

**FINAL WELL REPORT**  
**PARAMOUNT RESOURCES LTD.**  
**N.E.B. COPY**  
**PARA ET AL CAMERON C-16**

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

**DATE: June 11, 2004**

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

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## A. INTRODUCTION

Paramount Resources Ltd. (Paramount) drilled a 1454 meter development well spudded on March 7, 2004 and finishing drilling on March 14, 2004 to evaluate hydrocarbon potential. The primary target was the Sulphur Point formation at a depth of 1409 mKB. The secondary target was the Slave Point formation at 1339 mKB

The drilling contractor was Precision Drilling Ltd based out of Calgary, Alberta. Precision's Rig # 247 was used and is a land rig rated for 2200 m. The rig had a mud system capacity of 63 m<sup>3</sup> and was equipped with a boiler.

The well was drilled on Production License No SDL-103 in which Paramount has an 88% working interest. Operating License No 2001 was issued to Paramount on February 26, 2004.

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

Latitude: 60° 05' 03.142"  
Longitude: 117° 32' 58.370"

Shadow Rathole Drilling Ltd. drilled a 610 mm conductor hole to 12.2 meters. From surface to 1.0 meters was snow, 1.0 – 9.2 m was permafrost and big rocks, 9.2 - 12.2 m was clay and big rocks. A 406 mm conductor pipe was set and cemented at 12.2 meters.

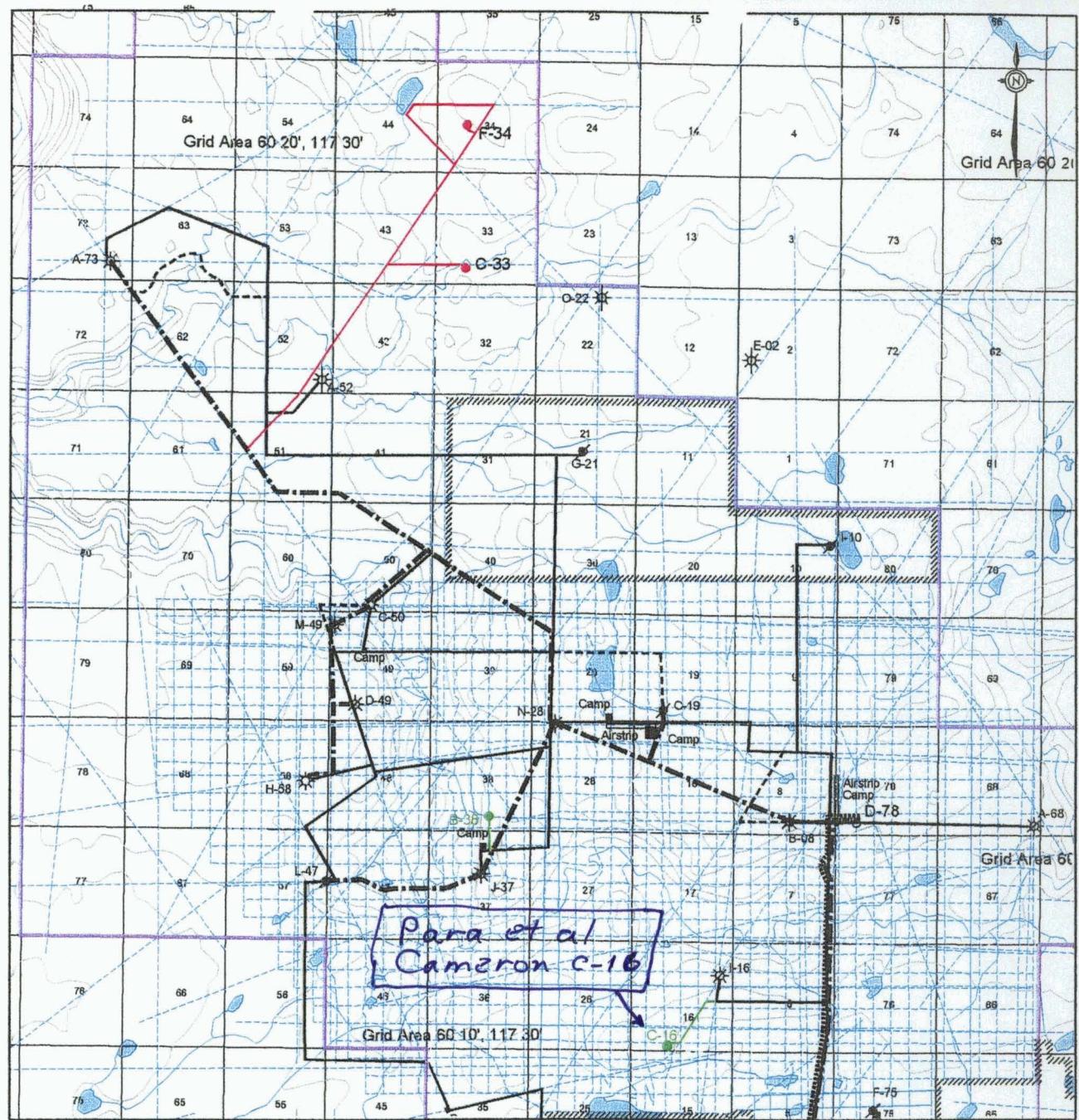
Precision #247 was moved onto the location on March 6, 2004. The rig was rigged up and the diverter was nippled up. Drilling commenced March 7, 2004 at 06:30 hours. A 311 mm surface hole was drilled to 430 mKB. Lost circulation and gravel sloughing problems were encountered from 80 - 100 meters. A string of 219.1 mm, 35.7 kg/m, J-55, ST&C surface casing was run to 430 mKB. The casing was cemented with 32 t class 'G' cement plus 2% CaCl<sub>2</sub>. There were 0.5 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 10:10 hours on March 9, 2004.

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 12000 kPa high pressure.

The float collar and shoe were drilled out to 438 mKB on March 10, 2004. A leak off test was performed with the leak off gradient found to be 25.6 kPa/m. A 200 mm hole was drilled with a flocculated water system to approximately 583 m where partial fluid losses were encountered. Drilling continued with partial losses to 617 m when returns were lost completely. Drilling continued blind to 639 mKB. Three cement plugs were set to heal the fluid losses. Drilling continued with the flocculated water system to 1250 m. A gel/chem mud system was then used to drill to a total depth of 1454 mKB. Precision Wireline ran induction, density, and sonic logs from bottom to surface casing and a micro resistivity log from bottom to 1300 mKB.

139.7 mm, 20.83 kg/m, J-55, ST&C production casing was run and set at 1454 mKB. It was cemented with 28.5 t Thixlite + 1% SMS and 3.5 t Expando LWL + 0.1% CFL-3 + 0.2% LTR + 0.2% SPC-II. There were 5.0 m<sup>3</sup> cement returns and the plug was bumped with 17.0 MPa.

Precision #247 was rigged out and released at 16:00 hours on March 16, 2004.



#### LEGEND

- SDL
- WELL SITE/ACCESS
- EMERGENCY ACCESS
- SEISMIC LINE
- PIPELINE
- 3D SEISMIC
- POWERLINE/FUEL LINE
- SATELLITE/AIRSTRIPE & ACCESS
- AMMENDED WELL SITE/ACCESS
- DELETED

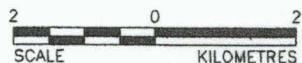
NOTE: EMERGENCY ACCESS NOT SHOWN FOR THIS APPLICATION

EXISTING  
OR PERMITTED  
BUT NOT YET  
CONSTRUCTED BY  
MAY 2003

THIS APPLICATION

#### REFERENCE

ORIGINAL PLANIMETRIC DATA SUPPLIED BY UNIVERSAL SURVEYS INC.  
IN NAD 83 UTM ZONE 11. PROJECT DATA OBTAINED FROM PARAMOUNT  
RESOURCES LTD.



NOTE: WIDTH OF LINES  
NOT TO SCALE

PROJECT		CAMERON HILLS PROJECTS		
				
TITLE		C-16 & B-38		
Golder Associates		PROJECT 03-1322-134.9000	FILE No.	Application-1 Plan
DESIGN	OJ	09/10/03	SCALE	AS SHOWN REV. 0
CADD	RFM	09/10/03		
CHECK				
REVIEW				

FIGURE: 1

B. GENERAL DATA

1. Well Name: Para et al Cameron C-16

Authority to Drill a Well No: 2001

Exploration Agreement Number: SDL-103

Location Unit: C

Section: 16

Grid Area:  $60^0 10' N$ ,  $117^0 30' W$

Classification: Development

2. Coordinates:

Latitude:  $60^0 05' 03.142''$   
Longitude:  $117^0 32' 58.370''$

3. Unique Well Identifier: 300C166010117300

4. Operator: Paramount Resources Ltd.

5. Contractor: Precision Drilling

6. Drilling Unit: Precision Rig # 247, Land Rig

7. Position Keeping: N/A

8. Support Craft (Helicopter): N/A

9. Drilling Unit Performance: Good

10. Difficulties and Delays: Gravel and circulation losses on surface hole.  
Full circulation losses in the Wabamun.

11. Total Well Cost: \$820,000

12. Bottom Hole Co-ordinates: Same as surface

## C. SUMMARY OF DRILLING OPERATIONS

### 1. Elevations:

Ground: 754.22 m above sea level  
KB: 758.82 m above sea level  
KB to Casing Flange: 4.6 m

### 2. Total Depth:

FTD: 1454 mKB  
PBDT: 1440 mKB  
TVD: 1454 mKB

### 3. Date and Hour Spudded: March 7, 2004 at 06:30

### 4. Date Drilling Completed: March 14, 2004

### 5. Date of Rig Release: March 16, 2004

### 6. Well status: Cased and Suspended

### 7. Hole Sizes and Depths:

Conductor Hole:	610 mm to 12.2 m
Surface Hole:	311 mm to 430 mKB
Main Hole:	200 mm to 1454 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 29, 2004
Cement Volume:	120 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:	32
Depth Set:	430 mKB
Cut Height:	At surface
Date Set:	March 9, 2004
Cement Volume:	32 Tonnes

Float Shoe Depth: 430 mKB  
 Float Collar Depth: 416 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: 109  
 Thread: ST&C  
 Depth Set: 1454 m KB  
 Cut Height: Surface  
 Date Set: March 16, 2004  
 Float Shoe Depth: 1454 mKB  
 Float Collar Depth: 1440 mKB  
 Cement Volume 1: 28.5 Tonnes  
 Cement Type 1: Thixlite  
 Additives 1: 1% SMS  
 Cement Volume 2: 3.5 Tonnes  
 Cement Type 2: Expando LWL  
 Additives 2: 0.1% CFL-3 & 0.2% LTR & 0.2% SPC-II  
 Cement Top: Surface

9. Sidetracked Hole: N/A

**10. Drilling Fluid:**

Conductor Hole: Water  
 Properties: N/A

Surface Hole:	Gel - Chemical
Properties:	Viscosity: 29 - 90 sec/L
	Weight: 1000 - 1090 kg/m <sup>3</sup>
	PH: 9.0 - 11.0
Main (431 - 1250 m):	Floc water
Properties:	Viscosity: 29 sec/L
	Weight: 1000 kg/m <sup>3</sup>
	PH: 9.0 - 11.5

Main (1250 m – TD):	Gel-chem
Properties:	
Viscosity:	30 - 83 sec/L
Weight:	1040 - 1110 kg/m <sup>3</sup>
PH:	8.0 – 11.0
Water loss:	8.0 – 9.0 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:	438 m
Fluid Density:	1000 kg/m <sup>3</sup>
Applied Pressure:	6800 kPa
Hydrostatic Pressure:	4218 kPa
Mud Weight Equivalent:	2612 kg/m <sup>3</sup>
Casing setting depth:	430 mKB

The surface casing leak-off test was taken to a gradient of 25.6 kPa/m before leak off was detected.

#### 14. Time Distribution

Date	Hours	Activity
04/03/06	14.0	Move in / rig up
	2.0	Nipple up diverter
04/03/07	0.25	Safety meeting
	0.25	Rig service
	4.5	Move in / rig up
	1.5	Nipple up diverter
	0.25	Test diverter
	0.5	Survey
	8.75	Drill
	3.25	Work tight hole
	1.5	Circulate and condition mud
	0.75	Build volume
	1.5	Trip
	1.0	Ream
04/03/08	0.75	Rig service
	11.5	Drill
	1.75	Survey
	0.5	Circulate and condition mud
	8.0	Trip
	1.5	Ream
04/03/09	0.25	Rig service
	0.5	Safety meeting
	3.25	Nipple up BOP's
	2.75	Test BOP's
	4.25	Run casing
	1.25	Cement casing
	2.5	Wait on cement
	3.75	Trip
	0.75	Circulate and condition mud
	3.25	Weld bowl
	1.5	Weld shoe
	0.25	Rig service
	0.25	Safety meeting
	0.5	BOP drill
	0.5	Survey

	1.0	Wait on cementers
	8.5	Drill
	1.25	Drill out casing shoe
	0.25	Circulate and condition mud
	2.25	Pressure test BOP's
	0.5	Leak off test
	2.5	Wait on water
	1.25	Set cement plugs
	1.0	Wait on cement
	4.0	Trip
04/03/11	0.75	Rig service
	0.5	Safety meeting
	1.25	Drill
	5.75	Drill out cement plugs
	0.25	Wait on water
	0.5	Set cement plugs
	3.75	Wait on cement
	11.25	Trip
04/03/12	0.25	Rig service
	0.25	Safety meeting
	8.0	Drill
	0.75	Survey
	0.5	Set cement plugs
	2.5	Drill out cement plugs
	3.25	Wait on cement
	8.5	Trip
04/03/13	0.75	Rig service
	1.75	Survey
	21.5	Drill
04/03/14	0.5	Rig service
	0.25	Safety meeting
	1.0	Survey
	14.25	Drill
	2.0	Circulate and condition mud
	0.25	Log
	5.75	Trip
04/03/15	0.25	Safety meeting

	0.25	Rig repair
	2.75	Circulate and condition mud
	7.5	Log
	5.25	Run casing
	2.5	Trip
	4.75	Lay down drill string
	0.75	Wait on orders
04/03/16	0.25	Safety meeting
	1.25	Cement casing
	3.75	Wait on cement
	10.75	Tear out rig

### Time Break Down by Activity:

<u>Activity</u>	<u>Hours</u>
Move in / rig up:	18.5
Drilling:	73.75
Work tight hole:	3.25
Surveying:	6.25
Build volume:	0.75
Circulate and condition mud:	7.75
Wait on water:	2.75
Running casing:	9.5
Cementing casing:	2.5
Wait on cement	14.25
Wait on cementers:	1.0
Set cement plugs:	2.25
Drill out cement plugs:	8.25
Drill out casing shoe:	1.25
Rig service:	3.75
Rig repair:	0.25
Tripping:	45.75
Safety meetings:	2.5
Nipple up diverter:	3.5
Test diverter:	0.25
Ream:	2.5
Weld casing bowl:	3.25
Weld shoe:	1.5
Nipple up BOP's:	3.25
Pressure test BOP's:	5.0
BOP drill:	0.5
Leak off tests:	0.5

Logging:	7.75
Lay down drill string:	4.75
Wait on orders:	0.75
Tear out rig:	10.75

15. Deviation Survey: See page 8 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: The well is not yet completed.

D: GEOLOGY

GEOLOGICAL SUMMARY

Tops: See page 11 of the Geological Report in the Attachment Section.

Sample Descriptions: See page 12 - 15 of the Geological Report in the Attachment Section.

Total Depth: 1454 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: N/A

WELL EVALUATION

The following logs were run:

Simultaneous Triple Induction Shallow Focused Log:	429 – 1452 mKB
Spectral Density Compensated Neutron Log:	429 – 1444 mKB
Borehole Compensated Sonic Log:	429 – 1453 mKB
Micro Resistivity Log:	1300 – 1434 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 NewAlta in Alberta for downhole disposal. The solids were hauled to a remote site at E-78 60<sup>0</sup> 10' N, 117<sup>0</sup> 15' W where they were disposed of using the mix/bury/cover technique.

# RUNNING HORSE RESOURCES INC.



CALGARY ALBERTA CANADA  
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wellsitegeologists@telusplanet.net  
www.wellsitegeologists.com

## Geological Report

on

### Para et al Cameron C-16 Unit C Section 16

Well Reached Total Depth of 1454 metres  
on

March 14, 2004 @ 15:20 hours

for



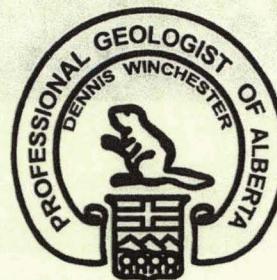
Prepared for: **Mr. Llew Williams, Manager  
Paramount Resources Ltd.**

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

Approved by:

Dennis Winchester

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





**Precision 247**



Rig way off on the ridge jutting out into the horizon



Driving off the ridge

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<b>Geological Striplog 1:240 scale</b>	<b>Back Sleeve</b>
<b>CD /Digital report, files, photos, logs</b>	<b>Back cover slip</b>

## Executive Summary

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**Para et al Cameron C-16** is a vertical development well spudded by Precision Drilling Rig #247 on March 7, 2004 @ 06:30. Surface hole is 311mm drilled to 430.0m with 219.1mm casing landed at 430.0m. The 200mm main hole terminated in the **Muskeg** formation at 1454.0m March 14, 2004 @ 15:20. 139.7mm production casing was run and landed at 1454.0m.

This well was drilled primarily to produce oil from the **Sulphur Point Dolomite** and secondarily to evaluate the **Slave Point** for possible gas. Cutting samples were taken from 1310m to TD at 1454.0m. Triple Induction, SP, Neutron, Density, Compensated Sonic, Pe, Gamma Ray and XY Caliper logs were run from TD to surface casing. Microlog was run from TD to 1300m. A total gas detector was run from surface casing to TD.

The **Sulphur Point Dolomite** is a microcrystalline to medium crystalline packstone to grainstone. The dolomite was picked in samples at 1413.5m and 1411.2m on logs. It was 12.3m thick, conformably and sharply underlain by anhydrite of the Muskeg formation. Observation of samples saw common subhedral and euhedral crystal growth. Grain size was microcrystalline to medium crystalline with streaks of fair to good vug porosity and fair intercrystalline in part siccic porosity. The samples appeared quite granular in texture. The most porous intervals from 1417-1420m show 18-24% porosity on density logs. Excellent ROP rates also indicate good porosity. The samples were tan to light brown to brown and spotty oil staining. They showed scattered yellow fluorescence and a slow streaming watery to milky yellowish white cut, and a strong petroliferous odor. Induction log analysis showed 9-12ohms on the deep induction in the porous intervals. Caliper logs show slight filter cake, and the SP curve shows 40mV deflection, both indicating permeability. Gas detector readings in the dolomite interval peaked at 370 units over a baseline of 90 units. **The Sulphur Point Dolomite appears to have potential for oil production.**

The **Slave Point** occurred in samples at 1345.6m which was confirmed by logs. It is a massive, clean limestone mudstone to wackestone, 41.0m thick, resting conformably on the dolomitic F4 marker. The Slave Point is cream to brown, in part mottled, cryptocrystalline to microcrystalline, with trace very fine crystalline. It appears in part chalky, argillaceous in part, and flaky to blocky, with scattered pyrite nodules and locally disseminated pyrite crystals. The lower section has minor anhydrite stringers. It was dense with traces of poor intercrystalline porosity, and inferred minor earthy porosity. This was confirmed by density logs and over the slightly porous middle interval of 1355-1371m; it showed 4-7% porosity. There is a slight gas-effect crossover on the density / neutron logs. The samples had a slight petroliferous odor, and common yellow fluorescence, with a questionable watery greenish cut. Deep induction logs show over

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## Executive Summary

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70-80 ohms. Gas detector readings from 1356.5-1358.5m are approximately 320 units over a baseline of 195 units. **The Slave Point does not appear to have strong production potential at this location.**

**Para et al Cameron C-16 was cased for production as an oil well from the Sulphur Point Dolomite.**



1420m, Sulphur Point Dolomite, medium subhedral and euhedral crystal growth and vug porosity, 60X zoom.

## Well Data Summary

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<b>OPERATOR</b>	Paramount Resources Ltd.
<b>WELL NAME</b>	Para et al Cameron C-16
<b>LOCATION</b>	Unit C Section 16
	Grid Area: Lat 60° 10' N Long 117° 30' W
<b>UWI</b>	300C166010117300
<b>POOL</b>	Undefined
<b>FIELD</b>	Cameron Hills
<b>PROVINCE</b>	Northwest Territories
<b>LICENCE NUMBER</b>	2001
<b>CLASSIFICATION</b>	Production
<b>A.F.E. NUMBER</b>	03N410020

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<b>SURFACE COORDINATES</b>	Latitude: 60° 05' 03.142" North
	Longitude: 117° 32' 58.370" West

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<b>ELEVATIONS</b>	KB: 758.82m
	GL: 754.22m

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<b>TOTAL DEPTH</b>	Driller: 1454.0m (-695.18m SubSea)
	Logger: 1454.0m (-695.18m SubSea)

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<b>DRILLING CONTRACTOR</b>	Precision Drilling Rig #247
<b>ENGINEER</b>	Meril Schrader 780-446-3768
<b>GEOLOGIST</b>	Brad Powell, B.Sc. 403-861-0838

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<b>SPUD DATE</b>	March 7, 2004 @ 06:30
<b>COMPLETED DRILLING</b>	March 15, 2004 @ 15:20
<b>RIG RELEASE</b>	March 16, 2004 @ 12:00

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## Well Data Summary

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

**CASING** Surface: 219.1mm, 35.70 kg/m set @ 430.0m  
Production: 139.7mm, 20.83 kg/m set @ 1454.0m

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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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**DSTs** none

**CORES** none

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**SAMPLES** Operator: 1 set vials (@ 5m) over interval: 1310m - TD  
NEB: 2 sets vials (@ 5m) over interval: 1310m - TD  
1 set bags (@ 5m) over interval: 1310m - TD

**MUD RECORD** 0-430m Gelchem  
430-1250m Floc Water  
1250m-TD Gelchem

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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 33km, staying right at all Y forks. Turn right up big hill, drive 16km, following rig signs.

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### PROBLEMS

**On Surface Hole:** Considerable sloughing in gravel zones required much reaming and cleaning on surface hole.

**On Main Hole:** Severe lost circulation and losses required 3 cement plugs to be run, over the entire Wabamun formation.

Had to stop and treat mud for anhydrite contamination in mud upon drilling into Muskeg formation.

## Logging Summary

---

**Date:** March 15, 2004

**Logging Company:** Precision Wireline      **Engineer:** K. Toews

**Mud Properties:** WT: 1100 kg/m<sup>3</sup>    Visc: 81 s/L    WL: 8.0    pH: 10.5

**Hole Size:** 200mm

**Surface Casing:** 219.1mm, 35.7kg/m, set @ 430.0m

**Depths:** Driller: 1454.0m    Strap: 1454.36m    Logger: 1454.0m

**Logging Times:** First Alerted: 13:00 March 13, 2004  
Time Required: 00:01 March 15, 2004 (9.0hr final notice)  
Arrived: 22:45 March 14, 2004  
Rig Up: 23:45 March 14, 2004  
Rig Out: 07:30 March 15, 2004 (7.75hr rig time)

**Hole Condition:** Good

**Circulations:** 1.5hr after TD and 1.5hr after wiper

**Wiper Trips:** TD to 850m

### LOGGING SEQUENCE

**Run #1:** STI / SpeD / CNS / Pe / GR / MRT / CAL  
**Interval:** TD to surface casing (MRT 1300m to TD)

**Run #2:** BCS / UGR / CAL  
**Interval:** TD to surface casing

**REMARKS:** No problems getting logging tools to bottom for Run #1. On bottom with logging Run #1 @ 01:30 March 15, 2004

## Bit Record & Casing Summary

### Bit Record

Bit #	Make	Type	Size	In (m)	Out (m)	Meters (m)	Hours	ROP (m/hr)	CONDITION
1A	Smith	GFX1C	311mm	0	98	98	7.00	14.00	9 - 9 - WT - 1mm - BHA
2A	Hughes	CH-14	311mm	98	306	208	9.50	21.89	4 - 4 - WT
3A		S33SF	311mm	306	430	124	3.75	33.07	2 - 2 - WT - 1mm - TD
1	Varel	MKS55	200mm	430	639	209	8.00	26.13	1 - 1 - WT - 0mm - LC
1RR	Varel	MKS55	200mm	639	684	45	1.25	36.00	1 - 1 - WT - 0mm - LC
1RR	Varel	MKS55	200mm	684	852	168	7.00	24.00	1 - 1 - WT - 0mm - LC
1RR	Varel	MKS55	200mm	852	1454	602	33.00	18.24	1 - 2 - WT - 1mm - TD

### Casing / Cement Summary

Type	Casing Size	Hole Size	Landed	Total Joints	Remarks
Surface	219.1mm	311mm	430.0m	32	32 joints of 219.1mm 35.72kg/m, J-55, ST&C new Camanch casing ran. Cemented with Sanjel 32t of 0:1:0 Class G + 2% CaCl2 with density 1901 kg/m <sup>3</sup> . Approximately 0.5m <sup>3</sup> of good returns, float OK, plug down @ 10:10 March 9, 2004.
Production	139.7mm	200mm	1454m	109	109 joints of 139.7mm 20.83kg/m, J-55, 8RD ST&C new Ipsco casing ran. Cemented with Sanjel with 28.5t Thixlite with 1% SMS for lead. Tail cement 3.5t Expandomix LWL with 0.1% CFL-3 and 0.2% LTR and 0.2% SPC-11. Float held. 5.0m <sup>3</sup> good returns. Plug down 05:00 on March 16, 2004.

## Deviation Surveys

Depth Meters	Inclination Degrees	Azimuth Degrees	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m	Build Rate /30m	Turn Rate /30m
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THIS WELL IS A VERTICAL WELL

32	0.50
59	0.50
115	0.50
170	0.25
229	1.00
287	2.00
326	1.00
384	1.00
417	1.25
483	1.00
592	0.25
698	2.00
746	1.00
842	0.25
958	0.25
1064	0.25
1170	0.75
1276	0.50
1379	0.50
1446	0.75

## Daily Drilling Summary

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\* note that operations are as reported from 00:00 to 23:59 on the date shown

DATE	DEPTH @ 23:59	PROGRESS	OPERATIONS LAST 24 HOURS
Mar 6	0	0	Move to location. Spot and level rig and buildings, raise derrick, rig to spud.
Mar 7	111	111	Rig up. Pre-spud and safety meeting. Spud well @ 06:30 March 7, 2004. Drill ahead with Bit #1A 311mm surface hole with required rig services and surveys to 98m. Bit trip for poor ROP. RIH with new BHA with Bit #2A. Drill from 98m to 111m.
Mar 8	430	319	Drill 311mm surface hole with Bit #2A from 111m to 306mm with required deviation surveys and rig service. Bit trip for poor ROP. RIH with Bit #3A, work mud rings, ream. Drill from 306m to 421m. Wiper trip. Drill to 430m surface TD. Circulate and condition mud for running casing. Condition hole and circulate. Hoist to run casing.
Mar 9	430	0	Run 32 joints 219.1mm Camanch surface casing. Circulate casing. Cement with Sanjel. Plug down 10:10 March 9, 2004. WOC. Cut casing, weld on bowl. Nipple up BOPs. Test BOPs, pressure test manifold, valves, HCR, rams, etc., and repair rig.
Mar 10	639	209	RIH with Bit #1, circulate, drill cement, float and shoe. Drill out at 04:00. Drill ahead 200mm main hole with required rig service and surveys from 430m to 439m. Leak off test. Drill ahead from 439m to 621m. Partial losses at 583m. Lost circulation 15m <sup>3</sup> in 10min @ 621m. Rebuild volume and prepare for cement plugs. Run cement plug #1. WOC.
Mar 11	684	45	WOC. RIH tag cement @ 541m. POOH and make up new BHA with Bit #1RR. Drill out plug. Drill ahead 200mm main hole with losses to 684m. POOH with flow checks. Lay down BHA, RIH open ended to run cement plug #2. Drop plug #2. POOH and WOC. Run in, tag cement @ 487m. POOH, make up BHA. RIH with Bit #1RR. Drill out plug.

## Daily Drilling Summary

Mar 12	865	181	Drill ahead 200mm main hole to with required rig service and directional surveys from 684m to 852m. POOH with flow checks to run plug #3. Run cement plug #3. RIH, tag cement @ 545m. POOH, make up BHA with Bit #1RR, RIH, drill out plug. Drill ahead from 852m to 865m.
Mar 13	1374	509	Drill ahead 200mm main hole with required rig service and directional surveys from 865m to 1374m.
Mar 14	1454	80	Drill 200mm main hole from 1374m to 1454m TD @ 15:20. Circulate and condition hole for logging. Wiper trip to 850m. Circulate, POOH for wireline logging.
Mar 15	1454	0	Rig in Precision Wireline. Log Run #1. Rig out loggers. RIH to condition hole for casing. POOH. Rig for casing. Ran 114 joints 114.3mm production casing. Circulate casing, rig for cementing.
Mar 16	1454	0	Rig for cement. Cement with Sanjel. Plug down 05:00. Tear out BOPs, set casing slips. Tear out rig. Rig release 12:00 March 16, 2004.

## Formation Tops

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**Kelly Bushing Elevation:** 758.82m

Formation	Sample (m)	Logger (m)	Elevation (m)
Wabamun	533.0	533.0	+225.82
Fort Simpson	723.0	722.0	+ 36.82
Twin Falls	835.0	835.0	- 76.18
<b>Slave Point *</b>	1345.6	1345.6	- 586.78
F4 Marker	1386.5	1386.5	- 627.68
Watt Mountain	1393.0	1393.0	- 634.18
Sulphur Point LS	1399.5	1397.3	- 638.48
<b>Sulphur Point DOL **</b>	1413.5	1411.2	- 652.38
Muskeg	1423.5	1423.5	- 664.68
Total Depth	1454.0	1454.0	- 695.18

*\*\*Primary Zones of Interest*

*\* Secondary Zones of Interest*

## Sample Descriptions

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1305-1325 SHALE 85%, 1) medium gray, gray to gray green, very calcareous, grading to shaly limestone, dull to micromicaceous in part, splintery to blocky, sub fissile to firm, smooth to waxy texture in part, trace pyrite, 2) dark brown to black, micromicaceous in part, blocky, in part rugose, bituminous in part?, scattered pyrite crystal clusters, LIMESTONE 15%, off white to light gray, tan, cryptocrystalline to predominantly microcrystalline, argillaceous mudstone, lumpy, local disseminated pyrite, tight, no show

1325-1340 SHALE 85%, 1) medium gray, gray to gray green, very calcareous, grading to shaly limestone, dull to micromicaceous in part, splintery to blocky, sub fissile to firm, smooth to waxy texture in part, trace pyrite, 2) dark brown to black, micromicaceous in part, blocky, in part rugose, bituminous in part?, scattered pyrite crystal clusters, LIMESTONE 15%, off white to light gray, tan, cryptocrystalline to predominantly microcrystalline, argillaceous mudstone, lumpy, local disseminated pyrite, tight, no show

1340-1345 SHALE 75%, as above, LIMESTONE 25%, as above, scattered fossil debris including Ostracods, Crinoids, and cubic pyrite crystals

### SLAVE POINT @ 1345.6m

1345-1350 LIMESTONE 40%, cream to light brown, brown, mottled, cryptocrystalline to predominantly microcrystalline, mudstone to wackestone, in part chalky, argillaceous in part, flaky to blocky, scattered pyrite nodules and locally disseminated pyrite crystals, dense with trace poor intercrystalline porosity, inferred minor earthy porosity, tight, pale yellow fluorescence, questionable watery greenish cut, SHALE 60%, as above, (cavings)

1350-1360 LIMESTONE 100%, cream to tan to brown, mottled in part, becoming lighter, argillaceous mudstone to wackestone, massive, cryptocrystalline to microcrystalline, occasional very fine crystalline, in part chalky, argillaceous in part, flaky to blocky, soft to firm, scattered pyrite, trace sparry calcite infill, trace poor porosity, slightly petroliferous odor, spot pale yellow to yellow fluorescence, weak slow greenish white watery cut

## Sample Descriptions

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1360-1370 LIMESTONE 100%, cream to tan to brown, mottled in part, argillaceous mudstone to wackestone, massive, cryptocrystalline to microcrystalline, occasional floating brown fine to medium crystals in light mud matrix, in part chalky, argillaceous in part, flaky to blocky, soft to firm, rare pyrite, trace poor earthy porosity, slightly petrolierous and oily odor, common pale yellow to yellow fluorescence, slow greenish white watery to milky cut

1370-1375 LIMESTONE 100%, cream to tan, slightly gray, occasional mottled brown, argillaceous mudstone to wackestone, cryptocrystalline to microcrystalline, chalky, flaky to blocky, soft, bituminous partings, tight with streaks of assumed earthy porosity, pale yellow green fluorescence, weak green cut

1375-1385 LIMESTONE 95%, cream to light gray brown to brown, becoming darker and more gray downsection, mottled, argillaceous mudstone to wackestone, cryptocrystalline to very fine crystalline, flaky to lumpy to blocky, in part chalky, in part anhydritic, tight, rare poor porosity, spotty pale yellow to yellow fluorescence, weak greenish slow cut, minor ANHYDRITE 5%, light gray to tan, translucent to pearly lustre, microcrystalline

### F4 MARKER @ 1386.5m

1385-1390 DOLOMITE 75%, cream to light buff gray, microcrystalline, gritty sandy texture, slightly anhydritic, scattered poor pinpoint porosity, assumed earthy porosity, no shows, LIMESTONE 15%, as above, yellow fluorescence, no cut, ANHYDRITE 10%, off white to light brown, pearly, amorphous

1390-1395 LIMESTONE 95%, cream to brown to slightly gray brown, mottled, mudstone to wackestone, microcrystalline to very fine crystalline, soft, anhydritic, flaky to lumpy, tight, pale yellow fluorescence, no cut, ANHYDRITE 5%, white to tan, pearly to watery appearance, amorphous, soft, cryptocrystalline to microcrystalline

### WATT MOUNTAIN @ 1393.0m

### SULPHUR POINT LIMESTONE @ 1397.0m

## Sample Descriptions

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1395-1400 LIMESTONE 95%, off white to buff, mudstone, microcrystalline, dolomitic in part, lumpy, chalky, soft, tight, no show, SHALE 5%, light gray green to mint green, argillaceous, waxy, lumpy, soft, scattered disseminated pyrite, in part calcareous

1400-1405 LIMESTONE 100%, white to buff, mudstone, occasionally light brown, microcrystalline to very fine crystalline, lumpy, chalky, soft, assumed earthy porosity, gassy odor, questionable show

1405-1410 LIMESTONE 100%, white to buff, mudstone, occasionally light brown, microcrystalline to very fine crystalline, lumpy, chalky, soft, assumed earthy porosity, petroliferous odor, spotty pale green yellow fluorescence, weak green watery cut

### **SULPHUR POINT DOLOMITE @ 1413.5m**

1410-1415 LIMESTONE 80%, as above, DOLOMITE 20%, tan to light brown, microcrystalline to very fine crystalline packstone to grainstone, streaks of fair pinpoint / vug porosity, poor to fair intercrystalline porosity, scattered sparry calcite, predominantly sandy granular appearance, slightly petroliferous odor, dull yellow fluorescence, weak green gut

1415-1420 DOLOMITE 100%, tan to light brown, becoming coarser to medium crystalline, becoming darker brown, spotty dark brown oil stain, clear euhedral and subhedral dolomite crystals, local micro sucrosic texture, local good vug and intercrystalline porosity, strong petroliferous odor, slight oily sheen on sample, spotty yellow to bright yellow fluorescence, slow streaming greenish to yellow cut

1420-1425 DOLOMITE 100%, essentially as above, microcrystalline to medium crystalline, granular, streaks of good vug and intercrystalline porosity, common subhedral and euhedral crystalline growth, vugs and crystals have bitumen coating, petroliferous odor, yellow to bright yellow fluorescence, milky white yellow cut, minor ANHYDRITE

## Sample Descriptions

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### MUSKEG @ 1423.5m

1425-1430 ANHYDRITE 20%, white amorphous nodules, off white to tan, occasional light gray brown, pearly to watery lustre, cryptocrystalline, slightly dolomitic in part, dense, tight, DOLOMITE 80%, buff to light brown, trace spotty dark brown oil stain, microcrystalline to fine crystalline in part argillaceous grainstone, occasionally sucrosic, anhydritic in part, streaky poor intercrystalline porosity, pale yellow to yellow fluorescence, no show

1430-1435 DOLOMITE 50%, off white to tan to light brown, microcrystalline to occasional fine crystalline grainstone, sandy appearance, occasionally micro sucrosic, streaks of poor intercrystalline porosity, pale yellow fluorescence, weak green cut, ANHYDRITE 50%, white amorphous pearly nodules to off white to tan watery, dense, slightly dolomitic in part

1435-1445 ANHYDRITE 80%, as above, DOLOMITE 20%, off white to tan, microcrystalline to very fine crystalline grainstone, as above

1445-1450 DOLOMITE 50%, off white to tan to light brown, microcrystalline to occasional fine crystalline grainstone, sandy appearance, occasional sucrosic, streaks of poor intercrystalline porosity, scattered pale yellow fluorescence, very weak green cut, ANHYDRITE 50%, white amorphous pearly nodules to off white to tan watery, dense, slightly dolomitic in part, cryptocrystalline to microcrystalline

1450-1454 ANHYDRITE 70%, as above, DOLOMITE, 30%, as above, occasional poor intercrystalline porosity, trace pale yellow fluorescence, questionable cut

### TOTAL DEPTH @ 1454.0m



1310m, Twin Falls, 20X



1345m, Lwr Twin Falls, Ostracod & cubic pyrite



1350m, top of Slave Point, 20X



1360m, Slave Point, 20X



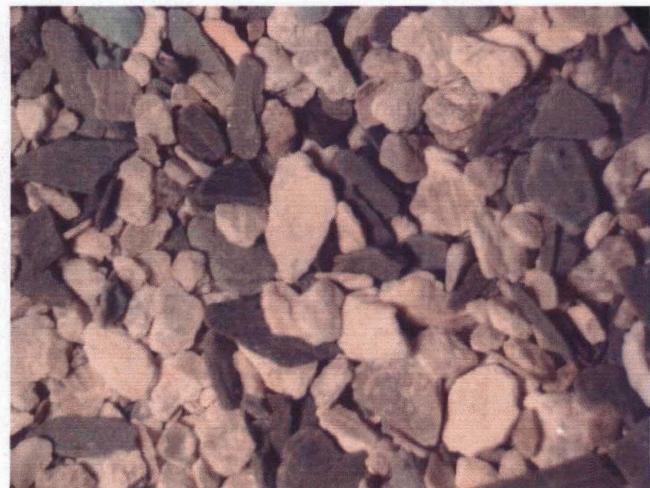
1360m, Slave Point, 60X



1365m, Slave Point, dark floating xls in light argillaceous matrix, 60X



1390m, F4 Dolomite Marker, 20X



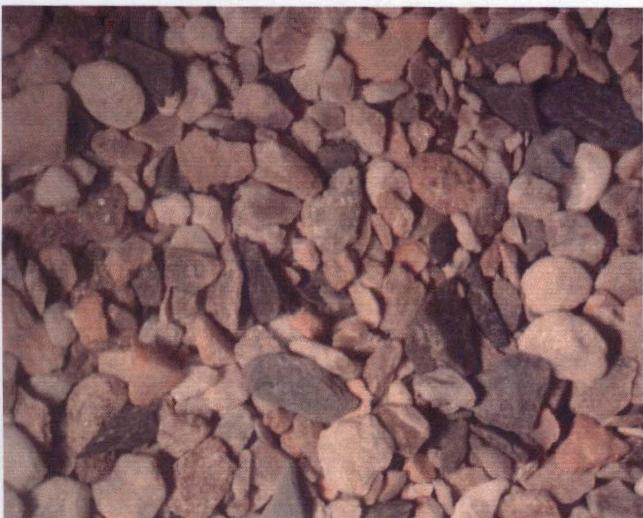
1405m, Slave Point Limestone, 20X



1420m, Sulphur Pt dol, med xl and vugs, 60X



1425m, Sulphur Point Dolomite, 60X



1445m Muskeg, 20X



1454m, Muskeg, Anhed, amorphous anhy, 60X



**Paramount**  
*resources ltd.*

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

**Well Name:** Para et al Cameron C-16

**Location:** Unit C Section 16 **Grid Area:** Lat 60° 10' N Long 117° 30' W

**Licence Number:** 2001

**Region:** Cameron Hills, NWT

**Spud Date:** Mar 7, 2004 @ 06:30

**Drilling Completed:** Mar 14, 2004 @ 15:20

**Surface Coordinates:** Latitude: 60° 05' 03.142" North

Longitude: 117° 32' 58.370" West

**Bottom Hole Coordinates:**

**Ground Elevation (m):** 754.22m

**K.B. Elevation (m):** 758.82m

**Logged Interval (m):** 1440m **To:** 1454m **Total Depth (m):** 1454m

**Formation:** Primary = Sulphur Pt DOL **Secondary:** Slave Point

**Type of Drilling Fluid:** Gel Chemical

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

#### 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

**Address:** [www.WellsiteGeologists.com](http://www.WellsiteGeologists.com)

[WellsiteGeologist@telus.net](mailto:WellsiteGeologist@telus.net)

(403) 234-7625

#### Comments

This well was drilled by Precision Drilling Rig #247.

Paramount AFE #03N410020.

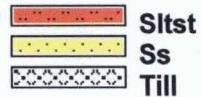
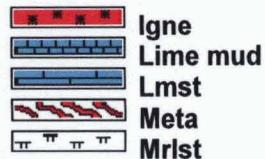
A Wellsite Gas Detection gas detector was run.

Logging program by Precision Wireline.

Run #1: STI-SP-MRT-SPED-CNT-UGR-CAL

Run#2: UGR-BCS-CAL

Neutron Porosity and Density Porosity curves presented on a dolomite scale.



## ROCK TYPES

## ACCESSORIES

## MINERAL

	Anhy
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Gyp
	Hvymin

K	Kaol
T	Marl
*	Minxl
S	Nodule
•	Phos
P	Pyr
田	Salt
■	Sandy
■■	Silt
■■■	Sil
S	Sulphur
▼	Tuff
Q	Quartz
MM	Mmica
mm	Micromica
Glau	Glau

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

	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom
<b>STRINGER</b>	
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst

	BS	Slstrg
	C	Ssstrg
	CX	
	B	Texture
	FX	Boundst
	GS	Chalky
	L	Cryxln
	MX	Earthy
	MS	Finexln
	PS	Grainst
	WS	Lithogr
		Microxln
		Mudst
		Packst
		Wackest

<b>E</b>	Earthy
<b>F</b>	Fenest
<b>X</b>	Fracture
<b>A</b>	Inter
<b>O</b>	Moldic
<b>P</b>	Organic
	Pinpoint

**Vuggy**

**SORTING**

**Well**

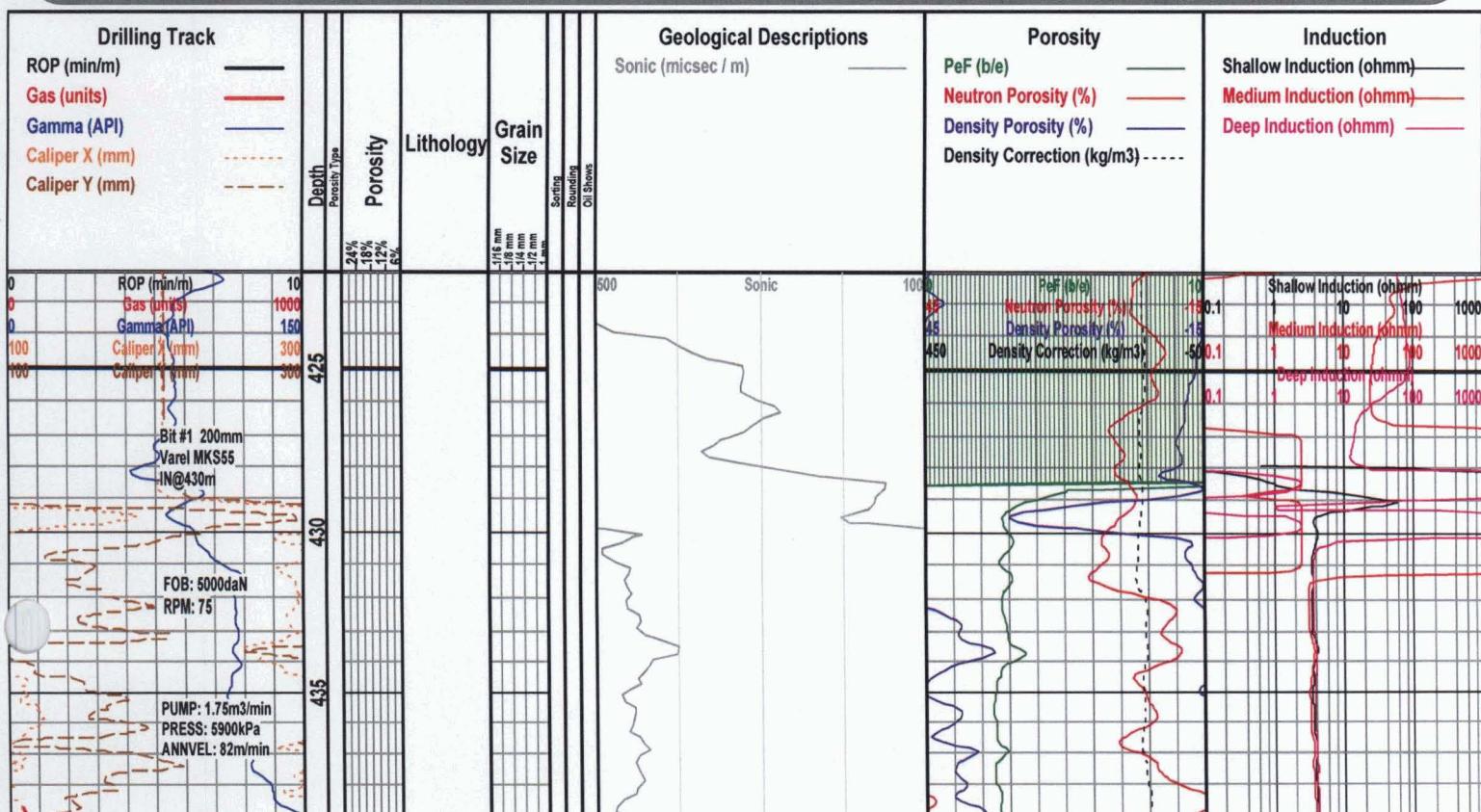
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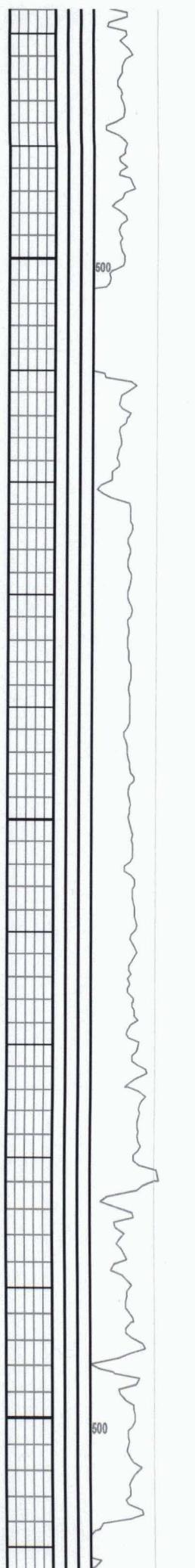
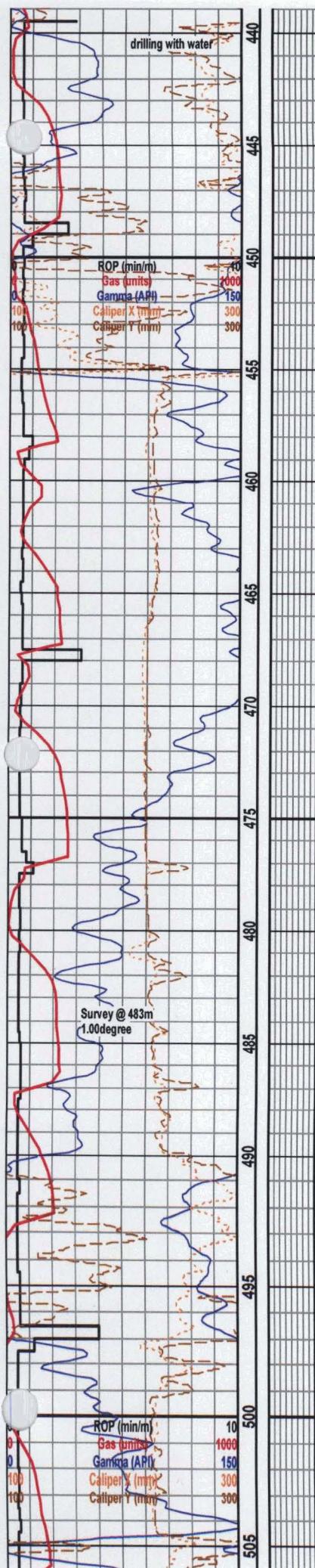
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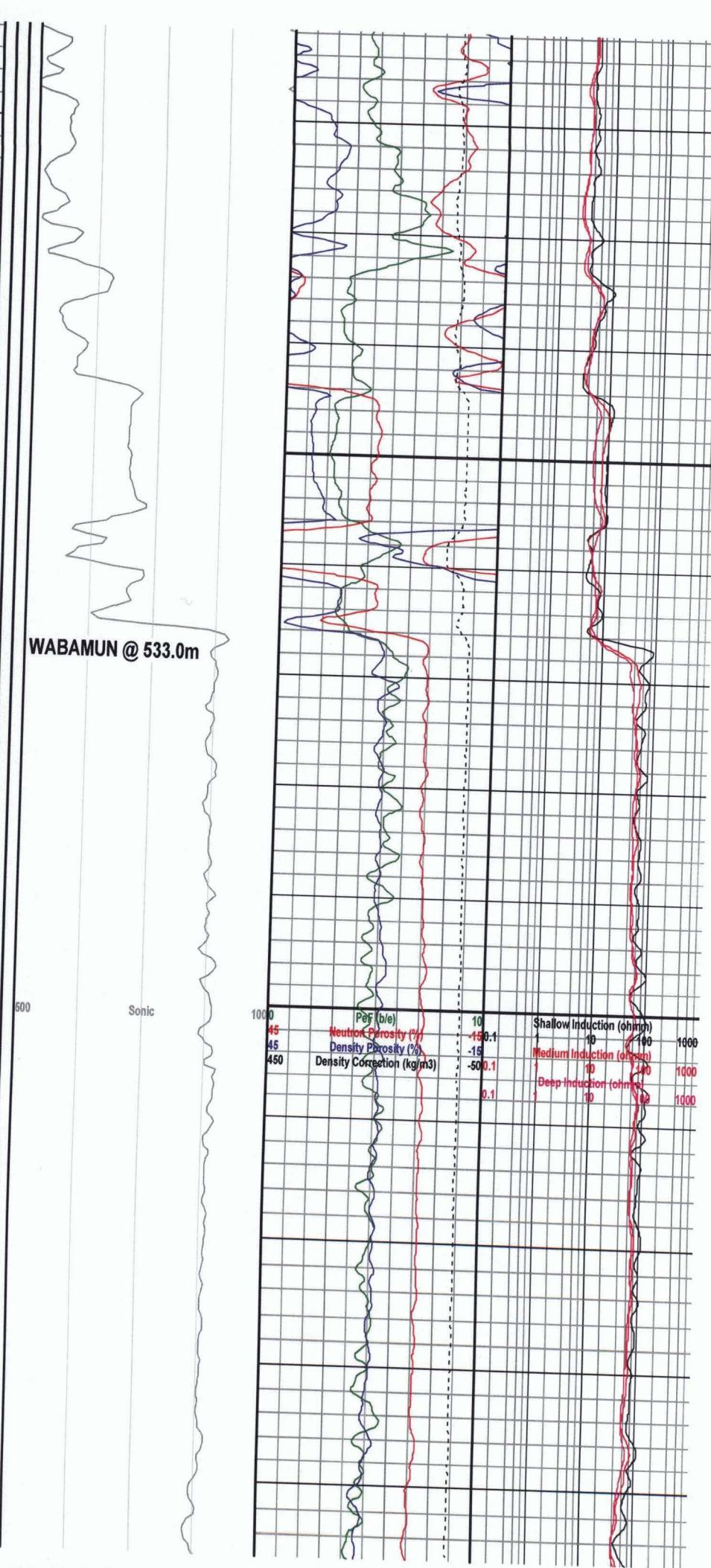
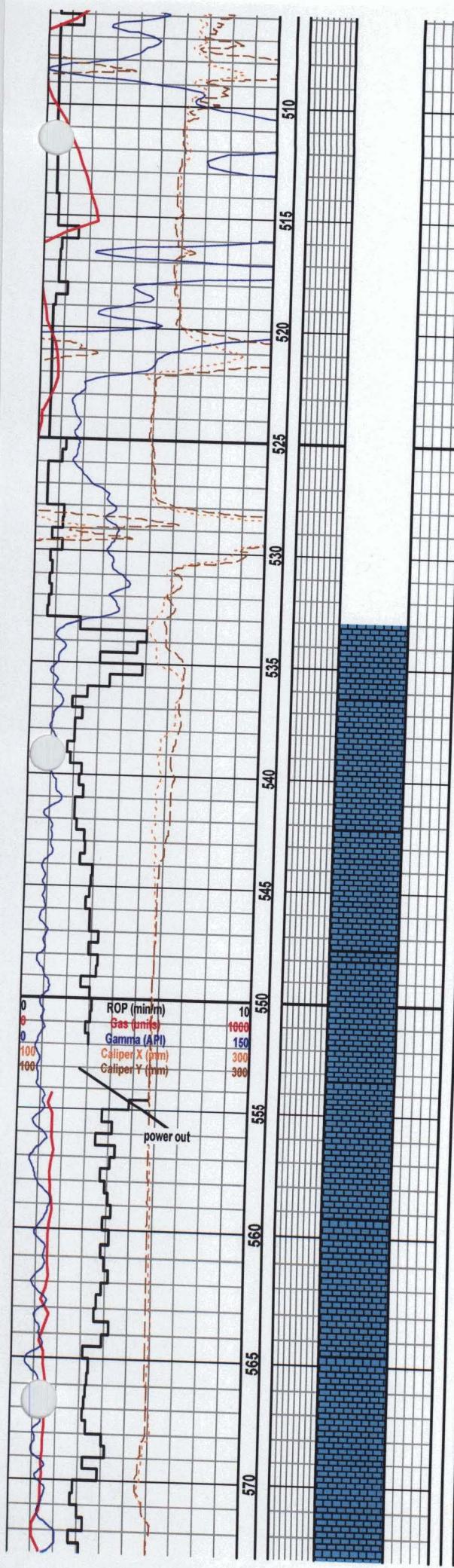
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<b>OIL SHOW</b>	
<input checked="" type="checkbox"/> E	Even

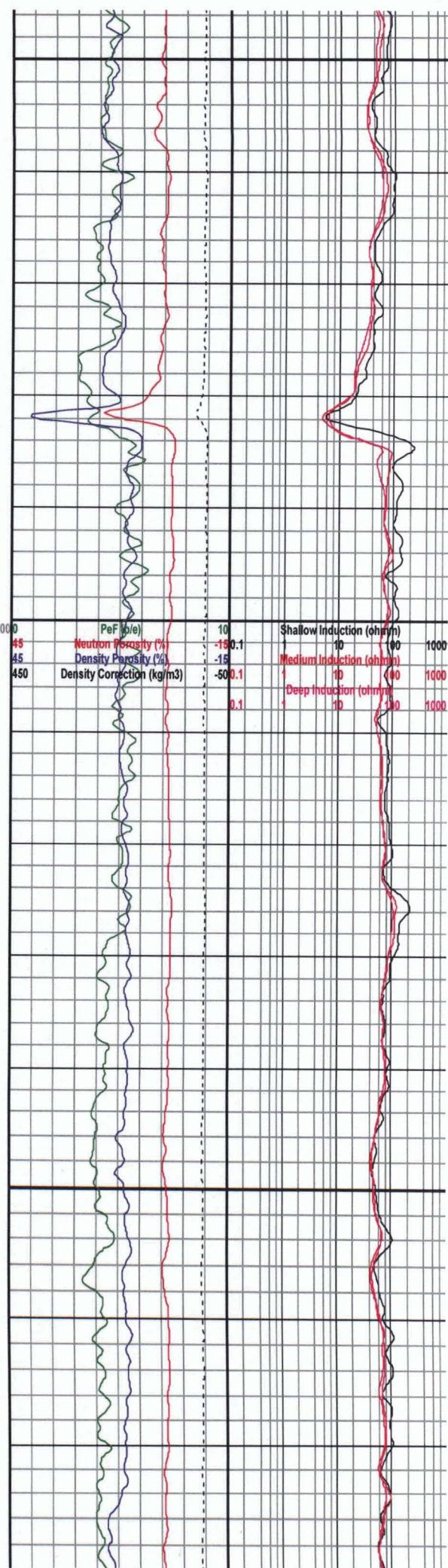
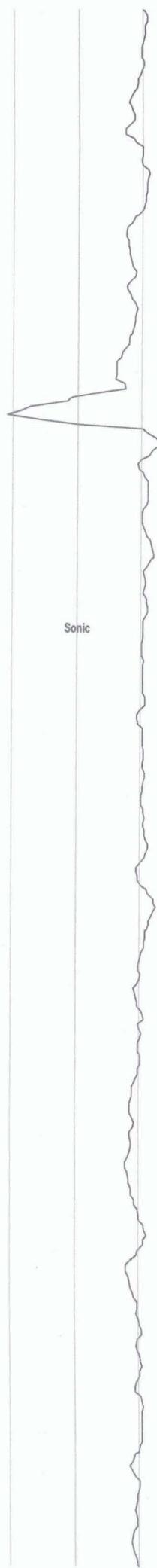
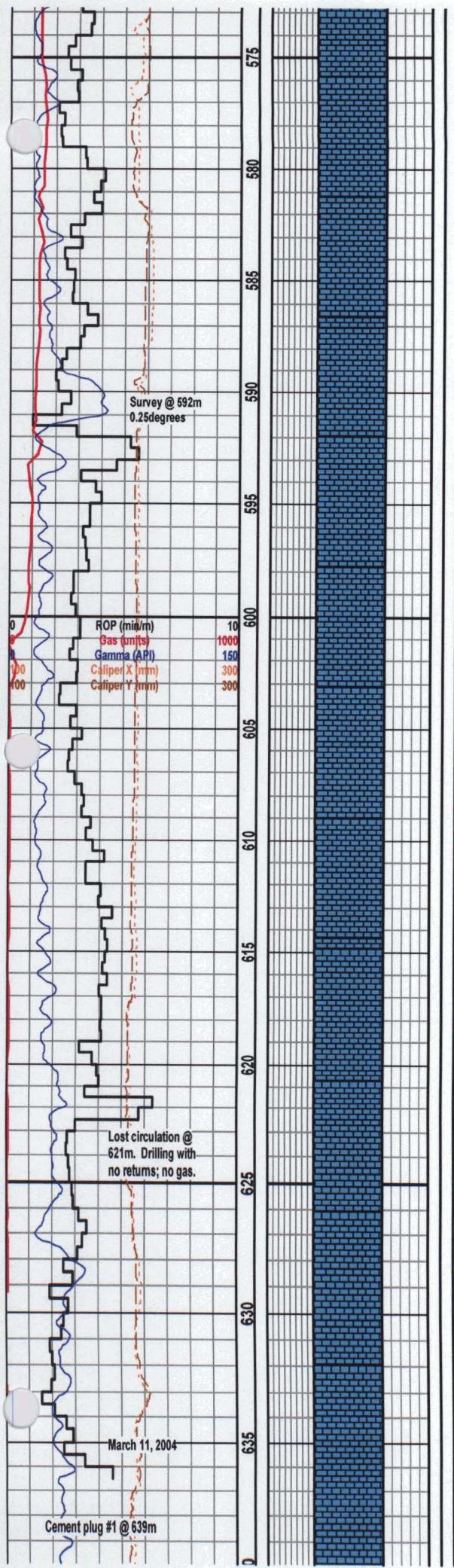
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Ques  
Dead  
  
INTERVAL  
Core  
Dst

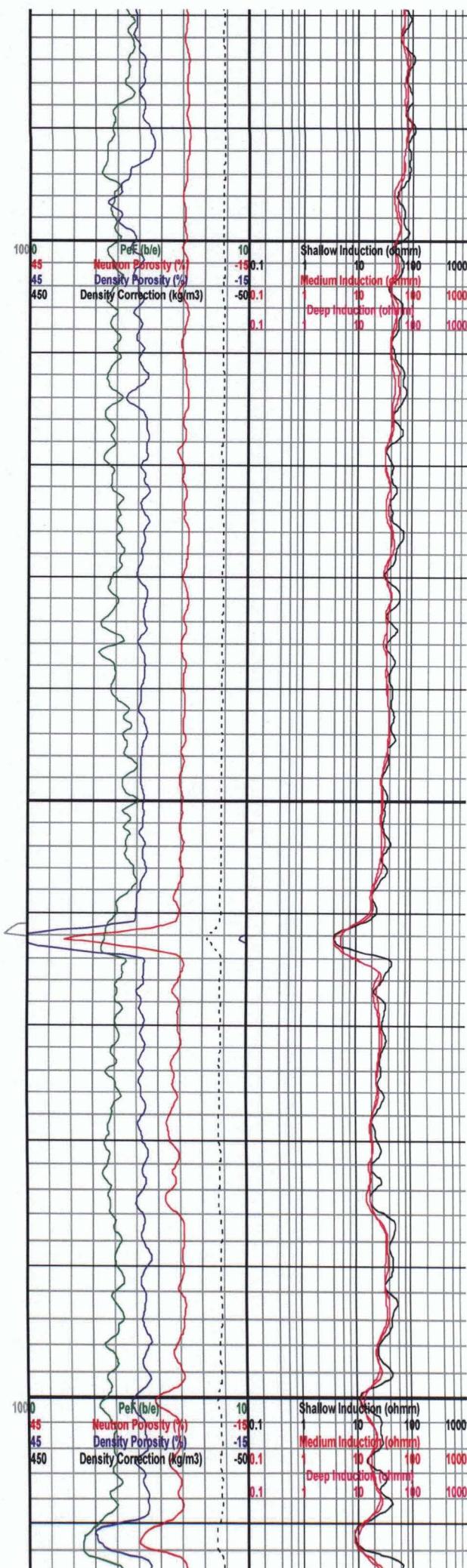
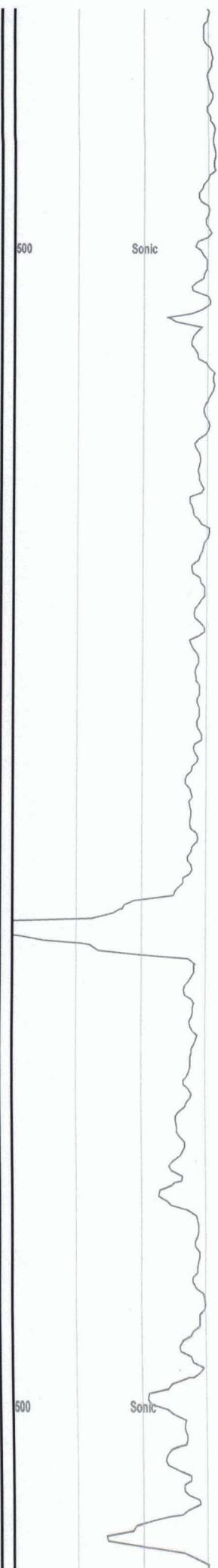
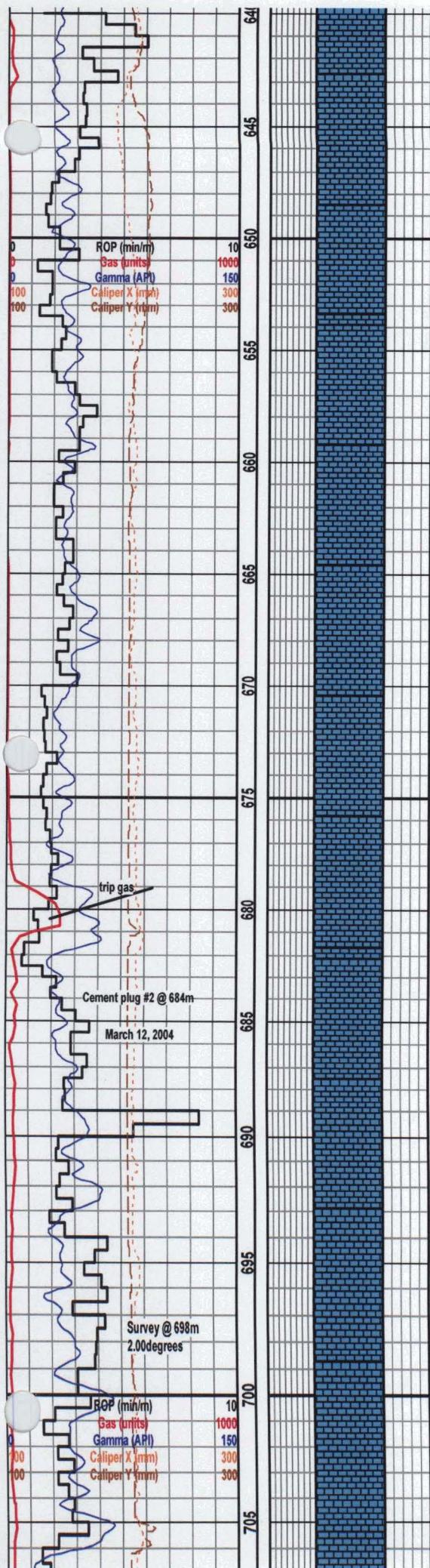
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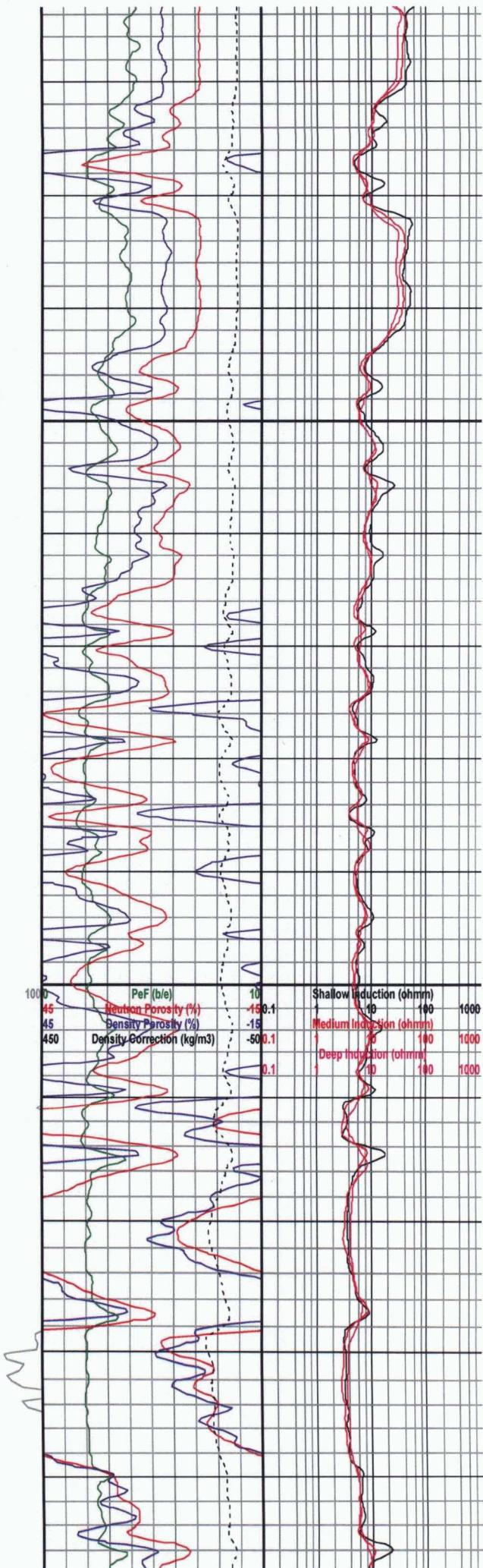
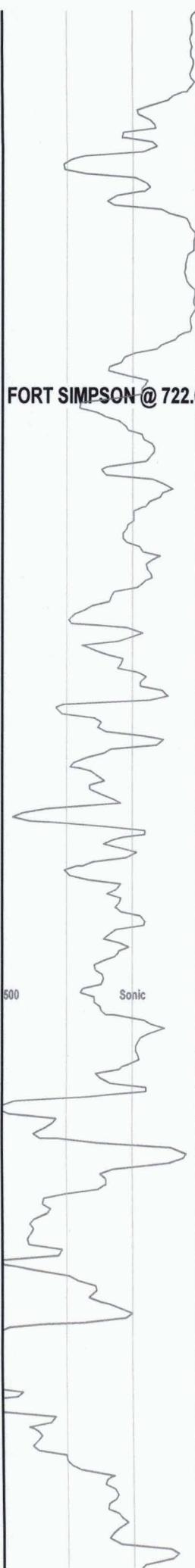
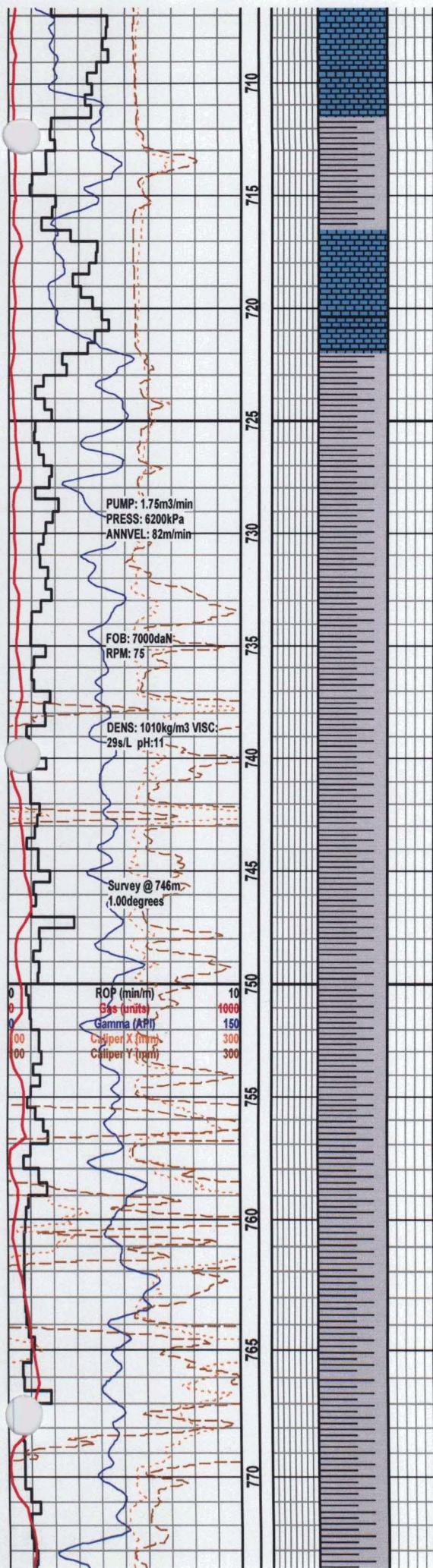


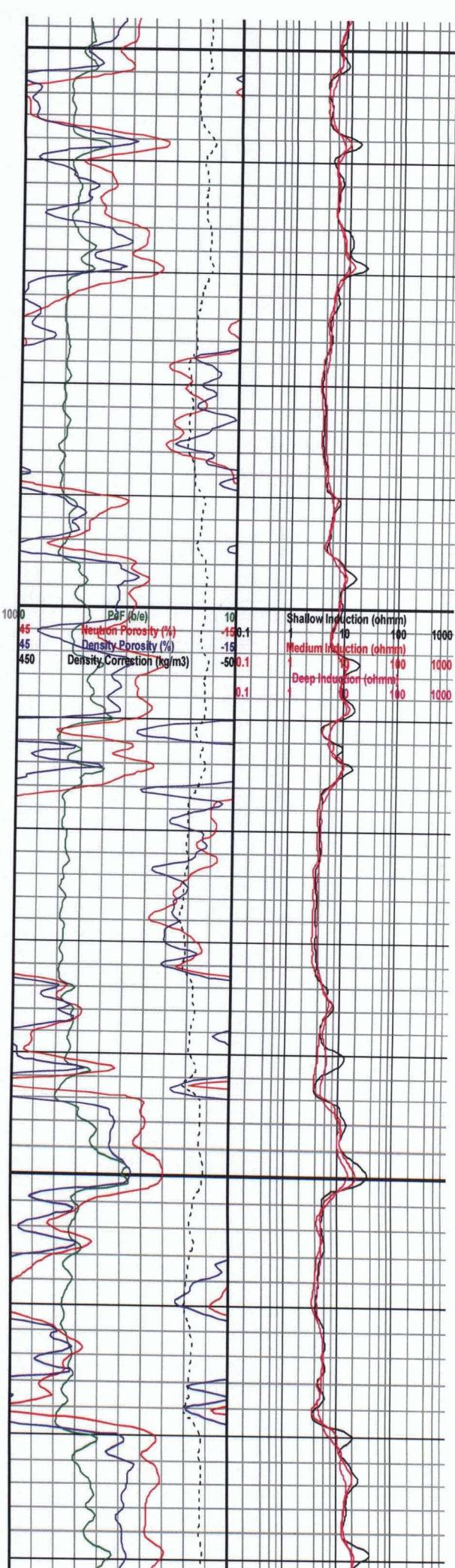
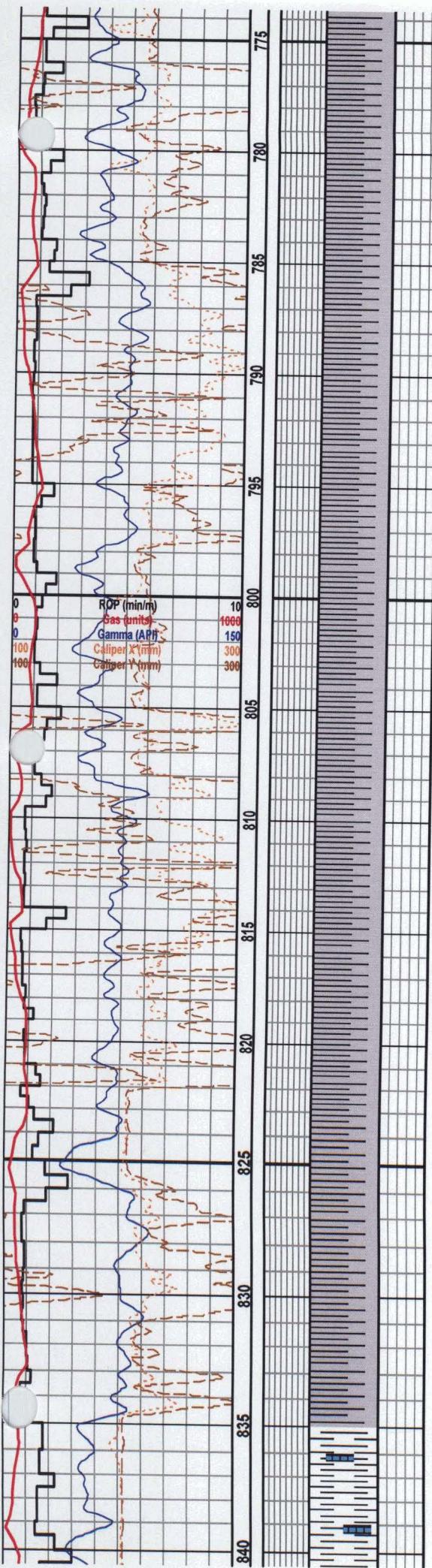


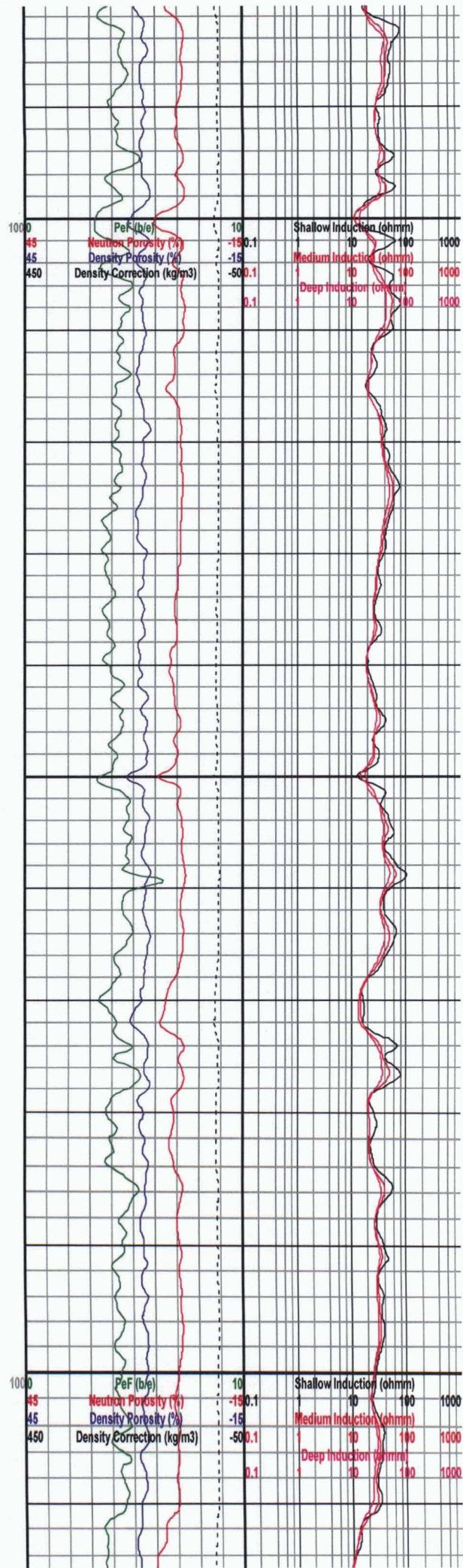
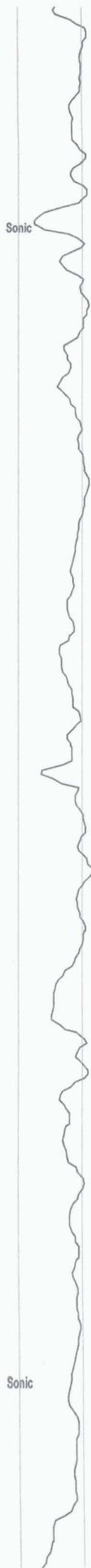
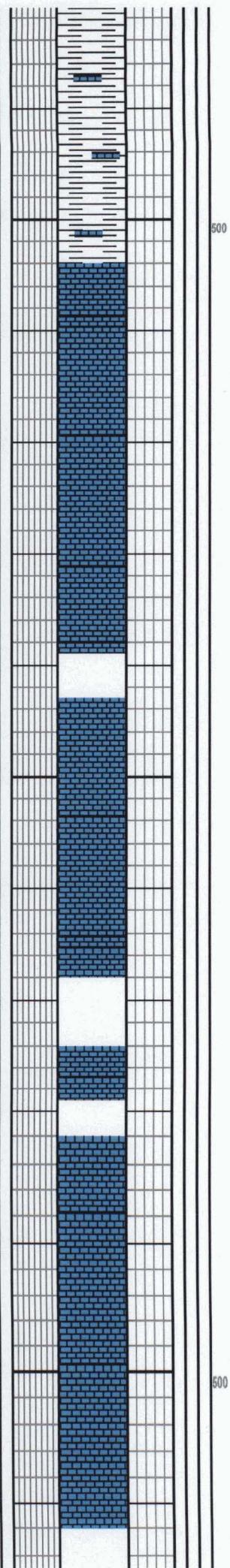
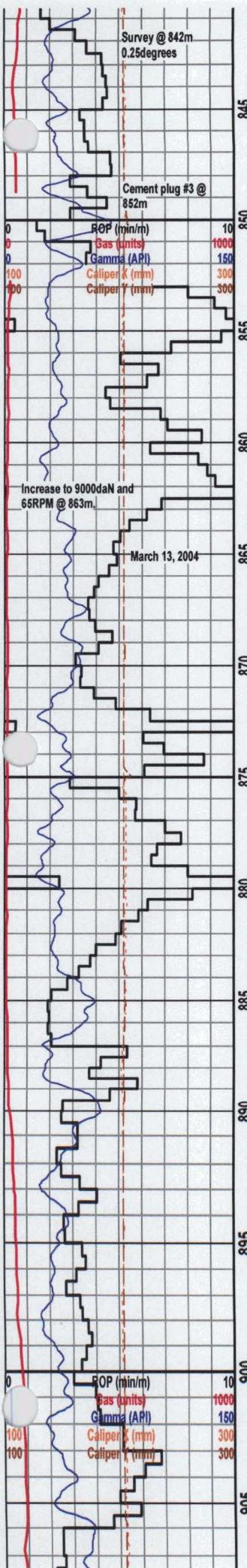


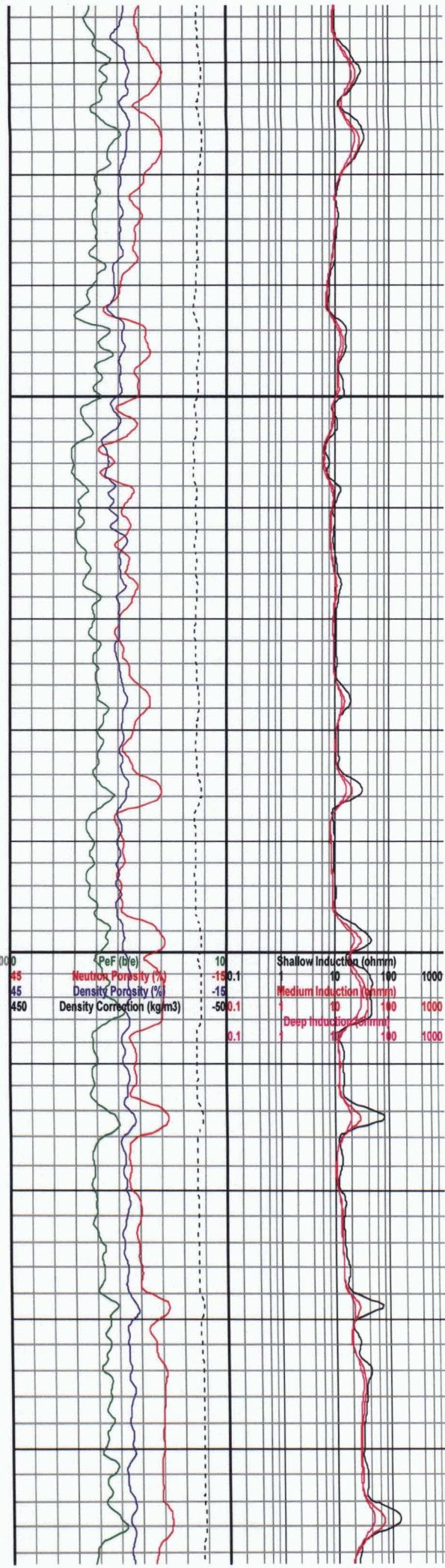
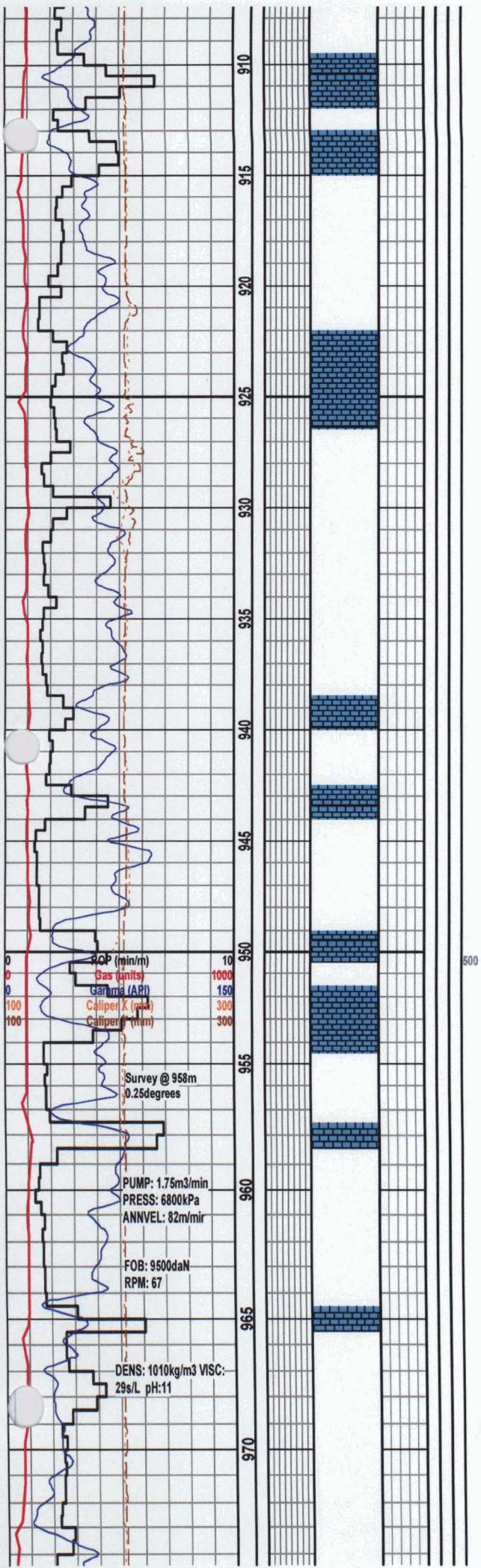


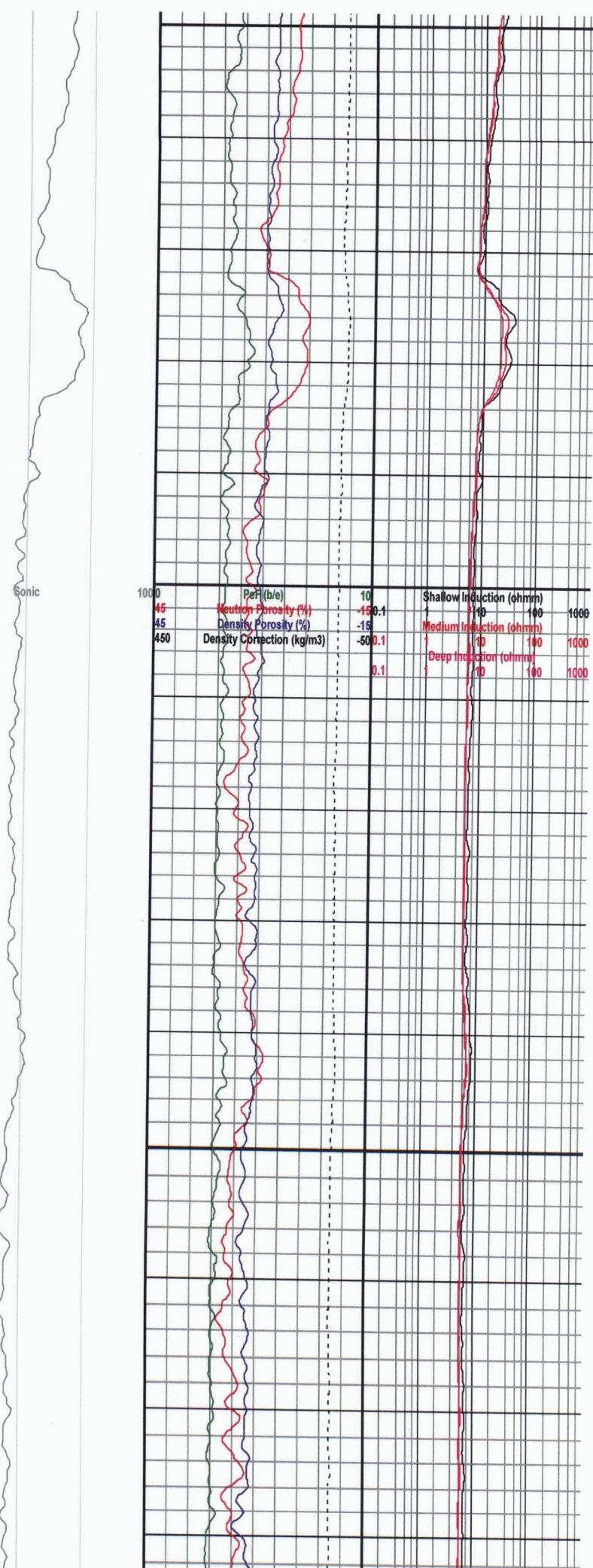
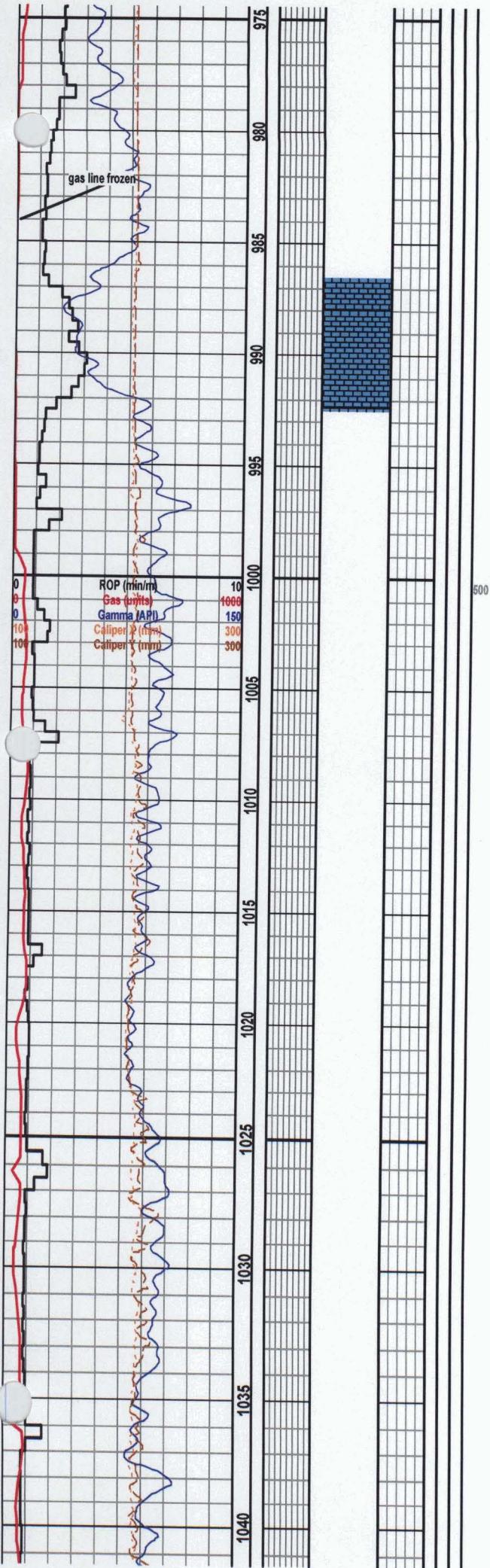


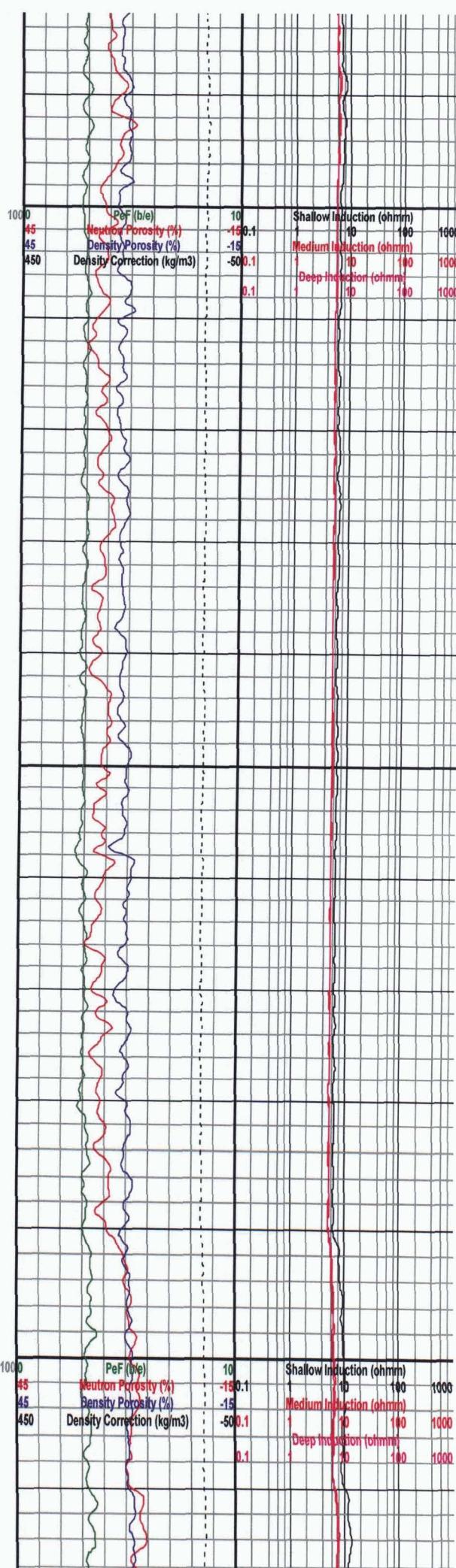
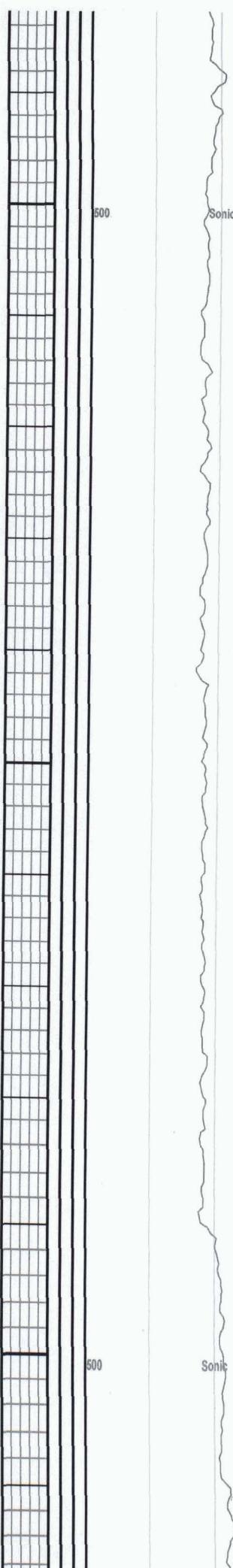
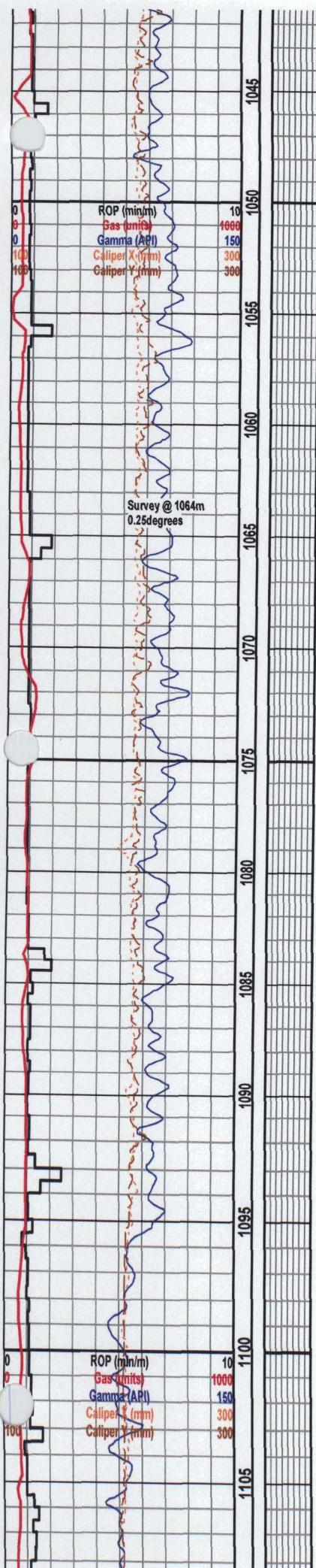


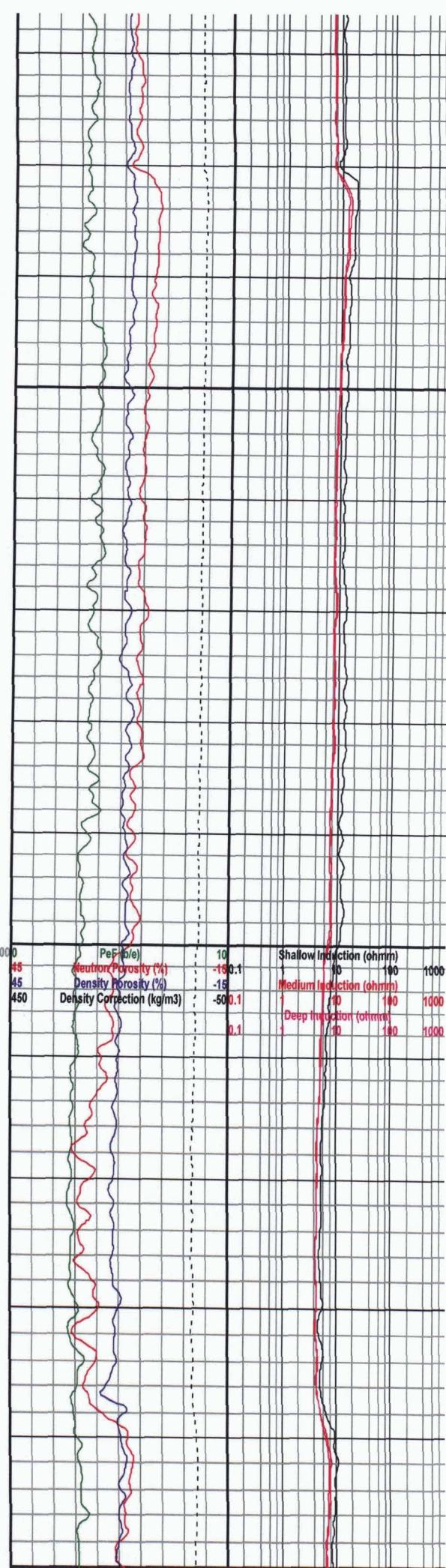
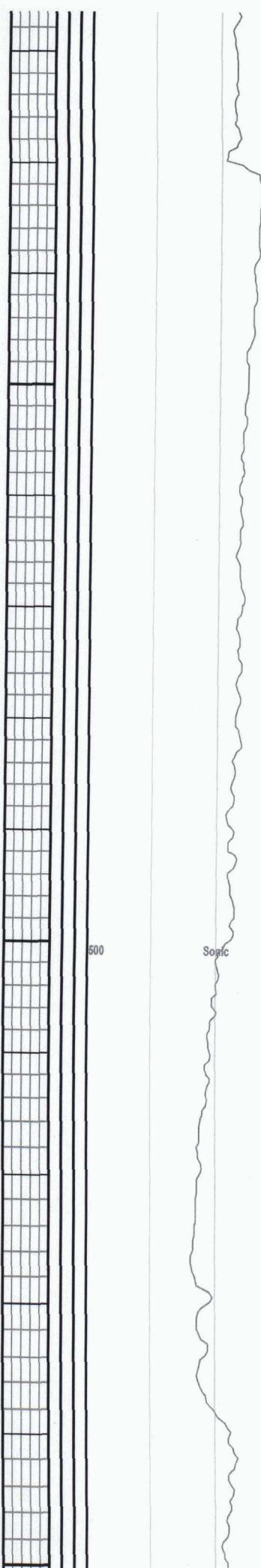
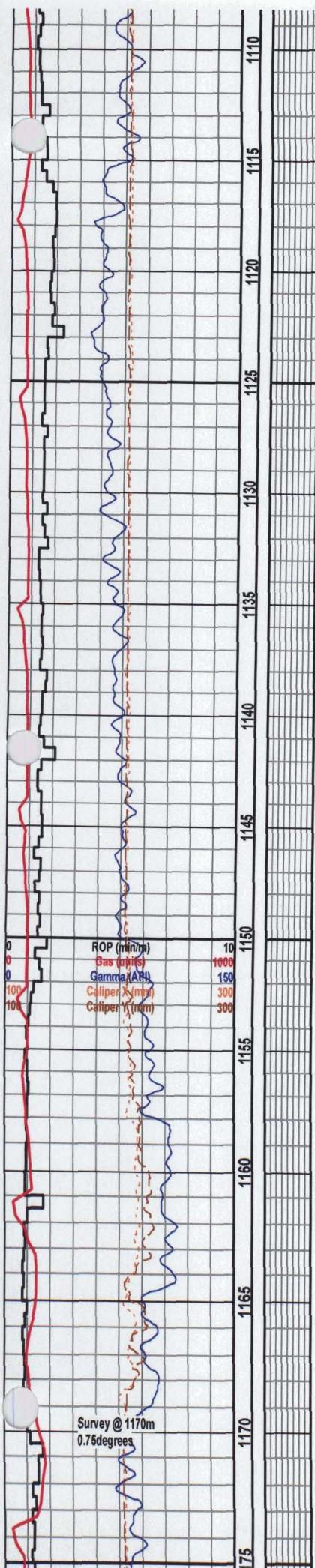


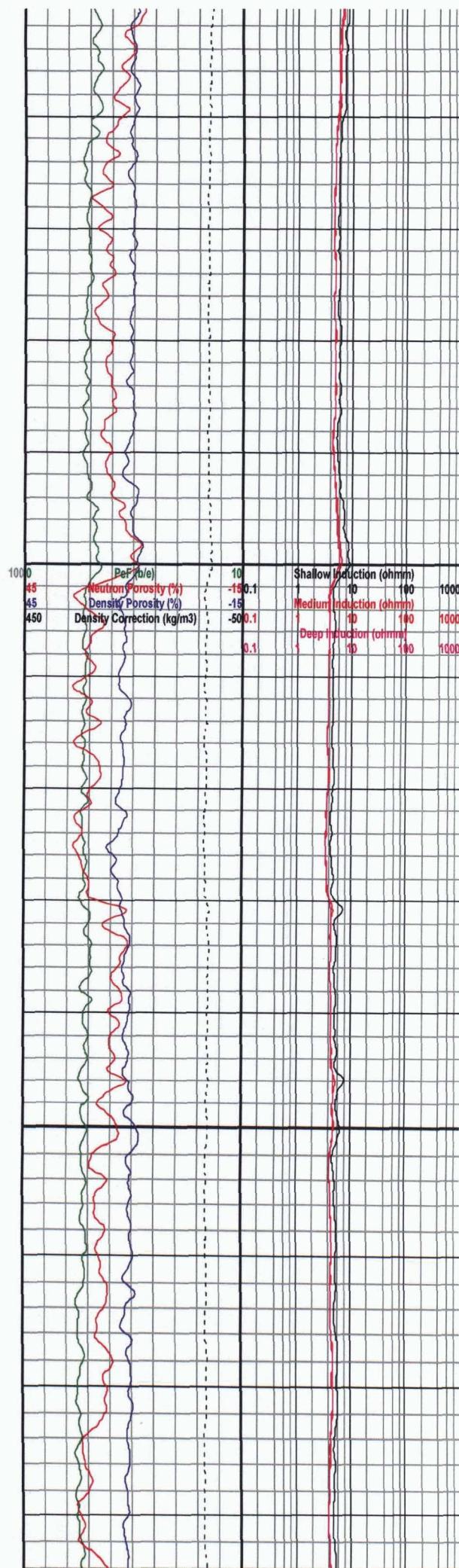
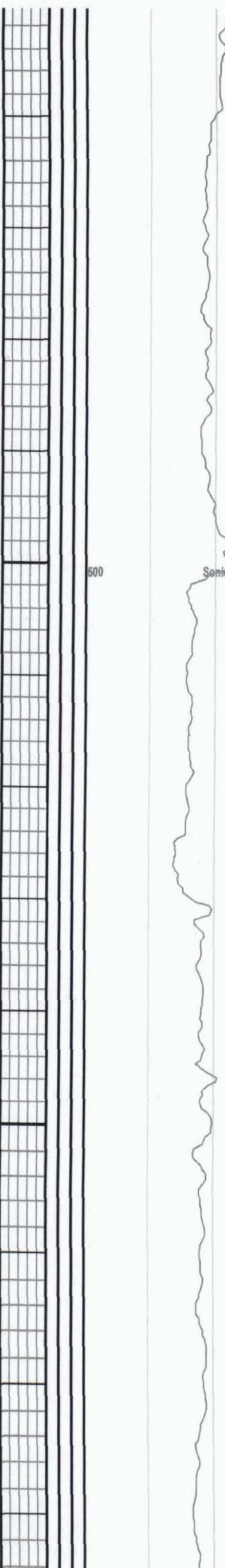
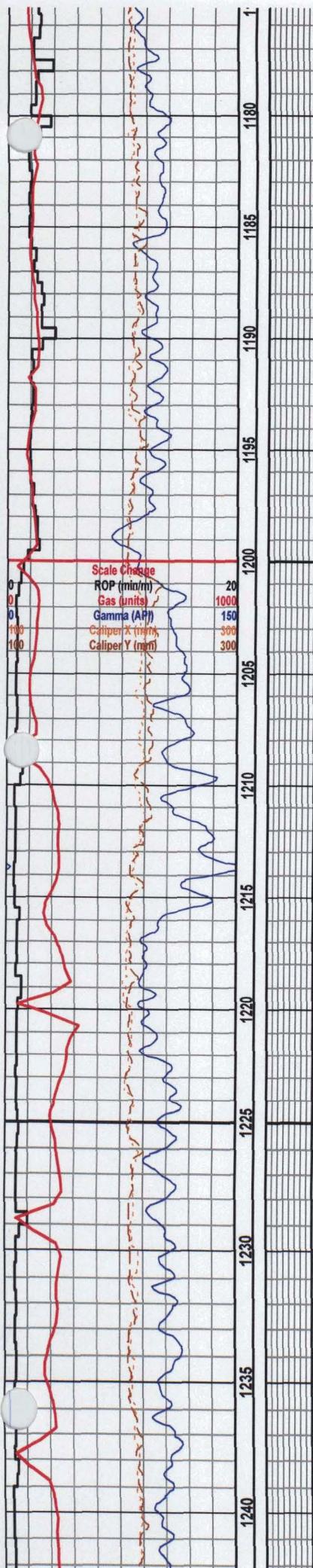


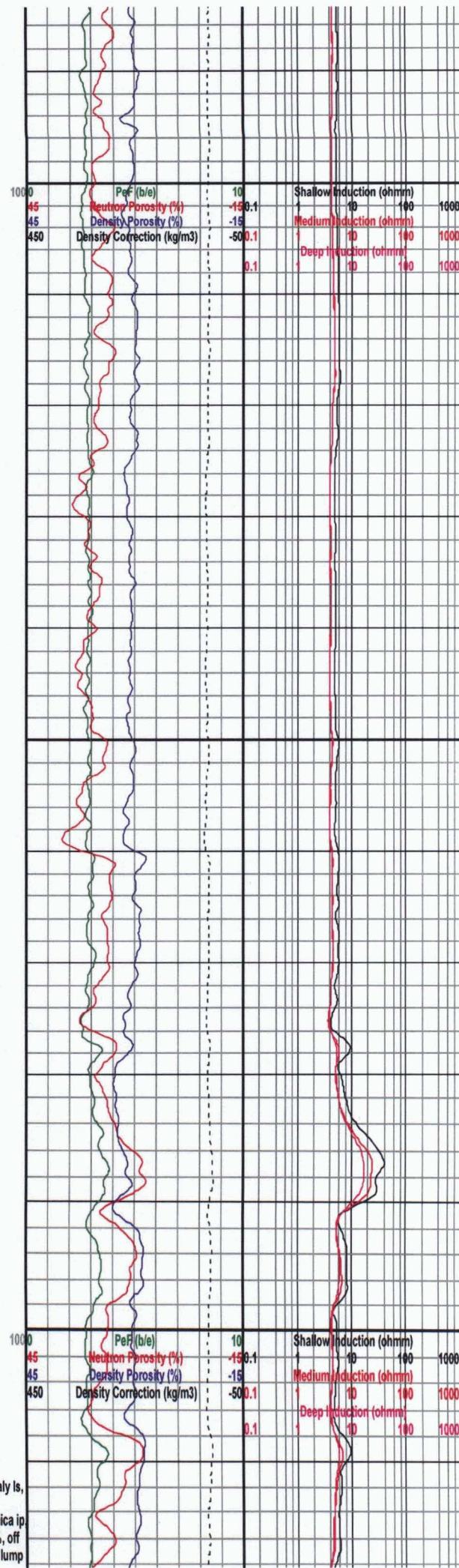
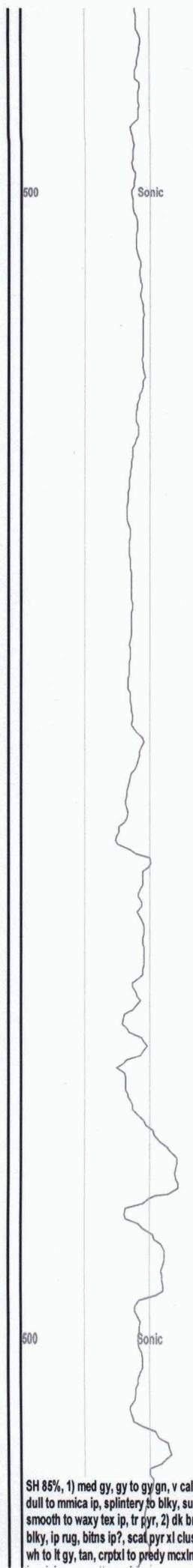
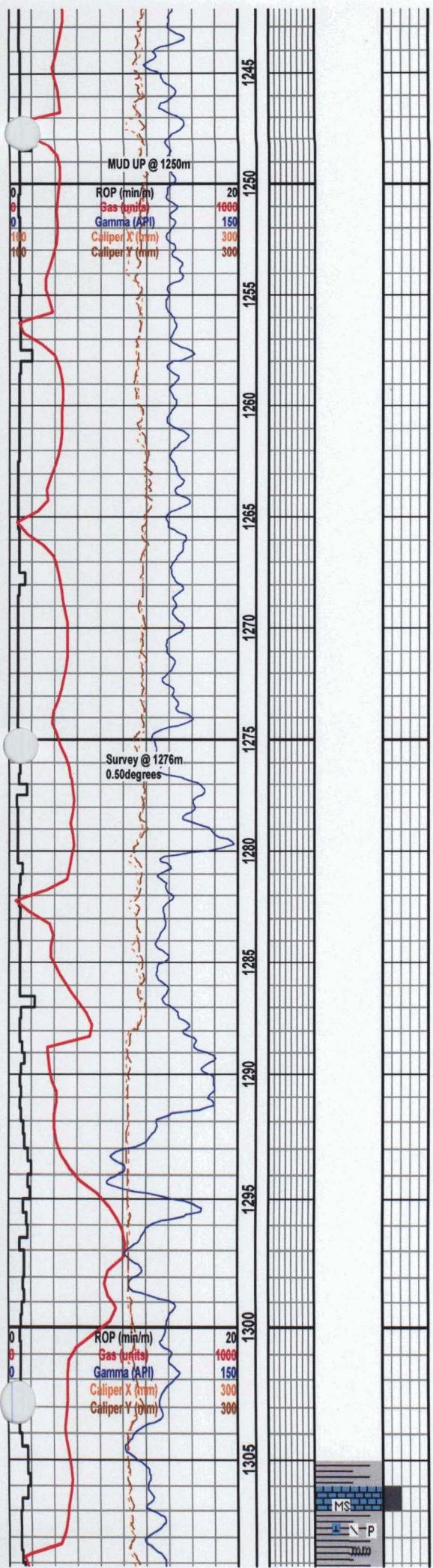


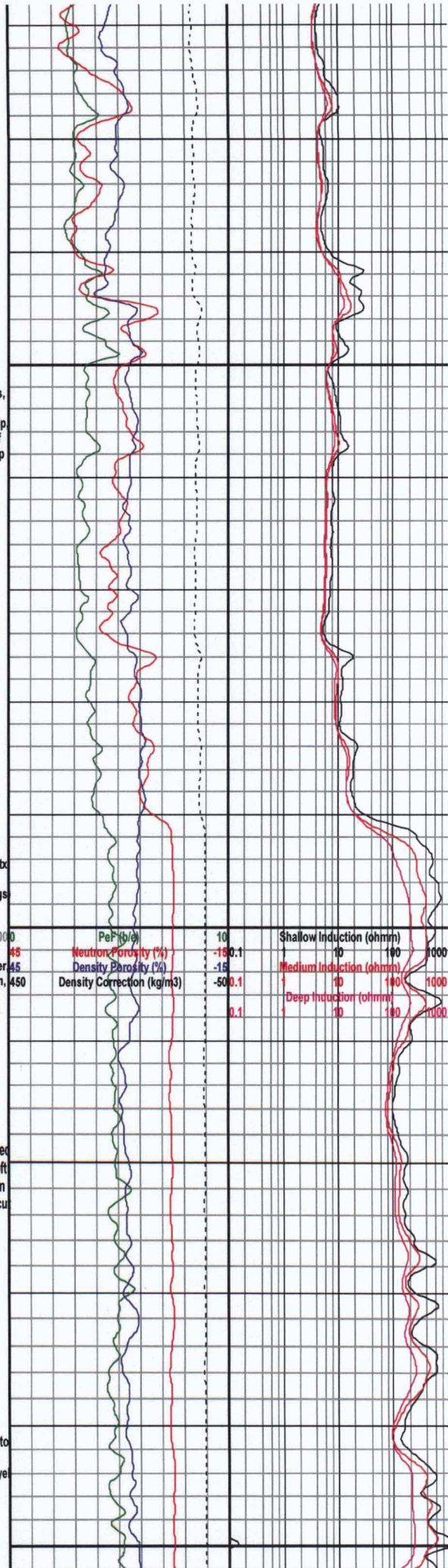
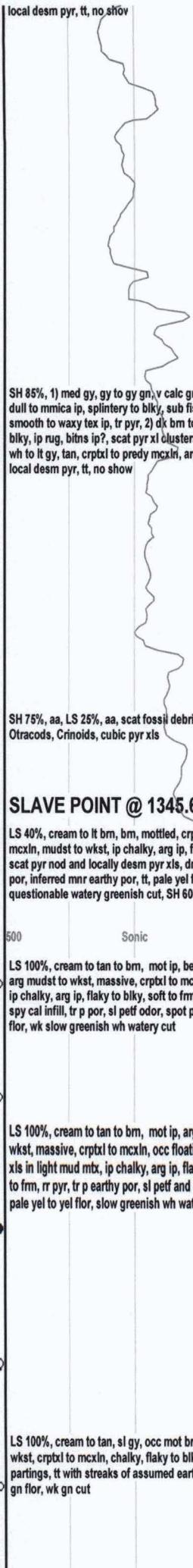
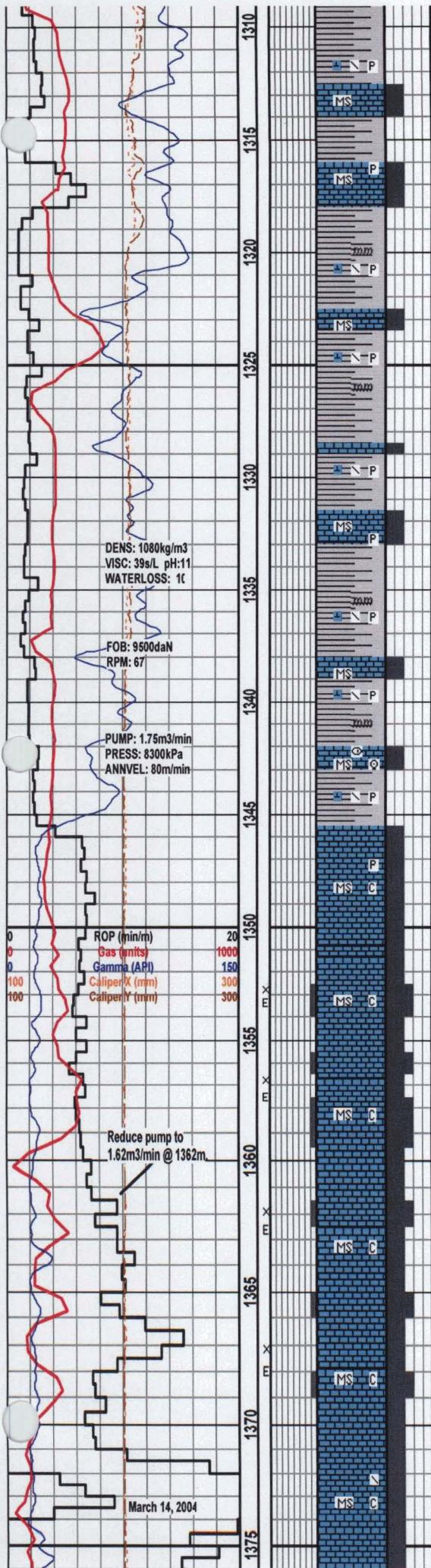


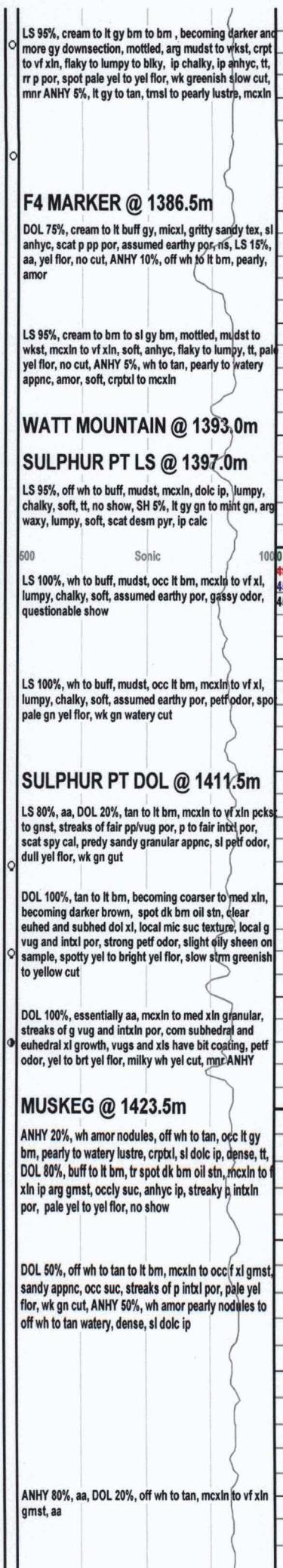
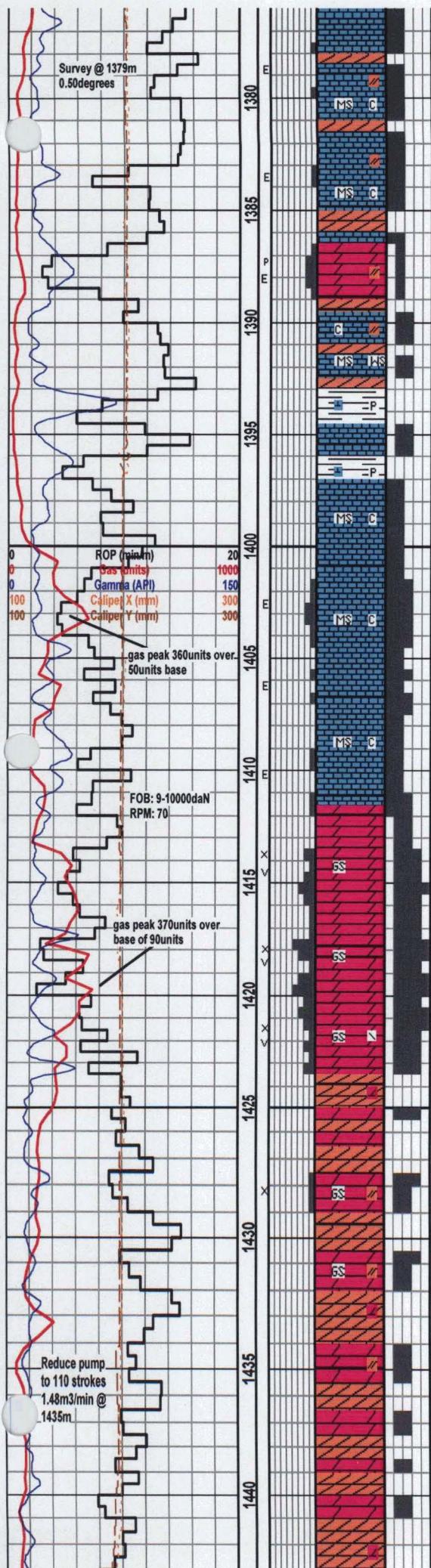


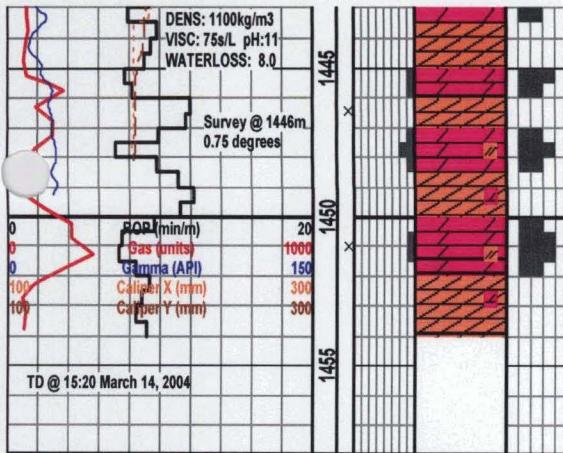








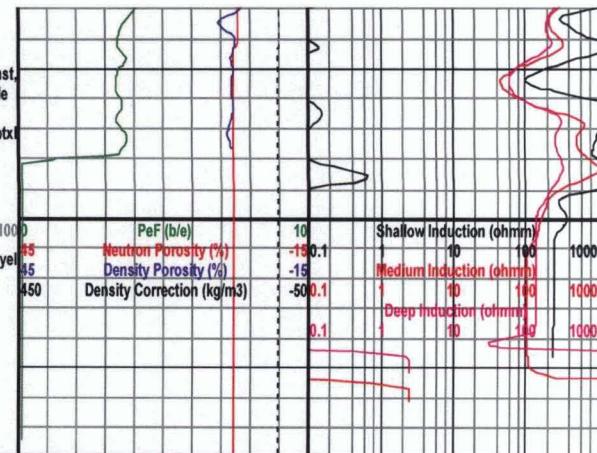


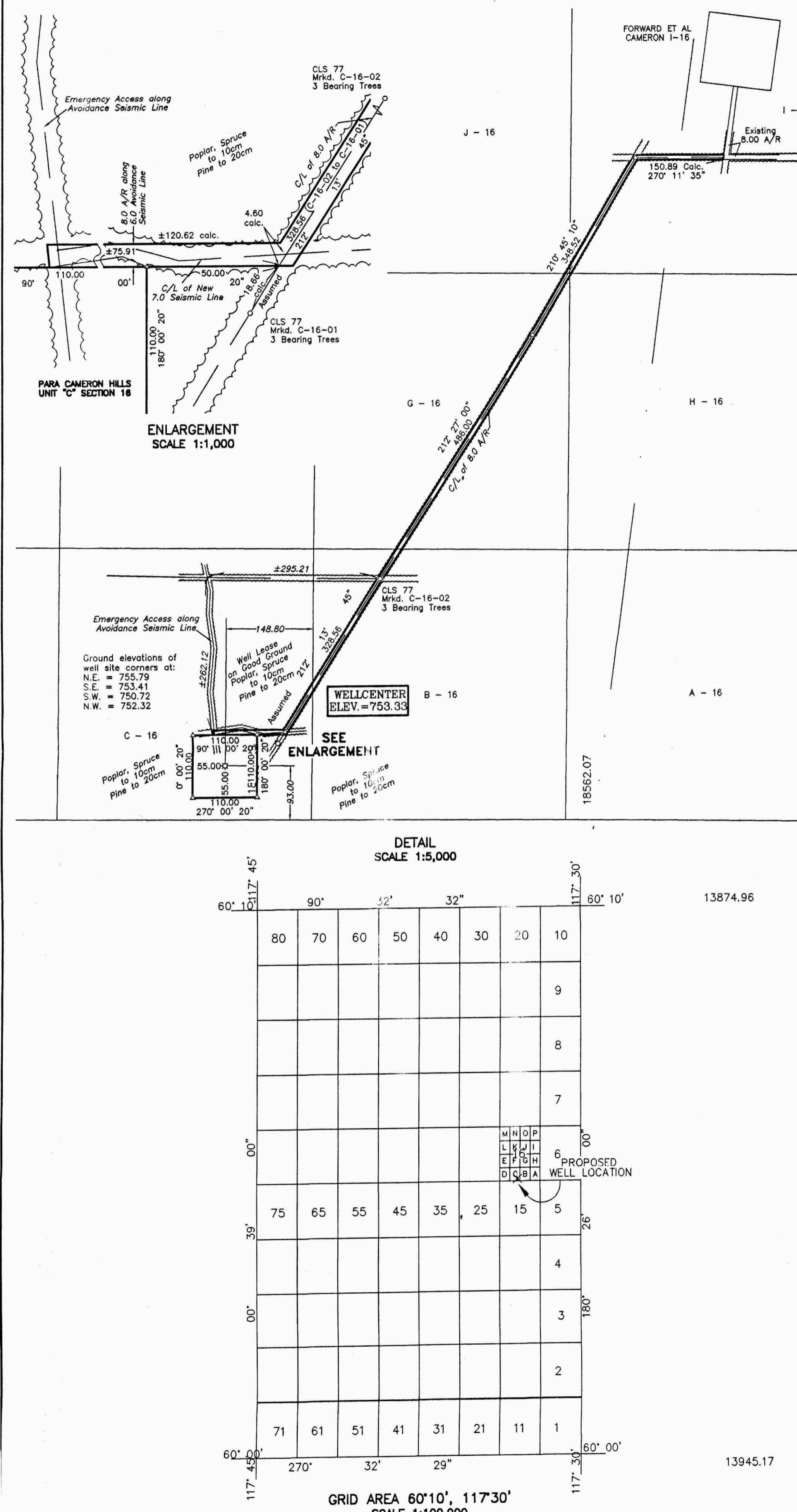


DOL 50%, off wh to tan to lt brn, mcmxln to occ / xl gmst,  
sandy appnc, occ suc, streaks of p in xl por, scat pale  
yel flor, v wk gn cut, ANHY 50%, wh armor pearly  
nODULES to off wh to tan watery, dense, sl dolc ip, crptx  
to mcmxln

500 Son

**TOTAL DEPTH @ 1454.0m**





PLAN AND FIELD NOTES  
OF SURVEY OF  
PROPOSED EXPLORATORY WELL  
**PARA ET AL CAMERON**  
IN UNIT C, SECTION 16  
GRID AREA 60° 10', 117° 30'  
NORTHWEST TERRITORIES  
CANADA OIL AND GAS REGULATIONS  
EXPLORATORY WELL, NORTHWEST TERRITORIES

SCALE 1:20,000

400m 200 0m 400 800 1200



SURVEYED FOR  
**PARAMOUNT RESOURCES LTD.**

THIS SURVEY WAS EXECUTED DURING THE PERIOD OF  
AUGUST 28th 2003.

Certified correct and completed on the 24th day of August 2003.  
S. A. B. S. G. Y. \_\_\_\_\_ Canada Lands Surveyor

PARAMOUNT RESOURCES LTD.

Dave Blawie

WITNESS

## LEGEND

UTM coordinates are computed for Zone 11, Central Meridian 117° W. Bearings were derived from differentially corrected GPS Observations, and are referred to meridian 117° W.

Distances are expressed in metres and decimals thereof.

Distances shown in traverse are measured distances reduced to the horizontal at general ground level.

For the computation of coordinates measured distances have been reduced to the UTM plane by multiplying them by an average combined scale factor of 0.999492.

Distances shown on grid area subdivisions are UTM plane, NAD 27 Datum. All other dimensions are based on NAD83 Datum.

Statutory iron posts placed are shown thus:.....○  
Statutory iron posts found are shown thus:.....●  
Traverse stations placed are shown thus:.....△  
Areas dealt with shown thus:.....  
Buried pipe lines are shown thus:.....  
Seismic lines are shown thus:.....  
Existing Access Road are shown thus:.....

Elev. = 753.32m.  
(Geoid Separation HT1-01)

Survey was completed prior to drilling; therefore well as drilled

Survey was completed prior to drilling; therefore well as drilled may not necessarily agree with proposed location.

GEOGRAPHIC AND UTM COORDINATES, (1983 NAD)					
Station	Latitude(N)	Longitude(W)	Northings	Eastings	Elev.
<b>CONTROL MONUMENTS</b>					
C-16-01 (Adj.)	60°05'04.803"	117°32'57.640"	6660967.482	469437.407	757.897
C-16-02 (Adj.)	60°05'13.834"	117°32'46.451"	6661245.417	469612.631	758.903
<b>PROPOSED WELL</b>					
C-16 WELL CENTRE	60°05'03.512"	117°33'03.460"	6660928.276	469347.125	753.332

GRID AREA 60°10', 117° 30' - GEOGRAPHIC AND UTM COORDINATES, (1927 NAD)				
N.E.	60°10'00"	117°30'00"	6669871.559	472250.652
N.W.	60°10'00"	117°45'00"	6670002.853	458376.311
S.W.	60°00'00"	117°45'00"	6651441.753	458165.709
S.E.	60°00'00"	117°30'00"	6651310.016	472110.252
C-16, N.E.	60°05'15.131"	117°32'48.749"	6661079.483	469576.271
C-16, N.W.	60°05'15.147	117°33'16.874"	6661083.592	469141.656
C-16, S.W.	60°05'00.147"	117°33'16.874"	6660619.556	469137.762
C-16, S.E.	60°05'03.131"	117°32'48.749"	6660615.446	469572.432
PROPOSED WELL				
C-16 (SURVEYED)	60°05'03.142"	117°32'58.370"	6660709.822	469424.512

BEARING TREES			
STATION	BEARING	DISTANCE	TREE
C-16-1	82°25'46"	17.90	15 cm Spruce
	129°36'46"	13.35	9 cm Poplar
	168°00'46"	17.17	11 cm Spruce
C-16-2	114°44'46"	14.69	10 cm Spruce
	321°30'46"	17.73	16 cm Spruce

1	Removed Camp Site <i>Co B</i>	JDS	OCT. 23/03
0	PLAN ISSUED	THL	SEPT. 24/03
REV.	DESCRIPTION	BY	DATE
<b>GREG A. BOGGS</b> CANADA LANDS SURVEYOR		Date: Sept. 24, 2003	<b>SCALE AS SHOWN</b>
 <b>McELHANNEY LAND SURVEYS LTD.</b> PROFESSIONAL LAND SURVEYORS 138, 14315-118 Avenue Edmonton, Alberta		Plan No.: 1 of 1	
<b>McElhanney</b>		Job No.: 321114304	File No.: 14304