

N.E.B. COPY

**FINAL WELL REPORT**

**PARAMOUNT RESOURCES LTD.**

**PARA ET AL CAMERON M-49**

**Grid:  $60^{\circ} 10'$ ,  $117^{\circ} 30'$**

**DATE: July 11, 2003**

**COMPANY REPRESENTATIVE:**  
**Dave Block**

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## A. INTRODUCTION

Paramount Resources Ltd. (Paramount) drilled a 1505 meter exploratory well spudded on February 20, 2003 and finishing on March 5, 2003 to evaluate hydrocarbon potential. The primary target was the Sulphur Point formation at a depth of 1358 mKB. The secondary target was the Slave Point formation at 1300 mKB

The drilling contractor was Precision Drilling based out of Calgary, Alberta. Precision rig # 117 was used and is a land rig rated for 1800 m. The rig had a mud system capacity of 65 m<sup>3</sup> and was equipped with a boiler.

The well was drilled on Production License No PL-15 in which Paramount has an 88% working interest. Operating License No 1974 was issued to Paramount on December 6, 2002.

The exact co-ordinates of the well are as follows:

Latitude: 60<sup>0</sup> 08' 52.585"  
Longitude: 117<sup>0</sup> 39' 16.552"

Shadow Rathole Drilling Ltd. drilled a 610 mm conductor hole to 12.2 meters. From surface to 9.1 meters was good clay, 9.1 - 10.1 m was sand and water, and 10.1 – 12.2 m was good clay. A 406 mm conductor pipe was set and cemented at 12.2 meters.

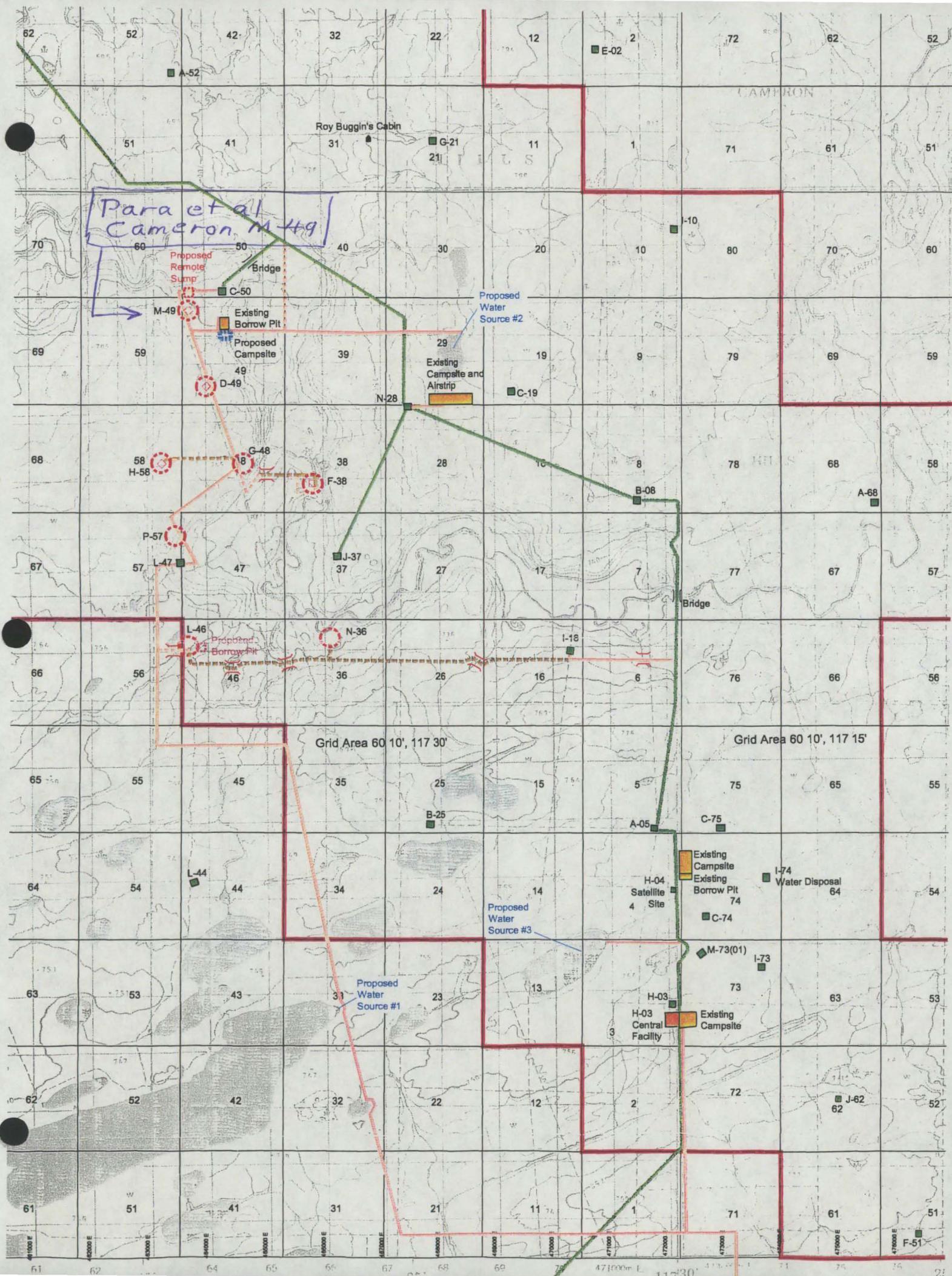
Precision #117 was moved onto the location and rigged up on February 19, 2003. The diverter was nipped up, the rig was rigged up, and the well was spudded on February 20, 2003 at 12:30 hours. A 311 mm surface hole was drilled to 426 mKB. There were no major lost circulation or mud ring problems but gravel and shale were encountered from 21 to 50 meters. A string of 219.1 mm, 35.7 kg/m, J-55, ST&C surface casing was run to 425 mKB. The casing was cemented with 32 t class 'G' cement plus 2% CaCl<sub>2</sub>. There were 4 m<sup>3</sup> of cement returned to surface while cementing. The plug was bumped and the float held OK. The plug was down at 19:27 hours on February 22, 2003.

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 10500 kPa high pressure.

The float collar and shoe were drilled out to 432 mKB on February 23, 2003. A leak off test was performed with the leak off gradient found to be 29.1 kPa/m. A 200 mm hole was drilled with a flocculated water system to approximately 612 mKB where circulation losses were encountered. The mud was flipped to a gel/chem system to control the losses to 720 mKB. The mud was flipped back to a flocculated water system to 1250 m. A gel/chem mud system was then used to drill to a total depth of 1505 mKB. A single core was cut in the Keg River from 1459 – 1470 mKB. Two DST's were run on the Muskeg and Slave Point formations. Computalog ran induction, density, and sonic logs from bottom to surface casing and a micro resistivity log from bottom to 1205 mKB.

139.7 mm, 20.83 kg/m, J-55, ST&C production casing was run and set at 1505 mKB. It was cemented with 23.5 t Fill-Lite 2-125 + 3% A-9 + 0.6% R-3 and 6.5 t 'G' cement + 0.1% R-3 + 0.4% FL-77. There were 4 m<sup>3</sup> cement returns and the plug was bumped with 3.5 MPa.

Precision #117 was rigged out and released at 16:00 hours on March 5, 2003.



## B. GENERAL DATA

1. Well Name: Para et al Cameron M-49

Authority to Drill a Well No: 1974

Exploration Agreement Number: PL-15

Location Unit: M

Section: 49

Grid Area: 60<sup>0</sup> 10' N, 117<sup>0</sup> 30' W

Classification: Delineation

2. Coordinates:

Latitude: 60<sup>0</sup> 08' 52.585"

Longitude: 117<sup>0</sup> 39' 16.552"

3. Unique Well Identifier: 300M496010117300

4. Operator: Paramount Resources Ltd.

5. Contractor: Precision Drilling

6. Drilling Unit: Precision Rig # 117, Land Rig

7. Position Keeping: N/A

8. Support Craft (Helicopter): N/A

9. Drilling Unit Performance: Good

10. Difficulties and Delays: Circulation losses from 612 – 720 mKB

11. Total Well Cost: \$792,000

12. Bottom Hole Co-ordinates: Same as surface

## C. SUMMARY OF DRILLING OPERATIONS

### 1. Elevations:

Ground: 704.43 m above sea level  
KB: 709.28 m above sea level  
KB to Casing Flange: 4.85 m

### 2. Total Depth:

FTD: 1505 mKB  
PBTD: 1499 mKB  
TVD: 1505 mKB

3. Date and Hour Spudded: February 20, 2003 at 12:30 hours

4. Date Drilling Completed: February 28, 2003

5. Date of Rig Release: March 5, 2003

6. Well status: Cased and Suspended

### 7. Hole Sizes and Depths:

Conductor Hole: 610 mm to 12.2 m  
Surface Hole: 311 mm to 426 mKB  
Main Hole: 200 mm to 1505 mKB

### 8. Casing and Cementing Record:

#### Conductor Hole:

Casing Size: 406 mm  
Wall Thickness: 7 mm  
Depth Set: 12.2 m  
Cut Height: At Surface  
Date Set: February 14, 2003  
Cement Volume: 40 sacks  
Cement Type: Portland Normal

#### Surface Hole:

Casing Make: Ipsco  
Casing Size: 219.1 mm  
Casing Weight: 35.7 kg/m  
Casing Grade: J-55  
Thread: ST&C  
Number of Joints: 31  
Depth Set: 425 mKB  
Cut Height: At surface  
Date Set: February 22, 2003  
Cement Volume: 32 Tonnes

Float Shoe Depth: 425 mKB  
 Float Collar Depth: 420 mKB  
 Cement Type: Class 'G'  
 Additives: 2% CaCl<sub>2</sub>  
 Cement Top: Surface  
 Casing Bowl Size: 279 mm x 21 Mpa  
 Casing Bowl Make: ABB Vetco

**Main Hole:**

Casing Size: 139 mm  
 Casing Weight: 20.83 kg/m  
 Casing Grade: J-55  
 Casing Make: Ipsco  
 Number of Joints: 117  
 Thread: ST&C  
 Depth Set: 1505 m KB  
 Cut Height: Surface  
 Date Set: March 5, 2003  
 Float Shoe Depth: 1505 mKB  
 Float Collar Depth: 1499 mKB  
 Cement Volume 1: 23.5 Tonnes  
 Cement Type 1: Fill-Lite 2-125  
 Additives 1: 3% A-9 & 0.6% R-3  
 Cement Volume 2: 6.5 Tonnes  
 Cement Type 2: Class 'G'  
 Additives 2: 0.1% R3 & 0.4% FL-77  
 Cement Top: To be determined by cement bond log.

9. Sidetracked Hole: N/A

10. Drilling Fluid:

Conductor Hole: Water  
 Properties: N/A

Surface Hole: Gel - Chemical  
 Properties: Viscosity: 38 - 80 sec/L  
 Weight: 1060 - 1080 kg/m<sup>3</sup>  
 PH: 9.0

Main (425 – 612 m): Floc water  
 Properties: Viscosity: 29 sec/L  
 Weight: 1000 kg/m<sup>3</sup>  
 PH: not reported

Main (612 – 720 m): Gel - Chemical

Properties:	Viscosity:	75 - 80 sec/L
	Weight:	1050 - 1080 kg/m <sup>3</sup>
	PH:	9.0 - 10.0
Main (720 – 1170 m):	Floc water	
Properties:	Viscosity:	28 sec/L
	Weight:	1000 kg/m <sup>3</sup>
	PH:	not reported
Main (1170 m – TD):	Gel-chem	
Properties:	Viscosity:	28 - 100 sec/L
	Weight:	1020 - 1080 kg/m <sup>3</sup>
	PH:	9.0 – 11.0
	Water loss:	9.0 – 14.0 cc
	Solids:	Not reported
	Gels:	Not reported
	Filtrate:	Not reported
	PV / YP:	Not reported

11. Fishing Operations: N/A
12. Well Kicks and Well Control Operations: N/A
13. Formation Leak Off Tests:
 

Depth:	431 m
Fluid Density:	1000 kg/m <sup>3</sup>
Applied Pressure:	8200 kPa
Hydrostatic Pressure:	4180 kPa
Mud Weight Equivalent:	2962 kg/m <sup>3</sup>
Casing setting depth:	426 mKB

The surface casing leak-off test was taken to a gradient of 29.06 kPa/m before leak off was detected.

#### 14. Time Distribution

Date	Hours	Activity
03/02/19	0.25	Safety meeting
	15.75	Move in / rig up
03/02/20	3.0	Move in / rig up
	0.25	Safety meeting
	0.25	Rig service
	6.25	Nipple up diverter
	0.5	Test diverter
	2.25	Drill rat hole
	1.25	Trip
	9.25	Drill
	0.5	Survey
	0.5	Circulate and condition mud
03/02/21	0.25	Rig service
	2.75	Survey
	18.5	Drill
	2.5	Trip
03/02/22	0.5	Safety meeting
	0.25	Rig service
	1.25	Drill
	4.5	Ream
	2.0	Circulate and condition mud
	0.25	Survey
	5.0	Trip
	4.25	Run casing
	2.0	Cement casing
	4.0	Nipple down diverter
03/02/23	0.5	Rig service
	0.75	Safety meeting
	1.5	Slip & cut drill line
	6.0	Nipple up BOP's
	6.25	Test BOP's
	1.75	Make up BHA
	1.25	Drill out casing shoe
	4.75	Drill
	0.75	Leak off test

	0.5	Survey
03/02/24	0.75	Rig service
	2.5	Circulate and condition mud
	19.75	Drill
	1.0	Survey
03/02/25	0.25	Safety meeting
	0.75	Rig service
	2.0	Survey
	21.0	Drill
03/02/26	0.5	Rig service
	9.0	Drill
	9.5	Trip
	5.0	Circulate and condition mud
03/02/27	0.25	Rig service
	1.5	Rig repair
	2.75	Ream
	7.25	Cut core
	9.25	Trip
	3.0	Circulate and condition mud
03/02/28	0.75	Rig service
	0.25	Safety meeting
	8.25	Drill
	0.5	Ream
	3.75	Circulate and condition mud
	1.5	Wait on orders
	6.25	Trip
	2.75	Recover core, lay out coring tools
03/03/01	0.25	Safety meeting
	0.5	Rig service
	8.5	Trip
	0.75	Ream
	3.5	Circulate and condition mud
	0.5	Survey
	10.0	Logging
03/03/02	0.75	Safety meeting
	0.25	Rig service
	8.25	Trip

	10.75	Run DST
	4.0	Circulate and condition mud
03/03/03	0.25	Safety meeting
	0.5	Rig service
	1.25	Circulate and condition mud
	8.5	Trip
	11.5	Run DST
	2.0	Wait on vacuum truck
03/03/04	0.5	Safety meeting
	0.5	Rig service
	2.0	Circulate and condition mud
	9.0	Trip
	1.0	Slip & cut drill line
	2.25	Run casing
	0.75	Run DST
	8.0	Thaw kelly hose
03/03/05	0.25	Safety meeting
	0.25	Rig service
	3.75	Run casing
	1.5	Circulate and condition mud
	2.5	Cement casing
	2.0	Nipple down BOP's
	5.75	Rig out

#### Time Break Down by Activity:

<u>Activity</u>	<u>Hours</u>
Move in / rig up:	18.75
Drill rat hole:	2.25
Drilling:	91.75
Reaming:	8.5
Surveying:	7.5
Circulate and condition mud:	29.0
Running casing:	10.25
Cementing casing:	4.5
Drill out casing shoe:	1.25
Rig service:	6.25
Rig repair:	1.5
Tripping:	68.0
Safety meetings:	4.25
Nipple up diverter:	6.25

Test diverter:	0.5
Nipple down diverter:	4.0
Nipple up BOP's:	6.0
Nipple down BOP's:	2.0
Pressure test BOP's:	6.25
Leak off tests:	0.75
Make up BHA:	1.75
Slip & cut drill line:	2.5
Logging:	10.0
Run DST:	23.0
Cut core:	7.75
Recover core:	2.75
Wait on orders:	1.5
Wait on vacuum truck:	2.0
Rig out:	5.75

15. Deviation Survey: See page 7 of the Geological Report in the Attachment Section
16. Abandonment Plugs: N/A
17. Composite Well Record: See the copy of the strip log in the Geological Report in the Attachment Section.
18. Completion Record: Reported in a separate report.

## D: GEOLOGY

### GEOLOGICAL SUMMARY

Tops: See page 10 of the Geological Report in the Attachment Section.

Sample Descriptions: See page 11 - 14 of the Geological Report in the Attachment Section.

Total Depth: 1505 mKB

### 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 at the end of the Geological Report in the Appendix Section.

### DRILL STEM TESTS

#1: Muskeg: 1418 – 1426 mKB

PF: 5.5 min	PFP: 732 - 806 kPa
ISI: 60.5 min	ISIP: 10860 kPa
FF: 59.0 min	FFP: 923 - 1657 kPa
FSI: 108.5 min	FSIP: 10478 kPa

PF: Closed chamber. Average gas flow rate =  $0.41 \ 10^3 \text{m}^3/\text{day}$

Final Flow: Closed chamber. Average gas flow rate =  $0.29 \ 10^3 \text{m}^3/\text{day}$

Rec: 30 m mud, & 64 m gas cut brackish water

#2: Slave Point: 1306 – 1317 mKB

PF: 3.5 min	PFP: 896 - 601 kPa
ISI: 61.5 min	ISIP: 10119 kPa
FF: 62.5 min	FFP: 639 - 1249 kPa
FSI: 79.5 min	FSIP: 10139 kPa

PF: Closed chamber. Average gas flow rate =  $1.1 \ 10^3 \text{m}^3/\text{day}$

Final Flow: Closed chamber. Average gas flow rate =  $1.1 \ 10^3 \text{m}^3/\text{day}$

Rec: 30 m gas cut drilling fluid & 66 m gas cut brackish water

## WELL EVALUATION

The following logs were run:

Simultaneous Triple Induction Shallow Focused Log:	425 – 1501 mKB
Spectral Density Compensated Neutron Log:	425 – 1494 mKB
Borehole Compensated Sonic Log:	425 – 1500 mKB
Micro Resistivity Log:	1205 – 1484 mKB

GAS, OIL, & WATER ANALYSES: N/A

FORMATION STIMULATION: N/A

FORMATION AND TEST RESULTS: N/A

DETAILED TEST PRESSURE DATA READINGS: N/A

## E. ENVIRONMENTAL CONSIDERATIONS

There are no known outstanding environmental considerations on this well. 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 next lease for re-use. The solids were hauled to a remote site where they were disposed of using the mix/bury/cover technique.

ATTACHMENTS

## Geological Report

on

### Para et al Cameron M-49 Unit M Section 49

Well Reached Total Depth of 1505 metres  
on  
March 5, 2003 @ 16:00 hours

for



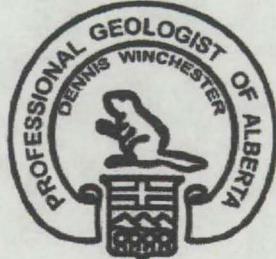
Prepared for: **Mr. Llew Williams**  
Paramount Resources Ltd.

Wellsite Geologist: **Brad Powell, B.Sc.**  
Running Horse Resources Inc.

Approved by:

Dennis Winchester

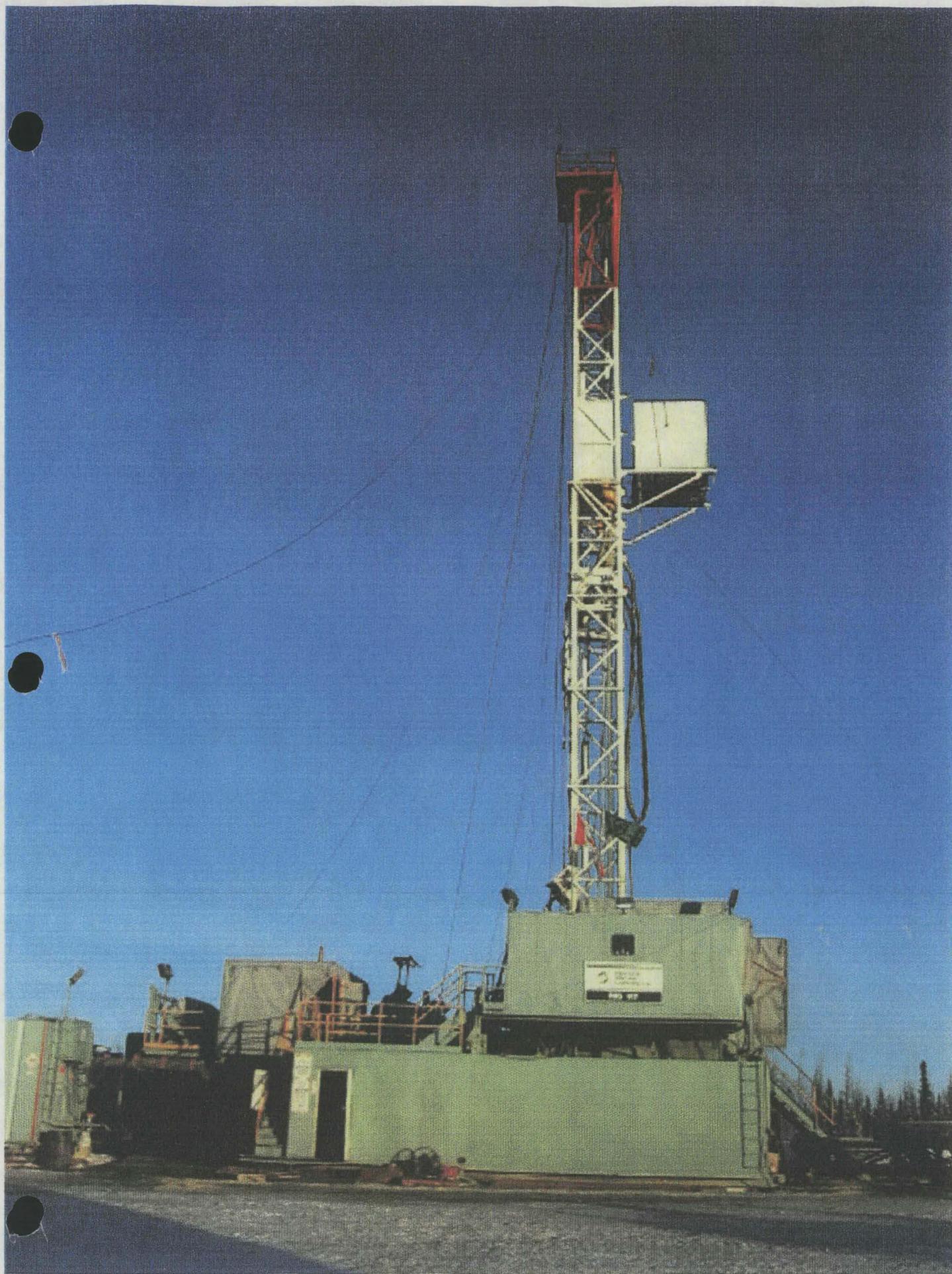
Dennis Winchester, P.Geol.  
Running Horse Resources Inc.



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## Geological Summary

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**Para et al Cameron D-49** is a vertical well spudded by Precision Drilling Rig #117 on February 20, 2003 @ 12:30hrs. Surface hole is 311mm drilled to 425.0m with 219.1mm casing landed at 424.9m. The 200mm main hole terminated in the PreCambrian at 1505.0m on March 5, 2003 @ 16:00hrs.

This well was drilled primarily to produce gas from the **Sulphur Point dolomite** and secondarily to evaluate the **Keg River dolomite** for possible gas. Samples were taken from 1300m to TD and a gas detector was run over the same interval. Triple Induction, SP, Neutron Density, Compensated Sonic were run from TD to surface casing. Microlog was run from TD to 1300m. Two real time, dual straddle DST were run from 1306m-1317m (Slave Point) and 1418m-1426m (Muskeg). A 13m core was cut from 1457m-1470m in the Keg River dolomite.

The **Sulphur Point dolomite** was entered at a log depth of 1379.0m (-669.7m) and consisted of microcrystalline to finely crystalline dolomite. It was ~15m in thickness and was conformably underlain by Muskeg anhydrite. There were common subhedral and occasional euhedral dolomite crystals and rhombs (possible fracture druses) and the intercrystalline and vug porosity was good to excellent. There was patchy light to medium brown oil staining which yielded a bright yellow gold fluorescence and a slow streaming milky yellowish white cut. Gas detector readings the interval reached a maximum of 265 units (13x BG). Well log indicated an average porosity of 9% with intervals of 15-20% on a dolomite scale from 1379-1387m and deep induction readings averaged 20-30ohms. **The Sulphur Point Dolomite appears to have good potential for gas production.**

The **Keg River dolomite** was entered at a log depth of 1446.0m (-736.7m) and was overlying a Granite Wash sand. The zone was 38m in thickness and the most promising interval 1455m-1462m (Rainbow member) was cored. It is described as light to dark, grey to brown (lighter downsection), dolomitized reefal packstone to grainstone. There was a spotty breccia-like appearance and was microcrystalline to finely crystalline with occasionally coarse crystalline. There was well developed vug porosity with massive coarse subhedral to euhedral crystal growth, and fair to good intercrystalline porosity. As well, there were scattered fractures, with bitumen/carbon deposition along fractures and vugs, with druse and dolomite rhomb linings. Fossils included Stromatoporoid remnants, calcareous algal laminations, and possible Amphipora. The good porosity was confirmed on logs with the Keg River averaging 3-6% porosity, up to 9-12% in the 1455m-1462m interval. There was weak to strong hydrocarbon odor in the samples, with very dull yellow fluorescence and weak green cut. The deep Induction log also shows the presence of hydrocarbons readings of ~50-60ohms over the interval of interest. **The Keg River has good potential for gas production at this location.**

**The well was cased as a potential Sulphur Point / Keg River gaswell.**

## Well Data Summary

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<b>OPERATOR</b>	Paramount Resources Ltd.
<b>WELL NAME</b>	Para et al Cameron M-49
<b>LOCATION</b>	Unit M Section 49
	Grid Area: Lat 60° 10' N Long 117° 30' W
<b>UWI</b>	300M496010117300
<b>POOL</b>	Undefined
<b>FIELD</b>	Cameron
<b>PROVINCE</b>	North West Territories
<b>LICENCE NUMBER</b>	1974
<b>CLASSIFICATION</b>	Production
<b>A.F.E. NUMBER</b>	02N310150

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<b>SURFACE COORDINATES</b>	Latitude: 60° 08' 52.585" North
	Longitude: 117° 39' 16.552" West

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<b>ELEVATIONS</b>	KB: 709.28m
	GL: 704.43m

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<b>TOTAL DEPTH</b>	Driller: 1505.0m
	Logger: 1503.5m

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<b>DRILLING CONTRACTOR</b>	Precision Drilling Rig #117
<b>ENGINEER</b>	Brian Neigum 403-997-5286
<b>GEOLOGIST</b>	Brad Powell 403-861-0838

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<b>SPUD DATE</b>	February 20, 2003 @ 12:30hrs
<b>COMPLETED DRILLING</b>	February 28, 2003 @ 21:05hrs
<b>RIG RELEASE</b>	March 5, 2003 @ 16:00hrs

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## Well Data Summary

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**HOLE SIZE** Surface hole: 311mm  
Main hole: 200mm

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**LOGGING** STI / MRT/ Sped / CNS / GR / XY CAL / BCS from TD to surface casing.  
Microlog from TD to top of Slave Point.

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**DST's** DST #1: 1306m-1317m (Slave Point)  
DST #2: 1418m-1426m (Muskeg)

**CORE** Core #1: 1457-1470m (Keg River)

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**SAMPLES** Operator: 1 set vials (@ 5m) over interval: 1300m - TD  
NEB: 2 sets vials (@ 5m) over interval: 1300m - TD  
1 set bags (@ 5m) over interval: 1300m - TD  
1 set geochem jars (@ 5m) over interval: 1300m - TD

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**DIRECTIONS** From High Level, Alberta, go north on Highway 35. 1.3km south of Indian Cabins, turn west onto main road and go 32.5km, staying right at all Y forks. Turn right up big hill, drive 35km, following rig signs. Turn right to location.

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### PROBLEMS

**On Surface Hole:** none

**On Main Hole:** Anhydrite mud contamination caused minor setbacks.

## Logging Summary

---

**Date:** February 28, 2003

**Logging Company:** Computalog      **Engineer:** K. Muir

**Mud Properties:** WT: 1080 kg/m<sup>3</sup>   Visc: 100 s/L   WL: 11.0   pH: 11.0

**Hole Size:** 200mm

**Surface Casing:** 219.1mm, 35.7kg/m, set @ 425.9m

**Depths:** Driller: 1505.0m   Strap: 1505.0m   Logger: 1503.5m

**Logging Times:** First Alerted: 19:00 February 28, 2003  
Time Required: 05:00 March 1, 2003 (10.0hr final notice)  
Arrived: 04:30 March 1, 2003

**Hole Condition:** Good

**Circulations:** 1hr after TD then 1.5hr after wiper trip

**Wiper Trips:** 15 stands

**LOGGING SEQUENCE**      Run #1: STI / MRT/ SpeD / CNS / Pe / GR / XY CAL  
Interval: TD to surface casing (with MRT from TD to top of Slave Point)

Run #2: BCS / XY CAL / GR  
Interval: TD to surface casing

**REMARKS:** No problems getting logging tools to bottom for Run #1. On bottom with Run #1 @ 10:30 March 1, 2003.

## Bit Record & Casing Summary

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### Bit Record

Bit #	Make	Type	Size (mm)	In (m)	Out (m)	Meters (m)	Hours	ROP (m/hr)	Condition T - B - G
1A	Smith	FDSS	311	0	59	59	8	7.38	7 - 4 - IN
2A	Hughes	XGG	311	59	171	112	7.5	14.93	7 - 3 - IN
3A	Russian	R193	311	171	426	255	10.5	24.29	2 - 1 - IN
1	Varel	MKS55	200	426	1423	997	41.5	24.02	70%
2	Varel	CH34	200	1423	1457	34	6	5.67	1 - 1 - IN
1C	Hughes	BHC409	199	1457	1470	13	5.5	2.36	99%
2RR	Varel	CH34	200	1470	1505	35	8.25	4.24	1 - 1 - IN

### Casing / Cementing Summary

Type	Size (mm)	Hole Size (mm)	Landed (m)	Total Jts	Remarks
Surf	219.1	311	424.9	31	30 joints of 219.1mm 35.72kg/m, K-55, 8RD ST&C new Ipsco casing ran. Cemented with BJ 32t of 0:1:0 Class G + 2% CaCl2. Approximately 4m3 of good returns, float OK, plug down @ 19:27 February 22, 2003.
Prod	139.7	200	1504.	118	118 joints of 139.7mm 20.3kg/m, J-55, 8RD ST&C new Ipsco casing ran. Cemented with BJ with 23.5t Fill-lite 2-125 with 0.6% R-3 and 3% A-9 for lead. Tail cement 6.5t 0:1:0 Class G with 0.4% FL-77 and 0.1% R-3. 4.0m3 good returns. Plug down 23:55 on March 4, 2003.

## Deviation Surveys

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<u>DEPTH</u>	<u>DEGREES</u>
41	1.00
65	0.75
94	1.00
123	0.50
151	0.75
181	1.00
210	1.00
237	1.00
266	1.00
295	0.75
323	0.75
349	1.25
377	0.75
418	1.50
522	1.00
616	1.00
751	0.75
846	1.00
938	1.00
1034	1.00
1137	1.00
1235	1.75
1282	1.50
1355	1.25
1498	1.00

## Daily Drilling Summary

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<u>Date</u>	<u>Depth</u>	<u>Progress</u>	<u>Operations (08:00hrs on date shown)</u>
Feb 20	0	0	Move rig to location. Start rigging up rig and nipple up diverter.
Feb 21	171	0	Nipple up diverter, drill rat hole. Function test diverter and BOPs. Safety meeting. Spud February 20 @ 12:30. Drill 311mm surface hole with required surveys and rig service from 0m to 59m with Bit #1A. POOH for bit trip. RIH with Bit #2A. Drill ahead to 171m. POOH for bit trip.
Feb 22	408	237	RIH with Bit #3A. Drill ahead 311mm surface hole from 171m to 408m with required surveys and rig service. Circulate hole clean, wiper trip with strap. RIH with reaming.
Feb 23	319	227	Drill 311mm surface hole with required surveys and rig service from 408m to 426m. Circulate and condition hole for running casing. Rig for and run 31 joints 219.1mm surface casing. Circulate casing. Rig up BJ cementers, safety meeting, and cement hole. Nipple down diverter and weld on bowl. Nipple up BOPs and start to pressure test.
Feb 24	657	231	Pressure test rams, kill line, HCR, BOP, Hydril, stabbing valve, manifold and check accumulator. WOC. Make up BHA with Bit #1. Hold drill out safety meeting, and drill out plug. Leak of test and drill ahead 200mm main hole to 612m. Lost circulation. Mix pill, pump pill, and drill ahead to 657m.
Feb 25	1169	512	Drill ahead 200mm main hole with required surveys and rig service from 657m to 720m. Lost circulation healed. Flip back to floc water. Drill ahead to 1169m.
Feb 26	1423	254	Drill ahead 200mm main hole with required surveys and rig services from 1169m to 1423m. Stop and circulate. POOH for bit trip.

## Daily Drilling Summary

---

<u>Date</u>	<u>Depth</u>	<u>Progress</u>	<u>Operations (08:00hrs on date shown)</u>
Feb 27	1457	34	Trip out Bit #1. Make up new BHA with Bit #2. RIH. Drill ahead 200mm main hole from 1423m to 1429m. Mud clobbered, stop and treat. Drill ahead to 1450m and then control drill to 1457m core point. Wiper trip to 1278m. Circulate to condition hole for coring. POOH to core.
Feb 28	1470	13	Make up coring assembly. RIH, ream to bottom. Cut core 1457m to 1470m, jammed off. POOH to recover core. Lay down core barrels.
Mar 1	1505	35	Rig service, RIH with Bit #2RR. Ream to bottom. Drill 200mm main hole with required surveys and rig service from 1470m to 1505m. Circulate to condition hole for logging. Wiper trip and circulate. Strap out to log.
Mar 2	1505	0	POOH to log. Rig up Computalog. Log tools on bottom at 10:30 March 1, 2003. Log Run #1. Rig out tools. Rig for log Run #2. Log Run#2. Rig out loggers. RIH and wait on orders. RIH to bottom and circulate to condition hole for DSTs.
Mar 3	1505	0	Rig in for 2 real time, closed chamber tests with Baker of time intervals 5, 60, 60, 180min.
Mar 4	1505	0	Test #1 and #2. POOH lay down test tools. RIH to condition hole for casing / cementing. Slip and cut, rig service.
Mar 5	1505	0	Run 118 joints 139.7mm production casing. Circulate casing. Rig in BJ to cement. Cement casing. Rig out BJ. WOC, tear out BOPs, set slips, tear out rig. Rig release March 5, 2003 @ 1600.

## Formation Tops

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**Kelly Bushing Elevation: 709.28m**

<b>Formation</b>	<b>Sample (m)</b>	<b>Logger (m)</b>	<b>SubSea (m)</b>
Wabamun	n/a	478.5	+230.8
Fort Simpson	n/a	696.0	+13.3
Slave Point	1302.5	1302.5	-593.2
F4	1341.5	1341.5	-632.2
Watt Mountain	1350.0	1350.0	-640.7
Sulphur Point LS	1367.0	1367.0	-657.7
Sulphur Point DOL **	1378.5	1379.0	-669.7
Muskeg	1394.0	1401.0	-691.7
Keg River *	1453.5	1446.0	-736.7
PreCambrian	1485.5	1484.0	-774.7
Total Depth.	1505.0	1503.5	-794.2

*\*\*Primary Zones of Interest*

*\* Secondary Zones of Interest*

## Sample Descriptions

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1295m-1302.5m

SHALE 80%, 1. gray brown to medium brown, dark brown to occasional black, bituminous appearance in part, micromicaceous in part, blocky, firm, dolomitic in part, silty in part, occasionally grading to coal, trace calcite veining, 2. light greenish gray to light green, dull to slightly micromicaceous, platy, fissile to firm, smooth and waxy in part, calcareous, locally pyritized and pyrite nodules, LIMESTONE 20%, off white to light gray, micritic, mudstone, lumpy to blocky, dense, tight, locally pyritized, no shows

### **SLAVE POINT @ 1302.5m**

1302.5m-1305m

LIMESTONE 100%, cream to light brown, brown, predominantly cryptocrystalline to microcrystalline, occasionally very fine crystalline, mudstone to wackestone, in part chalky, argillaceous in part, resinous in part, lumpy to blocky, scattered pyrite nodules and locally disseminated pyrite crystals, dense with trace poor intercrystalline porosity, inferred minor earthy porosity, tight, questionable show

1305m-1315m

LIMESTONE 100%, cream to light brown, brown, slightly darker than above, predominantly cryptocrystalline to microcrystalline, occasionally very fine crystalline, mudstone to wackestone, in part chalky, argillaceous in part, resinous in part, lumpy to blocky, scattered pyrite nodules and locally disseminated pyrite crystals, dense with trace poor intercrystalline porosity, inferred minor earthy porosity, pale yellow fluorescence, weak greenish yellow watery cut

1315m-1325m

LIMESTONE 100%, white to light brown, brown, becoming lighter, predominantly microcrystalline, occasionally very fine crystalline, mudstone to wackestone, in part pelletal, in part chalky, argillaceous in part, lumpy to blocky, scattered pyrite nodules and locally disseminated pyrite crystals, dense with trace poor intercrystalline porosity, inferred minor earthy porosity, questionable show

1325m-1340m

LIMESTONE 100%, cream to brown, becoming quite dark brown, cryptocrystalline to microcrystalline, mudstone, in part chalky, argillaceous in part, lumpy to blocky, scattered pyrite nodules and locally disseminated pyrite crystals, dense, tight, questionable show

### **F4 MARKER @ 1341.5m**

1340m-1345m

LIMESTONE 90%, as above, DOLOMITE 10%, brown to dark brown, grey brown, cryptocrystalline to microcrystalline, blocky, tight, minor ANHYDRITE?

## Sample Descriptions

---

1345m-1350m

LIMESTONE 80%, cream to brown, gray, very mottled, mudstone to wackestone, microcrystalline to very fine crystalline, argillaceous, lumpy to blocky, dolomitic in part, tight, yellow fluorescence, weak faint green cut, DOLOMITE 20%, medium brown, cryptocrystalline to microcrystalline, blocky, firm, tight, questionable show, minor ANHYDRITE, off white to tan, cryptocrystalline to microcrystalline, pearly lustre in part, calcareous in part, soft

### WATT MOUNTAIN @ 1350m

1350m-1367m

SHALE 100%, slightly greenish gray to mint green, occasionally bright blue green, waxy, soft, calcareous, common disseminated pyrite and very coarse cubic pyrite crystals and crystalline clusters, occasional dark gray to black SHALE

### SULPHUR POINT LIMESTONE @ 1367m

1367m-1378.5m

LIMESTONE 70%, predominantly off white to tan, light brown to dark brown, gray, cryptocrystalline to medium crystalline, mudstone to wackestone, brown rock fragments in white argillaceous lime matrix, in part pelletal, dolomitic in part, mottled, chalky, lumpy to blocky, tight with streaks of poor pinpoint porosity, assumed minor earthy porosity, no show, SHALE 30%, as above (cavings)

### SULPHUR POINT DOLOMITE @ 1378.5m

1378.5m-1380m

DOLOMITE 100%, light brown to brown, patchy dark brown oil stain, microcrystalline to fine crystalline packstone to grainstone, subhedral crystalline growth, streaks of fair pinpoint/vug porosity, fair intercrystalline porosity, bright yellow fluorescence, slow streaming milky yellow white cut

1380m-1385m

DOLOMITE 100%, light brown to brown, patchy dark brown oil stain, microcrystalline to fine crystalline packstone to grainstone, subhedral crystalline growth, streaks of fair pinpoint/vug porosity, fair intercrystalline porosity, local sucrosic texture, trace fossil debris, sandy appearance in part, trace bitumen, bright yellow fluorescence, slow streaming milky yellow white cut

1385m-1395m

DOLOMITE 100%, essentially as above, becoming coarser, becoming darker brown, scattered calcite and clear dolomite crystalline along cutting edges suggesting vug and/or fracture porosity, even bright yellow fluorescence, slow streaming milky yellow white cut

## Sample Descriptions

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### **MUSKEG @ 1394m**

1395m-1400m

ANHYDRITE 50%, pearly to watery lustre in part, white to off white, tan to brown, occasional gray, cryptocrystalline to microcrystalline, amorphous in part, soft to firm, slightly dolomitic in part, dense, tight, DOLOMITE 50%, light brown to dark brown oil stained, microcrystalline to very fine crystalline grainstone, poor vug porosity, streaks of fair to good intercrystalline porosity, sandy appearance, lumpy to blocky, dull gold to yellow fluorescence, slow streaming milky greenish white cut

ANHYDRITE 50%,

As above, DOLOMITE 50%, light brown to dark brown oil stained, microcrystalline to very fine crystalline grainstone, poor vug porosity, streaks of fair to good intercrystalline porosity, in part sucrosic, scattered subhedral to euhedral crystalline growth, sandy appearance, yellow fluorescence, slow streaming milky greenish white cut

1405m-1415m

ANHYDRITE 70%, pearly to watery lustre in part, white to off white, tan to brown, occasional gray, cryptocrystalline to microcrystalline, amorphous in part, soft to firm, slightly dolomitic in part, dense, tight, DOLOMITE 30%, light brown to dark brown oil stained, microcrystalline to very fine crystalline grainstone, poor vug porosity, streaks of fair to good intercrystalline porosity, sandy appearance, yellow fluorescence, slow streaming milky greenish white cut

1415m-1420m

ANHYDRITE 80%, pearly to watery lustre in part, white to off white, tan to brown, occasional gray, cryptocrystalline to microcrystalline, amorphous in part, soft to firm, slightly dolomitic in part, dense, tight, DOLOMITE 30%, light brown to dark brown oil stained, microcrystalline to very fine crystalline grainstone, poor vug porosity, streaks of fair intercrystalline porosity, sandy appearance, even dull gold to yellow fluorescence, slow streaming milky yellowish white cut

1420m-1425m

SAMPLE MISSED

1425m-1445m

ANHYDRITE 100%, white to tan, occasional gray to brown, pearly to watery lustre, cryptocrystalline, slightly dolomitic in part, amorphous to blocky, chalky in part to firm, dense, tight, minor DOLOMITE stringers

1445m-1450m

DOLOMITE 70%, light brown to dark brown oil stained, microcrystalline to fine crystalline grainstone, trace vug/pinpoint porosity, streaks of fair intercrystalline porosity, scattered medium subhedral to euhedral crystalline growth and clusters suggest vug porosity, sandy appearance, blocky, firm, yellow fluorescence, slow streaming milky

## Sample Descriptions

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greenish white cut, ANHYDRITE 30%, as above

1450m-1453.5m

DOLOMITE 50%, ANHYDRITE 50%

### **KEG RIVER @ 1453.5m**

1453.5m-1457m

DOLOMITE 100%, light brown to dark brown oil stained, microcrystalline to very fine crystalline grainstone, trace vug/pinpoint porosity, streaks of fair intercrystalline porosity, scattered medium subhedral to euhedral crystalline growth and clusters suggest vug porosity, sandy appearance, blocky, firm, yellow fluorescence, slow streaming milky greenish white cut

### **CORE POINT @ 1457m-1470m (13m)**

1457m-1470m For detailed core descriptions over the interval of 1457m to 1470m, see detailed core log.

1470m-1485m

DOLOMITE 100%, tan to brown, common dark brown oil stain, predominantly microcrystalline to fine crystalline, local to coarse crystalline, euhedral and subhedral crystal growth, packstone to grainstone, trace poor vug porosity, local fair to good sucrosic intercrystalline porosity, good grain relief, becoming tighter down section, clear dolomite rhombs and sparry calcite, possible fracture porosity, silty to sandy appearance, trace calcite infill, slightly bituminous with black bitumen partings, brittle to firm, very dull gold fluorescence, weak green cut

### **PRECAMBRIAN @ 1485.5m**

1485.5m-1505m

GRANITE / GNEISS, gray to black, dark green, pink, predominant hornblende, common green chlorite, orange feldspar, angular clear quartz fragments, coarse grained to granule sized, poor sorted, angular, arkosic in part, trace pyrite, very hard, weathered, abrasive, tight

### **TOTAL DEPTH @ 1505m**



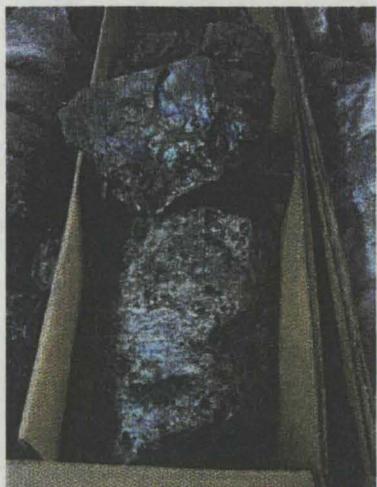
1460m, Keg River



1460m, Keg River



1460.1m, Keg River



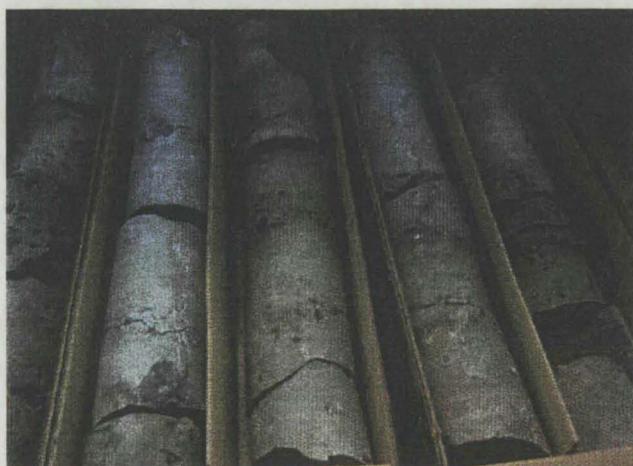
1461m, Keg River



1462.5m, Keg River



1468.1m, Tight Keg River



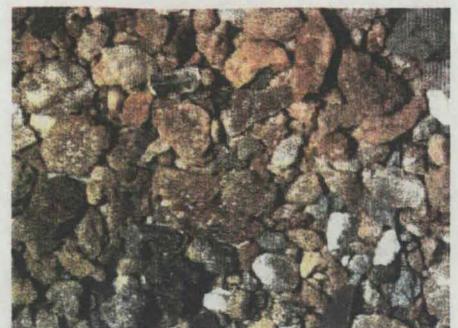
1468m, Tight Keg River



1310m, Slave Point Sh/Ls 10x



1360m, Watt Mountain Shale 10x



1385m, Sulphur Pt Dol 10X



1455m, Muskeg Anhydrite 10X



1460m, Keg River Dolomite



1490m, PreCambrian 10X



1490m, PreCambrian 10X



1557m, Keg River Top 10X



1557m, Keg River Top 30X



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

Well Name: Para et al Cameron M-49

Location: M-49 Grid Area: Lat 60° 10' N Long 117° 30' W

Licence Number: 1974

Spud Date: Feb 20/03 @ 12:30

Surface Coordinates: Latitude: 60° 08' 52.585" North  
Longitude: 117° 39' 16.552" West

#### Bottom Hole Coordinates

Ground Elevation (m): 704.43

Logged Interval (m): 1295.0 To: 1505.0

Formation: Sulphur Point Dolomite / Keg River

Type of Drilling Fluid: Gel Chemical

K.B. Elevation (m): 709.28

Total Depth (m): 1505.0

Region: Cameron Hills, NWT

Drilling Completed: Feb 28/03 @ 21:05

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

#### CORE

Contractor: Baker Hughes

Core #: 1

Formation: Keg River dolomite

Core Interval: From: 1457.0m  
To: 1470.0m

Cut: 13.0m

Recovered: 13.0m

Bit type: Hughes BHC 409

Size: 199mm

Coring Time: 5.5hrs

#### OPERATOR

Company: Paramount Resources Ltd.

Address: 4700 Bankers Hall West

888 3rd Street S.W.

Calgary, Alberta T2P 5C5

# GEOLOGIST

Name: Brad Powell, B.Sc.  
Company: Running Horse Resources Ltd.  
Address: Email: [wellsitegeologists@telus.net](mailto:wellsitegeologists@telus.net)  
<http://www.wellsitegeologists.com>  
(403) 660-9883

## Cores

Baker Hughes: 199mm core barrel  
Core #1: 1457.0m-1470.0m (Keg River)  
Cut: 13.0m Recovered: 13.0m

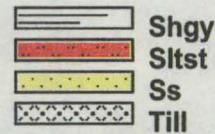
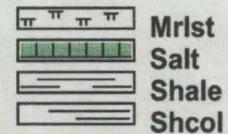
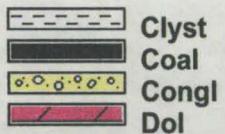
## DSTs

Baker Hughes: Closed chamber, real-time  
DST #1: 1306-1317m (Slave Point)  
DST #2: 1418-1426m (Muskeg)

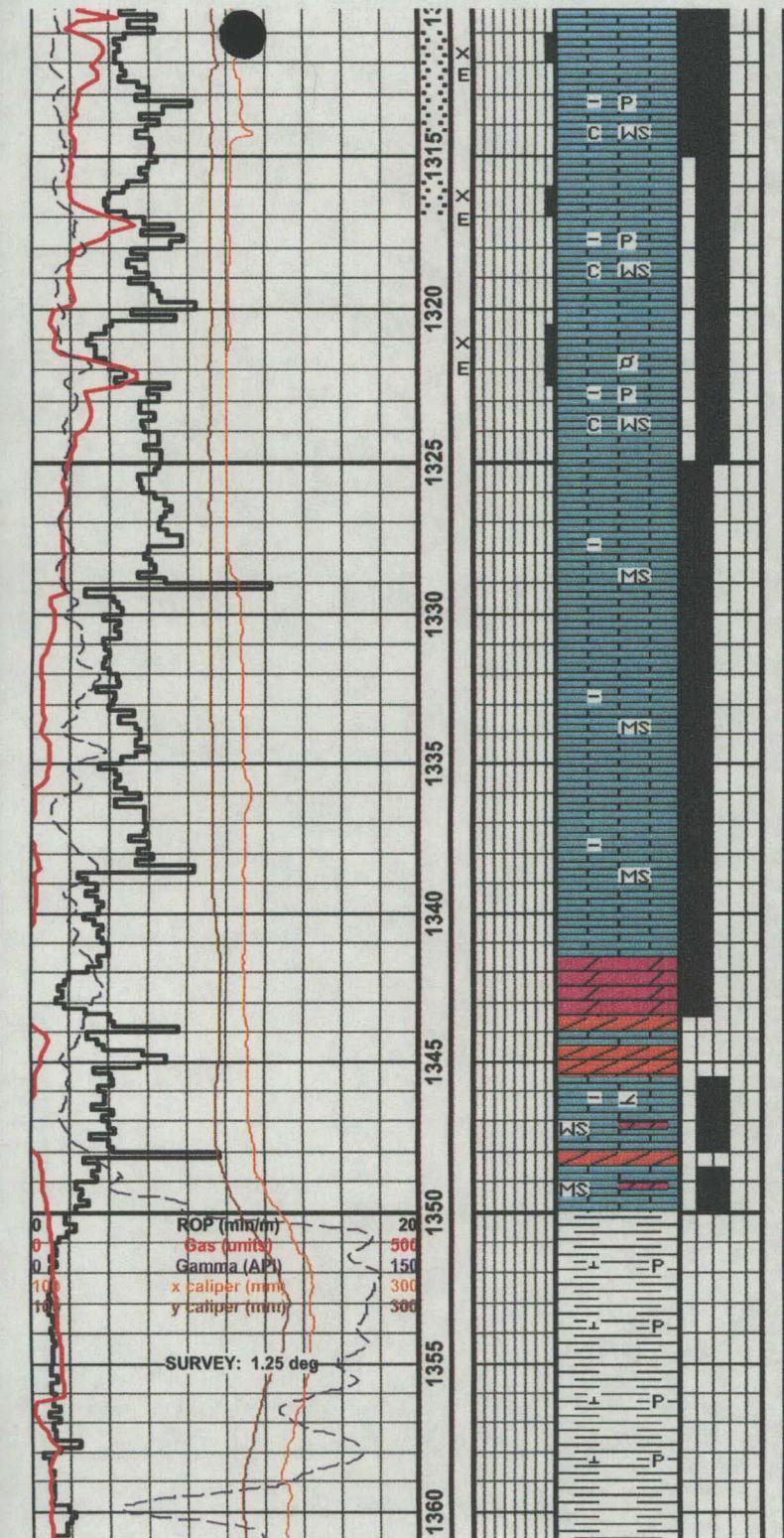
## Comments

This well was drilled by Presicion Drilling Rig #117.  
A MiniPac gas detector was run.  
Paramount AFE #02N310150  
Logging Program: Computalog  
Run #1: STI-MRT-SP-SPED-CNT-GR-DAC  
Run #2: BHS-GR-CAL  
139.7mm production casing was run

## ROCK TYPES







inferred mnr earthy por, pale yel thor, weak greenish yel watery cut

LS 100%, white to lt brn, brn, becoming lighter, predy mcxln, occly vf xln, mudst to wkst, ip pellet, ip chalky, arg ip, lumpy to blky, scat pyr nod and locally desm pyr xls, dns with tr p intxl por, inferred mnr earthy por, questionable show

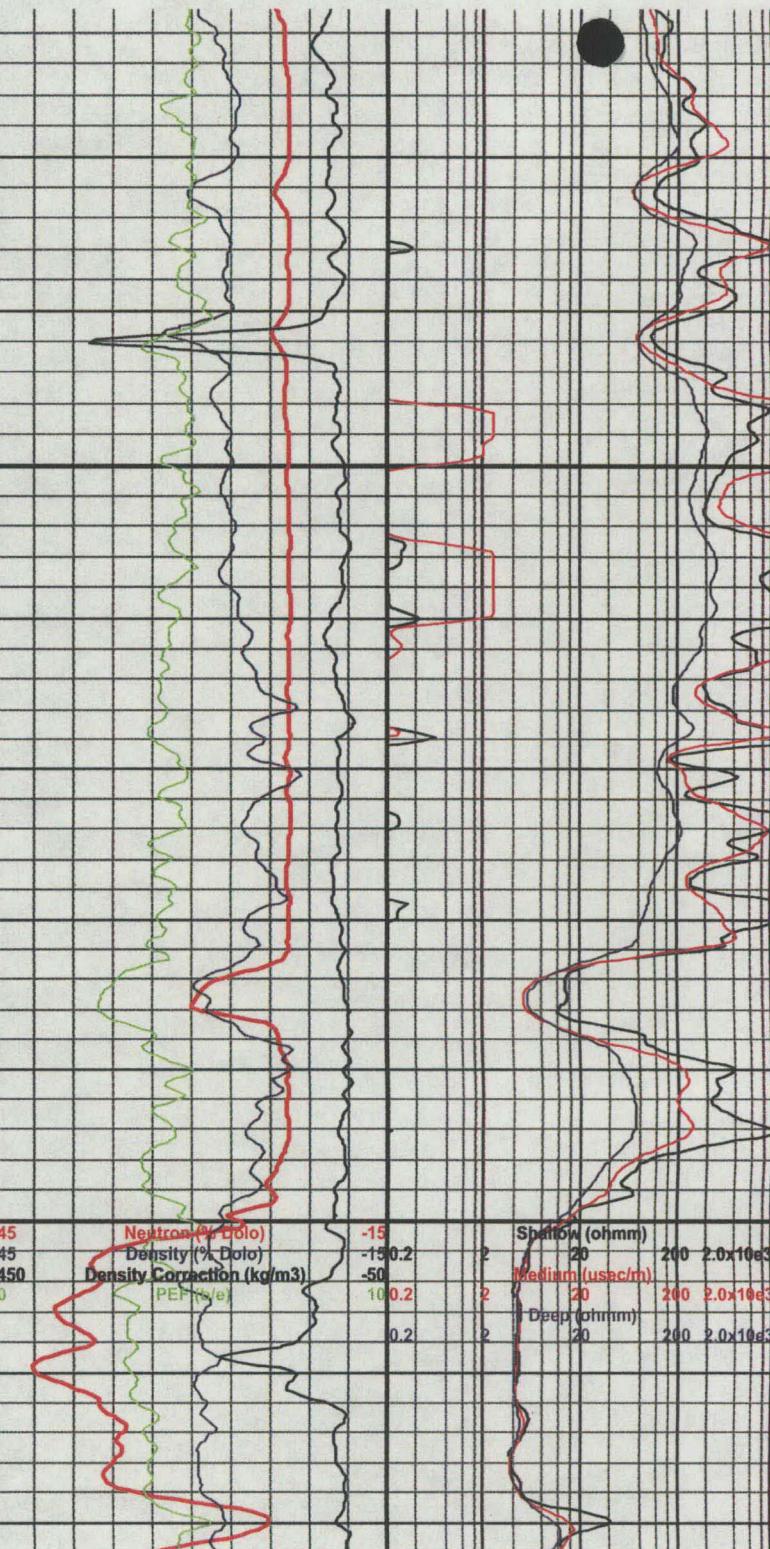
LS 100%, cream to brn, becoming quite dark brown, crptxl to mcxln, mudst, ip chalky, arg ip, lumpy to blky, scat pyr nod and locally desm pyr xls, dense, tt questionable show

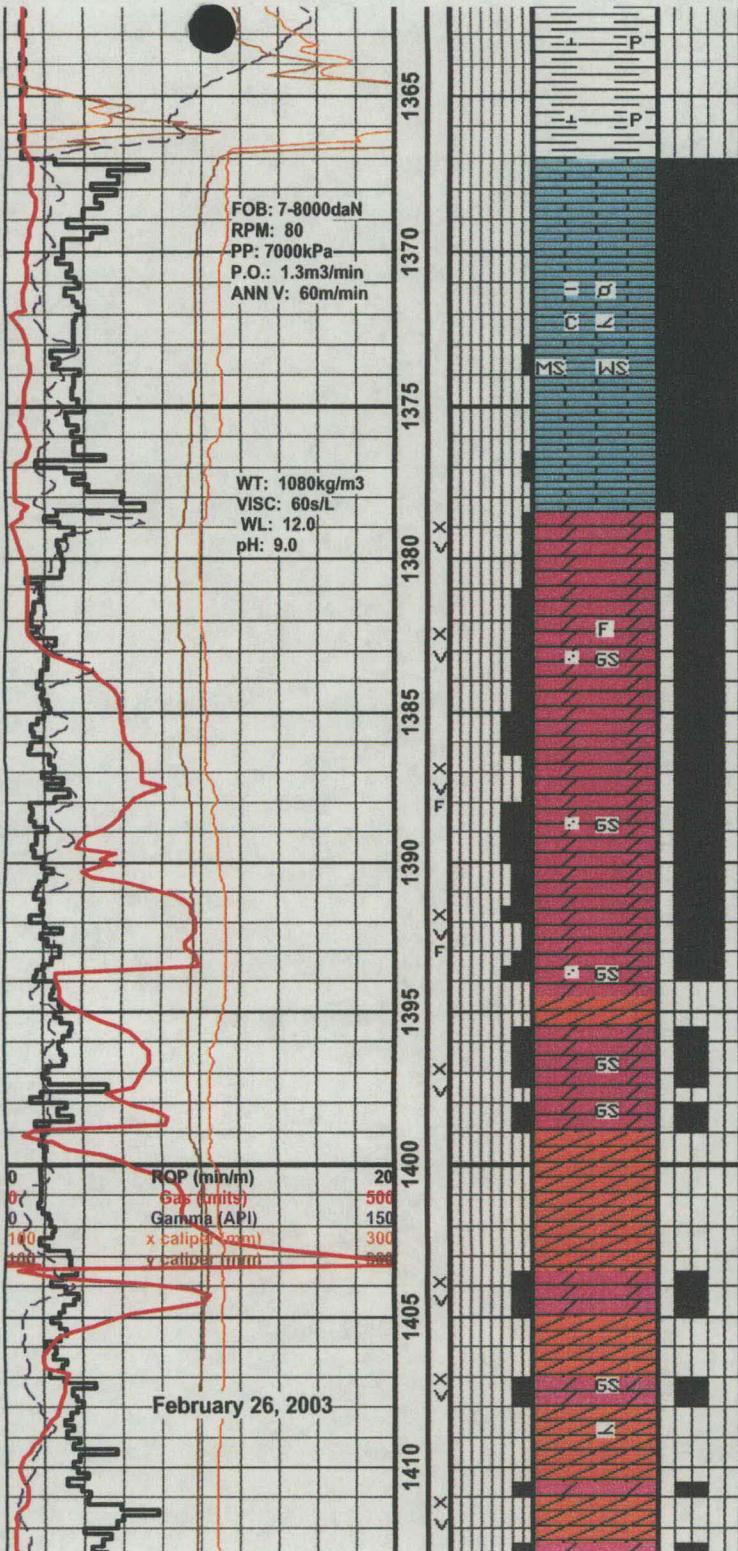
#### F4 MARKER @ 1341.5m (-632.2m)

LS 80%, cream to brn, gy, v mot, mudst to wkst, mcxln to vf xln, arg, lumpy to blky, dolc ip, tt, yel flor wk faint gn cut, DOL 20%, med brn, crptxl to mcxln, blky, frm, tt, questionable show, mnr ANH $\gamma$ , off wh to tan, crptxl to mcxln, pearly lustre ip, calc ip, soft

#### WATT MOUNTAIN @ 1350m (-640.7m)

SH 100%, sl greenish gy to mint gn, occly bri blue gn waxy, soft, calc, com desm pyr and v c cubic pyr xls and xl clusters, occ dk gy to black SH





**SULPHUR POINT LS @ 1367m (-657.7m)**

LS 70%, prey off wh to tan, It brn to dk brn, gy, cptx to med xin, mudst to wkst, brown rock frags in white arg lime matrix, ip pelletil, dolc ip, mot, chalky, lump to blky, tt with streaks of p pp por, assumed minor earthy por, no show, SH 30%, aa (cavings)

SULPHUR PT DOL @ 1379.0m (-669.7m)

DOL 100%, lt brn to brn, patchy dk brn oil stn, mcxln to f xln pkst to gnst, subhedral xl growth streaks of fair pp/vug por, fair intxl por, brt yel flor, slow strm milky yel wh cut

DOL 100%, lt brn to brn, patchy dk brn oil stn, mcxln to f xln pkst to gnst, subhedral xl growth streaks of fair pp/vug por, fair intxl por, local suc texture, tr fossil debris, sandy appnc ip, tr bit, brt yel flor, slow strm milky yel wh cut

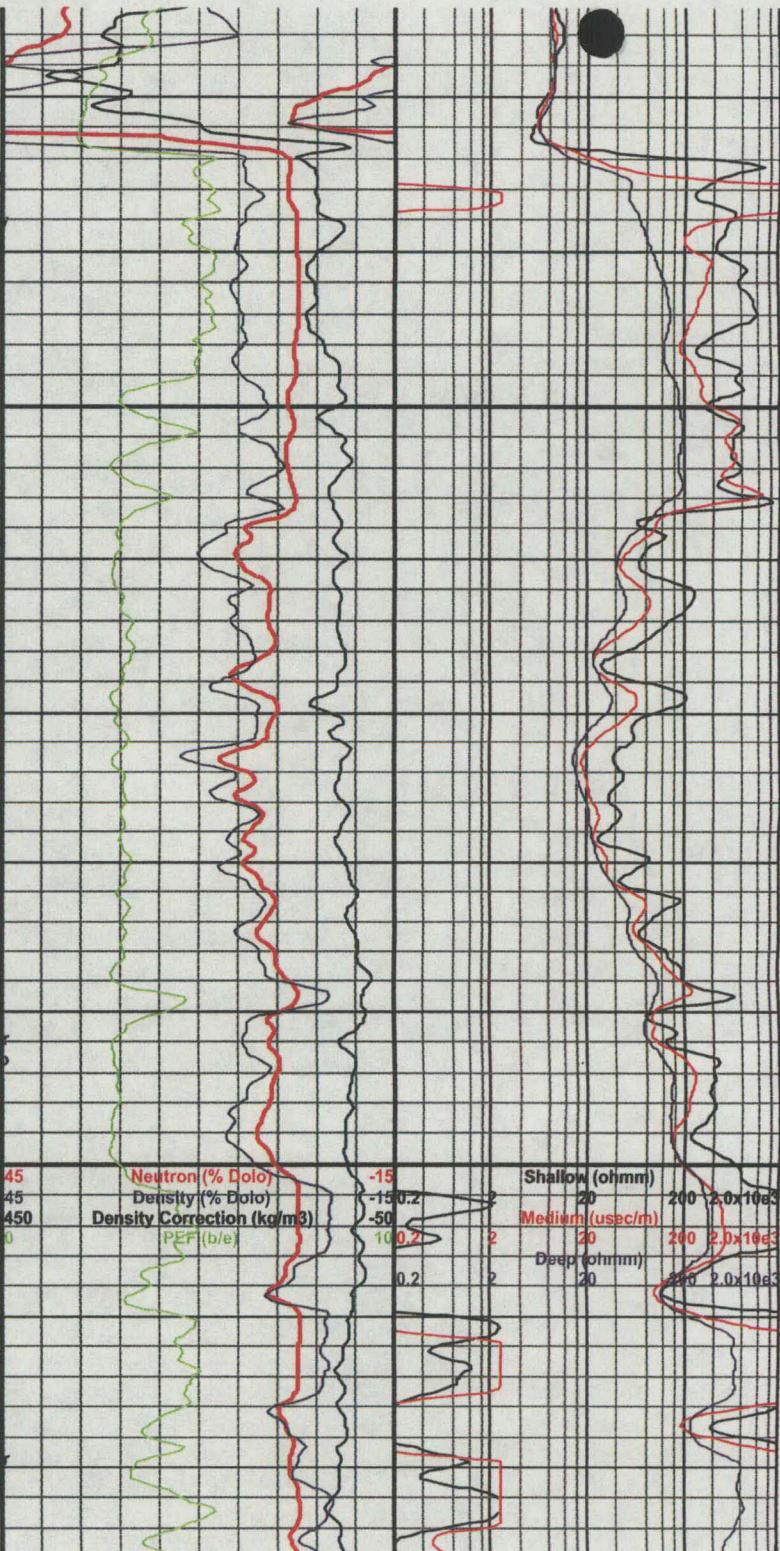
DOL 100%, essentially aa, becoming coarser, becoming darker brown, scat cal and clear dol xl along cutting edges suggesting vug and/or fracture por, even bright yellow flor, slow strm milky yellow white cut

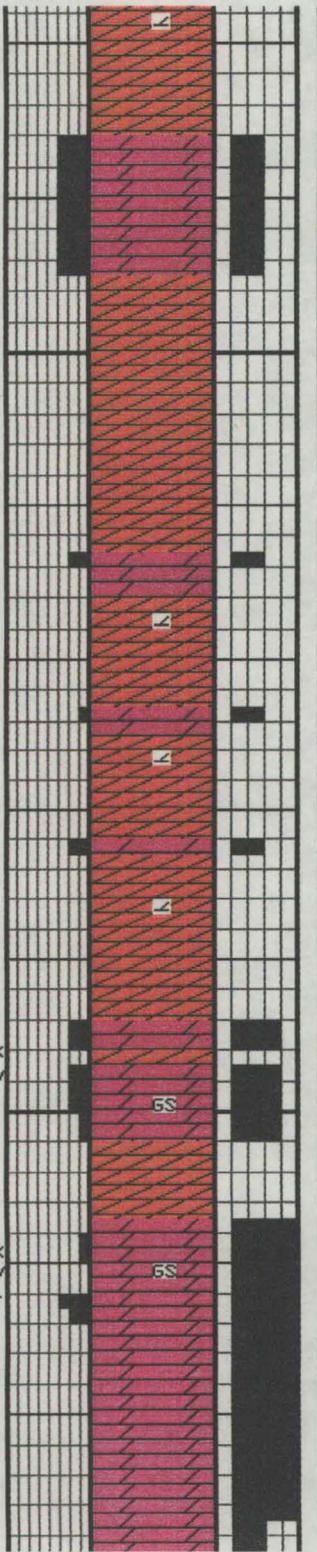
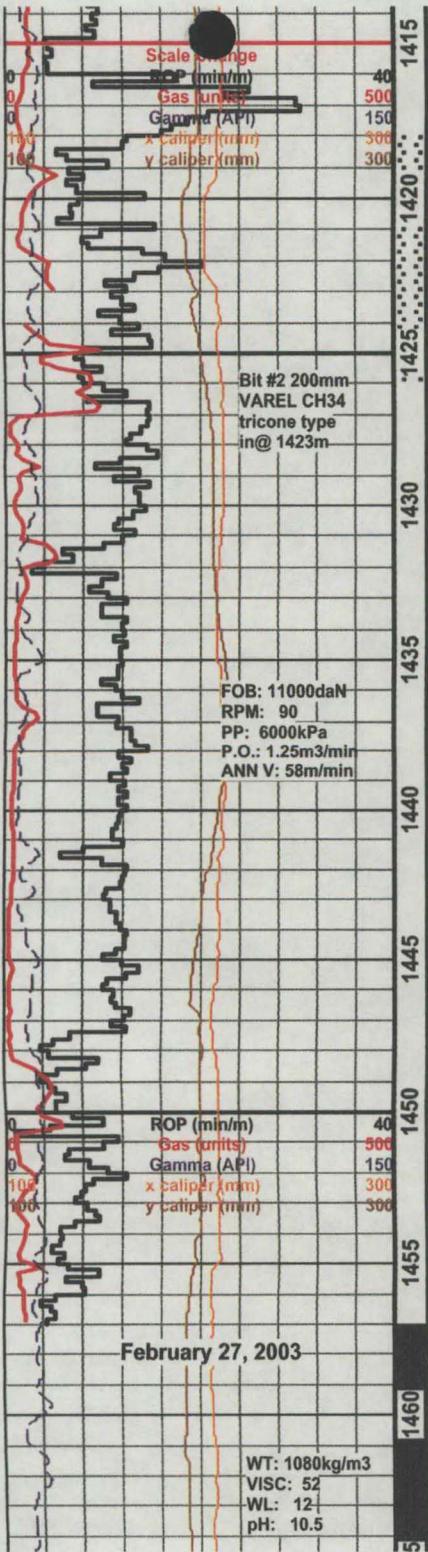
ANHY 50%, pearly to watery luster in part, wh to off wh, tan to brn, occ gy, crpxl to mcxln, amorph, soft firm, sl dolc ip, dense, tt, DOL 50%, lt brn to dk brn o stained, mcxln to vf in grn st, p vug por, streaks of fa to g in tixl por, sandy appnc, lumpy to blky, dull gold t yel flor, slow stmg milky grn wh cut

**MUSKEG @ 1401.0m (-691.7m)**

500 Sonic (usec/m) 100  
ANHY 50%, essentially aa, DOL 50%, lt brn to dk brn  
oil stained, mxcln to vf xln gnst, p vug por, streaks of  
fair to g intxl por, ip suc, scat subhedral to euhedral xl  
growth, sandy appnc, yel flor, slow stmg milky  
greenish wh cut

ANHY 70%, pearly to watery luster in part, wh to off wh, tan to brn, occ gy, crptxl to mxln, amorph, soft firm, sl dolc ip, dense, lt, DOL 30%, lt brn to dk brn o stained, mxln to vf xln gnt, p vug por, streaks of fa to g lnxtx por, sandy appnc, yel flor, slow stmg milky greenish wh cut





ANHY 80%, pearly to watery luster in part, wh to off wh, tan to brn, occ gy, crptxl to mxcln, amor ip, soft firm, si dolc ip, dense, tt, DOL 30%, lt brn to dk brn o stained, mxcln to vf xin gnst, p vug por, streaks of fair intxl por, sandy appnc, even dull gold to yel flor, slow stmg milky yellowish wh cut

ANHY 100%, wh to tan, occ gy to brn, pearly to watery luster, crptxl, si dolc ip, amor to blocky, chalky ip to firm, dense, tt, mnr DOL stringers

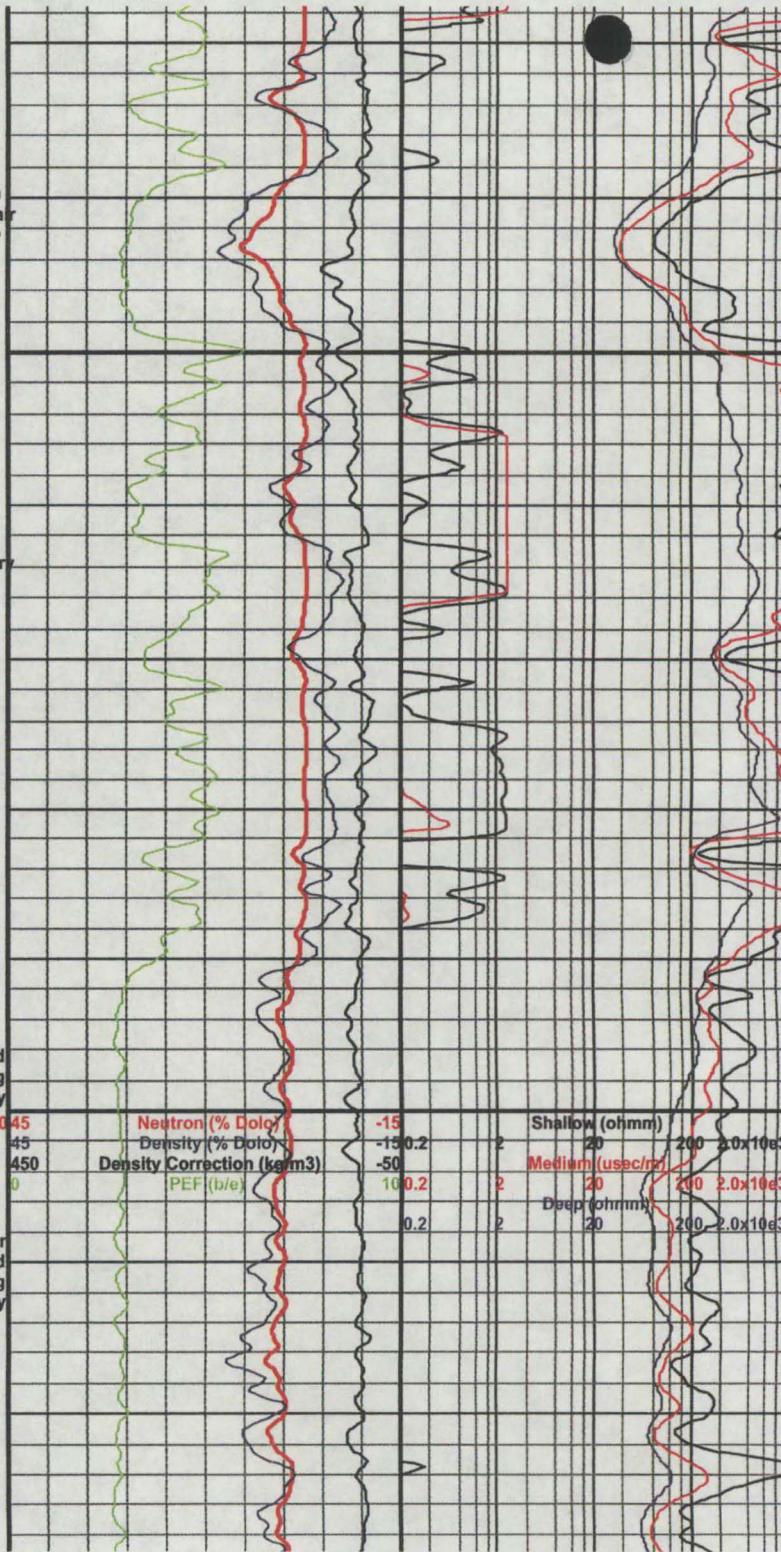
### KEG RIVER @ 1446.0m (-736.7m)

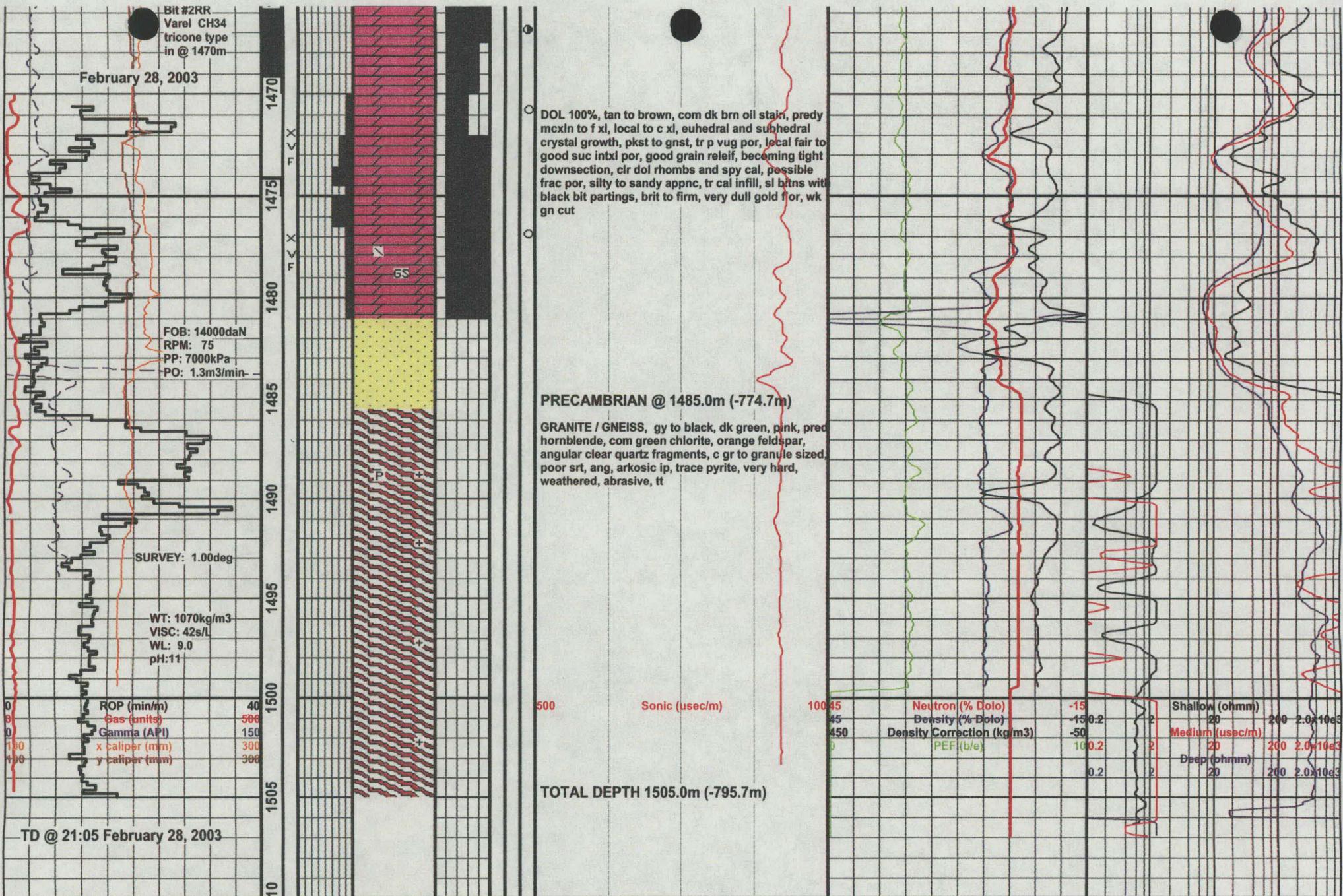
DOL 70%, lt brn to dk brn oil stained, mxcln to f xln gnst, tr vug/po por, streaks of fair intxl por, scat med subbed to euher xl growth and clusters suggest vug por, sandy appnc, blky, frm, yel flor, slow stmg milky greenish wh cut, ANHY 30% as above

DOL 100%, lt brn to dk brn oil stained, mxcln to vf xln gnst, tr vug/po por, streaks of fair intxl por, scat med subbed to euher xl growth and clusters suggest vug por, sandy appnc, blky, frm, yel flor, slow stmg milky greenish wh cut

CORE #1: 1457.0m-1470.0m  
 cut: 13m rec: 13m

For detailed core descriptions see Core Log @ bottom of the striplog







Scale 1:48 (25"=100') Metric

Well Name: Para et al Cameron M-49  
Location: M-49 Grid Area: Lat 60° 10' N Long 117° 30' W  
Licence Number: 1974 Region: Camern Hills, NWT  
Spud Date: Drilling Completed:  
Surface Coordinates: Latitude: 60° 08' 52.585" North  
Longitude: 117° 39' 16.552" West  
Bottom Hole  
Coordinates:  
Ground Elevation (m): 704.43m K.B. Elevation (m): 709.28m  
Logged Interval (m): 1457.0m To: 1470.0m Total Depth (m):  
Formation: Keg River  
Type of Drilling Fluid: Gelchem

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#### OPERATOR

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

#### GEOLOGIST

Name: Brad Powell, B.Sc.  
Company: Running Horse Resources Inc.  
Address: 66A New Street S.E.  
Calgary, Alberta T2G 3X9  
(403) 660-9883

#### Cores

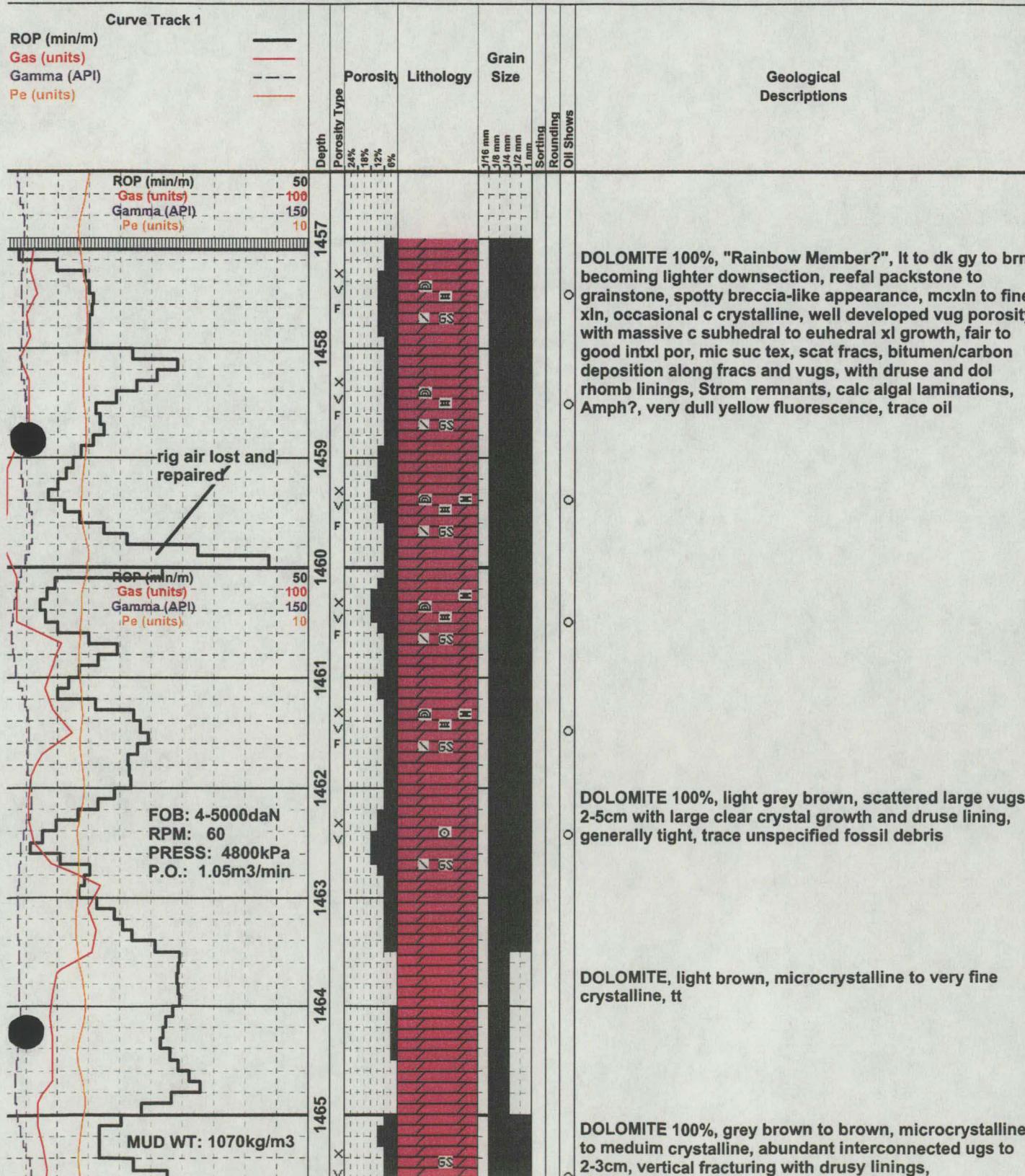
Attempted to cut 18m but core jammed off after only cutting 13m. General observations upon core recovery: there was no H2S present, and the core had a strong hydrocarbon odor. Spotty bleeding oil among fractures and vugs. Core was rubble and broken up in intervals of high porosity. Sections with very large vugs 2-3cm. Overall very pale yellow fluorescence under UV light.

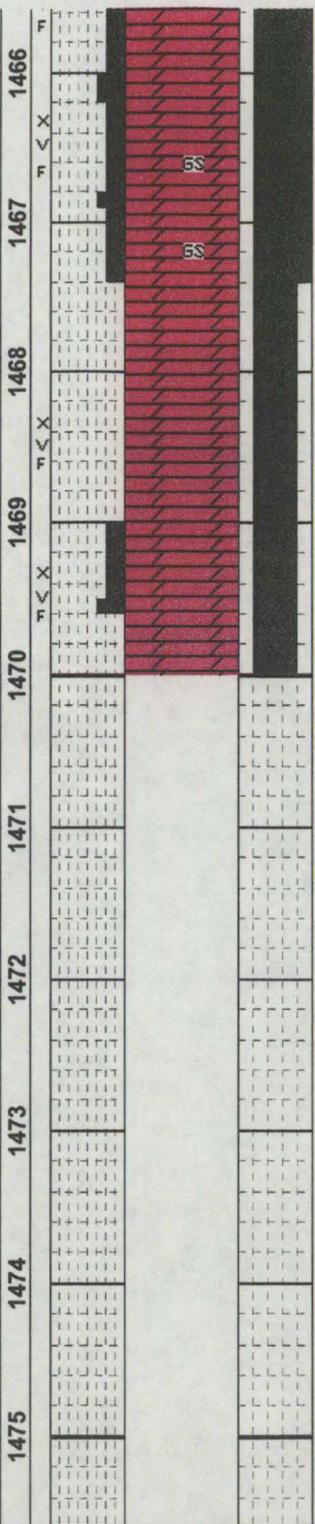
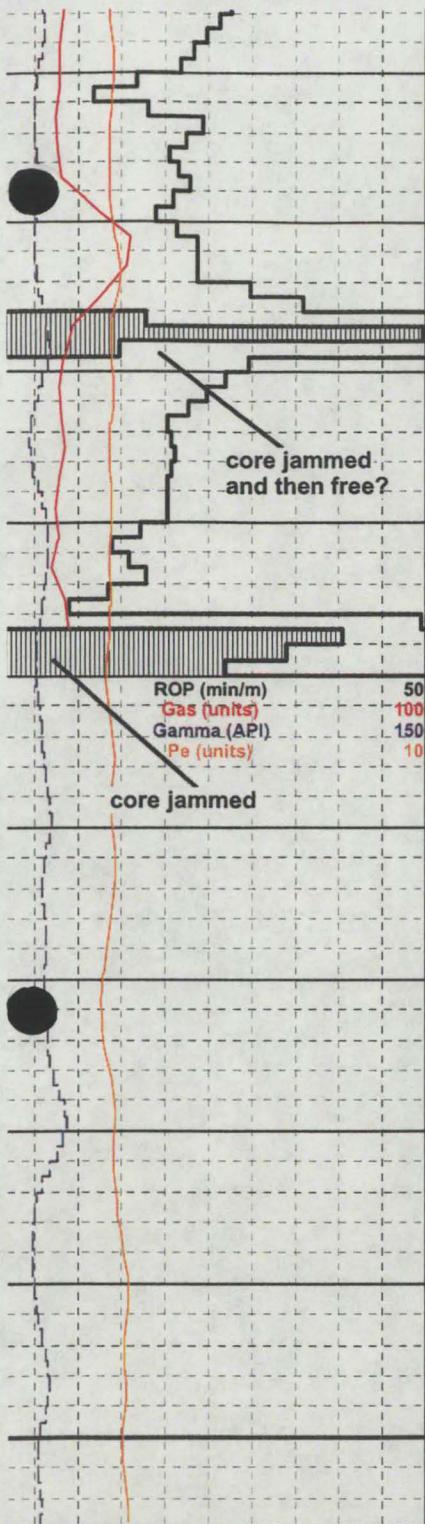
#### Comments

This well was drilled by Presicion Drilling Rig #117.  
A Continental gas detector was run.  
Gamma data provided by Computalog.  
Paramount AFE #02N310150

CORE

Contractor: Baker Hughes  
 Core #: 1  
 Formation: Keg River  
 Core Interval: From: 1457.0m Cut: 13.0m  
 To: 1470.0m Recovered: 13.0m  
 Bit type: BHC409  
 Size: 199mm x 102mm  
 Coring Time: 4hr56min





microsucrosic texture, good permeability, pale yellow fluorescence

DOLOMITE 100%, light brown, with streaks of excellent interconnected excellent vuggy porosity and vertical and horizontal fractures

