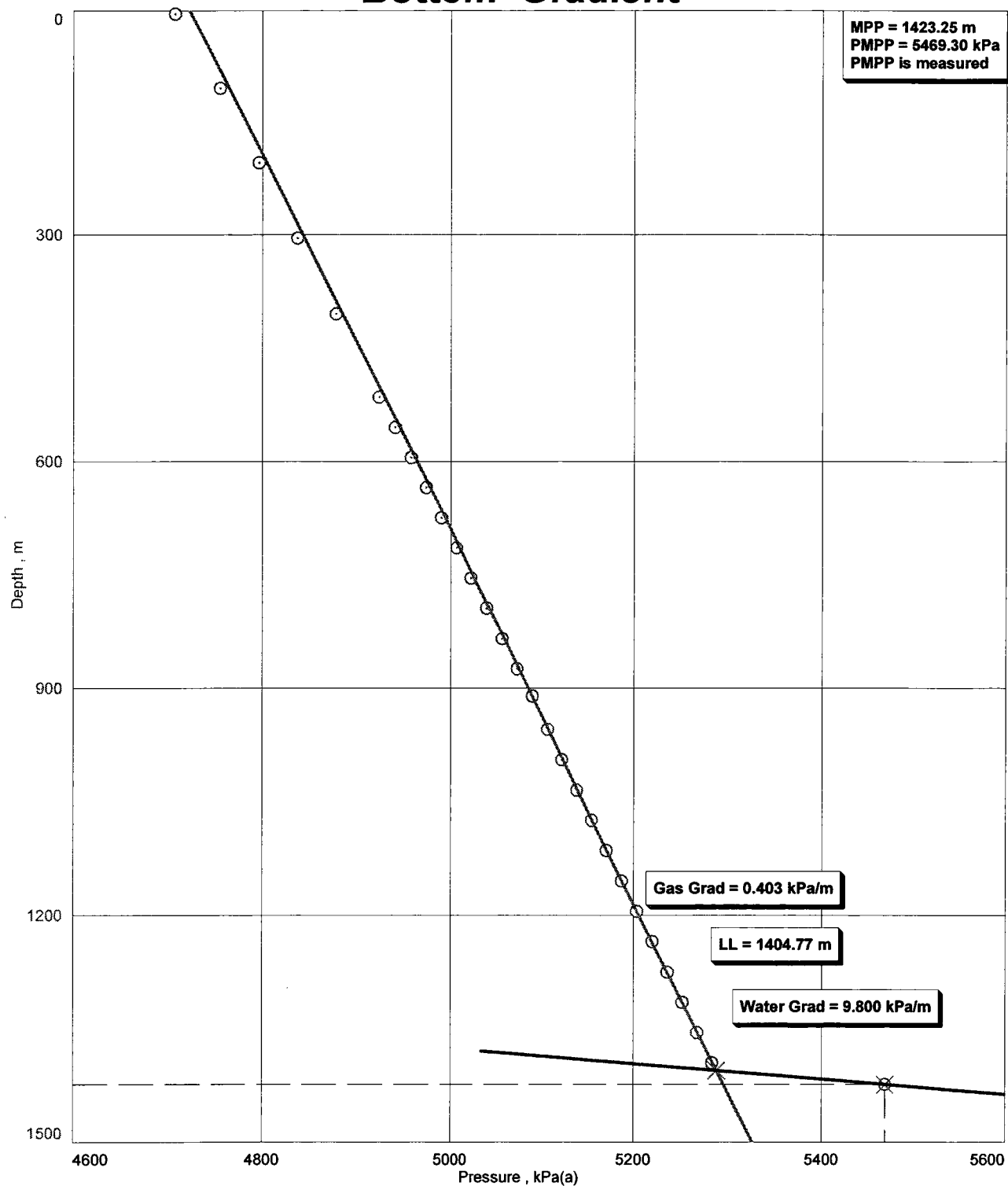
Top

Depth	Temp.	Pressure	Gradient	Gradient	Time	Depth	Temp.	Pressure	Gradient	Gradient
m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	°C	kPa(a)	kPa/m	°C/m
1423.25	53.97	5469.30			22:11:25	1423.00	54.19	5464.67		
1394.60	54.52	5283.48	6.486	-1.91e-02	22:18:25	1394.35	54.53	5282.81	6.348	-1.21e-02
1354.60	54.05	5267.54	0.399	1.16e-02	22:25:15	1354.35	54.05	5267.17	0.391	1.21e-02
1314.60	53.04	5251.72	0.396	2.52e-02	22:31:25	1314.35	53.03	5250.89	0.407	2.54e-02
1274.60	51.36	5236.15	0.389	4.21e-02	22:38:05	1274.35	51.37	5234.80	0.402	4.16e-02
1234.60	49.44	5220.07	0.402	4.80e-02	22:44:05	1234.35	49.40	5218.35	0.411	4.91e-02
1194.60	47.24	5203.68	0.410	5.50e-02	22:50:25	1194.35	47.24	5202.37	0.399	5.42e-02
1154.60	45.21	5187.28	0.410	5.06e-02	22:56:15	1154.35	45.21	5186.38	0.400	5.07e-02
1114.60	43.27	5170.94	0.408	4.85e-02	23:02:15	1114.35	43.29	5169.52	0.422	4.80e-02
1074.60	41.53	5154.58	0.409	4.35e-02	23:08:15	1074.35	41.54	5153.19	0.408	4.37e-02
1034.60	39.59	5138.19	0.410	4.84e-02	23:14:15	1034.35	39.61	5136.56	0.416	4.83e-02
994.60	37.67	5121.73	0.411	4.81e-02	23:20:15	994.35	37.67	5120.17	0.410	4.83e-02
954.60	36.09	5105.77	0.399	3.95e-02	23:26:05	954.35	36.10	5103.58	0.415	3.95e-02
910.60	34.64	5089.18	0.377	3.29e-02	23:32:15	910.35	34.65	5087.28	0.370	3.27e-02
874.60	33.39	5072.51	0.463	3.48e-02	23:38:15	874.35	33.42	5070.36	0.470	3.44e-02
834.60	32.38	5056.03	0.412	2.53e-02	23:44:15	834.35	32.40	5054.02	0.408	2.54e-02
794.60	31.22	5039.59	0.411	2.90e-02	23:50:15	794.35	31.33	5037.58	0.411	2.69e-02
754.60	29.69	5022.68	0.423	3.82e-02	23:56:15	754.35	29.74	5020.60	0.424	3.96e-02
714.60	28.14	5006.60	0.402	3.87e-02	00:02:15	714.35	28.17	5003.82	0.419	3.93e-02
674.60	26.67	4989.79	0.420	3.67e-02	00:08:15	674.35	26.79	4986.69	0.428	3.46e-02
634.60	25.05	4973.62	0.404	4.05e-02	00:14:15	634.35	25.46	4970.39	0.408	3.32e-02
594.60	24.38	4957.51	0.403	1.68e-02	00:20:05	594.35	24.65	4953.94	0.411	2.02e-02
554.60	23.67	4940.64	0.422	1.76e-02	00:26:15	554.35	23.83	4937.04	0.423	2.05e-02
514.60	22.95	4923.77	0.422	1.80e-02	00:32:55	514.35	23.14	4920.46	0.414	1.73e-02
404.60	20.85	4878.39	0.413	1.91e-02	00:39:15	404.35	20.88	4874.88	0.414	2.05e-02
304.60	15.15	4837.42	0.410	5.70e-02	00:46:15	304.35	15.61	4833.76	0.411	5.27e-02
204.60	11.07	4796.44	0.410	4.08e-02	00:53:35	204.35	11.18	4791.90	0.419	4.43e-02
104.60	8.22	4754.71	0.417	2.85e-02	01:00:15	104.35	8.24	4749.99	0.419	2.94e-02
4.60	4.55	4707.13	0.476	3.67e-02	01:08:25	4.35	4.87	4702.50	0.475	3.37e-02

PARAMOUNT RESOURCES LTD.
300 M74 60 10 117 15 0
Start Test Date: 2010/02/27
Final Test Date: 2010/02/28

PARA et al CAMERON M-74
Formation: SULPHUR POINT DOLOMITE

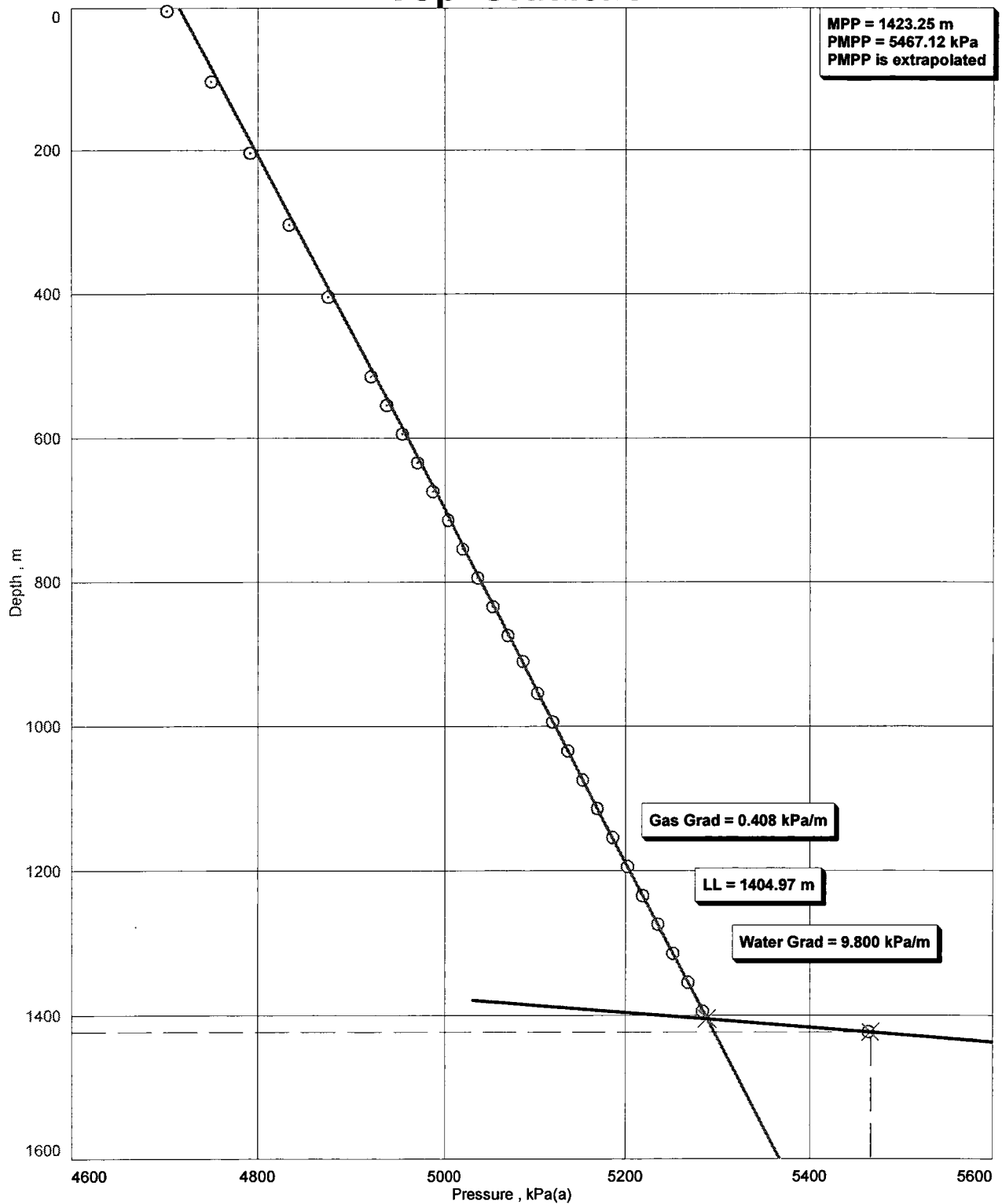
Bottom Gradient



PARAMOUNT RESOURCES LTD.
300 M74 60 10 117 15 0
Start Test Date: 2010/02/27
Final Test Date: 2010/02/28

PARA et al CAMERON M-74
Formation: SULPHUR POINT DOLOMITE

Top Gradient



Company Name **PARAMOUNT RESOURCES LTD.**
 Unique Well ID **300 M74 60 10 117 15 0**
 Start Test Date **2010/02/27**
 Final Test Date **2010/02/28**

PARA et al CAMERON M-74
SULPHUR POINT DOLOMITE

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2010/02/27 20:37:00	0.0000	116.33	9.82	0.0000	102.37	12.10
2	2010/02/27 20:37:50	0.0139	117.15	10.40	0.0139	106.78	12.48
3	2010/02/27 20:39:25	0.0403	116.88	10.21	0.0403	106.13	12.92
4	2010/02/27 20:41:05	0.0681	115.83	9.66	0.0681	106.18	11.97
5	2010/02/27 20:42:45	0.0958	115.74	9.13	0.0958	105.92	11.25
6	2010/02/27 20:44:25	0.1236	4712.04	10.51	0.1236	4706.29	12.04
7	2010/02/27 20:46:05	0.1514	4708.23	8.43	0.1514	4705.50	9.75
8	2010/02/27 20:47:45	0.1792	4709.15	6.23	0.1792	4706.22	7.38
9	2010/02/27 20:49:25	0.2069	4709.88	4.50	0.2069	4707.83	5.46
10	2010/02/27 20:51:05	0.2347	4715.83	4.33	0.2347	4712.78	5.03
11	2010/02/27 20:52:45	0.2625	4753.73	4.78	0.2625	4750.01	4.89
12	2010/02/27 20:54:25	0.2903	4809.16	7.52	0.2903	4805.05	7.22
13	2010/02/27 20:56:05	0.3181	4865.28	11.66	0.3181	4861.35	11.14
14	2010/02/27 20:57:45	0.3458	4918.95	18.67	0.3458	4915.09	17.88
15	2010/02/27 20:59:25	0.3736	4974.58	22.32	0.3736	4972.08	21.81
16	2010/02/27 21:01:05	0.4014	5029.99	25.69	0.4014	5027.53	25.15
17	2010/02/27 21:02:45	0.4292	5085.47	30.26	0.4292	5083.40	29.60
18	2010/02/27 21:04:25	0.4569	5140.38	34.32	0.4569	5137.62	33.66
19	2010/02/27 21:06:05	0.4847	5187.31	39.40	0.4847	5183.96	38.58
20	2010/02/27 21:07:45	0.5125	5230.40	44.34	0.5125	5226.99	43.40
21	2010/02/27 21:09:25	0.5403	5276.66	50.49	0.5403	5272.74	49.49
22	2010/02/27 21:11:05	0.5681	5470.76	54.07	0.5681	5465.25	53.97
23	2010/02/27 21:12:45	0.5958	5469.92	54.16	0.5958	5464.08	54.20
24	2010/02/27 21:14:25	0.6236	5469.52	54.15	0.6236	5464.05	54.25
25	2010/02/27 21:16:05	0.6514	5469.44	54.14	0.6514	5464.38	54.24
26	2010/02/27 21:17:45	0.6792	5469.36	54.12	0.6792	5464.66	54.24
27	2010/02/27 21:19:25	0.7069	5469.65	54.11	0.7069	5464.49	54.23
28	2010/02/27 21:21:05	0.7347	5469.68	54.10	0.7347	5464.27	54.22
29	2010/02/27 21:22:45	0.7625	5469.60	54.09	0.7625	5463.97	54.20
30	2010/02/27 21:24:25	0.7903	5469.60	54.09	0.7903	5464.38	54.19
31	2010/02/27 21:26:05	0.8181	5469.38	54.08	0.8181	5464.30	54.20
32	2010/02/27 21:27:45	0.8458	5469.53	54.08	0.8458	5464.13	54.20
33	2010/02/27 21:29:25	0.8736	5469.47	54.07	0.8736	5464.28	54.19
34	2010/02/27 21:31:05	0.9014	5469.56	54.06	0.9014	5464.30	54.19
35	2010/02/27 21:32:45	0.9292	5469.51	54.07	0.9292	5463.89	54.18
36	2010/02/27 21:34:25	0.9569	5469.51	54.06	0.9569	5464.50	54.19
37	2010/02/27 21:36:05	0.9847	5469.32	54.05	0.9847	5464.10	54.19
38	2010/02/27 21:37:45	1.0125	5469.09	54.05	1.0125	5464.31	54.20
39	2010/02/27 21:39:25	1.0403	5469.49	54.04	1.0403	5464.44	54.20
40	2010/02/27 21:41:05	1.0681	5469.70	54.04	1.0681	5464.28	54.19
41	2010/02/27 21:42:45	1.0958	5469.53	54.02	1.0958	5464.40	54.18
42	2010/02/27 21:44:25	1.1236	5469.64	54.01	1.1236	5464.39	54.19
43	2010/02/27 21:46:05	1.1514	5469.48	54.03	1.1514	5464.40	54.19
44	2010/02/27 21:47:45	1.1792	5469.52	54.02	1.1792	5464.57	54.18
45	2010/02/27 21:49:25	1.2069	5469.24	54.01	1.2069	5464.34	54.19

Print Filter: Approximately every 10 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80243	2010/02/27	20:37:00	1423.25 m
Top	80012	2010/02/27	20:37:00	1423.00 m

Company Name **PARAMOUNT RESOURCES LTD.**
 Unique Well ID **300 M74 60 10 117 15 0**
 Start Test Date **2010/02/27**
 Final Test Date **2010/02/28**

PARA et al CAMERON M-74
SULPHUR POINT DOLOMITE

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2010/02/27 21:51:05	1.2347	5469.75	54.01	1.2347	5464.76	54.20
47	2010/02/27 21:52:45	1.2625	5469.51	54.00	1.2625	5464.60	54.20
48	2010/02/27 21:54:25	1.2903	5469.51	54.00	1.2903	5464.65	54.20
49	2010/02/27 21:56:05	1.3181	5469.26	53.99	1.3181	5464.47	54.18
50	2010/02/27 21:57:45	1.3458	5469.07	53.98	1.3458	5464.75	54.19
51	2010/02/27 21:59:25	1.3736	5469.60	53.98	1.3736	5465.02	54.19
52	2010/02/27 22:01:05	1.4014	5469.42	53.98	1.4014	5464.61	54.19
53	2010/02/27 22:02:45	1.4292	5469.55	53.98	1.4292	5464.41	54.18
54	2010/02/27 22:04:25	1.4569	5469.29	53.97	1.4569	5464.59	54.17
55	2010/02/27 22:06:05	1.4847	5469.63	53.98	1.4847	5464.63	54.18
56	2010/02/27 22:07:45	1.5125	5469.36	53.97	1.5125	5464.73	54.19
57	2010/02/27 22:09:25	1.5403	5469.42	53.96	1.5403	5464.53	54.19
58	2010/02/27 22:11:05	1.5681	5469.45	53.97	1.5681	5464.67	54.19
59	2010/02/27 22:12:45	1.5958	5283.38	54.50	1.5958	5283.14	54.55
60	2010/02/27 22:14:25	1.6236	5283.26	54.52	1.6236	5283.37	54.55
61	2010/02/27 22:16:05	1.6514	5283.56	54.52	1.6514	5282.86	54.54
62	2010/02/27 22:17:45	1.6792	5283.12	54.52	1.6792	5282.79	54.54
63	2010/02/27 22:19:25	1.7069	5268.60	54.35	1.7069	5267.69	54.35
64	2010/02/27 22:21:05	1.7347	5268.43	54.24	1.7347	5267.37	54.23
65	2010/02/27 22:22:45	1.7625	5268.19	54.16	1.7625	5267.35	54.15
66	2010/02/27 22:24:25	1.7903	5268.41	54.08	1.7903	5267.51	54.08
67	2010/02/27 22:26:05	1.8181	5252.35	53.69	1.8181	5251.73	53.67
68	2010/02/27 22:27:45	1.8458	5251.64	53.40	1.8458	5251.09	53.39
69	2010/02/27 22:29:25	1.8736	5251.71	53.22	1.8736	5251.24	53.21
70	2010/02/27 22:31:05	1.9014	5251.67	53.07	1.9014	5250.98	53.06
71	2010/02/27 22:32:45	1.9292	5236.69	52.30	1.9292	5236.21	52.27
72	2010/02/27 22:34:25	1.9569	5236.29	51.92	1.9569	5235.86	51.90
73	2010/02/27 22:36:05	1.9847	5236.32	51.64	1.9847	5235.73	51.63
74	2010/02/27 22:37:45	2.0125	5235.77	51.40	2.0125	5235.29	51.42
75	2010/02/27 22:39:25	2.0403	5220.38	50.44	2.0403	5219.52	50.41
76	2010/02/27 22:41:05	2.0681	5220.08	50.00	2.0681	5218.94	49.96
77	2010/02/27 22:42:45	2.0958	5219.76	49.66	2.0958	5219.00	49.64
78	2010/02/27 22:44:25	2.1236	5214.05	49.36	2.1236	5213.73	49.35
79	2010/02/27 22:46:05	2.1514	5204.13	48.16	2.1514	5202.99	48.14
80	2010/02/27 22:47:45	2.1792	5203.79	47.75	2.1792	5202.72	47.72
81	2010/02/27 22:49:25	2.2069	5203.87	47.40	2.2069	5202.80	47.40
82	2010/02/27 22:51:05	2.2347	5189.01	46.71	2.2347	5187.36	46.68
83	2010/02/27 22:52:45	2.2625	5188.05	45.91	2.2625	5186.80	45.90
84	2010/02/27 22:54:25	2.2903	5187.74	45.53	2.2903	5186.77	45.52
85	2010/02/27 22:56:05	2.3181	5187.60	45.24	2.3181	5186.14	45.24
86	2010/02/27 22:57:45	2.3458	5171.62	44.16	2.3458	5170.46	44.14
87	2010/02/27 22:59:25	2.3736	5171.06	43.76	2.3736	5169.86	43.74
88	2010/02/27 23:01:05	2.4014	5171.03	43.45	2.4014	5169.98	43.46
89	2010/02/27 23:02:45	2.4292	5159.20	43.03	2.4292	5158.70	43.04
90	2010/02/27 23:04:25	2.4569	5155.01	42.20	2.4569	5153.40	42.18

Print Filter: Approximately every 10 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80243	2010/02/27	20:37:00	1423.25 m
Top	80012	2010/02/27	20:37:00	1423.00 m

Company Name **PARAMOUNT RESOURCES LTD.**
 Unique Well ID **300 M74 60 10 117 15 0**
 Start Test Date **2010/02/27**
 Final Test Date **2010/02/28**

PARA et al CAMERON M-74
SULPHUR POINT DOLOMITE

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2010/02/27 23:06:05	2.4847	5154.86	41.87	2.4847	5153.59	41.86
92	2010/02/27 23:07:45	2.5125	5154.80	41.60	2.5125	5153.32	41.60
93	2010/02/27 23:09:25	2.5403	5138.57	40.67	2.5403	5137.33	40.64
94	2010/02/27 23:11:05	2.5681	5138.29	40.19	2.5681	5136.95	40.16
95	2010/02/27 23:12:45	2.5958	5138.19	39.85	2.5958	5136.70	39.84
96	2010/02/27 23:14:25	2.6236	5134.19	39.56	2.6236	5133.22	39.57
97	2010/02/27 23:16:05	2.6514	5121.95	38.47	2.6514	5120.39	38.45
98	2010/02/27 23:17:45	2.6792	5122.05	38.10	2.6792	5120.64	38.07
99	2010/02/27 23:19:25	2.7069	5122.21	37.81	2.7069	5120.34	37.79
100	2010/02/27 23:21:05	2.7347	5106.37	37.03	2.7347	5104.39	37.00
101	2010/02/27 23:22:45	2.7625	5106.00	36.58	2.7625	5103.67	36.58
102	2010/02/27 23:24:25	2.7903	5105.54	36.31	2.7903	5103.75	36.31
103	2010/02/27 23:26:05	2.8181	5105.77	36.09	2.8181	5103.80	36.12
104	2010/02/27 23:27:45	2.8458	5089.39	35.29	2.8458	5087.60	35.30
105	2010/02/27 23:29:25	2.8736	5089.03	35.00	2.8736	5087.43	35.00
106	2010/02/27 23:31:05	2.9014	5089.06	34.78	2.9014	5087.26	34.78
107	2010/02/27 23:32:45	2.9292	5074.85	34.39	2.9292	5073.80	34.39
108	2010/02/27 23:34:25	2.9569	5072.59	33.82	2.9569	5070.59	33.83
109	2010/02/27 23:36:05	2.9847	5072.67	33.61	2.9847	5070.70	33.62
110	2010/02/27 23:37:45	3.0125	5072.62	33.43	3.0125	5070.51	33.46
111	2010/02/27 23:39:25	3.0403	5056.64	32.86	3.0403	5054.18	32.86
112	2010/02/27 23:41:05	3.0681	5055.93	32.65	3.0681	5053.86	32.65
113	2010/02/27 23:42:45	3.0958	5056.02	32.49	3.0958	5053.91	32.50
114	2010/02/27 23:44:25	3.1236	5053.28	32.37	3.1236	5051.61	32.38
115	2010/02/27 23:46:05	3.1514	5039.65	31.72	3.1514	5037.49	31.74
116	2010/02/27 23:47:45	3.1792	5039.56	31.49	3.1792	5037.34	31.54
117	2010/02/27 23:49:25	3.2069	5039.59	31.30	3.2069	5037.05	31.39
118	2010/02/27 23:51:05	3.2347	5023.45	30.65	3.2347	5021.38	30.69
119	2010/02/27 23:52:45	3.2625	5023.06	30.23	3.2625	5020.80	30.27
120	2010/02/27 23:54:25	3.2903	5023.16	29.94	3.2903	5020.73	29.99
121	2010/02/27 23:56:05	3.3181	5023.14	29.71	3.3181	5020.58	29.76
122	2010/02/27 23:57:45	3.3458	5006.63	28.85	3.3458	5004.44	28.87
123	2010/02/27 23:59:25	3.3736	5006.85	28.53	3.3736	5004.10	28.55
124	2010/02/28 00:01:05	3.4014	5006.49	28.28	3.4014	5003.96	28.31
125	2010/02/28 00:02:45	3.4292	4991.53	27.86	3.4292	4989.75	27.87
126	2010/02/28 00:04:25	3.4569	4990.00	27.23	3.4569	4987.22	27.27
127	2010/02/28 00:06:05	3.4847	4989.97	26.95	3.4847	4987.17	27.03
128	2010/02/28 00:07:45	3.5125	4989.89	26.73	3.5125	4987.08	26.83
129	2010/02/28 00:09:25	3.5403	4974.01	26.11	3.5403	4970.77	26.18
130	2010/02/28 00:11:05	3.5681	4973.45	25.58	3.5681	4970.26	25.84
131	2010/02/28 00:12:45	3.5958	4973.52	25.28	3.5958	4970.51	25.62
132	2010/02/28 00:14:25	3.6236	4971.34	25.03	3.6236	4968.45	25.44
133	2010/02/28 00:16:05	3.6514	4957.55	24.67	3.6514	4954.20	24.91
134	2010/02/28 00:17:45	3.6792	4957.42	24.53	3.6792	4953.70	24.79
135	2010/02/28 00:19:25	3.7069	4957.24	24.42	3.7069	4953.95	24.69

Print Filter: Approximately every 10 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80243	2010/02/27	20:37:00	1423.25 m
Top	80012	2010/02/27	20:37:00	1423.00 m

Company Name **PARAMOUNT RESOURCES LTD.**
 Unique Well ID **300 M74 60 10 117 15 0**
 Start Test Date **2010/02/27**
 Final Test Date **2010/02/28**

PARA et al CAMERON M-74
SULPHUR POINT DOLOMITE

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
136	2010/02/28 00:21:05	3.7347	4941.13	24.05	3.7347	4937.61	24.21
137	2010/02/28 00:22:45	3.7625	4940.72	23.88	3.7625	4937.20	24.03
138	2010/02/28 00:24:25	3.7903	4940.77	23.77	3.7903	4937.18	23.93
139	2010/02/28 00:26:05	3.8181	4940.72	23.68	3.8181	4937.03	23.84
140	2010/02/28 00:27:45	3.8458	4924.34	23.37	3.8458	4920.92	23.48
141	2010/02/28 00:29:25	3.8736	4924.34	23.20	3.8736	4920.74	23.34
142	2010/02/28 00:31:05	3.9014	4924.04	23.06	3.9014	4920.68	23.24
143	2010/02/28 00:32:45	3.9292	4923.97	22.96	3.9292	4920.63	23.15
144	2010/02/28 00:34:25	3.9569	4879.08	21.91	3.9569	4875.86	21.94
145	2010/02/28 00:36:05	3.9847	4878.97	21.43	3.9847	4875.17	21.45
146	2010/02/28 00:37:45	4.0125	4878.77	21.10	4.0125	4874.94	21.12
147	2010/02/28 00:39:25	4.0403	4875.26	20.83	4.0403	4871.76	20.85
148	2010/02/28 00:41:05	4.0681	4837.50	17.35	4.0681	4833.96	17.35
149	2010/02/28 00:42:45	4.0958	4837.54	16.35	4.0958	4834.03	16.56
150	2010/02/28 00:44:25	4.1236	4837.33	15.69	4.1236	4833.67	16.04
151	2010/02/28 00:46:05	4.1514	4837.34	15.19	4.1514	4833.56	15.65
152	2010/02/28 00:47:45	4.1792	4796.33	12.71	4.1792	4792.04	12.80
153	2010/02/28 00:49:25	4.2069	4795.89	12.03	4.2069	4791.59	12.09
154	2010/02/28 00:51:05	4.2347	4795.97	11.57	4.2347	4791.66	11.65
155	2010/02/28 00:52:45	4.2625	4796.31	11.22	4.2625	4791.84	11.32
156	2010/02/28 00:54:25	4.2903	4769.08	10.33	4.2903	4766.46	10.36
157	2010/02/28 00:56:05	4.3181	4753.77	8.95	4.3181	4749.92	8.93
158	2010/02/28 00:57:45	4.3458	4754.28	8.59	4.3458	4749.74	8.58
159	2010/02/28 00:59:25	4.3736	4754.41	8.33	4.3736	4749.95	8.34
160	2010/02/28 01:01:05	4.4014	4729.53	7.57	4.4014	4726.10	7.56
161	2010/02/28 01:02:45	4.4292	4708.57	6.24	4.4292	4704.77	6.23
162	2010/02/28 01:04:25	4.4569	4707.35	5.62	4.4569	4702.84	5.71
163	2010/02/28 01:06:05	4.4847	4707.31	5.14	4.4847	4703.10	5.31
164	2010/02/28 01:07:45	4.5125	4706.92	4.68	4.5125	4702.60	4.99
165	2010/02/28 01:09:25	4.5403	120.71	3.45	4.5403	109.90	3.69
166	2010/02/28 01:11:05	4.5681	114.93	3.26	4.5681	114.10	3.50
167	2010/02/28 01:12:45	4.5958	118.22	3.24	4.5958	110.35	3.58
168	2010/02/28 01:14:05	4.6181	115.85	3.42	4.6181	110.57	4.03

Print Filter: Approximately every 10 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80243	2010/02/27	20:37:00	1423.25 m
Top	80012	2010/02/27	20:37:00	1423.00 m

Customer: PARAMOUNT RESOURCES LTD.

Customer Rep: Kim Mcloed
se: High Level

Service Order #: 710719

Formation: Sulphur Point (Lower)

Program #: 235177

Location: M-74 60' 10' 117' 15'

Well Name:

Well Type: Oil

Rig #: 41

Date: Feb-25-2010 10:00 (MST)

Treatment Type: Acid Treatment

Supervisor: Langford, Trevor

Project #:

Schedule 1

Treatment Information

Acid Sample: No
Max Casing Pressure: 21.0 MPa
Max Treatment Pressure: 6.9 MPa
Max Tubing Pressure:
Min Treatment Pressure: 0.0 MPa
Instructions:

Tubing / Casing

Tubular	Size (mm)	Top (m TMD)	Bottom (m TMD)	Grade	Weight (kg/m)	Interval Volume (m³)
API Tubing	73.00	0.0	1445.0			4.36
Casing	139.70	0.0	1465.0	J-55	20.83	18.65

Schedule Information

Comments:

Total Depth:

Measured Depth:

Hole Size: 0.00 mm

Hole Volume: 0.00 m³

Frac Gradient:

Perforations

Perforations 1421.5 - 1425 m

Total Fluid Information

Chemical Name	Total	Chemical Name	Total	Chemical Name	Total	Chemical Name	Total
Produced Water	36.55 m³	HCl (15%)	5.00 m³	IC-4	50.00 L	AI-7NR	30.00 L
IF-1	4.00 kg	IF-2	5.00 kg	ASA-60	100.00 L	DF-1	0.50 L
SI-2	5.00 L	Water	1.75 m³				

Fluid Systems Information

Tank Group Name	Tank Fluid Density (kg/m³)	Tank Fluid Temp (°C)	Tank Fluids Names	Fluid System Name	Additives
KCL			Produced Water(100%; 36.55 m³)	KCl Water (3%)	
Mud Wash 20 (5%)			Water(100%; 1.75 m³)	Mud Wash 2020 (5%)	
Platinum 5000 - 15% HCl			HCl (15%)(100%; 5.00 m³)	Platinum 5000	IC-4(10.0 L/m³, 50.00 L, bulk plant); AI-7NR(6.0 L/m³, 30.00 L, bulk plant); IF-1(0.8 kg/m³, 4.00 kg, bulk plant); IF-2(1.0 kg/m³, 5.00 kg, bulk plant); ASA-60(20.0 L/m³, 100.00 L, bulk plant); DF-1(0.1 L/m³, 0.50 L, bulk plant); SI-2(1.0 L/m³, 5.00 L, bulk plant)

Schedule Details

#	Time	Tubing (MPa)	Casing (MPa)	Base Fluid	Base fluid Rate m³/min	Base fluid Per Stage (m³)	Base fluid Cum. Total (m³)	Interval From (m)	Interval To (m)	Fluid in Formation (m³)	Fluid in Formation Cum. Total (m³)	Remarks
1	10:45				0.00	0.00					0.00	Safety Meeting
2	11:02	2.0	0.0	KCl Water (3%)	0.40	12.40	12.40				0.00	Fill Hole
3	11:37	14.0		KCl Water (3%)	0.00	0.00	12.40				0.00	Pressure Test
4	11:45	3.0	2.0	Mud Wash 2020 (5%)	0.45	1.75	14.15				0.00	Start Mud Wash
5	11:49	3.0	2.0	KCl Water (3%)	0.45	2.85	17.00				0.00	Displace
6	12:02	6.9	6.9	KCl Water (3%)	0.05	2.20	19.20				0.00	Squeeze
7	13:17	2.0	2.0	Platinum 5000	0.15	1.00	20.20				0.00	Start Pickle Acid
8	13:24	2.0	2.0	KCl Water (3%)	0.15	3.00	23.20				0.00	Displace
9	13:44	1.5	1.5	KCl Water (3%)	0.30	5.20	28.40				0.00	Reverse Circulate
10	14:03	2.5	2.0	Platinum 5000	0.30	4.00	32.40				0.00	Start Acid
11	14:16	2.5	2.0	KCl Water (3%)	0.30	0.70	33.10				0.00	Displace
12	14:19	0.4	0.4	KCl Water (3%)	0.48	4.40	37.50				0.00	Squeeze
13	14:36	0.0	0.0		0.00	0.00	37.50				0.00	Shut down
14	14:38				0.00	0.00	37.50				0.00	Shut In
15	14:40				0.00	0.00	37.50				0.00	Rig Out
16	15:30				0.00	0.00	37.50				0.00	Thank you

Customer: PARAMOUNT RESOURCES LTD.

Customer Rep: Kim Mcloed

Base: High Level

Service Order #: 710719

Formation: Sulphur Point (Lower)

Location: M-74 60' 10' 117' 15'

Well Name:

Well Type: Oil

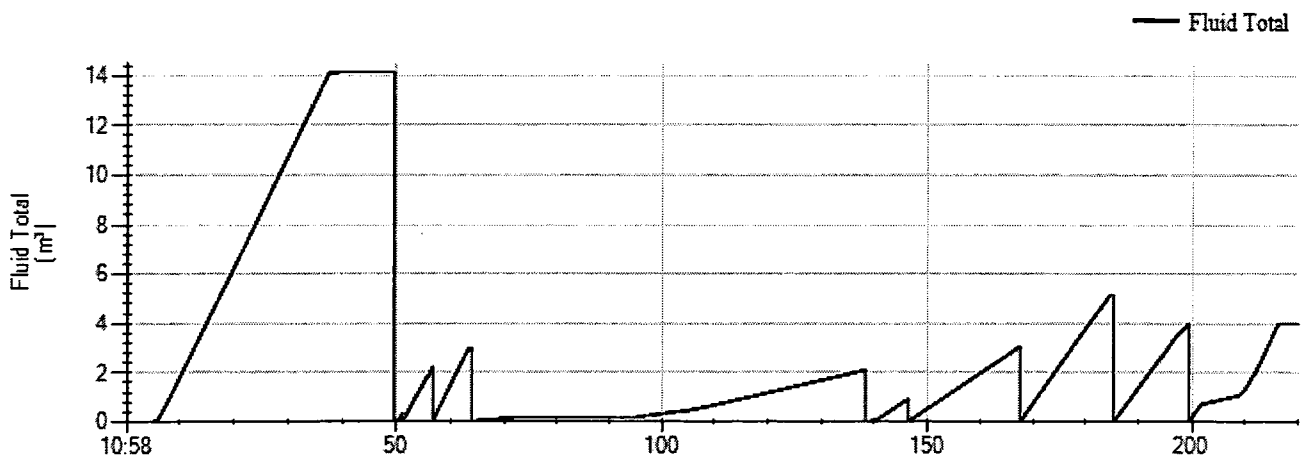
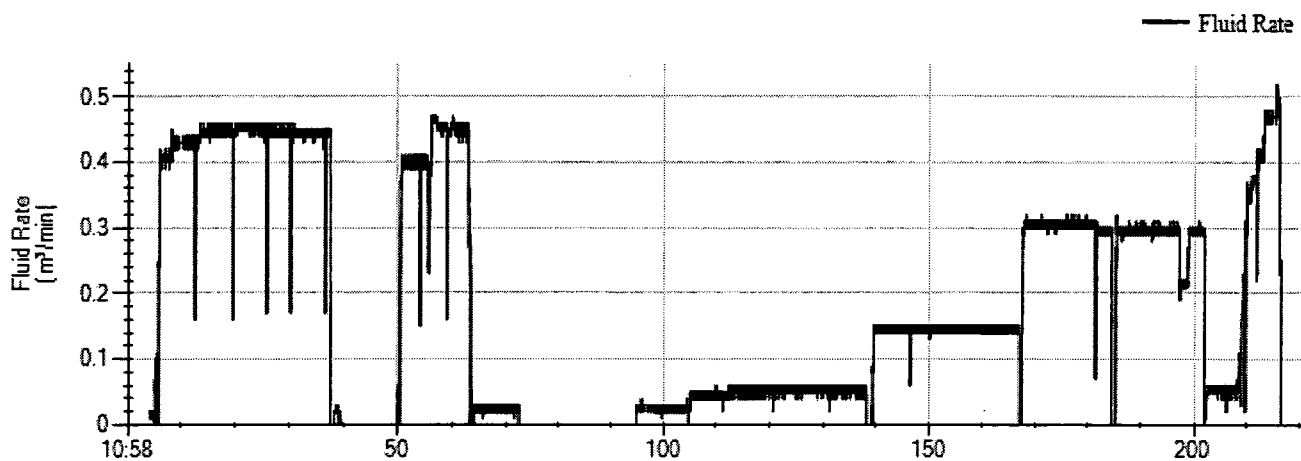
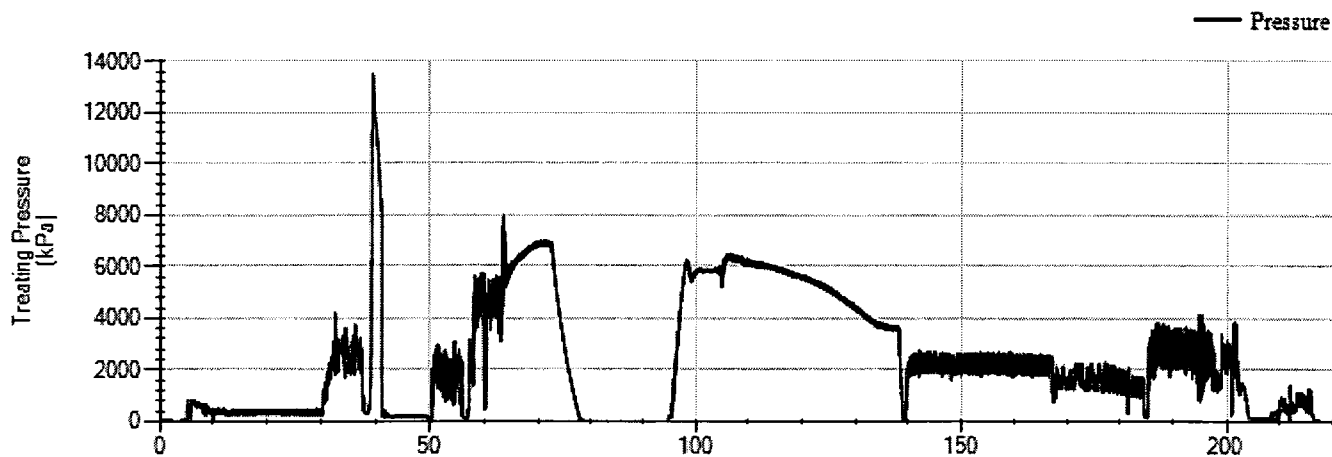
Date: Feb-25-2010 10:00 (MST)

Treatment Type: Acid Treatment

Supervisor: Langford, Trevor

Project #:

Schedule 1





DEPARTURE
ENERGY SERVICES INC.

Departure Energy Services Inc.
Sales Office Tel: 403.266.3940
Operations Tel: 780.980.3900
www.departureenergy.com



Paramount Resources Ltd.

Cameron
Para et al Cameron M-74
M-74
Vertical

Survey: Update

Well License: # 1221
UWI: 300M 74 601011 7150

Survey Report

31 May, 2010



Paramount Resources Ltd.

Site: Para et al Cameron M-74
Well: M-74
Wellbore: Vertical
Design: Final

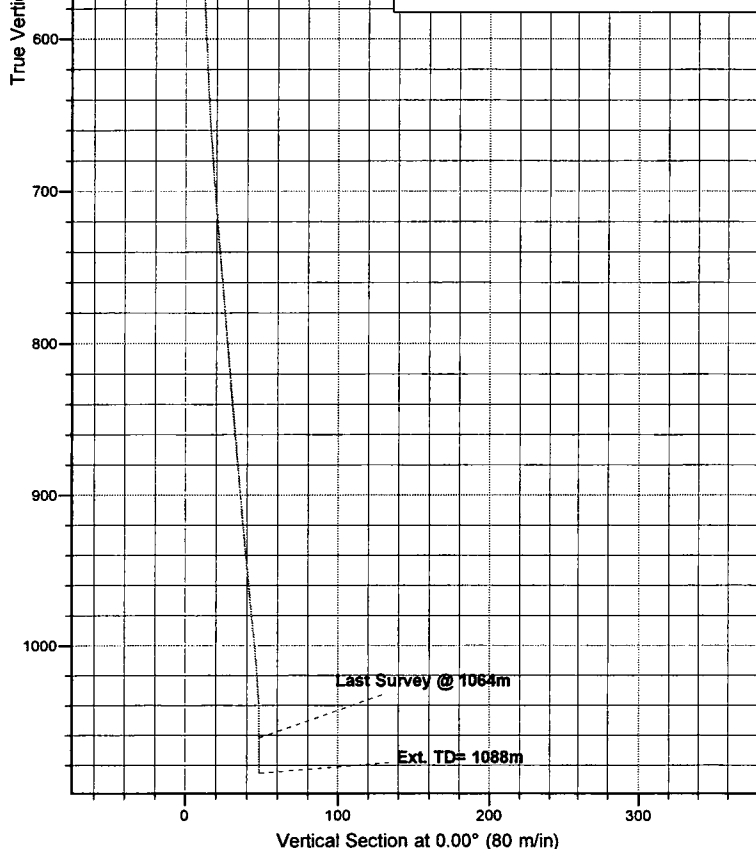
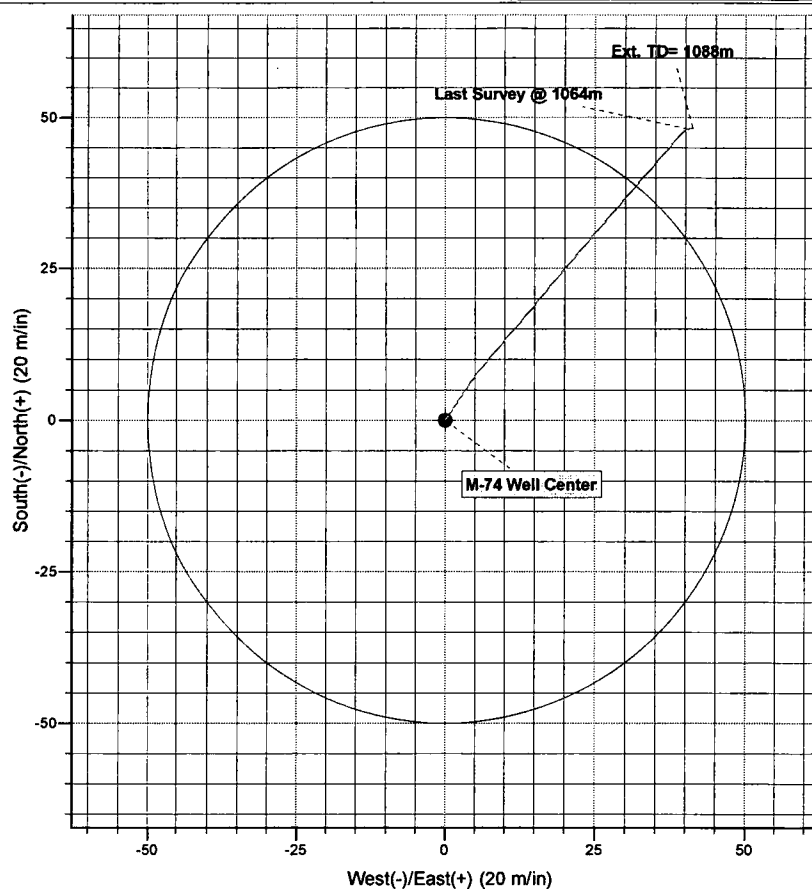
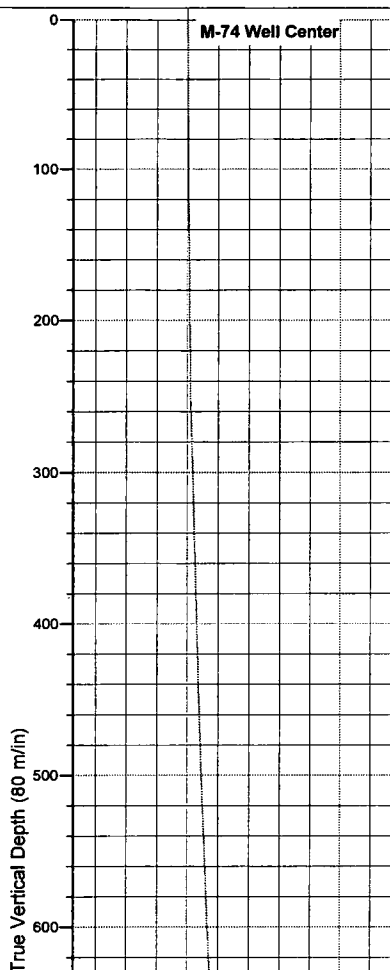
Reference Details - WELL CENTRE

Geodetic System: Universal Transverse Mercator
Ellipsoid: GRS 1980
Zone: Zone 11N (120 W to 114 W)
Northing: 6658903.49
Easting: 472216.67
Latitude: 60° 3' 58.800 N
Longitude: 117° 29' 56.800 W
Grid Convergence: 0.43° East
Ground Elevation: 777.93
KB Elevation: Actual KB @ 782.13m (Precision 436)



DEPARTURE
ENERGY SERVICES INC.

Operations: 780.980.3900
Sales Office: 403.266.3940
www.departureenergy.com



Azimuths to True North
Magnetic North: 19.96°
Magnetic Field
Strength: 58771.3nT
Dip Angle: 79.22°
Date: 1/25/2010
Model: IGRF2010

ANNOTATIONS

TVD	MD	Annotation
1061.64	1064.39	Last Survey @ 1064m
1085.24	1088.00	Ext. TD= 1088m

Company:	Paramount Resources Ltd.	Local Co-ordinate Reference:	Well M-74
Project:	Cameron	TVD Reference:	Actual KB @ 782.13m (Precision 436)
Site:	Para et al Cameron M-74	MD Reference:	Actual KB @ 782.13m (Precision 436)
Well:	M-74	North Reference:	True
Wellbore:	Vertical	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 2003.21 DB

Project	Cameron		
Map System:	Universal Transverse Mercator	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 11N (120 W to 114 W)	Using geodetic scale factor	

Site	Para et al Cameron M-74				
Site Position:		Northing:	6,658,903.49 m	Latitude:	60° 3' 58.800 N
From:	Lat/Long	Easting:	472,216.67 m	Longitude:	117° 29' 56.800 W
Position Uncertainty:	0.00 m	Slot Radius:	mm	Grid Convergence:	-0.43 °

Well	M-74					
Well Position	+N/-S	0.00 m	Northing:	6,658,903.49 m	Latitude:	60° 3' 58.800 N
	+E/-W	0.00 m	Easting:	472,216.67 m	Longitude:	117° 29' 56.800 W
Position Uncertainty		0.00 m	Wellhead Elevation:	m	Ground Level:	777.93 m

Wellbore	Vertical				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/25/2010	19.96	79.22	58,771

Design	Final				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	
Vertical Section:	Depth From (TVD) (m)	+N/-S (m)	+E/-W (m)	Direction (°)	
	0.00	0.00	0.00	0.00	

Survey Program	Date	5/31/2010			
From (m)	To (m)	Survey (Wellbore)	Tool Name	Description	
11.00	1,064.39	Update (Vertical)	MWD	MWD - Standard	

Survey										
MD (m)	Inc (°)	Azi (°)	TVD (m)	SS (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
0.00	0.00	0.00	0.00	782.13	0.00	0.00	0.00	0.00	0.00	0.00
11.00	0.50	34.10	11.00	771.13	0.04	0.03	0.04	1.36	1.36	0.00
91.00	0.50	34.10	91.00	691.13	0.62	0.42	0.62	0.00	0.00	0.00
122.00	0.25	34.10	122.00	660.13	0.79	0.53	0.79	0.24	-0.24	0.00
147.00	1.00	34.10	146.99	635.14	1.01	0.68	1.01	0.90	0.90	0.00
175.00	1.00	34.10	174.99	607.14	1.42	0.96	1.42	0.00	0.00	0.00
203.00	0.50	34.10	202.99	579.14	1.72	1.16	1.72	0.54	-0.54	0.00
231.00	0.50	34.10	230.99	551.14	1.92	1.30	1.92	0.00	0.00	0.00
260.00	2.00	34.10	259.98	522.15	2.45	1.66	2.45	1.55	1.55	0.00
298.00	2.00	34.10	297.96	484.17	3.54	2.40	3.54	0.00	0.00	0.00
327.00	1.50	34.10	326.94	455.19	4.28	2.90	4.28	0.52	-0.52	0.00
346.00	2.00	34.10	345.93	436.20	4.76	3.22	4.76	0.79	0.79	0.00
389.60	1.60	34.10	389.51	392.62	5.89	3.99	5.89	0.28	-0.28	0.00

Company:	Paramount Resources Ltd.	Local Co-ordinate Reference:	Well M-74
Project:	Cameron	TVD Reference:	Actual KB @ 782.13m (Precision 436)
Site:	Para et al Cameron M-74	MD Reference:	Actual KB @ 782.13m (Precision 436)
Well:	M-74	North Reference:	True
Wellbore:	Vertical	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 2003.21 DB

Survey

MD (m)	Inc (°)	Azi (°)	TVD (m)	SS (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
503.77	2.80	40.40	503.60	278.53	9.34	6.69	9.34	0.32	0.32	1.66
618.09	3.50	41.80	617.74	164.39	14.06	10.83	14.06	0.18	0.18	0.37
732.17	6.30	39.40	731.39	50.74	21.50	17.12	21.50	0.74	0.74	-0.63
846.11	6.00	41.10	844.68	-62.55	30.82	25.00	30.82	0.09	-0.08	0.45
987.37	7.60	40.80	984.94	-202.81	43.45	35.96	43.45	0.34	0.34	-0.06
1,009.00	6.50	41.10	1,006.41	-224.28	45.46	37.70	45.46	1.53	-1.53	0.42
1,026.41	5.50	41.80	1,023.72	-241.59	46.82	38.91	46.82	1.73	-1.72	1.21
1,035.93	4.20	43.30	1,033.21	-251.08	47.42	39.45	47.42	4.12	-4.10	4.73
1,045.41	2.60	48.90	1,042.67	-260.54	47.81	39.85	47.81	5.17	-5.06	17.72
1,054.90	1.90	65.80	1,052.15	-270.02	48.02	40.15	48.02	3.03	-2.21	53.42
Last Survey @ 1064m										
1,064.39	1.80	79.50	1,061.64	-279.51	48.11	40.44	48.11	1.43	-0.32	43.31
Ext. TD= 1088m										
1,088.00	1.80	79.50	1,085.24	-303.11	48.24	41.17	48.24	0.00	0.00	0.00

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (m)	+N/-S (m)	+E/-W (m)	Northing (m)	Easting (m)	Latitude	Longitude
M-74 Well Center - survey hits target center - Circle (radius 50.00)	0.00	0.00	0.00	0.00	0.00	6,658,903.49	472,216.67	60° 3' 58.800 N	117° 29' 56.800 W

Survey Annotations

MD (m)	TVD (m)	Local Coordinates		Comment
		+N/-S (m)	+E/-W (m)	
1,064.39	1,061.64	48.11	40.44	Last Survey @ 1064m
1,088.00	1,085.24	48.24	41.17	Ext. TD= 1088m

Checked By: _____ Approved By: _____ Date: _____



Paramount Resources Ltd.

Site: Para et al Cameron M-74
Well: M-74
Wellbore: Sidetrack
Design: Sidetrack Final

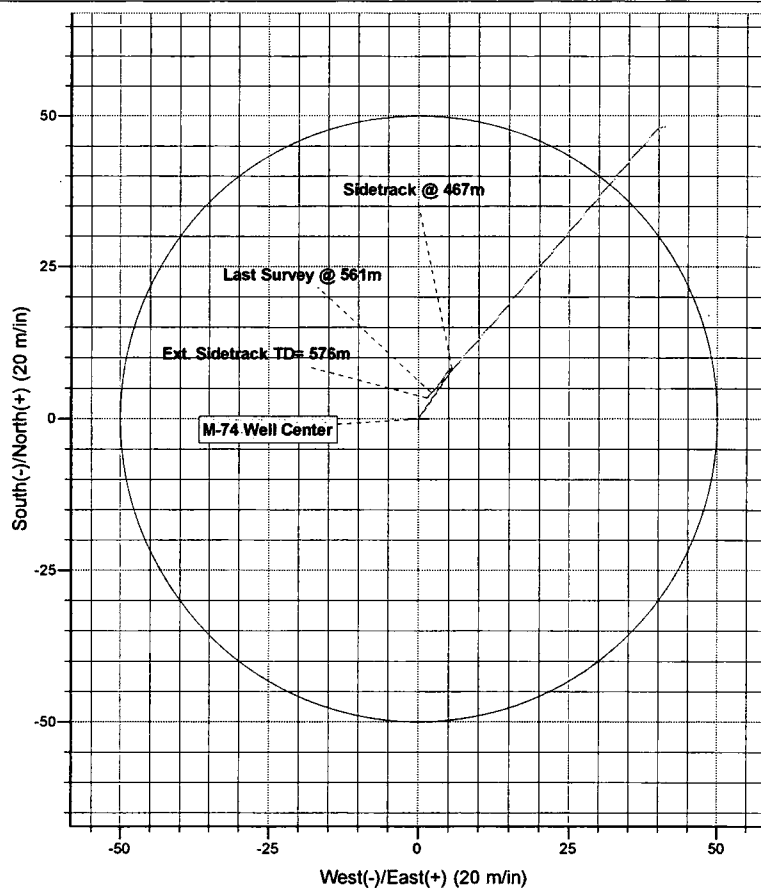
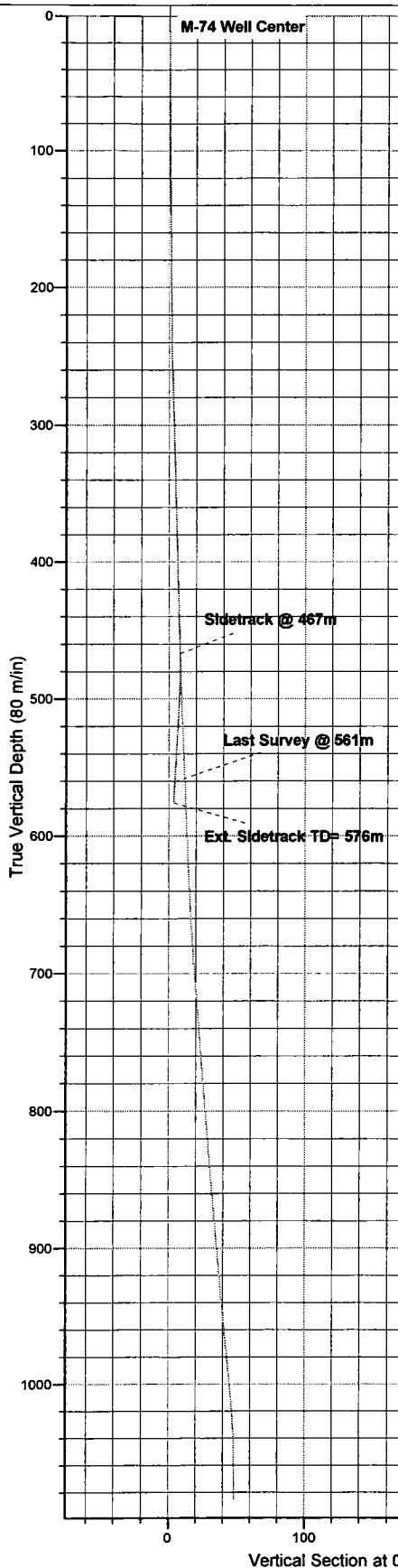
Reference Details - WELL CENTRE

Geodetic System: Universal Transverse Mercator
Ellipsoid: GRS 1980
Zone: Zone 11N (120 W to 114 W)
Northing: 6658903.49
Easting: 472216.67
Latitude: 60° 3' 58.800 N
Longitude: 117° 29' 56.800 W
Grid Convergence: 0.43° East
Ground Elevation: 777.93
KB Elevation: Actual KB @ 782.13m (Precision 436)



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↑ Azimuths to True North
Magnetic North: 19.95°
Magnetic Field
Strength: 58769.5nT
Dip Angle: 79.22°
Date: 2/3/2010
Model: IGRF2010

ANNOTATIONS

TVD	MD	Annotation
466.86	467.00	Sidetrack @ 467m
560.33	560.64	Last Survey @ 561m
575.64	576.00	Ext. Sidetrack TD= 576m



Company:	Paramount Resources Ltd.	Local Co-ordinate Reference:	Well M-74
Project:	Cameron	TVD Reference:	Actual KB @ 782.13m (Precision 436)
Site:	Para et al Cameron M-74	MD Reference:	Actual KB @ 782.13m (Precision 436)
Well:	M-74	North Reference:	True
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack Final	Database:	EDM 2003.21 DB

Project	Cameron		
Map System:	Universal Transverse Mercator	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 11N (120 W to 114 W)		Using geodetic scale factor

Site	Para et al Cameron M-74		
Site Position:		Northing:	6,658,903.49 m
From:	Lat/Long	Easting:	472,216.67 m
Position Uncertainty:	0.00 m	Slot Radius:	mm
		Latitude:	60° 3' 58.800 N
		Longitude:	117° 29' 56.800 W
		Grid Convergence:	-0.43 °

Well	M-74		
Well Position	+N/-S	0.00 m	Northing: 6,658,903.49 m
	+E/-W	0.00 m	Easting: 472,216.67 m
Position Uncertainty	0.00 m	Wellhead Elevation:	m
		Latitude:	60° 3' 58.800 N
		Longitude:	117° 29' 56.800 W
		Ground Level:	777.93 m

Wellbore	Sidetrack				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/3/2010	19.95	79.22	58,770

Design	Sidetrack Final			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (m)	+N/-S (m)	+E/-W (m)	Direction (°)
	0.00	0.00	0.00	0.00

Survey Program	Date	5/31/2010		
From (m)	To (m)	Survey (Wellbore)	Tool Name	Description
11.00	576.00	Sidetrack Final (Sidetrack)	MWD	MWD - Standard

Survey										
MD (m)	Inc (°)	Azi (°)	TVD (m)	SS (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
0.00	0.00	0.00	0.00	782.13	0.00	0.00	0.00	0.00	0.00	0.00
11.00	0.50	34.10	11.00	771.13	0.04	0.03	0.04	1.36	1.36	0.00
91.00	0.50	34.10	91.00	691.13	0.62	0.42	0.62	0.00	0.00	0.00
122.00	0.25	34.10	122.00	660.13	0.79	0.53	0.79	0.24	-0.24	0.00
147.00	1.00	34.10	146.99	635.14	1.01	0.68	1.01	0.90	0.90	0.00
175.00	1.00	34.10	174.99	607.14	1.42	0.96	1.42	0.00	0.00	0.00
203.00	0.50	34.10	202.99	579.14	1.72	1.16	1.72	0.54	-0.54	0.00
231.00	0.50	34.10	230.99	551.14	1.92	1.30	1.92	0.00	0.00	0.00
260.00	2.00	34.10	259.98	522.15	2.45	1.66	2.45	1.55	1.55	0.00
298.00	2.00	34.10	297.96	484.17	3.54	2.40	3.54	0.00	0.00	0.00
327.00	1.50	34.10	326.94	455.19	4.28	2.90	4.28	0.52	-0.52	0.00
346.00	2.00	34.10	345.93	436.20	4.76	3.22	4.76	0.79	0.79	0.00
389.60	1.60	34.10	389.51	392.62	5.89	3.99	5.89	0.28	-0.28	0.00



Company:	Paramount Resources Ltd.	Local Co-ordinate Reference:	Well M-74
Project:	Cameron	TVD Reference:	Actual KB @ 782.13m (Precision 436)
Site:	Para et al Cameron M-74	MD Reference:	Actual KB @ 782.13m (Precision 436)
Well:	M-74	North Reference:	True
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack Final	Database:	EDM 2003.21 DB

Survey

MD (m)	Inc (°)	Azi (°)	TVD (m)	SS (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
446.72	2.30	33.80	446.60	335.53	7.50	5.07	7.50	0.37	0.37	-0.16
456.24	2.50	34.50	456.11	326.02	7.83	5.30	7.83	0.64	0.63	2.21
465.75	1.80	40.40	465.61	316.52	8.12	5.51	8.12	2.31	-2.21	18.61
Sidetrack @ 467m										
467.00	1.47	36.02	466.86	315.27	8.15	5.53	8.15	8.50	-7.96	-105.02
475.10	1.10	270.00	474.96	307.17	8.23	5.52	8.23	8.50	-1.36	-466.76
484.63	2.30	245.40	484.49	297.64	8.15	5.25	8.15	4.34	3.78	-77.44
494.16	3.00	216.60	494.01	288.12	7.87	4.93	7.87	4.66	2.20	-90.66
503.68	3.30	215.50	503.51	278.62	7.45	4.62	7.45	0.96	0.95	-3.47
513.17	3.50	212.70	512.99	269.14	6.98	4.31	6.98	0.82	0.63	-8.85
522.65	3.70	213.40	522.45	259.68	6.48	3.98	6.48	0.65	0.63	2.22
532.16	3.70	214.80	531.94	250.19	5.98	3.64	5.98	0.28	0.00	4.42
541.64	4.60	222.90	541.39	240.74	5.45	3.20	5.45	3.39	2.85	25.63
551.13	4.80	223.30	550.85	231.28	4.88	2.67	4.88	0.64	0.63	1.26
Last Survey @ 561m										
560.64	4.80	223.30	560.33	221.80	4.30	2.13	4.30	0.00	0.00	0.00
Ext. Sidetrack TD= 576m										
576.00	3.80	220.00	575.64	206.49	3.44	1.36	3.44	2.01	-1.95	-6.45

Survey Annotations

MD (m)	TVD (m)	Local Coordinates		Comment
		+N/-S (m)	+E/-W (m)	
467.00	466.86	8.15	5.53	Sidetrack @ 467m
560.64	560.33	4.30	2.13	Last Survey @ 561m
576.00	575.64	3.44	1.36	Ext. Sidetrack TD= 576m

Checked By: _____ Approved By: _____ Date: _____



DEPARTURE
ENERGY SERVICES INC.

Paramount Resources Ltd.

Cameron

Para et al Cameron M-74

M-74

300M 74 601011 7150

Sidetrack

Survey: Sidetrack Final

Survey Report - Geographic

31 May, 2010





Departure Energy Services
Survey Report - Geographic



Company:	Paramount Resources Ltd.	Local Co-ordinate Reference:	Well M-74
Project:	Cameron	TVD Reference:	Actual KB @ 782.13m (Precision 436)
Site:	Para et al Cameron M-74	MD Reference:	Actual KB @ 782.13m (Precision 436)
Well:	M-74	North Reference:	True
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack Final	Database:	EDM 2003.21 DB

Project	Cameron		
Map System:	Universal Transverse Mercator	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 11N (120 W to 114 W)		Using geodetic scale factor

Site	Para et al Cameron M-74				
Site Position:		Northing:	6,658,903.49 m	Latitude:	60° 3' 58.800 N
From:	Lat/Long	Easting:	472,216.67 m	Longitude:	117° 29' 56.800 W
Position Uncertainty:	0.00 m	Slot Radius:	mm	Grid Convergence:	-0.43 °

Well	M-74					
Well Position	+N/-S	0.00 m	Northing:	6,658,903.49 m	Latitude:	60° 3' 58.800 N
	+E/-W	0.00 m	Easting:	472,216.67 m	Longitude:	117° 29' 56.800 W
Position Uncertainty		0.00 m	Wellhead Elevation:	m	Ground Level:	777.93 m

Wellbore	Sidetrack				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/3/2010	19.95	79.22	58,770

Design	Sidetrack Final			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (m)	+N/-S (m)	+E/-W (m)	Direction (°)
	0.00	0.00	0.00	0.00

Survey Program		Date	5/31/2010		
From (m)	To (m)	Survey (Wellbore)	Tool Name	Description	
11.00	576.00	Sidetrack Final (Sidetrack)	MWD	MWD - Standard	



Departure Energy Services Survey Report - Geographic



Company:	Paramount Resources Ltd.	Local Co-ordinate Reference:	Well M-74
Project:	Cameron	TVD Reference:	Actual KB @ 782.13m (Precision 436)
Site:	Para et al Cameron M-74	MD Reference:	Actual KB @ 782.13m (Precision 436)
Well:	M-74	North Reference:	True
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack Final	Database:	EDM 2003.21 DB

Survey

Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Map Northing (m)	Map Easting (m)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	6,658,903.49	472,216.67	60° 3' 58.800 N	117° 29' 56.800 W
11.00	0.50	34.10	11.00	0.04	0.03	6,658,903.53	472,216.69	60° 3' 58.801 N	117° 29' 56.798 W
91.00	0.50	34.10	91.00	0.62	0.42	6,658,904.10	472,217.09	60° 3' 58.820 N	117° 29' 56.773 W
122.00	0.25	34.10	122.00	0.79	0.53	6,658,904.27	472,217.20	60° 3' 58.825 N	117° 29' 56.766 W
147.00	1.00	34.10	146.99	1.01	0.68	6,658,904.50	472,217.36	60° 3' 58.833 N	117° 29' 56.756 W
175.00	1.00	34.10	174.99	1.42	0.96	6,658,904.90	472,217.63	60° 3' 58.846 N	117° 29' 56.738 W
203.00	0.50	34.10	202.99	1.72	1.16	6,658,905.20	472,217.84	60° 3' 58.856 N	117° 29' 56.725 W
231.00	0.50	34.10	230.99	1.92	1.30	6,658,905.40	472,217.98	60° 3' 58.862 N	117° 29' 56.716 W
260.00	2.00	34.10	259.98	2.45	1.66	6,658,905.92	472,218.34	60° 3' 58.879 N	117° 29' 56.693 W
298.00	2.00	34.10	297.96	3.54	2.40	6,658,907.01	472,219.09	60° 3' 58.915 N	117° 29' 56.645 W
327.00	1.50	34.10	326.94	4.28	2.90	6,658,907.74	472,219.59	60° 3' 58.938 N	117° 29' 56.613 W
346.00	2.00	34.10	345.93	4.76	3.22	6,658,908.22	472,219.92	60° 3' 58.954 N	117° 29' 56.592 W
389.60	1.60	34.10	389.51	5.89	3.99	6,658,909.35	472,220.70	60° 3' 58.990 N	117° 29' 56.542 W
446.72	2.30	33.80	446.60	7.50	5.07	6,658,910.95	472,221.79	60° 3' 59.042 N	117° 29' 56.472 W
456.24	2.50	34.50	456.11	7.83	5.30	6,658,911.28	472,222.02	60° 3' 59.053 N	117° 29' 56.458 W
465.75	1.80	40.40	465.61	8.12	5.51	6,658,911.56	472,222.24	60° 3' 59.062 N	117° 29' 56.444 W
467.00	1.47	36.02	466.86	8.15	5.53	6,658,911.59	472,222.26	60° 3' 59.063 N	117° 29' 56.442 W
Sidetrack @ 467m									
475.10	1.10	270.00	474.96	8.23	5.52	6,658,911.68	472,222.24	60° 3' 59.066 N	117° 29' 56.443 W
484.63	2.30	245.40	484.49	8.15	5.25	6,658,911.60	472,221.98	60° 3' 59.063 N	117° 29' 56.460 W
494.16	3.00	216.60	494.01	7.87	4.93	6,658,911.32	472,221.65	60° 3' 59.054 N	117° 29' 56.481 W
503.68	3.30	215.50	503.51	7.45	4.62	6,658,910.90	472,221.34	60° 3' 59.041 N	117° 29' 56.501 W
513.17	3.50	212.70	512.99	6.98	4.31	6,658,910.44	472,221.02	60° 3' 59.026 N	117° 29' 56.522 W
522.65	3.70	213.40	522.45	6.48	3.98	6,658,909.94	472,220.69	60° 3' 59.009 N	117° 29' 56.543 W
532.16	3.70	214.80	531.94	5.98	3.64	6,658,909.44	472,220.35	60° 3' 58.993 N	117° 29' 56.565 W
541.64	4.60	222.90	541.39	5.45	3.20	6,658,908.91	472,219.91	60° 3' 58.976 N	117° 29' 56.593 W
551.13	4.80	223.30	550.85	4.88	2.67	6,658,908.35	472,219.37	60° 3' 58.958 N	117° 29' 56.627 W
560.64	4.80	223.30	560.33	4.30	2.13	6,658,907.77	472,218.82	60° 3' 58.939 N	117° 29' 56.662 W
Last Survey @ 561m									
576.00	3.80	220.00	575.64	3.44	1.36	6,658,906.92	472,218.05	60° 3' 58.911 N	117° 29' 56.712 W
Ext. Sidetrack TD= 576m									

Survey Annotations

Measured Depth (m)	Vertical Depth (m)	Local Coordinates		Comment
		+N/-S (m)	+E/-W (m)	
467.00	466.86	8.15	5.53	Sidetrack @ 467m
560.64	560.33	4.30	2.13	Last Survey @ 561m
576.00	575.64	3.44	1.36	Ext. Sidetrack TD= 576m

Checked By: _____ Approved By: _____ Date: _____

