

N E B COPY

NATIONAL ENERGY BOARD
Exploration and Production

JUN 28 2010

FINAL WELL REPORT
PARAMOUNT RESOURCES LTD.

PARA ET AL CAMERON F-77

Grid: 60° 10' 117° 15'

WID 2065

UWI 300F776010117150

DATE: June 16, 2010

COMPANY REPRESENTATIVE:
Dick Heenan, P. Eng.

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A. INTRODUCTION

Executive Summary

Paramount Resources Ltd. (Paramount) drilled Para et al Cameron F-77 as 1422 meter vertical well. The well was spudded 20100206 01:00 and the drilling rig was released on 20100215 08:00. The purpose of the well was to evaluate hydrocarbon potential. The primary target was the Sulphur Point Dolomite formation with a secondary target in the Slave Point formation.

The drilling contractor was Precision's Rig #254.

The well was drilled on Production License No PL-019.

A cellar and conductor were pre-installed, and a diverter system was employed during the drilling of surface hole to 380 mKB. Other than minor losses @ 152-172m and , there were no significant drilling events on surface hole. A string of 219 mm surface casing was run to and cemented.

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

The float collar and shoe were drilled out. No leak off test was performed as per waiver received 20091217 from the Chief Conservation Officer of the National Energy Board. A 200 mm hole was drilled with a flocculated water system to below the Wabamun and then mudded up. No significant losses were encountered. Five hours circulating and a wiper trip were needed to clean the hole @ TD. The well drilled to TD without any other significant incidents.

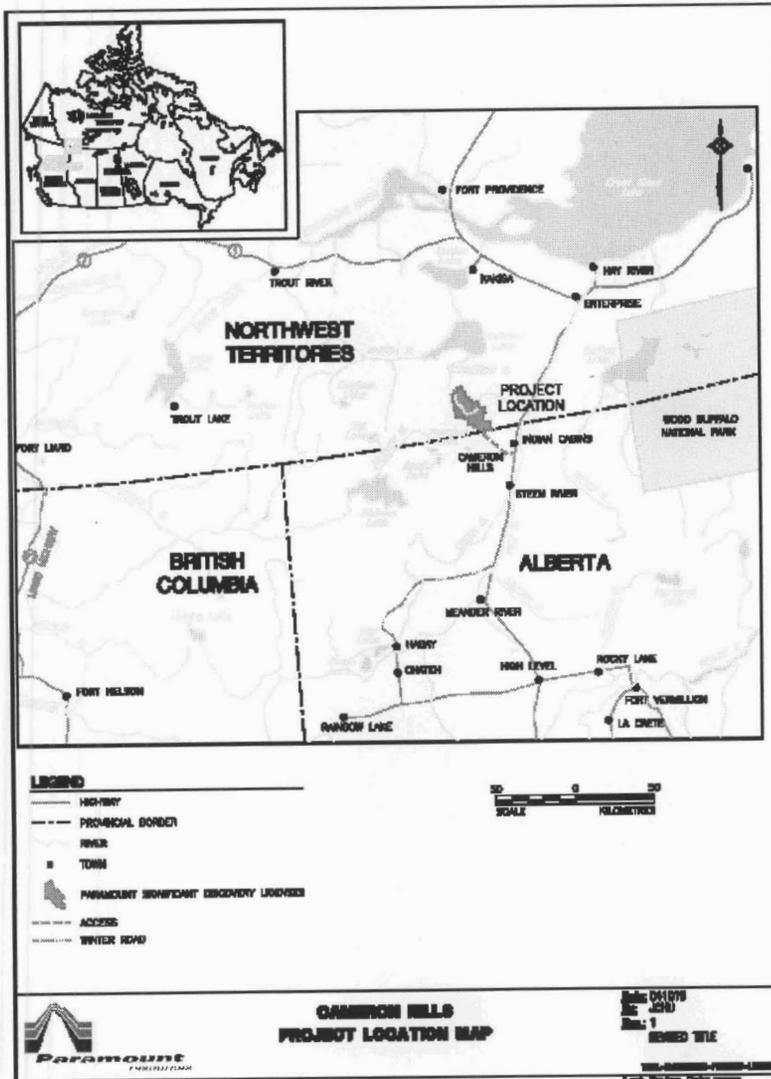
Weatherford Wireline ran induction, density, dipole sonic, and micro-resistivity logs from bottom to surface casing. (1.5m fill was encountered on wiper trip – loggers tagged 11m fill).

Production casing (139.7 mm) was run and set and cemented at 1417 mMD.

Completions Summary

The well was perforated in Sulphur Pt. The zone proved extremely tight, and the fluid that was produced was essentially all water. The tubing was removed, and the well suspended with bridge plug and 30 meters of cement. The wellhead was left in place.

Locality Map – Cameron Hills NWT



B. GENERAL DATA

1. Well Name: Para et al Cameron F-77
Well Identification Number (WID): 2065
Production License: PL-019
Location Unit: F
Section: 77
Grid Area: 60° 10' 117° 15'
Classification: Delineation
2. Surface Coordinates:
Latitude: 60° 06' 23.3"
Longitude: 117° 29' 4.7"
3. Unique Well Identifier: 300F776010117150
4. Operator: Paramount Resources Ltd.
5. Contractor: Precision Drilling
6. Drilling Unit: Precision Rig # 245,
(conventional mechanical double land rig rated for 2000 m)
Mud system capacity of 66 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:
No significant difficulties or delays.
11. Total Well Cost:
Drilling \$1,040,000
Completion \$ 180,000

12.

Bottom Hole Co-ordinates:

Assumed as vertical well

Latitude: $60^{\circ} 06' 23.3''$

Longitude: $117^{\circ} 29' 4.7''$

C. SUMMARY OF DRILLING OPERATIONS

1. Elevations:
 - Ground: 722.0 m above sea level (final "as built" survey)
 - KB: 726.6 m above sea level
 - KB to Casing Flange: 4.6 m
2. Total Depth: 1421.6 mMD
3. Date and Hour Spudded: 20100206 01:00
4. Date of Rig Release: 20100215 08:00
5. Well status: Cased and Suspended
6. Hole Sizes and Depths:
 - Conductor Hole: 610 mm to 24.4 m
 - (Formations in conductor) 0 – 1.2 mGL – snow
 - 1.2 – 24.4 mGL - solid clay & rock – no water
 - Permafrost reported to 10.7m
 - Surface Hole: 311 mm to 379 mKB
 - Main Hole: 200 mm to 1421 mMD
7. Casing and Cementing Record:
 - Conductor Hole:
 - Casing Size: 406 mm
 - Depth Set: 24.8 m
 - Cement Volume: 100 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: 379 mKB
 - Cement Volume: 33 Tonnes
 - Cement Type: Class 'G'
 - Additives: 1.5% CaCl₂
 - Celloflake
 - Cement Returns: 5m³ to surface
 - Bumped Plug: 7MPa
 - Main Hole:
 - Casing Size: 139 mm
 - Casing Weight: 20.8 kg/m
 - Casing Grade: J-55
 - Thread: ST&C

Depth Set: 1417 mMD
 Plug Back Depth: 1403 mMD
 Cement Volume 1: 23.9 Tonnes
 Cement Type 1: Thixlite
 Additives 1: 0.04% LTR
 Cement Volume 2: 8 Tonnes
 Cement Type 2: Expandomix LWL
 Additives 2: 0.15% CFL-3 + 0.3% LTR.
 Cement Returns: 0.5m3
 Bumped Plug: 15.5 MPa

8. Sidetracked Hole: No

9. Drilling Fluid: See detailed mud reports in appendix

Conductor Hole: Dry drilled (auger)

Surface Hole: Shure Shale/PHPA

Properties: Viscosity: 33-40 sec/L
 Weight: 1050 - 1060 kg/m³
 PH: 8.0

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

Main (379– 1000 m): Floc water

Properties: Viscosity: 28-58 sec/L
 Weight: 1000 - 1450 kg/m³
 PH: 8.0 - 10

Remarks: No lost circulation in Wabamun

Main (1000 m – TD): Shure Shale/PHPA

Properties: Viscosity: 32 - 37 sec/L
 Weight: 1040 - 1050 kg/m³
 PH: 9.0 – 10.5

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:	39.0	12.5
2	Drill	98.2	31.5
3	Ream	0	0
4			
5	Circulate and condition mud:	14.0	4.5
6	Trip	30.2	9.7
7	Rig Service	6	1.9
8	Repair Rig	0	0.0
9	Slip & cut line	1.8	0.6
10	Survey	6.8	2.2
11	Wireline logs	9.2	2.9
12	Casing & Cement	13.5	4.3
13	WOC	5.8	1.8
14	Nipple up	13.2	4.2
15	Test BOP	7.5	2.4
16	Drillstem Test		
17			
18	Squeeze Cement	0	0
19			
20	Directional Work	0	0
21	Safety Meeting	11.0	3.5
22	Tear out	21.5	6.9
23	Wait on (other than cement)	0	0
24			
25	Other (diverter install, W/O license, etc)	34.2	11.0

14. Deviation Survey: Vertical Well

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 30 meters of cement

Completion Operations

- Moved in & rigged up Concord 41 service rig, test equipment & flare stack on 20100228
- Displaced well to fresh water with 3% KCL (used as completion fluid)
- Cement bond log – cement top @ surface – good bond throughout
- Perforated with wireline guns – underbalanced (negligible pressure response)
Sulphur Pt Dolomite 1366-1370 mKB
- Swab & evaluate – negligible fluid (0.84 m³ – 15% oil) – fluid subsequently turned to 100% water
- Pull 73mm tubing
- Suspend well with bridge plug set @ 1361mKB and topped with 30m cement
- Released completion rig 201003204

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

D: GEOLOGY

Formation Tops

FORMATION	PROGNOSIS TOPS		SAMPLE/LOG TOPS		COMMENTS
	m TVD	m SubSea	m TVD	m SubSea	
MSL-RKB: 725.92m					m Isopach
Wabamun FM	498.92	228.00	495.50	230.42	169.00
Jean Marie Mbr	655.92	70.00	664.50	61.42	6.00
Fort Simpson Fm	662.92	63.00	670.50	55.42	110.00
Twin Falls Fm	780.92	-55.00	780.50	-54.58	159.00
Hay River Fm	941.92	-216.00	939.50	-213.58	333.00
Beaverhill Lake Fm	1275.92	-550.00	1272.5	-546.58	23.00
Slave Point Fm	1297.92	-572.00	1295.5	-569.58	41.00
F4 Marker Fm	1338.92	-613.00	1336.5	-610.58	10.00
Watt Mountain Fm	1346.92	-621.00	1346.0	-620.08	4.50
Sulphur Pt Ls Fm	1351.92	-626.00	1350.5	-624.58	9.50
Sulphur Pt Dol	1361.92	-636.00	1359.5	-633.58	11.50
Muskeg Fm	1373.92	-648.00	1371.0	-645.08	49.00
Total Depth	1393.92	-668.00	1420.0	-694.08	-

(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: 378 - 1408 mMD
 Spectral Density Compensated Neutron Log: 0 - 1389 mMD
 Dipole Sonic Log: 378 - 1396 mMD
 Micro-Resistivity Log: 1250 - 1377 mMD

COMPLETION AND TESTING DATA

The following are found in the appendices
(to the extent that they were obtained/performed on this well)
Swab 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 (early February), temperatures ranged from -8C to -20C. Conditions were generally clear and calm. During completions (early March) temperatures were warmer (-5 - -10C), but the longer hours of daylight softened the roads and road travel was limited to night time.

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. There was one reportable spill (10-038).

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 'B' 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.

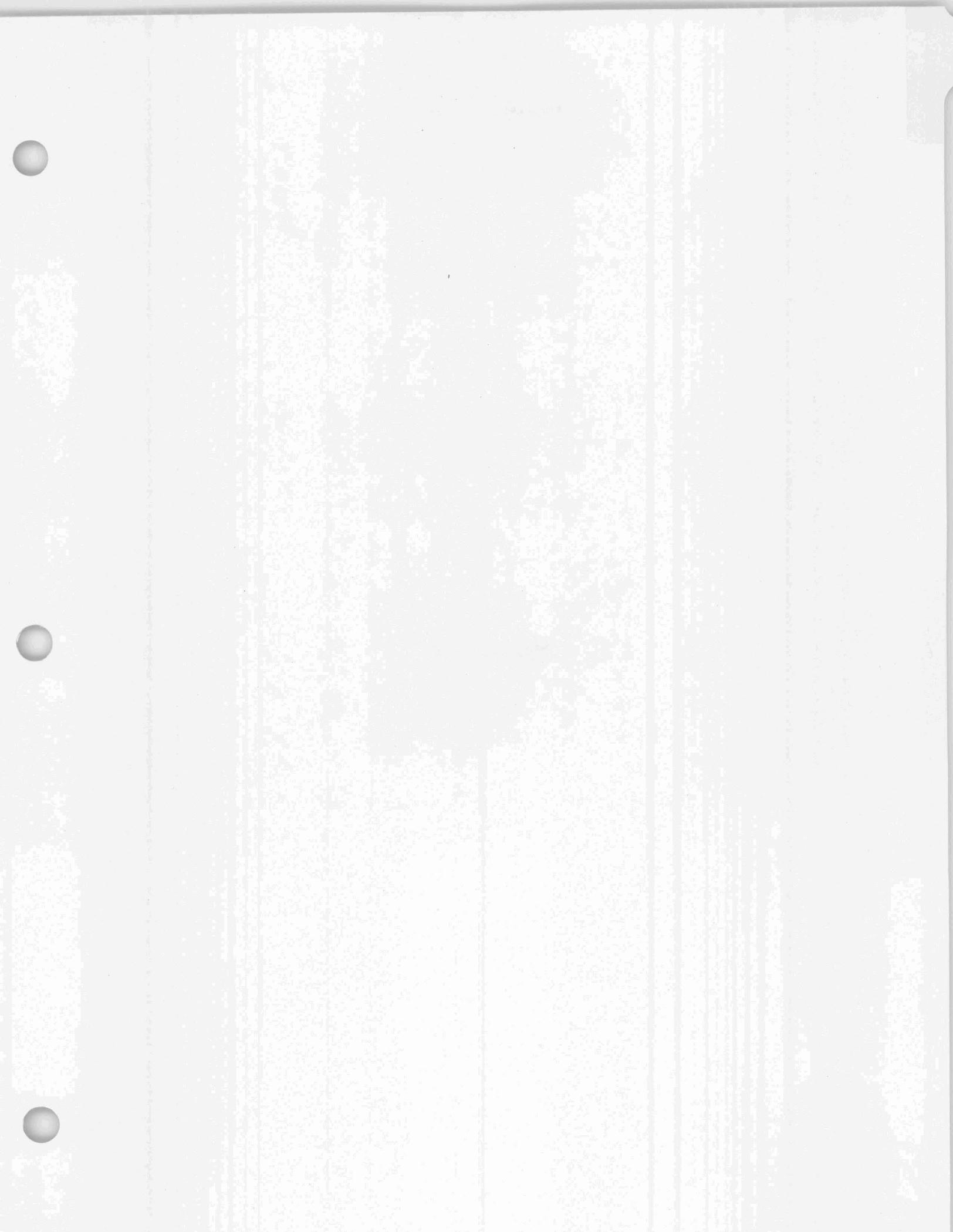
Solid waste was segregated, stored in covered bins, hauled to Ft Nelson by a waste handling and recycling company.

SPILLS

There was one reportable spill (10-038) on the drilling location consisting of 0.25 m³ drilling mud. This spill occurred when a vacuum hose contacted a valve and accidentally opened it. Most of the mud was sucked up immediately with a vacuum truck. Remaining material was scraped up when the rig was moved. Mud along with contaminated snow was stored in the steel "shale bin" and was reprocess into the mud system on the next well.

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
9. Paramount Daily Reports (completion)
10. Tour Sheets (completion)
11. Swab Reports







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: AI 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 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.

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, directly 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

8. Cancellation or Rescheduling of Orders

- 8.1 Purchaser's orders, once placed and accepted, may be canceled only with VGC's written consent and upon terms which will save VGC from loss. No products may be returned for credit, warranty claim or adjustment without the written consent of authorized VGC employees.
- 8.2 VGC may, but is not obligated to, accept a written request by Purchaser to delay shipment of the products. If rescheduling is accepted by VGC, Purchaser shall pay any additional costs incurred by the delay and the price for the balance of the order shall be adjusted to reflect prices and costs in effect at time of actual shipment.

9. Taxes, Licenses or Other Charges

- 9.1 All taxes or other charges imposed by law on the sale or production of goods or the performance of services under this Agreement, including, but not limited to, those from all governmental authorities, as well as all foreign taxes, surcharges, duties, assessments or charges, if any, shall be borne by the Purchaser, unless the law specifically provides that such payment must be borne by VGC. Purchaser shall pay for and hold VGC harmless from all such governmental charges.
- 9.2 Purchaser shall, at its own expense, obtain all licenses, permissions or authorizations to use, purchase, export or import the products, as may be required by any governmental authority.

10. Services

Upon the request of the Purchaser, VGC will provide appropriate services and/or technical information, as available, regarding the products and their uses, and will use reasonable efforts to provide personnel to assist the Purchaser in effecting field installations. The Purchaser acknowledges that any such information, service or assistance so provided, whether with or without charge, shall be in an advisory capacity only. The Purchaser further agrees that VGC assumes no liability for any damage or loss at any location arising out of, resulting from or caused, in whole or in part, by any information, service, advice or assistance provided by VGC, its agents, assigns, employees or subcontractors.

11. Packaging/Insurance

- 11.1 When obligated to do so in the specifications, VGC shall attempt to pack and prepare all shipments in such a manner as to prevent breakage, rust or deterioration in transit. VGC does not, however, guarantee against such damage and the risk of any damage to the products in transit shall be borne by the Purchaser at all times.
- 11.2 Unless requested by the Purchaser and agreed to in writing by VGC, no shipments are insured by VGC against damage or loss in transit and VGC assumes no liability whatsoever in regard to the obtaining of such insurance.

12. Changes and Modifications in Design

VGC hereby reserves the right to change or modify the specification and construction of any of its products without incurring any obligation to furnish or install such changes or modifications on products previously or subsequently sold.

13. Patent Warranties

The Purchaser acknowledges that VGC does not warrant that any of the materials, equipment or apparatus sold by it, if used or sold in combination with any other equipment, or used in Purchaser's methods or processes, will not, by virtue of such combination or use, infringe patents of others, and VGC shall not be liable for any patent infringement arising from or by reason of any such use or sale. On any item sold by VGC, 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, 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

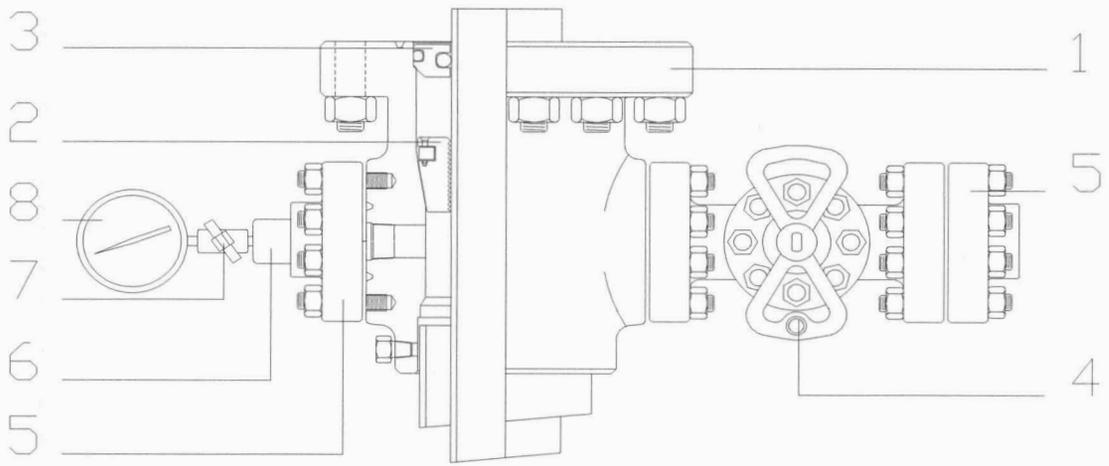
The procurement of consular fees for legalizing invoices, stamping Bills of Lading or other such documents and declarations required by the law of any country or destination, are not included in quotations or selling prices. Although it is not VGC's policy to make such arrangements, if instructed by 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

Item	Qty	Part No	Description	Unit Price	Total
			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, VGOF-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		STUDDED 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

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

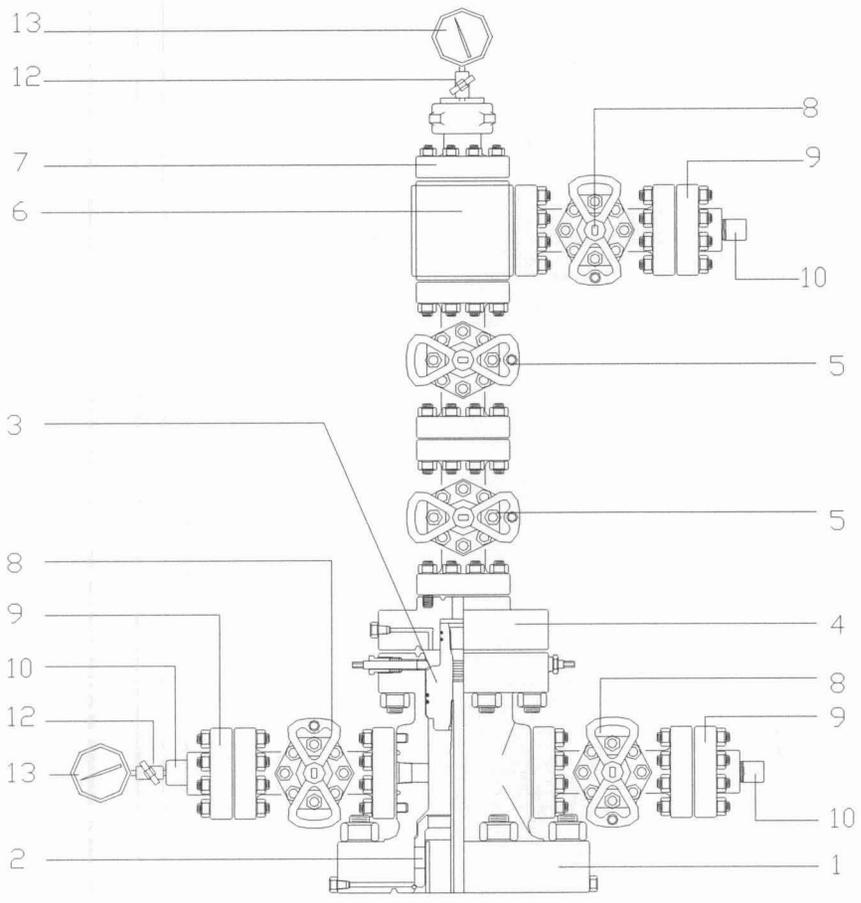
Item	Qty	Part No	Description	Unit Price	Total

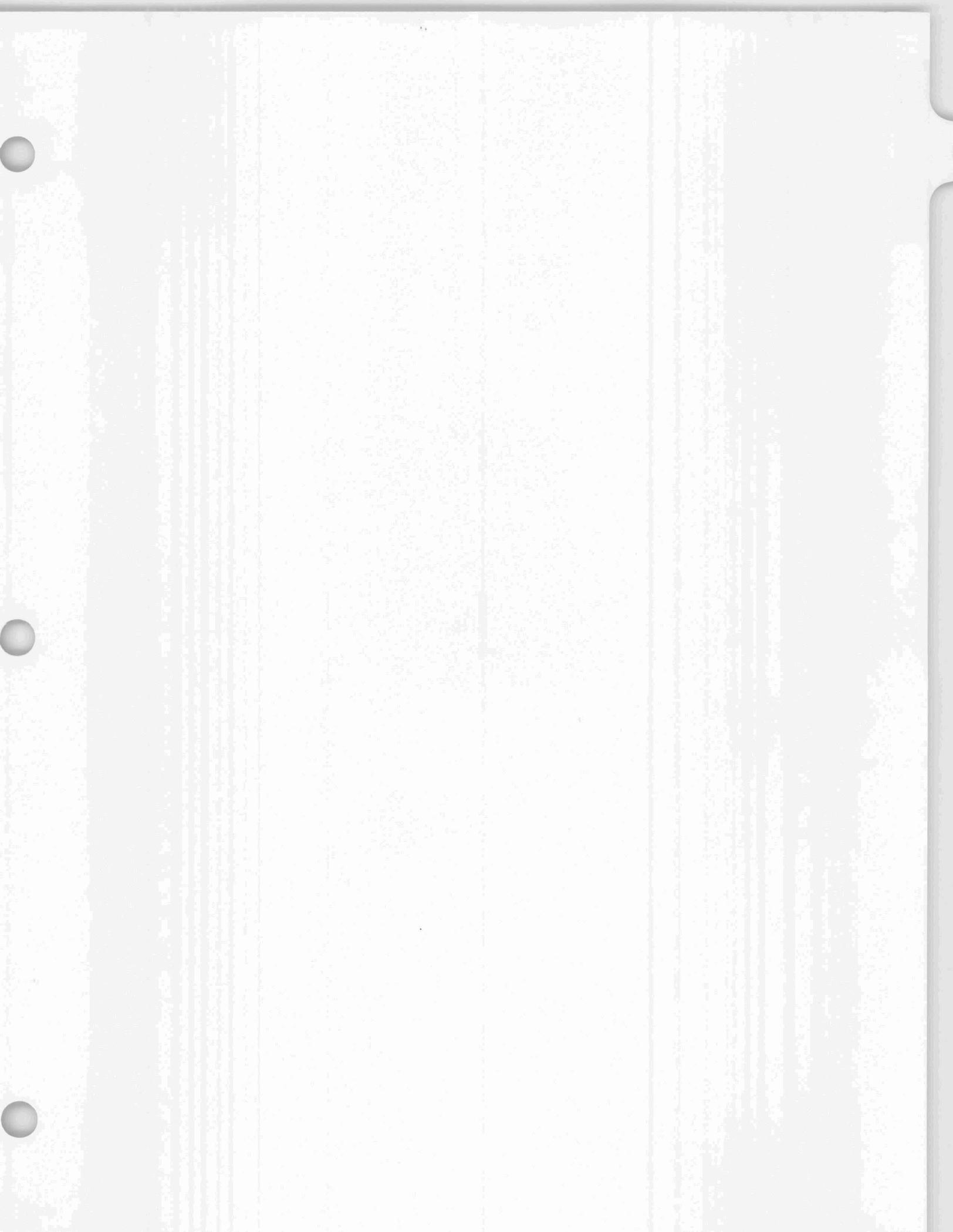
**Remanufactured wellhead equipment carries full warranty and is subject to prior sale

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 borings 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.





WELL SUMMARY

OPERATOR : *PARAMOUNT RESOURCES LTD.*
WELL NAME : *PARA ET AL CAMERON F-77*
UWI : *300-F77-6010-117150*
WELL LICENSE : *1221*
AFE : *09NO10009*
FIELD : *Cameron Hills*
SURFACE LOCATION : *Unit: F Section: 77*
Grid Area: 60° 10' N 117° 15' W
SURFACE COORDINATES : *Latitude: 60° 06' 29.3"N*
Longitude: 117° 29' 4.7" W
DRILLING RIG : *Precision Drilling Rig# 245*
DRILLING CONTRACTOR : *Precision Drilling.*
WELL TYPE : *Vertical Development Well*
RKB - MSL : *725.92m*
MSL - GL : *721.17m*
SPUD DATE : *February 06, 2010.*
DATE TD REACHED : *February 12, 2010.*
DATE RIG RELEASED : *February 17, 2010.*
TD DEPTH : *1420.0m MBRT (-694.08m SS)*
TD COORDINATES : *Latitude: 60° 06' 29.3"N*
Longitude: 117° 29' 4.7" W
HOLE SIZE : *311.0mm 379.0m RKB*
200.0mm 1420.0m RKB.
SAMPLE INTERVALS : *740m to 980m @ 5m Intervals 1 Set.*
1225m - TD @ 5m Intervals 2 Sets.
1225m - TD Unwashed Spl 1 Set.
DRILLING FLUID : *Surface Hole: Polymer*
Main Hole: Floc Water & Polymer.
WELL STATUS : *Cased for Production Testing.*
STRIKE AREA : *South Great Slave Lake*
REGION : *NWT Mainland*



Photo 1: Precision Rig# 245 on Para Et Al Cameron F-77 Location.

WELL ABSTRACT

The **Para Et al Cameron F-77** well is located in Unit F, Section 77 and Grid 60° 10' 00" N and 117° 15' 00" W at the surface co-ordinates of 60° 06' 29.3" N and 117° 29' 04.7" W of Cameron Hills in the Northwest Territory.

The proposed **Cameron F-77** development well is a part of an extensive drilling program. The well is proposed to drill vertically as a new delineation well. Paramount Resources Ltd. retained the services of **Precision Drilling Rig# 245**.

The primary objective is to penetrate the prognosticated heavy hydrocarbon bearing zones in the limestone and dolomite sections of the **Sulphur Point** formation. The Secondary target is to investigate the prospective and possibilities of commercial hydrocarbon in the **Slave Point** Formation. In addition to the above objectives, the well are to validate the 3D seismic picking of the reservoirs, to specify the time to depth conversion with the seismic data and to learn more about the complex reservoir characteristic of these formations in the **Cameron Hills**.

The well is spudded at 01:00hrs on the February 06, 2010. Drilling of 311mm hole from surface to 379m is completed using one rock Bit# 1RR1 in 29.0 on bottom bit hours. 219.1mm surface casings are run in setting the shoe at 379m and cemented with Sanjel as per program. Polymer mud is used for drilling the surface hole.

Unabated drilling of 200mm main hole reached TD of the well to 1420m RKB (-694.08m SS) in 64.75 on bottom bit hours using one Reed PDC bit. The TD is reached at 18:25 hrs of February 12, 2010. +/- 47m are drilled into the **Muskeg** formation as to have good rat hole for logging and production facilities. At TD section, the hole is circulated clean before POOH. A wiper trip is performed and a Hi-vis pill being pumped before POOH to run in wireline logs. The open hole logging is completed by Weatherford Logging Services. Run# 1: STI/SPeD/CNS/GR/MRT/HBC/CAL tools are run in. A 10m fill is encountered during logging. The production casings 139.7mm are run in and shoe is set at 1468.0m RKB

The Geological target tops and bases of the well, hydrocarbon bearing zones and formations are encountered very much closed to the prognosis. After comprehensive studies of ditch cuttings, gas shows and co-relation with offset wells the formation tops are identified and left unchanged even after posting the

log curves in the Striplog. The geology section in the Strip Log gives a brief representation of the individual stratigraphic formations.

The **Slave Point** Formation is anticipated at 1296.0m RKB (-570.08m SS) and is 40.50m thick. Maximum 331/121 units and 741/121 units formation gases are noticed with positive natural sample fluorescence during drilling this formation.

From ditch cuttings, gas shows and from the quick look interpretation of electrical logs **Slave Point** formation is little tight but possesses all properties of a good reservoir. The **Slave Point** looks to be very prominent from the porosity, gas shows and sample fluorescence showing better reservoir potentialities for commercial production.

The **Sulphur Point** limestone section is identified at 1351.0m RKB (-625.08m SS) and followed by the dolomite section at 1360.0m RKB (-634.08m SS). The dolomite section is 11.0m thick. Maximum 578/69 units formation gas is recorded in the dolomite section with oil shows.

The well is for cased for production testing with viable possibilities of commercial production from the **Slave Point** and the **Sulphur Point** dolomite section. They both possess all the properties for commercial hydrocarbon production. Further evaluation and detail studies are proposed.

FORMATION TOPS

FORMATION	PROGNOSIS TOPS		SAMPLE/LOG TOPS		COMMENTS
	m TVD	m SubSea	m TVD	m SubSea	
MSL - RKB: 725.92m	m TVD	m SubSea	m TVD	m SubSea	m Isopach
Wabamun FM	498.92	228.00	495.50	230.42	169.00
Jean Marie Mbr	655.92	70.00	664.50	61.42	6.00
Fort Simpson Fm	662.92	63.00	670.50	55.42	110.00
Twin Falls Fm	780.92	-55.00	780.50	-54.58	159.00
Hay River Fm	941.92	-216.00	939.50	-213.58	333.00
Beaverhill Lake Fm	1275.92	-550.00	1272.50	-546.58	23.00
Slave Point Fm	1297.92	-572.00	1295.50	-569.58	41.00
F4 Marker Fm	1338.92	-613.00	1336.50	-610.58	10.00
Watt Mountain Fm	1346.92	-621.00	1346.00	-620.08	4.50
Sulphur Pt Ls Fm	1351.92	-626.00	1350.50	-624.58	9.50
Sulphur Pt Dol	1361.92	-636.00	1359.50	-633.58	11.50
Muskeg Fm	1373.92	-648.00	1371.00	-645.08	49.00
Total Depth	1393.92	-668.00	1420.00	-694.08	-

FORMATION EVALUATION

Slave Point Formation
Paleozoic, Middle Devonian
Age: 370 million years
Well: Para Et Al Cameron F-77

The **Middle Devonian, Slave Point Formation** consists of cream, dark brown, light yellowish brown and oil stained limestone interbedded occasionally with lenses of finely crystalline dolomites and intercalated with dark brownish grey shale fragments which possibly occur as thin lenses.

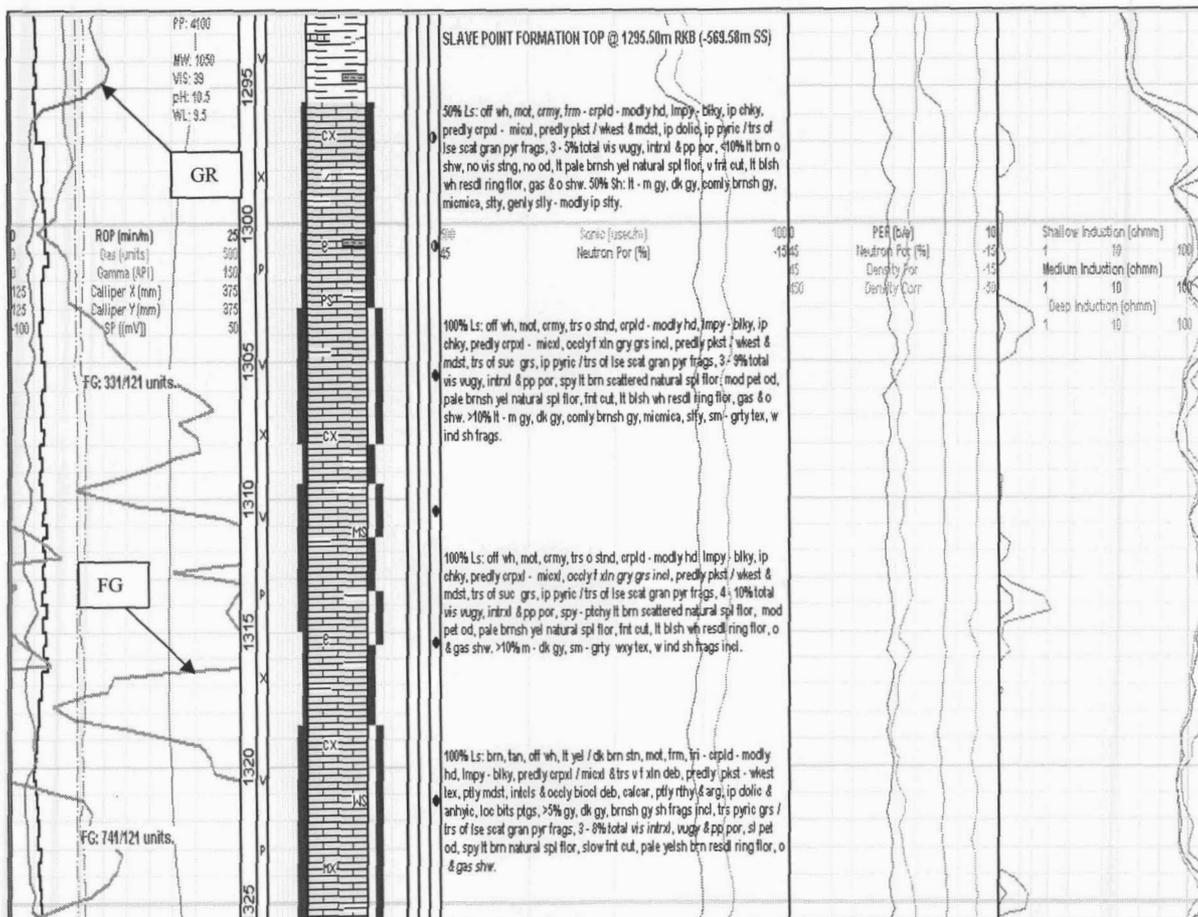


Figure 1: Striplog of the Slave Point Formation.



Ls in Slave Point Fm_1320m RKB.
2/12/2010 11:16:42 AM

Photo 2: Ls in the Slave Point Fm_1320m RKB.

The **Slave Point** formation is picked up and identified at 1296.00m RKB (-570.08m SS). Change of ROP from 26m/hr to an average 20m/hr, from ditch cuttings typical light yellowish brown to dark brown limestone and anticipation of formation gas increase are the main criteria for identifying this formation. The Formation is overlain by the **Upper Devonian** cyclical limy shale beds argillaceous limestone and argillaceous micrities of **Beaverhill Lake** formation picked up at 1273.0m RKB (-547.08m SS), and conformably underlain by **Fort Vermilion** formation encountered at 1336.50m RKB (-610.58m SS).

The **Slave Point** anticipated is 40.5m thick with its typical light yellowish brown to dark brown stains limestone, interbedded with thin shale laminae and often intercalated with thin lenses of fine crystalline dolomites. The top section from 1296.0m to 1303.0m RKB is tighter varying from 3 – 5% porosities and the middle section from 1303m to 1328.5m RKB is more porous varying from 4 - 10% total scattered visible porosities. Vuggy porosities are predominant with partial microfracture, pin point and intercrystalline porosities. In the upper section 331/121 units formation gas are recorded against 1306.50m RKB with positive florescence shows. 741/121 units gas are recorded against 1323.0m RKB with symptoms carrying possibilities of heavy hydrocarbon deposition. The porosity tightens with the increases of the depth and faded to almost 3% due to increase of chalky, earthy, dense argillaceous limestone.

The limestones encountered in the **Slave Point** are off white, mottled, creamy, light yellow with dark brown stain. They are crumpled to moderately hard and predominately blocky with some sub blocky grains. Smooth to gritty very sharp texture resembles to cryptocrystalline group. Partly microcrystalline with a few fine sucrose crystalline grains are noticed. They are predominately wackestone to packstone, intraclasts & occasionally bioclastic debris and partly calcarenite. They are partly earthy & argillaceous, rarely in part dolomitic, Traces of fine crystalline dolomite are commonly noticed all through the section with traces to maximum 10% greenish brown, dark grey shale fragments and siltstone stringers. The lower section is little anhydritic with presence of traces of loose granular anhydrite nodules.

Moderate to strong petroleum odor are noticed all through the section with spotty to patchy light brown natural sample fluorescence, slow faint cut, pale yellowish brown residual ring fluorescence, oil and gas shows. From 1305.0m to 1328.0m RKB possesses good reservoir properties with maximum 10% total scattered visible vuggy, intracrystalline, pin point and micro-fracture porosities.

From the ditch cuttings properties, gas and florescence shows and quick look interpretation of electrical logs the **Slave Point** Formation in the **Cameron F-77** well looks to be very much prospective. Commercial production is possible from this zone. Further studies are recommended.

FORMATION EVALUATION

Sulphur Point Formation
Middle Paleozoic, Devonian
Age: 370 million years
Well: Para Et Al Cameron F-77

The **Paleozoic, Middle Devonian, Sulphur Point** formation conformably separates the overlying from greenish shale of the **Watt Mountain** formation identified at 1345.0m RKB (-619.08m SS) from the underlying anhydritic dolomite and massive, dense anhydrite deposit of the **Muskeg** formations encountered at 1371.0m (-645.08m SS).

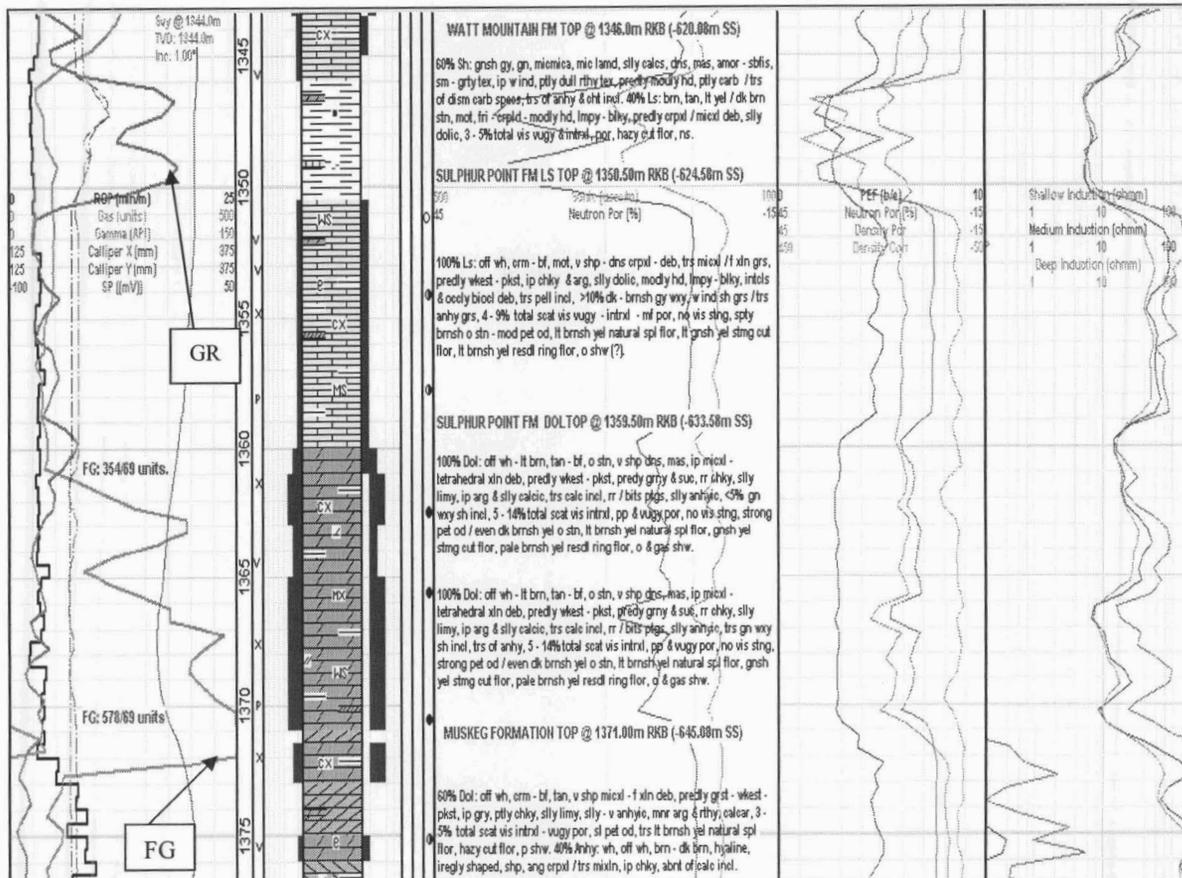


Figure 2: Striplog of the Sulphur Point Formation.



Photo 3: Ls in the Sulphur Point Fm_1355m RKB.



Photo 4: Dol in the Sulphur Point Fm_1367.50m RKB.

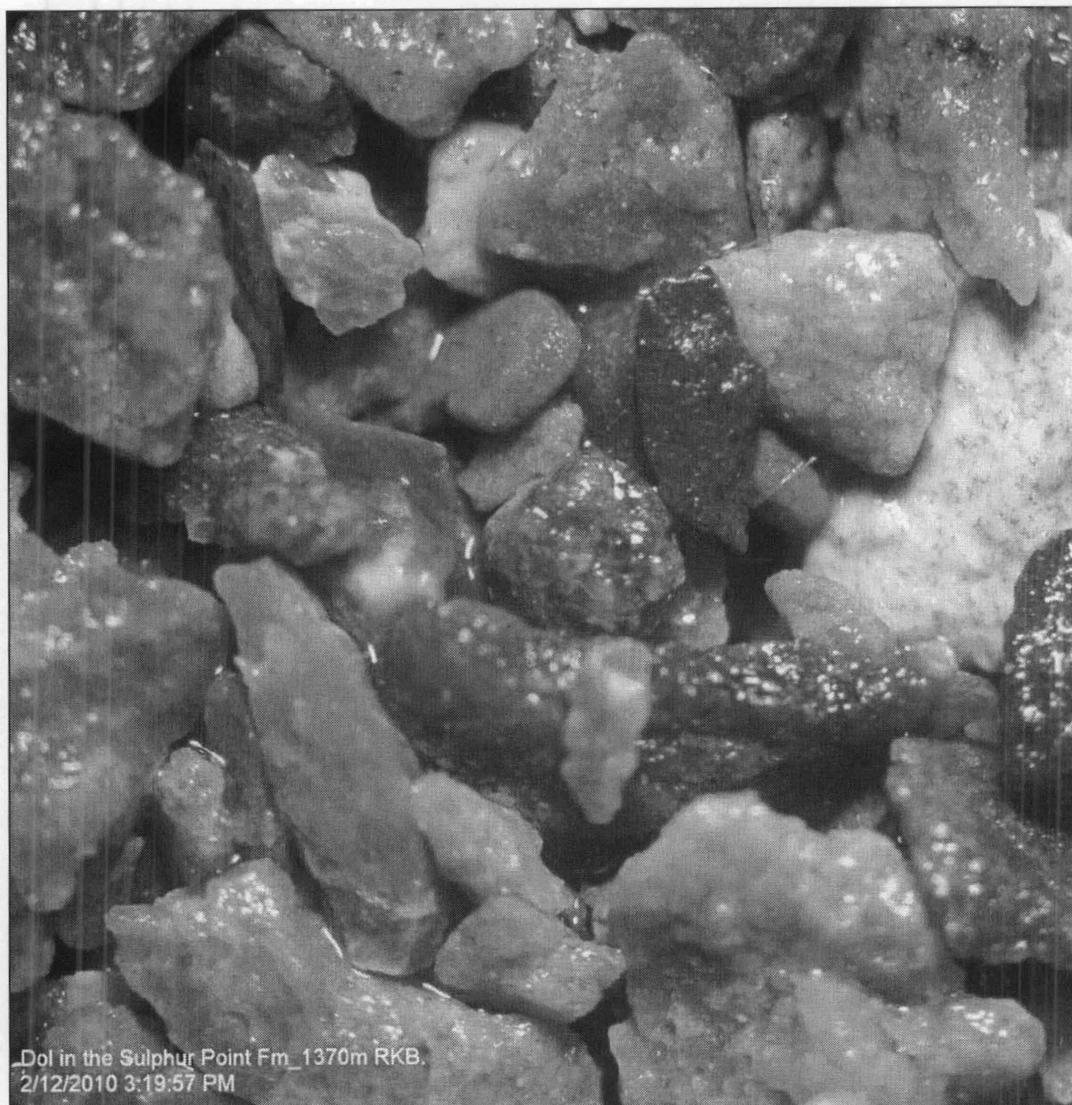


Photo 5: Dol in the Sulphur Point Fm_ 1370m RKB.

The limestone section of the **Sulphur Point** formation is picked up with the end of greenish waxy shaley deposit of the **Watt Mountain** formation. This section is identified from the ROPs, which are comparatively slower and change in drill cuttings. The formation encountered at 1351.0m RKB (-625.08m SS). Co-relation with the offset wells is the other criteria for identifying this formation. The limestone section is 9.0m thick.

The limestones are off white, cream to buff, mottled, color with dark brownish stain. They are generally very sharp to dense cryptocrystalline with some microcrystalline to crystalline debris and crumple to moderately hard, lumpy to blocky. Predominately they are wackestone to packstone texture. They are slightly dolomitic, intraclasts & occasionally bioclastic debris, traces pelletoidal inclusion. They are chalky in parts, slightly earthy and slightly argillaceous. Traces to maximum 10%, greenish to greenish brown waxy shale fragments are anticipated in the limestone section. These shale grains possibly intercalated as thin laminae.

Slight to moderate petroleum odor with scattered to spotty brownish yellow oil staining natural sample fluorescence are noticed. Traces to spotty light brown oil show are noticed in the lower section, light brownish yellow natural sample fluorescence; light greenish yellow streaming cut fluorescence, light brownish yellow residual ring fluorescence, poor shows. Total scattered vuggy, intercrystalline and microfracture porosities varies between 4 – 9%. No high formation gas is encountered in this drilled section.

The dolomitized part of the **Sulphur Point** formation is separated from the overlying of limestone section and underlying **Muskeg** formation. Presence of dolomite is the main criteria of identifying this section. While drilling the ROP are little slower and varied between 3.2min/m to 4.0min/m than in the upper limestone section where ROP varied between 2.6min/m to 3.5min/m. A little faster ROP are noticed in the fine crystalline sucrose porous section. The Dolomite section of the **Sulphur Point** formation is encountered at 1360.0m RKB (-645.0m SS). The section is 11.0m thick overlying on the cyclic deposition of anhydrite and anhydritic dolomites of the **Muskeg** formation.

In the top section the dolomites are coarsely crystalline and in general they are of off white, cream to tan, buff, light brown, oil stained. They are predominately very sharp dense, massive, in part microcrystalline to tetrahedral crystalline debris, with abundant of cryptocrystalline grains, in part sucrosic. Usually they are crumpled to moderately hard, lumpy to blocky, smooth to gritty, dense and massive. They are partly earthy & chalky and slightly argillaceous. They predominately wackestone & packstone texture intercalated with some ratty, earthy grains. Traces of fine crystalline limestone with anhydrite grains are also noticed in this interval which possibly intercalated as thin laminae or lenses. Thin

waxy green shale grains are common. Total scattered intracrystalline, pin point, micro fracture and vuggy visible porosities vary between 4 to 14%.

Moderate to strong petroleum odor with even dark brownish oil stain, natural sample fluorescence, greenish yellow streaming cut fluorescence, pale brownish yellow residual ring fluorescence, oil & gas shows lead to all possibilities and properties of a good reservoir and presence of oil & gas deposition.

The upper **Sulphur Point** limestone section is little tight. The dolomite section possesses all the potentiality and characteristics of a good commercial hydrocarbon reservoir and seems to be commercially productive. The well is cased for commercial production testing. Further detail studies and evaluations of the **Sulphur Point** formation are proposed.

DAILY DRILLING SUMMARY

(Morning Report @ 07:00 Hrs)

February 06, 2010	Midnight Depth: 236m
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Rig move from Cameron H-06 to Cameron F-77. Rig up. Check derrick and other surface equipments. P/U Bit# 1RR1, 311mm, Varel, 18.0x3 jets on a stiff drilling assembly. Pre-spud safety meeting. Spud the well at 01:00hrs. Spud mud is Polymer of 1020 kg/m³ and FV: 33 sec/l. Drilling of surface hole from 27m to 69m. Conduct surveys. Continue drilling.

February 07, 2010	Midnight Depth: 378m
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Continue drilling of surface hole from 69m to 312m. Conduct surveys. Continue drilling.

February 08, 2010	Midnight Depth: 379m
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At 378m circulation and mud conditioning to 1060 kg/m³, FV: 40 sec/l and pH: 8.0. Conduct bit trip. Drill down to 379.0m. Mud conditioning to 1080 kg/m³, FV: 57 sec/l and pH: 8.0. POOH. RIH 219.1mm, J-55, 35.716 kg/m, 28 joints surface casings. Circulation and mud conditioning through casing string. Cement casings with Sanjel.

February 09, 2010	Midnight Depth: 379m
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Cement casings with Sanjel. WOC. Cut, weld & dress casing string to the casing bowl. Nipples up BOP stack. Pressure test of BOPs and surface equipments. Pick up a new PDC Bit# 2, 200mm, Reed, DSX416M-A3PDC, Sr. No. 114178, 12.0x6 jets on stiff drilling assembly. RIH. Cement drilling continued.

February 10, 2010	Midnight Depth: 944m
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Drill out cement, float and shoe. Drilling of 200mm main hole from 379m to 710m. Conduct surveys.

February 11, 2010	Midnight Depth: 1221m
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Drill out cement, float and shoe. Drilling of 200mm main hole from 710m to 1049m. Conduct surveys.

February 12, 2010**Midnight Depth:1420m**

Drill out cement, float and shoe. Drilling of 200mm main hole from 1049m to 1299m. Conduct surveys.

February 13, 2010**Midnight Depth:1420m**

Drill out cement, float and shoe. Drilling of 200mm main hole from 1049m to 1420m (-694.08m SS) – TD of the well reached at 18:25hrs. Conduct surveys. Circulation and mud conditioning. Conduct wiper trip of 11 stands. Circulation and mud conditioning to 1040 kg/m³, FV: 52 sec/l, pH: 10.0 and WL: 6.50 cm³. POOH. Logging with Weatherford continued.

February 14, 2010**Midnight Depth:1420m**

Logging with Weatherford. STI/SPeD/CNS/GR/MRT/HBC/CAL tools are run in one run. 10m fill up encountered. Rig logging tools and equipments. RIH with hole cleaning assembly. Ream down last three joints of DPs. Trip gas 286/62 units. Condition mud to 1050 kg/m³, FV: 77 sec/l, pH: 8.5 and WL: 7.0. POOH. RIH 139.7mm production casings continued.

February 15, 2010**Midnight Depth:1420m**

RIH of 139.7mm production casings, 113 joints, J-55, 20.83 kg/m, 127.30mm ID, ST & C, 1417.63m length. Circulation and mud conditioning through the casing string to 1050 kg/m³, FV: 57 sec/l, pH: 10.0 and WL: 8.0 cm³. Trip gas at TD is 286/62 units. Conduct cement job with Sanjel. WOC. Cut weld and dress casing string. Nipple down BOPs. Make up well head and install Christmas Tree. Slip and cut drill line. Tear down rig continued.

February 16, 2010**Midnight Depth:1420m**

Tear down rig continued. Wait on Well License for Rig move.

February 17, 2010**Midnight Depth:1420m**

Rig moved to the new location. Wait on Well License for drilling out Rat Hole, Mouse Hole and Pilot Hole.

SAMPLE DESCRIPTIONS

DRILLED SECTION FROM 27m - 1420.0m RKB (Sampling Depth from 735m to 980m & 1225m to TD)

- 735-745 60% **Limestone:** off white, light brown, buff, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with packstone texture, traces argillaceous mudstone, calcarenite, in part slightly dolomitic, partly earthy & argillaceous, lumpy to blocky, firm to crumpled to moderately hard, traces loose grains to predominately peloids, 3 to 4% total visible intracrystalline porosity with vuggy porosity, no shows.
- 40% **Shale:** dark to blackish grey, greenish grey, micromicaceous in part, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, well indurated, moderately hard to hard, conchoidal to angular break, slightly sideritic, in part carbonaceous & fossiliferous.
- 745-755 60% **Shale:** dark to blackish grey, greenish grey, micromicaceous in part, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, well indurated, moderately hard to hard, conchoidal to angular break, slightly sideritic, in part carbonaceous & fossiliferous.
- 40% **Limestone:** off white, light brown, buff, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with packstone texture, abundant argillaceous mudstone, calcarenite, in part slightly dolomitic, partly earthy & argillaceous, in part chalky debris, lumpy to blocky, firm to crumpled to moderately hard, traces loose grains to predominately peloids, 3 to 4% total visible intracrystalline porosity with vuggy to pin point porosity, no shows.
- 755-765 70% **Shale:** dark to blackish grey, greenish grey, micromicaceous in part, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, well indurated, moderately hard to hard, conchoidal to angular break, slightly sideritic, in part carbonaceous & fossiliferous. 30% **Limestone:** off white, light brown, buff, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with

packstone texture, abundant argillaceous mudstone, calcarenite, in part slightly dolomitic, partly earthy, ratty & argillaceous, in part chalky debris, lumpy to blocky, firm to crumpled to moderately hard, traces loose grains to predominately peloids, 3 to 4% total visible intracrystalline porosity with vuggy to pin point porosity, no shows.

765-775

50% **Limestone:** off white, light brown, buff, predominately cryptocrystalline with traces of microcrystalline debris, traces fine crystalline grainy grains inclusion, predominately mudstone with packstone texture, >5% argillaceous mudstone, calcarenite, in part slightly dolomitic, partly earthy & argillaceous, firm to crumpled to moderately hard, flaky to blocky, commonly loose grains to predominately peloids, in part pyritic, 3 to 4% total visible intracrystalline porosity with pin point & rare vuggy porosity, no shows.

50% **Shale:** grey, brownish grey, greenish grey, micromicaceous in part, non calcareous, subblocky to blocky, subfissile to subplaty,, smooth to gritty texture, in part laminated, moderately hard to hard, in part well indurated, conchoidal to angular break, partly carbonaceous with traces disseminated carbonaceous specks.

775-780.5

60% **Limestone:** off white, light brown, buff, predominately cryptocrystalline with traces of microcrystalline debris, traces fine crystalline with grainy grains inclusion, predominately mudstone with packstone texture, >5% argillaceous mudstone, calcarenite, in part slightly dolomitic, partly earthy & argillaceous, firm to crumpled to moderately hard, flaky to blocky, commonly loose grains to predominately peloids, in part pyritic, 3 to 4% total visible intracrystalline porosity with pin point & rare vuggy porosity, no shows.

40% **Shale:** grey, brownish grey, greenish grey, micromicaceous in part, non calcareous, subblocky to blocky, subfissile to subplaty,, smooth to gritty texture, in part laminated, moderately hard to hard, in part well indurated, conchoidal to angular break, partly carbonaceous with traces disseminated carbonaceous specks.

TWIN FALLS FM TOP @ 780.50m RKB (-54.58m SS)

780.5-790

80% **Limestone:** off white, light brown, buff, predominately cryptocrystalline with traces of microcrystalline debris,

- occasionally fine crystalline grainy grains inclusion, predominately mudstone with packstone texture, traces argillaceous mudstone, calcarenite, in part slightly dolomitic, partly earthy & argillaceous, firm to moderately hard, flaky to blocky, commonly loose grains to predominately peloids, in part pyritic, 3 to 4% total visible intracrystalline porosity with pin point & rare vuggy porosity, no shows.
- 20% **Shale:** grey to brownish grey, greenish grey, micromicaceous in part, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard to hard, conchoidal to angular break, partly carbonaceous with traces disseminated carbonaceous specks, partly dull earthy texture.
- 790-800 100% **Limestone:** off white, light brown, buff, predominately cryptocrystalline with traces of microcrystalline debris, occasionally fine crystalline grainy grains inclusion, predominately mudstone with packstone texture, traces argillaceous mudstone, slightly calcitic, in part slightly dolomitic, partly earthy & argillaceous, firm to moderately hard, flaky to blocky, commonly loose grains to predominately peloids, in part pyritic with traces loose pyrite grains, 3 to 4% total visible intracrystalline porosity with pin point & rare vuggy porosity, no shows. <10% brownish to greenish grey, dark grey, non to slightly calcareous, smooth to gritty texture, moderately hard to hard, well indurated, conchoidal to angular break, in part carbonaceous.
- 800-810 100% **Limestone:** off white, light brown, buff, predominately cryptocrystalline with traces of microcrystalline debris, occasionally fine crystalline grainy grains inclusion, predominately mudstone with packstone texture, traces argillaceous mudstone, slightly calcitic, in part slightly dolomitic, partly earthy & argillaceous, firm to moderately hard, flaky to blocky, commonly loose grains to predominately peloids, in part pyritic with traces loose pyrite grains, 3 to 4% total visible intracrystalline porosity with pin point & rare vuggy porosity, no shows. <10% brownish to greenish grey, dark grey, non to slightly calcareous, smooth to gritty texture, moderately hard to hard, well indurated, conchoidal to angular break, in part carbonaceous.
- 810-820 100% **Limestone:** off white, light brown, buff, predominately cryptocrystalline with traces of microcrystalline debris, occasionally fine crystalline grainy grains inclusion, predominately mudstone with packstone texture, traces argillaceous mudstone, slightly calcitic, in part slightly dolomitic, partly earthy & argillaceous, partly chalky, firm to moderately hard, flaky to blocky, commonly loose grains to predominately peloids, in part

- pyritic with traces loose pyrite grains, 3 to 4% total visible intracrystalline porosity with pin point & rare vuggy porosity, no shows. <10% brownish to greenish grey, dark grey, non to slightly calcareous, smooth to gritty texture, moderately hard to hard, well indurated, conchoidal to angular break, in part carbonaceous.
- 820-830 80% **Limestone:** off white, light brown, tan, predominately cryptocrystalline with traces of microcrystalline debris, in part very fine crystalline & grainy, predominately mudstone with partly packstone texture, traces argillaceous mudstone & chalky debris, in part biostromal, calcarenite, in part argillaceous & dolomitic, partly earthy & ratty, firm to crumpled to moderately hard, lumpy to blocky, commonly loose grains to predominately peloids, 3 to 5% total visible intracrystalline with vuggy & pin point porosity, no shows.
20% **Shale:** greenish grey, grey to brownish grey, in part micromicaceous, slightly calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard, partly carbonaceous, partly dull earthy texture, occur as thin laminae, in part fossiliferous.
- 830-840 80% **Limestone:** off white, light brown, tan, predominately cryptocrystalline with traces of microcrystalline debris, in part very fine crystalline & grainy, predominately mudstone with partly packstone texture, traces argillaceous mudstone & chalky debris, in part biostromal, slightly calcitic, in part argillaceous & dolomitic, partly earthy & ratty, firm to crumpled to moderately hard, lumpy to blocky, commonly loose grains to predominately peloids, 3 to 5% total visible intracrystalline with vuggy & pin point porosity, no shows.
20% **Shale:** greenish grey, grey to brownish grey, in part micromicaceous, slightly calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard, partly carbonaceous, partly dull earthy texture, occur as thin laminae, in part fossiliferous.
- 840-850 90% **Limestone:** off white, light brown, tan, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, in part sucrosic with traces argillaceous mudstone & chalky debris, in part biostromal, slightly calcitic, in part argillaceous, partly earthy & ratty, firm to crumpled to moderately hard, lumpy to blocky, commonly loose grains to predominately peloids, 4 to 6% total visible intracrystalline with vuggy & pin point porosity, no shows.
10% **Shale:** greenish grey, grey to brownish grey, in part micromicaceous, slightly calcareous, subblocky to blocky,

subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard, partly carbonaceous, partly dull earthy texture, occur as thin laminae, in part fossiliferous.

850-860

90% **Limestone:** off white, light brown, tan, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, in part sucrosic with traces argillaceous mudstone & chalky debris, in part biostromal, slightly calcitic, in part argillaceous, partly earthy & ratty, firm to crumpled to moderately hard, lumpy to blocky, commonly loose grains to predominately peloids, 4 to 6% total visible intracrystalline with vuggy & pin point porosity, no shows. 10% **Shale:** greenish grey, grey to brownish grey, in part micromicaceous, slightly calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard, partly carbonaceous, partly dull earthy texture, occur as thin laminae, in part fossiliferous.

860-865

80% **Limestone:** off white, light brown, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, traces argillaceous mudstone & chalky debris, in part biostromal, calcarenite, rare slightly dolomitic, partly earthy & ratty & argillaceous, firm to crumpled to moderately hard, lumpy to blocky to subblocky, commonly loose grains to predominately peloids, 3 to 6% total visible intracrystalline porosity with vuggy & pin point porosity, no shows. 20% **Shale:** greenish grey, grey, brownish grey, in part micromicaceous, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard to hard, conchoidal to angular break, partly carbonaceous, partly dull earthy texture, occur as thin laminae.

865-870

80% **Limestone:** off white, light brown, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, traces argillaceous mudstone & chalky debris, in part biostromal, calcarenite, rare slightly dolomitic, partly earthy & ratty & argillaceous, firm to crumpled to moderately hard, lumpy to blocky to subblocky, commonly loose grains to predominately peloids, 3 to 6% total visible intracrystalline porosity with vuggy & pin point porosity, no shows. 20% **Shale:** greenish grey, grey, brownish grey, in part micromicaceous, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately

hard to hard, conchoidal to angular break, partly carbonaceous, partly dull earthy texture, occur as thin laminae.

870-880

80% **Limestone:** off white, light brown, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, traces argillaceous mudstone & chalky debris, in part biostromal, calcarenite, rare slightly dolomitic, partly earthy & ratty & argillaceous, firm to crumpled to moderately hard, lumpy to blocky to subblocky, commonly loose grains to predominately peloids, 3 to 4% total visible intracrystalline porosity with vuggy & pin point porosity, no shows.

20% **Shale:** greenish grey, grey, brownish grey, in part micromicaceous, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard to hard, conchoidal to angular break, partly carbonaceous, partly dull earthy texture.

880-885

70% **Limestone:** off white, light brown, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, in part biostromal, slightly calcitic, partly earthy & ratty & argillaceous, in part chalky, firm to moderately hard, flaky to subblocky to blocky, commonly loose grains to predominately peloids, 3 to 4% total visible intracrystalline porosity with vuggy & pin point porosity, no shows.

30% **Shale:** greenish grey, grey, brownish grey, in part micromicaceous, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard to hard, conchoidal to angular break, partly carbonaceous, partly dull earthy texture.

885-890

70% **Limestone:** off white, light brown, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, in part biostromal, slightly calcitic, partly earthy & ratty & argillaceous, in part chalky, firm to moderately hard, flaky to subblocky to blocky, commonly loose grains to predominately peloids, 3 to 4% total visible intracrystalline porosity with vuggy & pin point porosity, no shows.

30% **Shale:** greenish grey, grey, brownish grey, in part micromicaceous, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard to hard, conchoidal to angular break, partly carbonaceous, partly dull earthy texture.

- 900-910 60% **Limestone:** off white, light brown, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, in part biostromal, slightly calcitic, partly earthy & ratty & argillaceous, in part chalky, firm to moderately hard, flaky to subblocky to blocky, commonly loose grains to predominately peloids, 3 to 4% total visible intracrystalline porosity with vuggy porosity, no shows. 40% **Shale:** greenish grey, grey, brownish grey, in part micromicaceous, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard to hard, conchoidal to angular break, partly carbonaceous, partly dull earthy texture, traces siltstone stringers inclusion.
- 910-920 50% **Limestone:** off white, light brown, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, in part biostromal, slightly calcitic, partly earthy & ratty & argillaceous, in part chalky, firm to moderately hard, flaky to subblocky to blocky, commonly loose grains to predominately peloids, 3 to 4% total visible intracrystalline porosity with vuggy porosity, no shows. 50% **Shale:** greenish grey, grey, brownish grey, in part micromicaceous, non calcareous, subblocky to blocky, subfissile to subplaty, smooth to gritty texture, in part laminated, moderately hard to hard, conchoidal to angular break, partly carbonaceous, partly dull earthy texture, traces siltstone stringers inclusion.
- 920-930 70% **Shale:** greenish grey, grey, brownish grey, micromicaceous, generally slightly to moderately salty, micro laminated on darker & harder fraction, calcareous, dense, massive, amorphous to blocky, fissile to platy, smooth to gritty texture, well indurated, partly dull earthy, firm to moderately hard, in part thinly laminated, slightly sideritic, partly carbonaceous, >5% siltstone stringers inclusion, traces chart fragments, in part fossiliferous. 30% **Limestone:** off white, light brown, tan, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, in part biostromal, slightly dolomitic, traces argillaceous mudstone & chalky debris, partly earthy & argillaceous, 3% total visible intracrystalline porosity with vuggy porosity, no shows.
- 930-939.5 70% **Shale:** greenish grey, grey, brownish grey, micromicaceous, generally slightly to moderately silty, micro laminated on darker & harder fraction, calcareous, dense, massive, amorphous to blocky, fissile to platy, smooth to gritty texture, well indurated, partly dull earthy, firm to moderately hard, in part thinly laminated, slightly

sideritic, partly carbonaceous, >5% siltstone stringers inclusion, traces chert fragments, in part fossiliferous.

30% **Limestone:** off white, light brown, tan, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, in part biostromal, slightly dolomitic, traces argillaceous mudstone & chalky debris, partly earthy & argillaceous, 3% total visible intracrystalline porosity with vuggy porosity, no shows.

HAY RIVER FM TOP @ 939.50m RKB (-213.58m SS)

939.5-950

90% **Shale:** greenish grey, grey, brownish grey, micromicaceous, generally slightly to moderately silty, micro laminated on darker & harder fraction, calcareous, dense, massive, amorphous to blocky, fissile to platy, smooth to gritty texture, well indurated, partly dull earthy, firm to moderately hard, in part thinly laminated, slightly sideritic, partly carbonaceous, >5% siltstone stringers inclusion, in part fossiliferous.

10% **Limestone:** off white, light brown, tan, predominately cryptocrystalline with traces of microcrystalline debris, predominately mudstone with partly packstone texture, in part biostromal, slightly dolomitic, occur as thin laminae, traces argillaceous mudstone & chalky debris, partly earthy & argillaceous, maximum 3% total visible intracrystalline porosity with vuggy porosity, no shows.

950-960

100% **Shale:** greenish grey, grey, brownish grey, micromicaceous, generally slightly to moderately silty, micro laminated on darker & harder fraction, calcareous, dense, massive, amorphous to blocky, fissile to platy, smooth to gritty texture, well indurated, partly dull earthy, firm to moderately hard, in part thinly laminated, slightly sideritic, partly carbonaceous, >5% siltstone stringers inclusion, in part fossiliferous. <10% off white, light brown, predominately mudstone with partly packstone texture, in part biostromal limestone.

960-970

100% **Shale:** greenish grey, grey, brownish grey, micromicaceous, generally slightly to moderately silty, micro laminated on darker & harder fraction, calcareous, dense, massive, amorphous to blocky, fissile to platy, smooth to gritty texture, well indurated, in part dull earthy, firm to moderately hard, in part thinly laminated, slightly

sideritic, partly carbonaceous, traces of pyrite grains, >5% siltstone stringers inclusion, in part fossiliferous. >5% off white, light brown, predominately mudstone with packstone texture, in part biostromal limestone.

970-980

100% **Shale:** greenish grey, grey, brownish grey, micromicaceous, generally slightly to moderately silty, micro laminated on darker & harder fraction, calcareous, dense, massive, amorphous to blocky, fissile to platy, smooth to gritty texture, well indurated, in part dull earthy, firm to moderately hard, in part thinly laminated, slightly sideritic, partly carbonaceous, rare pyritic with traces loose pyrite grains, >5% siltstone stringers inclusion, in part fossiliferous. >5% off white, light brown, predominately mudstone with packstone texture, in part biostromal limestone.

980-1225
1225-1235

No descriptions done
100% **Shale:** medium to dark grey, greenish grey, micromicaceous, generally slightly to moderately in part silty, micro laminated on darker & harder fraction with fine silty partings, slightly calcareous, dense, massive, grading to mudstone, splintery to blocky, subfissile to platy, smooth to waxy texture, in part dull earthy & partly well indurated, firm to friable to moderately hard, occasionally micro to thinly laminated, bituminous in part, slightly sideritic, in part carbonaceous with traces of disseminated carbonaceous specks, randomly oriented with biotitic mica flakes, traces siltstone stringers, traces of argillaceous limestone, occasionally traces disseminated pyrite, fossiliferous.

1235-1245

100% **Shale:** medium to dark grey, greenish grey, micromicaceous, generally slightly to moderately in part silty, micro laminated on darker & harder fraction with fine silty partings, slightly calcareous, dense, massive, grading to mudstone, splintery to blocky, subfissile to platy, smooth to waxy texture, in part dull earthy & partly well indurated, firm to friable to moderately hard, occasionally micro to thinly laminated, bituminous in part, slightly sideritic, in part carbonaceous with traces of disseminated carbonaceous specks, randomly oriented with biotitic mica flakes, traces siltstone stringers, traces of argillaceous limestone, occasionally traces disseminated pyrite, in part fossiliferous.

1245-1255

100% **Shale:** medium grey, dark grey, greenish grey, micromicaceous, generally slightly to moderately in part silty, micro laminated on darker & harder fraction with fine silty partings, partly very calcareous grading to shaley limestone, dense, massive, grading to mudstone, splintery to blocky, subfissile to

platy, smooth to waxy texture, in part dull earthy & partly well indurated, firm to friable to moderately hard, occasionally micro to thinly laminated, bituminous in part, slightly sideritic, in part carbonaceous with traces of disseminated carbonaceous specks, randomly oriented with biotitic mica flakes, traces siltstone stringers, traces dark argillaceous limestone with chert fragments, generally fossiliferous.

1255-1265

100% **Shale:** medium grey, dark grey, greenish grey, micromicaceous, generally slightly to moderately in part silty, micro laminated on darker & harder fraction with fine silty partings, partly very calcareous grading to shaley limestone, dense, massive, grading to mudstone, splintery to blocky, subfissile to platy, smooth to waxy texture, in part dull earthy & partly well indurated, firm to friable to moderately hard, occasionally micro to thinly laminated, bituminous in part, slightly sideritic, in part carbonaceous with traces of disseminated carbonaceous specks, randomly oriented with biotitic mica flakes, traces siltstone stringers, traces of dark argillaceous limestone, generally fossiliferous.

1265-1272.5

100% **Shale:** medium grey, dark grey, greenish grey, micromicaceous, generally slightly to moderately in part silty, micro laminated on darker & harder fraction with fine silty partings, partly very calcareous grading to shaley limestone, dense, massive, grading to mudstone, splintery to blocky, subfissile to platy, smooth to waxy texture, in part dull earthy & partly well indurated, firm to friable to moderately hard, occasionally micro to thinly laminated, bituminous in part, slightly sideritic, in part carbonaceous with traces of disseminated carbonaceous specks, randomly oriented with biotitic mica flakes, traces siltstone stringers, traces of dark argillaceous limestone, generally fossiliferous.

BEAVERHILL LAKE FM TOP @ 1272.50m (-546.58m SS)

1272.5-1280

100% **Shale:** medium grey, brownish grey, commonly micromicaceous, generally silty, micro laminated on darker & harder fraction with fine silty partings, partly very calcareous grading to shaley limestone, dense, massive, grading to mudstone, splintery to blocky, subfissile to platy, smooth to gritty to waxy texture, rare earthy & well indurated, firm to moderately hard,

occasionally micro to thinly laminated, slightly sideritic, in part carbonaceous with disseminated carbonaceous specks, randomly oriented with biotite mica flakes, traces siltstone stringers, traces dark argillaceous limestone with chert fragments, occasionally pyretic with traces of loose scattered granular pyrite fragments, traces inoceramus prism, occasionally fossiliferous.

1280-1290

100% **Shale:** medium grey, brownish grey, commonly micromicaceous, generally silty, micro laminated on darker & harder fraction with fine silty partings, partly very calcareous grading to shaley limestone, dense, massive, grading to mudstone, splintery to blocky, subfissile to platy, smooth to gritty to waxy texture, rare earthy & well indurated, firm to moderately hard, occasionally micro to thinly laminated, slightly sideritic, in part carbonaceous with disseminated carbonaceous specks, randomly oriented with biotite mica flakes, traces siltstone stringers, traces dark argillaceous limestone with off white limestone grains, occasionally pyretic with traces of loose scattered granular pyrite fragments, traces inoceramus prism, occasionally fossiliferous.

1290-1295.5

100% **Shale:** medium grey, brownish grey, commonly micromicaceous, generally silty, micro laminated on darker & harder fraction with fine silty partings, partly very calcareous grading to shaley limestone, dense, massive, grading to mudstone, splintery to blocky, subfissile to platy, smooth to gritty to waxy texture, rare earthy & well indurated, firm to moderately hard, occasionally micro to thinly laminated, slightly sideritic, in part carbonaceous with disseminated carbonaceous specks, randomly oriented with biotite mica flakes, traces siltstone stringers, <10% dark argillaceous limestone with off white limestone grains, occasionally pyretic with traces of loose scattered granular pyrite fragments, traces inoceramus prism, occasionally fossiliferous.

SLAVE POINT FM TOP @ 1295.50m RKB (-569.58m SS)

1295.5-1305

50% **Limestone:** off white, mottled, creamy, firm to crumpled to moderately hard, lumpy to blocky, in part chalky, predominately cryptocrystalline to microcrystalline, predominately packstone with wackestone & mudstone, in part dolomitic, in part pyritic with traces of loose scattered granular pyrite fragments, 3 to 5% total visible vuggy, intracrystalline & pin point porosity, <10% light

brown oil show, no visible staining, no odor, light pale brownish yellow natural sample fluorescence, very faint cut, light bluish white residual ring fluorescence, gas & oil show.

50% **Shale:** light to medium grey, dark grey, commonly brownish grey, micromicaceous, silty, generally slightly to moderately in part silty.

1305-1315

100% **Limestone:** off white, mottled, creamy, traces oil stained, crumpled to moderately hard, lumpy to blocky, in part chalky, predominately cryptocrystalline to microcrystalline, occasionally fine crystalline grainy grains inclusion, predominately packstone with wackestone & mudstone, traces of sucrosic grains, in part pyritic with traces of loose scattered granular pyrite fragments, 3 to 9% total visible vuggy, intracrystalline & pin point porosity, spotty light brown scattered natural sample fluorescence, moderate petroleum odor, pale brownish yellow natural sample fluorescence, faint cut, light bluish white residual ring fluorescence, gas & oil show. >10% light to medium grey, dark grey, commonly brownish grey, micromicaceous, silty, smooth to gritty texture, well indurated shale fragments.

1315-1320

100% **Limestone:** off white, mottled, creamy, traces oil stained, crumpled to moderately hard, lumpy to blocky, in part chalky, predominately cryptocrystalline to microcrystalline, occasionally fine crystalline grainy grains inclusion, predominately packstone with wackestone & mudstone, traces of sucrosic grains, in part pyritic with traces of loose scattered granular pyrite fragments, 4 to 10% total visible vuggy, intracrystalline & pin point porosity, spotty to patchy light brown scattered natural sample fluorescence, moderate petroleum odor, pale brownish yellow natural sample fluorescence, faint cut, light bluish white residual ring fluorescence, oil & gas show. >10% medium to dark grey, smooth to gritty waxy texture, well indurated shale fragments inclusion.

1320-1330

100% **Limestone:** brown, tan, off white, light yellow with dark brown stain, mottled, firm, friable to crumpled to moderately hard, lumpy to blocky, predominately cryptocrystalline with microcrystalline & traces very fine crystalline debris, predominately packstone to wackestone texture, partly mudstone, intraclasts & occasionally bioclastic debris, calcarenite, partly earthy & argillaceous, in part dolomitic & anhydritic, local bituminous partings, >5% grey, dark grey, brownish grey shale fragments inclusion, traces pyritic grains with traces of loose scattered granular pyrite fragments, 3 to 8% total visible intracrystalline, vuggy & pin point porosity, slight petroleum odor,

spotty light brown natural sample fluorescence, slow faint cut, pale yellowish brown residual ring fluorescence, oil & gas show.

1330-1336.5

100% **Limestone:** brown, tan, off white, light yellow with dark brown stain, mottled, firm, friable to crumpled to moderately hard, lumpy to blocky, predominately cryptocrystalline with microcrystalline & traces very fine crystalline debris, predominately packstone to wackestone texture, partly mudstone, intraclasts & occasionally bioclastic debris, calcarenite, partly earthy & argillaceous, in part dolomitic & anhydritic, local bituminous partings, >5% grey, dark grey, brownish grey shale fragments inclusion, traces pyritic grains with traces of loose scattered granular pyrite fragments, 3 to 8% total visible intracrystalline, vuggy & pin point porosity, slight petroleum odor, spotty light brown natural sample fluorescence, slow faint cut, pale yellowish brown residual ring fluorescence, oil & gas show.

F4 MARKER FMTOP @ 1336.50m RKB (-610.58m SS)

1336.5-1346

60% **Limestone:** brown, tan, light yellow with dark brown stain, mottled, predominately cryptocrystalline with microcrystalline debris, 3 to 5% total visible vuggy & intracrystalline porosity, no odor, no visible staining, >5% light brown natural sample fluorescence, hazy cut fluorescence, no shows. 40% **Dolomite:** Dolomite: off white, satiny, creamy, predominately cryptocrystalline debris, mudstone to packstone argillaceous debris, fossiliferous, traces of shale fragments, abundant of calcite & anhydrite inclusions, 3 - 4% visible vuggy & intracrystalline porosity, hazy cut fluorescence.

WATT MOUNTAIN FM TOP @ 1346.0m RKB (-620.08m SS)

1346-1350.5

60% **Shale:** greenish grey, green, micromicaceous, micro laminated, slightly calcareous, dense, massive, amorphous to subfissile, smooth to gritty texture, in part well indurated, partly dull earthy texture, predominately moderately hard, partly

carbonaceous with traces of disseminated carbonaceous specks, traces of anhydrite & chert inclusion.

40% **Limestone:** brown, tan, light yellow with dark brown stain, mottled, friable to crumpled to moderately hard, lumpy to blocky, predominately cryptocrystalline with microcrystalline debris, slightly dolomitic, 3 to 5% total visible vuggy & intracrystalline, porosity, hazy cut fluorescence, no shows.

SULPHUR POINT FM LS TOP @ 1350.50m (-624.58m SS)

1350.5-1359.5

100% **Limestone:** off white, cream to buff, mottled, very sharp to dense cryptocrystalline to debris, traces microcrystalline with fine crystalline grains, predominately wackestone to packstone, in part chalky & argillaceous, slightly dolomitic, moderately hard, lumpy to blocky, intraclasts & occasionally bioclastic debris, traces pelletoidal inclusion, >10% dark to brownish grey waxy, well indurated shale grains with traces anhydrite grains, 4 to 9% total scattered visible vuggy to intracrystalline to mf porosity, no visible staining, spotty brownish oil stain to moderate petroleum odor, light brownish yellow natural sample fluorescence, light greenish yellow streaming cut fluorescence, light brownish yellow residual ring fluorescence, oil show (?).

SULPHUR POINT FM DOL TOP @ 1359.50m (-633.58m SS)

1359.5-1365

100% **Dolomite:** off white to light brown, tan to buff, oil stain, very sharp dense, massive, in part microcrystalline to tetrahedral crystalline debris, predominately wackestone to packstone, predominately grainy & sucrosic, rare chalky, slightly limy, in part argillaceous & slightly calcitic, traces calcite inclusion, rare with bituminous partings, slightly anhydritic, <5% green waxy shale inclusion, 5 to 14% total scattered visible intracrystalline, pin point & vuggy porosity, no visible staining, strong petroleum odor with even dark brownish yellow oil stain, light brownish yellow natural sample fluorescence, greenish yellow streaming cut fluorescence, pale brownish yellow residual ring fluorescence, oil & gas show.

1365-1371 100% **Dolomite:** off white to light brown, tan to buff, oil stain, very sharp dense, massive, in part microcrystalline to tetrahedral crystalline debris, predominately wackestone to packstone, predominately grainy & sucrosic, rare chalky, slightly limy, in part argillaceous & slightly calcitic, traces calcite inclusion, rare with bituminous partings, slightly anhydritic, traces green waxy shale inclusion, traces of anhydrite, 5 to 14% total scattered visible intracrystalline, pin point & vuggy porosity, no visible staining, strong petroleum odor with even dark brownish yellow oil stain, light brownish yellow natural sample fluorescence, greenish yellow streaming cut fluorescence, pale brownish yellow residual ring fluorescence, oil & gas show.

MUSKEG FORMATION TOP @ 1371.00m KB (-645.08m SS)

1371-1380 60% **Dolomite:** off white, cream to buff, tan, very sharp microcrystalline to fine crystalline debris, predominately grainstone to wackestone to packstone, in part grainy, partly chalky, slightly limy, slightly to very anhydritic, minor argillaceous & earthy, calcarenite, 3 to 5% total scattered visible intracrystalline to vuggy porosity, slight petroleum odor, traces light brownish yellow natural sample fluorescence, hazy cut fluorescence, poor show.

40% **Anhydrite:** white, off white, brown to dark brown, hyaline, irregularly shaped, sharp, angular cryptocrystalline with traces microcrystalline, in part chalky, abundant of calcite inclusion.

1380-1390 70% **Anhydrite:** white, off white, brown to dark brown, hyaline, irregularly shaped, sharp, angular cryptocrystalline with traces microcrystalline, dense, abundant of calcite inclusion, traces of fine crystalline limestone with abundant of brownish grey to tan dolomite inclusion.

30% **Dolomite:** off white, cream to buff, tan, very sharp microcrystalline to fine crystalline debris, predominately grainstone to wackestone to packstone, in part grainy, partly chalky, slightly limy, slightly to very anhydritic, minor argillaceous & earthy, calcarenite, 3 to 5% total scattered visible intracrystalline to vuggy porosity, slight poor odor, traces light brownish yellow natural sample fluorescence, hazy cut fluorescence, poor show.

- 1390-1395 60% **Anhydrite:** white, off white, brown to dark brown, hyaline, irregularly shaped, sharp, angular cryptocrystalline with traces microcrystalline, dense, abundant of calcite inclusion, traces of fine crystalline limestone with abundant of brownish grey to tan dolomite inclusion.
40% **Dolomite:** off white, cream to buff, tan, very sharp microcrystalline to fine crystalline debris, predominately grainstone to wackestone to packstone, in part grainy, partly chalky, slightly limy, slightly to very anhydritic, minor argillaceous & earthy, calcarenite, 3 to 5% total scattered visible intracrystalline to vuggy porosity, slight poor odor, traces light brownish yellow natural sample fluorescence, hazy cut fluorescence, poor show.
- 1395-1405 60% **Anhydrite:** white, off white, brown to dark brown, hyaline, irregularly shaped, sharp, angular cryptocrystalline with traces microcrystalline, dense, abundant of calcite inclusion, traces of fine crystalline limestone with abundant of brownish grey to tan dolomite inclusion.
40% **Dolomite:** off white, cream to buff, tan, very sharp microcrystalline to fine crystalline debris, predominately grainstone to wackestone to packstone, in part grainy, partly chalky, slightly limy, very anhydritic, minor argillaceous & earthy, calcarenite, 3 to 5% total scattered visible intracrystalline to vuggy porosity, slight poor odor, traces light brownish yellow natural sample fluorescence, hazy cut fluorescence, poor show.
- 1405-1410 60% **Anhydrite:** white, off white, brown to dark brown, hyaline, irregularly shaped, sharp, angular cryptocrystalline with traces microcrystalline, dense, abundant of calcite inclusion, traces of fine crystalline limestone with abundant of brownish grey to tan dolomite inclusion.
40% **Dolomite:** off white, cream to buff, tan, very sharp microcrystalline to fine crystalline debris, predominately grainstone to wackestone to packstone, in part grainy, partly chalky, slightly limy, slightly to very anhydritic, minor argillaceous & earthy, calcarenite, 3 to 5% total scattered visible intracrystalline to vuggy porosity, slight poor odor, traces light brownish yellow natural sample fluorescence, hazy cut fluorescence, poor show.
- 1410-1415 60% **Anhydrite:** white, off white, brown to dark brown, hyaline, irregularly shaped, sharp, angular cryptocrystalline with traces microcrystalline, dense, abundant of calcite inclusion, traces of fine

crystalline limestone with abundant of brownish grey to tan dolomite inclusion.

40% **Dolomite**: off white, cream to buff, tan, very sharp microcrystalline to fine crystalline debris, predominately grainstone to wackestone to packstone, in part grainy, partly chalky, slightly limy, slightly to very anhydritic, minor argillaceous & earthy, calcarenite, 3 to 5% total scattered visible intracrystalline to vuggy porosity, slight poor odor, traces light brownish yellow natural sample fluorescence, hazy cut fluorescence, poor show.

1415-1420

100% **Anhydrite**: white, off white, brown to dark brown, hyaline, irregularly shaped, sharp, angular cryptocrystalline with traces microcrystalline, dense, abundant of calcite inclusion, traces of fine crystalline limestone with abundant of brownish grey to tan dolomite inclusion.

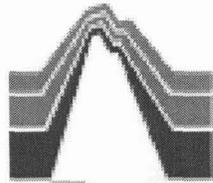
TD OF PARA ET AL CAMERON F-77.

DISTRIBUTION

The original and five (5) copies of the Geological Report on Para Et Al Cameron F-77 have been completed. The original and four (4) Copies will be forwarded to PARAMOUNT RESOURCES LTD. and "Moh & Associate Oilfield Consultants Ltd." will retain the remaining copy.

Respectfully

Moh Sahota, B. Sc. (Hons), M. Sc. Geology
President,
Moh & Association Oilfield Consultants Ltd.



Paramount
resources ltd.

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

Well Name: PARA ET AL CAMERON F-77
 Location: 300/F77-6010-117150
 License Number: 1221
 Spud Date: Feb 06, 2010 @ 01:00 Hrs.
 Surface Coordinates: Latitude: 60° 06' 29.3" North
 Longitude: 117° 29' 04.7" West
 Bottom Hole Coordinates: Latitude: 60° 06' 29.3" North
 Longitude: 117° 29' 04.7" West
 Ground Elevation (m): 721.17m K.B. Elevation (m): 725.92m
 Logged Interval (m): 27.0m To: 1410.6m Total Depth (m): 1420.0m
 Formation: Primary: Sulphur Point Secondary: Slave Point
 Type of Drilling Fluid: Polymer - Flocc Water - Polymer.

Region: NWT

Drilling Completed: Feb 12, 2010 @ 18:25 H

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 T2P 5C5.

GEOLOGIST

Name: Azim Ahmed
 Company: Moh and Associates Oilfield Consultants Ltd.
 Address: 509, 206 - 7th Ave SW
 Calgary, AB T2P 0W7.

Comments

- # The well is drilled as a vertical one and all depths are measured from RKB.
- # The well is drilled by Precision Drilling Rig# 245.
- # AFE# 09NO10009
- # A Total Gas Detector is used for gas detection.
- # Logging conducted by Weatherford.
- Run# 1: STI/SPeD/CNS/GR/MRT/HBC/CAL tools are run in.
- # Neutron & Density porosity logs presented on a limestone and dolomite scales.
- # 139.7mm production casings are run in.

ROCK TYPES

	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Slst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

ACCESSORIES

- MINERAL**
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Brefracg
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- FOSSIL**
- Algae
 - Amph
 - Belm
 - Bioclst
 - Brach
 - Bryozoa
 - Cephal
 - Coral
 - Crin
 - Echin
 - Fish
 - Foram
 - Fossil
 - Gastro
 - Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

- STRINGER**
- Anhy
 - Arg
 - Bent
 - Coal
 - Dol
 - Gyp
 - Ls
 - Mrst

- Sltstrg
- Ssstrg

- TEXTURE**
- Boundst
 - Chalky
 - Cryxln
 - Earthy
 - Finexln
 - Grainst
 - Lithogr
 - Microxln
 - Mudst
 - Packst
 - Wackest

OTHER SYMBOLS

- POROSITY**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

- Vuggy
- SORTING**
- Well
 - Moderate
 - Poor

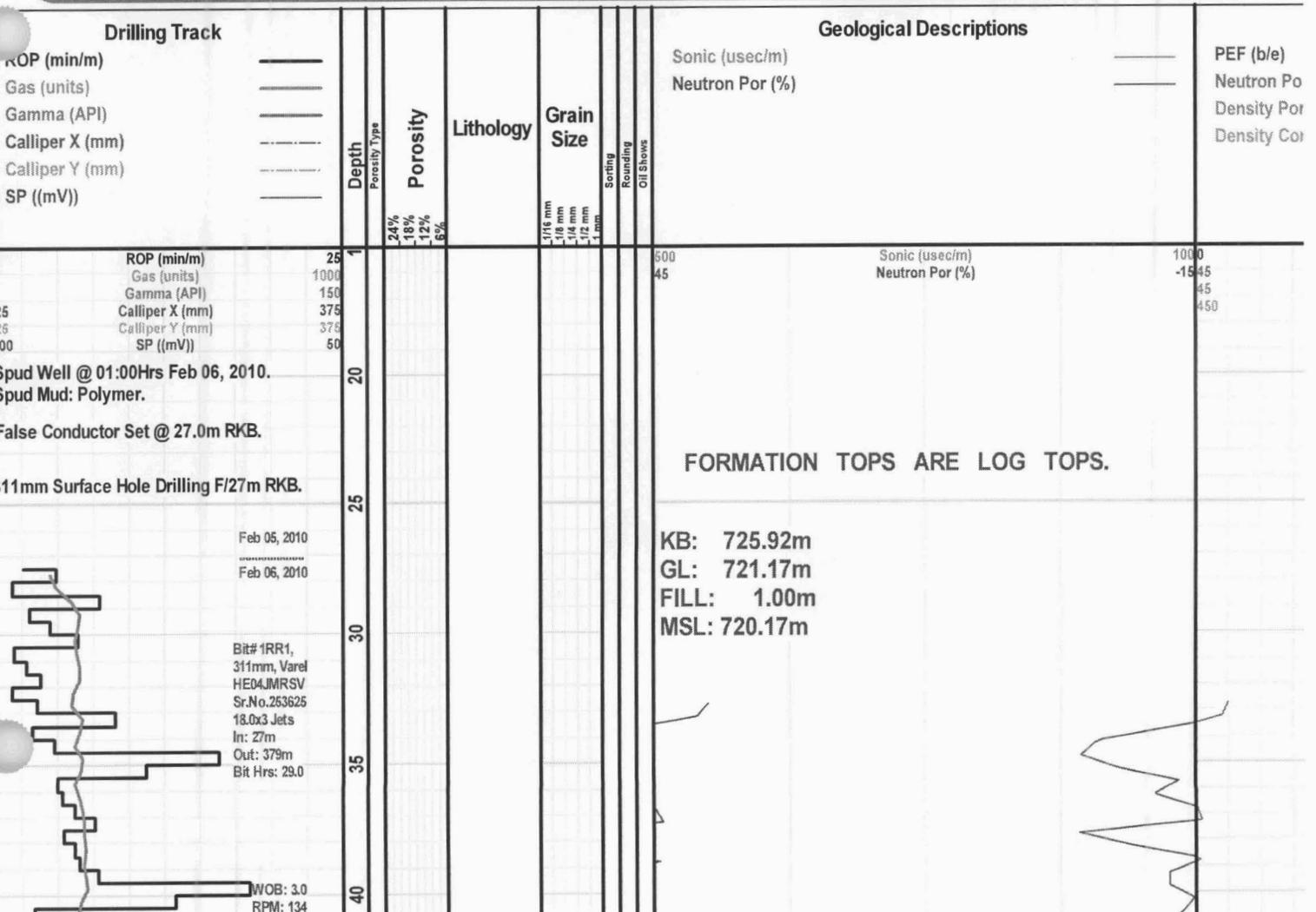
- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

- OIL SHOW**
- Even

- Spotted
- Ques
- Dead

- INTERVAL**
- Core
 - Dst

- EVENT**
- Rft
 - Sidewall



SPM: 78+70
PP: 3000

MW: 1020
VIS: 33
pH: 8.0

Svy @ 48.0m
TVD: 48.0m
Inc: 1.00°

Drilling W/ Polymer Mud.

ROP (min/m)	25
Gas (units)	1000
Gamma (API)	150
Calliper X (mm)	375
Calliper Y (mm)	375
SP ((mV))	50

Svy @ 72.0m
TVD: 72.0m
Inc: 0.50°

ROP (min/m)	25
Gas (units)	1000
Gamma (API)	150
Calliper X (mm)	375
Calliper Y (mm)	375
SP ((mV))	50

Svy @ 104.0m
TVD: 104.0m
Inc: 0.50°

Sonic (usec/m)
Neutron Por (%)

1000
-1545
45
450

Sonic (usec/m)
Neutron Por (%)

1000
-1545
45
450

inc: 0.50'

WOB: 2.5
RPM: 160
SPM: 80+69
PP: 4150

MW: 1050
VIS: 37
pH: 8.0

0
0
0
125
125
-100

ROP (min/m)
Gas (units)
Gamma (API)
Calliper X (mm)
Calliper Y (mm)
SP (mV)

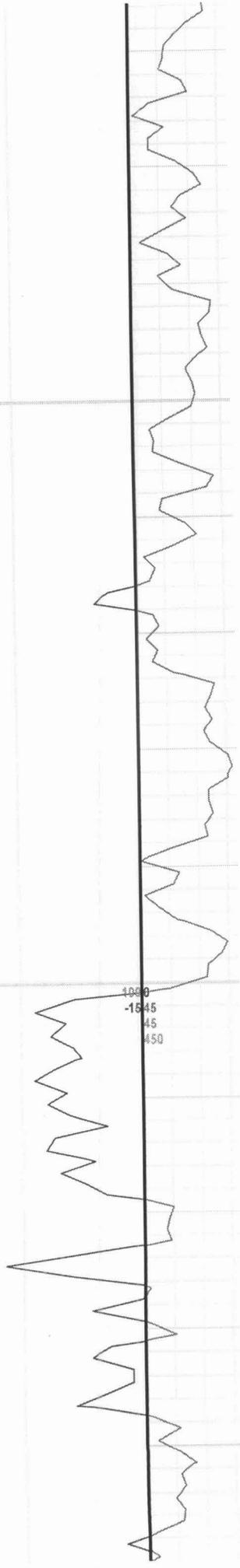
25
1000
150
375
375
50

110
115
120
125
130
135
140
145
150
155
160
165
170



Sonic (usec/m)
Neutron Por (%)

1000
-15
45
450



Svy @ 179.0m
TVD: 179.0m
Inc: 1.00°

ROP (min/m)
Gas (units)
Gamma (API)
Calliper X (mm)
Calliper Y (mm)
SP ((mV))

25
1000
150
375
375
50

Svy @ 216.0m
TVD: 216.0m
Inc: 1.00°

WOB: 2.5
RPM: 165
SPM: 72+70
PP: 4250

MW: 1050
VIS: 37
pH: 8.0

Svy @ 234.0m
TVD: 234.0m
Inc: 1.00°

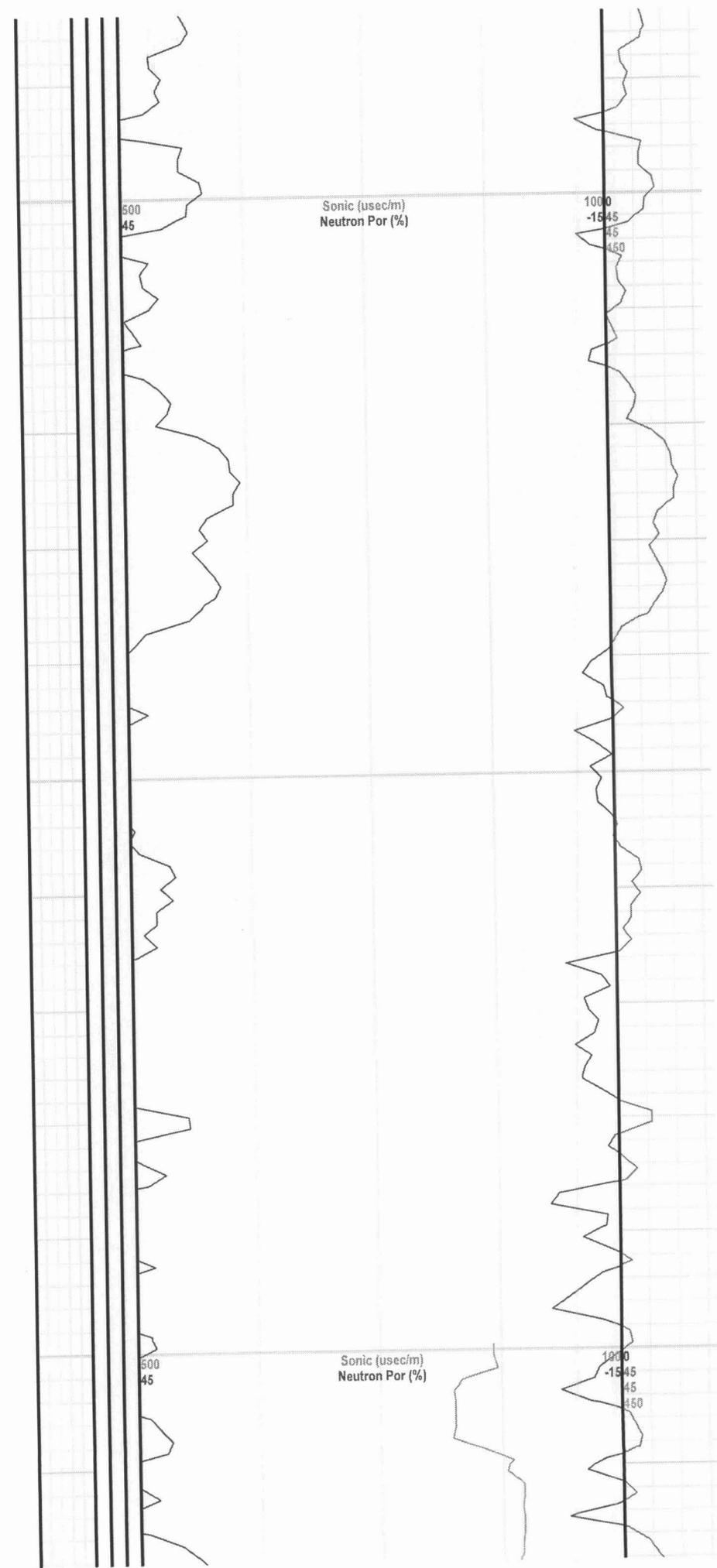
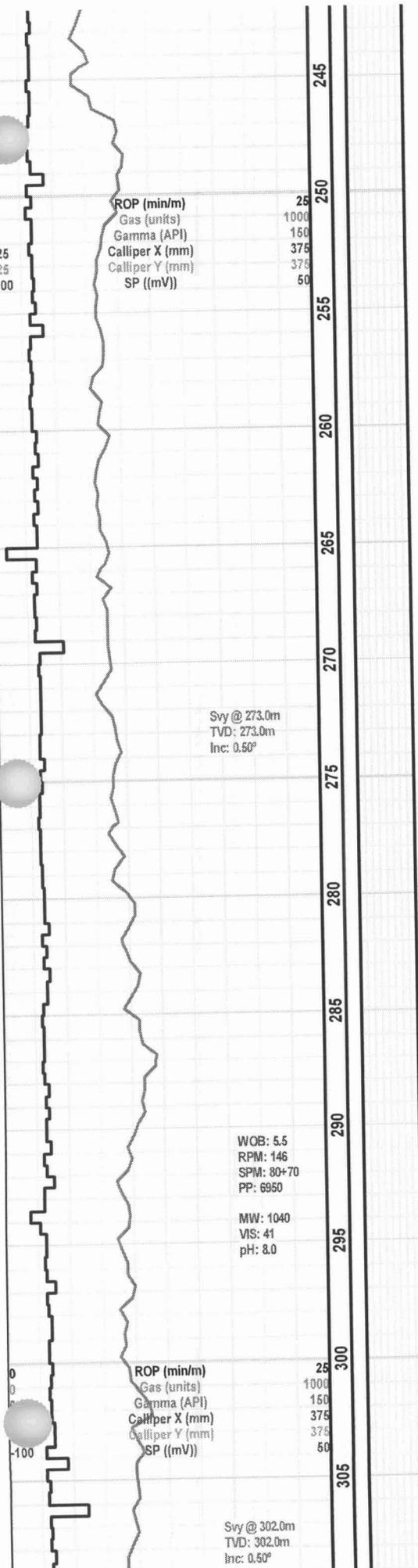
Feb 06, 2010
.....
Feb 07, 2010

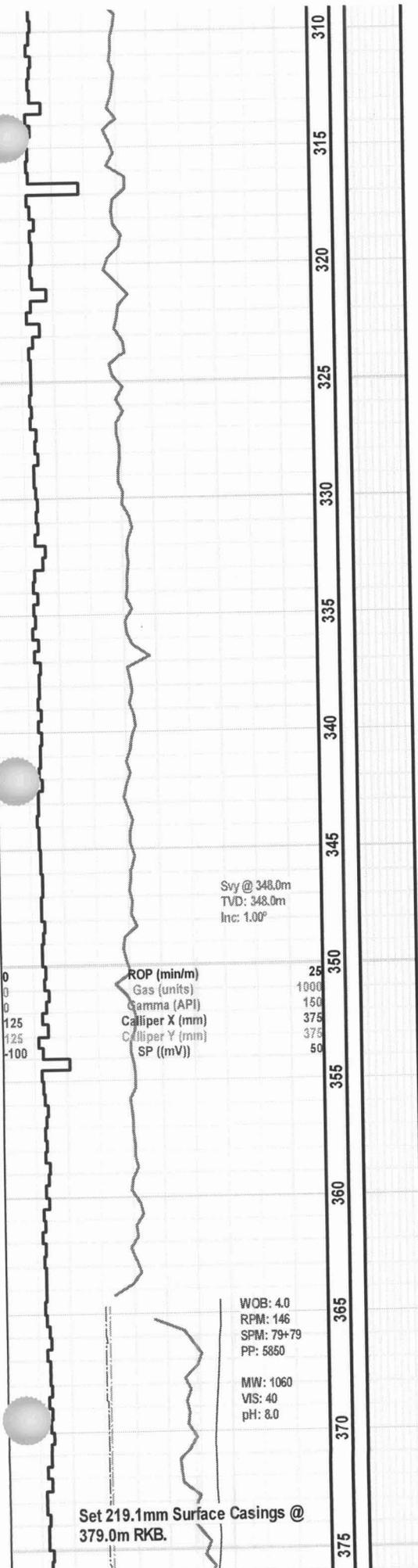
17
180
185
190
195
200
205
210
215
220
225
230
235
240

500
45

Sonic (usec/m)
Neutron Por (%)

1000
-1545
45
450



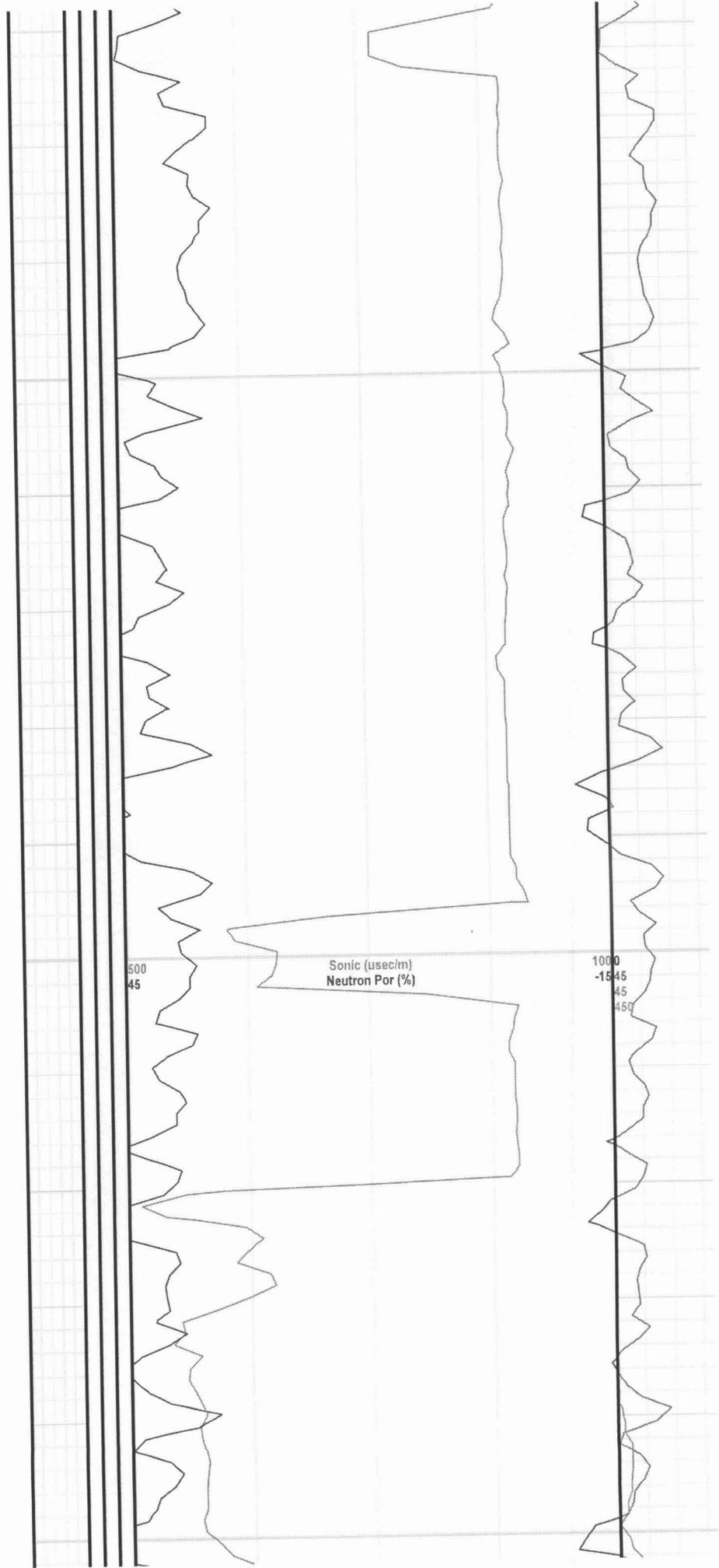


Svy @ 348.0m
 TVD: 348.0m
 Inc: 1.00°

WOB: 4.0
 RPM: 146
 SPM: 79+79
 PP: 5850

MW: 1060
 VIS: 40
 pH: 8.0

Set 219.1mm Surface Casings @
 379.0m RKB.



tal Gas Detector Hooked Up F/379m.

Feb 07, 2010
Feb 09, 2010

Drilling W/Floc Water Mud.

Bit# 2
200mm, Reed
DSX416M-A3PDC
Sr.No.114178
12.0x6 Jets
In: 379m
Out: 1420m
Bit Hrs: 64.75

WOB: 1.0
RPM: 101
SPM: 83
PP: 3000

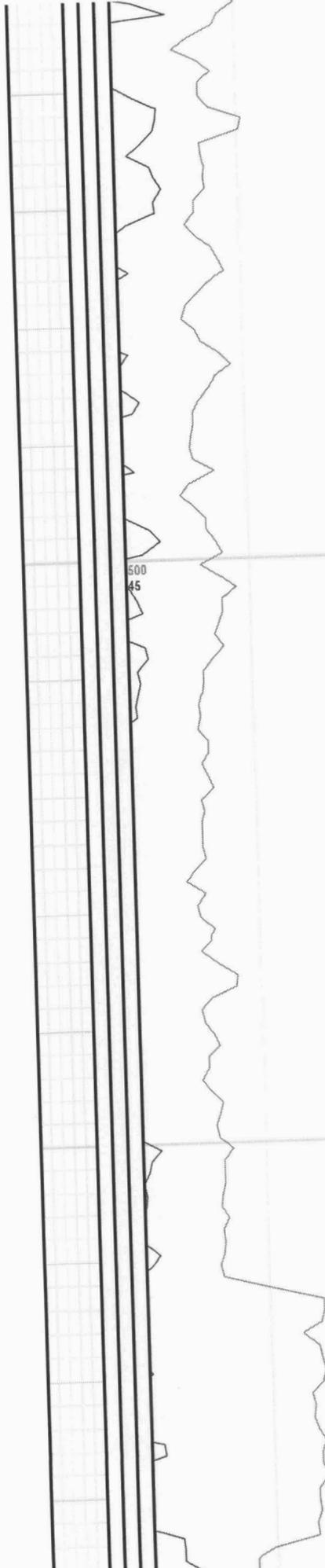
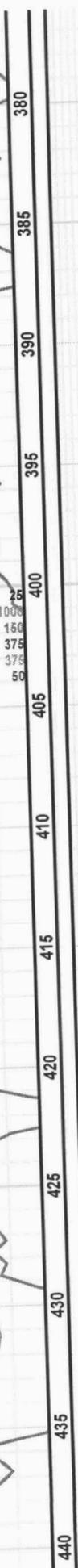
MW: 1010
VIS: 28
pH: 11.5

Svy @ 379.0m
TVD: 379.0m
Inc: 0.50°

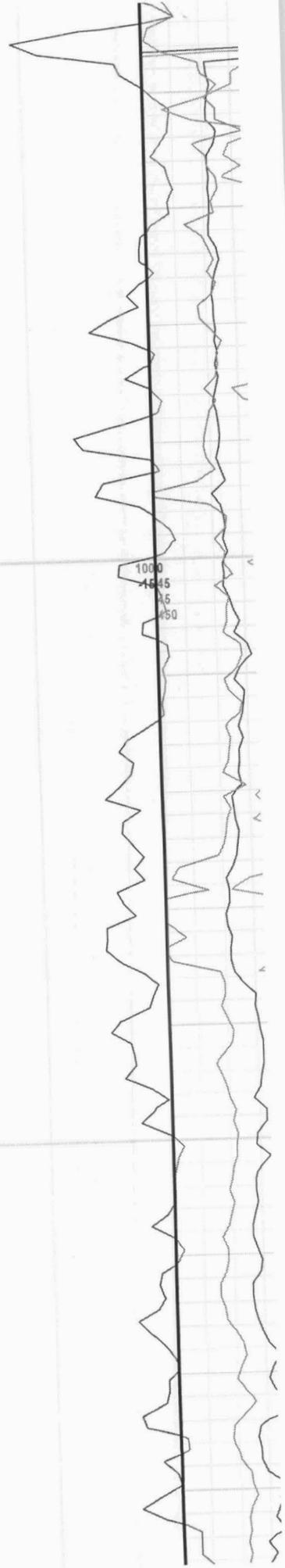
ROP (min/m) 25
Gas (cc/st) 1000
Gamma (API) 150
Calliper X (mm) 375
Calliper Y (mm) 378
SP (mV) 50

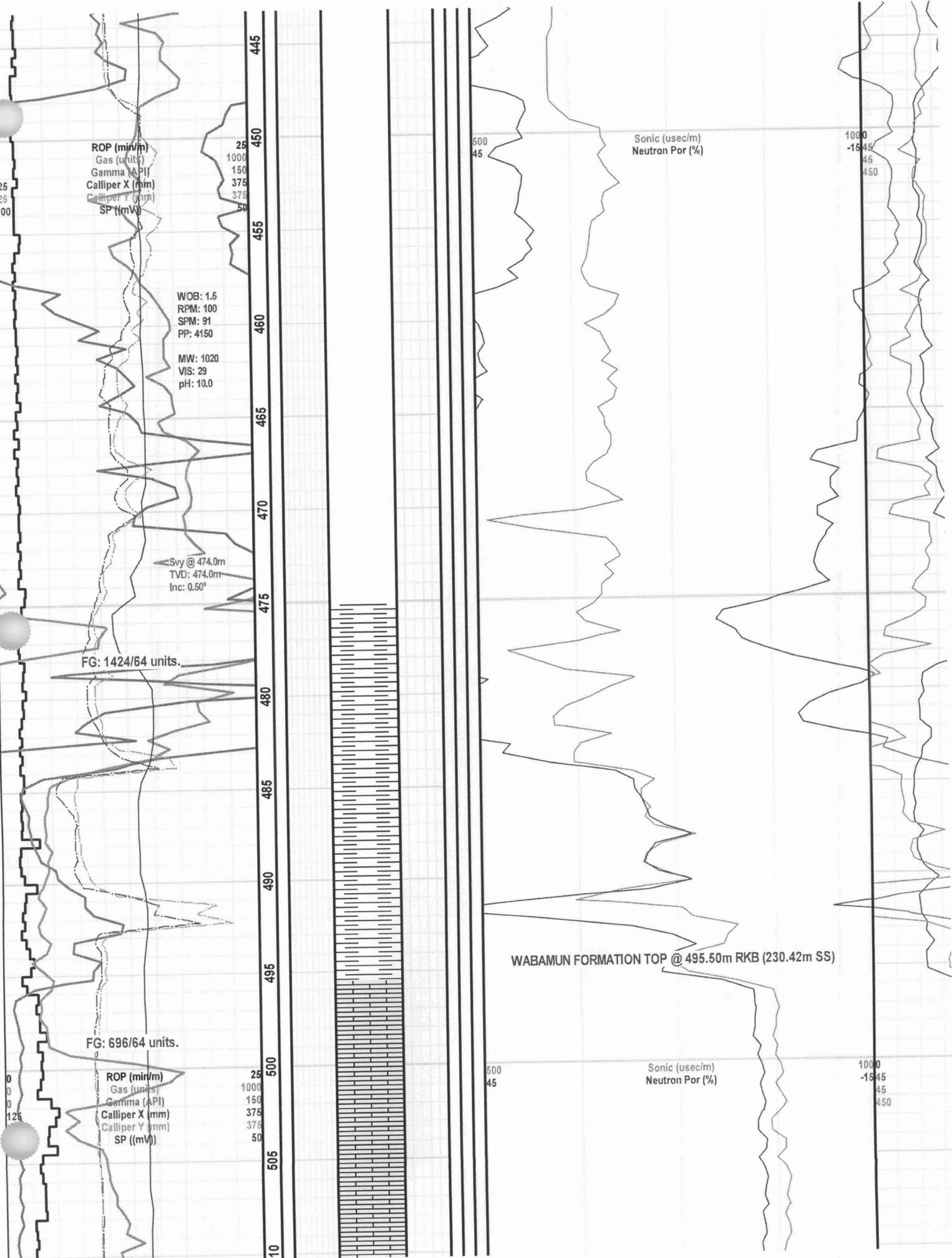
FG: 519/64 units.

FG: 862/64 units.



Sonic (usec/m)
Neutron Por (%)





ROP (min/m)
 Gas (units)
 Gamma (API)
 Calliper X (mm)
 Calliper Y (mm)
 SP (mV)

WOB: 1.5
 RPM: 100
 SPM: 91
 PP: 4150

 MW: 1020
 VIS: 29
 pH: 10.0

Svy @ 474.0m
 TVD: 474.0m
 Inc: 0.50°

FG: 1424/64 units.

FG: 696/64 units.

ROP (min/m)
 Gas (units)
 Gamma (API)
 Calliper X (mm)
 Calliper Y (mm)
 SP (mV)

WABAMUN FORMATION TOP @ 495.50m RKB (230.42m SS)

Sonic (usec/m)
 Neutron Por (%)

Sonic (usec/m)
 Neutron Por (%)

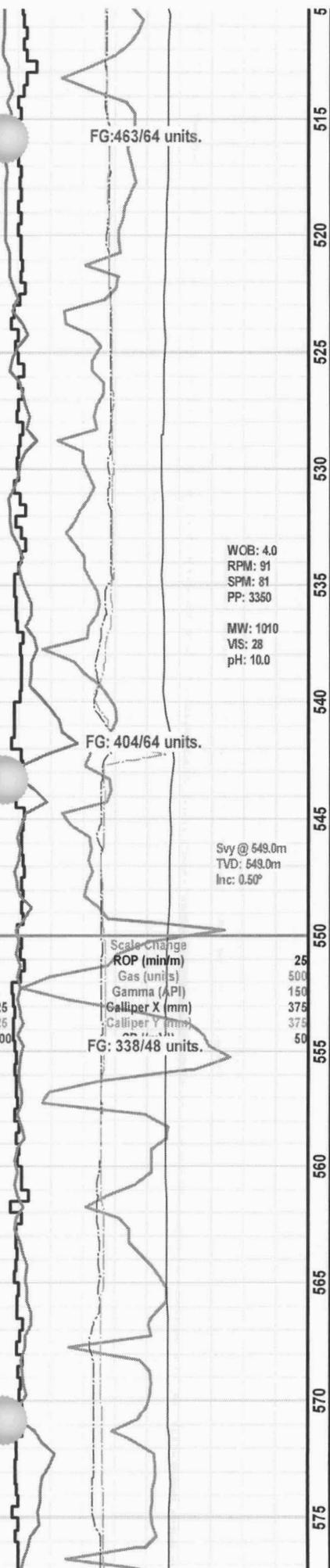
445
450
455
460
465
470
475
480
485
490
495
500
505

500
45

1000
-15
45
450

500
45

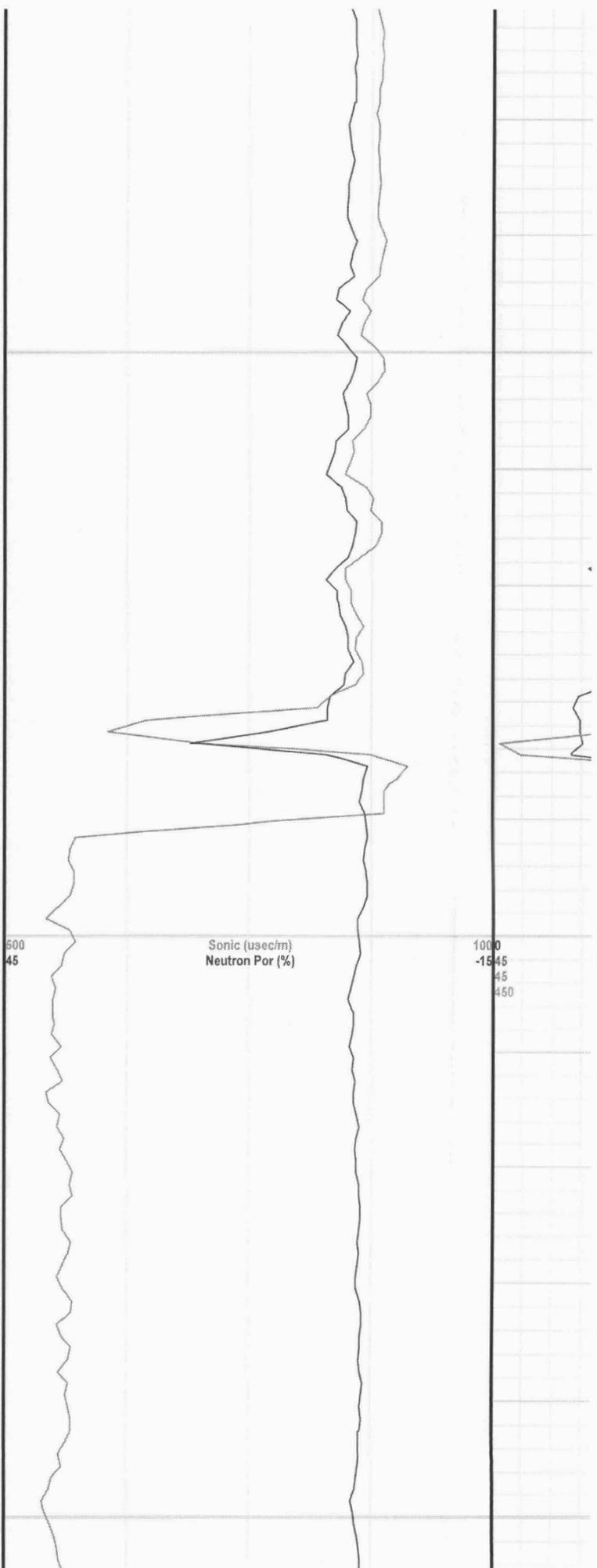
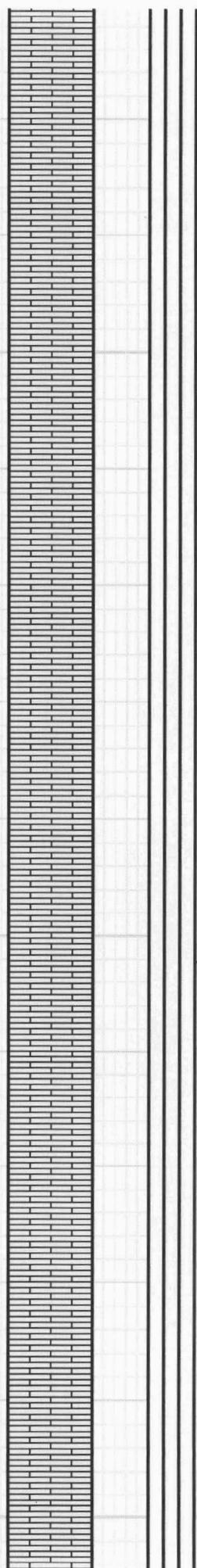
1000
-15
45
450

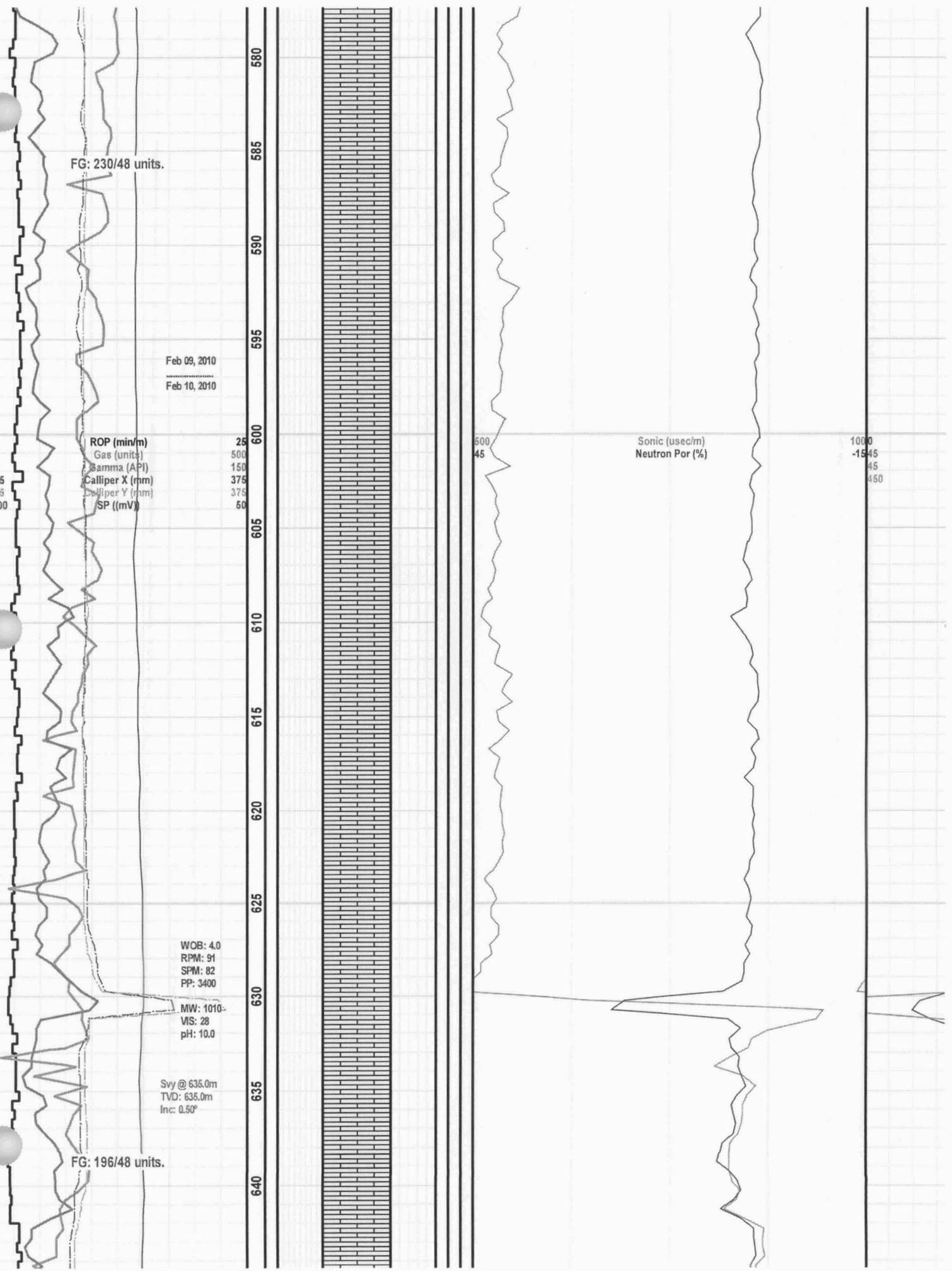


WOB: 4.0
 RPM: 91
 SPM: 81
 PP: 3360

MW: 1010
 VIS: 28
 pH: 10.0

Svy @ 549.0m
 TVD: 549.0m
 Inc: 0.50°





FG: 230/48 units.

Feb 09, 2010
 Feb 10, 2010

ROP (min/m) 25
 Gas (units) 500
 Gamma (API) 150
 Calliper X (mm) 375
 Calliper Y (mm) 375
 SP ((mV)) 50

Sonic (usec/m) 600
 Neutron Por (%) 45

1000
 -1545
 45
 450

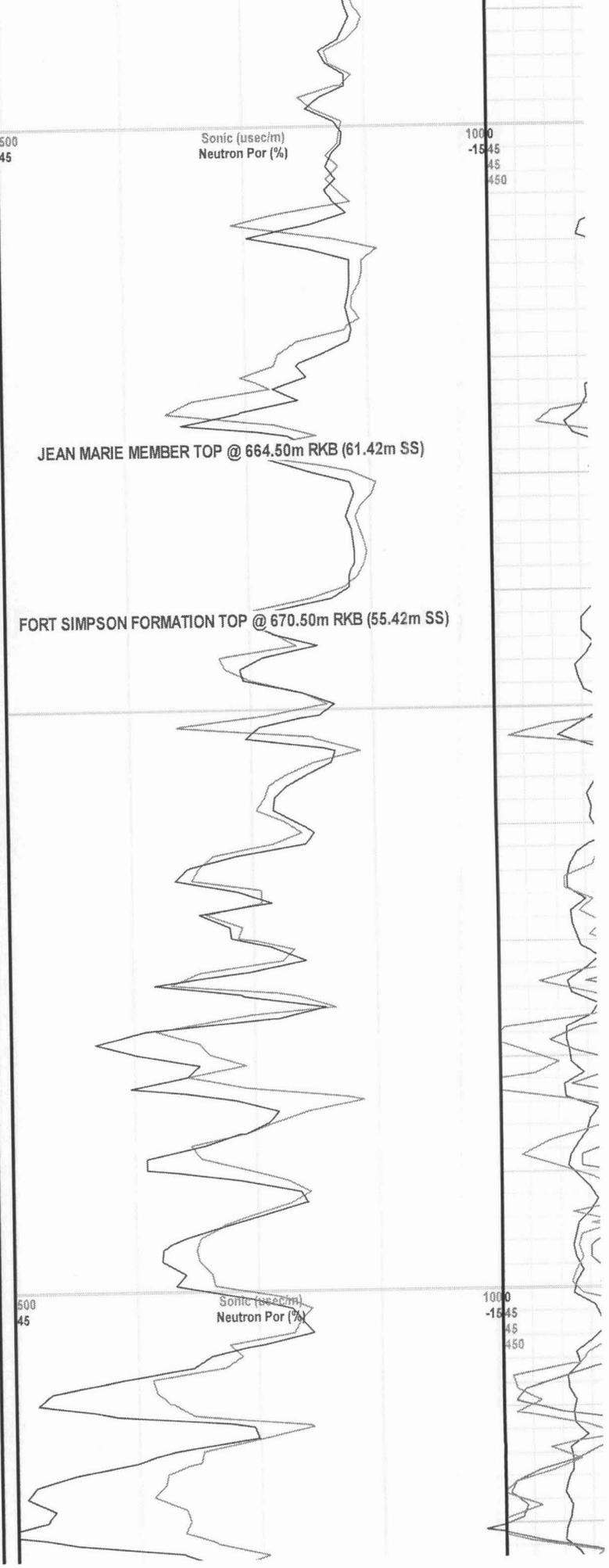
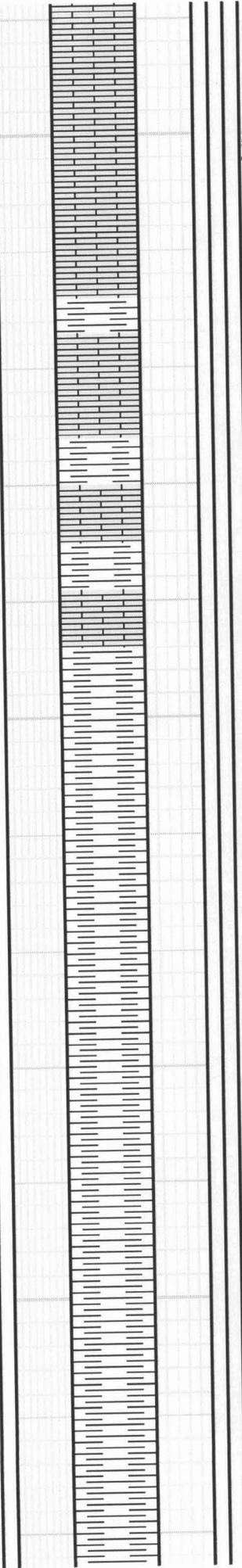
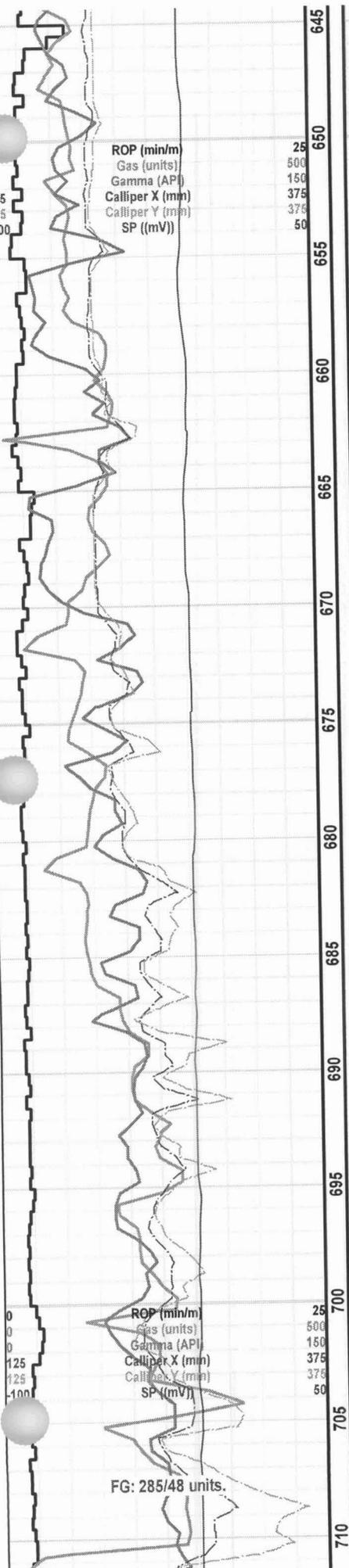
WOB: 4.0
 RPM: 91
 SPM: 82
 PP: 3400

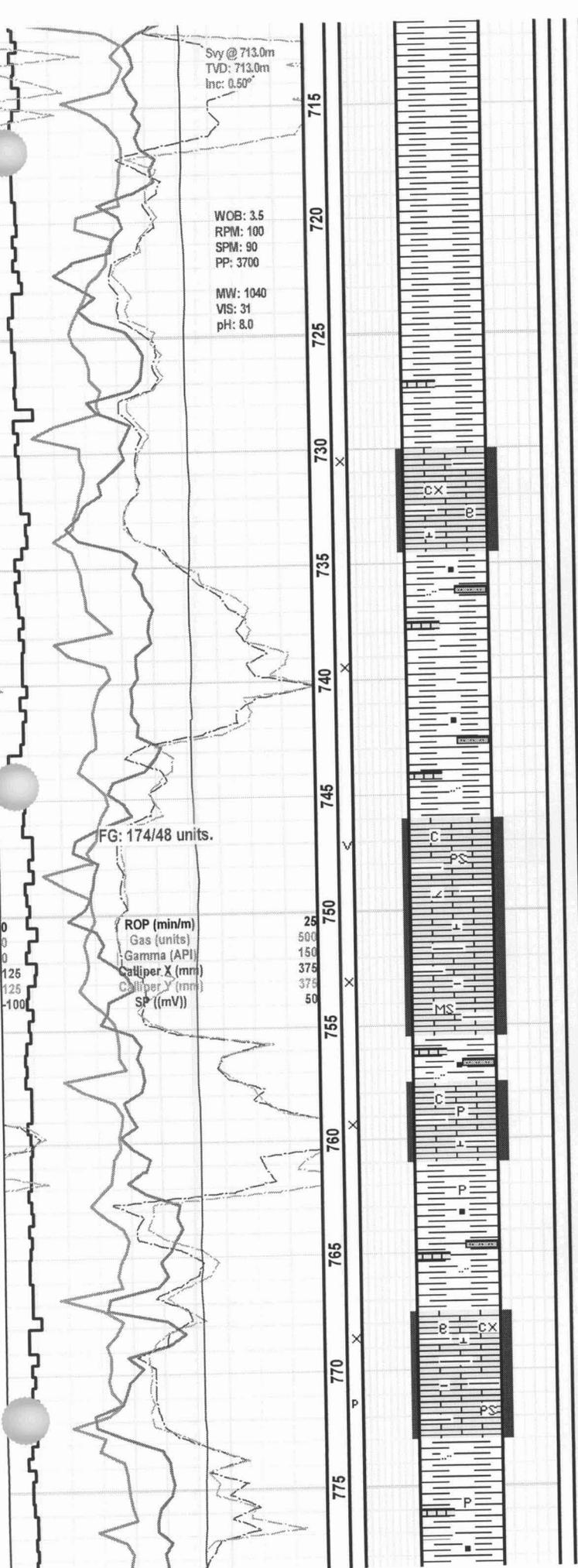
MW: 1010
 VIS: 28
 pH: 10.0

Svy @ 635.0m
 TVD: 635.0m
 Inc: 0.50°

FG: 196/48 units.

580
585
590
595
600
605
610
615
620
625
630
635
640





Samples Collected & Descriptions Made From 735.0m to 980.0m RKB
Covering Entire Twin Falls Formation.

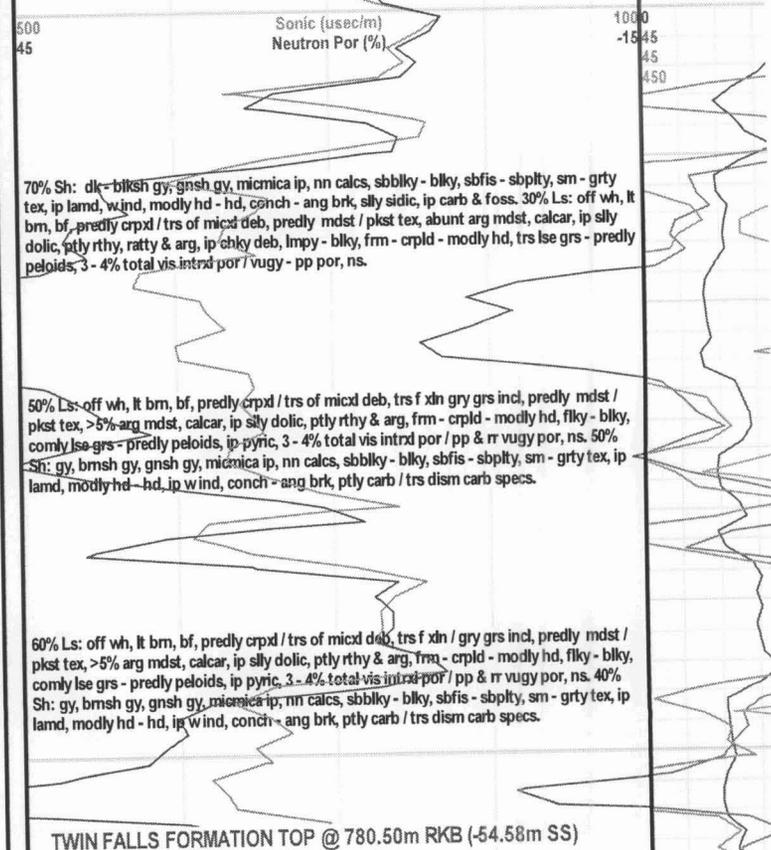
60% Ls: off wh, lt brn, bf, predly crpxd / trs of micxd deb, predly mdst / pkst tex, trs arg mdst, calcar, ip sily dolio, pty rthy & arg, lmpy - blkly, frm - crpld - modly hd, trs lse grs - predly peloids, 3 - 4% total vis intrd por / vugy por, ns. 40% Sh: dk - blksh gy, gnsh gy, micmica ip, nn calcs, sbblky - blkly, sbfis - sbpity, sm - grty tex, ip lamd, w ind, modly hd - hd, conch - ang brk, sily sidic, ip carb & foss.

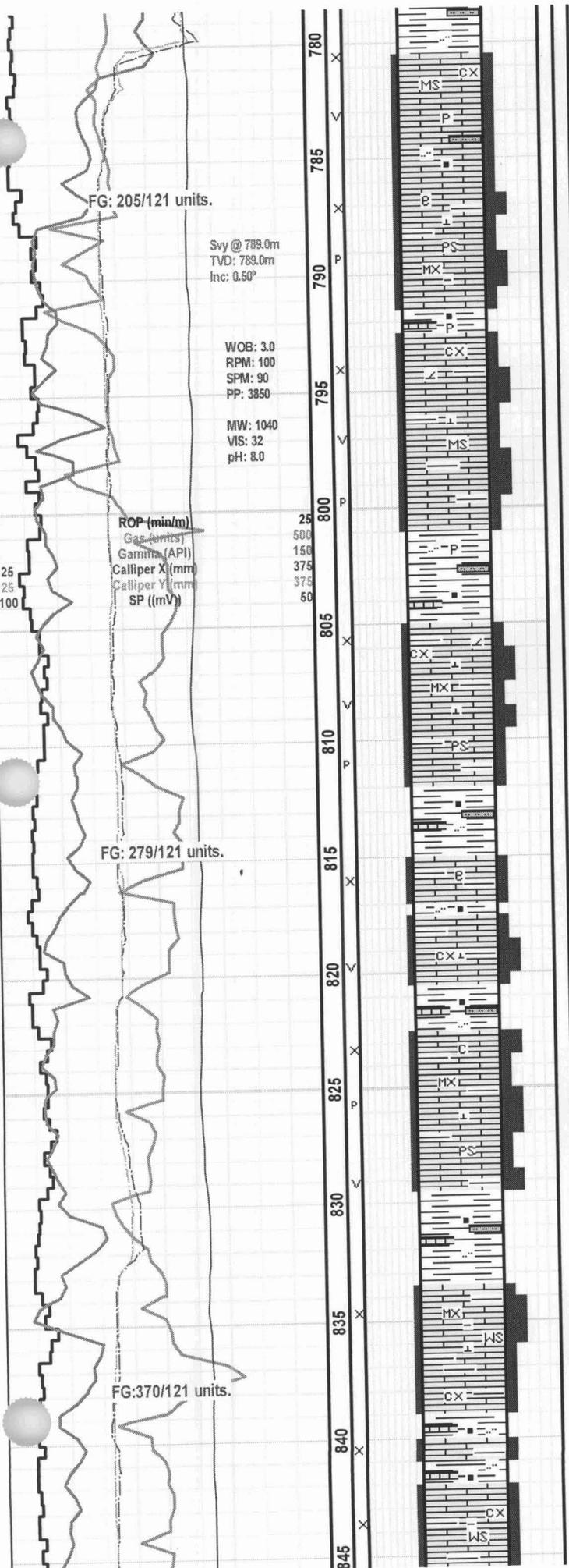
60% Sh: dk - blksh gy, gnsh gy, micmica ip, nn calcs, sbblky - blkly, sbfis - sbpity, sm - grty tex, ip lamd, w ind, modly hd - hd, conch - ang brk, sily sidic, ip carb & foss. 40% Ls: off wh, lt brn, bf, predly crpxd / trs of micxd deb, predly mdst / pkst tex, abunt arg mdst, calcar, ip sily dolio, pty rthy & arg, ip chky deb, lmpy - blkly, frm - crpld - modly hd, trs lse grs - predly peloids, 3 - 4% total vis intrd por / vugy - pp por, ns.

70% Sh: dk - blksh gy, gnsh gy, micmica ip, nn calcs, sbblky - blkly, sbfis - sbpity, sm - grty tex, ip lamd, w ind, modly hd - hd, conch - ang brk, sily sidic, ip carb & foss. 30% Ls: off wh, lt brn, bf, predly crpxd / trs of micxd deb, predly mdst / pkst tex, abunt arg mdst, calcar, ip sily dolio, pty rthy, ratty & arg, ip chky deb, lmpy - blkly, frm - crpld - modly hd, trs lse grs - predly peloids, 3 - 4% total vis intrd por / vugy - pp por, ns.

50% Ls: off wh, lt brn, bf, predly crpxd / trs of micxd deb, trs f xh gry grs incl, predly mdst / pkst tex, >5% arg mdst, calcar, ip sily dolio, pty rthy & arg, frm - crpld - modly hd, flky - blkly, comly lse grs - predly peloids, ip pyric, 3 - 4% total vis intrd por / pp & rr vugy por, ns. 50% Sh: gy, brnsh gy, gnsh gy, micmica ip, nn calcs, sbblky - blkly, sbfis - sbpity, sm - grty tex, ip lamd, modly hd - hd, ip w ind, conch - ang brk, pty carb / trs dism carb specs.

60% Ls: off wh, lt brn, bf, predly crpxd / trs of micxd deb, trs f xh gry grs incl, predly mdst / pkst tex, >5% arg mdst, calcar, ip sily dolio, pty rthy & arg, frm - crpld - modly hd, flky - blkly, comly lse grs - predly peloids, ip pyric, 3 - 4% total vis intrd por / pp & rr vugy por, ns. 40% Sh: gy, brnsh gy, gnsh gy, micmica ip, nn calcs, sbblky - blkly, sbfis - sbpity, sm - grty tex, ip lamd, modly hd - hd, ip w ind, conch - ang brk, pty carb / trs dism carb specs.





FG: 205/121 units.

Svy @ 789.0m
TVD: 789.0m
Inc: 0.50°

WOB: 3.0
RPM: 100
SPM: 90
PP: 3850

MW: 1040
VIS: 32
pH: 8.0

ROP (min/m)
Gas (units)
Gamma (API)
Calliper X (mm)
Calliper Y (mm)
SP (mV)

FG: 279/121 units.

FG: 370/121 units.

80% Ls: off wh, lt brn, bf, predly crpxd / trs of micxd deb, occlly f xln gry grs incl, predly mdst / pkst tex, trs arg mdst, calcar, ip sily dolic, pty rthy & arg, frm - modly hd, flky - blkly, comly lse grs - predly peloids, ip pyric, 3 - 4% total vis intrd por / pp & rr vugy por, ns. 20% Sh: gy - bmsh gy, gnsh gy, micmica ip, nn calcs, sbblky - blkly, sbfis - sbply, sm - grty tex, ip lamd, modly hd - hd, conch - ang brk, pty carb / trs dism carb specs, pty dull rthy tex.

100% Ls: off wh, lt brn, bf, predly crpxd / trs of micxd deb, occlly f xln gry grs incl, predly mdst / pkst tex, trs arg mdst, sily calcic, ip sily dolic, pty rthy & arg, frm - modly hd, flky - blkly, comly lse grs - predly peloids, ip pyric / trs lse pyr grs, 3 - 4% total vis intrd por / pp & rr vugy por, ns. <10% bmsh - gnsh gy, dk gy, nn - sily calcs, sm - grty tex, modly hd - hd, wind, conch - ang brk, ip carb.

100% Ls: off wh, lt brn, bf, predly crpxd / trs of micxd deb, occlly f xln gry grs incl, predly mdst / pkst tex, trs arg mdst, sily calcic, ip sily dolic, pty rthy & arg, frm - modly hd, flky - blkly, comly lse grs - predly peloids, ip pyric / trs lse pyr grs, 3 - 4% total vis intrd por / pp & rr vugy por, ns. <10% bmsh - gnsh gy, dk gy, nn - sily calcs, sm - grty tex, modly hd - hd, wind, conch - ang brk, ip carb.

500 Sonic (usec/m) 1000
45 Neutron Por (%) -15 45 45 150

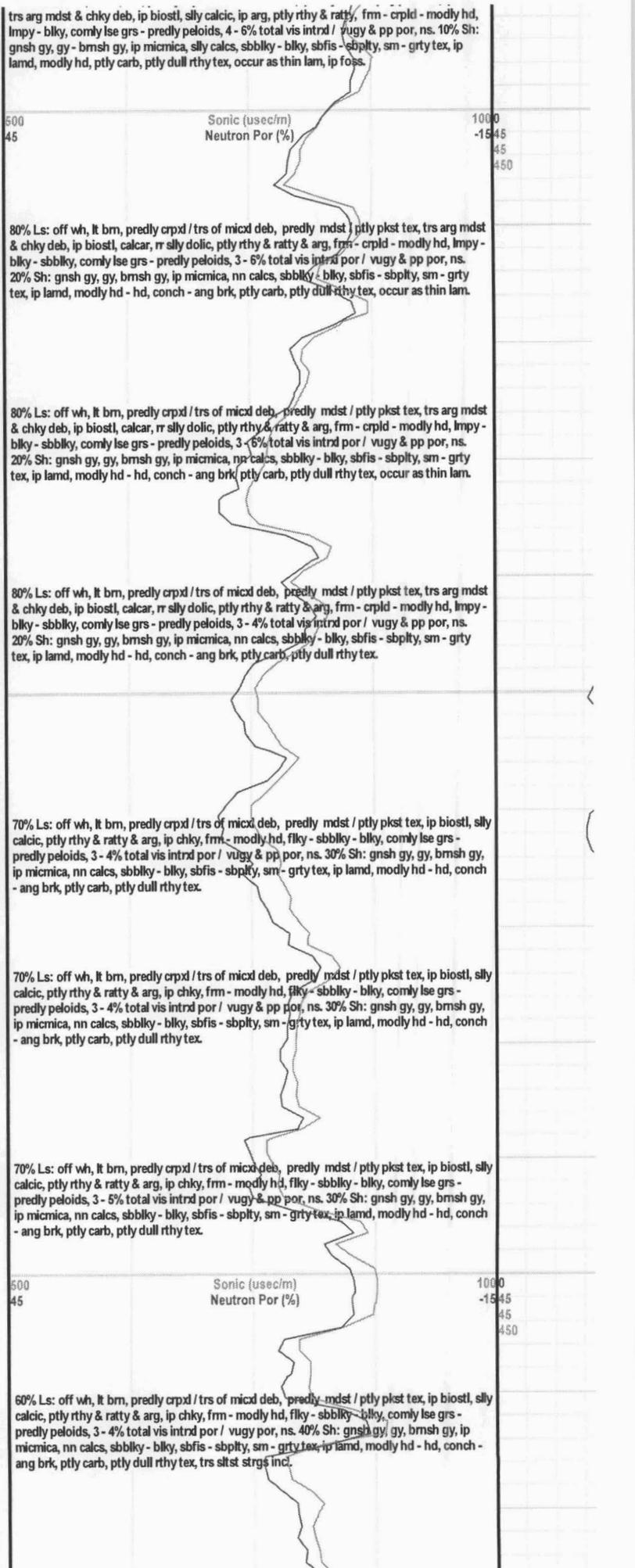
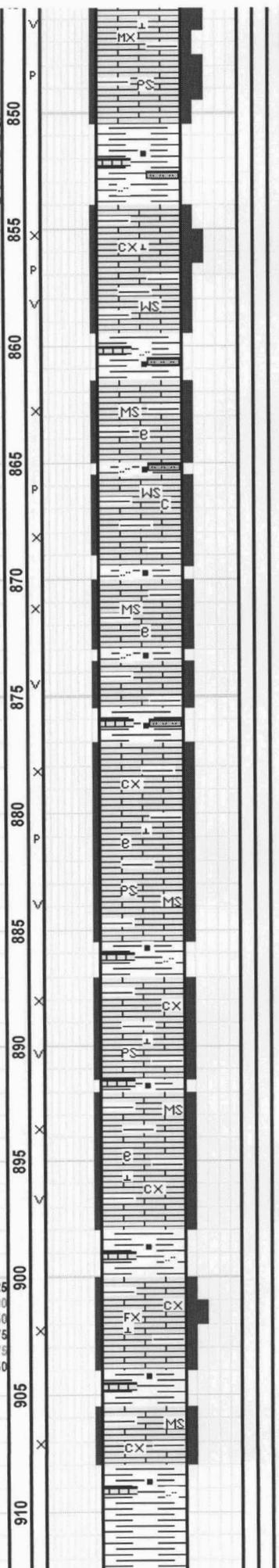
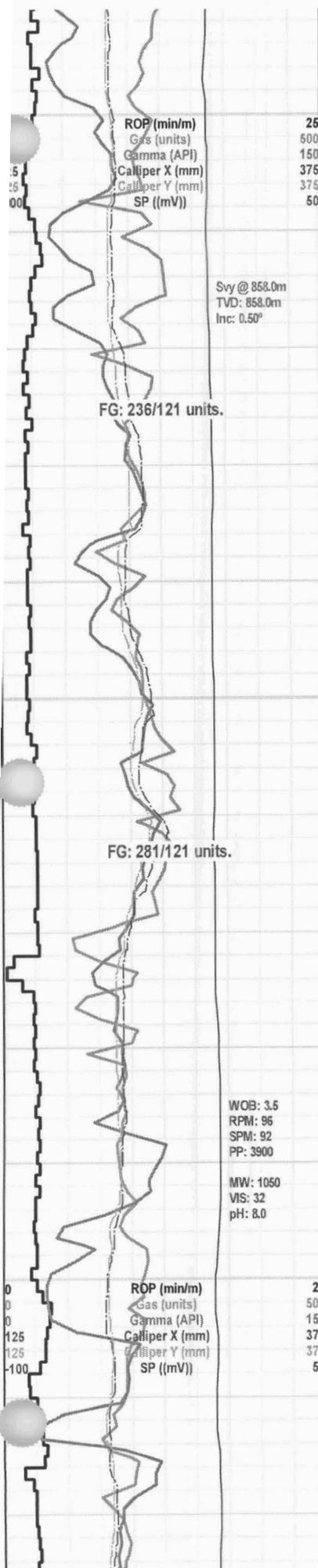
100% Ls: off wh, lt brn, bf, predly crpxd / trs of micxd deb, occlly f xln gry grs incl, predly mdst / pkst tex, trs arg mdst, sily calcic, ip sily dolic, pty rthy & arg, pty chky, frm - modly hd, flky - blkly, comly lse grs - predly peloids, ip pyric / trs lse pyr grs, 3 - 4% total vis intrd por / pp & rr vugy por, ns. <10% bmsh - gnsh gy, dk gy, nn - sily calcs, sm - grty tex, modly hd - hd, wind, conch - ang brk, ip carb.

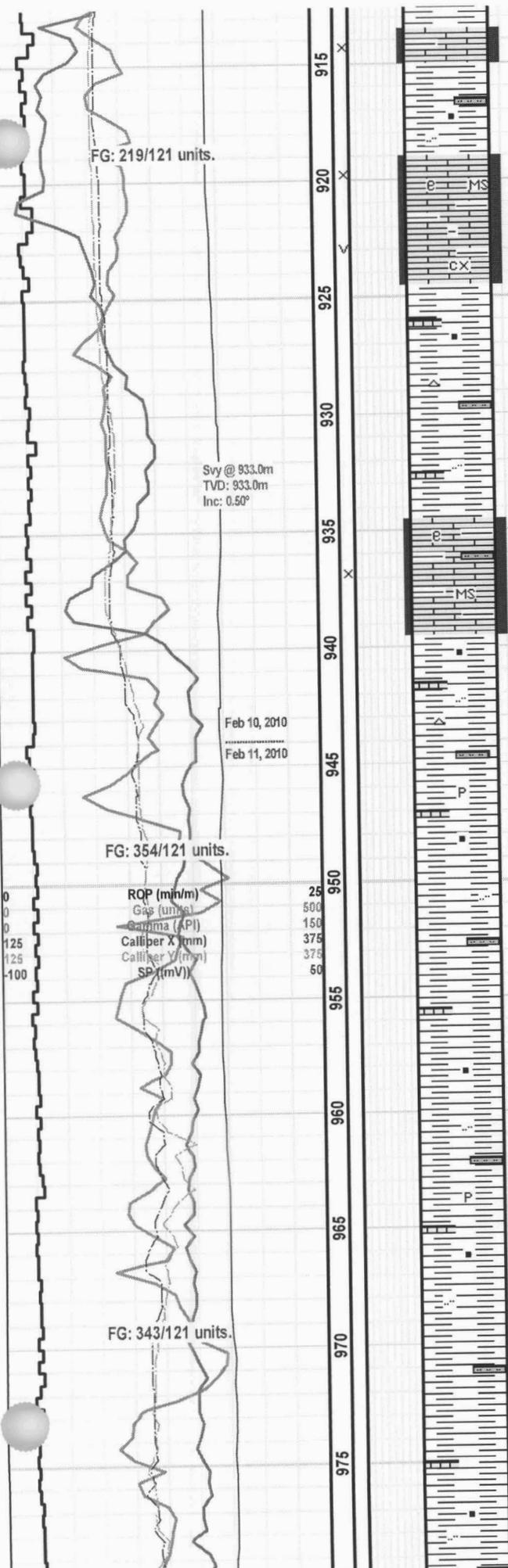
80% Ls: off wh, lt brn, tan, predly crpxd / trs of micxd deb, ip v f xln & gry, predly mdst / pty pkst tex, trs arg mdst & chky deb, ip biostl, calcar, ip arg & dolic, pty rthy & ratty, frm - crpld - modly hd, lmpy - blkly, comly lse grs - predly peloids, 3 - 5% total vis intrd / vugy & pp por, ns. 20% Sh: gnsh gy, gy - bmsh gy, ip micmica, sily calcs, sbblky - blkly, sbfis - sbply, sm - grty tex, ip lamd, modly hd, pty carb, pty dull rthy tex, occur as thin lam, ip foss.

80% Ls: off wh, lt brn, tan, predly crpxd / trs of micxd deb, ip v f xln & gry, predly mdst / pty pkst tex, trs arg mdst & chky deb, ip biostl, sily calcic, ip arg & dolic, pty rthy & ratty, frm - crpld - modly hd, lmpy - blkly, comly lse grs - predly peloids, 3 - 5% total vis intrd / vugy & pp por, ns. 20% Sh: gnsh gy, gy - bmsh gy, ip micmica, sily calcs, sbblky - blkly, sbfis - sbply, sm - grty tex, ip lamd, modly hd, pty carb, pty dull rthy tex, occur as thin lam, ip foss.

90% Ls: off wh, lt brn, tan, predly crpxd / trs of micxd deb, predly mdst / pty pkst tex, ip suc / trs arg mdst & chky deb, ip biostl, sily calcic, ip arg, pty rthy & ratty, frm - crpld - modly hd, lmpy - blkly, comly lse grs - predly peloids, 4 - 6% total vis intrd / vugy & pp por, ns. 10% Sh: gnsh gy, gy - bmsh gy, ip micmica, sily calcs, sbblky - blkly, sbfis - sbply, sm - grty tex, ip lamd, modly hd, pty carb, pty dull rthy tex, occur as thin lam, ip foss.

90% Ls: off wh, lt brn, tan, predly crpxd / trs of micxd deb, predly mdst / pty pkst tex, ip suc /





50% Ls: off wh, lt brn, predly crpxd / trs of micxd deb, predly mdst / pty pkst tex, ip biostl, sily calcic, pty rthy & ratty & arg, ip chky, frm - modly hd, fily - sbblky - blkly, comly lse grs - predly peloids, 3 - 4% total vis intrd por / vugy por, ns. 50% Sh: gnsh gy, gy, bmsh gy, ip micmica, nn calcs, sbblky - blkly, sbflis - sbply, sm - grty tex, ip lamd, modly hd - hd, conch - ang brk, pty carb, pty dull rthy tex, trs sltst strgs incl.

70% Sh: gnsh gy, gy, bmsh gy, micmica, genly sily - modly sily, mic lamd on dkr & hdr fraction, calcs, dns, mas, amor - blkly, fis - pty, sm - grty tex, wind, pty dull rthy, farm - modly hd, ip thinly lamd, sily sidic, pty carb, >5% sltst strgs incl, trs cht frags, ip foss. 30% Ls: off wh, lt brn, tan, predly crpxd / trs of micxd deb, predly mdst / pty pkst tex, ip biostl, sily dolic, trs arg mdst & chky deb, pty rthy & arg, 3% total vis intrd por / vugy por, ns.

70% Sh: gnsh gy, gy, bmsh gy, micmica, genly sily - modly sily, mic lamd on dkr & hdr fraction, calcs, dns, mas, amor - blkly, fis - pty, sm - grty tex, wind, pty dull rthy, farm - modly hd, ip thinly lamd, sily sidic, pty carb, >5% sltst strgs incl, trs cht frags, ip foss. 30% Ls: off wh, lt brn, tan, predly crpxd / trs of micxd deb, predly mdst / pty pkst tex, ip biostl, sily dolic, trs arg mdst & chky deb, pty rthy & arg, 3% total vis intrd por / vugy por, ns.

HAY RIVER FORMATION TOP @ 939.5m RKB (-213.58m SS)

90% Sh: gnsh gy, gy, bmsh gy, micmica, genly sily - modly sily, mic lamd on dkr & hdr fraction, calcs, dns, mas, amor - blkly, fis - pty, sm - grty tex, wind, pty dull rthy, farm - modly hd, ip thinly lamd, sily sidic, pty carb, >5% sltst strgs incl, ip foss. 10% Ls: off wh, lt brn, tan, predly crpxd / trs of micxd deb, predly mdst / pty pkst tex, ip biostl, sily dolic, occur as thin lam, trs arg mdst & chky deb, pty rthy & arg, max 3% total vis intrd por / vugy por, ns.

500	Sonic (usec/m)	1000
45	Neutron Por (%)	-1545
		45
		450

100% Sh: gnsh gy, gy, bmsh gy, micmica, genly sily - modly sily, mic lamd on dkr & hdr fraction, calcs, dns, mas, amor - blkly, fis - pty, sm - grty tex, wind, pty dull rthy, farm - modly hd, ip thinly lamd, sily sidic, pty carb, >5% sltst strgs incl, ip foss. <10% off wh, lt brn, predly mdst / pty pkst tex, ip biostl ls.

100% Sh: gnsh gy, gy, bmsh gy, micmica, genly sily - modly sily, mic lamd on dkr & hdr fraction, calcs, dns, mas, amor - blkly, fis - pty, sm - grty tex, wind, ip dull rthy, farm - modly hd, ip thinly lamd, sily sidic, pty carb, trs of pyr grs, >5% sltst strgs incl, ip foss. >5% off wh, lt brn, predly mdst / pky tex, ip biostl ls.

100% Sh: gnsh gy, gy, bmsh gy, micmica, genly sily - modly sily, mic lamd on dkr & hdr fraction, calcs, dns, mas, amor - blkly, fis - pty, sm - grty tex, wind, ip dull rthy, farm - modly hd, ip thinly lamd, sily sidic, pty carb, r pyr / trs lse pyr grs, >5% sltst strgs incl, ip foss. >5% off wh, lt brn, predly mdst / pky tex, ip biostl ls.

WOB: 2.0
RPM: 100
SPM: 91
PP: 4300
MW: 1030
VIS: 30
pH: 9.0

FG: 312/121 units.

ROP (min/m)
Gas (units)
Gamma (API)
Calliper X (mm)
Calliper Y (mm)
SP (mV)

25
500
150
375
375
50

Sv @ 1010.0m
TVD: 1010.0m
Inc: 0.50°

FG: 316/121 units.

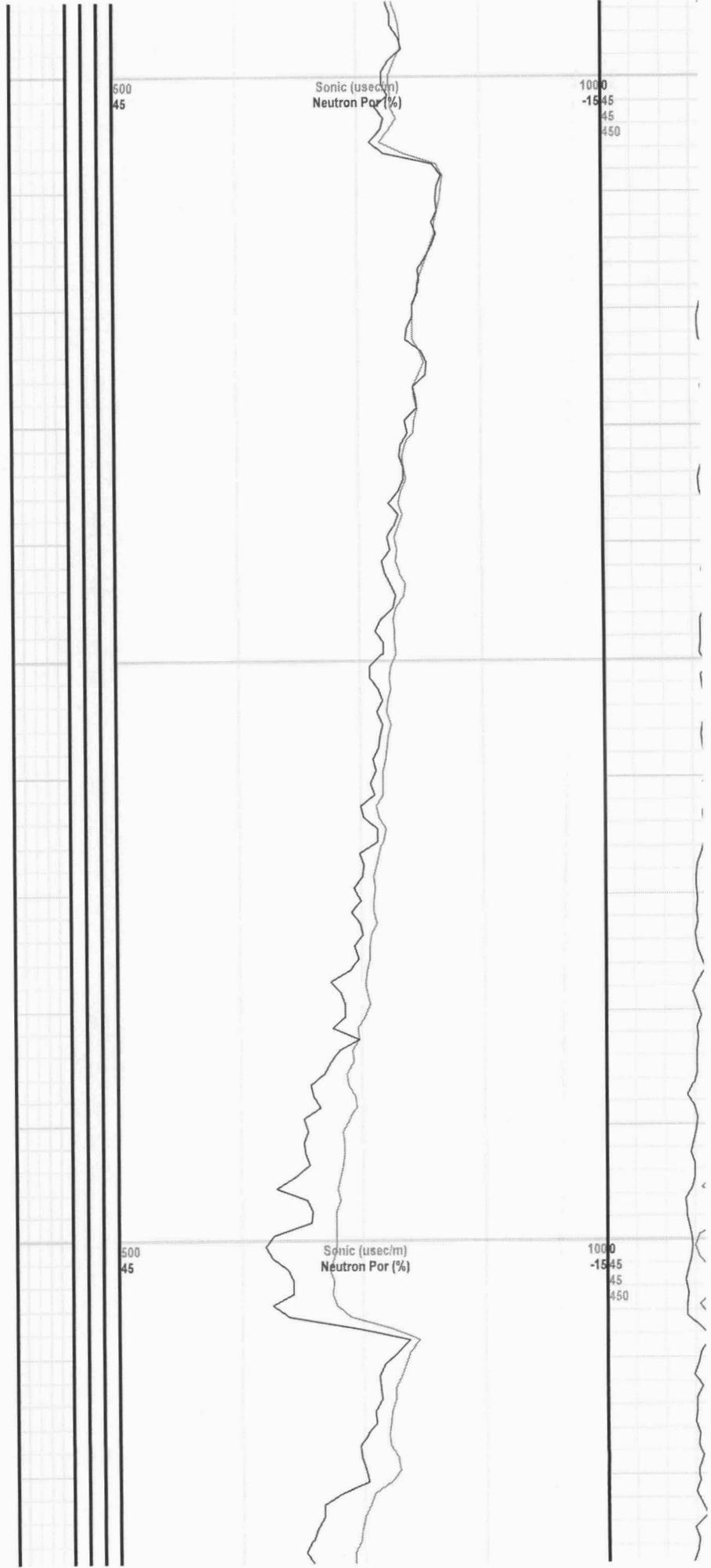
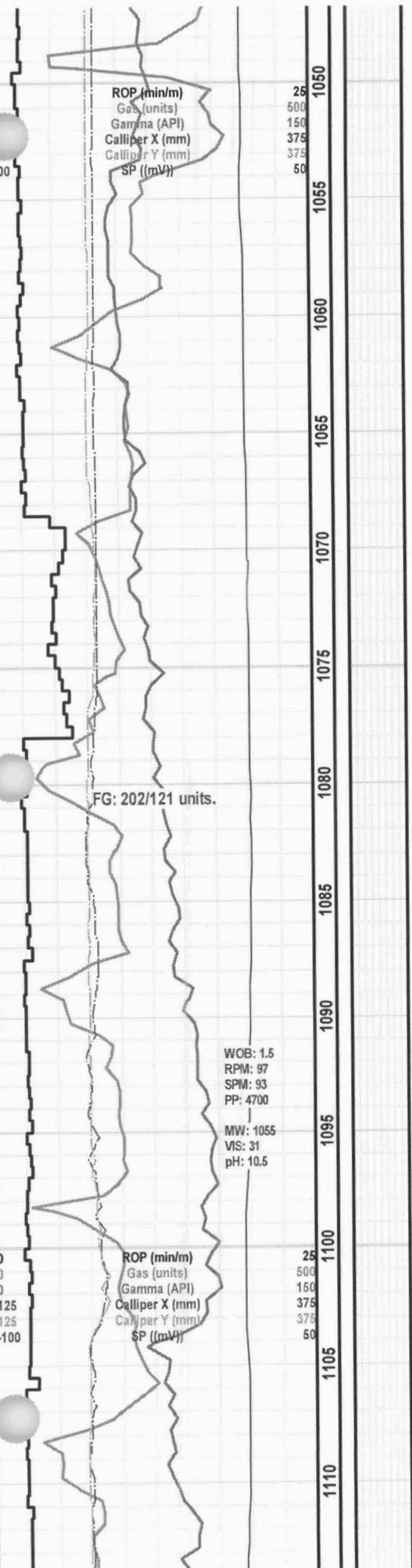
FG: 361/121 units.

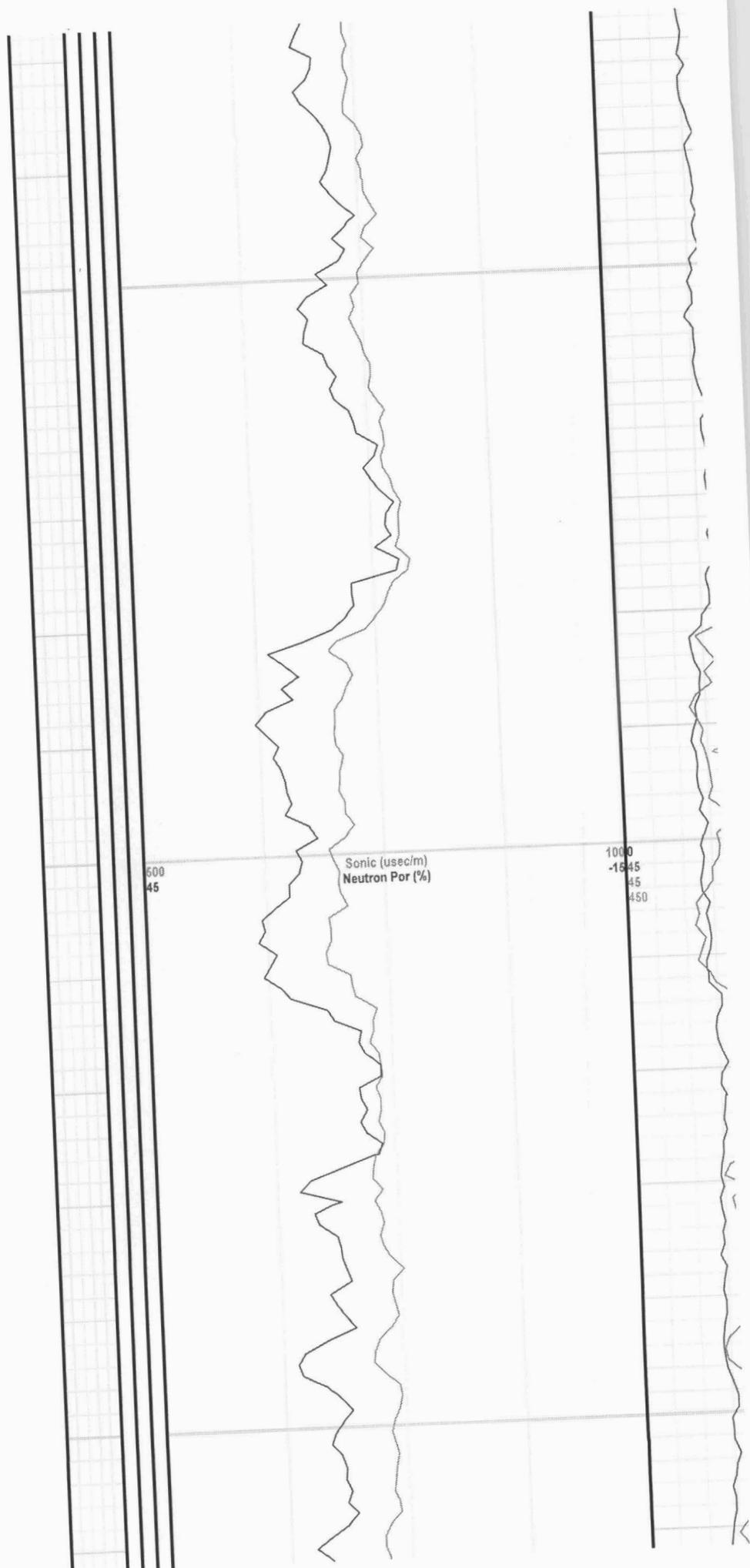
980
985
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1045

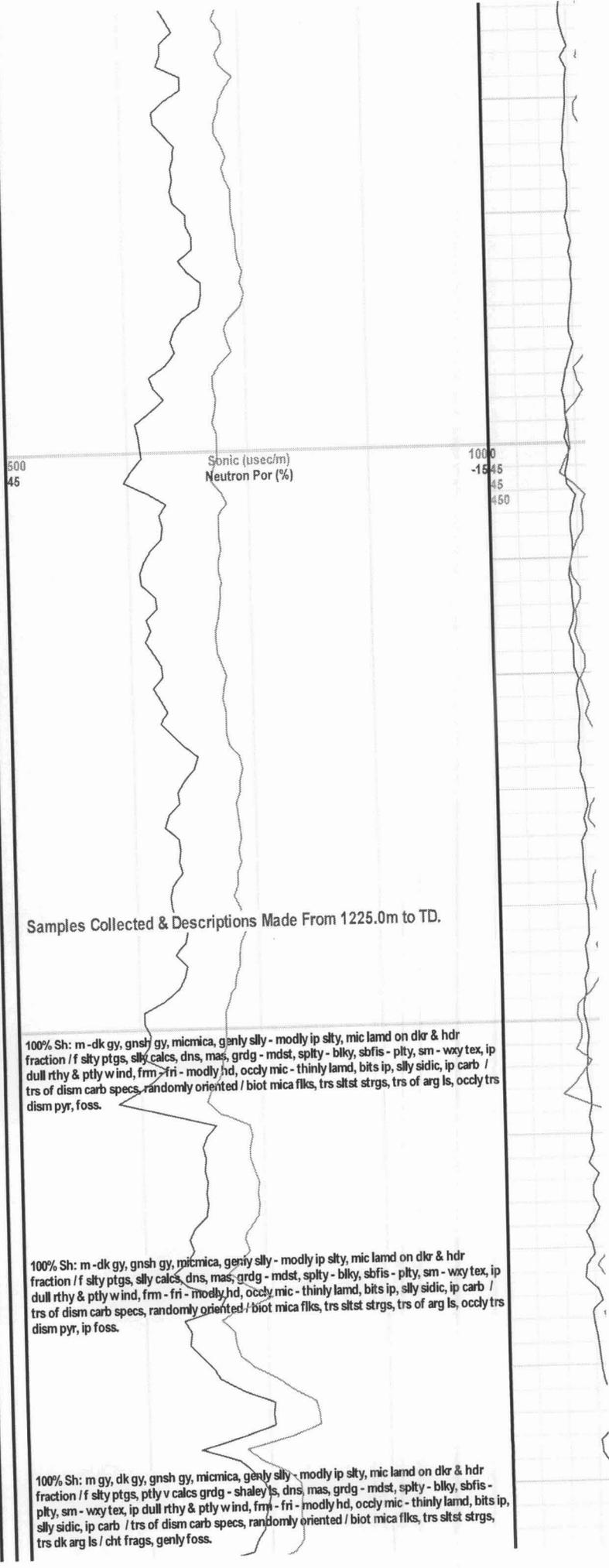
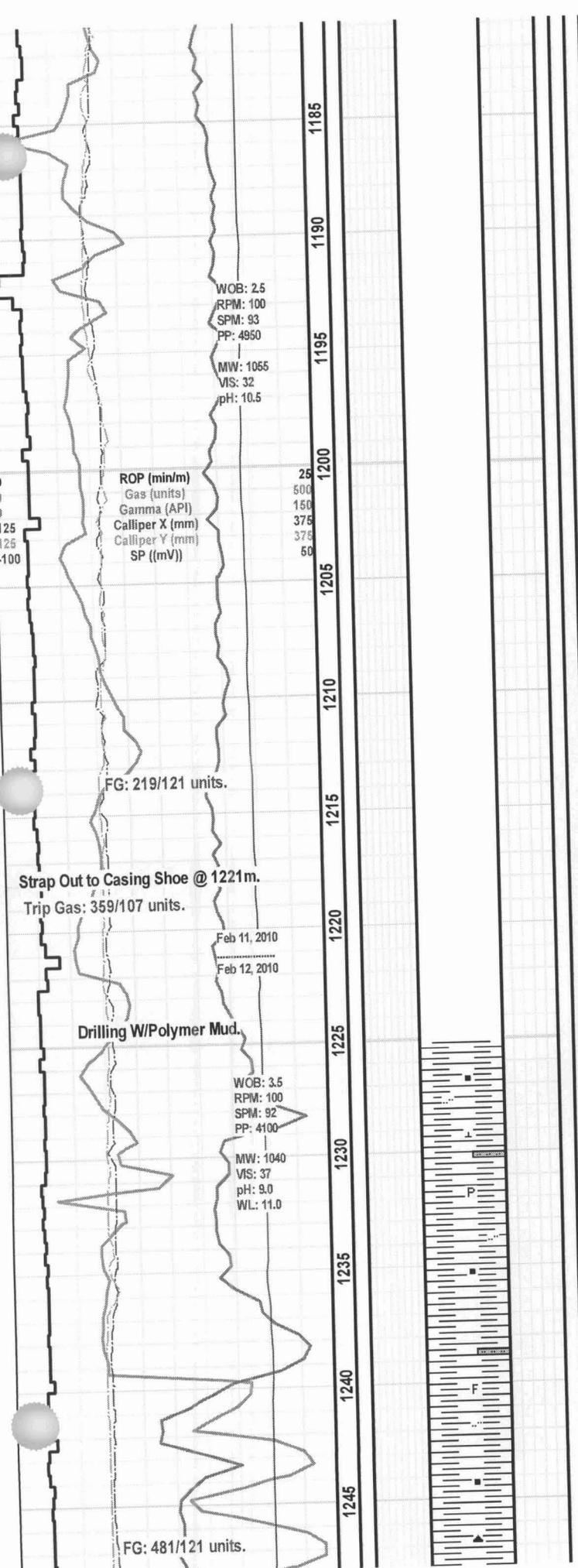
500
45

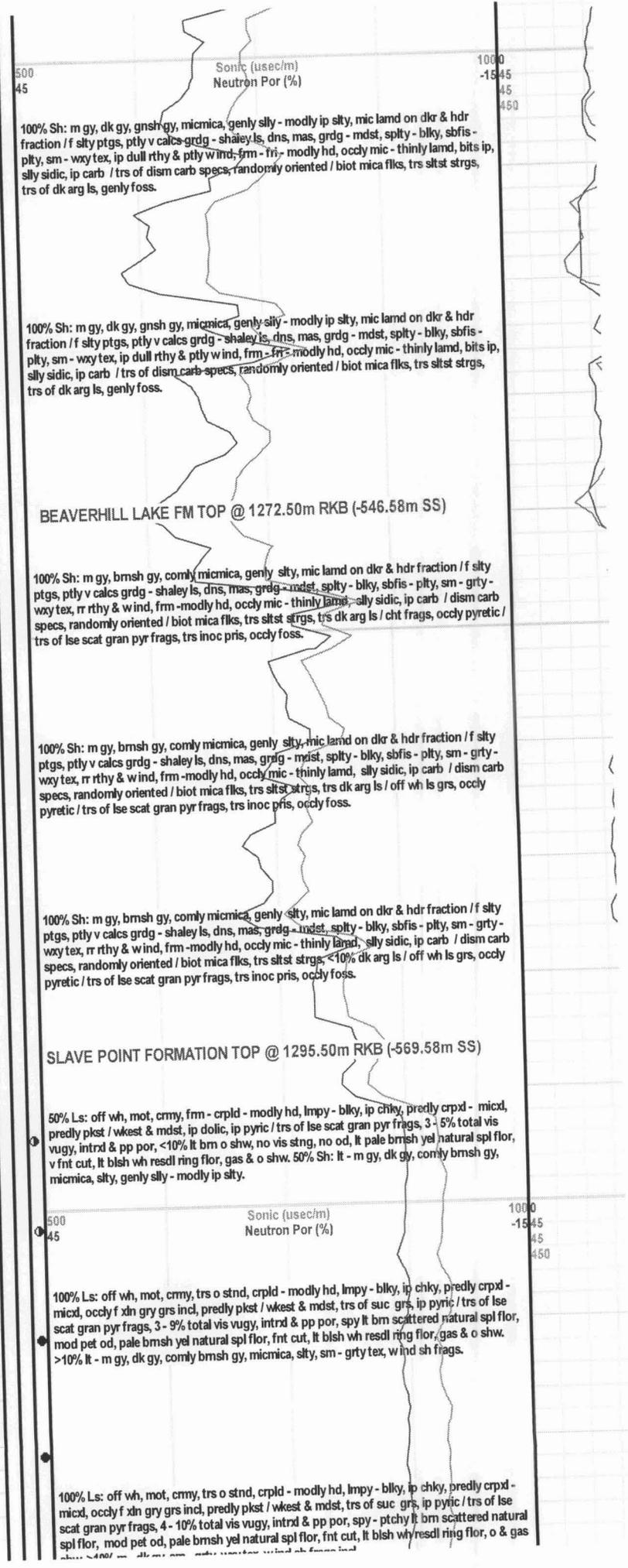
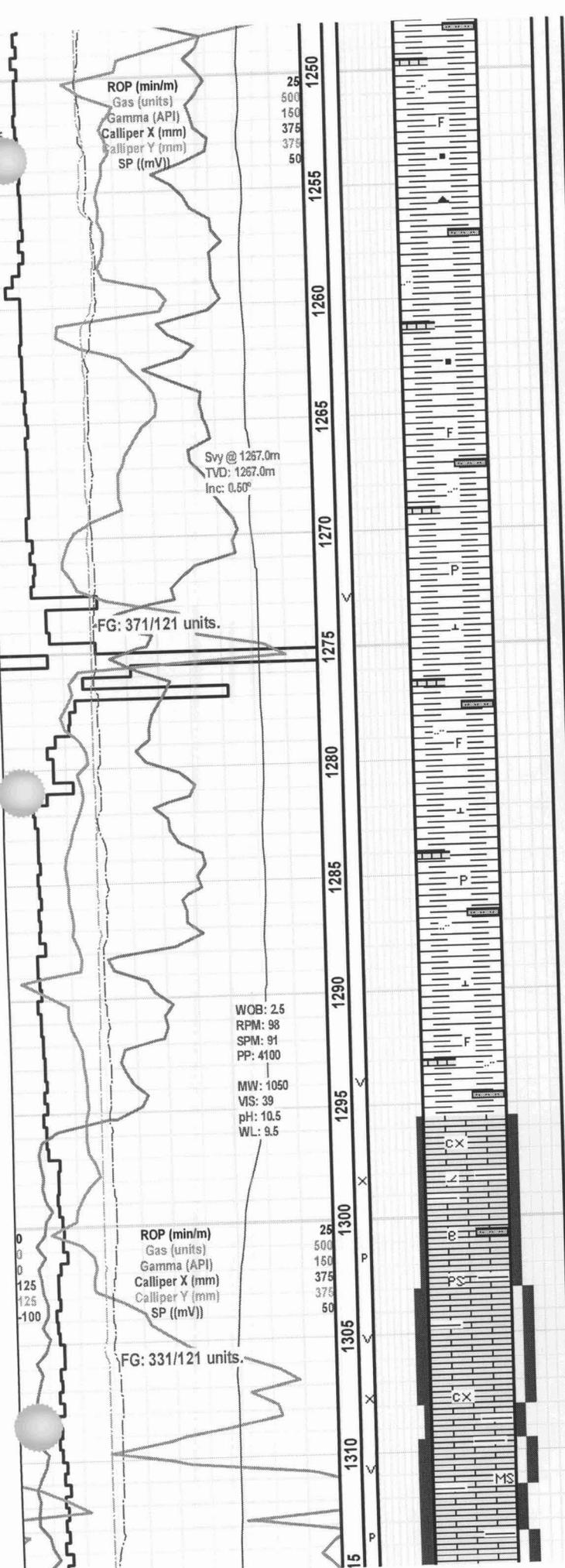
Sonic (usec/m)
Neutron Por (%)

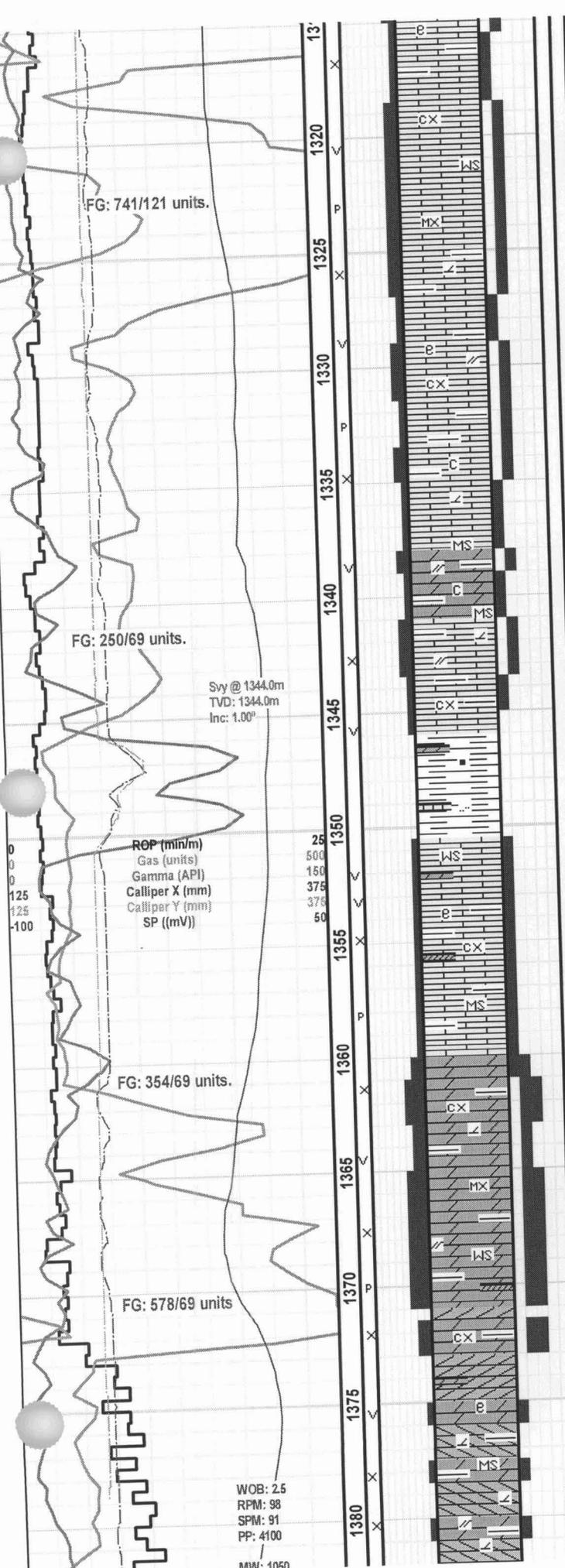
1000
-15
45
450











shw. 10% m - dk gy, sm - gry wxy tex, w ind sh frags incl.

100% Ls: brn, tan, off wh, lt yel / dk brn stn, mot, frm, fri - crpld - modly hd, lmpy - blk, predly crpxd / micxd & trs v f xln deb, predly pkst - wkest tex, pty mdst, intcls & ocdy biocl deb, calcar, pty rthy & arg, ip dolc & anhyic, loc bits ptgs, >5% gy, dk gy, brnsh gy sh frags incl, trs pyric grs / trs of lse scat gran pyr frags, 3 - 8% total vis intrd, vugy & pp por, sl pet od, spy lt brn natural spl flor, slow fnt cut, pale yelsh brn resdl ring flor, o & gas shw.

100% Ls: brn, tan, off wh, lt yel / dk brn stn, mot, frm, fri - crpld - modly hd, lmpy - blk, predly crpxd / micxd & trs v f xln deb, predly pkst - wkest tex, pty mdst, intcls & ocdy biocl deb, calcar, pty rthy & arg, ip dolc & anhyic, loc bits ptgs, >5% gy, dk gy, brnsh gy sh frags incl, trs pyric grs / trs of lse scat gran pyr frags, 3 - 8% total vis intrd, vugy & pp por, sl pet od, spy lt brn natural spl flor, slow fnt cut, pale yelsh brn resdl ring flor, o & gas shw.

F4 MARKER FORMATION TOP @ 1336.50m RKB (-610.58m SS)

60% Ls: brn, tan, lt yel / dk brn stn, mot, predly crpxd / micxd deb, 3 - 5% total vis vugy & intrd por, no od, no vis stng, >5% lt brn natural spl flor, hazy cut flor, ns, 40% Dol: Dol: off wh, stnny, crmy, predly crpxd deb, mdst - pkst arg deb, foss, trs of sh frags, abnt of calc & anhy incl, 3-4% vis vugy & intrd por, hazy cut flor.

WATT MOUNTAIN FM TOP @ 1346.0m RKB (-620.08m SS)

60% Sh: gnsh gy, gn, micmica, mic lamd, sily calcs, dns, mas, amor - sbfis, sm - gry tex, ip w ind, pty dull rthy tex, predly modly hd, pty carb / trs of dsm carb specs, trs of anhy & cht incl. 40% Ls: brn, tan, lt yel / dk brn stn, mot, fri - crpld - modly hd, lmpy - blk, predly crpxd / micxd deb, sily dolc, 3 - 5% total vis vugy & intrd, por, hazy cut flor, ns.

SULPHUR POINT FM LS TOP @ 1350.50m RKB (-624.58m SS)

100% Ls: off wh, crm - bf, mot, v shp - dns crpxd - deb, trs micxd / f xln grs, predly wkest - pkst, ip chky & arg, sily dolc, modly hd, lmpy - blk, intcls & ocdy biocl deb, trs pell incl, >10% dk - brnsh gy wxy, w ind sh grs / trs anhy grs, 4 - 9% total scat vis vugy - intrd - mf por, no vis stng, spty brnsh o stn - mod pet od, lt brnsh yel natural spl flor, lt gnsh yel stmg cut flor, lt brnsh yel resdl ring flor, o shw (?).

SULPHUR POINT FM DOLTOP @ 1359.50m RKB (-633.58m SS)

100% Dol: off wh - lt brn, tan - bf, o stn, v shp dns, mas, ip micxd - tetrahedral xln deb, predly wkest - pkst, predly gmy & suc, rr chky, sily limy, ip arg & sily calcic, trs calc incl, rr / bits ptgs, sily anhyic, <5% gn wxy sh incl, 5 - 14% total scat vis intrd, pp & vugy por, no vis stng, strong pet od / even dk brnsh yel o stn, lt brnsh yel natural spl flor, gnsh yel stmg cut flor, pale brnsh yel resdl ring flor, o & gas shw.

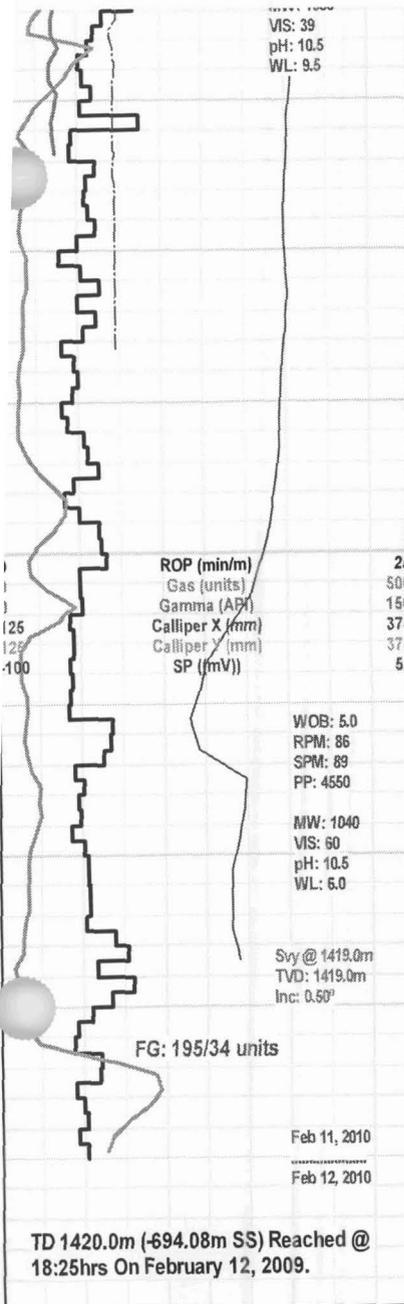
100% Dol: off wh - lt brn, tan - bf, o stn, v shp dns, mas, ip micxd - tetrahedral xln deb, predly wkest - pkst, predly gmy & suc, rr chky, sily limy, ip arg & sily calcic, trs calc incl, rr / bits ptgs, sily anhyic, trs gn wxy sh incl, trs of anhy, 5 - 14% total scat vis intrd, pp & vugy por, no vis stng, strong pet od / even dk brnsh yel o stn, lt brnsh yel natural spl flor, gnsh yel stmg cut flor, pale brnsh yel resdl ring flor, o & gas shw.

MUSKEG FORMATION TOP @ 1371.00m RKB (-645.08m SS)

60% Dol: off wh, crm - bf, tan, v shp micxd - f xln deb, predly grst - wkest - pkst, ip gry, pty chky, sily limy, sily - v anhyic, mnr arg & rthy, calcar, 3 - 5% total scat vis intrd, vugy por, sl pet od, trs lt brnsh yel natural spl flor, hazy cut flor, p shw. 40% Anhy: wh, off wh, brn - dk brn, hyaline, iregly shaped, shp, ang crpxd / trs midxn, ip chky, abnt of calc incl.

70% Anhy: wh, off wh, brn - dk brn, hyaline, iregly shaped, shp, ang crpxd / trs midxn, dns, abnt of calc incl, trs of f xln ls / abnt of brnsh gy - tan dol incl. 30% Dol: off wh, crm - bf, tan, v shp micxd - f xln deb, predly grst - wkest - pkst, ip gry, pty chky, sily limy, sily - v anhyic, mnr

VIS: 39
pH: 10.5
WL: 9.5



ROP (min/m)
Gas (units)
Gamma (API)
Calliper X (mm)
Calliper Y (mm)
SP (mV)

WOB: 5.0
RPM: 86
SPM: 89
PP: 4550

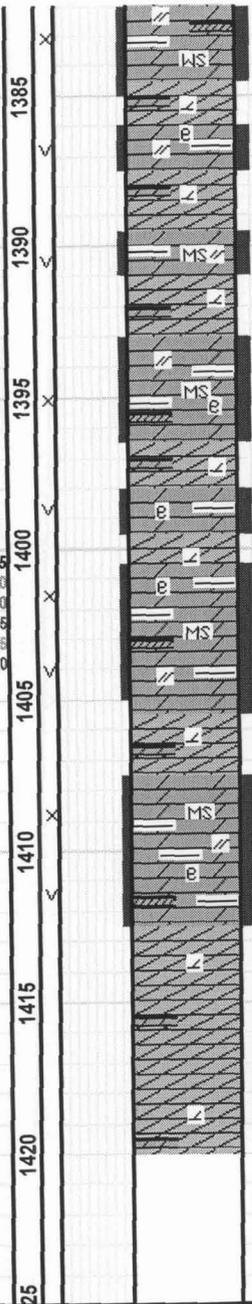
MW: 1040
VIS: 60
pH: 10.5
WL: 5.0

Svy @ 1419.0m
TVD: 1419.0m
Inc: 0.50°

FG: 195/34 units

Feb 11, 2010
Feb 12, 2010

TD 1420.0m (-694.08m SS) Reached @
18:25hrs On February 12, 2009.



arg & rthy, calcar, 3 - 5% total scat vis intrd - vugy por, sl p od, trs lt bmsh yel natural spl flor, hazy cut flor, p shw.

60% Anhy: wh, off wh, bm - dk bm, hyaline, iregly shaped, shp, ang crpxl / trs mixdn, dns, abnt of calc incl, trs of f xdn ls / abnt of bmsh gy - tan dol incl. 40% Dol: off wh, cm - bf, tan, v shp micxl - f xdn deb, predly grst - wkest - pkst, ip gry, ptly chky, sily limy, v anhyic, mnr arg & rthy, calcar, 3 - 5% total scat vis intrd - vugy por, sl p od, trs lt bmsh yel natural spl flor, hazy cut flor, p shw.

60% Anhy: wh, off wh, bm - dk bm, hyaline, iregly shaped, shp, ang crpxl / trs mixdn, dns, abnt of calc incl, trs of f xdn ls / abnt of bmsh gy - tan dol incl. 40% Dol: off wh, cm - bf, tan, v shp micxl - f xdn deb, predly grst - wkest - pkst, ip gry, ptly chky, sily limy, v anhyic, mnr arg & rthy, calcar, 3 - 5% total scat vis intrd - vugy por, sl p od, trs lt bmsh yel natural spl flor, hazy cut flor, p shw.

60% Anhy: wh, off wh, bm - dk bm, hyaline, iregly shaped, shp, ang crpxl / trs mixdn, dns, abnt of calc incl, trs of f xdn ls / abnt of bmsh gy - tan dol incl. 40% Dol: off wh, cm - bf, tan, v shp micxl - f xdn deb, predly grst - wkest - pkst, ip gry, ptly chky, sily limy, v anhyic, mnr arg & rthy, calcar, 3 - 5% total scat vis intrd - vugy por, sl p od, trs lt bmsh yel natural spl flor, hazy cut flor, p shw.

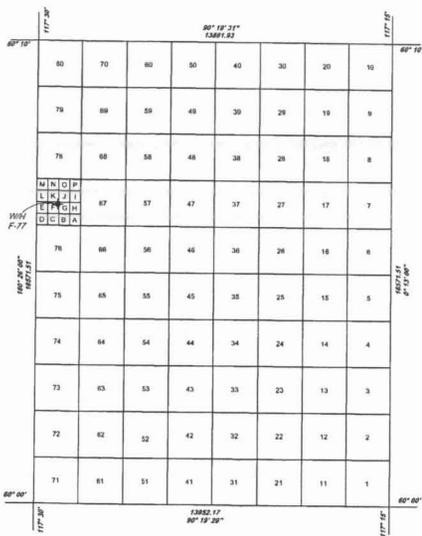
60% Anhy: wh, off wh, bm - dk bm, hyaline, iregly shaped, shp, ang crpxl / trs mixdn, dns, abnt of calc incl, trs of f xdn ls / abnt of bmsh gy - tan dol incl. 40% Dol: off wh, cm - bf, tan, v shp micxl - f xdn deb, predly grst - wkest - pkst, ip gry, ptly chky, sily limy, v anhyic, mnr arg & rthy, calcar, 3 - 5% total scat vis intrd - vugy por, sl p od, trs lt bmsh yel natural spl flor, hazy cut flor, p shw.

100% Anhy: wh, off wh, bm - dk bm, hyaline, iregly shaped, shp, ang crpxl / trs mixdn, dns, abnt of calc incl, trs of f xdn ls / abnt of bmsh gy - tan dol incl.

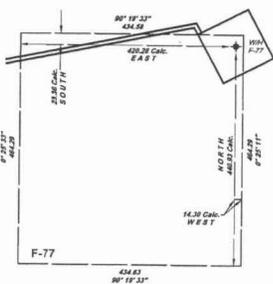
Sonic (usec/m) 1000
Neutron Por (%) 15
5
50

Logging Conducted By Weatherford.
Run# 1: STI/SPeD/CNS/GR/MRT/HBC/CAL.

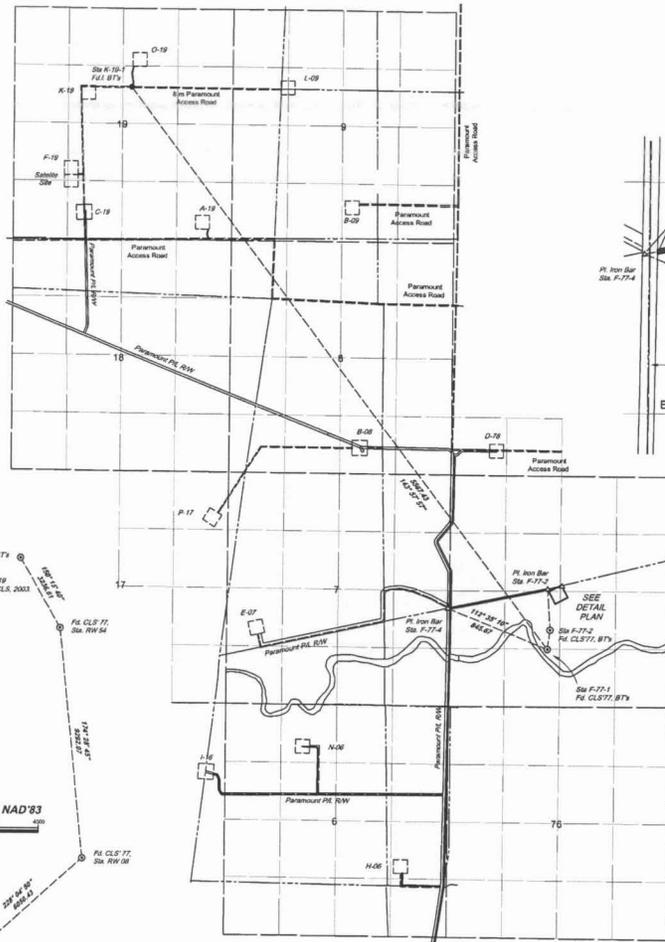




GRID AREA 60° 10', 117° 15'
SCALE 1:100,000



UNIT F-77 NAD'27
SCALE 1:5000

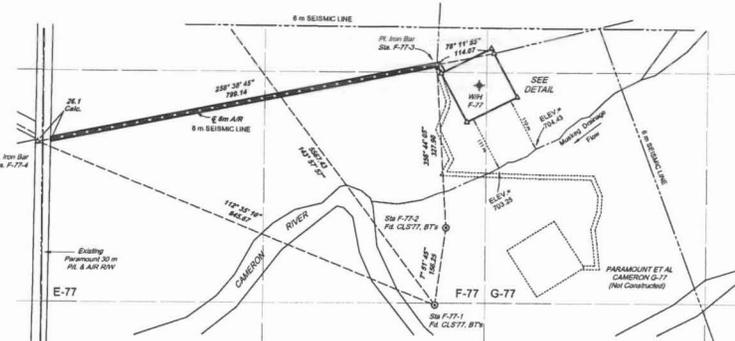


ACCESS SKETCH AND LOCATION TRAVERSE NAD'83
SCALE 1:20,000

GEOGRAPHIC AND UTM COORDINATES - NAD '27				
STATION	LATITUDE (N)	LONGITUDE (W)	NORTHING	EASTING
GRID AREA 60° 10', 117° 15'				
N.E.	80° 19' 00.000"	117° 18' 00.000"	6899792.764	488125.289
N.W.	80° 19' 00.000"	117° 30' 00.000"	6898871.560	472350.852
S.W.	80° 00' 00.000"	117° 30' 00.000"	6851910.016	472112.252
S.E.	80° 00' 00.000"	117° 18' 00.000"	6851230.974	489655.980
UNIT F-77				
N.E.	80° 06' 30.652"	117° 29' 03.749"	6863370.09	473070.21
N.W.	80° 06' 30.628"	117° 29' 31.873"	6863372.36	472835.86
S.W.	80° 06' 15.028"	117° 29' 31.873"	6862908.52	472832.41
S.E.	80° 06' 15.052"	117° 29' 03.749"	6862908.05	473068.81
STA K-19-1				
	80° 08' 39.854"	117° 32' 44.356"	6867408.02	489686.30
WH F-77				
	80° 06' 28.296"	117° 29' 04.674"	6863349.82	473055.71

GEOGRAPHIC AND UTM COORDINATES - NAD '83				
STATION	LATITUDE (N)	LONGITUDE (W)	NORTHING	ELEVATION
K-19-1	80° 08' 40.028"	117° 32' 49.456"	6867624.42	489616.96
F-77-1	80° 06' 15.402"	117° 29' 15.111"	6863124.51	472892.45
F-77-2	80° 06' 20.468"	117° 29' 13.802"	6863279.21	472813.81
F-77-3	80° 06' 30.979"	117° 29' 15.167"	6863006.41	472895.14
F-77-4	80° 06' 25.707"	117° 30' 55.797"	6863448.16	472112.04
WH F-77	80° 06' 28.989"	117° 29' 06.761"	6863365.24	472176.32
				721.85 CF
				721.25 GPND

WELL SITE COORDINATES SHOWN ARE BASED ON TD CLS77 POST STA K-19-1 W/S PLAN. CLOSE BY GREG SODGS, CLS HELD FOR VERTICAL AND HORIZONTAL CONTROL (SEE RETURN TRAVERSE FOR COORDINATION.) FINAL COORDINATES WERE CALCULATED IN NAD83 AND CONVERTED TO NAD27 USING NATIONAL TRANSFORMATION VERSION 2 PROGRAM



W/S DETAIL NAD'83
SCALE 1:5000



DETAIL NAD'83
SCALE 1:2000

AREA REQ'D WITHIN WELL SITE = 1.21 ha
ACCESS ROAD = 0.636 ha
TOTAL = 1.846 ha

ELEVATIONS:
N. COR. = 724.81 m
E. COR. = 711.44 m
S. COR. = 713.11 m
W. COR. = 724.19 m

Plan and Field Notes of (As Built) Survey of PRODUCTION WELL PARA ET AL CAMERON F-77 within UNIT H, SECTION 06 GRID AREA 60° 10', 117° 15' NORTHWEST TERRITORIES CANADA OIL AND GAS REGULATIONS PRODUCTION LICENCE NO. PL#014

THIS SURVEY WAS EXECUTED BETWEEN THE DATES OF OCTOBER 18TH, 2009 TO MARCH 20TH, 2010 BY GREG SODGS, CLS CERTIFIED CORRECT AND COMPLETED JUNE 02, 2010.

GREG SODGS DATE
CANADA LANDS SURVEYOR



Surveyed for PARAMOUNT RESOURCES LTD.

SCALE = 1:5000
DATE: JUNE 02, 2010
UNIVERSAL SURVEYING INC.
09-1806
UNIVERSAL PLAN No. 091806L01
REVISION No.: A



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/4/2010

Report #: 1.0

Depth Progress:

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 23,036

Cum Cost to Date: 23,036

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: -1.04 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB)	Depth End (mKB)	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather CLEAR	Temperature (°C) -38	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	Job Contact	Phone Mobile

TIME LOG SUMMARY					
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	07:45	7.75	7.75	Tear down	TEAR DOWN FOR MORNING MOVE
07:45	08:00	0.25	8.00	Safety meeting	HAND OVER MEETING
08:00	08:15	0.25	8.25	Safety meeting	SAFETY MEETING W/MULLEN AND CREW MOVE FROM H-06 TO F-77
08:15	16:00	7.75	16.00	Move rig	MOVE RIG W/MULLEN
16:00	18:30	2.50	18.50	Move rig	MOVE RIG W/MULLEN
18:30	18:45	0.25	18.75	Safety meeting	HAND OVER MEETING
18:45	21:30	2.75	21.50	Rig up	RIG UP POWER, STEAM AND ALL RELATED EQUIPMENT
21:30	21:45	0.25	21.75	Safety meeting	SAFETY MEETING W/CREW PRIOR TO RAISE DERRICK
21:45	22:45	1.00	22.75	Rig up	VISUALLY INS DERRICK PRIOR TO RAISE DERRICK BY ROMEO DASTOUS AND ERICK BIGRAS. DERRICK RAISED @ 22:30HRS
22:45	23:00	0.25	23.00	Safety meeting	SAFETY MEETING W/WELDER
23:00	00:00	1.00	24.00	Other	WELD DIVERTER FLANGE AND FLOW SHOW

MUD CHECKS						
Low Gravity Solids (%)	MBT (kg/m³)	Oil Water Ratio	Chlorides (mg/L)	Calcium (mg/L)	Lime (kg/m³)	Potassium (mg/L)
Electric Stab (V)	ECD - Manual Entry (kg/m³)	Sand (%)	Solids (%)	Temp Bottom Hole (°C)	HHP Pressure (kPa)	HHP Filtrate (mL/30min)
Active Mud Volume (Surf) (m³)	Mud Lost to Hole (m³)	Cum Mud Lost to Hole (m³)		Daily Mud 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

MUD PUMPS					
Pump Number	1	Rod Diameter (mm)	63.5	Pump Rating (kW)	
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	0
					Volumetric Efficiency (%)
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	0
					Volumetric Efficiency (%)
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	0
					Volumetric Efficiency (%)
Pump Number	2	Rod Diameter (mm)	63.5	Pump Rating (kW)	
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	0
					Volumetric Efficiency (%)



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/4/2010

Report #: 1.0

Depth Progress:

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 23,036

Cum Cost to Date: 23,036

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: -1.04 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	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)

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
2/4/2010	Safety Meeting	RIG MOVE
2/4/2010	Safety Meeting	RUG UP
2/5/2010	Safety Meeting	NIPPLE UP DIVERTER

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)
F4 Watt Mtn Fm Sulphur Point Fm Muskeg Fm TD		



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

**Business Unit: NE BC & NWT COU
Rig: 245 PRECISION DRILLING, DIV OF PDC**

**Report For: 2/5/2010
Report #: 2.0
Depth Progress:
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 287,582
Cum Cost to Date: 310,618**

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: -0.04 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB)	Depth End (mKB)	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather ICE FOG	Temperature (°C) -13	Lease Condition	
Operation at 6am DRILLING 311MM HOLE @ 62.00			
Operations Summary WELDED CONDUCTOR FLANGE, INSTALLED DIVERTER AND RIGGED UP FLARE TANK. INSTALLED SNOW RAMPS AND FROZE IN WITH CONSTRUCTION WATER TRUCKS ORGANIZED MUD PRODUCT			
Operations Next Report Period SPUD F-77 AND DRILL AHEAD			
Remarks COMPLETED CAODC CHECKIST AND HAZARD HUNT CONTINUED WITH FLOODING OF BACK END OF THE RIG, WATERED THE BERM TO ENSURE INTEGRITY IN CUTTINGS STORAGE AREA			
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 HALE YARDLEY	Phone Mobile 866 935 3725
Title Rig Manager	Job Contact ERIC BIGRAS	Phone Mobile 866 672 1751
Title Drilling Foreman	Job Contact JOSH BLINSTON	Phone Mobile 866 935 3725

TIME LOG SUMMARY					
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	02:00	2.00	2.00	Other	WELD DIVERTER FLANGE AND FLOW SHOW
02:00	06:00	4.00	6.00	Nipple up/down diverter system	NIPPLE UP/DIVERTER SYSTEM + DIVERTER LINE IN FLARE TANK, CHANGE HAMMER UNION ON DIVERTER LINE
06:00	06:15	0.25	6.25	Safety meeting	HAND OVER MEETING
06:15	07:15	1.00	7.25	Nipple up/down diverter system	CONT TO NIPPLE UP DIVERTER +DIVERTER LINE AND FLOW LINE +HCR COVER ON FLOW SHOW.
07:15	08:00	0.75	8.00	Rig up	RIG UP 3RD PARTY EQUIPMENT + RIG
08:00	16:00	8.00	16.00	Rig up	STEAMED OFF AND CHANGED SHAKER SCREENS, INSTALLED ONE 84 AND ONE 110 MESH SCREEN, ORGANIZED THE SHALE BINS, MUD PRODUCT, RIG UP LIGHTING AROUND THE RIG, SPOTTED LIGHT TOWER, FINALIZED TIE ON OF FLARE TANK. BUILT UP SNOW RAMPS IN AND AROUND SHALE BINS.
16:00	18:00	2.00	18.00	Rig up	CONSTRUCTION CREWS ASSISTING WITH LEASE PREPERATION
18:00	18:15	0.25	18.25	Safety meeting	HAND OVER MEETING
18:15	00:00	5.75	24.00	Rig up	CONT TO RIG UP AND MIX MUD PRIOR TO SPUD AND PICK UP BHA @22:15 PM CHANGE HARD DRIVE IN TOOL PUSH SHACK AND PASON SATELLITE DISH.

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



Daily Drilling

Well Name: **PARA ET AL CAMERON F-77**

Business Unit: **NE BC & NWT COU**
 Rig: **245 PRECISION DRILLING, DIV OF PDC**

Report For: **2/5/2010**
 Report #: **2.0**
 Depth Progress:
 Total AFE Amount: **1,437,304.00**
 AFE Number: **09N010009**
 Daily Cost: **287,582**
 Cum Cost to Date: **310,618**

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: -0.04 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

MUD PUMPS			
Pump Number 1	Rod Diameter (mm) 63.5	Pump Rating (kW)	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 63.5	Pump Rating (kW)	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	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)

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
2/5/2010	Safety Meeting	RIG UP 3rd PARTY EQUIPMENT
2/5/2010	Safety Meeting	COMMUNICATION
2/6/2010	Safety Meeting	HAZARD HUNT

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)	
2/6/2010	21.00	0.50	0.00	21.00	0.09	0.00	0.09	0.71	
2/6/2010	48.00	1.00	0.00	48.00	0.45	0.00	0.45	0.56	

FORMATIONS		
Formation Name	Drill Top MD (mKB)	Drill Top TVD (mKB)
F4 Watt Mtn Fm Sulphur Point Fm Muskeg Fm TD		



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/6/2010
Report #: 3.0
Depth Progress: 236.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 109,366
Cum Cost to Date: 419,984

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 0.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB) 0.0	Depth End (mKB) 236.0	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather OVERCAST, CALM		Temperature (°C) -12	Lease Condition FROZEN AND FIRM

Operation at 6am
DRILLING SURFACE HOLE TO 303 M @ 15+ M/HR

Operations Summary
 RIGGED TO SPUD. SPURRED WELL @ 01:00. DRILLED AHEAD AND SURVEYED. MINOR LOSS CIRCULATION 152 - 172 M IN COURSE SANDS.

Operations Next Report Period
RUN AND CEMENT SURFACE CASING

Remarks
 PRE-SPUD MEETING AND DISCUSSION OF DEALING WITH FROZEN / ICE LOCATIONS: CELLAR HEATERS POINTED UP, SAWDUST, GEL AND PLASTIC PLACED IN CELLAR WITH STRICT ORDERS TO NOT RUN A STEAM HOSE IN PIPE IN THE MOUSE HOLE. 1 LESS THAN 100 L MUD SPILL FROM SHALE BIN AND CLEANED-UP

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 ERICK BIGRAS	Phone Mobile
Title Drilling Foreman	Job Contact HALE YARDLEY	Phone Mobile 866 935 3725
Title Rig Manager	Job Contact ERIC BIGRAS	Phone Mobile 866 672 1751
Title Drilling Foreman	Job Contact JOSH BLINSTON	Phone Mobile 866 935 3725

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	PRE SPUD SAFETY MEETING CREW, RIG MANAGER AND WELL SUPREVISER
00:15	00:45	0.50	0.75		HAZARD HUNT WITH CREW
00:45	01:00	0.25	1.00	RIG SERVICE	RIG SERVICE FUNCTION HYDRILL 18sec to close
01:00	02:00	1.00	2.00	DRILL	DRILL 311mm HOLE F/ 27M TO 31M
02:00	02:15	0.25	2.25	RIG SERVICE	RIG SERVICE & SET CROWN SAVER
02:15	04:45	2.50	4.75	DRILL	DRILL FROM 31M TO 51M
04:45	05:00	0.25	5.00	DEV. SURVEY	DEVIATION SURVEY
05:00	06:00	1.00	6.00	DRILL	DRILL FROM 51M TO 60 M
06:00	06:15	0.25	6.25	SAFETY MEETING	HAND OVER SAFETY MEETING
06:15	07:15	1.00	7.25	DRILL	DRILL FROM 60 M TO 78M
07:15	07:30	0.25	7.50	DEV. SURVEY	DEVIATION SURVEY 1DEG @ 48M
07:30	08:00	0.50	8.00	DRILL	DRILL 311mm HOLE F/ 78m TO 84m
08:00	08:15	0.25	8.25	RIG SERVICE	RIG SERVICE(FUNC. HYDRIL 19 SEC. TO CLOSE)
08:15	08:45	0.50	8.75	DRILL	DRILL 311mm HOLE F/ 84m TO 88m
08:45	09:00	0.25	9.00		FIX FLOW TEE
09:00	11:00	2.00	11.00	DRILL	DRILL 311mm HOLE F/ 88m TO 107m
11:00	11:15	0.25	11.25	DEV. SURVEY	SURVEY 77m @ 0.5DEG
11:15	13:30	2.25	13.50	DRILL	DRILL 311mm HOLE F/ 107m TO 134m
13:30	13:45	0.25	13.75	DEV. SURVEY	SURVEY 104m @ 0.5DEG
13:45	16:00	2.25	16.00	DRILL	DRILL 311mm HOLE F/ 134m TO 159m ENCOUNTER COARSE SAND FROM 152M TO 172M.
16:00	16:30	0.50	16.50	COND MUD & CIRC	BUILD VOL. & VIS FOR LOSSES
16:30	17:30	1.00	17.50	DRILL	DRILL 311mm HOLE F/ 159m TO 171m
17:30	18:00	0.50	18.00	RIG SERVICE	RIG SERVICE(FUNC. DIVERTER 20 SEC. TO CLOSE



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

**Business Unit: NE BC & NWT COU
Rig: 245 PRECISION DRILLING, DIV OF PDC**

**Report For: 2/6/2010
Report #: 3.0
Depth Progress: 236.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 109,366
Cum Cost to Date: 419,984**

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 0.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
18:00	18:15	0.25	18.25	SAFETY MEETING	HAND OVER SAFETY MEETING
18:15	23:45	5.50	23.75	DRILL	DRILL 311mm HOLE F/ 171m TO 236 M
23:45	00:00	0.25	24.00	DEV. SURVEY	DEVIATION SURVEY ACCU TIME.

MUD CHECKS

Low Gravity Solids (%)	MBT (kg/m³)	Oil Water Ratio	Chlorides (mg/L)	Calcium (mg/L)	Lime (kg/m³)	Potassium (mg/L)
Electric Stab (V)	ECD - Manual Entry (kg/m³)	Sand (%)	Solids (%)	Temp Bottom Hole (°C)	HHP Pressure (kPa)	HHP Filtrate (mL/30min)
Active Mud Volume (Surf) (m³)	Mud Lost to Hole (m³)	Cum Mud Lost to Hole (m³)		Daily Mud Cost	Mud Cum To Date	
				4,561	4,561	
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)	
	1050.0	36	8.0			

MUD ADDITIVES

Description	Cost (/unit)	Consumed
KELZAN	522.35	2.0
HYPERDRILLAF247RD	221.55	2.0
SAWDUST	6.53	30.0
HYPERDRILLAF247RD	221.55	1.0
MILLZAN	522.35	2.0
SAWDUST	6.53	20.0
CELLOPHANE	72.40	1.0
KELZAN	522.35	2.0
KWIKSEAL	34.01	3.0
SAWDUST	6.53	40.0

MUD PUMPS

Pump Number 1	Rod Diameter (mm) 63.5	Pump Rating (kW)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 80
		Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 80
		Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 75
		Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 63.5	Pump Rating (kW)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 80
		Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 80
		Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 75
		Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 1RR	Bit Type Bit	Size (mm) 311.0	Make VAREL	Model HEO4JMRSV	Serial Number 253625	IADC Codes ---
Nozzles (mm) 14.3/14.3/14.3/14.3	Depth In (mKB) 0.00	Depth Out (mKB) 324.00	Depth Drilled (m) 324.00	Drilling Time (hrs) 25.25	BHA ROP (m/hr) 12.8	IADC Bit Dull 1-1-WT-A-E-1-CT-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.57	320.24
Drill pipe - Stands			5	95.48	310.67
HWDP(4.0 IN)		135.0	6	55.44	215.19
X/O		158.0	1	0.27	159.75
DC (6.25 IN)		158.0	8	72.93	159.48
JARS-HYD		158.0	1	5.26	86.55
PONY DC		158.0	1	4.60	81.29



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

**Business Unit: NE BC & NWT COU
Rig: 245 PRECISION DRILLING, DIV OF PDC**

**Report For: 2/6/2010
Report #: 3.0
Depth Progress: 236.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 109,366
Cum Cost to Date: 419,984**

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 0.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

DRILL STRING COMPONENTS						
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)	
DC (6.25 IN)		158.0	5	45.80	76.69	
TELADRIFT		158.0	1	2.62	30.89	
DC (6.25 IN)		158.0	1	8.78	28.27	
BELL SUB		158.0	1	0.76	19.49	
DC (8.00 IN)		203.0	2	18.02	18.73	
BIT SUB		203.0	1	0.71	0.71	

DRILLING SUMMARY						
Depth Start (mKB) 0.00	Depth End (mKB) 84.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3	Drilling Torque 0.0	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 180	Motor RPM (rpm)	Bit RPM (rpm) 180	Slack-Off Hook Load (daN)	Drilling Time (hrs) 5.00		
Depth Start (mKB) 84.00	Depth End (mKB) 159.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 4	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 160	Motor RPM (rpm)	Bit RPM (rpm) 160	Slack-Off Hook Load (daN)	Drilling Time (hrs) 7.00		
Depth Start (mKB) 159.00	Depth End (mKB) 236.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 3	Drilling Torque 0.0	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 150	Motor RPM (rpm)	Bit RPM (rpm) 150	Slack-Off Hook Load (daN)	Drilling Time (hrs) 6.50		

SAFETY CHECKS		
Date	Type	Description
2/6/2010	Safety Meeting	CONTAINING SPILLS
2/6/2010	Safety Meeting	WORKING ON PUMP
2/7/2010	Safety Meeting	MOUSE HOLE CONN

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)
2/6/2010	179.00	1.00	0.00	178.99	2.04	0.00	2.04	0.20
2/6/2010	207.00	1.00	0.00	206.98	2.53	0.00	2.53	0.00
2/7/2010	216.00	1.00	0.00	215.98	2.69	0.00	2.69	0.00
2/7/2010	234.00	1.00	0.00	233.98	3.00	0.00	3.00	0.00
2/7/2010	273.00	0.50	0.00	272.98	3.51	0.00	3.51	0.38

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



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/7/2010

Report #: 4.0

Depth Progress: 88.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 49,733

Cum Cost to Date: 469,717

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 1.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB) 236.0	Depth End (mKB) 324.0	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather CLEAR		Temperature (°C) -10	Lease Condition
Operation at 6am WOC, STRIPPING MUD, RIGGING OUT DIVERTER			
Operations Summary DRILLED SURFACE HOLE TO 378 M, WIPER TRIPPED TO SURFACE, CIRCULATED SMALL BRIDGE @ 190 M AND WASHED TO BOTTOM WITH 9 M FILL. DRILLED TO 379 M TRIPPED OUT FOR CASING. LAID DOWN 203 MM DC'S			
Operations Next Report Period RUN AND CEMENT SURFACE CASING, HEAD-UP AND PRESSURE TEST BOPS			
Remarks HOLE IN GOOD CONDITION, BEGAN TO STRIP OUT SOLIDS. REPORTABLE INCIDENT ABOUT 200 L OF HIGH VIS DRILLING MUD LOST OUT END OF SHALE TANK. IT WAS IMMEDIATELY SCOOPED UP AND RETURNED TO THE SHALE BIN. SHALE SHAKER IS THE WEAK LINK OF THIS OPERATION.			
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 HALE YARDLEY	Phone Mobile 866 935 3725
Title Drilling Foreman	Job Contact JOSH BLINSTON	Phone Mobile 866 935 3725
Title Rig Manager	Job Contact ERIC BIGRAS	Phone Mobile 866 672 1751

TIME LOG SUMMARY					
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:45	0.75	0.75	DRILL	DRILL 311 MM HOLE FROM 236 M TO 246M
00:45	01:00	0.25	1.00	RIG SERVICE	RIG SERVICE& FUNCTION DIVERTER 20 SEC CLOSED
01:00	01:15	0.25	1.25	DEV. SURVEY	DEVIATION SURVEY
01:15	03:00	1.75	3.00	DRILL	DRILL 311MM HOLE FROM 246 M TO 274M
03:00	03:15	0.25	3.25	DEV. SURVEY	DEVIATION SURVEY
03:15	05:45	2.50	5.75	DRILL	DRILL 311MM HOLE FROM 274M TO 303 M
05:45	06:00	0.25	6.00	DEV. SURVEY	DEVIATION SURVEY
06:00	06:15	0.25	6.25	SAFETY MEETING	HAND OVER SAFETY MEETING
06:15	08:00	1.75	8.00	DRILL	DRILL 311 MM HOLE FROM 303 M TO 324M
08:00	08:15	0.25	8.25	RIG SERVICE	RIG SERVICE(FUNC. DIVERTER 19 SEC. TO CLOSE)
08:15	08:30	0.25	8.50	DRILL	DRILL 311mm HOLE F/ 324m TO 332m
08:30	08:45	0.25	8.75	DEV. SURVEY	SURVEY 302m @ 0.5 DEG.
08:45	11:00	2.25	11.00	DRILL	DRILL 311mm HOLE F/ 332m TO 360m
11:00	11:15	0.25	11.25	DEV. SURVEY	SURVEY @ 330m 1.0 DEG
11:15	12:30	1.25	12.50	DRILL	DRILL 311mm HOLE F/ 360m TO 378m
12:30	12:45	0.25	12.75	COND MUD & CIRC	CIRC. HOLE CLEAN
12:45	13:00	0.25	13.00	DEV. SURVEY	SURVEY @ 348m 1.0 DEG
13:00	16:00	3.00	16.00	TRIPS	CLEAN OUT TRIP TO BIT(BLOW KELLY BEFORE TRIP)
16:00	16:45	0.75	16.75	TRIPS	TRIP IN(PIPE STRAP=RIG 208.15-STRAP 208.62=DIFF 0.47)
16:45	17:00	0.25	17.00	COND MUD & CIRC	WASH THROUGH BRIDGE @ 190m
17:00	17:45	0.75	17.75	TRIPS	RUN INTO 374M CIRC BOTTOMS UP
17:45	18:00	0.25	18.00	SAFETY MEETING	HANDOVER MEETING W/ CREWS
18:00	18:30	0.50	18.50	COND MUD & CIRC	CONDITION MUD & CIRCULATE



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU
Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/7/2010
Report #: 4.0
Depth Progress: 88.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 49,733
Cum Cost to Date: 469,717

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 1.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
18:30	18:45	0.25	18.75	DRILL	DRILL FROM 378M TO 379.0
18:45	20:00	1.25	20.00	COND MUD & CIRC	CONDITION MUD & CIRCULATE
20:00	23:00	3.00	23.00	TRIPS	BLOW KELLY & TRIP OUT OF HOLE TO RUN CASING LAY DOWN 8 DC , TRIP VOL CAL, 4.49 ACT / 5.02 DIFF .53M3
23:00	23:15	0.25	23.25	RIG SERVICE	RIG SERVICE
23:15	23:30	0.25	23.50	SAFETY MEETING	PRE-JOB SAFETY ON RUNNING CASING.
23:30	00:00	0.50	24.00	RUN CASING AND CEMENT	RIG UP/ TO RUN CASING SERIAL #32607/SLX-65 TONNE 6 5/8DATE CHECK 7/7/2005.

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		
			2,754	7,314		
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)	
	1080.0	57	8.0			

MUD ADDITIVES

Description	Cost (/unit)	Consumed
TKPP	150.51	1.0
KELZAN	522.35	1.0
DETERGENT	62.35	1.0
HYPERDRILLAF247RD	221.55	1.0
SAWDUST	6.53	15.0
HYPERDRILLAF247RD	221.55	1.0
MILLZAN	522.35	2.0
SAWDUST	6.53	10.0
GEL	14.69	25.0

MUD PUMPS

Pump Number	Rod Diameter (mm)	Pump Rating (kW)
1	63.5	
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	80
		Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	80
		Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	80
		Volumetric Efficiency (%)
2	63.5	
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	80
		Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	80
		Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	0
		Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 1RR	Bit Type Bit	Size (mm) 311.0	Make VAREL	Model HEO4JMRSV	Serial Number 253625	IADC Codes ---
Nozzles (mm) 14.3/14.3/14.3/14.3	Depth In (mKB) 0.00	Depth Out (mKB) 324.00	Depth Drilled (m) 324.00	Drilling Time (hrs) 25.25	BHA ROP (m/hr) 12.8	IADC Bit Dull 1-1-WT-A-E-1-CT-...

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
Drill pipe - Singles			1	9.57	320.24
Drill pipe - Stands			5	95.48	310.67



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

**Business Unit: NE BC & NWT COU
Rig: 245 PRECISION DRILLING, DIV OF PDC**

**Report For: 2/7/2010
Report #: 4.0
Depth Progress: 88.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 49,733
Cum Cost to Date: 469,717**

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 1.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

DRILL STRING COMPONENTS

Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)
HWDP(4.0 IN)		135.0	6	55.44	215.19
X/O		158.0	1	0.27	159.75
DC (6.25 IN)		158.0	8	72.93	159.48
JARS-HYD		158.0	1	5.26	86.55
PONY DC		158.0	1	4.60	81.29
DC (6.25 IN)		158.0	5	45.80	76.69
TELADRIFT		158.0	1	2.62	30.89
DC (6.25 IN)		158.0	1	8.78	28.27
BELL SUB		158.0	1	0.76	19.49
DC (8.00 IN)		203.0	2	18.02	18.73
BIT SUB		203.0	1	0.71	0.71

DRILLING SUMMARY

Depth Start (mKB) 236.00	Depth End (mKB) 324.00	ROP Instantaneous (min/m)	Weight on Bit (daN) 4	Drilling Torque 0.0	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 150	Motor RPM (rpm)	Bit RPM (rpm) 150	Slack-Off Hook Load (daN)	Drilling Time (hrs) 6.75		

SAFETY CHECKS

Date	Type	Description
2/7/2010	Safety Meeting	TRIPPING
2/7/2010	Safety Meeting	TRIPPING
2/8/2010	Safety Meeting	CEMENTING

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	302.00	0.50	0.00	301.97	3.77	0.00	3.77	0.00
2/7/2010	330.00	1.00	0.00	329.97	4.13	0.00	4.13	0.54
2/7/2010	348.00	1.00	0.00	347.97	4.45	0.00	4.45	0.00

FORMATIONS

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



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/8/2010

Report #: 5.0

Depth Progress: 0.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 85,375

Cum Cost to Date: 555,092

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 2.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB) 324.0	Depth End (mKB) 324.0	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather MOSTLY CLEAR		Temperature (°C) -15	Lease Condition FROZEN
Operation at 6am TRIPPING IN HOLE TO DRILL OUT			
Operations Summary RAN AND CEMENTED 380 M SURFACE CASING, WOC, CUT CASING, WELDED CASING BOWL, INSTALLED BOPS AND PRESSURE TESTED MANIFOLD AND BOPS			
Operations Next Report Period DRILL OUT AND AHEAD WITH 200 MAIN HOLE			
Remarks 5 M3 OF GOOD CEMENT RETURNS, STRIPPED 80 M3 OF SURFACE MUD, CONTINUED TO FREEZE VEHICLE ACCESS BEHIND FLARE TANK TO ALLOW TRUCKS AND LOADER TO DRIVE AROUND			
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 HALE YARDLEY	Phone Mobile 866 935 3725
Title Rig Manager	Job Contact ERIC BIGRAS	Phone Mobile 866 672 1751
Title Drilling Foreman	Job Contact JOSH BLINSTON	Phone Mobile 866 935 3725

TIME LOG SUMMARY					
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	02:30	2.50	2.50	RUN CASING AND CEMENT	CONT RUN CASING
02:30	04:15	1.75	4.25	COND MUD & CIRC	CONDITION MUD & CIRCULATE WORKED PIPE @ 379 M
04:15	04:30	0.25	4.50	SAFETY MEETING	PRE-JOB SAFETY ON CEMENTING
04:30	05:45	1.25	5.75	RUN CASING AND CEMENT	RIG UP TO & CEMENTING CASING
05:45	06:00	0.25	6.00	SAFETY MEETING	HAND OVER MEETING SAFETY MEETING
06:00	08:00	2.00	8.00	WAIT ON CEMENT	WAIT ON CEMENT
08:00	10:00	2.00	10.00	WAIT ON CEMENT	WAIT ON CEMENT STRIP MUD TO WATER
10:00	11:00	1.00	11.00	NIPPLE UP B.O.P.	NIPPLE DOWN DIVERTER SYSTEM + DIVERTER LINE,HCR
11:00	11:15	0.25	11.25	SAFETY MEETING	SAFETY MEETING W/WELDER
11:15	14:15	3.00	14.25		CUT CASING,DIVERTER FLANGE AND LAY OUT DIVERTER +WELD ON BOWL.
14:15	15:00	0.75	15.00	CUT OFF DRILLING LINE	SLIP/CUT DRILLING LINE
15:00	15:30	0.50	15.50		CONT TO WELD BOWL,COOL DOWN AND PRESSURE TEST BOWL.
15:30	15:45	0.25	15.75	SAFETY MEETING	SAFETY MEETING W/CREW PRIOR TO NIPPLE UP BOP AND ALL RELATED EQUIPMENT.
15:45	16:00	0.25	16.00	NIPPLE UP B.O.P.	NIPPLE UP BOP , HCR,KILL LINE,FLARE LINE,FLARE TANK,PRESSURE RELEASE LINE,MANIFOLD.
16:00	18:00	2.00	18.00	NIPPLE UP B.O.P.	CONT TO NIPPLE UP BOP AND ALL RELATED EQUIPMENT.



Daily Drilling

Well Name: **PARA ET AL CAMERON F-77**

Business Unit: **NE BC & NWT COU**
Rig: **245 PRECISION DRILLING, DIV OF PDC**

Report For: **2/8/2010**
Report #: **5.0**
Depth Progress: **0.00**
Total AFE Amount: **1,437,304.00**
AFE Number: **09N010009**
Daily Cost: **85,375**
Cum Cost to Date: **555,092**

API/UWI 300/F-77/6010-11715/0		Surface Legal Location F-77/6010-11715/0		Field Name CAMERON HILLS		License No. 2065	
Spud Date 2/6/2010 01:00				Rig Release Date 2/15/2010 8:00:00 AM		DFS: 2.96 days	
Ground Elevation (m) 720.17		Original KB Elevation (m) 725.92		KB-Casing Flange Distance (m) 4.20			

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
18:00	18:15	0.25	18.25	SAFETY MEETING	CREW HANDOVER MEETING
18:15	19:30	1.25	19.50	NIPPLE UP B.O.P.	NIPPLE UP BOP
19:30	19:45	0.25	19.75	SAFETY MEETING	SAFETY MEETING W/PRESSURE TESTER
19:45	00:00	4.25	24.00	TEST B.O.P.	TEST BOP PRESS TEST ALL MANIFOLD VALVE SWEEP LINE OUTSIDE HCR VALVE TO 1500 KPA LOW AND 14000 KPA HIGH 10 MIN EACH ,

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		
			1,509	8,824		
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)	
	1050.0	80				

MUD ADDITIVES

Description	Cost (/unit)	Consumed
SODA ASH	21.19	1.0
KELZAN	522.35	1.0
DESCO	80.46	2.0
CELLOPHANE	72.40	6.0
GEL	14.69	15.0
SAWDUST	6.53	23.0

MUD PUMPS

Pump Number	1	Rod Diameter (mm)	63.5	Pump Rating (kW)	
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	0
				Volumetric Efficiency (%)	
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	
				Volumetric Efficiency (%)	
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	0
				Volumetric Efficiency (%)	
Pump Number	2	Rod Diameter (mm)	63.5	Pump Rating (kW)	
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	80
				Volumetric Efficiency (%)	
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	
				Volumetric Efficiency (%)	
Pressure (kPa)		Slow Speed Check?	No	Strokes (spm)	0
				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)

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 F-77

Business Unit: NE BC & NWT COU
Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/8/2010
Report #: 5.0
Depth Progress: 0.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 85,375
Cum Cost to Date: 555,092

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00	Rig Release Date 2/15/2010 8:00:00 AM	DFS: 2.96 days	
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

SAFETY CHECKS		
Date	Type	Description
2/8/2010	Safety Meeting	HAMMER WRENCHES
2/8/2010	Safety Meeting	PRESSURE TESTING
2/9/2010	Safety Meeting	PRESS 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)

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

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Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/9/2010
Report #: 6.0
Depth Progress: 218.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 68,667
Cum Cost to Date: 623,760

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 3.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB) 379.4	Depth End (mKB) 597.4	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather MOSTLY CLEAR	Temperature (°C) -10	Lease Condition FROZEN	

Operation at 6am
CONTROL DRILLING FT. SIMPSON @ 15+ M/HR

Operations Summary
 PRESSURE TESTED MANIFOLD AND BOPS TO 1.4 & 14 MPA (ANNULAR 10.5 MPA) FOR 10 MINUTES EACH, ALL HELD OK. FUNCTION TESTED ACCUMULATOR. PRESSURE BEFORE 21.5 MPA AFTER 3 FUNCTIONS 12.5 MPA. RECHARGE TIME 64 SECS, HELD BOP DRILL WITH BOTH CREWS, HELD H2S DRILL AND AIR PACK DONNING DRILL. MINOR LOSS OF RETURNS AT WABAMUN TOP 480 M, REDUCED PUMP RATE AND DRILLED AHEAD WITH FLOC WATER

Operations Next Report Period
 DRILL AHEAD WITH FLOC WATER

Remarks
 DRILLED OUT WITH WATER AND AHEAD WITH PROCESSED SURFACE WATER. MUD DENSITY CLIMBED TO 1040 AND BEGAN TO FLOC SOLIDS. MINOR FLUID LOSS @ TOP OF WABAMUN, 480 M. INAC INSPECTION, NO PROBLEMS. DRILLED AHEAD INCIDENT FREE

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 HALE YARDLEY	Phone Mobile 866 935 3725	
Title Drilling Foreman	Job Contact JOSH BLINSTON	Phone Mobile 866 935 3725	
Title Rig Manager	Job Contact ERIC BIGRAS	Phone Mobile 866 672 1751	

TIME LOG SUMMARY					
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	02:15	2.25	2.25	Pressure test BOPs	FINISH PRESSURE TEST BOPS TEST HYDRILL TO 1,500 KPA LOW .10,500 HIGH 10 MIN EACH, TEST HCR, BACK UP KILL LINE STA BBING VAQLVE, INSIDE B.O.P TO 1500 KPA LOW 14,000 KPA HIGH 10 MIN EACH, TEST UPPER KELLY COCK TO 1,500 KPA LOW 15,000 KPA HIGH 10 MIN EACH,
02:15	02:30	0.25	2.50	Rig Service	RIG SERVICE , FUNCTION MOTOR KILL OK
02:30	03:30	1.00	3.50	Test BOP	ACCUMULATOR CHECK PRESS AT START,21,000 PRESS REMAINING AFTER 3 FUNCTION 12,500, TIME TO RECHARGE /1 MIN .4 SEC/PRECHARGE 6,600 KPA/ N 2 BOTTLE#12,100 PSI/#2 2,100 PSI #3 1,500 PSI. TEST BLID RAM 1,500 KPA LOW 14,000 KPA HIGH 10 MIN EACH.
03:30	03:45	0.25	3.75	Safety meeting	SAFETY MEETING & B.O.P DRILL WITH CREW PRIOR TO R.I.H CREW POSITION IN 1 MIN 20 SEC.
03:45	05:45	2.00	5.75	Trip in hole	MAKE UP B.H.A & TRIP IN HOLE WITH BIT #2
05:45	06:00	0.25	6.00	Safety meeting	HAND OVER SAFETY MEETING
06:00	06:15	0.25	6.25	Condition mud & circulate	CIRCULATE DOWN STRING TO TAG CEMENT
06:15	06:30	0.25	6.50	Drills/BOP, etc.	BOP DRILL W/ CREW(WELL SECURE IN 98SEC. HYDRIL 13SEC. TO CLOSE)
06:30	07:15	0.75	7.25	Condition mud & circulate	CIRCULATE DOWN STRING TO TAG CEMENT TOP
07:15	08:00	0.75	8.00	Drill cement/drill out cement/drill float&shoe	DRILL OUT FLOAT(TAG CEMENT @ 363M)
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE(FUNC. HCR 2SEC. TO OPEN)
08:15	09:45	1.50	9.75	Drill cement/drill out cement/drill float&shoe	DRILL OUT FLOAT & SHOE
09:45	11:00	1.25	11.00	Drill	DRILL 200mm HOLE F/ 379m TO 398m



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/9/2010
Report #: 6.0
Depth Progress: 218.00

Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 68,667
Cum Cost to Date: 623,760

API/UWI 300/F-77/6010-11715/0		Surface Legal Location F-77/6010-11715/0		Field Name CAMERON HILLS		License No. 2065	
Spud Date 2/6/2010 01:00				Rig Release Date 2/15/2010 8:00:00 AM		DFS: 3.96 days	
Ground Elevation (m) 720.17		Original KB Elevation (m) 725.92		KB-Casing Flange Distance (m) 4.20			

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
11:00	11:15	0.25	11.25	Deviation survey	SURVEY @ 397M 0.5DEG
11:15	14:30	3.25	14.50	Drill	DRILL 200mm HOLE F/ 398m TO 446m
14:30	14:45	0.25	14.75	On job training	SAFETY MEETING & SCBA TRAINING W/ RAIMS SAFETY SERVICES
14:45	16:00	1.25	16.00	Drill	DRILL 200mm HOLE F/ 446m TO 475m
16:00	16:15	0.25	16.25	Deviation survey	SURVEY @ 475M 0.5 DEG
16:15	18:00	1.75	18.00	Drill	DRILL 200mm HOLE F/ 475M TO 503 M
18:00	18:15	0.25	18.25	Safety meeting	HAND OVER SAFETY MEETING
18:15	18:45	0.50	18.75	Drill	DRILL FROM 503M TO 513 M
18:45	19:00	0.25	19.00	Rig Service	RIG SERVICE FUNCTION PIPE RAMS,4 SEC TO CLOSE
19:00	21:00	2.00	21.00	Drill	DRILL FROM 513M TO 551 M
21:00	21:15	0.25	21.25	Deviation survey	DEVIATION SURVEY
21:15	00:00	2.75	24.00	Drill	DRILL FROM 551 M TO 597 M

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		
519.40	1010.0	28	10.0	1,835	10,659	
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)	
519.40	1010.0	28	10.0			

MUD ADDITIVES

Description	Cost (/unit)	Consumed
CITRIC ACID	190.53	7.0
CALCIUM NITRATE	43.63	10.0
SAWDUST	6.53	10.0

MUD PUMPS

Pump Number	Rod Diameter (mm)	Pump Rating (kW)
1	63.5	
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	0
2,780	Yes	69
2,088	Yes	69
2	63.5	
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	65
	No	91
	No	0

BIT SUMMARY

Bit Run	Bit Type	Size (mm)	Make	Model	Serial Number	IADC Codes
2	Bit	200.0	REED	DSX416M-A3PDC	114176	M-2-2-2
Nozzles (mm)	Depth In (mKB)	Depth Out (mKB)	Depth Drilled (m)	Drilling Time (hrs)	BHA ROP (m/hr)	IADC Bit Dull
	379.40	1,421.55	1,059.00	67.25	15.7	1-1-CT-N-X-200-N...

DRILL STRING COMPONENTS

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



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/9/2010
Report #: 6.0
Depth Progress: 218.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 68,667
Cum Cost to Date: 623,760

API/UWI 300/F-77/6010-11715/0		Surface Legal Location F-77/6010-11715/0		Field Name CAMERON HILLS		License No. 2065	
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM		DFS: 3.96 days			
Ground Elevation (m) 720.17		Original KB Elevation (m) 725.92		KB-Casing Flange Distance (m) 4.20			

DRILLING SUMMARY

Depth Start (mKB) 379.40	Depth End (mKB) 475.40	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) 100	Slack-Off Hook Load (daN)	Drilling Time (hrs) 7.25		
Depth Start (mKB) 475.40	Depth End (mKB) 597.40	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) 7.00		

SAFETY CHECKS

Date	Type	Description
2/9/2010	Safety Meeting	BOP DRILL
2/9/2010	Safety Meeting	CONNECTIONS
2/10/2010	Safety Meeting	DRIVE TO AIRPORT FOR DAY OFF.

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	397.40	0.50	0.00	397.36	5.09	0.00	5.09	0.30
2/9/2010	474.40	0.50	0.00	474.36	5.76	0.00	5.76	0.00
2/9/2010	549.40	0.50	0.00	549.36	6.42	0.00	6.42	0.00

FORMATIONS

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



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/10/2010

Report #: 7.0

Depth Progress: 365.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 58,519

Cum Cost to Date: 682,279

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	
Ground Elevation (m) 720.17		Original KB Elevation (m) 725.92	
		KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB) 580.6	Depth End (mKB) 945.6	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather CLEAR		Temperature (°C) -15	Lease Condition FROZEN
Operation at 6am CONTROL DRILLING FT SIMPSON @ 15+ M/HR TO 1030 M			
Operations Summary CONTINUED TO CONTROL DRILL AHEAD INTO FT SIMPSON WITHOUT LOSS OF RETURNS WITH FLOCCED WATER			
Operations Next Report Period DRILL AHEAD, MUD-UP AND LIKELY WIPER TRIP			
Remarks INSTALLED FLOW SHOW SENSOR ON FLOW LINE. CONDUCTED H2S MEETING WITH NEW CREW, SAFETY STAND DOWN MEETING WITH PD SAFETY. DRILLED AHEAD INCIDENT FREE			
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 HALE YARDLEY	Phone Mobile 866 935 3725	
Title Rig Manager	Job Contact ERIC BIGRAS	Phone Mobile 866 672 1751	
Title Drilling Foreman	Job Contact JOSH BLINSTON	Phone Mobile 866 935 3725	

TIME LOG SUMMARY					
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	01:30	1.50	1.50	Drill	DRILL FROM 597 M TO 618 M
01:30	01:45	0.25	1.75	Rig Service	RIG SERVICE FUNCTION HYDRIL ,12 SEC TO CLOSE
01:45	02:45	1.00	2.75	Drill	DRILL FROM 618 M TO 638M
02:45	03:00	0.25	3.00	Deviation survey	DEVIATION SURVEY
03:00	06:00	3.00	6.00	Drill	DRILL FROM 638 M TO 695 M
06:00	06:15	0.25	6.25	Safety meeting	HAND OVER SAFETY MEETING
06:15	07:15	1.00	7.25	Drill	DRILL FROM 695m TO 714m
07:15	07:30	0.25	7.50	Deviation survey	SURVEY @ 713m 0.5 DEG
07:30	08:00	0.50	8.00	Drill	DRILL 200mm HOLE F/ 714m TO 724m
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE(FUNC. PIPE RAMS 2 SEC. TO CLOSE)
08:15	12:45	4.50	12.75	Drill	DRILL 200mm HOLE F/ 724m TO 800m
12:45	13:15	0.50	13.25	Other	INSTALL PASSON FLOW SENSOR
13:15	14:00	0.75	14.00	Drill	DRILL 200mm HOLE F/ 800m TO 809M
14:00	14:15	0.25	14.25	Safety meeting	HANDOVER SAFETY MEETING
14:15	15:45	1.50	15.75	Drill	DRILL FROM 809M TO 831M
15:45	16:00	0.25	16.00	Deviation survey	DEVIATION SURVEY
16:00	16:15	0.25	16.25	Drills/BOP, etc.	DRILLS/BOP, ETC. FUNCTION HYDRIL CLOSED IN 13SECONDS
16:15	18:00	1.75	18.00	Drill	DRILL FROM 831M TO 858M
18:00	18:15	0.25	18.25	Deviation survey	DEVIATION SURVEY
18:15	22:30	4.25	22.50	Drill	DRILL 200mm HOLE F/ 858m TO 934m
22:30	22:45	0.25	22.75	Rig Service	RIG SERVICE(FUNC. PIPE RAMS 3 SEC. TO CLOSE)
22:45	23:15	0.50	23.25	On job training	SAFETY STAND DOWN MEETING W/ PD SAFETY PERSONEL
23:15	23:30	0.25	23.50	Deviation survey	SURVEY @ 933m 0.5 DEG
23:30	00:00	0.50	24.00	Drill	DRILL 200mm HOLE F/ 934m TO 944m



Daily Drilling

Well Name: **PARA ET AL CAMERON F-77**

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

Rig: **245 PRECISION DRILLING, DIV OF PDC**

Report For: **2/10/2010**
 Report #: **7.0**
 Depth Progress: **365.00**

Total AFE Amount: **1,437,304.00**
 AFE Number: **09N010009**
 Daily Cost: **58,519**
 Cum Cost to Date: **682,279**

API/UWI 300/F-77/6010-11715/0		Surface Legal Location F-77/6010-11715/0		Field Name CAMERON HILLS		License No. 2065	
Spud Date 2/6/2010 01:00				Rig Release Date 2/15/2010 8:00:00 AM		DFS: 4.96 days	
Ground Elevation (m) 720.17		Original KB Elevation (m) 725.92		KB-Casing Flange Distance (m) 4.20			

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 3,012	Mud Cum To Date 13,672	
Depth (mKB) 921.55	Density (kg/m³) 1030.0	Funnel Viscosity (s/L) 30	pH 9.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
KELZAN	522.35	1.0
CAUSTIC	44.63	1.0
GEL	14.69	12.0
SAWDUST	6.53	25.0
KELZAN	522.35	1.0
LIME	15.38	1.0
SAWDUST	6.53	5.0
CALCIUM NITRATE	43.63	10.0
ALKAPAM A-1103D	211.93	1.0
CAUSTIC	44.63	2.0
CALCIUM NITRATE	43.63	15.0
SAWDUST	6.53	22.0

MUD PUMPS

Pump Number	Rod Diameter (mm)	Pump Rating (kW)
1	63.5	
Pressure (kPa) 2,100	Slow Speed Check? Yes	Strokes (spm) 69
Pressure (kPa) 2,456	Slow Speed Check? Yes	Strokes (spm) 70
Pressure (kPa) 2,247	Slow Speed Check? Yes	Strokes (spm) 70
Volumetric Efficiency (%)		
2	63.5	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0
Volumetric Efficiency (%)		

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make REED	Model DSX416M-A3PDC	Serial Number 114176	IADC Codes M-2-2-2
Nozzles (mm)	Depth In (mKB) 379.40	Depth Out (mKB) 1,421.55	Depth Drilled (m) 1,059.00	Drilling Time (hrs) 67.25	BHA ROP (m/hr) 15.7	IADC Bit Dull 1-1-CT-N-X-200-N...

DRILL STRING COMPONENTS

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

DRILLING SUMMARY

Depth Start (mKB) 580.55	Depth End (mKB) 725.55	ROP Instantaneous (min/m)	Weight on Bit (daN) 4,000	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) 725.55	Depth End (mKB) 832.55	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		



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/10/2010
Report #: 7.0
Depth Progress: 365.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 58,519
Cum Cost to Date: 682,279

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 4.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

DRILLING SUMMARY						
Depth Start (mKB) 832.55	Depth End (mKB) 945.55	ROP Instantaneous (min/m)	Weight on Bit (daN) 3,200	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) 6.50		

SAFETY CHECKS		
Date	Type	Description
2/10/2010	Safety Meeting	STEAM
2/10/2010	Safety Meeting	OVERHEAD EQUIPMENT
2/11/2010	Safety Meeting	SAFETY STAND DOWN

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 (°)	Azim (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)	
2/10/2010	636.55	0.50	0.00	636.51	7.18	0.00	7.18	0.00	
2/10/2010	714.55	0.50	0.00	714.50	7.86	0.00	7.86	0.00	
2/10/2010	790.55	0.50	0.00	790.50	8.52	0.00	8.52	0.00	
2/10/2010	859.55	0.50	0.00	859.50	9.13	0.00	9.13	0.00	
2/10/2010	934.55	0.50	0.00	934.49	9.78	0.00	9.78	0.00	

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



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/11/2010

Report #: 8.0

Depth Progress: 277.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 53,824

Cum Cost to Date: 736,104

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Release Date 2/15/2010 8:00:00 AM	DFS: 5.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB) 944.4	Depth End (mKB) 1,221.4	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather CLEAR	Temperature (°C) -20	Lease Condition FROZEN	
Operation at 6am DRILLING SLAVE PT @ 15+ M/HR TP 1283 M			
Operations Summary CONTINUED TO CONTROL DRILL FT SIMPSON SHALE; BEGAN TO MUD-UP SYSTEM @ 1100 M. RAN CONFIRMATION WIRELINE SURVEY @ 1179M - .26 DEGREES. DRILLED TO 1221 M, CIRCULATED HOLE CLEAN AND WIPER TRIPPED (SLM) TO SURFACE CASING NO DEPTH CORRECTION, NO FILL ON BOTTOM			
Operations Next Report Period DRILL AHEAD TO TD, BUILD AND MAINTAIN MUD PROPERTIES			
Remarks DRILLED AHEAD INCIDENT FREE			
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 HALE YARDLEY	Phone Mobile 866 935 3725
Title Rig Manager	Job Contact ERIC BIGRAS	Phone Mobile 866 672 1751
Title Drilling Foreman	Job Contact JOSH BLINSTON	Phone Mobile 866 935 3725

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(FUNC. HYDRIL 14 SEC. TO CLOSE)
00:15	04:30	4.25	4.50	Drill	DRILL 200mm HOLE F/ 944m TO 1011m
04:30	04:45	0.25	4.75	Deviation survey	SURVEY @ 1010m 1.0DEG
04:45	06:00	1.25	6.00	Drill	DRILL 200mm HOLE F/ 1011m TO 1030m
06:00	06:15	0.25	6.25	Safety meeting	HANDOVER SAFETY MEETING
06:15	08:00	1.75	8.00	Drill	DRILL FROM 1030M TO 1066M
08:00	09:00	1.00	9.00	Drill	DRILL FROM 1066M TO 1077M
09:00	09:15	0.25	9.25	Rig Service	RIG SERVICE FUNCTION HCR OPENED IN 1 SECOND
09:15	10:00	0.75	10.00	Drill	DRILL FROM 1077M TO 1087M
10:00	10:15	0.25	10.25	Deviation survey	DEVIATION SURVEY
10:15	13:00	2.75	13.00	Drill	DRILL FROM 1087M TO 1134M
13:00	13:15	0.25	13.25	Deviation survey	DEVIATION SURVEY
13:15	16:00	2.75	16.00	Drill	DRILL FROM 1134M TO 1182M
16:00	16:45	0.75	16.75	Drill	DRILL FROM 1182M TO 1192M
16:45	17:15	0.50	17.25	Deviation survey	DEVIATION SURVEY (WIRELINE SURVEY)
17:15	18:00	0.75	18.00	Drill	DRILL FROM 1192M TO 1201M
18:00	18:15	0.25	18.25	Safety meeting	HANDOVER SAFETY MEETING
18:15	19:00	0.75	19.00	Drill	DRILL 200mm HOLE F/ 1201m TO 1221m
19:00	19:30	0.50	19.50	Condition mud & circulate	CONDITION MUD & CIRCULATE
19:30	19:45	0.25	19.75	Other	PUMP PILL THEN BLOW KELLY
19:45	22:30	2.75	22.50	Trip out of hole	CLEAN OUT TRIP TO HWDP(STRAP OUT FLOW CHECKS @ 1209, 1114, 624, 228M)(STRAP=DERRICK 1013.24-TALLY 1012.53=DIFF.0.71 HOLE FILL VOL=ACTUAL 3.82-CALC.2.76=DIFF.1.06)
22:30	00:00	1.50	24.00	Trip in hole	TRIP IN HOLE(FLOW CHECK @ 624m)



Daily Drilling

Well Name: **PARA ET AL CAMERON F-77**

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

Rig: **245 PRECISION DRILLING, DIV OF PDC**

Report For: **2/11/2010**

Report #: **8.0**

Depth Progress: **277.00**

Total AFE Amount: **1,437,304.00**

AFE Number: **09N010009**

Daily Cost: **53,824**

Cum Cost to Date: **736,104**

API/UWI 300/F-77/6010-11715/0		Surface Legal Location F-77/6010-11715/0		Field Name CAMERON HILLS		License No. 2065	
Spud Date 2/6/2010 01:00				Rig Release Date 2/15/2010 8:00:00 AM		DFS: 5.96 days	
Ground Elevation (m) 720.17		Original KB Elevation (m) 725.92		KB-Casing Flange Distance (m) 4.20			

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 9,009
						Mud Cum To Date 22,680
Depth (mKB) 1,205.40	Density (kg/m³) 1040.0	Funnel Viscosity (s/L) 37	pH 9.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES		Description	Cost (/unit)	Consumed
ALKAPAM A-1103D			211.93	1.0
KELZAN			522.35	1.0
ALKAPAM A-1103D			211.93	1.0
MF-VIS			500.41	1.0
CAUSTIC			44.63	2.0
SAWDUST			6.53	5.0
CALCIUM NITRATE			43.63	10.0
MTL SHURE SHALE			195.51	8.0
CAUSTIC			44.63	1.0
DRISPAC PLUS REGULAR			261.75	3.0
SODIUM BICARBONATE			29.46	3.0
STARDRILL			146.16	4.0
LIGNITE			16.58	6.0
MF-VIS			500.41	7.0
BARITE			22.29	15.0

MUD PUMPS			
Pump Number 1	Rod Diameter (mm) 63.5	Pump Rating (kW)	
Pressure (kPa) 2,650	Slow Speed Check? Yes	Strokes (spm) 69	Volumetric Efficiency (%)
Pressure (kPa) 2,666	Slow Speed Check? Yes	Strokes (spm) 70	Volumetric Efficiency (%)
Pressure (kPa) 2,615	Slow Speed Check? Yes	Strokes (spm) 70	Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 63.5	Pump Rating (kW)	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)

BIT SUMMARY						
Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make REED	Model DSX416M-A3PDC	Serial Number 114176	IADC Codes M-2-2-2
Nozzles (mm)	Depth In (mKB) 379.40	Depth Out (mKB) 1,421.55	Depth Drilled (m) 1,059.00	Drilling Time (hrs) 67.25	BHA ROP (m/hr) 15.7	IADC Bit Dull 1-1-CT-N-X-200-N...

DRILL STRING COMPONENTS					
Item Description	ID (mm)	OD (mm)	Jts	Len (m)	Cum Len (m)

DRILLING SUMMARY						
Depth Start (mKB) 944.40	Depth End (mKB) 1,066.40	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) 7.25		
Depth Start (mKB) 1,066.40	Depth End (mKB) 1,182.40	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) 7.25		



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/11/2010

Report #: 8.0

Depth Progress: 277.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 53,824

Cum Cost to Date: 736,104

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 5.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

DRILLING SUMMARY						
Depth Start (mKB) 1,182.40	Depth End (mKB) 1,221.40	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) 2.25		

SAFETY CHECKS		
Date	Type	Description
2/11/2010	Safety Meeting	WORKING AROUND ROTARY BOP EQUIPMENT CONNECTIONS
2/11/2010	Safety Meeting	
2/12/2010	Safety Meeting	

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)	
2/11/2010	1,010.40	1.00	0.00	1,010.34	10.77	0.00	10.77	0.20	
2/11/2010	1,087.40	1.00	0.00	1,087.33	12.12	0.00	12.12	0.00	
2/11/2010	1,133.40	0.50	0.00	1,133.32	12.72	0.00	12.72	0.33	
2/11/2010	1,179.40	0.26	0.00	1,179.32	13.02	0.00	13.02	0.16	

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



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/12/2010

Report #: 9.0

Depth Progress: 199.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 52,185

Cum Cost to Date: 788,288

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 6.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB) 1,222.6	Depth End (mKB) 1,421.6	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather CLEAR	Temperature (°C) -20	Lease Condition FROZEN	

Operation at 6am
RIGGING-UP WEATHERFORD LOGGING TOOL

Operations Summary
DRILLED AHEAD TO 1420 M. CIRCULATED HOLE FOR 4+ BOTTOMS UP, STILL NOT CLEAN, WIPER TRIPPED TO 1200 M, 1.5 M FILL. CIRC ANOTHER HR & INCREASE YP FROM 19.2 TO 21.5

Operations Next Report Period
OPEN HOLE LOG LOG AND LIKELY GET APPROVAL TO RUN CASING

Remarks
50 LITER MUD SPILL FROM SHALE BIN, INAC INSPECTION - CONCERNS ABOUT FLUID IN SUMP, ADVISED WE ARE ATTEMPTING TO MINIMIZE FLUID, AND POLYMER MUDS ARE MORE DIFFICULT TO WORK WITH

Avg Connection Gas (Units) 190	Avg Background Gas (Units) 200	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 JOSH BLINSTON	Phone Mobile 866 935 3725
Title Rig Manager	Job Contact ERIC BIGRAS	Phone Mobile 866 672 1751
Title Drilling Foreman	Job Contact HALE YARDLEY	Phone Mobile 866 935 3725

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 TO BOTTOM
00:30	00:45	0.25	0.75	Condition mud & circulate	FILL PIPE
00:45	01:00	0.25	1.00	Rig Service	RIG SERVICE (FUNC. ANNULAR 13 SEC. TO CLOSE)
01:00	04:15	3.25	4.25	Drill	DRILL 200mm HOLE F/ 1221m TO 1268m
04:15	04:30	0.25	4.50	Deviation survey	SURVEY @ 1267m 0.5DEG
04:30	06:00	1.50	6.00	Drill	DRILL 200mm HOLE F/ 1268m TO 1278m
06:00	06:15	0.25	6.25	Safety meeting	CREW HANDOVER MEETING
06:15	08:00	1.75	8.00	Drill	DRILL 200mm HOLE F/ 1278m TO 1311M
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTION PIPE RAMS CLOSED IN 4 SECONDS
08:15	10:30	2.25	10.50	Drill	DRILL FROM 1311M TO 1345M
10:30	10:45	0.25	10.75	Deviation survey	DEVIATION SURVEY
10:45	16:00	5.25	16.00	Drill	DRILL FROM 1345M TO 1399M
16:00	16:15	0.25	16.25	Rig Service	RIG SERVICE FUNCTION HCR 1SEC OPENED
16:15	18:00	1.75	18.00	Drill	DRILL FROM 1399M TO TD 1415M
18:00	18:15	0.25	18.25	Safety meeting	HANDOVER SAFETY MEETING
18:15	18:30	0.25	18.50	Drill	DRILL 200mm HOLE F/ 1415m TO 1420m
18:30	18:45	0.25	18.75	Deviation survey	SURVEY @ 1419m 0.5 DEG
18:45	20:45	2.00	20.75	Condition mud & circulate	CIRC. HOLE CLEAN & CONDITION MUD
20:45	21:45	1.00	21.75	Trips	CLEAN OUT TRIP(11STDS, FLOW CHECKS @ 1409, 1314m HOLE FILL VOL. = ACTUAL 1.58- CALC. 0.57= DIFF. 1.01)
21:45	22:45	1.00	22.75	Trip in hole	RUN IN 11 STDS TO BOTTOM
22:45	00:00	1.25	24.00	Condition mud & circulate	CIRCULATE HOLE CLEAN & CONDITION MUD FOR LOGGING



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

**Business Unit: NE BC & NWT COU
Rig: 245 PRECISION DRILLING, DIV OF PDC**

**Report For: 2/12/2010
Report #: 9.0
Depth Progress: 199.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 52,185
Cum Cost to Date: 788,288**

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 6.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

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 9,600	Mud Cum To Date 32,280	
Depth (mKB) 1,421.55	Density (kg/m³) 1040.0	Funnel Viscosity (s/L) 72	pH 10.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
DRISPAC PLUS REGULAR	261.75	1.0
STARDRILL	146.16	2.0
LIGNITE	16.58	3.0
DRISPAC PLUS REGULAR	261.75	3.0
CAUSTIC	44.63	4.0
STARDRILL	146.16	6.0
MF-VIS	500.41	6.0
LIGNITE	16.58	9.0
MF-VIS	500.41	8.0

MUD PUMPS

Pump Number	Rod Diameter (mm)	Pump Rating (kW)
1	63.5	
Pressure (kPa) 2,730	Slow Speed Check? Yes	Strokes (spm) 69
		Volumetric Efficiency (%)
Pressure (kPa) 2,665	Slow Speed Check? Yes	Strokes (spm) 70
		Volumetric Efficiency (%)
Pressure (kPa) 2,665	Slow Speed Check? Yes	Strokes (spm) 70
		Volumetric Efficiency (%)
2	63.5	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0
		Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0
		Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0
		Volumetric Efficiency (%)

BIT SUMMARY

Bit Run 2	Bit Type Bit	Size (mm) 200.0	Make REED	Model DSX416M-A3PDC	Serial Number 114176	IADC Codes M-2-2-2
Nozzles (mm)	Depth In (mKB) 379.40	Depth Out (mKB) 1,421.55	Depth Drilled (m) 1,059.00	Drilling Time (hrs) 67.25	BHA ROP (m/hr) 15.7	IADC Bit Dull 1-1-CT-N-X-200-N...

DRILL STRING COMPONENTS

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

DRILLING SUMMARY

Depth Start (mKB) 1,222.55	Depth End (mKB) 1,312.55	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) 6.50		
Depth Start (mKB) 1,312.55	Depth End (mKB) 1,400.55	ROP Instantaneous (min/m)	Weight on Bit (daN) 4,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 95	Motor RPM (rpm)	Bit RPM (rpm) 95	Slack-Off Hook Load (daN)	Drilling Time (hrs) 7.50		
Depth Start (mKB) 1,400.55	Depth End (mKB) 1,421.55	ROP Instantaneous (min/m)	Weight on Bit (daN) 4,000	Drilling Torque	Flow Rate (m³/min)	dP (SPP) (kPa)
RPM (rpm) 95	Motor RPM (rpm)	Bit RPM (rpm) 95	Slack-Off Hook Load (daN)	Drilling Time (hrs) 2.00		

SAFETY CHECKS

Date	Type	Description
2/12/2010	Safety Meeting	WILDLIFE



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/12/2010
Report #: 9.0
Depth Progress: 199.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 52,185
Cum Cost to Date: 788,288

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 6.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

SAFETY CHECKS		
Date	Type	Description
2/12/2010	Safety Meeting	DOWN HOLE TORQUE
2/13/2010	Safety Meeting	TRIPPING

SAFETY INCIDENTS		
Date	Comment	Type

WELL CONTROL SUMMARY				
Run Date	Casing Description	OD (mm)	Set Depth (mKB)	P (LO) (kPa)

SURVEY DATA								
Date	MD (mKB)	Incl (°)	Azim (°)	TVD (mKB)	NS (m)	EW (m)	VS (m)	DLS (°/30m)
2/12/2010	1,268.55	0.50	0.00	1,268.47	13.62	0.00	13.62	0.08
2/12/2010	1,345.55	1.00	0.00	1,345.46	14.62	0.00	14.62	0.19
2/12/2010	1,421.55	0.50	0.00	1,421.46	15.62	0.00	15.62	0.20

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



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/13/2010

Report #: 10.0

Depth Progress: 0.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 64,039

Cum Cost to Date: 852,327

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 7.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB) 1,421.6	Depth End (mKB) 1,421.6	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather CLEAR	Temperature (°C) -10	Lease Condition FROZEN	
Operation at 6am RUNNING 140 MM PROD. CASING TO 360 M			
Operations Summary TRIPPED OUT AND LOGGED WELL, COMBO LOG TO BOTTOM - 1413 M @ 08:00. LOGGED 60 M REPEAT SECTION AND TAGGED BOTTOM @ 1410.6 M CONFIRMATION OF WELL @ 11:20, TRIPPED IN HOLE, CIRCULATED WELL CLEAN, LAID DOWN DRILL STRING			
Operations Next Report Period RUN PRODUCTION CASING, CIRCULATE AND CEMENT			
Remarks COORDINATED EFFORTS TO OBTAIN A SHALE DRYER TO AVERT UNDESIRED WATER TRANSFERRED TO SUMP			
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	Job Contact	Phone Mobile

TIME LOG SUMMARY					
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	00:15	0.25	0.25	Other	PUMP PILL & BLOW KELLY
00:15	04:45	4.50	4.75	Trip out of hole	POOH FOR LOGGING(HOLE FILL VOL. = ACTUAL 8.88- CALC. 6.20=DIFF. 2.68 FLOW CHECKS @ 1409, 1315, 673, 221, 0M FUNC. BLIND RAMS 4 SEC. TO CLOSE)
04:45	05:00	0.25	5.00	Rig Service	RIG SERVICE FUNCTION BLIND RAMS 4 SEC TO CLOSE
05:00	05:15	0.25	5.25	Pre-job safety	SAFETY MEETING W/ WEATHERFORD
05:15	06:00	0.75	6.00	Wireline logs	RIG UP LOGGERS
06:00	06:15	0.25	6.25	Safety meeting	SAFETY MEETING
06:15	08:00	1.75	8.00	Logging - Open hole logs	LOGGING - OPEN HOLE LOGS, LOG TOOLS ARE STI/MDA/SPD/CNT/UGR/MRT/DAC TIME IN BOTTOM 8:00AM LOGGERS DEPTH 1413m
08:00	08:15	0.25	8.25	Rig Service	RIG SERVICE FUNCTION PIPE RAMS CLOSED IN 4SECONDS
08:15	15:00	6.75	15.00	Logging - Open hole logs	LOGGING - OPEN HOLE LOGS RIG OUT LOG TOOLS
15:00	16:00	1.00	16.00	Trip in hole	TRIP IN HOLE FLOW CHECK @ 385M 10 min
16:00	18:00	2.00	18.00	Trip in hole	TRIP IN HOLE FLOW CHECKS @ 724M 10 min
18:00	18:15	0.25	18.25	Safety meeting	HANDOVER SAFETY MEETING
18:15	20:15	2.00	20.25	Condition mud & circulate	WASH TO BOTTOM
20:15	20:30	0.25	20.50	Rig Service	RIG SERVICE FUNCTION HYDRILL 13 SEC TO CLOSE
20:30	20:45	0.25	20.75	Lay down drill pipe	LAY DOWN 3 SINGLES
20:45	21:45	1.00	21.75	Condition mud & circulate	WASH TO BOTTOM & CIRC. HOLE CLEAN
21:45	22:00	0.25	22.00	Other	PUMP PILL & BLOW KELLY
22:00	00:00	2.00	24.00	Lay down drill pipe	LAY DOWN DP(FLOW CHECKS @ 1416, 1322M)



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

**Business Unit: NE BC & NWT COU
Rig: 245 PRECISION DRILLING, DIV OF PDC**

**Report For: 2/13/2010
Report #: 10.0
Depth Progress: 0.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 64,039
Cum Cost to Date: 852,327**

API/UWI 300/F-77/6010-11715/0		Surface Legal Location F-77/6010-11715/0		Field Name CAMERON HILLS		License No. 2065	
Spud Date 2/6/2010 01:00				Rig Release Date 2/15/2010 8:00:00 AM		DFS: 7.96 days	
Ground Elevation (m) 720.17		Original KB Elevation (m) 725.92		KB-Casing Flange Distance (m) 4.20			

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 1,325	Mud Cum To Date 33,605	
Depth (mKB) 1,421.55	Density (kg/m³) 1050.0	Funnel Viscosity (s/L) 76	pH 10.5	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES			Cost (/unit)	Consumed
Description				
BARITE			22.29	15.0
CAUSTIC			44.63	1.0
MF-VIS			500.41	1.0
BARITE			22.29	20.0

MUD PUMPS				
Pump Number 1	Rod Diameter (mm) 63.5		Pump Rating (kW)	
Pressure (kPa) 2,700	Slow Speed Check? Yes	Strokes (spm) 69	Volumetric Efficiency (%)	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)	
Pressure (kPa) 3,750	Slow Speed Check? Yes	Strokes (spm) 70	Volumetric Efficiency (%)	
Pump Number 2	Rod Diameter (mm) 63.5		Pump Rating (kW)	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	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)	

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
2/13/2010	Safety Meeting	DRIVING
2/13/2010	Safety Meeting	SLIPS AND FALLS
2/14/2010	Safety Meeting	LAYING DOWN PIPE

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)



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/13/2010

Report #: 10.0

Depth Progress: 0.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 64,039

Cum Cost to Date: 852,327

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 7.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

FORMATIONS

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



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/14/2010

Report #: 11.0

Depth Progress: 0.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 126,475

Cum Cost to Date: 978,802

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 8.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations

Depth Start (mKB) 1,421.6	Depth End (mKB) 1,421.6	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather HIGH CLOUD	Temperature (°C) -8	Lease Condition FROZEN	

Operation at 6am
RIGGING OUT

Operations Summary
LAID DOWN DRILL STRING, RAN AND CEMENTED AND PRESSURE TESTED PRODUCTION CASING. RIGGED OUT, SET SLIPS, CUT CASING AND INSTALLED TUBING HEAD

Operations Next Report Period
RIG OUT, RIG RELEASE AND BEGIN TO MOVE TO N-06

Remarks
AT ABOUT 22:30 ADVISED OF 250 LITER MUD SPILL FROM PUMP SUCTION, GATE ACCIDENTALLY OPENED ON NEARLY EMPY TANK. MUD VACUUMED UP. NO ACCIDENTS

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 HALE YARDLEY	Phone Mobile 866 935 3725
Title Drilling Foreman	Job Contact JOSH BLINSTON	Phone Mobile 866 935 3725
Title Rig Manager	Job Contact ERIC BIGRAS	Phone Mobile 866 672 1751

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	04:30	4.50	4.50	Lay down drill pipe	LAY DOWN STRING(FLOW CHECKS @ 709, 198,0m HOLE FILL VOL. = ACTUAL 8.43 - CALC. 6.20=DIFF. 2.23)
04:30	04:45	0.25	4.75	Rig Service	RIG SERVICE(FUNC. BLIND RAMS 3 SWEC. TO CLOSE)
04:45	05:15	0.50	5.25	Rig up/down to run casing	RIG UP TO RUN CASING ELEVATOR CERT. #EDM 0303 5566 10243LT TESTED TO 225 TON
05:15	05:30	0.25	5.50	Pre-job safety	SAFETY MEETING W/ TONG HAND
05:30	06:00	0.50	6.00	Run casing & cementing	RUN 139.7mm CASING
06:00	06:15	0.25	6.25	Safety meeting	CREW CHANGE HANDOVER
06:15	08:00	1.75	8.00	Run casing & cementing	RUN 139.7mm CASING
08:00	12:00	4.00	12.00	Run casing	RUN CASING.
12:00	12:15	0.25	12.25	Rig up/down to run casing	RIG OUT POWER TONGS AND BRAKE CIRCULATION.
12:15	13:45	1.50	13.75	Condition mud & circulate	CONDITION MUD & CIRCULATE.
13:45	14:00	0.25	14.00	Safety meeting	SAFETY MEETING W/SANJEL PRIOR TO CEMENT LONG STRING.
14:00	15:45	1.75	15.75	Cementing	CEMENTING W SANJEL,CEMENT PLUG IN PLACE @ 3:30PM .5M3 OF GOOD CEMENT RETURN, PRESSURE TESTED PLUG TO 21MPA FOR 10 MIN.
15:45	16:00	0.25	16.00	Cementing	RAN 113 JTS OF 139.7 MMK,20.83KG/M J-55 ST & C LENTH 1417.68m TO 1417mkb CIRCULATED AND CEMENT W/3m3 WATER,3m3SCAV, 28.68m3 (23.9 T OF FILL AND 7.06m3 (8T) OF TAIL CEMENT).
16:00	16:15	0.25	16.25	Cementing	CEMENTING(TEAR OUT CEMENTERS)
16:15	18:00	1.75	18.00	Wait on cement	WAIT ON CEMENT
18:00	18:15	0.25	18.25	Safety meeting	HANDOVER SAFETY MEETING
18:15	22:00	3.75	22.00	Nipple down BOPs	FLUSH B.O.P. STACK W/CEMENTER,NIPPLE DOWN BOPS,HCR,KILL LINE,FLOW T,FLOW LINE AND SET SLIPS AT STRING W/T,CUT CASING AND LAY OUT.
22:00	22:15	0.25	22.25	Safety meeting	SAFETY MEETING W/STREAM FLOW PRIOR TO NIPPLE UP WELL HEAD.



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/14/2010

Report #: 11.0

Depth Progress: 0.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 126,475

Cum Cost to Date: 978,802

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00	Rig Release Date 2/15/2010 8:00:00 AM	DFS: 8.96 days	
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

TIME LOG SUMMARY

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
22:15	00:00	1.75	24.00	Other	NIPPLE UP WELD HEAD W/ STREAM FLOW

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 925	Mud Cum To Date 34,530		
Depth (mKB) 1,421.55	Density (kg/m³) 1050.0	Funnel Viscosity (s/L) 48	pH 10.0	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES

Description	Cost (/unit)	Consumed
DESCO	80.46	6.0
CELLOPHANE	72.40	5.0
DESCO	80.46	1.0

MUD PUMPS

Pump Number	Rod Diameter (mm)	Pump Rating (kW)
1	63.5	
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	0
Pressure (kPa) 1,628	Yes	70
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	0
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	0
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	0
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	0
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	0
Pressure (kPa)	Slow Speed Check?	Strokes (spm)
	No	0

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)

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
2/14/2010	Safety Meeting	SAFETY CABLES
2/14/2010	Safety Meeting	SHUTIN PROCEDURES
2/15/2010	Safety Meeting	TEAR OUT

SAFETY INCIDENTS

Date	Comment	Type

WELL CONTROL SUMMARY

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



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig: 245 PRECISION DRILLING, DIV OF PDC

Report For: 2/14/2010

Report #: 11.0

Depth Progress: 0.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 126,475

Cum Cost to Date: 978,802

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00	Rig Release Date 2/15/2010 8:00:00 AM	DFS: 8.96 days	
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

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 F-77

**Business Unit: NE BC & NWT COU
Rig: 245 PRECISION DRILLING, DIV OF PDC**

**Report For: 2/15/2010
Report #: 12.0
Depth Progress: 0.00
Total AFE Amount: 1,437,304.00
AFE Number: 09N010009
Daily Cost: 40,922
Cum Cost to Date: 1,019,724**

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 9.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB) 1,421.6	Depth End (mKB) 1,421.6	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather		Temperature (°C) -20	Lease Condition FROZEN

Operation at 6am
TRANSFERRING DRILLING FLUID TO N-06 LOCATION

Operations Summary
COMPLETED INSTALLATION OF TUBING HEAD, CLEANED MUD TANKS AND RIGGED OUT. RIG RELEASED 08:00 15 FEB '10. LOWERED DERRICK @ 08:00

Operations Next Report Period
COMPLETE RIG MOVE TO N-06 LOCATION, RELEASE ALL TRUCKS BUT A BED TRUCK AND SUPERVISOR

Remarks
MOVED RENTALS, WELLSITE TRAILERS TO NEW LOCATION; N-06 UNABLE TO SPUD AS APPROVAL NOT RECEIVED

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 JOSH BLINSTON	Phone Mobile 866 935 3725

TIME LOG SUMMARY					
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	02:00	2.00	2.00	Tear down	TEAR OUT FLARE TANK, AND ASSOCIATED LINES, CLOSE UP MANIFOLD SHACK, PUT LINES AWAY, CLOSE UP SHACKS
02:00	02:15	0.25	2.25	Pre-job safety	SAFETY MEETING W/ CREW
02:15	03:15	1.00	3.25	Slip/Cut drilling line	SLIP & CUT 12.8m
03:15	04:00	0.75	4.00	Rig up	RIG UP FLOOR TO LOWER TOP SECTION & DERRICK
04:00	06:00	2.00	6.00	Tear down	CONTINUE TO TEAR OUT REST OF RIG FOR MOVE
06:00	06:15	0.25	6.25	Safety meeting	CREW CHANGE HAND OVER MEETING
06:15	07:30	1.25	7.50	Tear down	INSPECT DERRICK PRIOR TO LAY DOWN E.B AND P.I. + LAY OUT DERRICK
07:30	08:00	0.50	8.00	Tear down	TEAR DOWN
08:00	16:00	8.00	16.00	Tear down	TEAR DOWN + MOVE ALL 3rd PARTY EQUIPMENT INTO NEW LOCATION AND W/ON WELL LICENSE
16:00	00:00	8.00	24.00	Other	W/ON MORNING TO MOVE BUILDINGS INTO NEW LOCATION (W/ON WELL LICENSE)

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 5,336	Mud Cum To Date 39,866	
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES		
Description	Cost (/unit)	Consumed
ALKAPAM A-1103D	211.93	9.0
BARITE	22.29	-38.0
CALCIUM NITRATE	43.63	-45.0
CAUSTIC	44.63	1.0
DETERGENT	62.35	-1.0
ENVIROFLOC	43.63	107.0
KELZAN	522.35	4.0
LIGNITE	16.58	9.0
LIME	15.38	-1.0
MF-VIS	500.41	-1.0



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig:

Report For: 2/16/2010

Report #: 13.0

Depth Progress: 0.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 21,491

Cum Cost to Date: 1,041,215

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 10.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Daily Operations			
Depth Start (mKB) 1,421.6	Depth End (mKB) 1,421.6	Target Formation Sulphur Pt	Target Depth (mKB) 1,400.00
Weather CLEAR	Temperature (°C) -13	Lease Condition OK	

Operation at 6am
READY TO RATHOLE

Operations Summary
MOVED THE RIG PACKAGE AND ALL RENTAL LOADS FROM F-77 TO N-06 LOCATION. RIG CREWS MAKING MINOR REPAIRS AND PERFORMING RIG MAINTENANCE. HAULED THE REMAINING VOLUME FROM THE F-77 TANK FARM AND PUT INTO STORAGE ON N-06 LOCATION

Operations Next Report Period
IF APPROVED, DRILL RATHOLE AND CONDUCTOR, HAUL DIRTY SNOW FROM F-77 TO BINS ON N-06

Remarks
ABOUT 145M3 OF DRILLING MUD AND MIX WATER IN STORAGE ON N-06
RELEASED ALL MULLEN TRUCKS EXCEPT TWO BED TRUCKS AND ONE SUPERVISOR
RATHOLE RIG CREW IN CAMP ON THE READY
ROAD NEEDS WORK
RIG CREW AND RIG MANAGER CREW CHANGING TODAY
EXPECT SITE INSPECTION FROM NEB 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 Drilling Foreman	Job Contact JOSH BLINSTON	Phone Mobile 866 935 3725

TIME LOG SUMMARY					
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 2	Comment
00:00	08:00	8.00	8.00	Other	W/ON WELL LICENSE
08:00	08:15	0.25	8.25	Safety meeting	SAFETY MEETING W/MULLEN
08:15	16:00	7.75	16.00	Move rig	MOVE ALL RIG LOADS ON TO N-06
16:00	00:00	8.00	24.00	Other	OTHER W/ON WELL LICENSE

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 39,866	
Depth (mKB)	Density (kg/m³)	Funnel Viscosity (s/L)	pH	PV Override (cp)	YP Override (Pa)	

MUD ADDITIVES		
Description	Cost (/unit)	Consumed

MUD PUMPS			
Pump Number 1	Rod Diameter (mm) 63.5	Pump Rating (kW)	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pump Number 2	Rod Diameter (mm) 63.5	Pump Rating (kW)	
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)
Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	Volumetric Efficiency (%)



Daily Drilling

Well Name: PARA ET AL CAMERON F-77

Business Unit: NE BC & NWT COU

Rig:

Report For: 2/16/2010

Report #: 13.0

Depth Progress: 0.00

Total AFE Amount: 1,437,304.00

AFE Number: 09N010009

Daily Cost: 21,491

Cum Cost to Date: 1,041,215

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Spud Date 2/6/2010 01:00		Rig Release Date 2/15/2010 8:00:00 AM	DFS: 10.96 days
Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92	KB-Casing Flange Distance (m) 4.20	

Pressure (kPa)	Slow Speed Check? No	Strokes (spm) 0	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)	

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)		

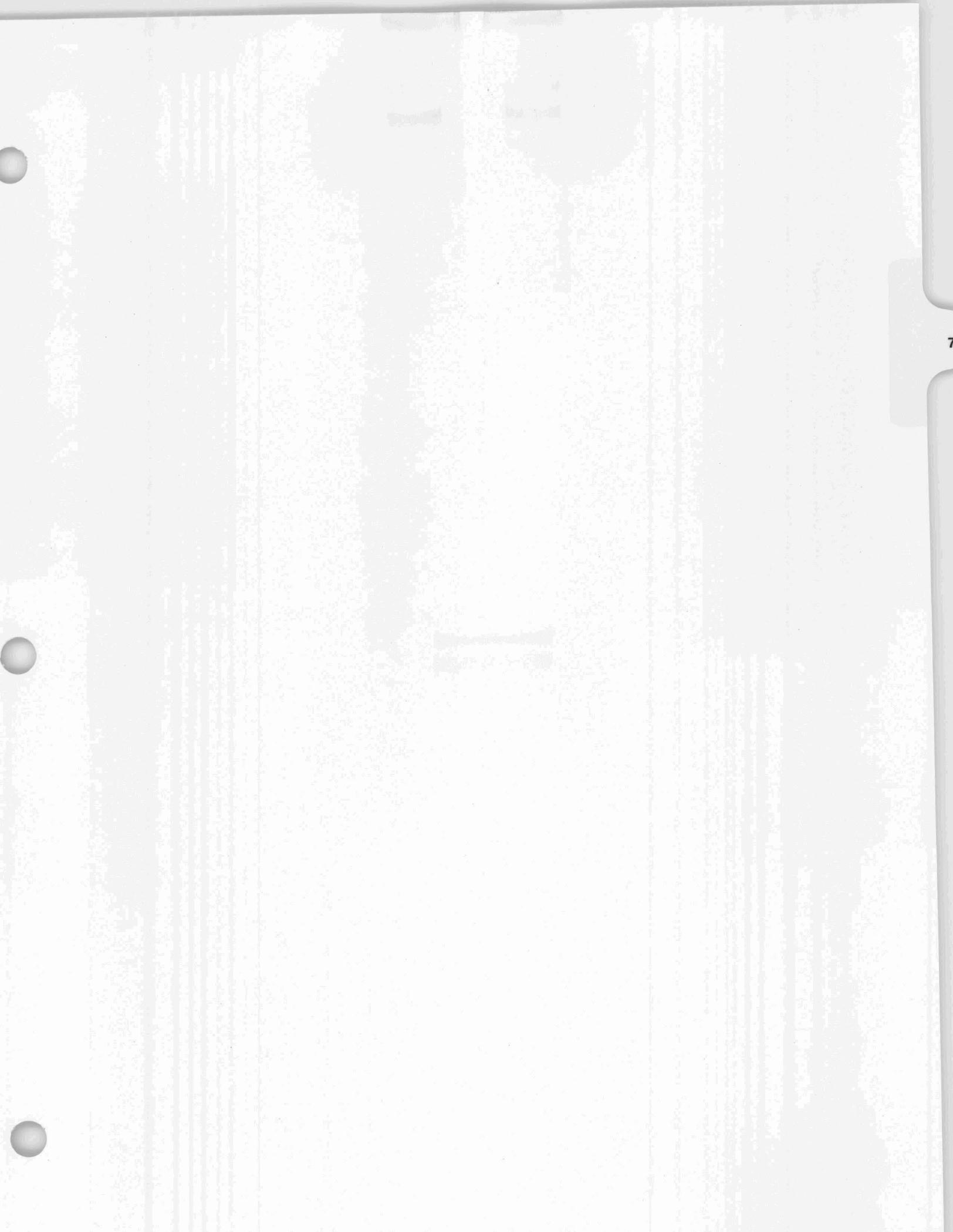
SAFETY CHECKS		
Date	Type	Description

SAFETY INCIDENTS		
Date	Comment	Type

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)





FRONT PAGE SUMMARY		Hour Sheet Serial Number 0152245_20100204_1A	Vendor Software Version Pason	Year 2010	Month 02	Day 04
Log No.	Well Name	Surface Location	Prov	Loc Type	Utility Well Is	Kelly Bishopp
246	Para et al Cameron F-77	6626 23-35N 117-29-04 W	NT	AT-Case	300F116010117150	4
License No.	Operator	Contractor	Well Type	Re-Entry		
1221	PARAMOUNT RESOURCES LTD	PRECISION DRILLING, DIV OF PDC	VERT	<input type="checkbox"/>		
	Operator's AFF	Contractor's Job No	Spud Date	Time		
	OPNO 10009	35-4				
	Signature of Operator Representative JOSH BLINSTON	Signature of Contractor's Rig manager ERICK BIGRAS	Rig Release Date	Time		

DAILY CHECKS		OP RM
1) Daily Walk Around Inspection		
2) Drilled Inspection - Walkway/Clamp Check Log		
3) H2S Signs Posted & Rechecked		
4) Well Licence & Stock Diagram Posted		
5) Flare Lines Staked		
6) BOP Trng Performed		
7) Visually Inspected BOPs - Flare Lines & Bypass Lines		
8) BOP Trng Performed		
9) Rig Site Health & Safety Meeting (one/interim/month)		
10) Critical Path Safety Inspection Check List (one/shift/month)		
11) Mast Inspection before Raising or Lowering		
12) Crown Saver Checked		
13) Motor Fails Checked		

FUEL @ 08:00 HOURS	
Rig	
Boiler	
Op Fuel	
WEATHER	
Time	06:30
Temp	-38
Current Conditions	CLEAR
Wind Direction	N/E
Wind Strength	UP TO 19 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)		
DP	4"FH	SS95	102	65	23,8300	185			
DC	4.5"XH	DC	158	58	134,0000	18			
HW	4"FH	HWDP	102	65	41,6400	6			

MUD PUMPS		
No.	Make	Stroke Length (mm)
1	BPMP	229
2	BPMP	229

GENERAL EQUIPMENT & SERVICES		
Description	Hours	
MUD PUMP	24.00	
MANIFOLD SHACK	24.00	
LOADER	24.00	

SHALE SHAKERS											
No.	Top Screen	Middle Screen	Middle Screen	Bottom Screen							
Size	Changed	New	Size	Changed	New	Size	Changed	New	Size	Changed	New
1	110	RU	RU	B4	RU	K2					

TOUR 1 SIGNATURE OF DRILLER: ROMEO DASTOUS START TIME: 00:00 END TIME: 08:00

DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
	Drill Pipe			
	Standards (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	
Jets (mm)	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

MUD RECORD	
Mud Type	Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>
Time	
Density (kg/m ³)	
Funnel Viscosity (cP)	
Fluid Loss (cm ³)	
pH	
Location	
Depth (m)	
PVT (m ³)	

MUD MATERIALS ADDED		
Product	Amount	Type

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)

HOLE CONDITION			
Hole Drag Up (kdaN)			
Hole Drag Down (kdaN)			
Torque at Bottom (Nm)			
Fill on Bottom (m)			

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	07:45	7.75	22	TEAR DOWN FOR MORNING MOVE
07:45	08:00	0.25	21	HAND OVER MEETING

TOUR 2 SIGNATURE OF DRILLER: JOE LEADLEY START TIME: 08:00 END TIME: 16:00

DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
	Drill Pipe			
	Standards (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	
Jets (mm)	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

MUD RECORD	
Mud Type	Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>
Time	
Density (kg/m ³)	
Funnel Viscosity (cP)	
Fluid Loss (cm ³)	
pH	
Location	
Depth (m)	
PVT (m ³)	

MUD MATERIALS ADDED		
Product	Amount	Type

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)

HOLE CONDITION			
Hole Drag Up (kdaN)			
Hole Drag Down (kdaN)			
Torque at Bottom (Nm)			
Fill on Bottom (m)			

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
08:00	08:15	0.25	21	SAFETY MEETING W/MULLEN AND CREW MOVE FROM H-06 TO F-77
08:15	16:00	7.75	1A	MOVE RIG W/MULLEN

TOUR 3 SIGNATURE OF DRILLER: ROMEO DASTOUS START TIME: 16:00 END TIME: 24:00

DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
	Drill Pipe			
	Standards (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	
Jets (mm)	
Depth Out (m)	
Depth In (m)	
Total Drilled (m)	
Hrs Run Today	
Cumulative Hrs Run	
Entry Date	

MUD RECORD	
Mud Type	Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>
Time	
Density (kg/m ³)	
Funnel Viscosity (cP)	
Fluid Loss (cm ³)	
pH	
Location	
Depth (m)	
PVT (m ³)	

MUD MATERIALS ADDED		
Product	Amount	Type

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)

HOLE CONDITION			
Hole Drag Up (kdaN)			
Hole Drag Down (kdaN)			
Torque at Bottom (Nm)			
Fill on Bottom (m)			

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
16:00	18:30	2.50	1A	MOVE RIG W/MULLEN
18:30	18:45	0.25	21	HAND OVER MEETING
18:45	21:30	2.75	1	RIG UP POWER, STEAM AND ALL RELATED EQUIPMENT
21:30	21:45	0.25	21	SAFETY MEETING W/CREW PRIOR TO RAISE DERRICK
21:45	22:45	1.00	1	VISUALLY INS DERRICK BEFORE TO RAISE DERRICK BY ROMEO DASTOUS AND ERICK BIGRAS, DERRICK RAISED @ 22:30 HRS
22:45	23:00	0.25	21	SAFETY MEETING W/WELDER
23:00	24:00	1.00	25	WELD DIVERTER FLANGE AND FLOW SHOW

**FRONT PAGE SUMMARY**

Rig No.	Well Name	Surface Location	Prov	Lease Type	Unique Well Id	Kelly Bushing
245	Para et al Cameron F-77	60° 06' 28.30N 117° 29' 24.70W	NT	AT-Cont	300F116010117150	4
License No.	Operator	Contractor	Well Type	Re-Entry		
1221	PARAMOUNT RESOURCES LTD	PRECISION DRILLING, DIV OF PDC				
	Operator's Aff	Contractor's Job No	Start Date	Time		
	09N010009	854	2010/02/06	01.00		
	Signature of Operator Representative	Signature of Contractor's Rig manager	Rig Release Date	Time		
	HALE YARDLEY	ERICK BIGRAS				

DAILY CHECKS

1	Daily Walk Around Inspection	KV	ER
2	Detailed Inspection - Visually Using Check List	KV	ER
3	H2S Signs Posted if Sounded	KV	ER
4	Well License & Slick Diagram Posted	KV	ER
5	Flare Lines Staked	KV	ER
6	SDP Drills Performed	KV	ER
7	Visually Inspected BOPs - Flare Lines & Degasser Lines	KV	ER

FUEL @ 08:00 HOURS

Rig	Boiler	Op Fuel

DRILL PIPE

Category	Thread Type	Grade	OD (mm)	ID (mm)	Linear Mass (kg/m)	No. of Joints	Tool Joint OD (mm)
DP	4"FH	SS95	102	85	23.8300	185	
DC	4.5" YH	DC	158	58	134.0000	18	
HAW	4" FH	HWDP	102	85	41.6400	6	

MUD PUMPS

No.	Make	Stroke Length (mm)	Description	Hours
1	BPMPM	229	MUD PUMP	24.00
2	BPMPM	229	DIVERTER LOADER	24.00

GENERAL EQUIPMENT & SERVICES

No.	Make	Stroke Length (mm)	Description	Hours
1	BPMPM	229	MUD PUMP	24.00
2	BPMPM	229	DIVERTER LOADER	24.00

SHALE SHAKERS

No.	Size	Top Screen	Middle Screen	Bottom Screen
1	110	80	60	40

TOUR 1

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	311		0.30
1	BIT SUB	203		0.71
2	DC (8.00 IN)	203		18.02
1	BELL SUB	158		0.76
1	DC (6.25 IN)	158		8.78
1	TELEDRIFT	158		2.62
5	DC (6.25 IN)	158		45.80

SIGNATURE OF DRILLER

ROMEO DASTOUS	
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MUD MATERIALS ADDED

Product	Amount	Type
SAWDUST	30	SACK
MTL SURE SHALE	10	PAIL
KELZAN	2	SACK
HYPERDRILLAF247RD	2	SACK

METRES DRILLED

From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
0	84	DRILL	180	2

HOLE CONDITION

Hole Drag Up (kdaN)	0
Hole Drag Down (kdaN)	0
Torque at Bottom (Nm)	0
Fill on Bottom (m)	0

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	00:15	0:25	21	PRE SPUD SAFETY MEETING CREW, RIG MANAGER AND WELL SUPERVISOR
00:15	00:45	0:30	25	HAZARD HUNT WITH CREW
00:45	01:00	0:25	7	RIG SERVICE/FUNCTION HYDRILL 18sec to close
01:00	02:00	1:00	2	DRILL 311mm HOLE F/ 27M TO 31M
02:00	02:15	0:25	7	RIG SERVICE & SET CROWN SAVER
02:15	04:45	2:50	2	DRILL FROM 31M TO 51M
04:45	05:00	0:25	10	DEVIATION SURVEY
05:00	06:00	1:00	2	DRILL FROM 51M TO 60 M
06:00	06:15	0:25	21	HAND OVER SAFETY MEETING
06:15	07:15	1:00	2	DRILL FROM 60 M TO 78M
07:15	07:30	0:25	10	DEVIATION SURVEY 1DEG @ 48M
07:30	08:00	0:50	2	DRILL 311mm HOLE F/ 78m TO 84m

START TIME

00:00	END TIME	08:00
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TOUR 2

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	311		0.30
1	BIT SUB	203		0.71
2	DC (8.00 IN)	203		18.02
1	BELL SUB	158		0.76
1	DC (6.25 IN)	158		8.78
1	TELEDRIFT	158		2.62
5	DC (6.25 IN)	158		45.80
1	PONY DC	158		4.80
1	JARS-HYD	158		5.26
7	DC (6.25 IN)	158		64.07

SIGNATURE OF DRILLER

JOE LEADLEY	
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MUD MATERIALS ADDED

Product	Amount	Type
HYPERDRILLAF247RD	1	SACK
MILL ZAN	2	SACK
SAWDUST	20	SACK

METRES DRILLED

From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
84	159	DRILL	160	4

HOLE CONDITION

Hole Drag Up (kdaN)	0
Hole Drag Down (kdaN)	0
Torque at Bottom (Nm)	0
Fill on Bottom (m)	0

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
08:00	08:15	0:25	7	RIG SERVICE/FUNC. HYDRILL 19 SEC TO CLOSE
08:15	08:45	0:50	2	DRILL 311mm HOLE F/ 84m TO 88m
08:45	09:00	0:25	25	FIX FLOW TEE
09:00	11:00	2:00	2	DRILL 311mm HOLE F/ 88m TO 107m
11:00	11:15	0:25	10	SURVEY 77m @ 0.5DEG
11:15	13:30	2:25	2	DRILL 311mm HOLE F/ 107m TO 134m
13:30	13:45	0:25	10	SURVEY 104m @ 0.5DEG
13:45	16:00	2:25	2	DRILL 311mm HOLE F/ 134m TO 159m ENCOUNTER COARSE SAND FROM 152M TO 172M.

START TIME

08:00	END TIME	16:00
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TOUR 3

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	311		0.30
1	BIT SUB	203		0.71
2	DC (8.00 IN)	203		18.02
1	BELL SUB	158		0.76
1	DC (6.25 IN)	158		8.78
1	TELEDRIFT	158		2.62
5	DC (6.25 IN)	158		45.80
7	PONY DC	158		4.80
1	JARS-HYD	158		5.26
8	DC (6.25 IN)	158		72.93
1	X/O	158		0.27
15	HWDP(4.0 IN)	135		55.44

SIGNATURE OF DRILLER

ROMEO DASTOUS	
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MUD MATERIALS ADDED

Product	Amount	Type
KELZAN	2	SACK
CELLOPHANE	1	SACK
KWIKSEAL	3	SACK
SAWDUST	40	SACK

METRES DRILLED

From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
159	236	DRILL	150	3

HOLE CONDITION

Hole Drag Up (kdaN)	3
Hole Drag Down (kdaN)	2
Torque at Bottom (Nm)	0
Fill on Bottom (m)	0

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
16:00	16:30	0:50	5	BUILD VOL. & VIS FOR LOSSES
16:30	17:30	1:00	2	DRILL 311mm HOLE F/ 159m TO 171m
17:30	18:00	0:50	7	RIG SERVICE/FUNC. DIVERTER 20 SEC TO CLOSE
18:00	18:15	0:25	21	HAND OVER SAFETY MEETING
18:15	23:45	5:50	2	DRILL 311mm HOLE F/ 171m TO 236 M
23:45	24:00	0:25	10	DEVIATION SURVEY ACCU TIME

START TIME

16:00	END TIME	24:00
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FRONT PAGE SUMMARY		Four Sheet Serial Number	Vendor Software Version	Year	Month	Day
		0525245_20100207_1D	Pason	2010	02	07
Rig No.	Well Name	Surface Location	Phase	Line Type	Unique Well ID	Kelly Stringing
245	Para et al Cameron F-77	06-28-23-30N/17-29-04.W	NT	AT-CNG	300F116010117150	4
License No.	Operator	Contractor	Well Type	Re-Entry	Time	Time
1221	PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF POC	VERT	<input type="checkbox"/>		
Operator's AFE		Contractor's Job No.	Spud Date	Time		
06ND10009		854	2010/02/06	01:00		
Signature of Operator Representative		Signature of Contractor's Rig manager	Rig Release Date	Time		
HALE YARDLEY		ERICK BIGRAS				

DAILY CHECKS		OP	RM
1	Daily Walk Around Inspection	HY	EB
2	Detailed Inspection - Weekly (Status Check List)	HY	EB
3	H2S Levels Tested & Recorded	HY	EB
4	Well License & Stack Diagram Posted	HY	EB
5	Flare Line Staked	HY	EB
6	BOP Drills Performed	HY	EB
7	Visually Inspected BOP's - Flare Lines & Bypass Lines	HY	EB
1) Rig Site Health & Safety Meeting (w/crew/month)		EB	
2) CAUDC Rig Safety Inspection Checklist (weekly/monthly)		EB	
3) Manual Inspection before Swabbing or Lowering		EB	
4) Crown Saver Checked		EB	
5) Motor Kolls Checked		EB	

FUEL @ 08:00 HOURS	
Rig	Boiler
	Dry Fuel
WEATHER	
Current Conditions	CLEAR
Wind Direction	NE
Wind Strength	UP TO 19 KMH
Road Condition	FAIR

DRILL PIPE							
Category	Thread Type	Grade	OD (mm)	ID (mm)	Linear Mass (kg/m)	No. of Joints	Total Length (m)
DP	4-FH	SS95	109	65	23.8360	185	134,000.00
DC	4.5" XH	DC	158	58	134,000.00	18	
HW	4" FH	HWDP	102	65	41,640.00	5	

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)
SURFACE	LKSID	J-55	219	206	35.72	28	376	4	376
PRODUCTION	PARAGON	J-55	140	127	20.83	118	1469	4	1468

MUD PUMPS				
No.	Make	Stroke Length (mm)	Description	Hours
1	3PMPM	229	MUD PUMP	24.00
2	3PMPM	229	DIVERTER	24.00
			LOADER	24.00

SHALE SHAKERS											
No.	Top Screen	Middle Screen	Middle Screen	Middle Screen	Bottom Screen	Details of Operations in Sequence & Remarks					
No.	Size	Changed	New Size	Changed	New Size	Changed	New Size	Changed	New Size	Changed	New Size
1	110	<input type="checkbox"/>	84	<input type="checkbox"/>	84	<input type="checkbox"/>	84	<input type="checkbox"/>	84	<input type="checkbox"/>	84

TOUR 1 DRILLING ASSEMBLY			
No.	Component	OD (mm)	Length (m)
1	BIT	311	0.30
1	BIT SUB	203	0.71
2	DC (8.00 IN)	203	18.02
1	BELL SUB	158	0.76
1	DC (6.25 IN)	158	8.78
1	TELEDRIFT	158	2.62
5	DC (6.25 IN)	158	45.80
1	PONY DC	158	4.60
1	JARS-HYD	158	5.26
8	DC (6.25 IN)	158	72.93
1	X/O	158	0.27
6	HWDP(4.0 IN)	135	55.44

BITS	
Bit Number	1RR
Size (mm)	311
MDC Code	
Manufacturer	VAREL
Type	HEO4.MRSV
Serial No.	235625
Jets (mm)	14.3 14.3 14.3 14.3
Depth Out (m)	0
Depth In (m)	0
Total Drilled (m)	324
Hrs Run Today	6.50
Cumulative Hrs Run	25.00
Entry Date	2010/02/07

MUD RECORD	
Mud Type	Water
Time	02:00 04:00
Density (kg/m ³)	1050 1040
Funnel Viscosity (cP)	40 41
Fluid Loss (cm)	
pH	8 8
Location	SHAKER SHAKER
Depth (m)	255 275
PVI (m)	55 51

MUD MATERIALS ADDED		
Product	Amount	Type
SAWDOUST	15	SACK
KELZAN	1	SACK
HYPERDRILLAF247RD	1	SACK
DETERGENT	1	PAIL
TKPP	1	PAIL

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
236	324	DRILL	150	4

REDUCED PUMP SPEED			
No.	Pressure (kpa)	Strokes/min	Depth (m)
1	80	6050	8.00
2	80	6050	8.00

BOILER			
No.	Hours Run	pH	Stack Temp (°C)
98	8.00	10.5	300.00

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	00:45	0:45	7.52	DRILL 311 MM HOLE FROM 236 M TO 248M
00:45	01:00	0:15	2.57	RIG SERVICE/FUNCTION DIVERTER 20 SEC CLOSED
01:00	01:15	0:15	1.0	DEVIATION SURVEY
01:15	03:00	1:45	2.57	DRILL 311MM HOLE FROM 248 M TO 274M
03:00	03:15	0:15	1.0	DEVIATION SURVEY
03:15	05:45	2:30	2.52	DRILL 311MM HOLE FROM 274M TO 303 M
05:45	06:00	0:15	1.0	DEVIATION SURVEY
06:00	06:15	0:15	2.52	HAND OVER SAFETY MEETING
06:15	08:00	1:45	2.52	DRILL 311 MM HOLE FROM 303 M TO 324M

TOUR 2 DRILLING ASSEMBLY			
No.	Component	OD (mm)	Length (m)
1	BIT	311	0.30
1	BIT SUB	203	0.71
2	DC (8.00 IN)	203	18.02
1	BELL SUB	158	0.76
1	DC (6.25 IN)	158	8.78
1	TELEDRIFT	158	2.62
5	DC (6.25 IN)	158	45.80
1	PONY DC	158	4.60
1	JARS-HYD	158	5.26
8	DC (6.25 IN)	158	72.93
1	X/O	158	0.27
6	HWDP(4.0 IN)	135	55.44

BITS	
Bit Number	1RR
Size (mm)	311
MDC Code	
Manufacturer	VAREL
Type	HEO4.MRSV
Serial No.	235625
Jets (mm)	14.3 14.3 14.3 14.3
Depth Out (m)	0
Depth In (m)	0
Total Drilled (m)	378
Hrs Run Today	3.75
Cumulative Hrs Run	28.75
Entry Date	2010/02/07

MUD RECORD	
Mud Type	Water
Time	08:00 10:00 13:00
Density (kg/m ³)	1060 1070 1080
Funnel Viscosity (cP)	40 43 57
Fluid Loss (cm)	
pH	8 8 8
Location	SHAKER SHAKER SHAKER
Depth (m)	320 350 378
PVI (m)	51 51 52

MUD MATERIALS ADDED		
Product	Amount	Type
GEL	25	SACK
MILLZAN	2	SACK
HYPERDRILLAF247RD	1	SACK
SAWDOUST	10	SACK

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
324	378	DRILL	150	5

REDUCED PUMP SPEED			
No.	Pressure (kpa)	Strokes/min	Depth (m)
1	80	6050	8.00
2	80	6050	3.75

BOILER			
No.	Hours Run	pH	Stack Temp (°C)
98	8.00	10.5	300.00

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
08:00	08:15	0:15	2.57	RIG SERVICE(FUNC. DIVERTER) 19 SEC. TO CLOSE
08:15	08:30	0:15	2.52	DRILL 311mm HOLE F/ 324m TO 332m
08:30	08:45	0:15	1.0	SURVEY @ 324m @ 0.5 DEG
08:45	11:00	2:15	2.52	DRILL 311mm HOLE F/ 332m TO 360m
11:00	11:15	0:15	1.0	SURVEY @ 330m 1.0 DEG
11:15	12:30	1:15	2.52	DRILL 311mm HOLE F/ 360m TO 378m
12:30	12:45	0:15	2.55	CIRC. HOLE CLEAN
12:45	13:00	0:15	1.0	SURVEY @ 348m 1.0 DEG
13:00	16:00	3:00	6	CLEAN OUT TRIP TO BIT(BLOW KELLY BEFORE TRIP)

TOUR 3 DRILLING ASSEMBLY			
No.	Component	OD (mm)	Length (m)
1	BIT	311	0.30
1	BIT SUB	203	0.71
2	DC (8.00 IN)	203	18.02
1	BELL SUB	158	0.76
1	DC (6.25 IN)	158	8.78
1	TELEDRIFT	158	2.62
5	DC (6.25 IN)	158	45.80
1	PONY DC	158	4.60
1	JARS-HYD	158	5.26
8	DC (6.25 IN)	158	72.93
1	X/O	158	0.27
6	HWDP(4.0 IN)	135	55.44

BITS	
Bit Number	1RR
Size (mm)	311
MDC Code	
Manufacturer	VAREL
Type	HEO4.MRSV
Serial No.	235625
Jets (mm)	14.3 14.3 14.3 14.3
Depth Out (m)	379
Depth In (m)	0
Total Drilled (m)	379
Hrs Run Today	0.25
Cumulative Hrs Run	29.00
Entry Date	2010/02/07

MUD RECORD	
Mud Type	Water
Time	08:00 10:00 13:00
Density (kg/m ³)	1060 1070 1080
Funnel Viscosity (cP)	40 43 57
Fluid Loss (cm)	
pH	8 8 8
Location	SHAKER SHAKER SHAKER
Depth (m)	320 350 378
PVI (m)	51 51 52

MUD MATERIALS ADDED		
Product	Amount	Type
GEL	25	SACK
MILLZAN	2	SACK
HYPERDRILLAF247RD	1	SACK
SAWDOUST	10	SACK

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
378	379	DRILL	160	4

REDUCED PUMP SPEED			
No.	Pressure (kpa)	Strokes/min	Depth (m)
1	80	6050	2.50
2	80	6050	0.00

BOILER			
No.	Hours Run	pH	Stack Temp (°C)
98	8.00	10.5	280.00

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
16:00	16:45	0:45	6	TRIP IN/ PIPE STRAP-RIG 208.15-STRAP 208.62-DIFF 0.47
16:45	17:00	0:15	2.52	WASH THROUGH BRIDGE @ 190m
17:00	17:45	0:45	6	RUN INTO 374M CIRC BOTTOMS UP
17:45	18:00	0:15	2.52	HANDOVER MEETING W/ CREWS
18:00	18:30	0:30	5.05	CONDITION MUD & CIRCULATE
18:30	18:45	0:15	2.52	DRILL FROM 378M TO 379.0
18:45	20:00	1:15	5.05	CONDITION MUD & CIRCULATE
20:00	23:00	3:00	68	BLOW KELLY & TRIP OUT OF HOLE TO RUN CASING LAY DOWN 8" DC TRIP VOL GAL. 4.49 ACT / 5.02 DIFF. 53M3
23:00	23:15	0:15	2.57	RIG SERVICE
23:15	23:30	0:15	2.10	PRE-JOB SAFETY ON RUNNING CASING.
23:30	24:00	0:30	12A	RIG UP TO RUN CASING SERIAL #32607/SL-X-65 TONNE & 5/6DATE CHECK 7/7/2005.

**FRONT PAGE SUMMARY**

Client	Thrust Serial Number	Vendor Software Version	Year	Month	Day
245 Para et al Cameron F-77	052245_20100209_1B	Pason	2010	02	09
Rig No.	Well Name	Surface Location	Prov	Loc Type	Unique Well Id
245	Para et al Cameron F-77	20 06 28.309/117.28-04.20W	NT	AT-ONG	300F116010117150
License No.	Operator	Contractor	Well Type	Re-Entry	
1221	PARAMOUNT RESOURCES LTD	PRECISION DRILLING, DIV OF PDC	VERT	<input type="checkbox"/>	
	Operator's A/E	Contractor's Job No	Spud Date	Time	
	09/NO10009	354	2010/02/06	01:00	
	Signature of Operator Representative	Signature of Contractor's Rig manager	Rig Release Date	Time	
	HALE YARDLEY	ERICK BIGRAS			

DAILY CHECKS

1	Daily Walk Around Inspection	HY	FR
2	Detailed Inspection - Weekly Lining Check List	HY	FR
3	H2S Signs Posted if Monitored	HY	FR
4	Well Licence & Stick Diagram Posted	HY	FR
5	Flare Lines Staked	HY	FR
6	BOP Drills Performed	HY	FR
7	Visually Inspected BOPs - Flare Lines & Degasser Lines	HY	FR
8	Bit Size Health & Safety Meeting (once/monthly)	FR	
9	LADUC Rig Safety Inspection Checklist (once/monthly)	FR	
10	Max Injection before Raising or Lowering	FR	
11	Crown Saver Checked	FR	
12	Water Kill Checked	FR	

FUEL @ 06:00 HOURS

Rig	Boiler	Dry Fuel
Weather	Time	06:00
Current Conditions	Temp	-10
Wind Direction	Wind Speed	UP TO 19 KMH
Wind Strength	Wind Direction	NE
Road Condition		FAIR

DRILL PIPE

Category	Thread Type	Grade	OD (mm)	ID (mm)	Linear Mass (kg/m)	No. of Joints	Tool Joint OD (mm)
DP	4"FH	SS95	102	65	23.8300	185	
DC	4.5"XH	DC	158	58	134.0000	18	
LW	4"FH	HWDP	102	65	41.6400	6	

MUD PUMPS

No.	Make	Stroke Length (mm)	Description	Hours
1	BPMMP	229	MUD PUMP	24.00
2	BPMMP	229	DIVERTER	24.00
			LOADER	24.00

GENERAL EQUIPMENT & SERVICES

No.	Top Screen	Middle Screen	Middle Screen	Bottom Screen
1	200	200	200	200
2	200	200	200	200
3	200	200	200	200
4	200	200	200	200
5	200	200	200	200
6	200	200	200	200
7	200	200	200	200
8	200	200	200	200
9	200	200	200	200
10	200	200	200	200

CASING

Category	Thread Type	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	KSIDE	J-55	219	205	35.72	26	378	4	378
PRODUCTION	PARAGON	J-55	140	127	20.83	119	1469	4	1468

TOUR 1

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	200	0	0.20
1	BIT SUB	158	1	0.71
1	TELEDRIFT	158	1	2.62
5	DC (6.25 IN)	158	1	45.01
1	SHORT DC 6.25"	158	1	4.60
1	JARS-MECH	158	1	5.26
9	DC (6.25 IN)	158	1	82.50
1	X/O	158	1	0.27
6	HWDP(4.0 IN)	135	1	55.44

Bit Number	Size (mm)	WDC Code	Manufacturer	Type	Serial No
2	200	M 2 2 2	REED	DSX416M-A3PDC	114176
					Jets (mm)
					12.0 12.0 12.0 12.0
					Depth Out (m)
					379
					Total Drilled (m)
					0
					Hrs Run Today
					0.00
					Cumulative Hrs Run
					2010/02/09

Mud Type	Water	Oil	Other
Density (kg/m ³)	10.00	12.00	15.00
Funnel Viscosity (cP)	1010	1020	1040
Fluid Loss (cm ³)	28	29	30
pH	12	10	10
Location	SHAKER	SHAKER	SHAKER
Depth (m)	380	408	470
PVT (m ³)	20	46	45

Product	Amount	Type
CITRIC ACID	7	SACK
CALCIUM NITRATE	10	SACK
SAWDOUST	10	SACK

From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
379	475	DRILL	100	2

No.	Pressure (kpa)	Strokes/min	Depth (m)
1	2780	69	455
2	2088	69	513

No.	Hours Run	pH	Stack Temp (°C)
98	8.00	10.5	280.00

Time	Depth (m)	Deviation	Direction	Type
02:15	02:30	0.25	7	RIG SERVICE/FUNC. HCR 2SEC. TO OPEN
02:30	03:30	1.00	15	ACCUMULATOR CHECK PRESS AT START 21.000 PRESS REMAINING AFTER 3 FUNCTION 12.500 TIME TO RECHARGE 1 MIN 4 SEC/PRECHARGE 6.000 KPA/N 2 BOTTLE#12.100 PSI#2 2.100 PSI #3 1.500 PSI TEST BLID RAM 1.500 KPA LOW 14.000 KPA HIGH 10 MIN EACH.
03:30	03:45	0.25	21	SAFETY MEETING & B.O.P DRILL WITH CREW PRIOR TO RLH CREW POSITION IN 1 MIN 20 SEC.
03:45	05:45	2.00	6A	MAKE UP B.H.A & TRIP IN HOLE WITH BIT #2
05:45	06:00	0.25	21	HAND OVER SAFETY MEETING

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:15	2.25	15A	FINISH PRESSURE TEST BOPS TEST HYDRILL TO 1.500 KPA LOW 10.500 HIGH 10 MIN EACH. TEST HCR. BACK UP KILL LINE STA BRING VAQ/VE INSIDE B.O.P TO 1500 KPA LOW 14.000 KPA HIGH 10 MIN EACH. TEST UPPER KELLY COCK TO 1.500 KPA LOW 15.000 KPA HIGH 10 MIN EACH.
02:15	02:30	0.25	7	RIG SERVICE - FUNCTION MOTOR KILL OK
02:30	03:30	1.00	15	ACCUMULATOR CHECK PRESS AT START 21.000 PRESS REMAINING AFTER 3 FUNCTION 12.500 TIME TO RECHARGE 1 MIN 4 SEC/PRECHARGE 6.000 KPA/N 2 BOTTLE#12.100 PSI#2 2.100 PSI #3 1.500 PSI TEST BLID RAM 1.500 KPA LOW 14.000 KPA HIGH 10 MIN EACH.
03:30	03:45	0.25	21	SAFETY MEETING & B.O.P DRILL WITH CREW PRIOR TO RLH CREW POSITION IN 1 MIN 20 SEC.
03:45	05:45	2.00	6A	MAKE UP B.H.A & TRIP IN HOLE WITH BIT #2
05:45	06:00	0.25	21	HAND OVER SAFETY MEETING

TOUR 2

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	200	0	0.30
1	BIT SUB	158	1	0.71
1	TELEDRIFT	158	1	2.62
5	DC (6.25 IN)	158	1	45.01
1	SHORT DC 6.25"	158	1	4.60
1	JARS-HYD	158	1	5.26
9	DC (6.25 IN)	158	1	82.50
1	X/O	158	1	0.27
6	HWDP(4.0 IN)	135	1	55.44

Bit Number	Size (mm)	WDC Code	Manufacturer	Type	Serial No
2	200	M 2 2 2	REED	DSX416M-A3PDC	114176
					Jets (mm)
					12.0 12.0 12.0 12.0
					Depth Out (m)
					379
					Total Drilled (m)
					96
					Hrs Run Today
					5.75
					Cumulative Hrs Run
					2010/02/09

Mud Type	Water	Oil	Other
Density (kg/m ³)	10.00	12.00	15.00
Funnel Viscosity (cP)	1010	1020	1040
Fluid Loss (cm ³)	28	29	30
pH	12	10	10
Location	SHAKER	SHAKER	SHAKER
Depth (m)	380	408	470
PVT (m ³)	20	46	45

Product	Amount	Type
CITRIC ACID	7	SACK
CALCIUM NITRATE	10	SACK
SAWDOUST	10	SACK

From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
379	475	DRILL	100	2

No.	Pressure (kpa)	Strokes/min	Depth (m)
1	2780	69	455
2	2088	69	513

No.	Hours Run	pH	Stack Temp (°C)
98	8.00	10.5	280.00

Time	Depth (m)	Deviation	Direction	Type
08:00	08:15	0.25	7	RIG SERVICE/FUNC. HCR 2SEC. TO OPEN
08:15	09:45	1.50	2C	DRILL OUT FLOAT & SHOE
09:45	11:00	1.25	2	DRILL 200mm HOLE F/ 378m TO 398m
11:00	11:15	0.25	10	SURVEY @ 397m 0.5DEG
11:15	14:30	3.25	2	DRILL 200mm HOLE F/ 398m TO 446m
14:30	14:45	0.25	21C	SAFETY MEETING & SCBA TRAINING W/ RAMS SAFETY SERVICES
14:45	16:00	1.25	2	DRILL 200mm HOLE F/ 446m TO 475m

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
08:00	08:15	0.25	7	RIG SERVICE/FUNC. HCR 2SEC. TO OPEN
08:15	09:45	1.50	2C	DRILL OUT FLOAT & SHOE
09:45	11:00	1.25	2	DRILL 200mm HOLE F/ 378m TO 398m
11:00	11:15	0.25	10	SURVEY @ 397m 0.5DEG
11:15	14:30	3.25	2	DRILL 200mm HOLE F/ 398m TO 446m
14:30	14:45	0.25	21C	SAFETY MEETING & SCBA TRAINING W/ RAMS SAFETY SERVICES
14:45	16:00	1.25	2	DRILL 200mm HOLE F/ 446m TO 475m

TOUR 3

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	200	0	0.20
1	BIT SUB	158	1	0.71
1	TELEDRIFT	158	1	2.62
5	DC (6.25 IN)	158	1	45.01
1	SHORT DC 6.25"	158	1	4.60
1	JARS-HYD	158	1	5.26
9	DC (6.25 IN)	158	1	82.50
1	X/O	158	1	0.27
6	HWDP(4.0 IN)	135	1	55.44

Bit Number	Size (mm)	WDC Code	Manufacturer	Type	Serial No
2	200	M 2 2 2	REED	DSX416M-A3PDC	114176
					Jets (mm)
					12.0 12.0 12.0 12.0
					Depth Out (m)
					379
					Total Drilled (m)
					218
					Hrs Run Today
					7.90
					Cumulative Hrs Run
					2010/02/09

Mud Type	Water	Oil	Other
Density (kg/m ³)	10.00	12.00	15.00
Funnel Viscosity (cP)	1010	1020	1040
Fluid Loss (cm ³)	28	29	30
pH	10		
Location	SHAKER		
Depth (m)	519		
PVT (m ³)	47		

Product	Amount	Type
CITRIC ACID	7	SACK
CALCIUM NITRATE	10	SACK
SAWDOUST	10	SACK

From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
475	597	DRILL	90	3

No.	Pressure (kpa)	Strokes/min	Depth (m)
1	2088	69	513
2	2088	69	513

No.	Hours Run	pH	Stack Temp (°C)
98	8.00	10.5	300.00

Time	Depth (m)	Deviation	Direction	Type
16:00	16:15	0.25	10	SURVEY @ 475M 0.5 DEG



FRONT PAGE SUMMARY		Tour Sheet Serial Number	Vendor Software Version	Year	Month	Day
Rig No. Well Name		245 Para et al Cameron F-77	20100200_1B	Pason	2010	02 09
Surface Location		Prov	Loc Type	Usage Well Id	Kelly Bushing	
245 Para et al Cameron F-77		NT	LOC	300F116010117150	4	
License No. Operator		Contractor	Well type	Re-Entry		
1221 PARAMOUNT RESOURCES LTD		PRECISION DRILLING, DIV OF PDC	VERT	<input type="checkbox"/>		
Operator's AFE		Contractor's Job No	Spud Date	Time		
g&N 10009		354	2010/02/06	01:00		
Signature of Operator Representative		Signature of Contractor's Rig manager	Rig Release Date	Time		
HALE YARDLEY		ERICK BIGRAS				

DAILY CHECKS		OP RM
(1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) H2S Signs Periodic Monitoring (4) Well Integrity & Stock Diagram Posted (5) Flare Lines Staked (6) BOP Drills Performed (7) Visually Inspected BOPs - Flare Lines & Degasser Lines		
(1) Rig Site Health & Safety Meeting (once/crew/month) (2) CAADC Rig Safety Inspection Checklist (one/rig/month) (3) Mast Inspections Before Raising or Lowering (4) Crown Saver Checked (5) Motor Kills Checked		

FUEL @ 08:00 HOURS	
Rig	
Boiler	
Op Fuel	
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)

MUD PUMPS	
No.	Make Stroke Length (mm)

GENERAL EQUIPMENT & SERVICES	
Description	Hours

TOUR 1		SIGNATURE OF DRILLER	
ROMEO DASTOUS			
DRILLING ASSEMBLY		MUD RECORD	
No.	Component OD (mm) ID (mm) Length (m)	Mud Type	Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>
1	BIT 200 0 0.30	Time	
1	BIT SUB 158 1 0.71	Density (kg/m ³)	
1	TELEDRIFT 158 1 2.62	Funnel Viscosity (cP)	
5	DC (6.25 IN) 158 1 45.01	Rigid Loss (cm ³)	
1	SHORT DC 6.25" 158 1 4.60	pH	
1	JARS-HYD 158 1 5.26	Location	
9	DC (6.25 IN) 158 1 82.50	Depth (m)	
1	X/O 158 1 0.27	PVT (m)	
6	HWDP(4.0 IN) 135 1 55.44	Depth In (m)	
		Depth In (m)	
		Total Drilled (m)	
		Hrs Run Today	
		Cumulative Hrs Run	
		Entry Date	
DULL GRADE		SAFETY	
T ₁	Gage (mm)	Safety Topic	
T ₂	OJC	MEHL (kdaN)	MACP (kpa)
MDC	Reason Pulled		
LOC	Total Run (m/hr)		
BRG			

TOUR 1		START TIME		END TIME	
ROMEO DASTOUS		00:00		08:00	
METRES DRILLED		HOLE CONDITION		TIME LOG	
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)	Details of Operations in Sequence & Remarks
					06:00 06:15 0.25 5 CIRCULATE DOWN STRING TO TAG CEMENT
					06:15 06:30 0.25 21A BOP DRILL W/ CREW/ WELL SECURE IN 88SEC. HYDRILL 13SEC. TO CLOSE
					06:30 07:15 0.75 5 CIRCULATE DOWN STRING TO TAG CEMENT TOP
					07:15 08:00 0.75 2C DRILL OUT FLOAT/TAG CEMENT @ 363M
REDUCED PUMP SPEED		BOILER		DEVIATION SURVEYS	
No.	Pressure (kpa) Strokes/min Depth (m)	No.	Hours Run pH Stack Temp (°C)	Time	Depth (m) Deviation Direction Type
CIRCULATION		SAFETY		REMARKS	
Pump Type	Line Size (mm) SPM Pressure (kpa) Hours Run	Safety Topic			

TOUR 2		SIGNATURE OF DRILLER	
JOE LEADLEY			
DRILLING ASSEMBLY		MUD RECORD	
No.	Component OD (mm) ID (mm) Length (m)	Mud Type	Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>
1	BIT 200 0 0.20	Time	
1	BIT SUB 158 1 0.71	Density (kg/m ³)	
1	TELEDRIFT 158 1 2.62	Funnel Viscosity (cP)	
6	DC (6.25 IN) 158 1 45.01	Rigid Loss (cm ³)	
1	SHORT DC 6.25" 158 1 4.60	pH	
1	JARS-HYD 158 1 5.26	Location	
9	DC (6.25 IN) 158 1 82.50	Depth (m)	
1	X/O 158 1 0.27	PVT (m)	
6	HWDP(4.0 IN) 135 1 55.44	Depth In (m)	
		Depth In (m)	
		Total Drilled (m)	
		Hrs Run Today	
		Cumulative Hrs Run	
		Entry Date	
DULL GRADE		SAFETY	
T ₁	Gage (mm)	Safety Topic	
T ₂	OJC	MEHL (kdaN)	MACP (kpa)
MDC	Reason Pulled		
LOC	Total Run (m/hr)		
BRG			

TOUR 3		SIGNATURE OF DRILLER	
ROMEO DASTOUS			
DRILLING ASSEMBLY		MUD RECORD	
No.	Component OD (mm) ID (mm) Length (m)	Mud Type	Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>
1	BIT 200 0 0.20	Time	
1	BIT SUB 158 1 0.71	Density (kg/m ³)	
1	TELEDRIFT 158 1 2.62	Funnel Viscosity (cP)	
6	DC (6.25 IN) 158 1 45.01	Rigid Loss (cm ³)	
1	SHORT DC 6.25" 158 1 4.60	pH	
1	JARS-HYD 158 1 5.26	Location	
9	DC (6.25 IN) 158 1 82.50	Depth (m)	
1	X/O 158 1 0.27	PVT (m)	
6	HWDP(4.0 IN) 135 1 55.44	Depth In (m)	
		Depth In (m)	
		Total Drilled (m)	
		Hrs Run Today	
		Cumulative Hrs Run	
		Entry Date	
DULL GRADE		SAFETY	
T ₁	Gage (mm)	Safety Topic	
T ₂	OJC	MEHL (kdaN)	MACP (kpa)
MDC	Reason Pulled		
LOC	Total Run (m/hr)		
BRG			

TOUR 2		START TIME		END TIME	
JOE LEADLEY		08:00		16:00	
METRES DRILLED		HOLE CONDITION		TIME LOG	
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)	Details of Operations in Sequence & Remarks
REDUCED PUMP SPEED		BOILER		DEVIATION SURVEYS	
No.	Pressure (kpa) Strokes/min Depth (m)	No.	Hours Run pH Stack Temp (°C)	Time	Depth (m) Deviation Direction Type
CIRCULATION		SAFETY		REMARKS	
Pump Type	Line Size (mm) SPM Pressure (kpa) Hours Run	Safety Topic			

TOUR 3		START TIME		END TIME	
ROMEO DASTOUS		16:00		24:00	
METRES DRILLED		HOLE CONDITION		TIME LOG	
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)	Details of Operations in Sequence & Remarks
REDUCED PUMP SPEED		BOILER		DEVIATION SURVEYS	
No.	Pressure (kpa) Strokes/min Depth (m)	No.	Hours Run pH Stack Temp (°C)	Time	Depth (m) Deviation Direction Type
CIRCULATION		SAFETY		REMARKS	
Pump Type	Line Size (mm) SPM Pressure (kpa) Hours Run	Safety Topic			

TOUR 3		SIGNATURE OF DRILLER	
ROMEO DASTOUS			
DRILLING ASSEMBLY		MUD RECORD	
No.	Component OD (mm) ID (mm) Length (m)	Mud Type	Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>
1	BIT 200 0 0.20	Time	
1	BIT SUB 158 1 0.71	Density (kg/m ³)	
1	TELEDRIFT 158 1 2.62	Funnel Viscosity (cP)	
6	DC (6.25 IN) 158 1 45.01	Rigid Loss (cm ³)	
1	SHORT DC 6.25" 158 1 4.60	pH	
1	JARS-HYD 158 1 5.26	Location	
9	DC (6.25 IN) 158 1 82.50	Depth (m)	
1	X/O 158 1 0.27	PVT (m)	
6	HWDP(4.0 IN) 135 1 55.44	Depth In (m)	
		Depth In (m)	
		Total Drilled (m)	
		Hrs Run Today	
		Cumulative Hrs Run	
		Entry Date	
DULL GRADE		SAFETY	
T ₁	Gage (mm)	Safety Topic	
T ₂	OJC	MEHL (kdaN)	MACP (kpa)
MDC	Reason Pulled		
LOC	Total Run (m/hr)		
BRG			

TOUR 3		START TIME		END TIME	
ROMEO DASTOUS		16:00		24:00	
METRES DRILLED		HOLE CONDITION		TIME LOG	
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)	Details of Operations in Sequence & Remarks
REDUCED PUMP SPEED		BOILER		DEVIATION SURVEYS	
No.	Pressure (kpa) Strokes/min Depth (m)	No.	Hours Run pH Stack Temp (°C)	Time	Depth (m) Deviation Direction Type
CIRCULATION		SAFETY		REMARKS	
Pump Type	Line Size (mm) SPM Pressure (kpa) Hours Run	Safety Topic			

TOUR 3		START TIME		END TIME	
ROMEO DASTOUS		16:00		24:00	
METRES DRILLED		HOLE CONDITION		TIME LOG	
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)	Details of Operations in Sequence & Remarks
REDUCED PUMP SPEED		BOILER		DEVIATION SURVEYS	
No.	Pressure (kpa) Strokes/min Depth (m)	No.	Hours Run pH Stack Temp (°C)	Time	Depth (m) Deviation Direction Type
CIRCULATION		SAFETY		REMARKS	
Pump Type	Line Size (mm) SPM Pressure (kpa) Hours Run	Safety Topic			



FRONT PAGE SUMMARY		Sheet Serial Number	Vendor Software Version	Year	Month	Day
1221		0752245_20100210_1A	Pason	2010	02	10
Rig No.	Well Name	Surface Location	Prov	Loc Type	Unique Well ID	Kelly Bushing
245	Para et al Cameron F-77	60 06 28.30N/117 38 04.20W	NT	AT-Cole	300F116010117150	4
License No.	Operator	Contractor	Well Type	Air-Entry	VERT	Time
1221	PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC	PRECISION DRILLING, DIV OF PDC	Contractor's Job No	Contractor's Job No	Contractor's Job No
	Operator's APT	Operator's APT	Operator's APT	Operator's APT	Operator's APT	Operator's APT
	Signature of Operator Representative	Signature of Contractor's Rig manager				
	HALE YARDLEY	ERICK BIGRAS				

DAILY CHECKS		OP RM	
1) Daily Walk Around Inspection	HY	EB	
2) Detailed Inspection - Weekly (Using Check List)	HY	EB	
3) RPS Signs Posted if Required	HY	EB	
4) Well Lubrication & Stock Diagram Posted	HY	EB	
5) Flare Line Checked	HY	EB	
6) BOP Drills Performed	HY	EB	
7) Visually Inspected BOP's - Flare Lines & Degasser Lines	HY	EB	
1) Rig Site Health & Safety Meeting (before/after/monthly)	CA		
2) CAUDC Rig Safety Inspection Check-list (before/monthly)	CA		
3) Must Inspect before Raising or Lowering	CA		
4) Crown Saver Checked	CA		
5) Motor Kill Checked	CA		

FUEL @ 08:00 HOURS	
Rig	
Boiler	
Op Fuel	
WEATHER	
Time	06:00
Temp	-21
Current Conditions	CLEAR
Wind Direction	NE
Wind Strength	UP TO 19 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)
DP	4"FH	SS95	102	85	23.8300	185	
DC	4.5"XH	DC	158	58	134.0000	18	
HW	4"FH	HWDP	102	85	41.8400	0	
CASING							
Category	Make	Grade	OD (mm)	ID (mm)	Linear Mass (kg/m)	No. of Joints	Total Length (m)
SURFACE	LKSID	J-55	210	206	35.72	28	378
PRODUCTION	PARAGON	J-55	140	127	20.83	118	1469

MUD PUMPS		
No.	Make	Stroke Length (mm)
1	BPMMP	229
2	BPMMP	229

GENERAL EQUIPMENT & SERVICES					
Description	Hours				
MUD PUMP	24.00				
DIVERTER	24.00				
LOADER	24.00				
SHALE SHAKERS					
No.	Size	Top Screen	Middle Screen	Middle Screen	Bottom Screen
1	200	200	200	200	200

TOUR 1				
DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
0	Drill Pipe			0.00
0	Drill Pipe			0.00
0	Weight of DC (kdaN)			0.00
0	Weight of string (kdaN)			0.00
BITS				
Bit Number	2			
Size (mm)	200			
MDC Code	M 2 2 2			
Manufacturer	REED			
Type	DSX416M-ASPDC			
Serial No.	1141178			
Jets (mm)	12.0 12.0 12.0 12.0			
Depth Out (m)	12.0 12.0			
Depth In (m)				
Total Drilled (m)	379			
Hrs Run Today	7.00			
Cumulative Hrs Run	19.75			
Entry Date	2010/02/10			
DULL GRADE				
Gauge (mm)				
ODC				
MDC				
LOC				
BRG				

MUD RECORD				
Mud Type	Water	Oil	Other	
Time	01:00	04:00	06:00	
Density (kg/m ³)	1020	1020	1040	
Funnel Viscosity (cP)	30	30	31	
Fluid Loss (cm ³)				
pH				
Location	SHAKER	SHAKER	SHAKER	
Depth (m)	612	660	704	
PVT (m)	44	45	45	
SOLIDS CONTROL				
Equipment Name	Hours Run	Intake Density (kg/m ³)	Over Flow Density (kg/m ³)	Under Flow Density (kg/m ³)
CENTRIFUGE	8.00	1020	1680	1090
SAFETY				
Safety Topic	MEHL (kdaN)	MACP (kpa)		
DRIVE TO AIRPORT FOR DAY OFF.	30	4448		

MUD MATERIALS ADDED		
Product	Amount	Type
GEL	12	SACK
CAUSTIC	1	SACK
SAWDUST	25	SACK
KELZAN	1	SACK

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
579	724	DRILL	90	4
REDUCED PUMP SPEED				
No.	Pressure (kpa)	Strokes/min	Depth (m)	
1	2100	60	609	
CIRCULATION				
Pump Type	Line Size (mm)	SPM	Pressure (kpa)	Hours Run
1	150	0	2700	8.00
2	150	0	2700	0.00

HOLE CONDITION				
Hold Drag Up (kdaN)	4			
Hold Drag Down (kdaN)	2			
Torque at Bottom (Nm)	0			
Fill on Bottom (m)	0			
BOILER				
No.	Hours Run	pH	Stack Temp (°C)	
98	8.00	10.5	300.00	
DEVIATION SURVEYS				
Time	Depth (m)	Deviation	Direction	Type
02:30	635.00	0.5	0	TELEDRIFT
07:15	713.00	0.5	0	TELEDRIFT

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	01:30	1:30	2	DRILL FROM 597 M TO 618 M
01:30	01:45	0:15	7	RIG SERVICE FUNCTION HYDRIL 12 SEC TO CLOSE
01:45	02:45	1:00	2	DRILL FROM 618 M TO 638M
02:45	03:00	0:15	10	DEVIATION SURVEY
03:00	06:00	3:00	2	DRILL FROM 638 M TO 695 M
06:00	06:15	0:15	21	HAND OVER SAFETY MEETING
06:15	07:15	1:00	2	DRILL FROM 695m TO 714m
07:15	07:30	0:15	10	SURVEY @ 713m 0.5 DEG
07:30	08:00	0:30	2	DRILL 200mm HOLE F7 714m TO 724m
Remarks: FUNCTION CROWN SAVER, CHECK BRAKE PIN LINKAGE ROLLER, TONGS PINS, BACK UP LINE, BREAK OUT CABLE, CP AND DC SLIPS, BOOM LINE TUGGER SAFETY HOOK, CHECK STABBING VALVE VISUALLY CHECK B.O.P EQUIPMENT REMOVE DP PRESS GAUGE IN MANIFOLD SHACK, BLOW BOILER 4X150 LITER, CHECK DEAD MAN BOLTS AND NUTS OK.				

TOUR 2				
DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
0	Drill Pipe			0.00
0	Drill Pipe			0.00
0	Weight of DC (kdaN)			0.00
0	Weight of string (kdaN)			0.00
BITS				
Bit Number	2			
Size (mm)	200			
MDC Code	M 2 2 2			
Manufacturer	REED			
Type	DSX416M-ASPDC			
Serial No.	1141178			
Jets (mm)	12.0 12.0 12.0 12.0			
Depth Out (m)	12.0 12.0			
Depth In (m)				
Total Drilled (m)	379			
Hrs Run Today	8.38			
Cumulative Hrs Run	6.75			
Entry Date	2010/02/10			
DULL GRADE				
Gauge (mm)				
ODC				
MDC				
LOC				
BRG				

MUD RECORD				
Mud Type	Water	Oil	Other	
Time	08:00	10:00	12:00	
Density (kg/m ³)	1040	1040	1040	
Funnel Viscosity (cP)	31	32	31	
Fluid Loss (cm ³)				
pH				
Location	SHAKER	SHAKER	SHAKER	
Depth (m)	725	761	798	
PVT (m)	46	45	42	
SOLIDS CONTROL				
Equipment Name	Hours Run	Intake Density (kg/m ³)	Over Flow Density (kg/m ³)	Under Flow Density (kg/m ³)
CENT	8.00	1040	1020	1220
SAFETY				
Safety Topic	MEHL (kdaN)	MACP (kpa)		
STEAM	2093	4448		

MUD MATERIALS ADDED		
Product	Amount	Type
CALCIUM NITRATE	10	SACK
CAUSTIC	2	SACK
KELZAN	1	SACK
SAWDUST	5	SACK

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
724	831	DRILL	100	3
REDUCED PUMP SPEED				
No.	Pressure (kpa)	Strokes/min	Depth (m)	
1	2450	70	800	
CIRCULATION				
Pump Type	Line Size (mm)	SPM	Pressure (kpa)	Hours Run
1	150	0	4020	8.00
2	150	0	4020	0.00

HOLE CONDITION				
Hold Drag Up (kdaN)	2			
Hold Drag Down (kdaN)	3			
Torque at Bottom (Nm)	45			
Fill on Bottom (m)	0			
BOILER				
No.	Hours Run	pH	Stack Temp (°C)	
98	8.00	10.5	300.00	
DEVIATION SURVEYS				
Time	Depth (m)	Deviation	Direction	Type
12:00	788.00	0.5	0	TELEDRIFT

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
08:00	08:15	0:15	7	RIG SERVICE(FUNC. PIPE RAMS 2 SEC. TO CLOSE)
08:15	12:45	4:30	2	DRILL 200mm HOLE F7 724m TO 800m
12:45	13:15	0:30	25	INSTALL PASSION FLOW SENSOR
13:15	14:00	0:45	2	DRILL 200mm HOLE F7 800m TO 809M
14:00	14:15	0:15	21	HANDOVER SAFETY MEETING
14:15	15:45	1:30	2	DRILL FROM 809M TO 831M
15:45	16:00	0:15	10	DEVIATION SURVEY
Remarks: DWA FUNC. CROWN SAVER, FLARE TANK INGNITOR INSPECTED BRAKES, LINKAGES, ROLLERS & PINS, ACCUM. PRESS. VISUALLY INSPECT DEARRICK, FLARE & DEGASSER LINES, SLIPS & DIES, TONGS, DIES & HOLDBACK LINES FUNCTION HYDRIL 13SECONDS TO CLOSE.				

TOUR 3				
DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
0	Drill Pipe			0.00
0	Drill Pipe			0.00
0	Weight of DC (kdaN)			0.00
0	Weight of string (kdaN)			0.00
BITS				
Bit Number	2			
Size (mm)	200			
MDC Code	M 2 2 2			
Manufacturer	REED			
Type	DSX416M-ASPDC			
Serial No.	1141178			
Jets (mm)	12.0 12.0 12.0 12.0			
Depth Out (m)	12.0 12.0			
Depth In (m)				
Total Drilled (m)	844			
Hrs Run Today	6.50			
Cumulative Hrs Run	32.00			
Entry Date	2010/02/10			
DULL GRADE				
Gauge (mm)				
ODC				
MDC				
LOC				
BRG				

MUD RECORD				
Mud Type	Water	Oil	Other	
Time	16:00	21:00	23:00	
Density (kg/m ³)	1050	1040	1030	
Funnel Viscosity (cP)	32	31	30	
Fluid Loss (cm ³)				
pH				
Location	SHAKER	SHAKER	SHAKER	
Depth (m)	860	915	990	
PVT (m)	50	47	46	
SOLIDS CONTROL				
Equipment Name	Hours Run	Intake Density (kg/m ³)	Over Flow Density (kg/m ³)	Under Flow Density (kg/m ³)
CENTRIFUGE	8.00	1050	1015	1895
SAFETY				
Safety Topic	MEHL (kdaN)	MACP (kpa)		
OVERHEAD EQUIPMENT	44	2056		

MUD MATERIALS ADDED		
Product	Amount	Type
CAUSTIC	2	SACK
CALCIUM NITRATE	15	SACK
SAWDUST	22	SACK
ALKALAM A-1109D	1	SACK

METRES DRILLED				
From (m)	To (m)	D-R-C	RPM	WOB (kdaN)
831	844	DRILL	100	3
REDUCED PUMP SPEED				
No.	Pressure (kpa)	Strokes/min	Depth (m)	
1	2247	70	848	
CIRCULATION				
Pump Type	Line Size (mm)	SPM	Pressure (kpa)	Hours Run
1	150	0	3560	8.00
2	150	0	3560	0.00

HOLE CONDITION				
Hold Drag Up (kdaN)	2			
Hold Drag Down (kdaN)	3			
Torque at Bottom (Nm)	0			
Fill on Bottom (m)	0			
BOILER				
No.	Hours Run	pH	Stack Temp (°C)	
98	8.00	10.5	300.00	
DEVIATION SURVEYS				
Time	Depth (m)	Deviation	Direction	Type
18:00	858.00	0.5	0	TELEDRIFT
23:15	933.00	0.5	0	TELEDRIFT

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
16:00	16:15	0:15	21A	DRILLS/BOP, ETC. FUNCTION HYDRIL CLOSED IN 13SECONDS
16:15	18:00	1:45	2	DRILL FROM 831M TO 858M
18:00	18:15	0:15	10	DEVIATION SURVEY
18:15	22:30	4:15	2	DRILL 200mm HOLE F7 858m TO 934m
22:30	22:45	0:15	7	RIG SERVICE(FUNC. PIPE RAMS 3 SEC. TO CLOSE)
22:45	23:15	0:30	21C	SAFETY STAND DOWN MEETING W/ PD SAFETY PERSONEL
23:15	23:30			

FRONT PAGE SUMMARY

Hour Sheet Serial Number	2052245_20100210_1A	Vendor Software Version	Pason	Year	2010	Month	02	Day	10
Rig No.	Well Name	Surface Location	Prov	Loc Type	Unique Well Id	Kelly Bushing			
245	Para et al Cameron F-77	40 98 29.30N/117.39E	NT	ATC Code	300F116010117150	4			
License No.	Operator	Contractor	Well Type	Re-Entry					
1221	PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC	VERT	<input type="checkbox"/>					
Operator's A/E		Contractor's Job No	Signal Date	Time					
SAND 10009		354	2010/02/06	01:00					
Signature of Operator Representative		Signature of Contractor's Rig manager	Rig Release Date	Time					
HALE YARDLEY		ERICK BIGRAS							

DAILY CHECKS

1) Daily Walk Around Inspection	<input type="checkbox"/>
2) Detailed Inspection - Weekly (Using Check List)	<input type="checkbox"/>
3) H2S Signs Posted if Required	<input type="checkbox"/>
4) Well License & Stack Diagram Posted	<input type="checkbox"/>
5) Flare Lines Checked	<input type="checkbox"/>
6) BOP Drills Performed	<input type="checkbox"/>
7) Visually Inspected BOPs - Flare Lines & Depressur Lines	<input type="checkbox"/>

FUEL @ 08:00 HOURS

Rig	
Boiler	
Op Fuel	
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)

MUD PUMPS

No.	Make	Stroke Length (mm)

GENERAL EQUIPMENT & SERVICES

Description	Hours



TOUR 1

DRILLING ASSEMBLY

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	200	0	0.20
1	BIT SUB	158	1	0.71
1	TELEDRIFT	158	1	2.62
5	DC (6.25 IN)	158	1	45.01
1	POWY DC	158	1	4.60
1	JARS-HYD	158	1	5.26
9	DC (6.25 IN)	158	1	82.50
1	X/O	158	1	0.27
6	HWDP(4.0 IN)	135	1	55.44

27 Drill Pipe Stands (m) 516.12
 0 Drill Pipe Singles (m) 0.00
 Weight of DC (kdaN) 12 Kelly Down (m) 11.27
 Weight of string (kdaN) 30 Total (m) 724.00

SIGNATURE OF DRILLER ROMEO DASTOUS

MUD RECORD

Mud Type	Water	Oil	Other
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time			
Density (kg/m ³)			
Funnel Viscosity (s/l)			
Fluid Loss (cm ³)			
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)

DULL GRADE

Gage (mm)	ODC
T ₁	
T ₂	
MDC	Reason Pulled
LOC	
BRG	Total Run (m/hr)

SAFETY

Safety Topic	MEHL (kdaN)	MACP (kpa)

METRES DRILLED

From (m)	To (m)	D-R-C	RPM	WOB (kdaN)

REDUCED PUMP SPEED

No.	Pressure (kpa)	Strokes/min	Depth (m)

BOILER

No.	Hours Run	pH	Stack Temp (°C)

CIRCULATION

Pump Type	Liner Size (mm)	SPM	Pressure (kpa)	Hours Run

DEVIATION SURVEYS

Time	Depth (m)	Deviation	Direction	Type

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

START TIME 00:00 **END TIME** 08:00

TOUR 2

DRILLING ASSEMBLY

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	200	0	0.20
1	BIT SUB	158	1	0.71
1	TELEDRIFT	158	1	2.62
6	DC (6.25 IN)	158	1	49.61
1	JARS-HYD	158	1	5.26
9	DC (6.25 IN)	158	1	82.50
1	X/O	158	1	0.27
6	HWDP(4.0 IN)	135	1	55.44

33 Drill Pipe Stands (m) 630.72
 0 Drill Pipe Singles (m) 0.00
 Weight of DC (kdaN) 14 Kelly Down (m) 3.67
 Weight of string (kdaN) 30 Total (m) 631.00

SIGNATURE OF DRILLER JOE LEADLEY

MUD RECORD

Mud Type	Water	Oil	Other
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time	15:00		
Density (kg/m ³)	1050		
Funnel Viscosity (s/l)	32		
Fluid Loss (cm ³)			
pH	8		
Location			
Depth (m)	810		
PVT (m)	40		

SOLIDS CONTROL

Equipment Name	Hours Run	Intake Density (kg/m ³)	Over Flow Density (kg/m ³)	Under Flow Density (kg/m ³)

DULL GRADE

Gage (mm)	ODC
T ₁	
T ₂	
MDC	Reason Pulled
LOC	
BRG	Total Run (m/hr)

SAFETY

Safety Topic	MEHL (kdaN)	MACP (kpa)

METRES DRILLED

From (m)	To (m)	D-R-C	RPM	WOB (kdaN)

REDUCED PUMP SPEED

No.	Pressure (kpa)	Strokes/min	Depth (m)

BOILER

No.	Hours Run	pH	Stack Temp (°C)

CIRCULATION

Pump Type	Liner Size (mm)	SPM	Pressure (kpa)	Hours Run

DEVIATION SURVEYS

Time	Depth (m)	Deviation	Direction	Type

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

START TIME 08:00 **END TIME** 16:00

TOUR 3

DRILLING ASSEMBLY

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	200	0	0.20
1	BIT SUB	158	1	0.71
1	TELEDRIFT	158	1	2.62
6	DC (6.25 IN)	158	1	49.61
1	JARS-HYD	158	1	5.26
9	DC (6.25 IN)	158	1	82.50
1	X/O	158	1	0.27
6	HWDP(4.0 IN)	135	1	55.44

38 Drill Pipe Stands (m) 726.38
 1 Drill Pipe Singles (m) 9.81
 Weight of DC (kdaN) 14 Kelly Down (m) 11.40
 Weight of string (kdaN) 32 Total (m) 944.00

SIGNATURE OF DRILLER PETER WANCZYK

MUD RECORD

Mud Type	Water	Oil	Other
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time			
Density (kg/m ³)			
Funnel Viscosity (s/l)			
Fluid Loss (cm ³)			
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)

DULL GRADE

Gage (mm)	ODC
T ₁	
T ₂	
MDC	Reason Pulled
LOC	
BRG	Total Run (m/hr)

SAFETY

Safety Topic	MEHL (kdaN)	MACP (kpa)

METRES DRILLED

From (m)	To (m)	D-R-C	RPM	WOB (kdaN)

REDUCED PUMP SPEED

No.	Pressure (kpa)	Strokes/min	Depth (m)

BOILER

No.	Hours Run	pH	Stack Temp (°C)

CIRCULATION

Pump Type	Liner Size (mm)	SPM	Pressure (kpa)	Hours Run

DEVIATION SURVEYS

Time	Depth (m)	Deviation	Direction	Type

TIME LOG

From	To	Elapsed	Code	Details of Operations in Sequence & Remarks

START TIME 16:00 **END TIME** 24:00

FRONT PAGE SUMMARY

Tour Sheet Serial Number Vendor Software Version Year Month Day

Table with 4 columns: Rig No., Well Name, Surface Location, Prov. Loc. Type, Unique Well ID, Kelly Bushing

Table with 4 columns: License No., Operator, Contractor, Well Type, Re-Entry, VERT

DAILY CHECKS

Table with 2 columns: Check Item, Status (HY/ER)

OP RM

Table with 2 columns: Check Item, Status (HY/ER)

FUEL @ 08:00 HOURS

Table with 2 columns: Fuel Type, Amount

WEATHER

Table with 2 columns: Weather Condition, Value

DRILL PIPE

Table with 7 columns: Category, Thread Type, Grade, OD (mm), ID (mm), Linear Mass (kg/m), No. of Joints

CASING

Table with 7 columns: Category, Make, Grade, OD (mm), ID (mm), Linear Mass (kg/m), No. of Joints

MUD PUMPS

Table with 4 columns: No., Make, Stroke Length (mm), Hours

GENERAL EQUIPMENT & SERVICES

Table with 2 columns: Description, Hours



TOUR 1

DRILLING ASSEMBLY table with 4 columns: No., Component, ID (mm), Length (m)

BITS table with 2 columns: Bit Number, Size (mm)

MUD RECORD table with 2 columns: Mud Type, Water (%)

MUD MATERIALS ADDED table with 3 columns: Product, Amount, Type

METRES DRILLED table with 4 columns: From (m), To (m), D-R-C, RPM

HOLE CONDITION table with 2 columns: Hole Drag Up (kdaN), Hole Drag Down (kdaN)

REDUCED PUMP SPEED table with 3 columns: No., Pressure (kpa), Strokes/min

BOILER table with 2 columns: No., Hours Run

TIME LOG table with 4 columns: From, To, Elapsed, Code

TOUR 2

DRILLING ASSEMBLY table with 4 columns: No., Component, ID (mm), Length (m)

BITS table with 2 columns: Bit Number, Size (mm)

MUD RECORD table with 2 columns: Mud Type, Water (%)

MUD MATERIALS ADDED table with 3 columns: Product, Amount, Type

METRES DRILLED table with 4 columns: From (m), To (m), D-R-C, RPM

HOLE CONDITION table with 2 columns: Hole Drag Up (kdaN), Hole Drag Down (kdaN)

REDUCED PUMP SPEED table with 3 columns: No., Pressure (kpa), Strokes/min

BOILER table with 2 columns: No., Hours Run

TIME LOG table with 4 columns: From, To, Elapsed, Code

TOUR 3

DRILLING ASSEMBLY table with 4 columns: No., Component, ID (mm), Length (m)

BITS table with 2 columns: Bit Number, Size (mm)

MUD RECORD table with 2 columns: Mud Type, Water (%)

MUD MATERIALS ADDED table with 3 columns: Product, Amount, Type

METRES DRILLED table with 4 columns: From (m), To (m), D-R-C, RPM

HOLE CONDITION table with 2 columns: Hole Drag Up (kdaN), Hole Drag Down (kdaN)

REDUCED PUMP SPEED table with 3 columns: No., Pressure (kpa), Strokes/min

BOILER table with 2 columns: No., Hours Run

TIME LOG table with 4 columns: From, To, Elapsed, Code





Pason

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FRONT PAGE SUMMARY

Table with columns: Tour Sheet Serial Number, Vendor Software Version, Year, Month, Day, License No., Operator, Contractor, Precision Drilling, Div of PDC, Operator's AFE, Signature of Operator Representative, HALE YARDLEY, ERICK BIGRAS

DAILY CHECKS

Table with columns: Item, Description, Status, Initials. Includes checks for Daily Walk Around Inspection, Detailed Inspection - Weekly, H2S Signs Posted, Well Leakage & Slack Diagram, Flare Lines Staked, 90 Day Drills Performed, Visually Inspected BOP's - Flare Lines & Degasser Lines.

OP RM

Table with columns: Item, Status, Initials. Includes Well Type, Spud Date, Time, Rig Release Date.

FUEL @ 08:00 HOURS

Table with columns: Fuel Type, Quantity, Status. Includes Diesel, Fuel Oil, Fuel Gas, Fuel Oil, Fuel Gas.

DRILL PIPE

Table with columns: Category, Thread Type, Grade, OD (mm), ID (mm), Linear Mass (kg/m), No. of Joints, Tool Joint OD (mm). Includes DP, DC, HW.

MUD PUMPS

Table with columns: No., Make, Stroke Length (mm). Includes 1 BPMP, 2 BPMP.

GENERAL EQUIPMENT & SERVICES

Table with columns: Description, Hours. Includes MUD PUMP, MANIFOLD, LOADER.

SHALE SHAKERS

Table with columns: No., Top Screen, Middle Screen, Bottom Screen. Includes 1, 2.

TOUR 1

DRILLING ASSEMBLY table with columns: No., Component, OD (mm), ID (mm), Length (m). Includes Drill Pipe, Stands, Drill Pipe, Singles, Weight of DC, Kally Down, Weight of string.

BITS table with columns: Bit Number, Size, IADC Code, Manufacturer, Type, Serial No., Jets, Depth Out, Depth In, Total Drilled, Hrs Run Today, Cumulative Hrs Run, Entry Date, DULL GRADE.

MUD RECORD table with columns: Mud Type, Water, Oil, Other, Density, Funnel Viscosity, Fluid Loss, pH, Location, Depth, PVT, SOLIDS CONTROL, SAFETY, CONNECTIONS.

MUD MATERIALS ADDED table with columns: Product, Amount, Type. Includes DRISPAC PLUS REGULAR, STARDRILL, LIGNITE.

METRES DRILLED table with columns: From (m), To (m), D-R-C, RPM, WOB (kdaN). Includes 1221, 1311, DRILL, 100, 4.

HOLE CONDITION table with columns: Hole Drag Up, Hole Drag Down, Torque at Bottom, Fill on Bottom. Includes 4, 2, 0, 0.

REDUCED PUMP SPEED table with columns: No., Pressure (kpa), Strokes/min, Depth (m). Includes 1, 2730, 0, 60, 1240.

BOILER table with columns: No., Hours Run, pH, Stack Temp (°C). Includes 98, 8.00, 10.5, 300.00.

TIME LOG table with columns: From, To, Elapsed, Code. Includes 00:00, 00:30, 0:50, 6A, TRIP IN TO BOTTOM, 00:30, 00:45, 0:25, 5, FILL PIPE, 00:45, 01:00, 0:25, 7, RIG SERVICE (FUNC. ANNULAR 13 SEC. TO CLOSE), 01:00, 04:15, 3:25, 2, DRILL 200mm HOLE F/ 1221m TO 1268m, 04:15, 04:30, 0:25, 10, SURVEY @ 1267m 0.5DEG, 04:30, 06:00, 1:50, 2, DRILL 200mm HOLE F/ 1268m TO 1278m, 06:00, 06:15, 0:25, 21, CREW HANDOVER MEETING, 06:15, 08:00, 1:75, 2, DRILL 200mm HOLE F/ 1278m TO 1311M.

TOUR 2

DRILLING ASSEMBLY table with columns: No., Component, OD (mm), ID (mm), Length (m). Includes Drill Pipe, Stands, Drill Pipe, Singles, Weight of DC, Kally Down, Weight of string.

BITS table with columns: Bit Number, Size, IADC Code, Manufacturer, Type, Serial No., Jets, Depth Out, Depth In, Total Drilled, Hrs Run Today, Cumulative Hrs Run, Entry Date, DULL GRADE.

MUD RECORD table with columns: Mud Type, Water, Oil, Other, Density, Funnel Viscosity, Fluid Loss, pH, Location, Depth, PVT, SOLIDS CONTROL, SAFETY, WILDLIFE.

MUD MATERIALS ADDED table with columns: Product, Amount, Type. Includes CAUSTIC, DRISPAC PLUS REGULAR, STARDRILL, LIGNITE, MF-VIS.

METRES DRILLED table with columns: From (m), To (m), D-R-C, RPM, WOB (kdaN). Includes 1311, 1395, DRILL, 95, 4.

HOLE CONDITION table with columns: Hole Drag Up, Hole Drag Down, Torque at Bottom, Fill on Bottom. Includes 2, 3, 45, 0.

REDUCED PUMP SPEED table with columns: No., Pressure (kpa), Strokes/min, Depth (m). Includes 1, 2665, 0, 70, 1315.

BOILER table with columns: No., Hours Run, pH, Stack Temp (°C). Includes 98, 8.00, 10.0, 300.00.

TIME LOG table with columns: From, To, Elapsed, Code. Includes 08:00, 08:15, 0:25, 7, RIG SERVICE FUNCTION PIPE RAMS CLOSED IN 4 SECONDS, 08:15, 10:30, 2:25, 2, DRILL FROM 1311M TO 1345M, 10:30, 10:45, 0:25, 10, DEVIATION SURVEY, 10:45, 16:00, 5:25, 2, DRILL FROM 1345M TO 1399M.

TOUR 3

DRILLING ASSEMBLY table with columns: No., Component, OD (mm), ID (mm), Length (m). Includes BIT, BIT SUB, TELEDRIFT, DC, LARS-HYD, DC, KIO, HWDP.

BITS table with columns: Bit Number, Size, IADC Code, Manufacturer, Type, Serial No., Jets, Depth Out, Depth In, Total Drilled, Hrs Run Today, Cumulative Hrs Run, Entry Date, DULL GRADE.

MUD RECORD table with columns: Mud Type, Water, Oil, Other, Density, Funnel Viscosity, Fluid Loss, pH, Location, Depth, PVT, SOLIDS CONTROL, SAFETY, DOWN HOLE TORQUE.

MUD MATERIALS ADDED table with columns: Product, Amount, Type. Includes MF-VIS.

METRES DRILLED table with columns: From (m), To (m), D-R-C, RPM, WOB (kdaN). Includes 1399, 1420, DRILL, 95, 4.

HOLE CONDITION table with columns: Hole Drag Up, Hole Drag Down, Torque at Bottom, Fill on Bottom. Includes 1, 3, 45, 0.

REDUCED PUMP SPEED table with columns: No., Pressure (kpa), Strokes/min, Depth (m). Includes 1, 2665, 0, 70, 1314.

BOILER table with columns: No., Hours Run, pH, Stack Temp (°C). Includes 98, 8.00, 10.5, 300.00.

TIME LOG table with columns: From, To, Elapsed, Code. Includes 16:00, 16:15, 0:25, 7, RIG SERVICE FUNCTION HCR 15SEC OPENED, 16:15, 18:00, 1:75, 2, DRILL FROM 1399M TO 1415M, 18:00, 18:15, 0:25, 21, HANDOVER SAFETY MEETING, 18:15, 18:30, 0:25, 2, DRILL 200mm HOLE F/ 1415m TO 1420m, 18:30, 18:45, 0:25, 10, SURVEY @ 1419m 0.5 DEG, 18:45, 20:45, 2:00, 5, CIRG. HOLE CLEAN & CONDITION MUD, 20:45, 21:45, 1:00, 6A, CLEAN OUT TRIP(11STANDS, FLOW CHECKS @ 1409, 1314m HOLE FILL VOL. = ACTUAL, 21:45, 22:45, 1:00, 6A, 1.58- CALG. 0.57- DIFF. 1.01), 22:45, 24:00, 1:25, 5, RUN IN 11 STD'S TO BOTTOM, 22:45, 24:00, 1:25, 5, CIRCULATE HOLE CLEAN & CONDITION MUD FOR LOGGING.

**FRONT PAGE SUMMARY**

License No.	Operator	Contractor	Well Type	Re-Entry
1221	PARAMOUNT RESOURCES LTD.	PRECISION DRILLING, DIV OF PDC	VERT	<input type="checkbox"/>
	Operator's AFE	Contractor's Job No	Spud Date	Time
	08NO 10009	354	2010/02/06	01:00
	Signature of Operator Representative	Signature of Contractor's Rig manager	Rig Release Date	Time
	HAILE YARDLEY	ERICK BIGRAS		

DAILY CHECKS

1) Daily Walk Around Inspection	OP	RM
2) Deferral Inspection - Weekly Fishing Check List		
3) H2S Signs Posted if Required		
4) Well Licence & Stock Diagram Posted		
5) Flare Lines Staked		
6) BOP Trils Performed		
7) Visually Inspected BOPs - Flare Lines & Degasser Lines		
8) Rig Site Health & Safety Meeting (once/week/month)		
9) CAH2S Risk Safety Inspection Checklist (once/10/15/month)		
10) Mast Inspection before Raising or Lowering		
11) Crown Saver Checked		
12) Motor Xibs Checked		

FUEL @ 08:00 HOURS

Rig	08:00
Bolter	
Op Fuel	
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	Test Joint OD (mm)

MUD PUMPS

No.	Make	Stroke Length (mm)

GENERAL EQUIPMENT & SERVICES

Description	Hours

TOUR 1

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	200	0	0.20
1	BIT SUB	158	64	0.71
1	TELEDRIFT	158	65	2.62
6	DC (6.25 IN)	158	65	45.01
1	POMY DC	158	65	4.60
1	JARS-HYD	158	65	5.26
9	DC (6.25 IN)	158	65	82.50
1	X/O	158	65	0.27
6	HWDP(4.0 IN)	135	65	55.44

SIGNATURE OF DRILLER

Joe Leadley

START TIME

00:00

END TIME

08:00

TOUR 2

No.	Component	OD (mm)	ID (mm)	Length (m)
1	BIT	200	0	0.20
1	BIT SUB	158	64	0.71
1	TELEDRIFT	158	65	2.62
6	DC (6.25 IN)	158	65	49.61
1	JARS-HYD	158	65	5.26
9	DC (6.25 IN)	158	65	82.50
1	X/O	158	65	0.27
6	HWDP(4.0 IN)	135	65	55.44

SIGNATURE OF DRILLER

Peter Wanczyk

START TIME

08:00

END TIME

16:00

TOUR 3

No.	Component	OD (mm)	ID (mm)	Length (m)
62	Drill Pipe			1184.44
1	Drill Pipe			9.59
	Weight of DC (kdaN)			8.36
	Weight of string (kdaN)			1399.00

SIGNATURE OF DRILLER

Joe Leadley

START TIME

16:00

END TIME

24:00



Pason

1310

FRONT PAGE SUMMARY

Table with columns: License No., Operator, Tour Sheet Serial Number, Vendor Software Version, Year, Month, Day, Rig No., Well Name, Surface Location, Flow Loc Type, Unique Well ID, Kelly Bushing, Signature of Operator Representative, Signature of Contractor's Rig Manager, Signature of Operator Representative, Signature of Contractor's Rig Manager.

DAILY CHECKS

Table with columns: Item, Status, Date, Initials. Includes checks for Daily Walk Around Inspection, Detailed Inspection, H2S Signs Posted, Well Licence & Stock Diagram Posted, Flare Lines Status, Visually Inspected BOPs, Flare Lines & Engasser Lines, Well Site Health & Safety Meeting, CAUDC Rig Safety Inspection Checklist, Mast Inspection, Crown Saver Checked, Motor Valve Checked.

FUEL @ 08:00 HOURS

Table with columns: Fuel Type, Amount, Status. Includes Diesel, Oil, and other fuel types.

DRILL PIPE

Table with columns: Category, Thread Type, Grade, OD (mm), ID (mm), Linear Mass (kg/m), No. of Joints, Tool Joint OD (mm). Lists various drill pipe specifications.

MUD PUMPS

Table with columns: No., Make, Stroke Length (mm), Description, Hours. Lists mud pump models and their usage.

GENERAL EQUIPMENT & SERVICES

Table with columns: Description, Hours. Lists various equipment and services used during the operation.

SHALES SHAKERS

Table with columns: No., Size, Changed, New, Middle Screen, Bottom Screen. Lists shale shaker specifications.

TOUR 1

DRILLING ASSEMBLY table for Tour 1, listing components like Drill Pipe, Stands, Single, and Kelly Down.

BITS table for Tour 1, listing Bit Number, Size, Manufacturer, Type, Serial No., Jets, and Depth Out.

MUD RECORD table for Tour 1, listing Mud Type, Water, Oil, Other, Density, Funnel Viscosity, Fluid Loss, pH, Location, Depth, FVT.

MUD MATERIALS ADDED table for Tour 1, listing Product, Amount, Type. Includes Barite.

METRES DRILLED table for Tour 1, listing From, To, D-R-C, RPM, WOB. Includes Reduced Pump Speed and Circulation data.

HOLE CONDITION table for Tour 1, listing Hole Drag Up, Hole Drag Down, Torque at Bottom, Fill on Bottom. Includes Boiler and Deviation Surveys data.

TIME LOG table for Tour 1, listing From, To, Elapsed, Code, Details of Operations in Sequence & Remarks. Includes pump fill, rig service function, and logging operations.

TOUR 2

DRILLING ASSEMBLY table for Tour 2, listing components like Drill Pipe, Stands, Single, and Kelly Down.

BITS table for Tour 2, listing Bit Number, Size, Manufacturer, Type, Serial No., Jets, and Depth Out.

MUD RECORD table for Tour 2, listing Mud Type, Water, Oil, Other, Density, Funnel Viscosity, Fluid Loss, pH, Location, Depth, FVT.

MUD MATERIALS ADDED table for Tour 2, listing Product, Amount, Type. Includes Barite, MF-VIS, and CAUSTIC.

METRES DRILLED table for Tour 2, listing From, To, D-R-C, RPM, WOB. Includes Reduced Pump Speed and Circulation data.

HOLE CONDITION table for Tour 2, listing Hole Drag Up, Hole Drag Down, Torque at Bottom, Fill on Bottom. Includes Boiler and Deviation Surveys data.

TIME LOG table for Tour 2, listing From, To, Elapsed, Code, Details of Operations in Sequence & Remarks. Includes rig service function, logging, and trip in hole operations.

TOUR 3

DRILLING ASSEMBLY table for Tour 3, listing components like Drill Pipe, Stands, Single, and Kelly Down.

BITS table for Tour 3, listing Bit Number, Size, Manufacturer, Type, Serial No., Jets, and Depth Out.

MUD RECORD table for Tour 3, listing Mud Type, Water, Oil, Other, Density, Funnel Viscosity, Fluid Loss, pH, Location, Depth, FVT.

MUD MATERIALS ADDED table for Tour 3, listing Product, Amount, Type. Includes Barite, MF-VIS, and CAUSTIC.

METRES DRILLED table for Tour 3, listing From, To, D-R-C, RPM, WOB. Includes Reduced Pump Speed and Circulation data.

HOLE CONDITION table for Tour 3, listing Hole Drag Up, Hole Drag Down, Torque at Bottom, Fill on Bottom. Includes Boiler and Deviation Surveys data.

TIME LOG table for Tour 3, listing From, To, Elapsed, Code, Details of Operations in Sequence & Remarks. Includes trip in hole, handover, wash to bottom, and lay down operations.



Pason

617

FRONT PAGE SUMMARY

Table with columns: Tour, Shift, Serial Number, Vendor, Software Version, Year, Month, Day. Includes details for tour 20100214_1A.

DAILY CHECKS

Table with columns: Item, Description, Status (HV, ER, etc.). Lists various safety and equipment checks.

OP RM

Table with columns: Item, Description, Status. Lists operational readiness items.

FUEL @ 08:00 HOURS

Table with columns: Fuel Type, Quantity, Status. Lists fuel levels for various equipment.

DRILL PIPE

Table with columns: Category, Thread Type, Grade, OD, ID, Linear Mass, etc. Lists drill pipe specifications.

MUD PUMPS

Table with columns: No., Make, Stroke Length, Hours. Lists mud pump details.

GENERAL EQUIPMENT & SERVICES

Table with columns: Description, Hours. Lists other equipment and services used.

TOUR 1

DRILLING ASSEMBLY table for Tour 1, listing components like BIT, JARS, etc.

BITS table for Tour 1, listing bit details like BIT Number, Size, etc.

MUD RECORD table for Tour 1, listing mud properties like Density, Viscosity, etc.

MUD MATERIALS ADDED table for Tour 1, listing added materials like GELLOPHANE.

METRES DRILLED table for Tour 1, listing drilling progress.

HOLE CONDITION table for Tour 1, listing hole status.

REDUCED PUMP SPEED table for Tour 1, listing pump speed adjustments.

BOILER table for Tour 1, listing boiler operating parameters.

TIME LOG table for Tour 1, listing operation times and remarks.

TOUR 2

DRILLING ASSEMBLY table for Tour 2.

BITS table for Tour 2.

MUD RECORD table for Tour 2.

MUD MATERIALS ADDED table for Tour 2.

METRES DRILLED table for Tour 2.

HOLE CONDITION table for Tour 2.

REDUCED PUMP SPEED table for Tour 2.

BOILER table for Tour 2.

TIME LOG table for Tour 2.

TOUR 3

DRILLING ASSEMBLY table for Tour 3.

BITS table for Tour 3.

MUD RECORD table for Tour 3.

MUD MATERIALS ADDED table for Tour 3.

METRES DRILLED table for Tour 3.

HOLE CONDITION table for Tour 3.

REDUCED PUMP SPEED table for Tour 3.

BOILER table for Tour 3.

TIME LOG table for Tour 3.



FRONT PAGE SUMMARY		Tour Sheet Serial Number 052245_20100215_1B	Version Software Version Pason	Year 2010	Month 02	Day 15
Rig No.	Well Name	Surface Location	Prov	Loc Type	Unique Well Id	Kelly Bushing
245	Para et al Cameron F-77	69-98-28-30N/172-28-04W	NT	CAG	300F116010117150	4
License No.	Operator	Contractor	Well Type	Re-Entry		
1221	PARAMOUNT RESOURCES LTD	PRECISION DRILLING, DIV OF PDC	VERT	<input type="checkbox"/>		
Operator's Aff	Contractor's Job No					
OPNO10009	154					
Signature of Operator Representative	Signature of Contractor's Rig manager					
JOSH BLINSTON	ERICK BIGRAS					
		Start Date	Time			
		2010/02/06	01:00			
		Rig Release Date	Time			
		2010/02/15	08:00			

DAILY CHECKS	
1) Daily Visual Inspection	
2) Detailed Inspection - Weekly (Daily Check List)	
3) RPS Signs Posted & Reinsured	
4) Well Log & Slick Diagram Posted	
5) Flare Line Checked	
6) BOP Drills Performed	
7) Visually Inspected BOPs - Flare Lines & Depressor Lines	
8) Rig Site Health & Safety Meeting (one/week/month)	
9) CADC Rig Safety Inspection Checklist (one/1g/month)	
3) Mast Inspection before Raising or Lowering	
4) Crown Saver Checked	
5) Water Tank Checked	

FUEL @ 08:00 HOURS	
Rig	
Boiler	
Op Fuel	
WEATHER	
Time	06:00
Temp	-13
Current Conditions	CLEAR
Wind Direction	NE
Wind Strength	UP TO 1g 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)
DP	4"FH	SS66	102	65	23.8300	185	
DC	4.5" XH	DC	158	58	134.0000	18	
HW	4" FH	HWDP	102	65	41.6400	8	
CASING							
Category	Make	Grade	OD (mm)	ID (mm)	Linear Mass (kg/m)	No. of Joints	Total Length (m)
SURFACE	LKSID	J-55	219	206	35.72	28	378
PRODUCTION	PARAGON	J-55	140	127	20.83	118	1469

MUD PUMPS		
No.	Make	Stroke Length (mm)
1	BPMP	229
2	BPMP	229

GENERAL EQUIPMENT & SERVICES	
Description	Hours
MUD PUMP	24.00
MANIFOLD	24.00
LOADER	24.00

SHALE SHAKERS				
No.	Top Screen	Middle Screen	Middle Screen	Bottom Screen
1	Size Changed	New Size	Changed New	Size Changed New
	50 (in)	84 (in)	84 (in)	84 (in)

TOUR 1				
DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
BITS				
Bit Number	2			
Size (mm)	200			
MDC Code	M 2 2 2			
Manufacturer	REED			
Type	DSX416M-ASPDC			
Serial No	114178			
Jets (mm)	12.0 12.0 12.0 12.0			
Depth Out (m)				
Depth In (m)	379			
Total Drilled (m)				
Hrs Run Today				
Cumulative Hrs Run	64.75			
Entry Date	2010/01/13			
DULL GRADE				
T ₁	Gage (mm)			
T ₂	ODC			
MDC	Reason Pulled			
LOC	Total Run (m/h)			
BRG				
Drill Pipe	Stands (m)			
Drill Pipe	Singles (m)			
Weight of DC (kdaN)	Kelly Down (m)			
Weight of string (kdaN)	Total (m)			

SIGNATURE OF DRILLER	
JOE LEADLEY	
MUD RECORD	
Mud Type	Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>
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 (kdaN) MACP (kpa)
TEAR OUT	0 0

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)	
1	0	0	0.00	
2	0	0	0.00	
CIRCULATION				
Pump Type	Line Size (mm)	SPM	Pressure (kpa)	Hours Run
1	152	0	0	0.00
2	152	0	0	0.00
Remarks:				

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)	
08	8.00	10.5	280.00	
DEVIATION SURVEYS				
Time	Depth (m)	Deviation	Direction	Type

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
00:00	02:00	2:00	22	TEAR OUT FLARE TANK AND ASSOCIATED LINES. CLOSE UP MANIFOLD SHACK, PUT LINES AWAY. CLOSE UP SHACKS
02:00	02:15	0:15	21D	SAFETY MEETING W/ CREW
02:15	03:15	1:00	BA	SLIP & CUT 12.8m
03:15	04:00	0:45	21D	RIG UP FLOOR TO LOWER TOP SECTION & DERRICK
04:00	06:00	2:00	22	CONTINUE TO TEAR OUT REST OF RIG FOR MOVE
06:00	06:15	0:15	21	CREW CHANGE HAND OVER MEETING
06:15	07:30	1:15	22	INSPECT DERRICK PRIOR TO LAY DOWN E.B AND P.I. + LAY OUT DERRICK
07:30	08:00	0:30	22	TEAR DOWN
Remarks: DWA FUNC. CROWN SAVER INSPECTED BRAKES & LINKAGES, VISUALLY INSPECT DERRICK, BRIDAL LINES VISUALLY INS DERRICK PRIOR TO LAY DOWN E.B.&P.I. BLOW BOILER 4x 150L RIG RELEASE FEB/15/2010 AT 8:00am HALE YARDLEY.				

START TIME		00:00
END TIME		08:00

TOUR 2				
DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
BITS				
Bit Number	3			
Size (mm)	200			
MDC Code				
Manufacturer	VAREL			
Type	TGR HE18MSV			
Serial No	250658			
Jets (mm)	18.0 18.0 18.0			
Depth Out (m)				
Depth In (m)	1420			
Total Drilled (m)				
Hrs Run Today				
Cumulative Hrs Run	0.00			
Entry Date	2010/02/13			
DULL GRADE				
T ₁	Gage (mm)			
T ₂	ODC			
MDC	Reason Pulled			
LOC	Total Run (m/h)			
BRG				
Drill Pipe	Stands (m)			
Drill Pipe	Singles (m)			
Weight of DC (kdaN)	Kelly Down (m)			
Weight of string (kdaN)	Total (m)			

SIGNATURE OF DRILLER	
PETER JANCZYK	
MUD RECORD	
Mud Type	Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>
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 (kdaN) MACP (kpa)
CONFINED SPACE	

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)	
1	0	0	0.00	
2	0	0	0.00	
CIRCULATION				
Pump Type	Line Size (mm)	SPM	Pressure (kpa)	Hours Run
1	152	0	0	0.00
2	152	0	0	0.00
Remarks:				

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)	
08	8.00	10.0	285.00	
DEVIATION SURVEYS				
Time	Depth (m)	Deviation	Direction	Type

TIME LOG				
From	To	Elapsed	Code	Details of Operations in Sequence & Remarks
08:00	16:00	8:00	22	TEAR DOWN + MOVE ALL 3rd Party EQUIPMENT INTO NEW LOCATION AND W/ON WELL LICENSE
Remarks: VISUALLY INSPECT BRAKE, ROLLERS, PINS AND LINKAGE, CHECK DEADMAN NUTS AND BOLTS. BLOWDOWN BOILER 4X150L				

START TIME		08:00
END TIME		16:00

TOUR 3				
DRILLING ASSEMBLY				
No.	Component	OD (mm)	ID (mm)	Length (m)
BITS				
Bit Number	3			
Size (mm)	200			
MDC Code				
Manufacturer	VAREL			
Type	TGR HE18MSV			
Serial No	250658			
Jets (mm)	18.0 18.0 18.0			
Depth Out (m)				
Depth In (m)	1420			
Total Drilled (m)				
Hrs Run Today				
Cumulative Hrs Run	0.00			
Entry Date	2010/02/13			
DULL GRADE				
T ₁	Gage (mm)			
T ₂	ODC			
MDC	Reason Pulled			
LOC	Total Run (m/h)			
BRG				
Drill Pipe	Stands (m)			
Drill Pipe	Singles (m)			
Weight of DC (kdaN)	Kelly Down (m)			
Weight of string (kdaN)	Total (m)			

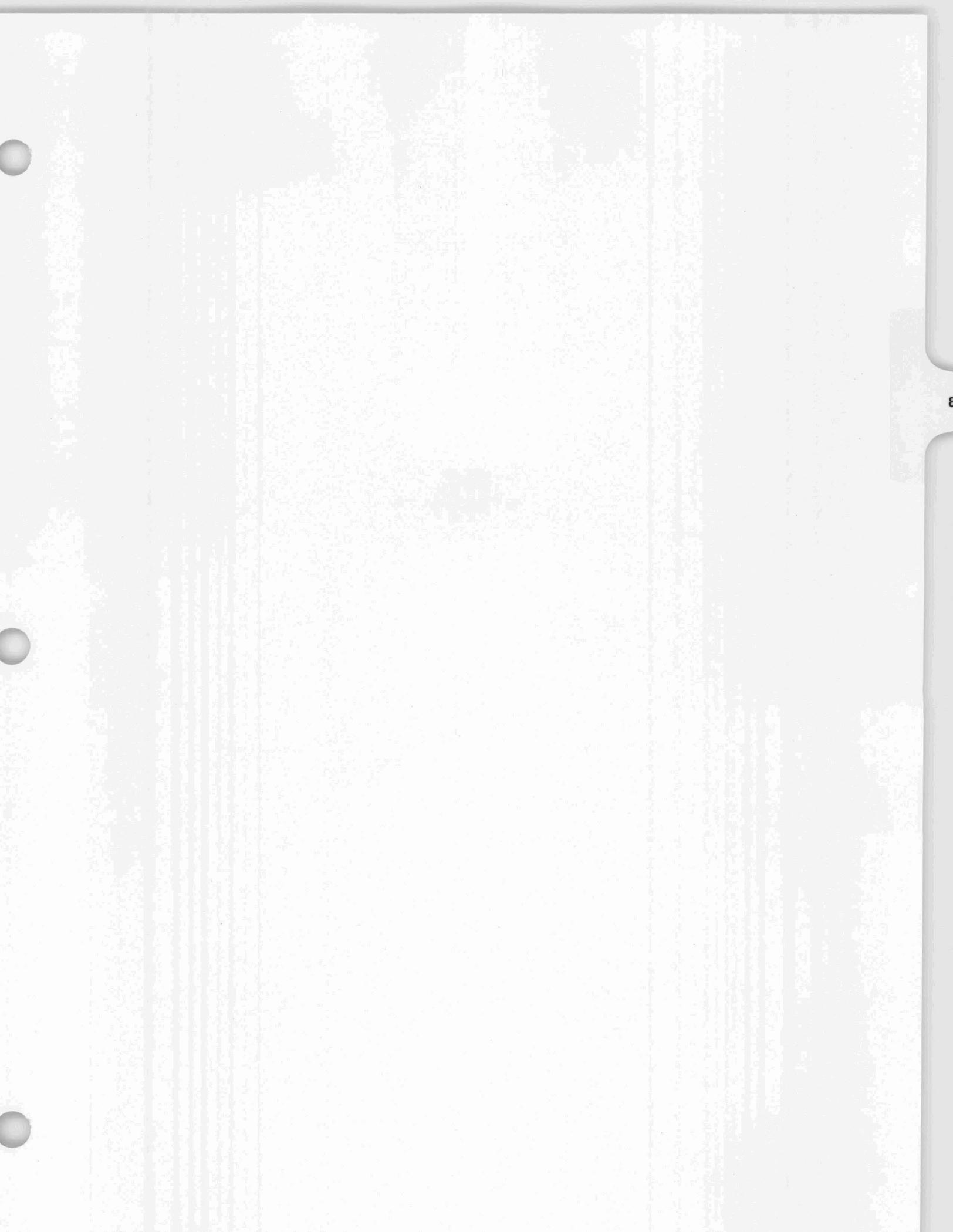
SIGNATURE OF DRILLER	
JOE LEADLEY	
MUD RECORD	
Mud Type	Water <input type="checkbox"/> Oil <input type="checkbox"/> Other <input type="checkbox"/>
Time	
Density (kg/m ³)	
Funnel Viscosity (cP)	
Fluid Loss (cm)	
pH	
Location	
Depth (m)	
PVT (m)	
SOLIDS CONTROL	
Equipment Name	Hours Run Intake Density (kg/m ³) Over Flow Density (kg/m ³) Under Flow Density (kg/m ³)
SAFETY	
Safety Topic	MEHL (kdaN) MACP (kpa)
MAINTENANCE	

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)	
1	0	0	0.00	
2	0	0	0.00	
CIRCULATION				
Pump Type	Line Size (mm)	SPM	Pressure (kpa)	Hours Run
1	152	0	0	0.00
2	152	0	0	0.00
Remarks:				

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
16:00	24:00	8:00	25	W/ON MORNING TO MOVE BUILDING INTO NEW LOCATION (W/ON WELL LICENSE)
Remarks:				

START TIME		16:00
END TIME		24:00





Drilling Fluid Report

Current Activity	Rigging Up		
Date	February 4, 2010	Check Number	1
Spud Date	February 6, 2010	Days From Spud	-2
Location	F-77-60/10-11-15		
Contractor	Precision 245		
Report for	Erick Bigras		

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	Josh Blinston (ph. 4038603569)

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.	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	0.5	Circulation Time	
Bit Size(mm)	311					D.C.	68.0	212.0	17.9		N/A		N/A	-56.2	N/A	Ann Vol.	0.0	BTMs Up	0
Type	HE04SMRSV					D.C.	65.0	158.0	123.1		N/A		N/A	-101.	N/A	Tank	40.0	Total	20
Nozzles (mm)						H.W.D.P.	65.0	102.0			N/A		N/A	N/A	N/A	Tot. Cr. Vol	40.5	Water Added	
N1:	14.3	N2:	14.3													Open Hole	0.0	Mud Lost	
N3:	14.3	N4:																	
N5:		N6:																	
N7:		N8:																	
TFA	482																		
Depth In	0																		
Depth Out																			
Hrs. on Bit																			
Drill Rate	0.0																		
R.P.M.		HHP			115.59														
WOB (daN)		% Pressure at Bit			46.56														
Nozzle Vel	66.6																		
Bit Press..	2607	Check #1			Check #2														
Mud System	WaterBasedMud																		
Depth MD / TVD (m)	0 / 0																		
Time Sample Taken	21:00																		
Flowline Temp (C)	4																		
Funnel Viscosity (sec/L)	28																		
Mud Density (kg/m3)	1000																		
Hyd. Grad. (kPa/m)	9.81																		
ECD (kg/m3)																			
pH <input checked="" type="checkbox"/> STRIP <input type="checkbox"/> METER	8.0																		
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 (%)																			
Corr. 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 (PPM/F)	0.1 / 0.1																		
Hydroxyl (mg/L)																			
Carbonate (mg/L)	60																		
Bicarbonate (mg/L)																			
Total Hardness (mg/L)	60																		
Chlorides (mg/L)	160																		
Potassium (mg/L)																			
0.2 N HCl / 2.0 N HCl (cc's)																			
SiIcate% v/v / SiIcate %																			
Clear Fluid Density (kg/m3)	1000																		
SI02:K2O Ratio						T.S.R													
Soluble Sulfides <input type="checkbox"/> HAC <input type="checkbox"/>						Cell													
Polymer (kg/m3)						Pager/Home #													

Summary of Activity - Comments, Observations, Pilot Tests

Remarks, Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.

Feb 4 2010 : Moved on and rigged to spud.

Recommended Treatment - Suggestions

WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS'S/LABELS FOR MORE INFORMATION.

Spud Report

- Fill tanks to desired level, gun and agitate all compartments.
- Mix 10 pails of Shure Shale through grating at 1-2 min/pail.
- Mix 1 sx of Millzan to increase funnel visc.
- Mix 2 sxs of Hyperdrill 247 to warm water in pill tank and allow to hydrate for 1-2 hrs. Once circulating, bleed into system over several hours while drilling ahead.
- Run centrifuge consistently to strip drill solids, injecting Alka Pam 1103RD only when weight increases to above 1060 kg/m3.
- Add water to system to maintain 35-40m3 or as per company man. We need 6-7m3 fresh water per 100m new hole drilled.

System Maintenance:

- Mud Rings : if bit balling is suspected or connections are sticky, mix 1 pail of Detergent at suction and 1 visc cup of TKPP per connection down drill pipe to reduce. Do not mix more than 1 pail DD.
- Allow natural clays to build viscosity, do not mix Gel. Gravel is expected at 30-50m, rocks at 50-60m, and sand 90-120m. Ensure proper visc using Millzan mixed 1 sx per circ, if required, for proper hole cleaning.
- Mix 1 sx of Hyperdrill 247 into pill tank and allow to hydrate for 1 hr. Add to system over 3-4 hrs, each 12 hr shift.
- If pH increases over 8, mix 1 sx Citric Acid over 1 circ to reduce to 7-7.5
- Ensure funnel visc of 60-70 sec/L prior to wiper trip, mixing 1 sx Millzan and 5-10 sxs of Gel.
- After wiper trip, add 20 L/min fresh water, 1 sx Millzan and 10 sxs Gel to increase FV to 80-100

Materials Used Since Last Check

Products	Products	Products

Cost Information

Cost Since Last Check	Total Cost to Date

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	Josh Blinston (ph. 4038603569)

Current Activity	Drilling Ahead 311mm Surface at 111m		
Date	February 6, 2010	Check Number	2
Spud Date	February 6, 2010	Days From Spud	0
Location	F-77-60/10-11-15		
Contractor	Precision 245		
Report for	Erick Bigras		

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Bit Record		Casings				Drilling Assembly										Volumes (m3)		Hole Enlarge %		
Bit No.	1RR	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	0.4	Circulation Time		
Bit Size(mm)	311					D.C.	68.0	212.0	17.9	45.3	LAM		N/A		N/A	Ann Vol.	6.3	BTM's Up	3	
Type	HE04SMRSV					D.C.	65.0	158.0	68.0	32.7	LAM		N/A		N/A	Tank	54.0	Total	33	
Nozzles (mm)						D.P.	65.0	102.0	25.1	27.2	LAM		N/A		N/A	Tot. Cir. Vol	60.6	Water Added		
N1:	14.3	N2:	14.3													Open Hole	8.4	Mud Lost		
N3:	14.3	N4:																		
N5:		N6:																		
N7:		N8:																		
TFA	482																			
Depth In	0																			
Depth Out																				
Hrs. on Bit																				
Drill Rate	10.0																			
R.P.M.		HHP			97.04															
WOB (daN)		% Pressure at Bit			58.76															
Nozzle Vel	63.7																			
Bit Press..	2358	Check #1			Check #2															
Mud System	WaterBasedMud					Summary of Activity - Comments, Observations, Pilot Tests														
Depth MD / TVD (m)	111	/	111		/	Remarks; Hole conditions tripping & drilling, Cuttings description, Torque & drag, Reaming, Bridges; etc.														
Time Sample Taken	11:00					Feb 6 2010 : Prespud safety meeting. Spud well at 01:00 hrs. Drilled ahead 311mm surface hole from 0-111m at mudcheck. Added Shure Shale, Millzan and Hyperdrill 247 RD to tanks. Currently drilling ahead with no problems reported.														
Flowline Temp (C)	19																			
Funnel Viscosity (sec/L)	33																			
Mud Density (kg/m3)	1050																			
Hyd. Grad. (kPa/m)	10.30																			
ECD (kg/m3)	1055					Recommended Treatment - Suggestions														
pH	<input checked="" type="checkbox"/> STRIP	<input type="checkbox"/> METER	8.0			WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.														
Plastic Viscosity (mPa)	6.0					Daylights														
Yield Point (Pa)	1.9					Mix Millzan as required, 1 sx per circulation, to increase funnel visc to 40-45 sec/L and maintain.														
Gel Strength (Pa) 10s/10min	1.0	/	2.0		/	System Maintenance :														
N Low / K low	0.25	/	1.34		/	- Mud Rings : if bit balling is suspected or connections are sticky, mix 1 pail of Detergent at suction and 1 visc cup of TKPP per connection down drill pipe to reduce. Do not mix more than 1 pail DD.														
N Med / K med	0.68	/	0.15		/	- Allow natural clays to build viscosity, do not mix Gel. Gravel is expected at 30-50m, rocks at 50-60m, and sand 90-120m. Ensure proper visc using Millzan mixed 1 sx per circ, if required, for proper hole cleaning.														
Filtrate (cm3/30min@700kPa)	16.0					- Mix 1 sx of Hyperdrill 247 into pill tank and allow to hydrate for 1 hr. Add to system over 3-4 hrs, each 12 hr shift.														
Filter Cake (mm)	1.0					- If pH increases over 8, mix 1 sx Citric Acid over 1 circ to reduce to 7-7.5														
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@					- Ensure funnel visc of 60-70 sec/L prior to wiper trip, mixing 1 sx Millzan and 5-10 sxs of Gel.														
Filter Cake (mm)						- After wiper trip, add 20 L/min fresh water, 1 sx Millzan and 10 sxs Gel to increase FV to 80-100 sec/L.														
Sand Content (%)	.25					Thanks,														
Total Solids (%)	3.125					Shannon														
Corr. Solids (%)																				
Oil Content (%)																				
M.B.T. (kg/m3)	43																			
HGS (kg/m3) / %	0.00	/	0.0		/															
LGS (kg/m3) / %	81.26	/	3.1		/															
Drilled solids (kg/m3)	38.51																			
Bentonite (kg/m3)																				
Avg. Density (kg/m3)	2600																			
Alkalinity (PFM/F)	0.0	/	0.1		/	Materials Used Since Last Check														
Hydroxyl (mg/L)						Products			Products			Products								
Carbonate (mg/L)	12																			
Bicarbonate (mg/L)	122																			
Total Hardness (mg/L)	60																			
Chlorides (mg/L)	700																			
Potassium (mg/L)																				
0.2 N HCl / 2.0 N HCl (cc's)						Cost Information														
Silicate % w/v / Silicate %						Cost Since Last Check			\$950.00			Total Cost to Date			\$950.00					
Clear Fluid Density (kg/m3)	1000					Marquis Alliance Representatives														
SiO2:K2O Ratio						T.S.R			Shannon Williams			Trucking Company								
Soluble Sulfides <input type="checkbox"/> HAC <input type="checkbox"/>						Cell			780-691-2295			Warehouse								
Polymer (kg/m3)	0.10					Pager/Home #			780-895-2688			Phone #								



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	Josh Blinston (ph. 4038603569)
Report For	Hale Yardley

Current Activity	Drilling Ahead 311mm Surface at 320m		
Date	February 7, 2010	Check Number	3
Spud Date	February 6, 2010	Days From Spud	1
Location	F-77-60/10-11-15		
Contractor	Precision 245		
Report for	Erick Bigras		
Report for			

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Bit Record		Casings				Drilling Assembly								Volumes (m3)		Hole Enlarge %																																	
Bit No.	1RR	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	1.1	Circulation Time																															
Bit Size(mm)	311					D.C.	68.0	212.0	17.9	47.6	LAM		N/A		N/A	Ann Vol.	20.4	BTM's Up	11																														
Type	HE04SMRSV					D.C.	65.0	158.0	68.0	34.3	LAM		N/A		N/A	Tank	50.2	Total	37																														
Nozzles (mm)						D.P.	65.0	102.0	234.1	28.6	LAM		N/A	-236.	N/A	Tot. Cr. Vol	71.7	Water Added																															
N1:	14.3	N2:	14.3													Open Hole	24.3	Mud Lost	15																														
N3:	14.3	N4:																																															
N5:		N6:																																															
N7:		N8:																																															
TFA	482																																																
Depth In	0																																																
Depth Out																																																	
Hrs. on Bit	25.5																																																
Drill Rate	13.0																																																
R.P.M.	142	HHP		113.93																																													
WOB (daN)		% Pressure at Bit		37.97																																													
Nozzle Vel	67.0																																																
Bit Press.	2633	Check #1		Check #2																																													
Mud System	WaterBasedMud																																																
Depth MD / TVD (m)	320	/	320	/																																													
Time Sample Taken	07:40																																																
Flowline Temp (C)	24																																																
Funnel Viscosity (sec/L)	40																																																
Mud Density (kg/m3)	1060																																																
Hyd. Grad. (kPa/m)	10.40																																																
ECD (kg/m3)	1065																																																
pH	<input checked="" type="checkbox"/> STRIP	<input type="checkbox"/> METER	8.0																																														
Plastic Viscosity (mPa)	5.5																																																
Yield Point (Pa)	3.4																																																
Gel Strength (Pa) 10s/10min	2.0	/	2.5	/																																													
N Low / K low	0.24	/	2.02	/																																													
N Med / K med	0.53	/	0.47	/																																													
Filtrate (cm3/30min@700kPa)	8.5																																																
Filter Cake (mm)	1.0																																																
HTHP FILTRATE @ C (cm3/30 min @ 3500 kPa)		@		@																																													
Filter Cake (mm)																																																	
Sand Content (%)	.25																																																
Total Solids (%)	3.75																																																
Conn. Solids (%)																																																	
Oil Content (%)																																																	
M.B.T. (kg/m3)	57																																																
HGS (kg/m3) / %	0.00	/	0.0	/																																													
LGS (kg/m3) / %	97.52	/	3.8	/																																													
Drilled solids (kg/m3)	40.52																																																
Bentonite (kg/m3)																																																	
Avg. Density (kg/m3)	2600																																																
Alkalinity (PP/MF)	0.0	/	0.1	/																																													
Hydroxyl (mg/L)																																																	
Carbonate (mg/L)	24																																																
Bicarbonate (mg/L)	85																																																
Total Hardness (mg/L)	80																																																
Chlorides (mg/L)	1000																																																
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 <input type="checkbox"/> HAC <input type="checkbox"/>																																																	
Polymer (kg/m3)	0.50																																																
<p>Summary of Activity - Comments, Observations, Pilot Tests</p> <p>Remarks; Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.</p> <p>Mud System: WaterBasedMud</p> <p>Feb 6 2010: Spud surface and drilled ahead to 236m at midnight. Some minor losses reported, slugged hole w/Kwik Seal, Cellophane, and Sawdust. Mixed sawdust consistently to reduce. No problems reported on connections.</p> <p>Feb 7 2010: Continued drilling ahead from 236m to 320m at mudcheck. No foaming issues reported. Mixed 1 sx TKPP and 1 pail DD to reduce stickiness at shakers. MBT increased to 57 kg/m3.</p> <p>Recommended Treatment - Suggestions</p> <p>WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/S/LABELS FOR MORE INFORMATION.</p> <p>Daylights:</p> <p>- @ 350m. isolate to one suction compartment. Mix Millizan and Gel at 1:10 ratio over even circs to increase FV to 60-70 sec/L prior to wiper trip.</p> <p>After wiper trip, increase FV to 80-100 sec/L (depending on how wiper trip goes) with above ratio, ensuring we add water to system at 15-20 L/min to ensure proper hydration of system.</p> <p>For cement: isolate to one suction compartment, drop fluid to just above suction. Mix 2 sxs Desco CF and water at 40L/min (about 2 inch stream) over 1 full circ to reduce FV to 45-50 sec/L.</p> <p>Thanks, Shannon</p> <p>Materials Used Since Last Check</p> <table border="1"> <thead> <tr> <th>Products</th> <th>Products</th> <th>Products</th> <th>Products</th> </tr> </thead> <tbody> <tr> <td>Cellophane</td> <td>1</td> <td>Hyperdrill AF247RD</td> <td>3</td> </tr> <tr> <td>Kwik Seal Medium</td> <td>3</td> <td>Sawdust</td> <td>90</td> </tr> <tr> <td></td> <td></td> <td>Kelzan XCD Polymer</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>Shure Shale</td> <td>10</td> </tr> </tbody> </table> <p>Cost Information</p> <table border="1"> <thead> <tr> <th>Cost Since Last Check</th> <th>Total Cost to Date</th> </tr> </thead> <tbody> <tr> <td>\$6,989.14</td> <td>\$7,939.14</td> </tr> </tbody> </table> <p>Marquis Alliance Representatives</p> <table border="1"> <thead> <tr> <th>T.S.R</th> <th>Shannon Williams</th> <th>Trucking Company</th> </tr> </thead> <tbody> <tr> <td>Cell</td> <td>780-691-2295</td> <td>Warehouse</td> </tr> <tr> <td>Pager/Home #</td> <td>780-895-2688</td> <td>Phone #</td> </tr> </tbody> </table>																	Products	Products	Products	Products	Cellophane	1	Hyperdrill AF247RD	3	Kwik Seal Medium	3	Sawdust	90			Kelzan XCD Polymer	6			Shure Shale	10	Cost Since Last Check	Total Cost to Date	\$6,989.14	\$7,939.14	T.S.R	Shannon Williams	Trucking Company	Cell	780-691-2295	Warehouse	Pager/Home #	780-895-2688	Phone #
Products	Products	Products	Products																																														
Cellophane	1	Hyperdrill AF247RD	3																																														
Kwik Seal Medium	3	Sawdust	90																																														
		Kelzan XCD Polymer	6																																														
		Shure Shale	10																																														
Cost Since Last Check	Total Cost to Date																																																
\$6,989.14	\$7,939.14																																																
T.S.R	Shannon Williams	Trucking Company																																															
Cell	780-691-2295	Warehouse																																															
Pager/Home #	780-895-2688	Phone #																																															



Drilling Fluid Report

Current Activity		WOC at 379m	
Date	February 8, 2010	Check Number	4
Spud Date	February 6, 2010	Days From Spud	2
Location	F-77-60/10-11-15		
Contractor	Precision 245		
Report for	Erick Bigras		
Report for			

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	Josh Blinston (ph. 4038603569)
Report For	Hale Yardley

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Bit Record		Casings				Drilling Assembly								Volumes (m3)		Hole Enlarge %					
Bit No.	1RR	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	1.6	Circulation Time			
Bit Size(mm)	200	Surface	206.0	219.0	379.0	D.C.	65.0	158.0	68.0					N/A		95.2	TUR	8.8	BTM's Up	7	
Type	HE04SMRSV					H.W.D.P.	65.0	102.0	150.0					N/A		51.9	TUR	8.0	Total	14	
Nozzles (mm)						D.P.	85.0	102.0	161.0					N/A		51.9	TUR	Tot. Cr. Vol	18.4	Water Added	
N1:	10.3	N2:	10.3															Open Hole	0.0	Mud Lost	15
N3:	10.3	N4:	10.3																		
N5:	10.3	N6:	10.3																		
N7:		N8:																			
7FA	500																				
Depth In	379																				
Depth Out																					
Hrs. on Bit	6																				
Drill Rate	3		1																		
R.P.M.			HHP		30.68																
WOB (daN)			% Pressure at Bit		15.15																
Nozzle Vel	43.5																				
Bit Press.	1051		Check #1		Check #2																
Mud System	WaterBasedMud																				
Depth MD / TVD (m)	379	/	379		/																
Time Sample Taken	15:00																				
Flowline Temp (C)	16																				
Formal Viscosity (sec/L)	28																				
Mud Density (kg/m3)	1000																				
Hyd. Grad. (kPa/m)	9.81																				
ECD (kg/m3)	1003																				
pH	<input checked="" type="checkbox"/> STRIP	<input type="checkbox"/> METER	8.0																		
Plastic Viscosity (mPa)	2.0																				
Yield Point (Pa)	0.5																				
Gel Strength (Pa) 10s/10min	0.5	/			/																
N Low / K low	0.28	/	0.32		/																
N Med / K med	0.74	/	0.03		/																
Filterate (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)																					
Avg. Density (kg/m3)																					
Alkalinity (PFMHF)	0.0	/	0.1		/																
Hydroxyl (mg/L)																					
Carbonate (mg/L)	36																				
Bicarbonate (mg/L)	49																				
Total Hardness (mg/L)	60																				
Chlorides (mg/L)	160																				
Potassium (mg/L)																					
0.2 N HCl / 2.0 N HCl (cc's)		/			/																
Silicate % w/w / Silicate %		/			/																
Clear Fluid Density (kg/m3)	1000																				
SiO2:K2O Ratio																					
Soluble Sulfides <input type="checkbox"/> HAC <input type="checkbox"/>																					
Polymer (kg/m3)																					

Summary of Activity - Comments, Observations, Pilot Tests

Remarks; Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.

Feb 08 2010 : RIH w/219 mm surface csg. Conditioned mud for cement w/Desco CF II and fresh water. Cemented with good returns. WOC. Cut csg. Welded on bowl and nipples up. Pressure tested BOP's.

Recommended Treatment - Suggestions

WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/S/LABELS FOR MORE INFORMATION.

Drill Out Report :

- 1) Isolate to #2 suction compartment. Fill tank with 10m3 of water.
 - 2) Drill out cement, float and shoe with water. We will leave Calcium levels high as we are floc water drilling until 1100-1200m.
 - 3) Mix Citric Acid at 10 min/sx to reduce pH to 9-10.
 - 4) Fill one injection tank w/4m3. Mix in 20 visc cups of Alkapam 1103RD and allow to hydrate 1 hr before use.
 - 5) Bring fluid over from #2 400bbl and blend into active system until desired PVT is attained.
 - 6) Start injecting Alkapam 1103RD at 10-15 L/min to maintain clear water.
 - 7) Fill #1 suction 3/4 full and build a 100 + visc slurry with gel and 1/4 sx of Caustic to be used for sweeps.
- Severe to total losses are expected at +-550 m. When encountered, isolate to # 1 suction compartment, feeding from 400bbl tanks as needed to maintain volume until circulation is regained.
- Drill ahead with floc water to 750m.

Thanks,

Materials Used Since Last Check

Products	Quantity	Products	Quantity	Products	Quantity
Bentonite (Gel)	25	Detergent L (20L)	1	Hyperdrill AF247RD	2
Kelzan XCD Polymer	3	Sawdust	25	TKPP	1

Cost Information

Cost Since Last Check	\$3,228.51	Total Cost to Date	\$11,167.65
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Marquis Alliance Representatives

T.S.R	Shannon Williams	Trucking Company
Cell	780-691-2295	Warehouse
Pager/Home #	780-895-2688	Phone #



Drilling Fluid Report

Current Activity		Drilling Ahead 200mm Intermediate Hole - Floc	
Date	February 10, 2010	Check Number	5
Spud Date	February 6, 2010	Days From Spud	4
Location	F-77-60/10-11-15		
Contractor	Precision 245		
Report for	Erick Bigras		
Report for			

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	Hale Yardley
Report For	Hale Yardley

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.	1RR	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Open Hole		Liner		Casing		Pipe Cap	3.6	Circulation Time	
Bit Size(mm)	200	Surface	206.0	219.0	379.0	D.C.	65.0	158.0	68.0	92.5	TUR		N/A		N/A	Ann Vol.	17.0	BTM's Up	16
Type	HE04SMRSV					H.W.D.P.	65.0	102.0	150.0	47.0	TUR		N/A		N/A	Tank	46.0	Total	61
Nozzles (mm)						D.P.	85.0	102.0	515.0	47.0	TUR		N/A	43.4	TUR	Tot. Cir. Vol	66.6	Water Added	
N1:	10.3	N2:	10.3													Open Hole	11.1	Mud Lost	15
N3:	10.3	N4:	10.3																
N5:	10.3	N6:	10.3																
N7:		N8:																	
TFA	500																		
Depth In	379																		
Depth Out																			
Hrs. on Bit	20.0																		
Drill Rate																			
R.P.M.	93				HHP	18.76													
WOB (daN)					% Pressure at Bit	19.75													
Nozzle Vel	36.4																		
Bit Press.	768				Check #1		Check #2												
Mud System	WaterBasedMud																		
Depth MD / TVD (m)	733 / 733																		
Time Sample Taken	08:30																		
Flowline Temp (C)	21																		
Funnel Viscosity (sec/L)	32																		
Mud Density (kg/m3)	1045																		
Hyd. Grad. (kPa/m)	10.25																		
ECD (kg/m3)	1051																		
pH	8.0																		
Plastic Viscosity (mPa)	2.0																		
Yield Point (Pa)	1.4																		
Gel Strength (Pa) 10s/10min	0.5 / 0.5																		
N Low / K low	0.50 / 0.22																		
N Med / K med	0.49 / 0.24																		
Filtrate (cm3/30min@700kPa)																			
Filter Cake (mm)																			
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)																			
Filter Cake (mm)																			
Sand Content (%)																			
Total Solids (%)	2.8125																		
Carr. Solids (%)																			
Oil Content (%)																			
M.B.T. (kg/m3)	20																		
HGS (kg/m3) / %	0.00 / 0.0																		
LGS (kg/m3) / %	73.14 / 2.8																		
Drilled solids (kg/m3)	53.14																		
Bentonite (kg/m3)																			
Avg. Density (kg/m3)	2600																		
Alkalinity (PF/AF)	0.0 / 0.8																		
Hydroxyl (mg/L)																			
Carbonate (mg/L)	0																		
Bicarbonate (mg/L)	952																		
Total Hardness (mg/L)	350																		
Chlorides (mg/L)	750																		
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 <input type="checkbox"/> HAC <input type="checkbox"/>																			
Polymer (kg/m3)																			
Summary of Activity - Comments, Observations, Pilot Tests																			
Remarks; Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.																			
Feb 9 2010: Prepare to RIH. P/U tools. Tagged cement at 363m. Drilled cement to 379m. Drilled out shoe and 200mm intermediate hole with floc water from 379m to 579m at midnight.																			
Feb 10 2010: Continue drilling ahead from 579m to 733m with seepage losses. Mixed sawdust as needed. Weight climbing, calcium low. Recommend increased Cal Nitrate additions and Alka Pam 1103 additions to strip solids out of system.																			
Recommended Treatment - Suggestions																			
WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/SILABELS FOR MORE INFORMATION.																			
Drilling Ahead with Floc Water																			
1) Fill one centrifuge injection tank w/4m3. Mix in 16-20 visc cups of Alkapam 1103RD and allow to hydrate 1 hr before use. Inject at 10-12 L/min to maintain clear water. Adjust as required.																			
2) Mix 2-3 sxs Cal Nitrate per 100m new hole drilled. Monitor Calcium concentration with regular mudchecks. If fluid is muddy, mix 3 extra sxs of Cal Nitrate over 1 circ and increase injection rate of flocculant until overflow is coming back clear.																			
3) PVT - Bring fluid over from #2 400bbl and blend into active system as required.																			
4) pH at 8-9 with Caustic Soda as needed via chem barrel.																			
5) Fill pill tank 3/4 full with water from #2 400bbl, add 4-5 visc cups of Caustic and build a 100 + visc slurry with gel to be used for sweeps.																			
6) Trickle Kelzan XDC into system very slowly to maintain a 30-32 sec/L visc (aid in hole cleaning).																			
7) Mix 1-2 sxs Sawdust per 10m new hole drilled.																			
Thanks, Shannon																			
Materials Used Since Last Check																			
Products					Products					Products									
Bentonite (Gel)					Cellophane					Citric Acid									
15					6					7									
Desco					Envirofloc					Sawdust									
2					10					33									
Cost Information																			
Cost Since Last Check					\$3,222.11					Total Cost to Date					\$14,389.76				
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	Hale Yardley
Report For	Hale Yardley

Current Activity		Drilling Ahead 200mm Intermediate Hole - Poly Mud	
Date	February 11, 2010	Check Number	6
Spud Date	February 6, 2010	Days From Spud	5
Location		F-77-60/10-11-15	
Contractor		Precision 245	
Report for		Erick Bigras	
Report for			

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 %	5			
Bit No.	1	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Open Hole		Liner		Casing		Pipe Cap	6.2	Circulation Time			
Bit Size(mm)	200	Surface	206.0	219.0	379.0	D.C.	65.0	158.0	68.0	95.8	TUR		N/A		N/A	Ann Vol.	28.5	BTM's Up	24		
Type	DSX426m					H.W.D.P.	65.0	102.0	150.0	48.7	LAM		N/A		N/A	Tank	41.8	Total	64		
Nozzles (mm)						D.P.	85.0	102.0	972.0	48.7	LAM		N/A	47.2	LAM	Tot. Cir. Vol	76.6	Water Added			
N1:	12	N2:	12																		
N3:	12	N4:	12																		
N5:	12	N6:	12																		
N7:		N8:																			
TFA	679			V.G. Readings				Deviation Record				Solids Control Equipment				Pump Data					
Test	#1	#2	Depth	Inc	Dir	Type	Name	Screen Size	Screen Size	Screen Size	Screen Size	Model	F-800	F-800							
600	19					Shakers	Swaco	200	200	200	200	Liner Dia	152	152							
300	14											Stroke	229	229							
Depth In	379			Type	Name	U.F. (kg/m3)	O.F. (kg/m3)	U.F. Rate (L/min)	Hours Run	Removal Rate (kg/hr)	Output(m3/Stroke)	0.0125	0.0125								
Depth Out				Centrifuge	United	1830	1010	12	20	1318	S.P.M.	100									
Hrs. on Bit.	52.0										Output(m3/min)	1.188									
Drill Rate											Total Output (m3/min)	1.188									
R.P.M.	93			HHP	13.01						Press. (kPa)	3889									
WOB (daN)	5			% Pressure at Bit	12.60																
Nozzle Vel	29.2			Summary of Activity - Comments, Observations, Pilot Tests																	
Bit Press.	490			Check #1	Check #2	Remarks, Hole conditions tripping & drilling, Cuttings description, Torque & drag, Reaming, Bridges, etc.															
Mud System	WaterBasedMud			Feb 10 2010 : Continue drilling ahead from 579m to 947m with seepage losses. Mixed sawdust as required, slugging hole to help reduce and clean hole.																	
Depth MD / TVD (m)	1190 / 1190			Feb 11 2010 : Continued drilling ahead 200mm hole to 1190m while mudding up. Currently conditioning to increase FV to 37 sec/L prior to wiper trip. Connections are mostly good, working sticky connections when required.																	
Time Sample Taken	16:16																				
Flowline Temp (C)	24																				
Funnel Viscosity (sec/L)	33																				
Mud Density (kg/m3)	1040																				
Hyd. Grad. (kPa/m)	10.20																				
ECD (kg/m3)	1055			Recommended Treatment - Suggestions																	
pH	9.0			WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/SILABELS FOR MORE INFORMATION.																	
Plastic Viscosity (mPa)	5.5			Mud Up Report: The Depth for mud up will be determined by Hale (1100-1200m)																	
Yield Point (Pa)	3.8			- Mix 6 pails of Shure Shale at 30 min/pail through grating at suction.																	
Gel Strength (Pa) 10s/10min	2.0 / 2.5			- Mix MF-Vis, 1 round per circ to increase funnel visc to 40-45 sec/L.																	
N Low / K low	0.27 / 1.92			- Mix Drispac R, Stardril, and Lignite at 1:2:3 ratio to lower WL to 6-8cc's/30min.																	
N Med / K med	0.49 / 0.62			- Maintain pH at 9.0-9.5 w/Caustic Soda mixed with H2O via chem barrel.																	
Filtrate (cm3/30min@700kPa)	12.5			- Mix 1 sx of Hyperdrill 247 through suction grating over 3-4 hrs.																	
Filter Cake (mm)	1.0			Maintain for Drilling:																	
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@			1. Viscosity @40 sec/l with MF-Vis mixed evenly over 1 full circ. At 1300m, mix to increase FV to 46 sec/L using MF-Vis.																	
Filter Cake (mm)				2. Add 1 pail of Shure Shale per 75-100m new hole drilled from 1200m to TD.																	
Sand Content (%)	.25			3. Mix 2 sx Hyperdrill 247 per 12 hr shift through grating at suction while drilling ahead.																	
Total Solids (%)	2.5			4. Maintain pH @ 9-9.5 with caustic through chemical barrel with cold water, mix caustic into water and add to system as required.																	
Coar. Solids (%)				5. Fluid loss @ 6-8cc with Drispac R, Stardril, and lignite @ 1:2:3 ratio evenly over full circs.																	
Oil Content (%)				6. Continue injecting Alka Pam 1103 to maintain wt at 1040 kg/m3 until 50m from TD.																	
M.B.T. (kg/m3)	15			7. Density ALAP with proper solids control. Run water @ 5-10 litres a minute to keep system hydrated.																	
HGS (kg/m3) / %	0.00 / 0.0			8. 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 and maintain. This is a sour formation and we have to stay on top of this with 1/2 hr pH checks while circulating in this formation.																	
LGS (kg/m3) / %	65.01 / 2.5			Prior to TD : At 30m from TD, mix MF-Vis and Drispac R at 1:2 ratio, 2 rounds per circ. to increase FV to 55 sec/L. Allow wt to climb to 1060 kg/m3 by shutting down injection of AlkaPam 1103RD.																	
Drilled solids (kg/m3)	50.01			Shannon.																	
Bentonite (kg/m3)																					
Avg. Density (kg/m3)	2600																				
Alkalinity (PF/MF)	0.1 / 0.5			Materials Used Since Last Check																	
Hydroxyl (mg/L)				Products				Products				Products									
Carbonate (mg/L)	96			Alkapam A-1103D				Bentonite (Gel)				Caustic Soda									
Bicarbonate (mg/L)	415			Envirofloc				Kelzan XCD Polymer				Lime-Hydrated-20 KG									
Total Hardness (mg/L)	1000			Sawdust																	
Chlorides (mg/L)	1250																				
Potassium (mg/L)																					
0.2 N HCl / 2.0 N HCl (cc's)	/ /			Cost Information																	
Silicate% v/v / Silicate %	/ /			Cost Since Last Check				\$3,472.11				Total Cost to Date									
Clear Fluid Density (kg/m3)	1000											\$17,861.87									
SiO2:K2O Ratio				Marquis Alliance Representatives																	
Soluble Sulfides <input checked="" type="checkbox"/> HAC <input type="checkbox"/>	0.00			T.S.R				Shannon Williams				Trucking Company									
Polymer (kg/m3)	0.00			Cell				780-691-2295				Warehouse									
				Pager/home #				780-895-2688				Phone #									



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	Hale Yardley
Report For	Hale Yardley

Current Activity	Condition to log/run csg.		
Date	February 12, 2010	Check Number	7
Spud Date	February 6, 2010	Days From Spud	6
Location	F-77-60/10-11-15		
Contractor	Precision 245		
Report for	Erick Bigras		
Report for			

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Bit Record		Casings				Drilling Assembly								Volumes (m3)		Hole Enlarge %	5															
Bit No.	1	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Open Hole		Liner		Casing		Pipe Cap	7.5	Circulation Time														
Bit Size(mm)	200	Surface	206.0	219.0	379.0	D.C.	65.0	158.0	68.0	Ann Vel.	Flow	Ann Vel.	Flow	Ann Vel.	Flow	Ann Vol.	34.1	BTM's Up	36													
Type	DSX426m					H.W.D.P.	65.0	102.0	150.0	38.9	LAM		N/A		N/A	Tank	8.5	Total	53													
Nozzles (mm)						D.P.	85.0	102.0	1202.0	38.9	LAM		N/A	37.8	LAM	Tot. Cr. Vol	50.2	Water Added														
N1:	12	N2:	12																													
N3:	12	N4:	12																													
N5:	12	N6:	12																													
N7:		N8:																														
TFA	679			V.G. Readings				Deviation Record				Solids Control Equipment				Pump Data																
Depth In	379			Test	#1	#2	Depth	Inc	Dir	Type	Name	Screen Size	Screen Size	Screen Size	Screen Size	Model	F-800	F-800														
				600	57	70				Shakers	Swaco	200	200	200	200	Liner Dia	152	152														
				300	45	55										Stroke	229	229														
Depth Out				200	39	48				Type	Name	U.F. (kg/m3)	O.F. (kg/m3)	U.F. Rate (L/min)	Hours Run	Removal Rate (kg/hr)	Output(m3/stroke)	0.0125	0.0125													
				100	30	38				Centrifuge	United	1830	1010	12	20	1318	S.P.M.	80														
Hrs. on Bit.	52.0			6	13	18											Output(m3/min)	0.950														
Drill Rate				3	11	14											Total Output (m3/min)	0.950														
R.P.M.	93			HHP			6.66										Press. (kPa)	3889														
WOB (daN)	5			% Pressure at Bit			8.07																									
Nozzle Vel	23.3																															
Summary of Activity - Comments, Observations, Pilot Tests																																
Bit Press.	314			Check #1	Check #2	Remarks; Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.																										
Mud System	WaterBasedMud			WaterBasedMud			Feb 11 2010 : Continued drilling ahead 200mm hole to 1190m while mudding up. Drilled ahead to 1221m. Conditioned mud. POOH to shoe for wiper trip.																									
Depth MD / TVD (m)	1415 / 1415			1420 / 1420			Feb 12 2010 : RIH. No problems reported. Continued drilling ahead from 1205m to 1420m (TD). Conditioned mud to 65 visc prior to wiper trip.																									
Time Sample Taken	17:00			20:36																												
Flowline Temp (C)																																
Funnel Viscosity (sec/L)	62			67																												
Mud Density (kg/m3)	1040			1040																												
Hyd. Grad. (kPa/m)	10.20			10.20																												
ECD (kg/m3)	1099			1107			WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.																									
pH	10.0			9.5			Today : Mix MF - Vis at 25 min/sx to increase visc to 63-65sec/L. Trickle water in at 2-5 L/min to hydrate polymers. Monitor pH while circulating and ensure we have 10-10.5 with Caustic Soda.																									
Plastic Viscosity (mPa)	12.0			15.0																												
Yield Point (Pa)	15.8			19.2																												
Gel Strength (Pa) 10s/10min	7.0 / 8.5			8.5 / 10.0																												
N Low / K low	0.29 / 6.80			0.28 / 8.85																												
N Med / K med	0.34 / 5.37			0.35 / 6.29																												
Filtrate (cm3/30min@700kPa)	6.0			6.0																												
Filter Cake (mm)	0.5			0.5																												
HTHP FILTRATE @ C (cm3/30 min @ 3500 kPa)	@			@																												
Filter Cake (mm)																																
Sand Content (%)	.25			.25			On wiper trip to L/D pipe : circulate while adding fresh H2O at 15 L/min to help hydrate mud system. United (Les) will be stripping fluid back when we start to hoist to l/d pipe.																									
Total Solids (%)	2.5			2.5																												
Corr. Solids (%)							Cement : Isolate to one suction tank, mix 2-4 sxs Desco CF at 30 min/sx, dependent on circulation rate and run water at 20 L/min to reduce funnel visc to 35-40 sec/L.																									
Oil Content (%)																																
M.B.T. (kg/m3)	20			15			Strip fluid back to 1030 wt with centrifuge, time permitting.																									
HGS (kg/m3) / %	0.00 / 0.0			0.00 / 0.0			Thanks,																									
LGS (kg/m3) / %	65.01 / 2.5			65.01 / 2.5			Shannon																									
Drilled solids (g/m3)	45.01			50.01																												
Bentonite (kg/m3)																																
Avg. Density (kg/m3)	2600			2600																												
Alkalinity (PF/MF)	0.1 / 0.8			0.1 / 0.8																												
Materials Used Since Last Check																																
Products					Products					Products																						
Hydroxyl (mg/L)																																
Carbonate (mg/L)	168				168				Alkapam A-1103D				2				Barite				15				Bicarb of Soda				3			
Bicarbonate (mg/L)	610				586				Caustic Soda				3				Drispac R				3				Envirofloc				10			
Total Hardness (mg/L)	800				800				Kelzan XCD Polymer				1				Lignite				6				MF-VIS				8			
Chlorides (mg/L)	1700				1700				Sawdust				5				Shure Shale				8				Stardril				4			
Potassium (mg/L)																																
0.2 N HCl / 2.0 N HCl (cc)	/				/																											
Cost Information																																
Silicate% viv / Silicate %	/				/				Cost Since Last Check				\$9,480.31				Total Cost to Date				\$27,342.18											
Marquis Alliance Representatives																																
Clear Fluid Density (kg/m3)	1000				1000				T.S.R				Shannon Williams				Trucking Company															
SiO2-K2O Ratio									Cell				780-691-2295				Warehouse															
Soluble Sulfides <input type="checkbox"/> HAC									Pager/Home #				780-895-2688				Phone #															
Polymer (kg/m3)	0.50				0.50																											



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	Hale Yardley
Report For	Hale Yardley

Current Activity	Condition for cement		
Date	February 14, 2010	Check Number	9
Spud Date	February 6, 2010	Days From Spud	8
Location	F-77-60/10-11-15		
Contractor	Precision 245		
Report for	Erick Bigras		
Report for			

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Bit Record		Casings				Drilling Assembly								Volumes (m3)		Hole Enlarge %			
Bit No.	1	Type	ID	OD	Set at(m)	Type	ID	OD	Length	Open Hole		Liner		Casing		Pipe Cap	18.5	Circulation Time	
Bit Size(mm)	200	Surface	206.0	219.0	379.0	D.P.	129.0	139.7	1417.0	Ann Vel.	Flow	Ann Vel.	Flow	Ann Vel.	Flow	Ann Vol.	23.5	BTM's Up 23	
Type	DSX426m					Other					N/A		N/A		N/A	Tank	8.5	Total 50	
Nozzles (mm)						Other					N/A		N/A		N/A	Tot. Cr. Vol	50.5	Water Added	
N1:	12	N2:	12													Open Hole	32.6	Mud Lost	
N3:	12	N4:	12																
N5:	12	N6:	12																
N7:		N8:																	
TFA	679																		
Depth In	379																		
Depth Out																			
Hrs. on Bit	52.0																		
Drill Rate																			
R.P.M.	93		HHP		7.99														
WOB (daN)	5		% Pressure at Bit		9.11														
Nozzle Vel	24.8																		
Bit Press.	354		Check #1	Check #2		Remarks; Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.													
Mud System	WaterBasedMud		<p>Feb 13 2010 : Pumped weighted pill. POOH. Rigged up loggers. Logged well (STI/MDA/SPD/CBT/URG/MRT/DAC) to 1413m. 7m fill reported. Rigged out loggers. M/U and RIH w/tricone. Washed/reamed to btm (hard pack requiring up to 8 kdaN wt) for last 10m approx. Conditioned mud. POOH sideways.</p> <p>Feb 14 2010 : Continued POOH sideways. P/U and RIH w/139.7mm csg. Washed last jt to 1417m. Circ'd to condition for cement. Reduced FV to 50 sec/L. Cemented w/.....m3 returns to surface.</p>																
Depth MD / TVD (m)	1417 / 1417																		
Time Sample Taken	14:45																		
Flowline Temp (C)	27																		
Funnel Viscosity (sec/L)	50																		
Mud Density (kg/m3)	1040																		
Hyd. Grad. (kPa/m)	10.20																		
ECD (kg/m3)	1113																		
pH	9.5																		
Plastic Viscosity (mPa)	15.0																		
Yield Point (Pa)	10.1																		
Gel Strength (Pa) 10s/10min	6.5 / 8.0																		
N Low / K low	0.41 / 2.58																		
N Med / K med	0.50 / 1.57																		
Filtrate (cm3/30min@700kPa)	8.0																		
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)	10																		
HGS (kg/m3) / %	0.00 / 0.0																		
LGS (kg/m3) / %	65.01 / 2.5																		
Drilled solids (g/m3)	55.01																		
Bentonite (kg/m3)																			
Avg. Density (kg/m3)	2500																		
Alkalinity (PF/MF)	0.1 / 0.6																		
Recommended Treatment - Suggestions																			
WHMIS: PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/LABELS FOR MORE INFORMATION.																			
Cement : Isolate to one suction tank, mix 2-4 sxs Desco CF at 30 min/sx, dependent on circulation rate and run water at 20 L/min to reduce funnel visc to 40-50 sec/L.																			
Strip fluid back to 1030 wt with centrifuge, time permitting.																			
Wrap up all product and ready to move to next location....please straighten up pails and sxs in mudvan.																			
Thanks,																			
Shannon																			
Materials Used Since Last Check																			
Products					Products					Products									
Carbonate (mg/L)	156				Barite	25				Caustic Soda	1				Drispac R	4			
Bicarbonate (mg/L)	366				Lignite	12				MF-VIS	12				Stardril	8			
Total Hardness (mg/L)	600																		
Chlorides (mg/L)	1100																		
Potassium (mg/L)																			
0.2 N HCl / 2.0 N HCl (cc's)																			
Silicate% v/v / Silicate %																			
Cost Information																			
Clear Fluid Density (kg/m3)	1000				Cost Since Last Check	\$9,972.04				Total Cost to Date	\$37,314.22								
Marquis Alliance Representatives																			
SiO2:K2O Ratio					T.S.R	Shannon Williams				Trucking Company									
Soluble Sulfides <input type="checkbox"/> HAC <input type="checkbox"/>					Cell	780-691-2295				Warehouse									
Polymer (kg/m3)	0.25				Pager/Home #	780-895-2688				Phone #									



Drilling Fluid Report

Well Name	Para Cameron Hills
Operator	Paramount Resources
Report For	Hale Yardley
Report For	Hale Yardley

Current Activity	Rigging Out/Waiting on New location		
Date	February 15, 2010	Check Number	10
Spud Date	February 6, 2010	Days From Spud	9
Location	F-77-60/10-11-15		
Contractor	Precision 245		
Report for	Erick Bigras		
Report for			

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.	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	18.5	Circulation Time	
Bit Size(mm)	200	Surface	206.0	219.0	379.0	D.P.	129.0	139.7	1417.0	62.7	N/A	N/A	N/A	56.1	N/A	Ann Vol.	23.5	BTM's Up	23
Type	DSX426m					Other										Tank	8.5	Total	50
Nozzles (mm)						Other										Tot. Cr. Vol	50.5	Water Added	
N1:	12	N2:	12													Open Hole	32.6	Mud Lost	
N3:	12	N4:	12																
N5:	12	N6:	12																
N7:		N8:																	
TFA	679																		
Depth In	379																		
Depth Out																			
Hrs. on Bit	52.0																		
Drill Rate																			
R.P.M.	93	HHP			0.00														
WOB (daN)	5	% Pressure at Bit			0.00														
Nozzle Vel	0.0																		
Summary of Activity - Comments, Observations, Pilot Tests																			
Bit Press.	0	Check #1		Check #2		Remarks; Hole conditions tripping & drilling; Cuttings description; Torque & drag; Reaming; Bridges; etc.													
Mud System	WaterBasedMud																		
Depth MD / TVD (m)	1417	/	1417	/															
Time Sample Taken	10:37																		
Flowline Temp (C)																			
Funnel Viscosity (sec/L)																			
Mud Density (kg/m3)																			
Hyd. Grad. (kPa/m)																			
ECD (kg/m3)	0																		
pH	<input checked="" type="checkbox"/> STRIP <input type="checkbox"/> METER WHMIS. PROTECTIVE CLOTHING REQUIRED WHEN MIXING CHEMICALS. REFER TO MSDS/S/LABELS FOR MORE INFORMATION.																		
Plastic Viscosity (mPa)																			
Yield Point (Pa)																			
Gel Strength (Pa) 10s/10min	/		/			Cement : Isolate to one suction tank, mix 2-4 sxs Desco CF at 30 min/sx, dependent on circulation rate and run water at 20 L/min to reduce funnel visc to 40-50 sec/L.													
N Low / K low	/		/			Strip fluid back to 1030 wt with centrifuge, time permitting.													
N Med / K med	/		/			Wrap up all product and ready to move to next location....please straighten up pails and sxs in mudvan.													
Filterate (cm3/30min@700kPa)																			
Filter Cake (mm)																			
HTHP FILTRATE @ C (cm3/30 min. @ 3500 kPa)	@		@			Thanks,													
Filter Cake (mm)																			
Sand Content (%)																			
Total Solids (%)																			
Con. Solids (%)																			
Oil Content (%)																			
M.B.T. (kg/m3)																			
HGS (kg/m3) / %	/		/			Shannon													
LGS (kg/m3) / %	/		/																
Drilled solids (kg/m3)																			
Bentonite (kg/m3)																			
Avg. Density (kg/m3)																			
Alkalinity (PF/MF)	/		/			Materials Used Since Last Check													
Hydroxyl (mg/L)	Products				Products				Products										
Carbonate (mg/L)	Cellophane			8	Desco			10											
Bicarbonate (mg/L)																			
Total Hardness (mg/L)																			
Chlorides (mg/L)																			
Potassium (mg/L)																			
0.2 N HCl / 2.0 N HCl (cc's)	/		/			Cost Information													
Silicate % v/v / Silicate %	/		/			Cost Since Last Check			\$1,858.80	Total Cost to Date			\$39,173.02						
Clear Fluid Density (kg/m3)	1000																		
Marquis Alliance Representatives																			
SiO2-K2O Ratio	T.S.R			Shannon Williams			Trucking Company												
Soluble Sulfides	<input type="checkbox"/> HAC			Cell			780-691-2295			Warehouse									
Polymer (kg/m3)	Pager/Home #			780-895-2688			Phone #												





Daily Completion and Workover

PARA ET AL CAMERON F-77

Rig: Concord Well Service

Business Unit: NE BC & NWT COU

Report Date: 2/28/2010

Report #: 1.0

Total AFE Amount: 251,680.00

AFE Number: 10N020023

Daily Cost Total: 36,887

Cum Cost to Date: 36,887

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Well Configuration Type VERT	Casing Flange Elevation (m) 721.72	Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92
Last Casing String Production, 1,417.00mKB	PBTD (All) (mKB)	Casing Pressure (kPa) 0	Tubing Pressure (kPa) 0

Objective
Evaluate sulphur point dolomite as potential oil well .

Operations Summary
Move rig and equipment from M - 74 to F - 77 , rig in equipment . Run into hole bit and scrapper , displace to clean KCL ware . POOH tubing and bond log casing .

Operations Next Report Period
Swab down casing

Road Condition good	Weather Sunny	Start Date 2/28/2010	End Date 3/4/2010
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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
Rig Manager	Dwayne Palmer	403 357 - 6841
Consultant	Kim MacLeod	780 542 - 1897
P Engineer	Dick Heenan	403 818 - 4408

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 moving rig equipment on ice roads .
07:30	11:30	4.00	4.50	Move rig equipment to F - 77 , spot 2 - 60m3 tanks with bed truck . Un - load 36m3 into clean tank , spot rig mats and cat walk pipe racks with picker .
11:30	13:30	2.00	6.50	Rig up rig , pump , tank and boiler . Rig in vessel and flare stack , spot air trailer at front of location . Perform surface casing vent flow test , monitor for 15 minutes no bubbles .
13:30	15:00	1.50	8.00	Nipple down well head , remove tubing hanger . Stump test class III BOP stack , 2,000 kPa low and 21,000 kPa . Nipple up class III BOP stack , function and pressure test . Low pressure test 2,000 kPa , high pressure test 21,000 kPa .
15:00	16:00	1.00	9.00	Rig up work floor and tubing equipment , pressure test casing to 14,000 kPa . Monitor for 15 minutes good test . Make up bit and scrapper on cat walk .
16:00	18:30	2.50	11.50	Run into hole with bit and scrapper , 151 - joint's yellow band tubing . Tally and drift on way into hole , tag fill @ 1404mKB .
18:30	19:00	0.50	12.00	Rig up pump lines , pressure test lines to 21,000 kPa . good test . Rig in circulating head to tubing .
19:00	19:30	0.50	12.50	Crew change , held pre - job safety meeting on pumping procedures and high pressure lines .
19:30	22:00	2.50	15.00	Pull out of hole standing in derrick , lay down onto cat walk bit and scrapper .
22:00	00:00	2.00	17.00	Rig in pure energy e - line truck , held safety meeting with all personal on location . Run into hole with CBL bond log , tag plug back @ 1400.05mKB log from PBTD to surface , cement top @ surface . Good cement to surface ,
00:00	00:00	0.00	17.00	Finish logging to surface , rig down e - line truck . Stand - by on location . Swab down casing to 1150m

Report Fluids Summary				
Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Water	33.00	17.00	17.00	16.00

Perforations				
Date	Zone	Top (mKB)	Btm (mKB)	Current Status
3/1/2010	Sulphur Point, Original Hole	1,366.00	1,370.50	

Tubing Components	
Item Description	Top (mKB)

Casing Strings			
Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	K-55	35.716	379.00
Production	J-55	20.834	1,417.00



Daily Completion and Workover

PARA ET AL CAMERON F-77

Rig: Concord Well Service

Business Unit: NE BC & NWT COU

Report Date: 3/1/2010

Report #: 2.0

Total AFE Amount: 251,680.00

AFE Number: 10N020023

Daily Cost Total: 47,987

Cum Cost to Date: 84,874

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Well Configuration Type VERT	Casing Flange Elevation (m) 721.72	Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92
Last Casing String Production, 1,417.00mKB	PBTD (All) (mKB)	Casing Pressure (kPa) 0	Tubing Pressure (kPa) 0

Objective
Evaluate sulphur point dolomite as potential oil well .

Operations Summary
Perforate sulphur point , run into hole production string , land @ 1390m . Swab to evaluate .

Operations Next Report Period
Continue swabbing

Road Condition good	Weather Sunny	Start Date 2/28/2010	End Date 3/4/2010
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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
Rig Manager	Dwayne Palmer	403 357 - 6841
Consultant	Kim MacLeod	780 542 - 1897
P Engineer	Dick Heenan	403 818 - 4408

Time Log				
Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
00:01	01:30	1.49	1.49	Finish logging to surface , rig down e - line truck . Stand by on location .
01:30	06:00	4.50	5.99	Rig in casing swab equipment , swab to rig tank
06:00	07:00	1.00	6.99	Rig in pure energy e - line truck .
07:00	07:30	0.50	7.49	Crew change , held pre - job safety meeting on e - line procedures . Walk around rig equipment .
07:30	10:00	2.50	9.99	Finish rigging in Pure Energy e - line truck , held safety meeting with all personal on location . Run into hole with 101.6mm 4.5m gun , ERHSC 25 SDP , 17 SPM , 60 degree phasing . Total shots 79 , log into place @ 1366m - 1370.5mKB . Fire gun , pull out of hole . SICP @ 7 kPa . Rig down and release E - line truck . Continue monitoring pressure SICP @ 46 kPa after 1 - hour .
10:00	12:30	2.50	12.49	Bleed off casing to rig tank , confirmed sweet gas . Run into hole with re - entry guide , 1 - joint tubing , 1 - perforated pup joint , pump seating nipple , 4 - joint's tubing , tubing anchor (shear set @ 40,000 daN) , 142 - joint's , 2 - pup joint's , 1 - joint tubing , tubing hanger . Land tubing hanger , T.E @ 1390.15mKB , PSN @ 1380.52mKB , Tubing anchor @ 1343.75mKB
12:30	19:00	6.50	18.99	Rig in swab equipment swab to vessel , first swab tag fluid level 1100m . Recovered .84m3 , .72m3 water , .13m3 oil . Continue swabbing to vessel
19:00	19:30	0.50	19.49	Crew change , held pre - job safety meeting on swabbing procedures .
19:30	23:59	4.48	23.97	Continue pulling 1 - hour swabs , total swabs today - 13 , total fluided recovered 7.66m3 (.14m3 oil , 7.52m3 water)
23:59	23:59		23.97	Continue pulling 1 - hour swabs

Report Fluids Summary				
Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Water			17.00	16.00

Perforations				
Date	Zone	Top (mKB)	Btm (mKB)	Current Status
3/1/2010	Sulphur Point, Original Hole	1,366.00	1,370.50	

Tubing Components	
Item Description	Top (mKB)

Casing Strings			
Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	K-55	35.716	379.00
Production	J-55	20.834	1,417.00



Daily Completion and Workover

PARA ET AL CAMERON F-77
Rig: Concord Well Service

Business Unit: NE BC & NWT COU

Report Date: 3/2/2010

Report #: 3.0

Total AFE Amount: 251,680.00

AFE Number: 10N020023

Daily Cost Total: 27,016

Cum Cost to Date: 111,890

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Well Configuration Type VERT	Casing Flange Elevation (m) 721.72	Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92
Last Casing String Production, 1,417.00mKB	PBTD (All) (mKB)	Casing Pressure (kPa) 0	Tubing Pressure (kPa) 0

Objective

Evaluate sulphur point dolomite as potential oil well .

Operations Summary

Swab to 11:00 Am , kill well . Pull out of hole with tubing . Note : Road bands on today

Operations Next Report Period

Run into hole with tubing set Bridge plug

Road Condition good	Weather Sunny	Start Date 2/28/2010	End Date 3/4/2010
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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
Rig Manager	Dwayne Palmer	403 357 - 6841
Consultant	Kim MacLeod	780 542 - 1897
P Engineer	Dick Heenan	403 818 - 4408

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
00:01	07:00	6.99	6.99	Continue swabbing to vessel , total fluid recovered to date 10.49m3 (10.35m3 water , .14m3 oil) .
07:00	07:30	0.50	7.49	Crew change , held pre - job safety meeting on swabbing procedures .
07:30	11:30	4.00	11.49	Confirm with calgary , shut down swabbing . Total swabs pulled - 23 , total fluid recovered to date 11.84m3 (11.7m3 water , .14m3 oil) . Rig down swab , rig in pump lines .
11:30	13:00	1.50	12.99	Pressure test lines , rig in testers to casing . Foward circulate 18m3 , returns @ 15m3 . Shut down pump , monitor well 15 minutes confirm dead .
13:00	15:30	2.50	15.49	Pull out of hole laying down onto pipe racks , clean up work floor . Close and lock blind rams .
15:30	19:00	3.50	18.99	Clean up around work floor , drain pump lines . Tranfer fluid out of vessel , monitor pressure on well .
19:00	19:30	0.50	19.49	Crew change , held pre - job safety meeting on road bands . Walk around equipment .
19:30	01:00	5.50	24.99	Service rig equipment , wait on road bands .

Report Fluids Summary

Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Water	18.00	14.70	31.70	19.30

Perforations

Date	Zone	Top (mKB)	Btm (mKB)	Current Status
3/1/2010	Sulphur Point, Original Hole	1,366.00	1,370.50	

Tubing Components

Item Description	Top (mKB)

Casing Strings

Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	K-55	35.716	379.00
Production	J-55	20.834	1,417.00



Daily Completion and Workover

PARA ET AL CAMERON F-77
Rig: Concord Well Service

Business Unit: NE BC & NWT COU

Report Date: 3/3/2010

Report #: 4.0

Total AFE Amount: 251,680.00

AFE Number: 10N020023

Daily Cost Total: 30,842

Cum Cost to Date: 142,732

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Well Configuration Type VERT	Casing Flange Elevation (m) 721.72	Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92
Last Casing String Production, 1,417.00mKB	PBTD (All) (mKB)	Casing Pressure (kPa) 0	Tubing Pressure (kPa) 0

Objective
 Evaluate sulphur point dolomite as potential oil well .

Operations Summary
 Run into hole bridge plug on tubing , set bridge plug . Pull out of hole tubing , rig down rig and equipment .

Operations Next Report Period
 Rig in wireline , bail cement .

Road Condition good	Weather Cloudy	Start Date 2/28/2010	End Date 3/4/2010
Head Count	Personnel Total Hours (hrs)	Cum Personnel Total Hours (hrs)	

Daily Contacts

Title	Job Contact	Mobile
Rig Manager	Dwayne Palmer	403 357 - 6841
Consultant	Kim MacLeod	780 542 - 1897
P Engineer	Dick Heenan	403 818 - 4408

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
07:00	07:30	0.50	0.50	Held pre - job safety meeting on tripping into hole weatherford bridge plug . Walk around equipment .
07:30	08:30	1.00	1.50	Check pressure on well SICP 0 kPa , un - lock blind rams . Make up on cat walk weatherford bridge plug C / W collar locator .
08:30	10:30	2.00	3.50	Run into hole with weatherford bridge plug , click collar to confirm depth . Set weatherford bridge plug @ 1360.95mCE , pressured up to 7,000 kPa . Released off bridge plug , pick up 2m confirm off bridge plug
10:30	11:30	1.00	4.50	Pump inhibitor down tubing , circulate inhibitor . Shut in casing , pressure test bridge plug to 17,000 kPa . Monitor for 15 minutes , good test . Bleed off pressure , rig down pump lines .
11:30	14:00	2.50	7.00	Pull out of hole laying down onto pipe racks , lay down weatherford tool's onto cat walk .
14:00	16:00	2.00	9.00	Rig down tubing equipment and work floor , remove tarps . Nipple down class III BOP stack , pump 200L deisel into casing . Nipple up well head and pressure test rig seal 5,000 kPa , monitor for 15 minutes good test .
16:00	19:00	3.00	12.00	Rig down rig , pump , tank and boiler . Rig down vessel and flare stack , clean up around well head .

Report Fluids Summary

Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Water			31.70	19.30

Perforations

Date	Zone	Top (mKB)	Btm (mKB)	Current Status
3/1/2010	Sulphur Point, Original Hole	1,366.00	1,370.50	

Tubing Components

Item Description	Top (mKB)

Casing Strings

Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	K-55		35.716
Production	J-55		20.834
			1,417.00



Daily Completion and Workover

PARA ET AL CAMERON F-77
Rig: Concord Well Service

Business Unit: NE BC & NWT COU

Report Date: 3/4/2010

Report #: 5.0

Total AFE Amount: 251,680.00

AFE Number: 10N020023

Daily Cost Total: 38,600

Cum Cost to Date: 181,332

API/UWI 300/F-77/6010-11715/0	Surface Legal Location F-77/6010-11715/0	Field Name CAMERON HILLS	License No. 2065
Well Configuration Type VERT	Casing Flange Elevation (m) 721.72	Ground Elevation (m) 720.17	Original KB Elevation (m) 725.92
Last Casing String Production, 1,417.00mKB	PBTD (All) (mKB)	Casing Pressure (kPa)	Tubing Pressure (kPa)

Objective
Evaluate sulphur point dolomite as potential oil well .

Operations Summary
Rig up e - line truck and picker . Bail cement on top of bridge plug .

Operations Next Report Period
Hand - over to production

Road Condition good	Weather Cloudy	Start Date 2/28/2010	End Date 3/4/2010
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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
Rig Manager	Dwayne Palmer	403 357 - 6841
Consultant	Kim MacLeod	780 542 - 1897
P Enginer	Dick Heenan	403 818 - 4408

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
01:30	02:00	0.50	0.50	Held pre - job safety meeting on E - line procedures and picker procedures .
02:00	03:00	1.00	1.50	Rig in Pure Energy E - line truck and picker truck , remove well head . Install flange on tubing spool .
03:00	06:00	3.00	4.50	Run into hole with cement bailer 3 - runs , bail 30m cement on top of bridge plug @ 1360m . Rig down and release picker truck , e - line truck spot on L - 29 .

Report Fluids Summary

Fluid	To well (m³)	From well (m³)	Cum from Well (m³)	Left to recover (m³)
Water			31.70	19.30

Perforations

Date	Zone	Top (mKB)	Btm (mKB)	Current Status
3/1/2010	Sulphur Point, Original Hole	1,366.00	1,370.50	

Tubing Components

Item Description	Top (mKB)

Casing Strings

Casing Description	Grade	Wt (kg/m)	Set Depth (mKB)
Surface	K-55		35.716
Production	J-55		20.834
			1,417.00



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 28-Feb-2010	Report No: CWS-041-60-3-100	PO# Acct. No.
Operator Rep. Kim MacLeod	Well Name Location Paramount et al Cameron F-77	Prov: NT	MWO#: AFE#: Cameron	
Well Depth 1455	Csg Size 139.7	Lease Conditions Good	Lease Temperature -2	CC: Approver:
WellHead Connection 73 mm 21 MPa	GPS: H2S	Tubing Press Casing Press	n/a Dead	kPa kPa2 03

From	To	Time	Details Of Operation
07:00	12:00	5.00	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. Assist picker to load all suport equipment. Move rig and equipment to F-77 lease entrance. Chain up all equipment. Move onto location.
12:00	14:00	2.00	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. Complete vent flow bubble test. No bubbles.
14:00	15:00	1.00	Stump test BOPs to 2000 and 21000 kPa for 10 min ea. (Good)
15:00	16:00	1.00	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. Rig in and pressure test csg to 14,000 kPa for 15 min. (Good) Prepare to trip tbg.
16:00	18:30	2.50	Tally, assemble and RIH w/bit and csg scraper.
18:30	19:30	1.00	Rig in and reverse circulate well over to filtered KCL. Pump 17.0 m3 total.
19:30	21:30	2.00	POOH and stand 150 jts of 73mm tbg. Lay out csg scraper.
21:30	23:59	2.50	Rig in Pure Energy. Hold pre-job safety meeting. RIH w/CBL bond log. Tag PBTD @ 1400.5 mKB. Cement top @ surface. Rig out wireline unit.

Safety / BOP

Meeting Details:

Rig move. Spot and rig up.
 Pressure test and install BOPs.
 Tripping tbg. Circulate well to clean KCL.

- 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 **44** 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.: **14500** kPa
 Final Accum. Pressure: **11200** 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

Basic Well Servicing Costs

Description	Unit	Qty	Rate	Total
Rig Hours Operating	Hour	17	\$615.00	\$10,455.00
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:				\$14,081.50

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
	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	110		Trevor	Norton	12	
Driller-NWT #1	110		Doug	Palmer	12	
Derrickhand-NWT #			John	O'Reilly	12	
Derrickhand-NWT #			Michael	Trojan	12	
Floorhand-NWT #1			Christopher	Wilson	12	
Floorhand-NWT #1			Scott	Gregory	12	
Floorhand-NWT #1			Michael	Gabrijelcic	12	
Floorhand-NWT #1			Shaun	Beecher	12	
Boilerhand-NWT #1	110		David	Brandle	12	

Tubing Memo

Hauled in 171 jts of 73mm tbg.

Fluids Memo

Hauled in 36.0 m3 for the 400 bbl tank.

Rods Memo

Totals

Basic Well Cost Total : **\$14,081.50**
 Expendables Cost Total : **\$0.00**
 Third Party Cost Total : **\$756.00**
Subtotal: \$14,837.50
 OC Initial GST(865-985469 RT003) : **\$741.88**
Estimated Total: \$15,579.38

Rig Time: 17 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 01-Mar-2010	Report No: CWS-041-60-3-101	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 -12	CC: Approver:
WellHead Connection 73 mm 21 MPa	GPS: H2S	Tubing Press Casing Press	n/a kPa Dead kPa2	Charge Code 03

From	To	Time	Details Of Operation
00:00	01:30	1.50	Wireline continues to log well. Rig out wireline.
01:30	06:00	4.50	Rig in to csg swab well. Pull 17 swabs w/14.72 m3 returned to the rig tank.
06:00	09:00	3.00	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. Tag fluid level @ 1150.0 mKB. Perforate Lower Point Dolomite 1366.0 - 1370.5 mKB. Rig out wireline unit.
09:00	10:00	1.00	Read and record pressures. Csg pressure builds to 49 kPa.
10:00	12:30	2.50	Bleed of csg and prepare to trip tbg. Assemble and RIH w/73mm tbg.
12:30	19:00	6.50	Rig in and swab well to test vessel. Pull 10 swabs w/6.06 m3 recovered.
19:00	23:59	5.00	Crew change. Continue to swab sour to testers. Pull 1 swab ever hour w/1.6 m3 recovered.

Safety / BOP

Meeting Details:

Csg swab non perforated well.
 Wireline operations. Perforate well.
 Tripping tbg. Swab/flow well.

- 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 **45** 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: **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	220	\$1.05	\$231.00
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:				\$18,486.50

Expendables Costs

Description	Qty	Rate	Total
Sandline Inhibitor(lit)	5	\$15.00	\$75.00
Saver Rubber	4	\$16.00	\$64.00
73mm Swap Cup	4	\$35.00	\$140.00
140mm Csg Cup	9	\$20.00	\$180.00
Expendable Cost Total:			\$459.00

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	
Derrickhand-NWT #			John	O'Reilly	12	
Derrickhand-NWT #			Michael	Trojan	12	
Floorhand-NWT #1			Christopher	Wilson	12	
Floorhand-NWT #1			Scott	Gregory	12	
Floorhand-NWT #1			Michael	Gabrijelcic	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 8.55m
 Perforated pup jt 0.62m
 PSN 0.33m
 4 jts of 73mm tbg 36.77m
 Tbg anchor 0.91m
 142 jts of 73mm tbg 1323.47m
 73mm tbg pup jt 2.48m
 73mm tbg pup jt 3.12m
 1 jt of 73mm tbg 9.46m
 Tbg hanger 0.26m
 KB only 4.05m

Fluids Memo

Rods Memo

Totals

Basic Well Cost Total : **\$18,486.50**
 Expendables Cost Total : **\$459.00**
 Third Party Cost Total : **\$206.00**
Subtotal: \$19,151.50
 OC Initial GST(865-985469 RT003): **\$957.58**
 cpatience **Estimated Total: \$20,109.08**

Rig Time: 24 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 3	Client Paramount Resources Ltd.	Date 02-Mar-2010	Report No: CWS-041-60-3-102	PO# Acct. No.
Operator Rep. Kim MacLeod	Well Name Location Paramount et al Cameron F-77	Prov: NT	MWO#: AFE#: Cameron	CC: Approver:
Well Depth 1455	Csg Size 139.7	Lease Conditions Good	Lease Temperature 2	Charge Code 03
Wellhead Connection 73 mm 21 MPa	GPS: H2S	Tubing Press Casing Press	kPa kPa2	

From	To	Time	Details Of Operation
00:00	07:00	7.00	Continue to pull hourly swabs. Pull 7 swabs w/2.83 m3 recovered.
07:00	12:00	5.00	Continue to pull hourly swabs. Pull 4 swabs, w/1.76 m3 recovered.
12:00	13:00	1.00	Bleed off csg to testers, Rig in and forward circulate well to testers. Pump 18.0 m3 w/m3 recovered. Well dead.
13:00	16:00	3.00	POOH sideways w/73mm tbg.
16:00	19:00	3.00	Wait on wireline.
19:00	23:59	5.00	Crew change. Continue to wait on wireline unit. Wireline can't make it tomorrow. Stand tbg in the derrick, set-up for tbg run bridge plug.

SDFN.

Note: night shift is released.

Safety / BOP

Meeting Details:

Swab sour well to testers.
 Tripping tbg.
 Wait on wireline unit.

- 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 **51** 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: **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	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
Saver Rubber	2	\$16.00	\$32.00
73mm Swap Cup	4	\$35.00	\$140.00

Expendable Cost Total: \$172.00

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		Doug	Palmer	12	
Driller-NWT #1	110		Trevor	Norton	9	
Derrickhand-NWT #			John	O'Reilly	12	
Derrickhand-NWT #			Michael	Trojan	9	
Floorhand-NWT #1			Christopher	Wilson	12	
Floorhand-NWT #1			Scott	Gregory	12	
Floorhand-NWT #1			Michael	Gabrjelcic	9	
Floorhand-NWT #1			Shaun	Beecher	9	
Boilerhand-NWT #1	110		David	Brandle	12	

Tubing Memo

Fluids Memo

Rods Memo

Totals

Basic Well Cost Total : \$18,386.50
 Expendables Cost Total : \$172.00
 Third Party Cost Total : \$206.00
 Subtotal: \$18,764.50

OC Initial GST(865-985469 RT003) : \$938.23
 juttle Estimated Total: \$19,702.73

Rig Time: 24 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 4	Client Paramount Resources Ltd.	Date 03-Mar-2010	Report No: CWS-041-60-3-103	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 2	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	01:00	1.00	Wait on road conditions. Night shift cannot move out @ midnight, wait until 1 am then travel home.
01:00	07:00	6.00	Fire boiler.
07:00	19:00	12.00	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. Prepare to run tbg. RIH w/tbg set bridge plug. Space out. Rig in and fill tbg. Pressure up to 7000 kPa and set plug. Continue to pump and fill hole. Pump 7.2m3 w/1.9 m3 returned to the vessel. Shut in and pressure test bridge plug to 17,000 kPa for 15 min. (Good) Remove BOPs and install wellhead. Pump 200 liters of diesel down csg. Pressure test wellhead to 5000 kPa (Good) Rig out rig and equipment. Cool and drain boiler. Rig out class 3 system.
19:00	23:59	5.00	Wait on trucks. Prepare for rig move.

Safety / BOP

Meeting Details:

RIH w/brigde plug.
 Fill tbg and set plug.
 POOH sideways.

- 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 **44** 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	12	\$615.00	\$7,380.00
Rig O/T After 8 Hrs(NWT)	Hour	4	\$210.00	\$840.00
Rig Manager (110Km Min)	Km	110	\$1.05	\$115.50
Crew Vehicle (110 Km Min)	Km	2585	\$1.05	\$2,714.25
Travel Allowance	Hour	86	\$17.00	\$1,462.00
Extra Labour	Hour	16	\$65.00	\$1,040.00
Extra Labour O/T	Hour	12	\$85.00	\$1,020.00
Boilerhand Kms	Km	1175	\$1.05	\$1,233.75
Boiler (fuel out) 24 Hr BC	Day	1	\$1,600.00	\$1,600.00
Basic Well Costs Total:				\$17,405.50

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		Doug	Palmer	12	
Driller-NWT #1	1190	12	Trevor	Norton	1	
Driller-NWT #1	1285	13	Glen	Woodworth	12	
Derrickhand-NWT #		12	Michael	Trojan	1	
Derrickhand-NWT #			John	O'Reilly	12	
Floorhand-NWT #1			Christopher	Wilson	12	
Floorhand-NWT #1			Scott	Gregory	12	
Floorhand-NWT #1		12	Michael	Gabrijelcic	1	
Floorhand-NWT #1		12	Shaun	Beecher	1	
Floorhand-NWT #1		13	Landon	Graham	12	
Boilerhand-NWT #1	1175	12	David	Brandle		

Tubing Memo

171 jts of 73mm tbg hauled off location

Fluids Memo

Rods Memo

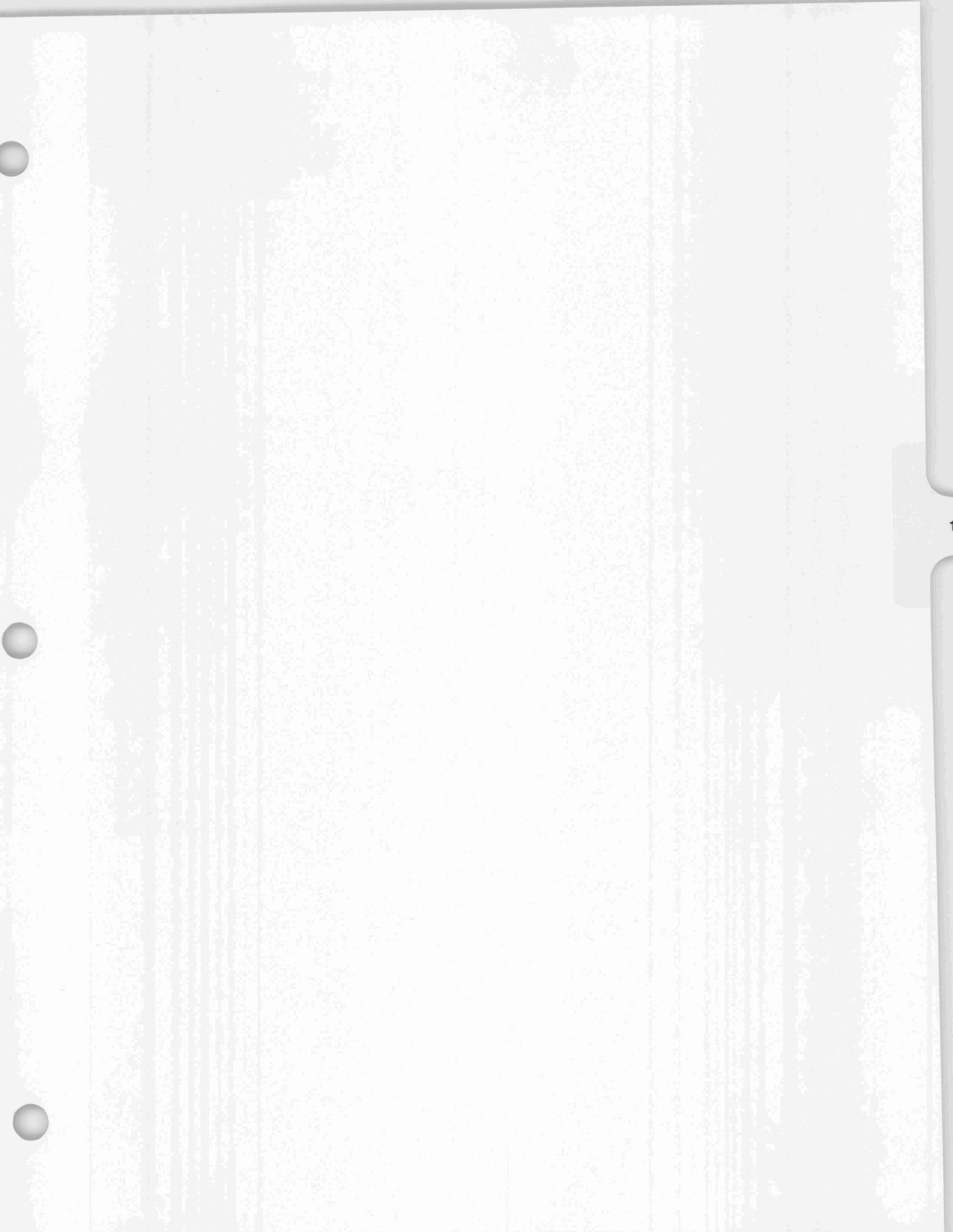
Totals

Basic Well Cost Total :	\$17,405.50
Expendables Cost Total :	\$0.00
Third Party Cost Total :	\$206.00
Subtotal:	\$17,611.50
OC Initial GST(865-985469 RT003):	\$880.58
cpatience Estimated Total:	\$18,492.08

Rig Time: 12 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 F-77

UWI: 60-10-117-15

FIELD: Cameron Hills

FORMATION: Lower Sulphur Point

Test/Prod Intervals: 1366.0 - 1370.5 mKB

TEST DATE (s): February 28 - March 3, 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 F-77
 Unique Well ID (UWI): 60-10-117-15
 Surface Location: EUB Well License No.:
 Formation: Lower Sulphur Point Drilling Leg: 01
 Field: Cameron Hills

Well Fluid Type at Test Date:

<input type="checkbox"/>	01 - Oil
<input type="checkbox"/>	02 - Gas
<input checked="" type="checkbox"/>	03 - Water
<input type="checkbox"/>	17 - Crude Bitumen

Test Data:

Service Company Name: Axel Production Services Ltd. Recorders Run: No
 Service Company Code: AXEL
 Test Final Date/Time: 3-Mar-10 11:00

Test/Prod. Interval Top mKB (Log): 1366.00 m	Previous Gas Prod.: 0.0000 10 ³ m ³
Test/Prod. Interval Base mKB (Log): 1370.50 m	Gas Flared: 0.0000 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: 7
 Salinity: 104000
 API (Oil Gravity):

Liquid Meter2

Liquid Type Indicator: Oil/Condensate
 Metering Device Type: Produced Volume
 Tank Measurement Indicator: Incremental

PRD File Name: F-77-Lower Sulphur Point-PRD-2010-03-03

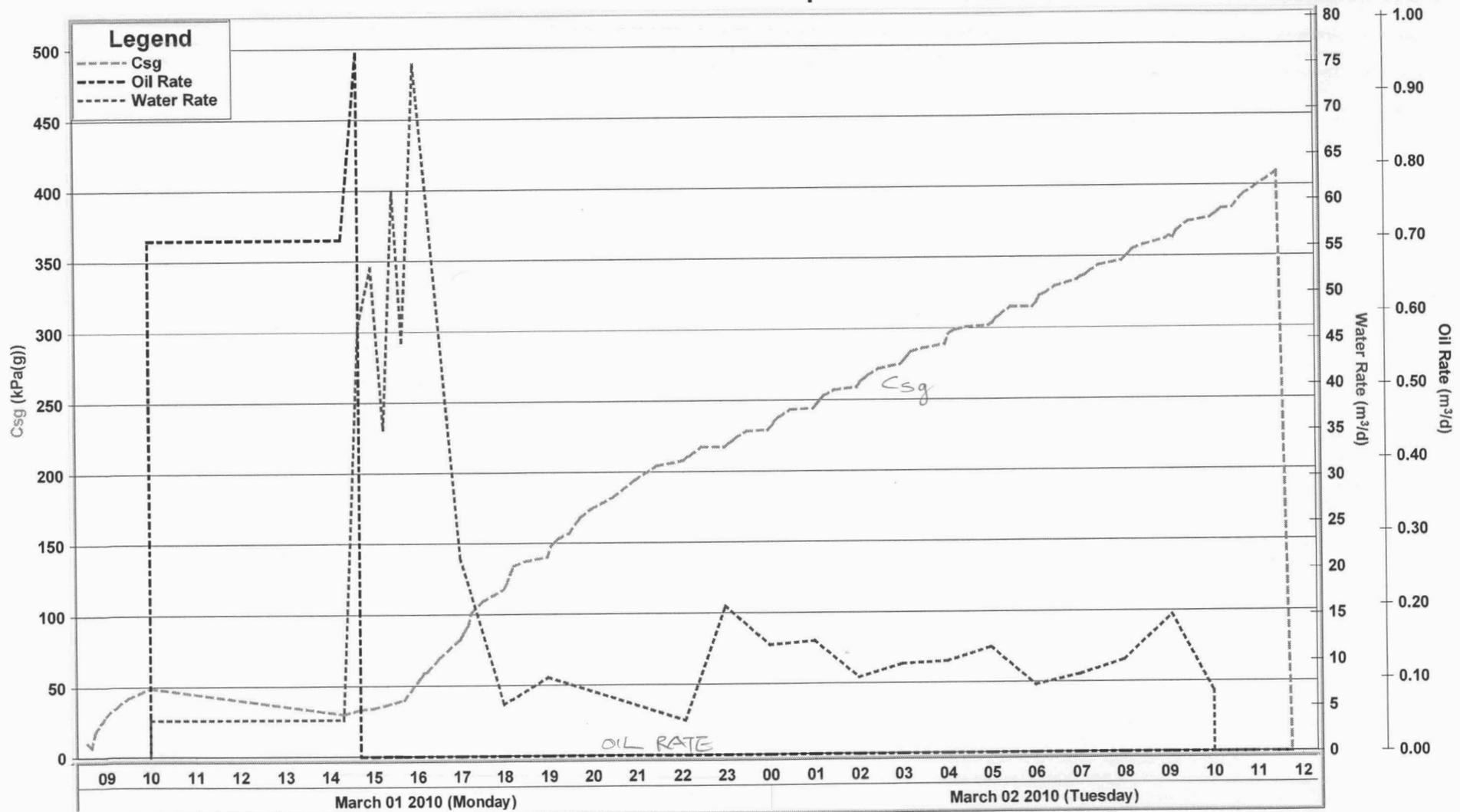
REMARKS

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: 2010/02/28 07:00
 End DateTime: 2010/03/03 11:00

Well / Lease Name: PARA et al CAMERON F-77
 Formation: LOWER SULPHUR POINT
 Pool:
 Job Number: 1020

Swab/Clean Up



Company: PARAMOUNT RESOURCES LTD.
 Unique Well ID: 60-10-117-15
 Start DateTime: 2010/02/28 07:00
 End DateTime: 2010/03/03 11:00

Well / Lease Name: PARA et al CAMERON F-77
 Formation: LOWER SULPHUR POINT
 Pool:
 Job Number: 1020

No	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	Water Gain	Cum Water	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	2010/02/28	07:00:00	0.00	ARRIVE ON LOCATION, HOLD SAFETY MEETING																							
2		08:00:00	1.00	SPOT & RIG IN EQUIPMENT TO REGULATION																							
3	2010/03/01	06:00:00	23.00	SWAB CASING TO 1150 m / 2.00 m ³ HOLE VOLUME LEFT																							
4		07:00:00	24.00	ATTEND SAFETY MEETING 11 PERSONAL ON LOCATION																							
5		08:16:00	25.27	LOWER SULPHUR POINT ZONE PERFORATED																							
6		08:35:00	25.58	RIG OUT E-LINE UNIT / MONITOR PRESSURES																							
7		08:35:00	25.58		10		0.00																				
8		08:40:00	25.67		7		0.00																				
9		08:45:00	25.75		18		0.00																				
10		09:00:00	26.00		30		0.00																				
11		09:15:00	26.25		36		0.00																				
12		09:30:00	26.50		42		0.00																				
13		10:00:00	27.00		49		0.00			0	0.0	0.0	0.000	0.0000			0.000		0.000	0.000	0.000	0.000					
14		10:00:00	27.00	BEGIN RUNNING IN HOLE WITH TUBING																							
15		12:30:00	29.50	TUBING ON DEPTH / RIG IN TO SWAB TUBING																							
16		14:19:00	31.32	13	30		4.32								1		1348	0.844	85.0	0.127	0.127	0.717	0.717				
17		14:42:00	31.70	13	33		4.70								2	1103	1348	0.765	98.0	0.015	0.142	0.750	1.467				
18		14:42:00	31.70	TRACE OF BURNABLE GAS AT SURFACE																							
19		15:00:00	32.00	9	34		5.00								3	1145	1380	0.665	100.0	0.000	0.142	0.665	2.132				
20		15:00:00	32.00	**NOTE** H ₂ S SAMPLE TAKEN WITH RAE. = 2500 ppm																							
21		15:16:00	32.27	3	36		5.27								4	1227	1380	0.395		0.000	0.142	0.395	2.527	6	106000		
22		15:30:00	32.50	11	38		5.50								5	1227	1380	0.598		0.000	0.142	0.598	3.125				
23		15:42:00	32.70	18	40		5.70								6	1227	1380	0.376		0.000	0.142	0.376	3.501	6	82000		
24		16:00:00	33.00	18	52		6.00								7	1267	1380	0.942		0.000	0.142	0.942	4.443				
25		16:05:00	33.08	17	55		6.08																				
26		16:10:00	33.17	16	59		6.17																				
27		16:15:00	33.25	10	60		6.25																				
28		16:30:00	33.50	-1	69		6.50																				
29		17:00:00	34.00	6	83		7.00								8	1267	1380	0.895		0.000	0.142	0.895	5.338	6	40000		
30		17:00:00	34.00	**NOTE** SAMPLES SHOW TRACE OF OIL																							
31		17:05:00	34.08	-1	88		7.08																				
32		17:10:00	34.17	-1	92		7.17																				
33		17:15:00	34.25	-1	101		7.25																				
34		17:30:00	34.50	-1	109		7.50																				



Company: PARAMOUNT RESOURCES LTD.
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 End DateTime: 2010/03/03 11:00

Well / Lease Name: PARA et al CAMERON F-77
 Formation: LOWER SULPHUR POINT
 Pool:
 Job Number: 1020

	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	Water Gain	Cum Water	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	2010/03/01	18:00:00	35.00	-1	117		8.00	0.00						9	1267	1380	0.234	100.0	0.000	0.142	0.234	5.572	6	42000			
36		18:05:00	35.08	-1	121		8.08																				
37		18:10:00	35.17	-1	128		8.17																				
38		18:15:00	35.25	-1	134		8.25																				
39		18:30:00	35.50	-1	137		8.50																				
40		19:00:00	36.00	-1	140		9.00							10	1267	1380	0.356		0.000	0.142	0.356	5.928	6	48000			
41		19:00:00	36.00	**NOTE** H ₂ S SAMPLE TAKEN WITH RAE. = 10000 ppm (1%)																							
42		19:05:00	36.08	-1	148		9.08																				
43		19:10:00	36.17	-1	150		9.17																				
44		19:15:00	36.25	-1	153		9.25																				
45		19:30:00	36.50	-1	157		9.50																				
46		19:45:00	36.75	-1	168		9.75																				
47		20:00:00	37.00	-1	174		10.00																				
48		20:30:00	37.50	-1	182		10.50																				
49		21:00:00	38.00	-1	194		11.00																				
50		21:30:00	38.50	-1	204		11.50																				
51		22:00:00	39.00	-1	207		12.00							11	1267	1380											
52		22:05:00	39.08	-1	208		12.08										0.480		0.000	0.142	0.480	6.408	6	100000			
53		22:10:00	39.17	-1	210		12.17																				
54		22:15:00	39.25	-1	211		12.25																				
55		22:30:00	39.50	-1	217		12.50																				
56		23:00:00	40.00	-1	217		13.00							12	1267	1380	0.616		0.000	0.142	0.616	7.024	6	104000			
57		23:05:00	40.08	-1	219		13.08																				
58		23:10:00	40.17	-1	221		13.17																				
59		23:15:00	40.25	-1	223		13.25																				
60		23:30:00	40.50	-1	228		13.50																				
61	2010/03/02	00:00:00	41.00	-1	229		14.00							13	1285	1380	0.496		0.000	0.142	0.496	7.520	6	104000			
62		00:05:00	41.08	-1	232		14.08																				
63		00:10:00	41.17	-1	236		14.17																				
64		00:15:00	41.25	-1	238		14.25																				
65		00:30:00	41.50	-1	243		14.50																				
66		01:00:00	42.00	-1	244		15.00							14	1209	1380	0.513		0.000	0.142	0.513	8.033	6	112000			
67		01:05:00	42.08	-1	247		15.08																				
68		01:10:00	42.17	-1	250		15.17																				

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 Formation: LOWER SULPHUR POINT
 Pool:
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				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	Water Gain	Cum Water	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	2010/03/02	01:15:00	42.25	-1	253		15.25	0.00										100.0														
70		01:30:00	42.50	-1	257		15.50																									
71		02:00:00	43.00	-1	259		16.00							15	1264	1380	0.347		0.000	0.142	0.347	8.380	6	113000								
72		02:05:00	43.08	-1	263		16.08																									
73		02:10:00	43.17	-1	265		16.17																									
74		02:15:00	43.25	-1	267		16.25																									
75		02:30:00	43.50	-1	272		16.50																									
76		03:00:00	44.00	-1	275		17.00							16	1244	1380	0.408		0.000	0.142	0.408	8.788	6	110000								
77		03:05:00	44.08	-1	278		17.08																									
78		03:10:00	44.17	-1	281		17.17																									
79		03:15:00	44.25	-1	284		17.25																									
80		03:30:00	44.50	-1	286		17.50																									
81		04:00:00	45.00	-1	289		18.00							17	1241	1380	0.418		0.000	0.142	0.418	9.206	6	110000								
82		04:05:00	45.08	-1	296		18.08																									
83		04:10:00	45.17	-1	298		18.17																									
84		04:15:00	45.25	-1	299		18.25																									
85		04:30:00	45.50	-1	301		18.50																									
86		05:00:00	46.00	-1	302		19.00							18	1220	1380	0.481		0.000	0.142	0.481	9.687	6	106000								
87		05:05:00	46.08	-1	304		19.08																									
88		05:10:00	46.17	-1	307		19.17																									
89		05:15:00	46.25	-1	309		19.25																									
90		05:30:00	46.50	-1	315		19.50																									
91		06:00:00	47.00	-1	315		20.00							19	1277	1380	0.308		0.000	0.142	0.308	9.995	6	104000								
92		06:05:00	47.08	-1	318		20.08																									
93		06:10:00	47.17	-1	323		20.17																									
94		06:15:00	47.25	-1	324		20.25																									
95		06:30:00	47.50	-1	329		20.50																									
96		07:00:00	48.00	-1	334		21.00							20	1290	1380	0.356		0.000	0.142	0.356	10.351	7	106000								
97		07:00:00	48.00	**NOTE** SAMPLES SHOW TRACE OF OIL																												
98		07:00:00	48.00	**NOTE** H'S SAMPLE TAKEN WITH RAE. = 50000 ppm (5%)																												
99		07:05:00	48.08	-1	336		21.08																									
100		07:10:00	48.17	-1	337		21.17																									
101		07:15:00	48.25	-1	339		21.25																									
102		07:30:00	48.50	-1	344		21.50																									

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 Formation: LOWER SULPHUR POINT
 Pool:
 Job Number: 1020

				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	Water Gain	Cum Water	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		
103	2010/03/02	08:00:00	49.00	-1	347		22.00	0.00																			
104		08:05:00	49.08	-1	349		22.08																				
105		08:10:00	49.17	-1	352		22.17																				
106		08:15:00	49.25	-1	355		22.25																				
107		08:30:00	49.50	-1	358		22.50																				
108		09:00:00	50.00	-1	362		23.00																				
109		09:05:00	50.08	-1	364		23.08							22	1155	1380	0.676		0.000	0.142	0.676	11.447	7	108000			
110		09:10:00	50.17	-1	363		23.17																				
111		09:15:00	50.25	-1	368		23.25																				
112		09:30:00	50.50	-1	374		23.50																				
113		10:00:00	51.00	-1	377		24.00							23	1296	1380	0.253		0.000	0.142	0.253	11.700	7	104000			
114		10:05:00	51.08	-1	379		24.00																				
115		10:10:00	51.17	-1	381		24.00																				
116		10:15:00	51.25	-1	383		24.00																				
117		10:30:00	51.50	-1	384		24.00																				
118		10:45:00	51.75	-1	393		24.00																				
119		11:00:00	52.00	-1	398		24.00																				
120		11:30:00	52.50	-1	409		24.00																				
121		11:45:00	52.75	0	0		24.00		0	0.0	0.0	0.000	0.0000				0.000		0.000	0.142	0.000	11.700					
122		11:45:00	52.75	RIG OUT SWAB EQUIPMENT/ RIG UP TO PULL TUBING																							
123		16:15:00	57.25	TUBING ON SURFACE / PREPARE FOR WIRELINE WORK / SECURE WELL																							
124	2010/03/03	07:00:00	72.00	ATTEND SAFETY MEETING 9 PERSONAL ON LOCATION																							
125		08:00:00	73.00	BEGIN RUNNING IN HOLE WITH BRIDGE PLUG																							
126		10:30:00	75.50	BRIDGE PLUG SET AT 1360 METERS																							
127		11:00:00	76.00	RIG OUT TEST EQUIPMENT																							
128		11:00:00	76.00	**NOTE** NO SAMPLES TAKEN																							