

Final Well Report

ISPG/ IGSP

FINAL WELL REPORT
PARAMOUNT RESOURCES LTD.
PARA ET AL CAMERON F-19

Grid: 60° 10', 117° 30'

DATE: May 13, 2004

COMPANY REPRESENTATIVE:
Dave Block

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A. INTRODUCTION

Paramount Resources Ltd. (Paramount) drilled a 1481 meter development well spudded on February 4, 2004 and finishing drilling on February 9, 2004 to evaluate hydrocarbon potential. The primary target was the Sulphur Point formation at a depth of 1433 mKB. The secondary target was the Slave Point formation at 1370 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 m³ and was equipped with a boiler.

The well was drilled on Production License No PL-005 in which Paramount has an 88% working interest. Operating License No 2003 was issued to Paramount on January 13, 2004.

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

Latitude: 60° 08' 18.499"

Longitude: 117° 33' 15.533"

Shadow Rathole Drilling Ltd. drilled a 610 mm conductor hole to 12.2 meters. From surface to 1.0 meters was snow, 1.0 – 4.0 m was frozen peat moss, 4.0 - 9.0 was permafrost, and 9.0 – 12.2 m was clay and rock. A 406 mm conductor pipe was set and cemented at 12.2 meters.

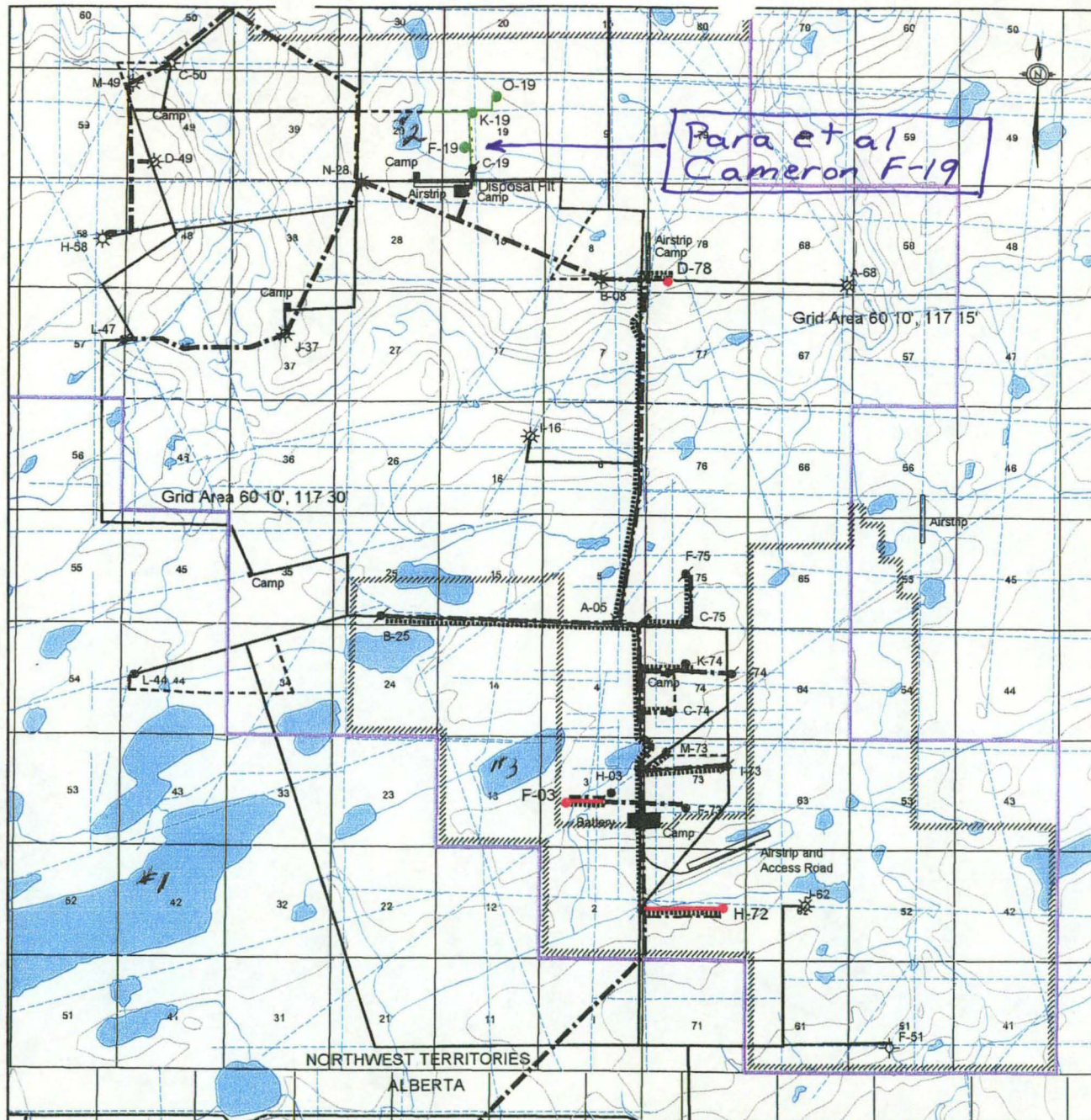
Precision #247 was partially moved onto the location on January 26, 2004. The derrick was damaged during the rig move and had to be transported to Nisku in Alberta for repairs. On February 3, 2004 the repaired and re-inspected derrick arrived back at the location and the rig up was completed. The diverter was nipped up and drilling commenced February 4, 2004 at 08:00 hours. A 311 mm surface hole was drilled to 431 mKB. There were no major lost circulation or mud ring problems encountered in the surface hole. A string of 219.1 mm, 35.7 kg/m, J-55, ST&C surface casing was run to 431 mKB. The casing was cemented with 32 t class 'G' cement plus 2% CaCl₂. There were 3 m³ of cement returned to surface while cementing. The plug was bumped and the float held OK. The plug was down at 04:47 hours on February 6, 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 441 mKB on February 7, 2004. A leak off test was performed with the leak off gradient found to be 29.8 kPa/m. A 200 mm hole was drilled with a flocculated water system to approximately 1300 m. A gel/chem mud system was then used to drill to a total depth of 1481 mKB. Precision Wireline ran induction, density, and sonic logs from bottom to surface casing and a micro resistivity log from bottom to 1350 mKB.

139.7 mm, 20.83 kg/m, J-55, ST&C production casing was run and set at 1481 mKB. It was cemented with 27 t Thixlite + 1% SMS and 4 t Expando LWL + 0.1% CFL-3 + 0.2% LTR + 0.2% SPC-II. There were 2.0 m³ cement returns and the plug was bumped with 17.0 MPa.

Precision #247 was rigged out and released at 06:00 hours on February 11, 2004.



LEGEND

- SDL
 - WELLSITE/ACCESS
 - EMERGENCY ACCESS
 - SEISMIC LINE
 - PIPELINE
 - 3D SEISMIC
 - POWERLINE/FUEL LINE
 - SATELLITE/AIRSTRIIP & ACCESS
 - AMENDED WELLSITE/ACCESS
 - DELETED
- NOTE: EMERGENCY ACCESS NOT SHOWN FOR THIS APPLICATION

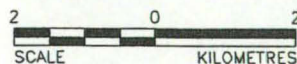
EXISTING
OR PERMITTED
BUT NOT YET
CONSTRUCTED BY
MAY 2003

THIS APPLICATION

- Proposed Location
- Abandoned Gas Well
- Abandoned Oil Well
- Active Oil Well
- Suspended Gas Well
- Suspended Oil Well
- Active Gas Well

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

F-19, K-19 AND O-19 AMENDMENT WELLS



PROJECT 03-1322-134.9000	FILE No.	Application-2
DESIGN DJ 09/10/03	SCALE	AS SHOWN REV. 0
CADD RFM 09/10/03		
CHECK		
REVIEW		

FIGURE: 2

B. GENERAL DATA

1. Well Name: Para et al Cameron F-19
Authority to Drill a Well No: 2003
Exploration Agreement Number: PL-005
Location Unit: F
Section: 19
Grid Area: 60° 10' N, 117° 30' W
Classification: Development
2. Coordinates:
Latitude: 60° 08' 18.499"
Longitude: 117° 33' 15.533"
3. Unique Well Identifier: 300F196010117300
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: None
11. Total Well Cost: \$722,000
12. Bottom Hole Co-ordinates: Same as surface

C. SUMMARY OF DRILLING OPERATIONS

1. Elevations:
 - Ground: 783.74 m above sea level
 - KB: 788.34 m above sea level
 - KB to Casing Flange: 4.6 m
2. Total Depth:
 - FTD: 1481 mKB
 - PBTD: 1475 mKB
 - TVD: 1481 mKB
3. Date and Hour Spudded: February 4, 2004 at 08:00
4. Date Drilling Completed: February 9, 2004
5. Date of Rig Release: February 11, 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 431 mKB
 - Main Hole: 200 mm to 1481 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: January 24, 2004
 - 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: 33
 - Depth Set: 431 mKB
 - Cut Height: At surface
 - Date Set: February 5, 2004
 - Cement Volume: 32 Tonnes

Float Shoe Depth: 431 mKB
 Float Collar Depth: 426 mKB
 Cement Type: Class 'G'
 Additives: 2% CaCl₂
 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: 112
 Thread: ST&C
 Depth Set: 1481 m KB
 Cut Height: Surface
 Date Set: February 10, 2004
 Float Shoe Depth: 1481 mKB
 Float Collar Depth: 1475 mKB
 Cement Volume 1: 27.0 Tonnes
 Cement Type 1: Thixlite
 Additives 1: 1% SMS
 Cement Volume 2: 4.0 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: 28 - 72 sec/L
 Weight: 1000 - 1140 kg/m³
 PH: 8.5 - 11.0

Main (431 - 1300 m): Floc water
 Properties: Viscosity: 29 sec/L
 Weight: 1010 kg/m³

PH: 8.5 - 9.5

Main (1300 m – TD):	Gel-chem	
Properties:	Viscosity:	41 - 84 sec/L
	Weight:	1050 - 1130 kg/m ³
	PH:	9.0 – 10.5
	Water loss:	9.0 – 10.0 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:	441 m
Fluid Density:	1000 kg/m ³
Applied Pressure:	8600 kPa
Hydrostatic Pressure:	4228 kPa
Mud Weight Equivalent:	3033 kg/m ³
Casing setting depth:	431 mKB

The surface casing leak-off test was taken to a gradient of 29.8 kPa/m before leak off was detected.

14. Time Distribution

Date	Hours	Activity
04/01/26	4.0	Move in / rig up
	4.0	Wait on daylight
04/01/27	4.0	Wait on daylight
	8.0	Move in / rig up
	12.0	Wait on derrick repair
04/01/28	24.0	Wait on derrick repair
04/01/29	24.0	Wait on derrick repair
04/01/30	24.0	Wait on derrick repair
04/01/31	24.0	Wait on derrick repair
04/02/01	24.0	Wait on derrick repair
04/02/02	24.0	Wait on derrick repair
04/02/03	8.0	Wait on daylight
	16.0	Move in / rig up
04/02/04	0.25	Safety meeting
	0.25	Rig service
	7.5	Nipple up diverter
	0.25	Test diverter
	9.25	Drill
	4.5	Ream
	1.0	Circulate and condition mud
	1.0	Survey
04/02/05	0.25	Safety meeting
	0.75	Rig service
	0.25	Rig repair
	8.75	Drill
	2.0	Survey
	1.25	Circulate and condition mud
	7.75	Trip
	3.0	Run casing
04/02/06	0.5	Safety meeting
	1.25	Run casing
	1.25	Cement casing
	4.0	Wait on cement
	2.0	Weld bowl
	3.25	Nipple up BOP's

	4.0	Pressure test BOP's
	2.25	Trip
	1.5	Drill out casing shoe
	0.75	Drill
	0.75	Leak off test
	2.5	Circulate and condition mud
04/02/07	0.75	Rig service
	1.25	Survey
	21.75	Drill
	0.25	BOP drill
04/02/08	0.25	Safety meeting
	0.75	Rig service
	0.5	Rig repair
	2.0	Survey
	19.5	Drill
	0.25	Work tight hole
	0.75	Clean screens
04/02/09	0.5	Rig service
	0.25	Survey
	3.5	Drill
	1.5	Circulate and condition mud
	1.75	Clean screens
	9.0	Trip
	7.5	Logging
04/02/10	0.5	Safety meeting
	0.5	Rig service
	0.25	Clean screens
	9.5	Circulate and condition mud
	5.0	Run casing
	1.25	Cement casing
	2.0	Trip
	5.0	Lay down drill string
04/02/11	0.25	Cement casing
	1.0	Set slips
	6.75	Tear out rig

Time Break Down by Activity:

<u>Activity</u>	<u>Hours</u>
Move in / rig up:	20.0
Wait on daylight:	16.0
Wait on derrick repair:	164.0
Drilling:	63.5
Surveying:	6.5
Circulate and condition mud:	15.75
Running casing:	9.25
Cementing casing:	2.75
Wait on cement	4.0
Drill out casing shoe:	1.5
Rig service:	3.5
Rig repair:	0.75
Tripping:	21.0
Safety meetings:	1.75
Nipple up diverter:	7.5
Test diverter:	0.25
Ream:	4.5
Clean screens:	2.75
Weld casing bowl:	2.0
Nipple up BOP's:	3.25
Pressure test BOP's:	4.0
BOP drill:	0.25
Leak off tests:	0.75
Logging:	7.5
Lay down drill string:	5.0
Set slips:	1.0
Tear out rig:	6.75

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 - 15 of the Geological Report in the Attachment Section.

Total Depth: 1481 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:	431 – 1477 mKB
Spectral Density Compensated Neutron Log:	431 – 1470 mKB
Borehole Compensated Sonic Log:	431 – 1478 mKB
Micro Resistivity Log:	1350 – 1460 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 supple 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 at E-78 60° 10' N, 117° 15' W where they were disposed of using the mix/bury/cover technique.

RUNNING HORSE RESOURCES INC.



CALGARY ALBERTA CANADA
Cell: 660.9883, Ph/Fax 403.234.7625
wellsitegeologists@telusplanet.net
www.wellsitegeologists.com

Geological Report

on

Para et al Cameron F-19 Unit F Section 19

Well Reached Total Depth of 1481.0 metres
on
Feb 09, 2004 @ 05:35 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, P.Geol.
Running Horse Resources Inc.

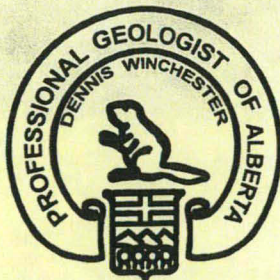




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Geological Striplog 1:240 scale	Back Sleeve
CD (Photos, Reports, Striplogs)	Back Cover Slip

Executive Summary

Para et al Cameron F-19 is a vertical development well spudded by Precision Drilling Rig #247 on February 4, 2004 @ 08:00. Surface hole is 311mm drilled to 431.0m with 219.1mm casing landed at 431.0m. The 200mm main hole terminated in the **Muskeg** formation at 1481.0m February 9, 2004 @ 05:35.

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 530-570m and 1340m to TD at 1481.0m. Triple Induction, SP, Neutron Density, Compensated Sonic, Gamma Ray and XY Caliper logs were run from TD to surface casing. Microlog was run from TD to 1350m.

The **Sulphur Point Dolomite** is a microcrystalline to finely crystalline packstone to grainstone. The dolomite occurred on logs at 1439.0m. It was 15.8m thick, conformably and sharply underlain by anhydrite of the Muskeg formation. Observation of samples saw common subhedral and euhedral crystal growth. Grain size was cryptocrystalline to medium crystalline with streaks of fair to good vug porosity and fair intercrystalline in part sucrosic porosity. The samples appeared quite granular in texture. The most promising interval from 1448-1458m shows 10-20% porosity on density logs. Excellent ROP rates also indicate good porosity, and Microlog indicates permeability. The samples were light brown to brown and saw common dark brown oil staining. They showed deep yellow fluorescence and a slow streaming watery to milky yellowish white cut, and a strong petroliferous odor. Induction log analysis showed 15-20ohms on the deep induction in the porous intervals. Gas detector readings in this 1448-1458m interval peaked at 841 units over a baseline of 290 units. A gas zone in the above Sulphur Point limestone formation should act favourably by providing pressure for production. **The Sulphur Point Dolomite appears to have good potential for oil production.**

The **Slave Point** was picked in samples at 1379m, which was confirmed on 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 upper interval of 1385-1400m, it showed 3-5% porosity. The samples had a slight petroliferous odor, and common yellow fluorescence, with a questionable watery greenish cut. Deep induction logs show over 50-200ohms. Gas detector readings peak at 640units over a baseline of 250units over the 1385-1400m interval. **The Slave Point does not appear to have production potential at this location.**

Para et al Cameron F-19 was cased for production as an oil well from the Sulphur Point Dolomite.

Well Data Summary

OPERATOR	Paramount Resources Ltd.
WELL NAME	Para et al Cameron F-19
LOCATION	Unit F Section 19
	Grid Area: Lat 60° 10' N Long 117° 30' W
UWI	300F196010117300
POOL	Undefined
FIELD	Cameron Hills
PROVINCE	Northwest Territories
LICENCE NUMBER	2000
CLASSIFICATION	Production
A.F.E. NUMBER	03N410022

SURFACE COORDINATES	Latitude: 60° 08' 18.499" North
	Longitude: 117° 33' 15.533" West

ELEVATIONS	KB: 788.34m
	GL: 783.74m

TOTAL DEPTH	Driller: 1481.0m (-692.66m SubSea)
	Logger: 1479.3m (-690.96m SubSea)

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

SPUD DATE	February 4, 2004 @ 08:00
COMPLETED DRILLING	February 9, 2004 @ 05:35
RIG RELEASE	February 10, 2004 @ 23:59

Well Data Summary

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

CASING Surface: 219.1mm, 35.70 kg/m set @ 431.0m
Production: 139.7mm, 20.83 kg/m set @ 1481.0m

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

DSTs none

CORES none

SAMPLES Operator: 1 set vials (@ 5m) over interval: 1340m - TD
NEB: 2 sets vials (@ 5m) over interval: 1340m - TD
1 set bags (@ 5m) over interval: 1340m - TD

MUD RECORD 0-431m Gelchem
431-1300m Floc Water
1300-TD Gelchem

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 22km, following rig signs.

PROBLEMS

On Surface Hole: None.

On Main Hole: Minor anhydrite contamination in mud from Muskeg formation.

Logging Summary

Date: February 9, 2004

Logging Company: Precision Wireline **Engineer:** Scott Treadwell

Mud Properties: WT: 1130 kg/m³ Visc: 80 s/L WL: 10.0 pH: 9.0

Hole Size: 200mm

Surface Casing: 219.1mm, 35.7kg/m, set @ 431.0m

Depths: Driller: 1481.0m Strap: 1484.41m Logger: 1479.3m

Logging Times: First Alerted: 08:30 February 8, 2004
Time Required: 13:30 February 9, 2004 (7.0hr final notice)
Arrived: 14:15 February 9, 2004
Rig Up: 15:00 February 9, 2004
Rig Out: 22:00 February 9, 2004 (7.0hr rig time)

Hole Condition: Good

Circulations: 1.0hr after TD then 1.0hr after wiper trip

Wiper Trips: TD to 431.0m (surface casing)

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 @ 16:30 February 9, 2004. Run #2 no problems.

Bit Record & Casing Summary

Bit Record

Bit #	Make	Type	Size	In (m)	Out (m)	Meters (m)	Hours	ROP (m/hr)	CONDITION
1A	Varel	FGX1C	311mm	0	255	255	11.00	23.18	7 - 6 - WT - 1mm - PR
2A		GFX1C	311mm	255	431	176	7.00	25.14	4 - 4 - IN
1		MKS-55	200mm	431	1481	1050	45.50	23.08	2 - 2 - WC - 1mm - TD

Casing / Cement Summary

Type	Casing Size	Hole Size	Landed	Total Joints	Remarks
Surface	219.1mm	311mm	431.0m	33	33 joints of 219.1mm 35.72kg/m, J-55, ST&C new Ipsco casing ran. Cemented with Sanjel 32t of 0:1:0 Class G + 2% CaCl ₂ with density 1901 kg/m ³ .. Approximately 3.0m ³ of good returns, float OK, plug down @ 04:47 February 6, 2004.
Production	139.7mm	200mm	1481m	112	112 joints of 139.7mm 20.83kg/m, J-55, 8RD ST&C new Camanch casing ran. Cemented with Sanjel with 27.5t Thixlite with 1% SMS for lead. Tail cement 4.5t Expandomix LWL with 0.1% CFL-3 and 0.2% LTR and 0.2% SPC-11. 3m ³ good returns. Plug down 01:00 on February 11, 2004.

Deviation Surveys

Depth	Inclination	Azimuth	TVD	North	East	Section	Dogleg	Build Rate	Turn Rate
Meters	Degrees	Degrees	Meters	Meters	Meters	Meters	/30m	/30m	/30m

THIS WELL IS A VERTICAL WELL

30	0.25
57	0.25
95	0.25
131	0.25
168	0.25
207	0.50
245	0.75
284	0.25
320	0.75
368	1.00
425	1.50
487	0.50
593	0.25
696	0.25
802	0.25
908	0.50
1014	0.50
1120	0.75
1227	0.50
1332	0.75
1468	0.25

Daily Drilling Summary

<u>Date</u>	<u>Depth</u>	<u>Progress</u>	<u>Operations</u>
* note that operations are as reported from 00:00 to 23:59 on the date shown			
Feb 3	0	0	Crews and rig arrived. Rig up.
Feb 4	191	191	Rig up. Nipple up diverter, function test. Test accumulator and related BOP equipment. Pre-spud inspection. Spud well February 4, 2004 @ 08:00. Drill 311mm surface hole with Bit #1A with surveys and required rig service to 191m. Minor back reaming.
Feb 5	240	431	Drill 311mm surface hole with required surveys and rig service from 191m to 419m. Circulate, POOH for bit trip. Wiper trip, circulate. RIH with Bit #2A. Drill to surface casing point at 431m. Condition mud and circulate hole clean. POOH to run casing. Rig for and run 33 joints 219.1mm surface casing.
Feb 6	470	39	Continue running surface casing. Cement with Sanjel. WOC. Weld on bowl, nipple up BOPs. Pressure test related equipment. Make up BHA with Bit #1 and RIH. Drill out float and shoe to 441m @ 22:30. Leak off test, rig service and safety meeting. Drill ahead 200mm main hole with required rig service and surveys from 441m to 470m.
Feb 7	962	492	Drill ahead 200mm main hole with required rig service and surveys from 470m to 962m.
Feb 8	1451	589	Drill ahead 200mm main hole with required rig service and surveys from 962m to 1451m.

Daily Drilling Summary

Feb 9	1481	30	Drill ahead 200mm main hole with required rig service and surveys from 1451m to 1481m. Total Depth February 9, 2004 @ 05:35. Circulate up sample, then 1 hour. POOH for wiper trip to casing, RIH. Circulate 1hour. Chain out with strap to log. Rig up Precision Wireline. Log Run #1. Rig out tools, rig for Log Run #2. Log Run # 2. Rig out loggers. RIH.
Feb 10	1481	0	RIH to condition hole for casing. Circulate. POOH sideways. Run 112 joints 139.7mm production casing. Circulate casing. Rig for cementers. Wait on cementers.
Feb 11	1481	0	Cement hole with Sanjel. WOC. Nipple down, strip mud, tear out for rig move. Rig release 02:00 February 11, 2004.

Formation Tops

Kelly Bushing Elevation: 788.34m

Formation	Sample (m)	Logger (m)	Elevation (m)
Wabamun	559.8	559.8	+228.54
Fort Simpson	754.2	754.2	+ 34.14
Twin Falls	869.5	868.0	- 79.66
Slave Point *	1379.0	1379.0	- 590.66
F4 Marker	1420.0	1420.0	- 631.66
Watt Mountain	1428.3	1427.7	- 639.36
Sulphur Point LS	1430.6	1430.6	- 642.26
Sulphur Point DOL **	1439.0	1439.0	- 650.66
Muskeg	1454.8	1454.3	- 665.96
Total Depth	1481.0	1479.3	- 690.96

***Primary Zones of Interest*

** Secondary Zones of Interest*

Sample Descriptions

- 520-540 SHALE, medium gray, mudstone, micromicaceous, dull, lumpy, soft, in part rugose texture, trace dolomitic stringers
- 540-550 SHALE, medium to dark gray, very dark brown to black, carbonaceous with scattered coal, platy to lumpy, in part white speckled, soft, occasional pyrite nodules
- 550-555.5 SHALE, essentially as above, organic, trace coal, scattered pyrite

BLUESKY ? @ 555.5m

- 555.5-559.8 SANDSTONE, frosted to light gray quartz sand, fine upper to m upper grained, occasional free coarse grained, moderately well sorted, angular to sub angular, siliceous and calcareous cement, in part argillaceous, friable to firm, in part loose grains, fine grained relief, fine to good intergranular porosity (12 to 15%), assumed 2 to 3% non visible porosity in argillaceous matrix, abundant glauconite, abundant pyrite, no fluorescence or cut

WABAMUN @ 559.8m

- 559.8-565 LIMESTONE, cream to buff, predominantly cryptocrystalline to microcrystalline, occasionally very fine crystalline, mudstone to wackestone, in part chalky, argillaceous in part, lumpy to blocky, massive, trace locally disseminated pyrite crystals, fossil ghosts?, dense with trace poor intercrystalline porosity, inferred minor earthy porosity, tight, no show
- 565-580 LIMESTONE, as above, chalky, slightly lighter in color

FORT SIMPSON @ 754.2m

TWIN FALLS @ 869.5m

Sample Descriptions

1335-1350 SHALE 85%, 1) medium gray, gray to slightly green gray, very calcareous grading to shaly limestone, dull to micromicaceous in part, platy to blocky, sub fissile to firm, smooth to waxy texture in part, trace pyrite, 2) dark brown to black, micromicaceous in part, blocky, bituminous in part?, LIMESTONE 15%, off white to light gray, cryptocrystalline to predominantly microcrystalline, argillaceous mudstone, lumpy, local disseminated pyrite, tight, no show

MUSKWA ? @ 1348m

1350-1365 SHALE 70%, gray brown to medium brown, dark brown to occasional black, bituminous appearance in part, micromicaceous in part, blocky, firm, calcareous in part, silty in part, occasionally grading to coal, trace calcite veining, SHALE 30%, medium gray, gray to slightly green gray, very calcareous grading to shaly limestone, dull to micromicaceous in part, platy to blocky, sub fissile to firm, smooth to waxy texture in part, trace pyrite, minor LIMESTONE as above

1365-1370 SHALE 80%, medium gray, gray to slightly green gray, very calcareous grading to shaly limestone, dull to micromicaceous in part, platy to blocky, sub fissile to firm, very smooth to waxy texture in part, common pyrite clusters and cubic crystals, LIMESTONE 20%, white to light gray, cryptocrystalline to predominantly microcrystalline, argillaceous mudstone, lumpy, local disseminated pyrite, tight, no show

1370-1379 SHALE 65%, as above, LIMESTONE 35%, as above

SLAVE POINT @ 1379.0m

1379-1385 LIMESTONE 100%, cream to light brown, brown, in part 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, very pale yellow fill, questionable watery greenish cut

Sample Descriptions

- 1385-1395 LIMESTONE 100%, cream to brown, more brown than as above, in part mottled, cryptocrystalline to microcrystalline, trace very fine crystalline, 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, slightly petroliferous odor, common yellow fluorescence, questionable watery greenish cut
- 1395-1400 LIMESTONE 100%, cream to tan to brown, mottled, argillaceous mudstone to wackestone, 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, common yellow fill, weak slow greenish cut
- 1400-1415 LIMESTONE 100%, cream to tan to light gray tan, scattered brown, mottled, argillaceous mudstone to wackestone, cryptocrystalline to very fine crystalline, flaky to lumpy, chalky texture in part, tight, spot pale yellow to yellow fluorescence, weak watery green cut, minor ANHYDRITE
- 1415-1420 LIMESTONE 100%, cream to light gray brown to brown, mottled, argillaceous mudstone to wackestone, cryptocrystalline to very fine crystalline, flaky to lumpy to blocky, in part chalky, spot pale yellow to yellow fluorescence, weak greenish slow cut, minor ANHYDRITE, light gray, translucent to pearly lustre, microcrystalline
- F4 MARKER @ 1420.0m**
- 1420-1425 LIMESTONE 50%, as above, yellow fluorescence, no cut, DOLOMITE 50%, cream to light brown, microcrystalline, sandy texture, slightly anhydritic, scattered poor pinpoint porosity, no shows, minor ANHYDRITE, off white to light brown
- 1425-1428.3 LIMESTONE 80%, cream to brown, mottled, mudstone to wackestone, microcrystalline to very fine crystalline, soft, anhydritic, flaky to lumpy, tight, pale yellow fluorescence, no cut, ANHYDRITE 20%, white, pearly to watery appearance, amorphous, soft

Sample Descriptions

WATT MOUNTAIN @ 1428.3m

1428.3-1430 SHALE 20%, light gray green to mint green, argillaceous, waxy, lumpy, soft, scattered disseminated pyrite, in part calcareous, LIMESTONE 80%

SULPHUR POINT LIMESTONE @ 1430.6m

1430-1439 LIMESTONE 100%, predominantly white to tan, light brown to dark brown, gray, cryptocrystalline to medium crystalline, mudstone to wackestone, brown rock fragments in white argillaceous lime matrix, dolomitic in part, mottled, chalky, in part resinous, lumpy to blocky, scattered local pyrite crystals, tight with streaks of poor pinpoint porosity, assumed minor earthy porosity, very spot yellow fill, no show

SULPHUR POINT DOLOMITE @ 1439m

1439-1445 DOLOMITE 100%, light brown to brown, patchy dark brown oil stain, microcrystalline to fine crystalline packstone to grainstone, streaks of fair pinpoint/vug porosity, poor to fair intercrystalline porosity, scattered sparry calcite, in part sandy appearance, strong petroliferous odor, common yellow fluorescence, slow streaming milky yellow white cut

1445-1450 DOLOMITE 100%, essentially as above, becoming coarser, becoming darker brown, clear euhedral and subhedral dolomite crystalline, local micro sucrosic texture, even bright yellow fluorescence, slow streaming milky yellow white cut

1450-1454.8 DOLOMITE 100%, light brown to brown, dark brown oil stain, microcrystalline to fine crystalline packstone to grainstone, fair to good vug porosity, fair to good intercrystalline porosity, sucrosic, clear euhedral and subhedral dolomite crystalline growth along cutting edges suggests vug and/or fracture porosity, scattered sparry calcite, in part sandy appearance, strong petroliferous odor, slight oily sheen in sample, common deep yellow to yellow fluorescence, slow streaming milky to watery yellow white cut

Sample Descriptions

MUSKEG @ 1454.8m

1454.8-1470 ANHYDRITE 60%, white amorphous nodules, off white to tan, occasional light gray brown, pearly to watery lustre, cryptocrystalline, slightly dolomitic in part, dense, tight, DOLOMITE 40%, buff to light brown, trace spot dark brown oil stain, microcrystalline to very fine crystalline in part argillaceous grainstone, occasionally sucrosic, anhydritic in part, streaky poor intercrystalline porosity, pale yellow to yellow fluorescence, no show

1470-1481 ANHYDRITE 80%, white amorphous nodules, off white to tan, occasional light gray brown, pearly to watery lustre, cryptocrystalline, slightly dolomitic in part, dense, tight, DOLOMITE 20%, buff to light brown, trace spot dark brown oil stain, microcrystalline to very fine crystalline in part argillaceous grainstone, occasionally sucrosic euhedral crystalline growth, anhydritic in part, streaky poor intercrystalline porosity, occasional poor vug porosity, pale yellow fluorescence, no show

TOTAL DEPTH @ 1481m MD



1370m, Beaverhill Lake, cubic pyrite crystals, 26X



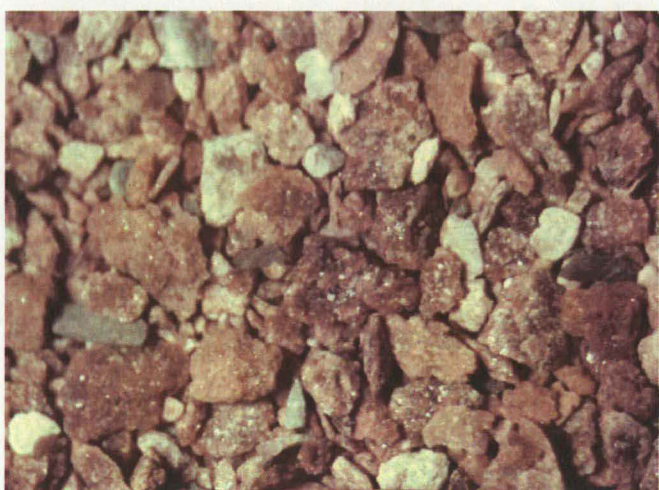
1390m, Slave Point, 20X



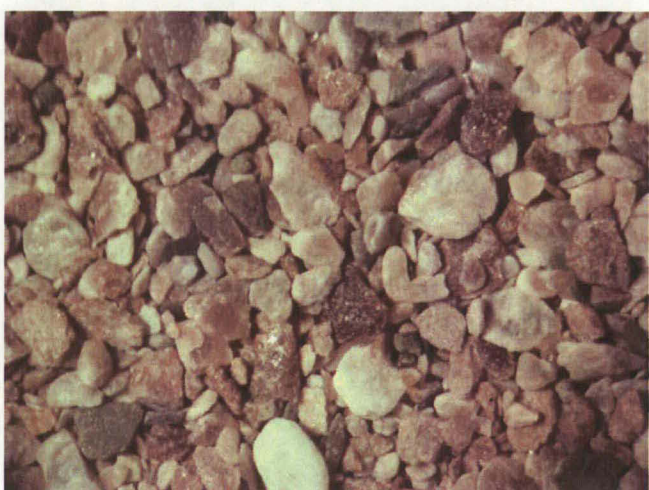
1435m, Watt Mountain, 20X



1455m, Sulphur Point DOL, 60X



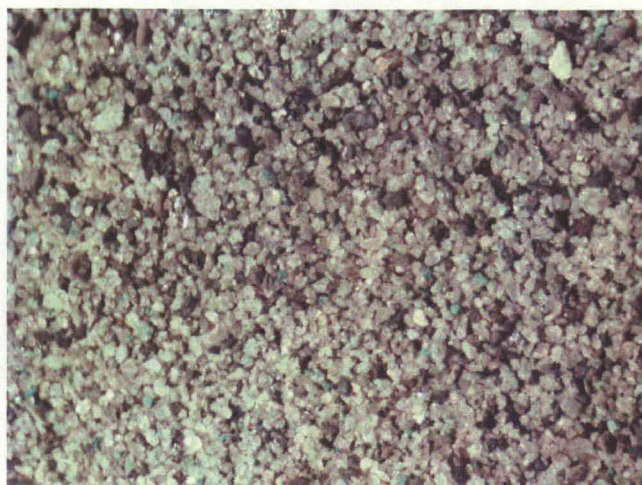
1455m, Sulphur Point Dolomite, 20X



1360m, Muskwa, 20X



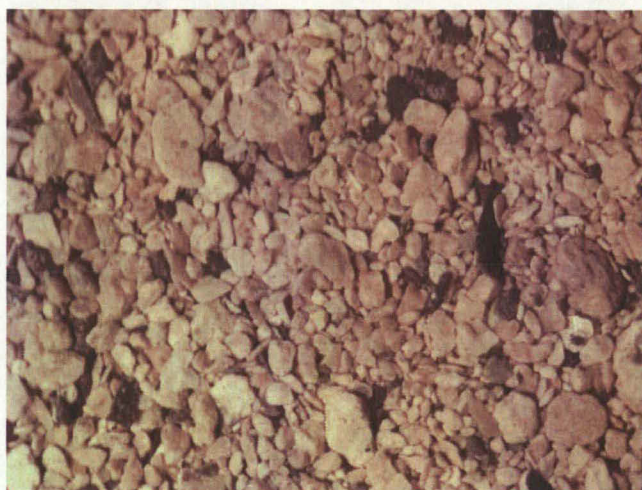
525m, Shale mudstone, 20X



560m, Bluesky, 20X



560m, Bluesky, 60X



580m, Wabamun, 20X



1345m, Twin Falls, 20X



1360m, Muskwa, 20X



Paramount
resources ltd.

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

Well Name: Para et al Cameron F-19
Location: Unit F Section 19 Grid Area: Lat 60° 10' N Long 117° 30' W
Licence Number: 2000 Region: Cameron Hills, NWT
Spud Date: Feb 4, 2004 @ 08:00 Drilling Completed: Feb 9, 2004 @ 05:35
Surface Coordinates: Latitude: 60° 08' 18.499" North
Longitude: 117° 33' 15.533" West
Bottom Hole Coordinates as surface
Ground Elevation (m): 783.74m K.B. Elevation (m): 788.34m
Logged Interval (m): 1340m To: 1481m Total Depth (m): 1481m
Formation: Primary = Sulphur Point DOL Secondary = Slave Point
Type of Drilling Fluid: Gel Chemical

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

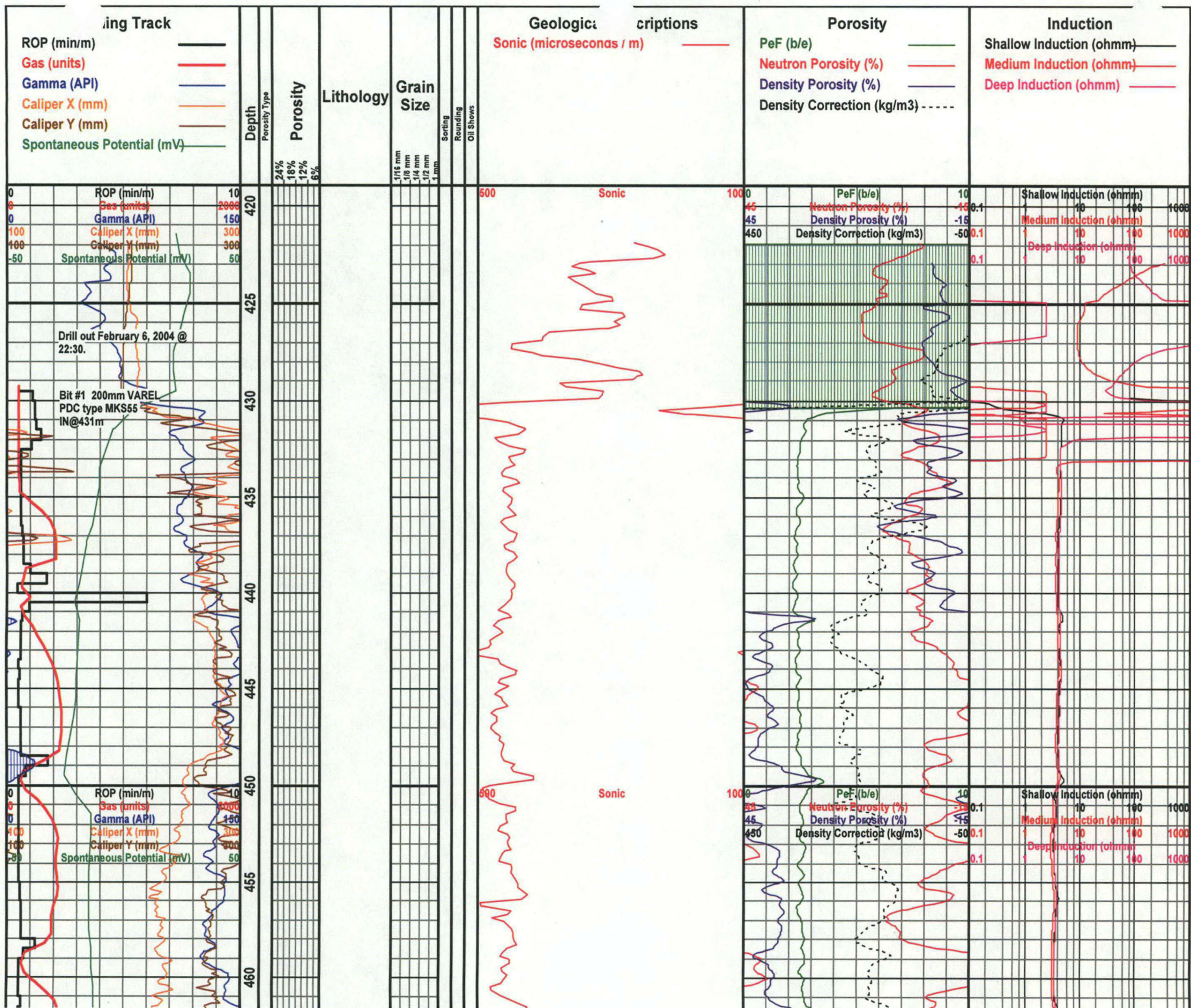
Name: Brad Powell, B.Sc.
Company: Running Horse Resources
Address: 66A New Street S.E.
Calgary, Alberta T2G 3X9
(403) 660-9883

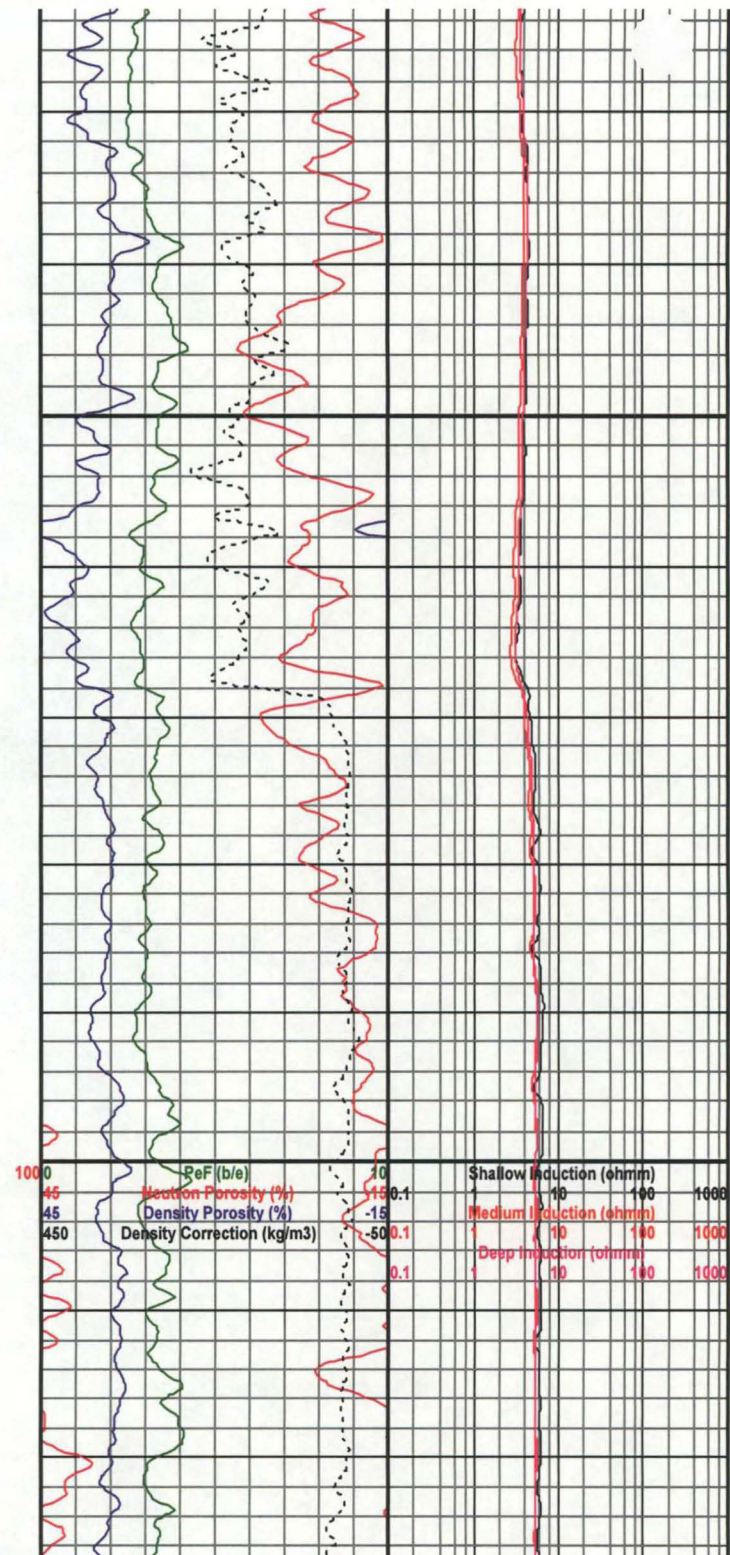
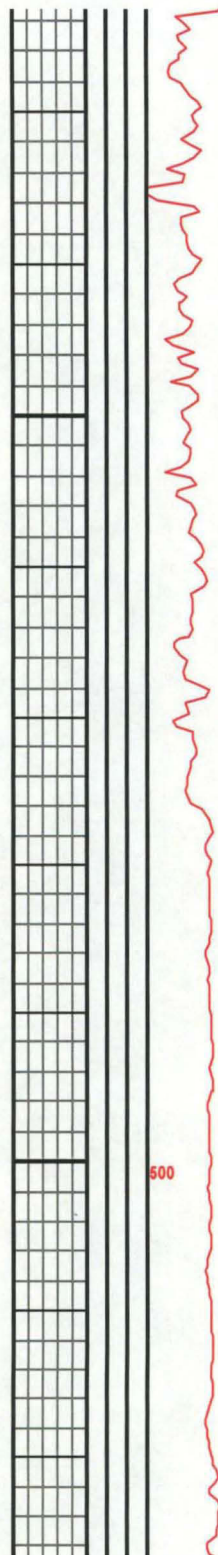
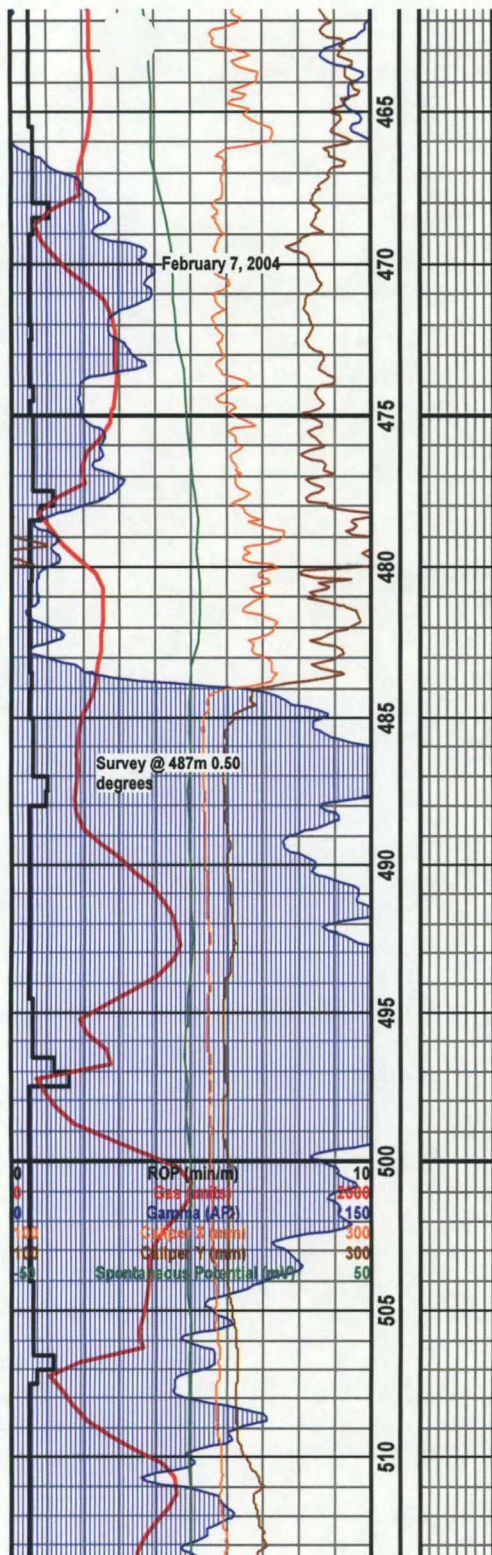
**This well was drilled by Precision Drilling Rig #247.
Paramount AFE #03N410022
A Wellsite Gas Detection gas detector was run.
Logging Program: Precision Wireline
Run #1: STI-SP-MRT-SPED-CNT-GR-CAL
Run #2: BHS-GR-CAL**

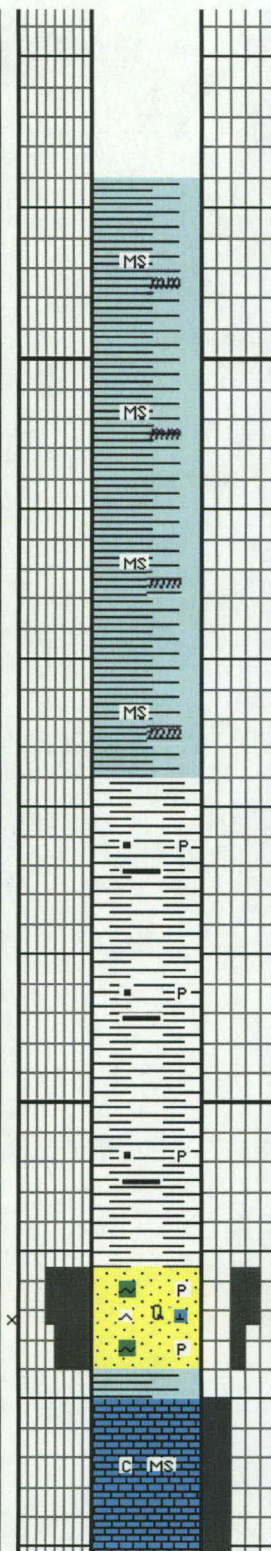
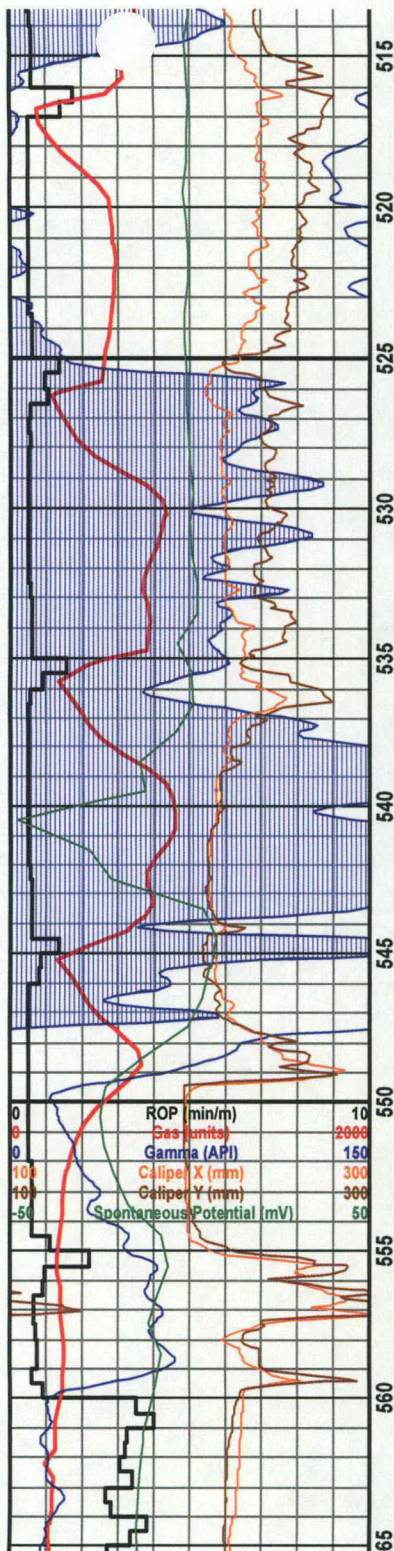
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	Bent		Coal		Lime mud		Shorg		Ss
	Brec		Congl		Lmst		Shale		Till
	Chtlt&dk		Dol		Meta		Shcol		
	Cht		Gyp		Mrlst		Shgy		

MINERAL	K	Kaol	FOSSIL	Ostra	Siltstrg
Anhy	π	Marl	Algae	Pelec	Ssstrg
Arg	*	Minxl	Amph	Pellet	
Bent	\oplus	Nodule	Belm	Pisolite	
Bit	**	Phos	Bioclst	Plant	TEXTURE
Brecfrag	P	Pyr	Brach	Strom	BS Boundst
Calc	\boxplus	Salt	Bryozoa		C Chalky
Carb		Sandy	Cephal	STRINGER	CX Cryxln
Chtdk		Silt	Coral	Anhy	E Earthy
Chtlt	\wedge	Sil	Crin	Arg	FX Finexln
Dol	S	Sulphur	Echin	Bent	GS Grainst
Feldspar	∇	Tuff	Fish	Coal	L Lithogr
Ferrpel	Q	Quartz	Foram	Dol	MX Microxln
Ferr	Mm	Mmica	Fossil	Gyp	MS Mudst
Gyp	mm	Micromica	Gastro	Ls	PS Packst
Hvymin		Glau	Oolite	Mrst	WS Wackest

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<input type="checkbox"/> E Earthy		<input type="checkbox"/> R Rounded	<input type="checkbox"/> Ques	<input type="checkbox"/> Rft
<input type="checkbox"/> B Fenest	SORTING	<input type="checkbox"/> r Subrnd	<input type="checkbox"/> D Dead	<input type="checkbox"/> Sidewall
<input type="checkbox"/> F Fracture	<input type="checkbox"/> W Well	<input type="checkbox"/> a Subang		
<input type="checkbox"/> X Inter	<input type="checkbox"/> M Moderate	<input type="checkbox"/> A Angular	INTERVAL	
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<input type="checkbox"/> P Pinpoint		<input type="checkbox"/> Even		







MAWA

SH, med gy, mudst, mmica, dull, lumpy, soft
ip rug tex, tr dolc strgs

SH, med to dk gy, v dk brn to blk, carb wi
scat coal, platy to lumpy, ip wh speckled,
soft, occ pyr nodules

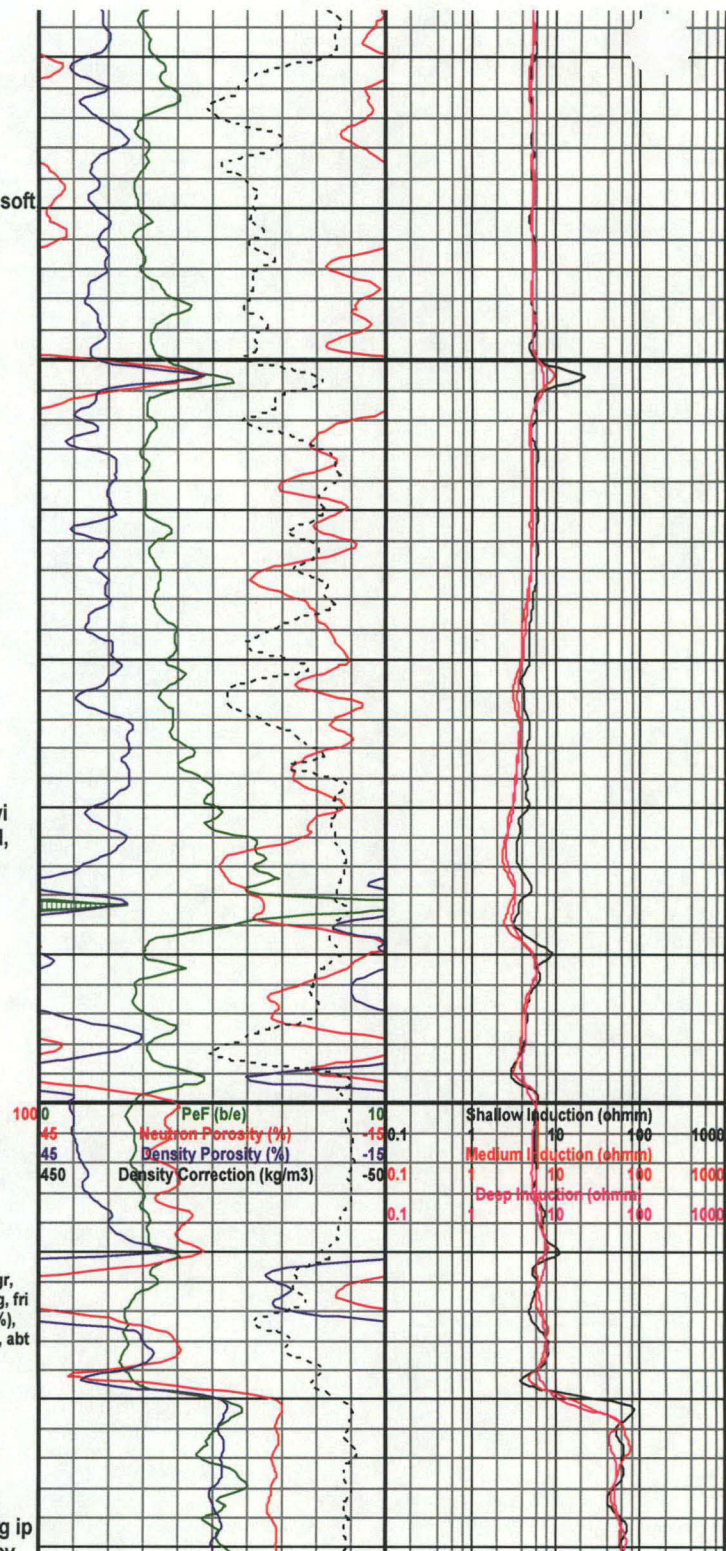
500 Sonic
SH, essentially aa, org, tr coal, scat pyr

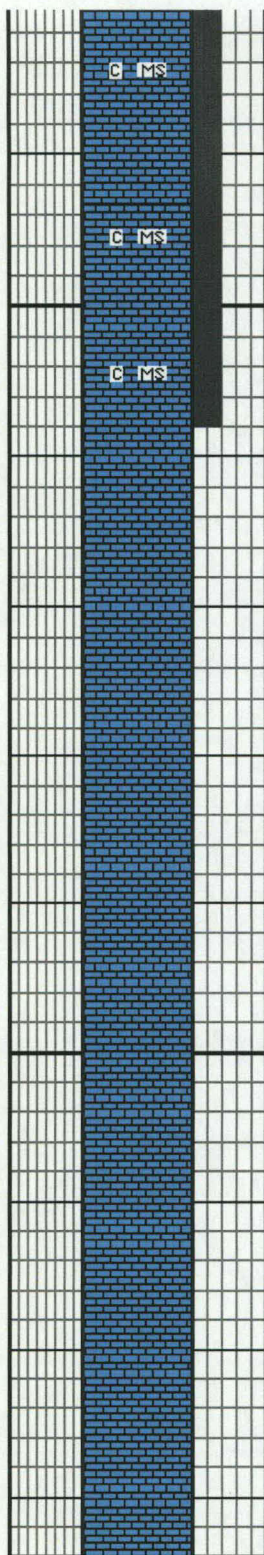
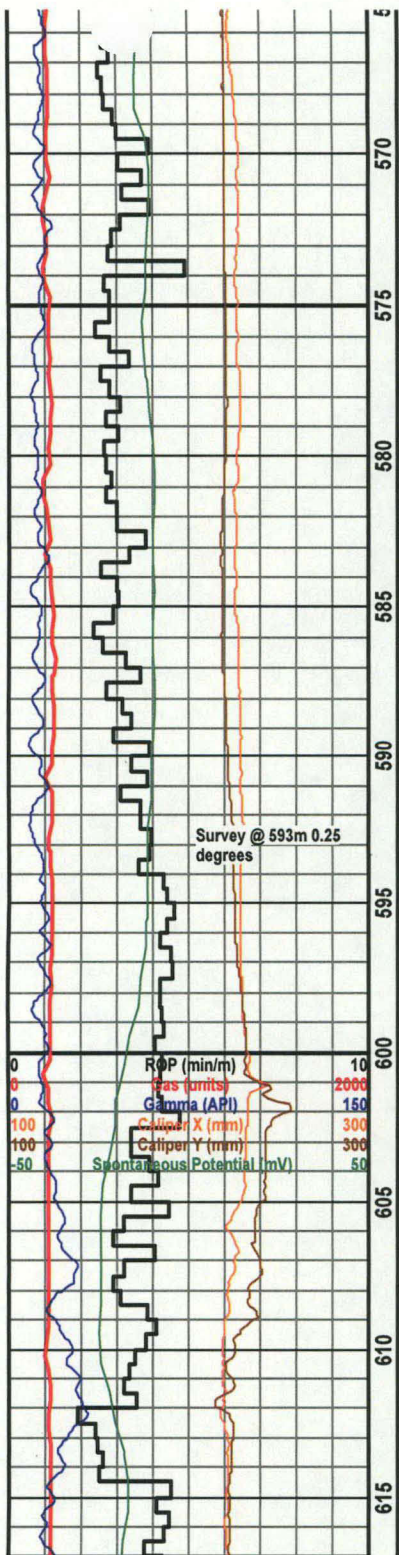
BLUESKY @ 555.5m

SS, fros to lt gy qtz sand, f u to m u gr, occ free c gr,
mod w srt, ang to sub ang, silc and calc cmt, ip arg, fri
to firm, ip lse grs, f gr relief, f to g intrgr por (12-15%),
assumed 2-3% non visible por in arg mtx, abt glau, abt
pyr, no flor or cut

WABAMUN @ 559.8m

LS, cream to buff, predy crptxl to mcxln,
occly vf xln, mudst to wkst, ip chalky, arg ip
lumpy to blk, massive, tr locally deem nu



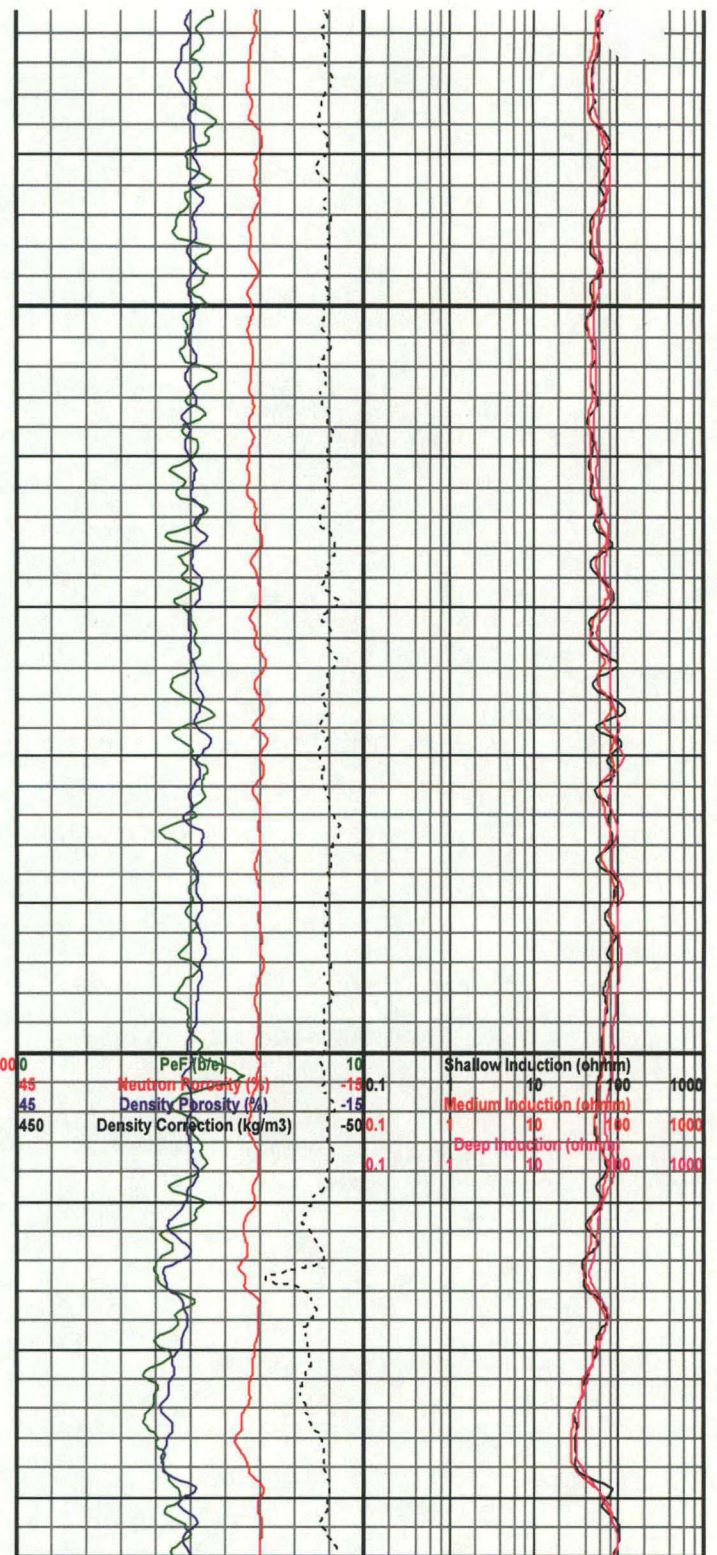


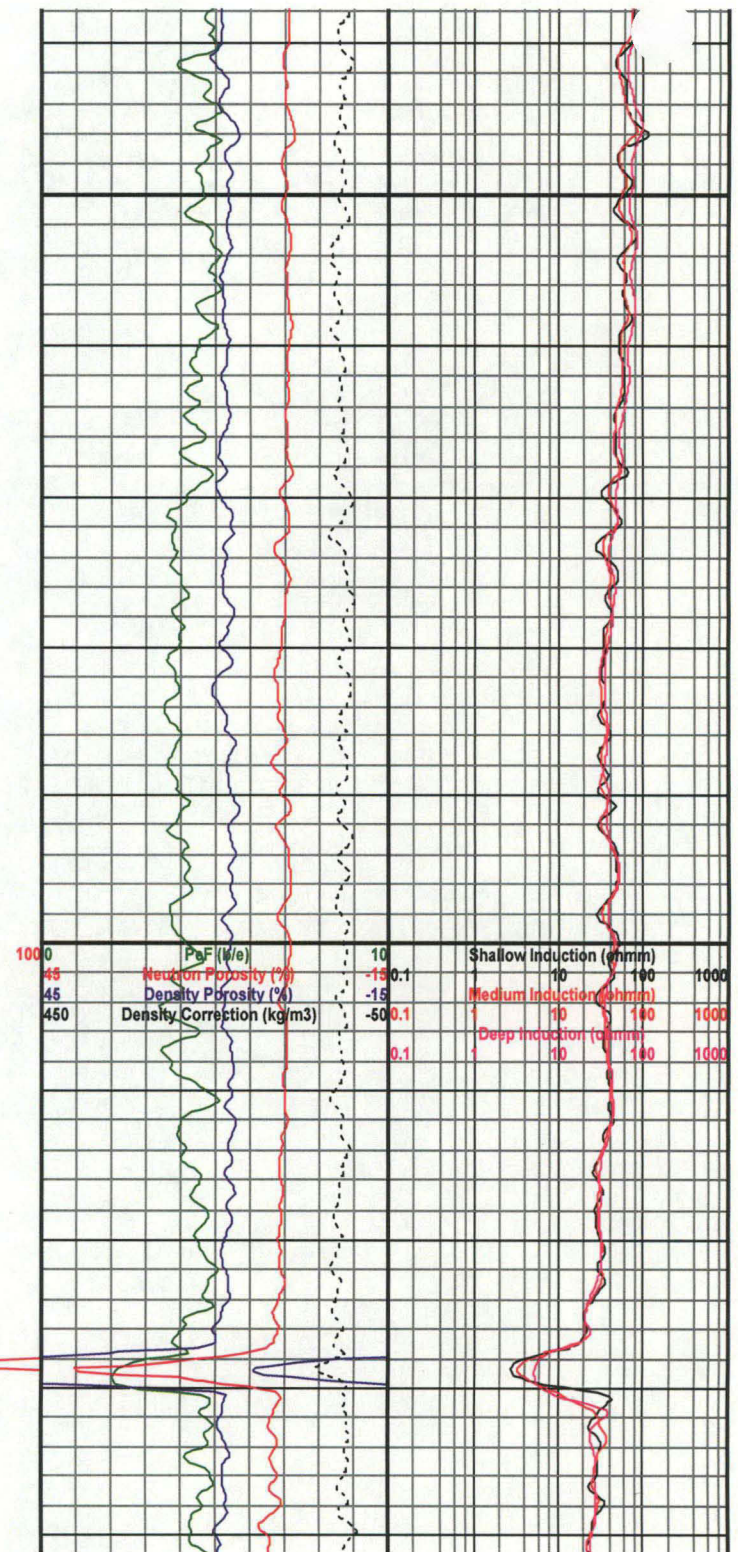
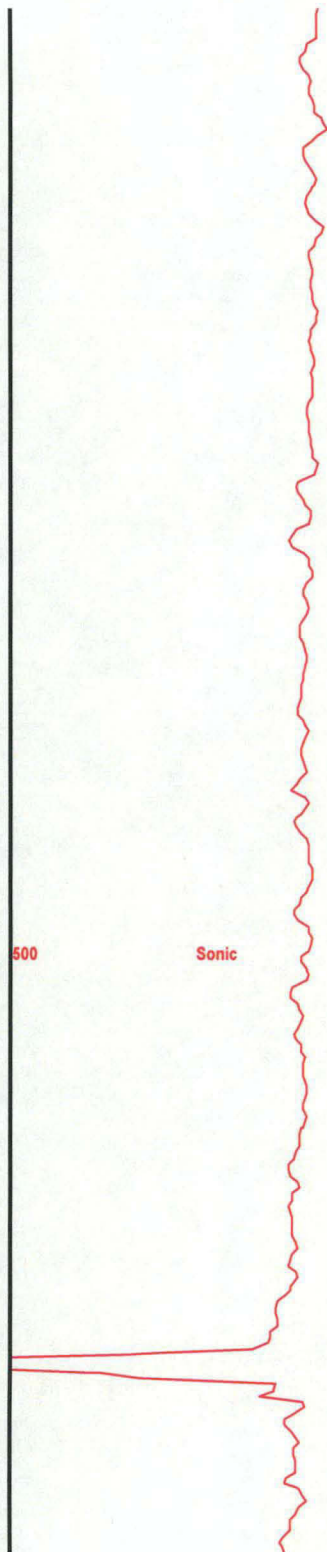
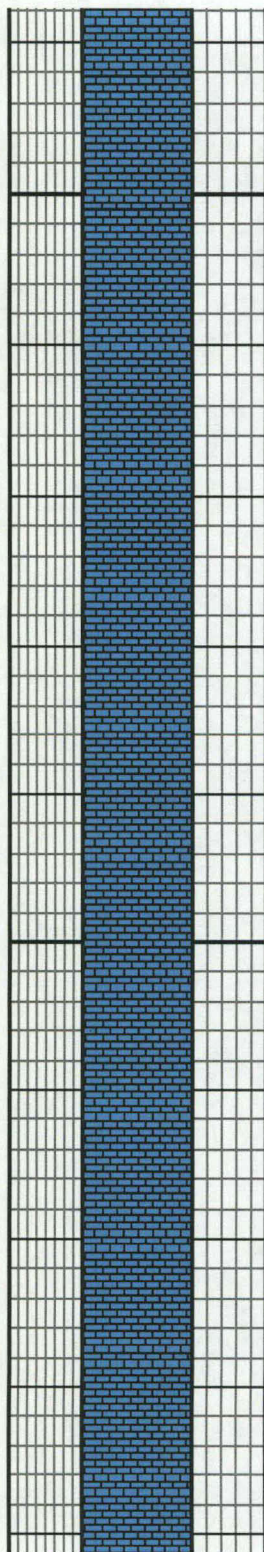
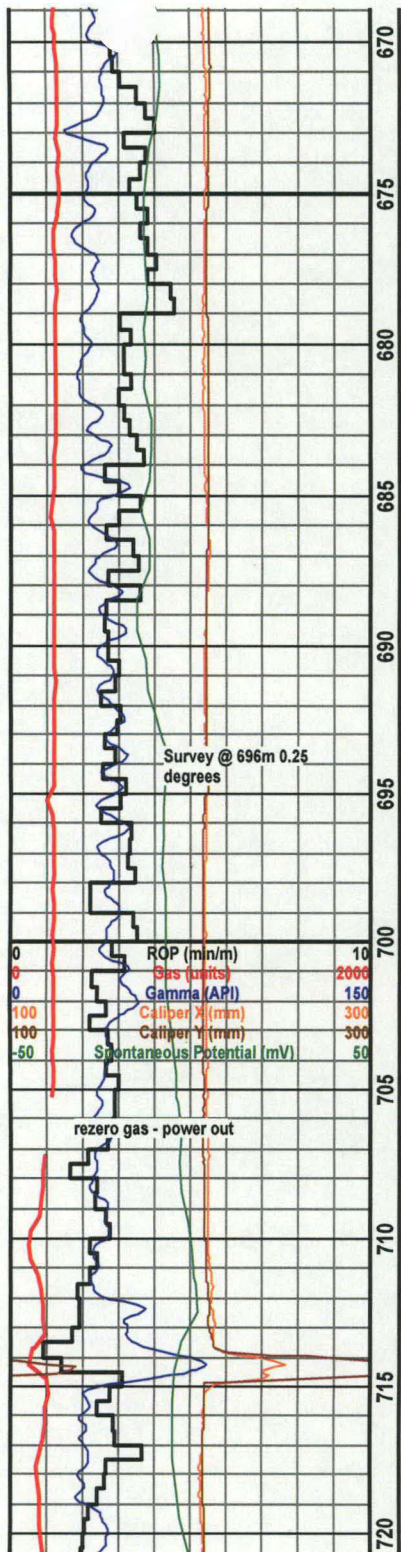
rampy to bry, med
xls, fossil ghosts?, locally roomy
inferred mnr earthy por, tt, no show

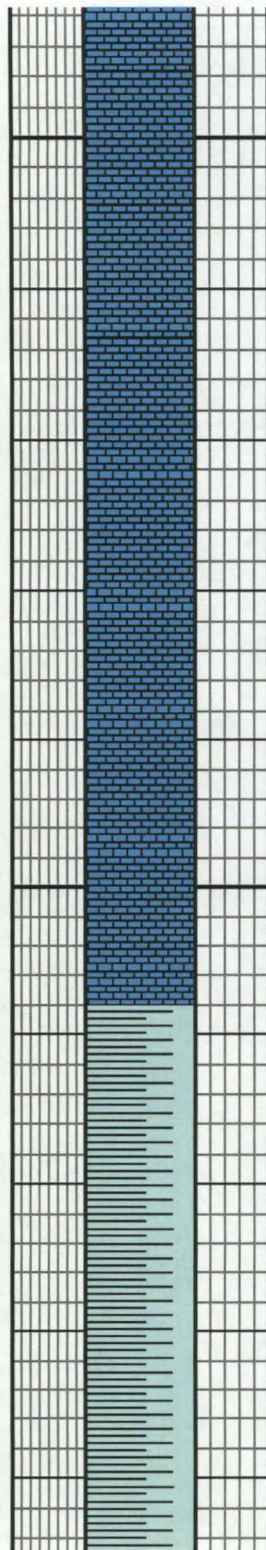
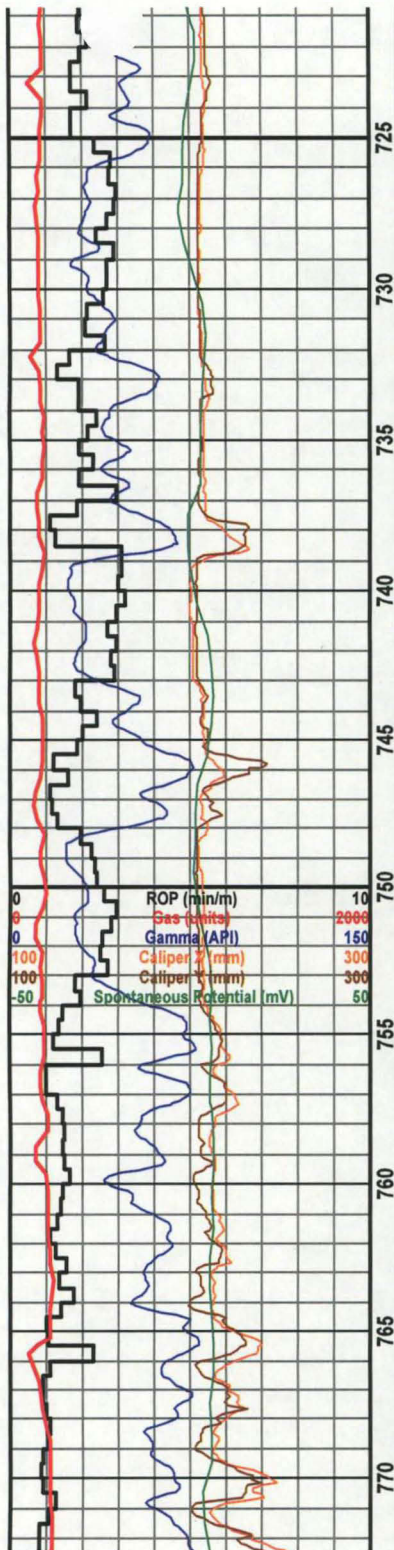
LS, aa, chalky, sl lighter in color

500

Sonic



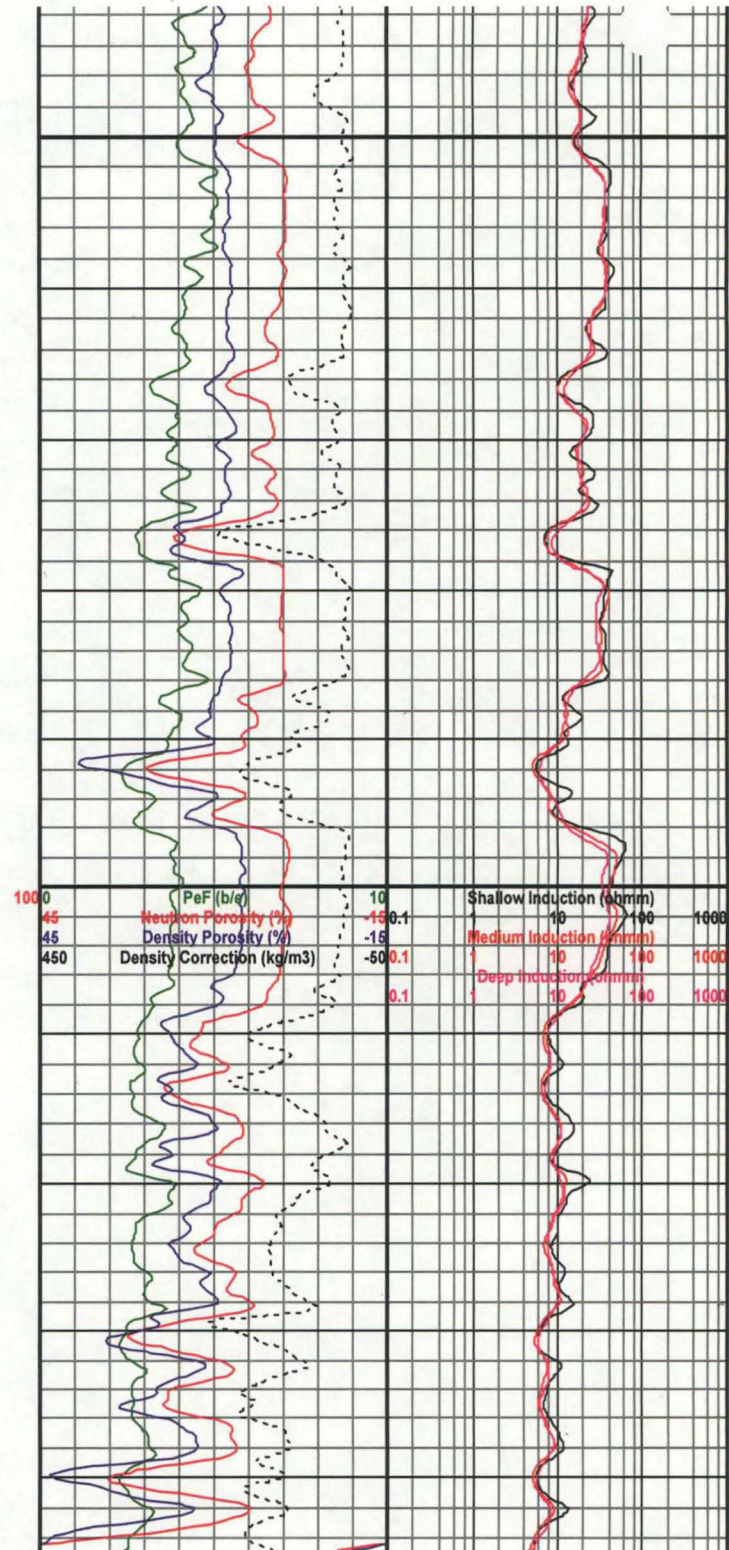


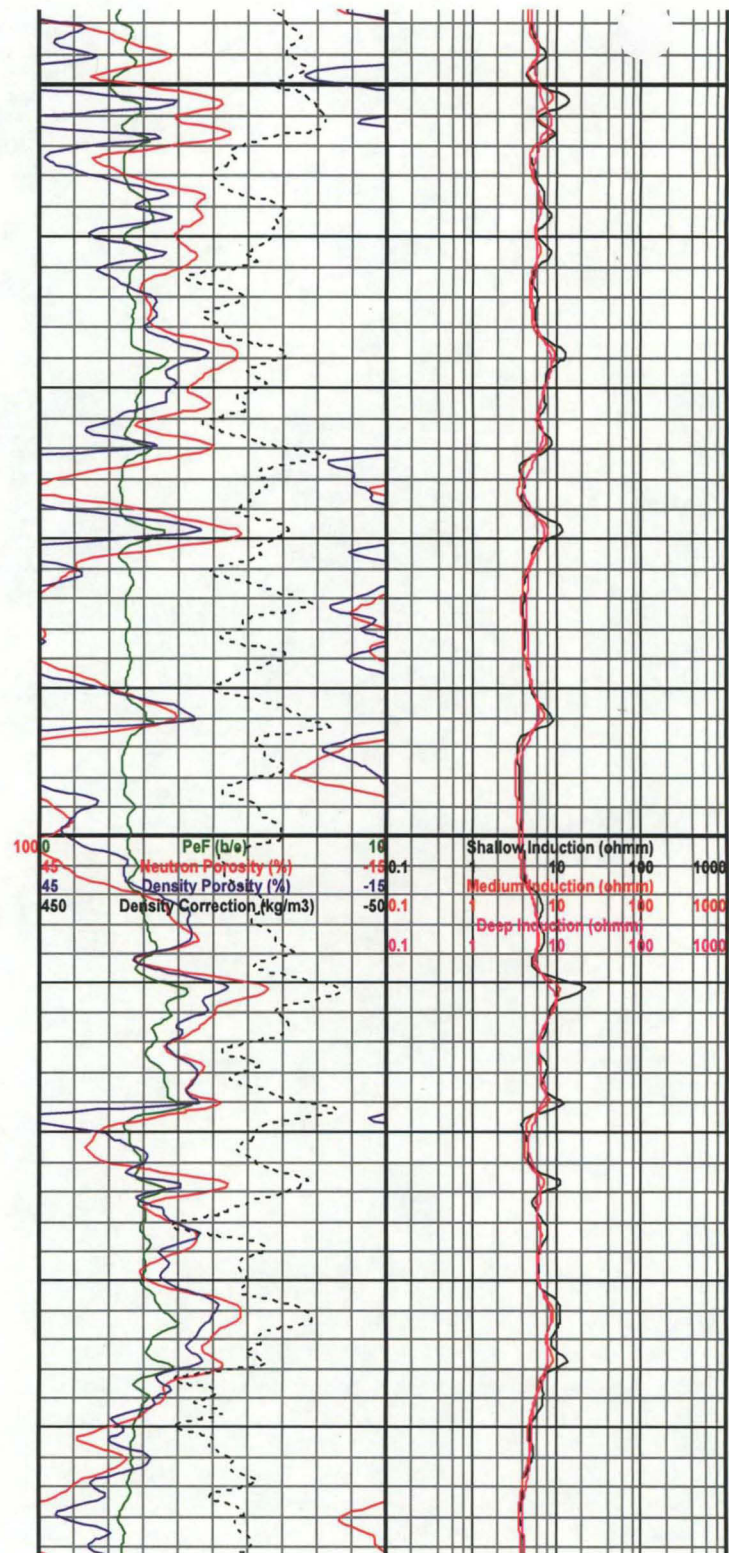
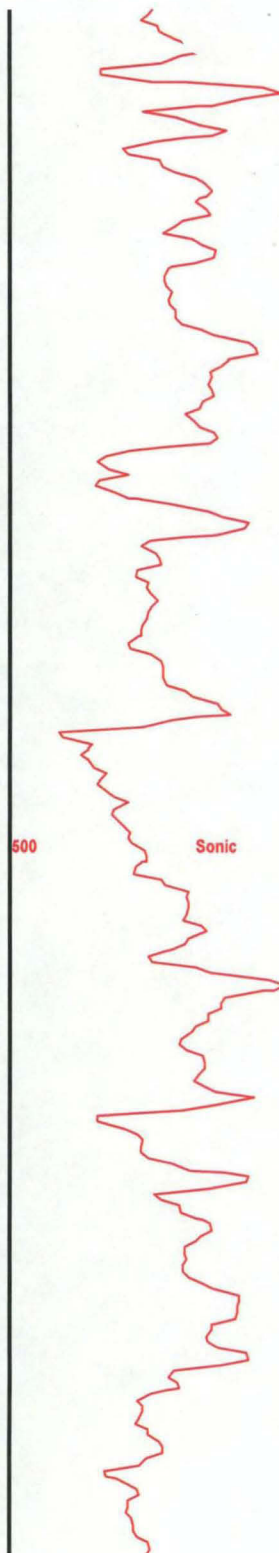
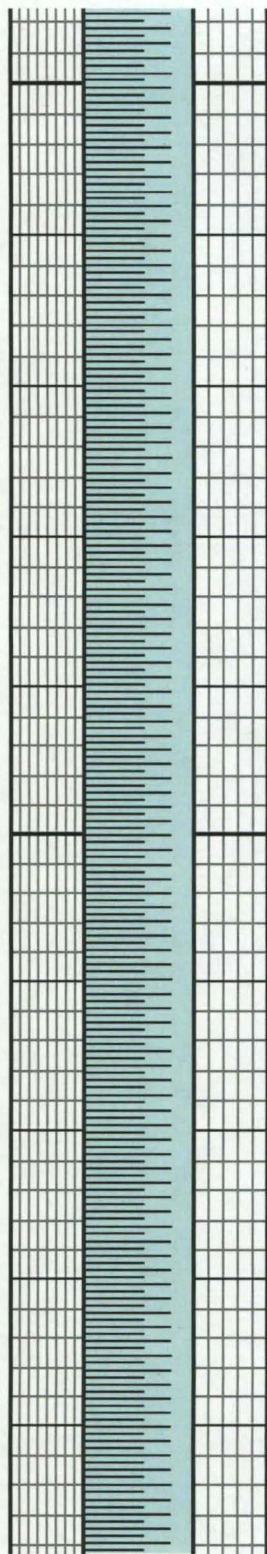
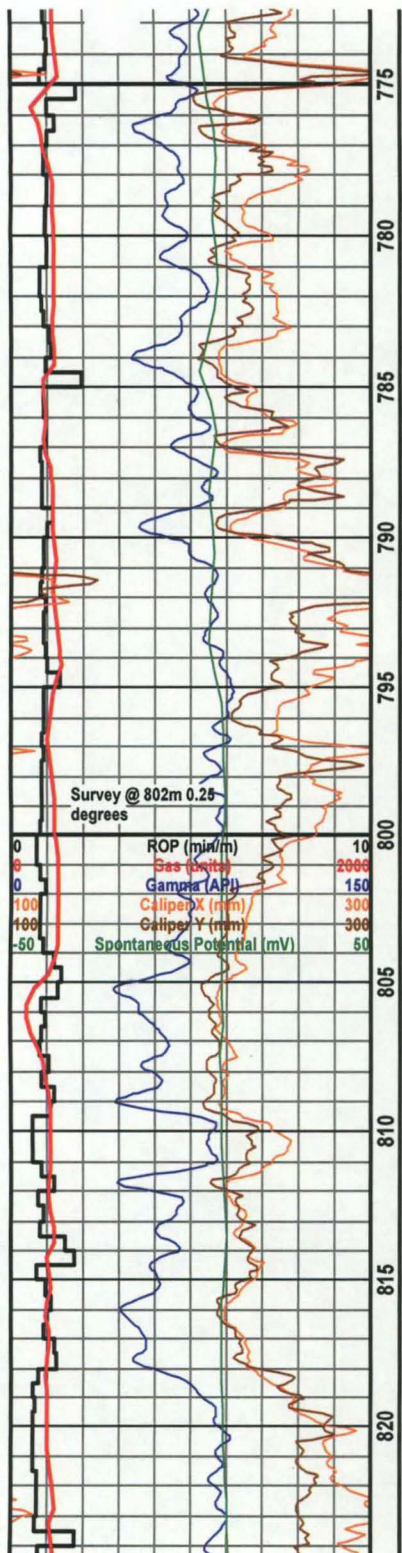


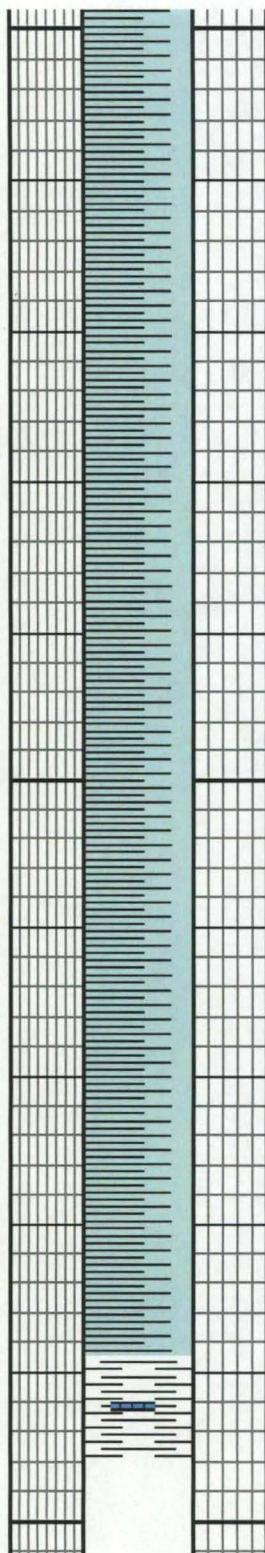
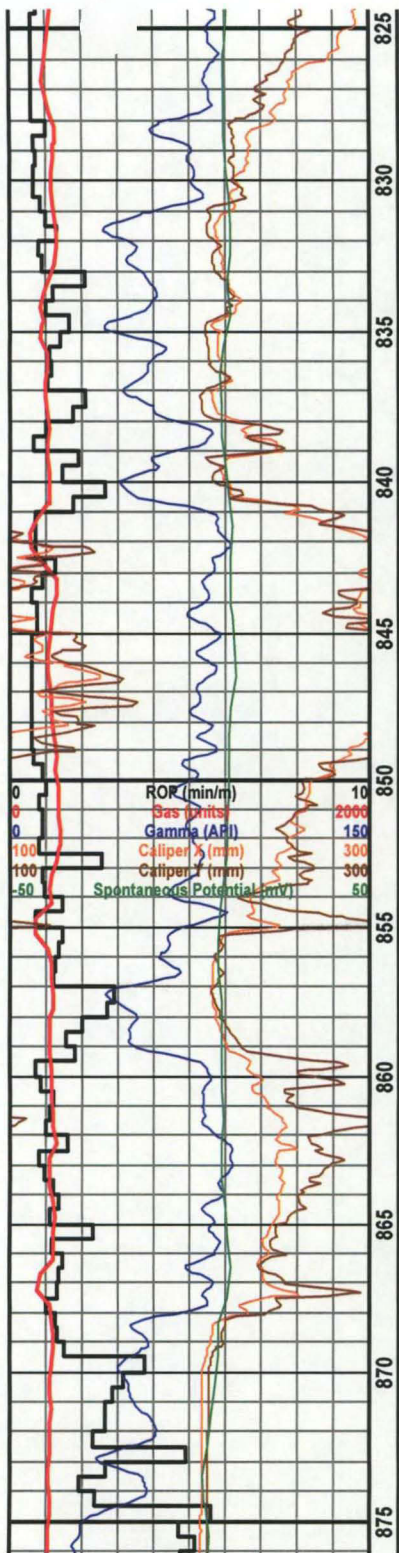
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Sonic

FORT SIMPSON @ 754.2m



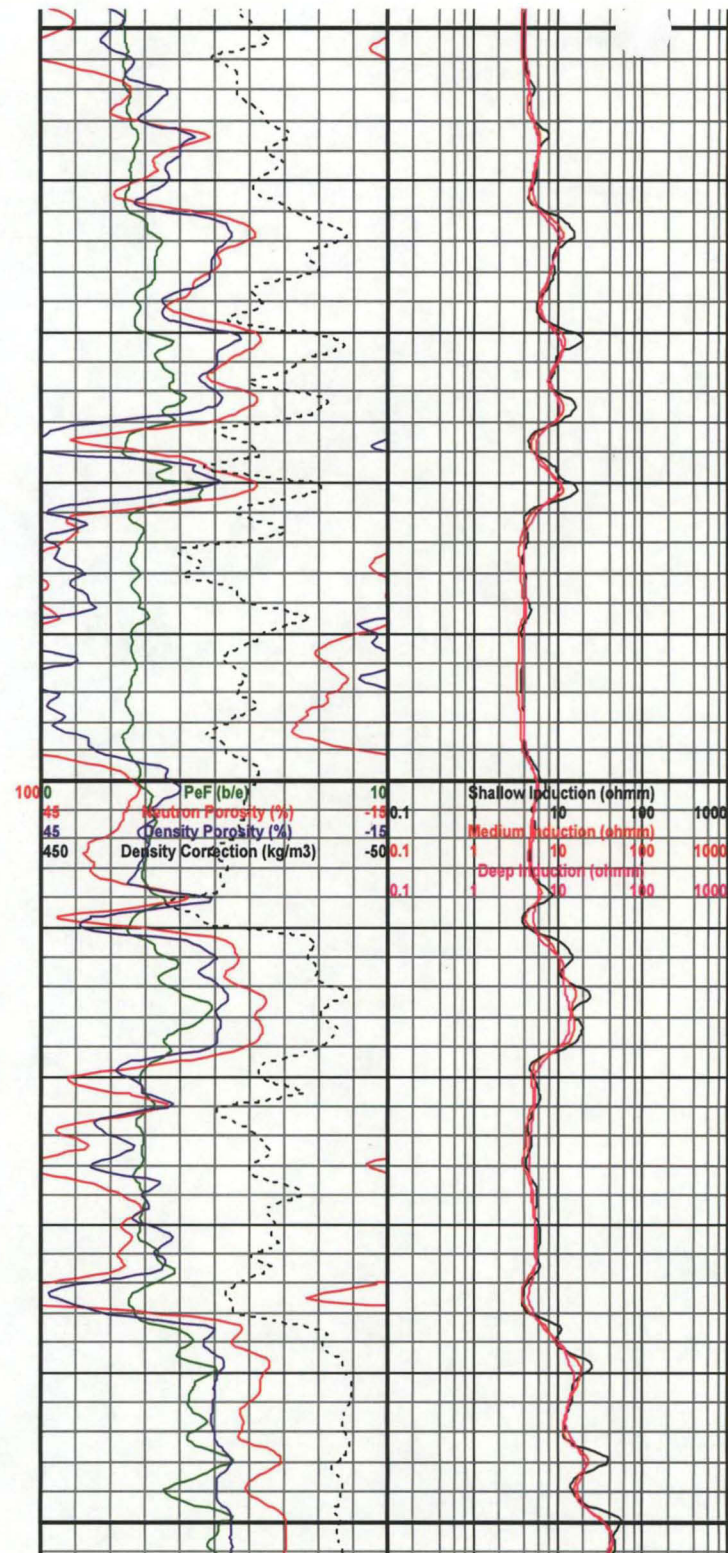


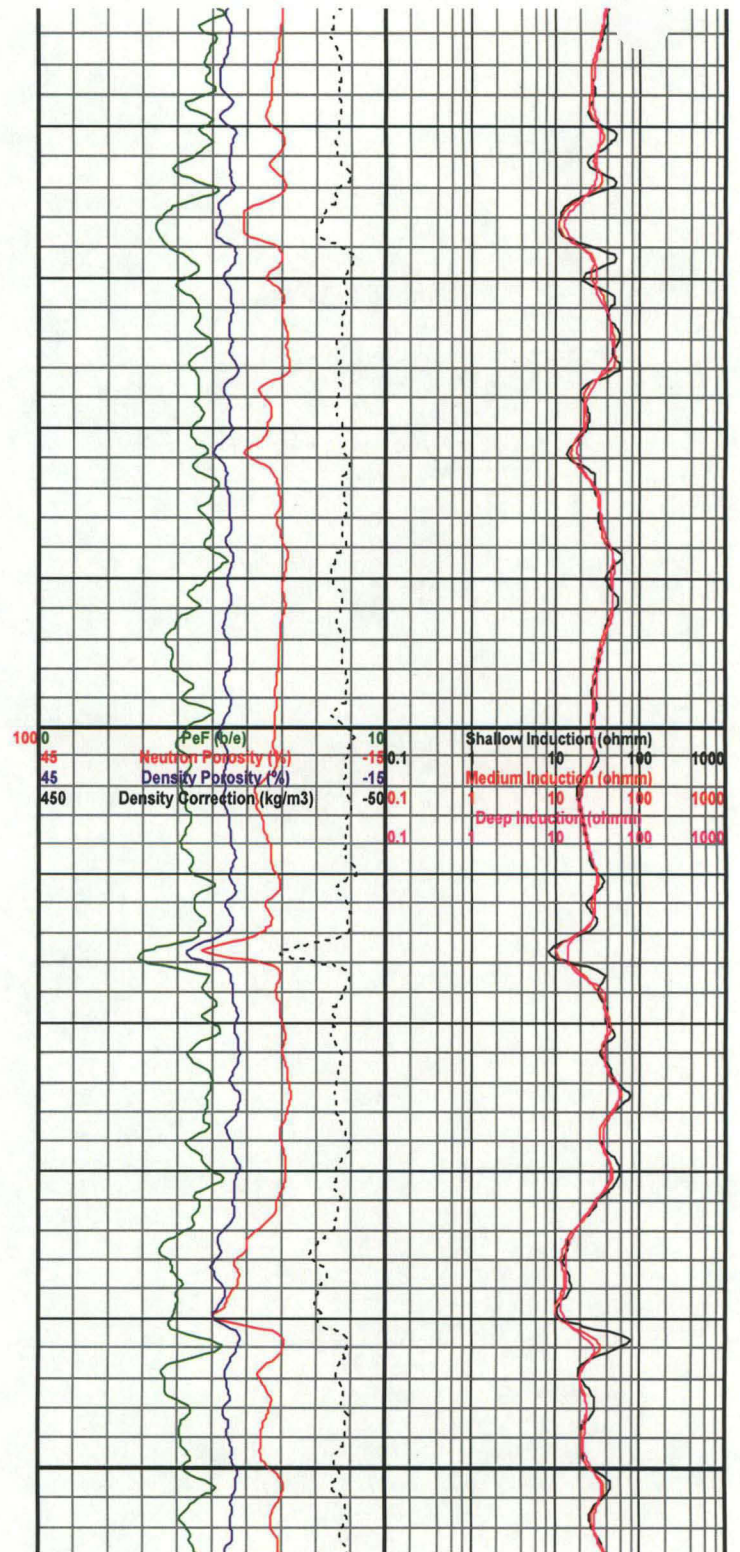
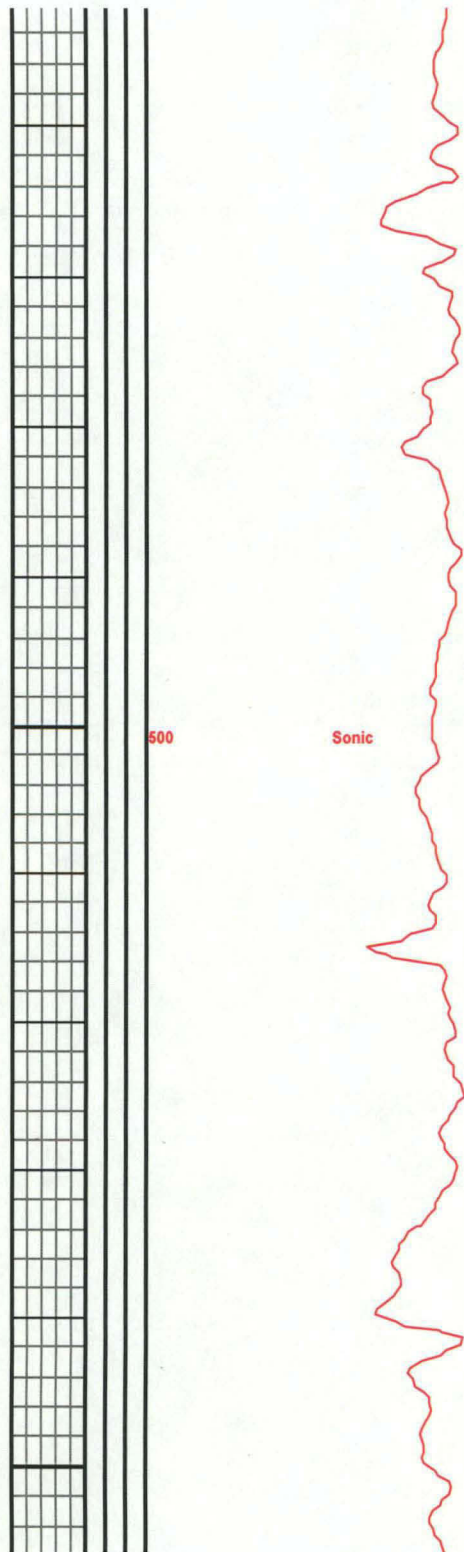
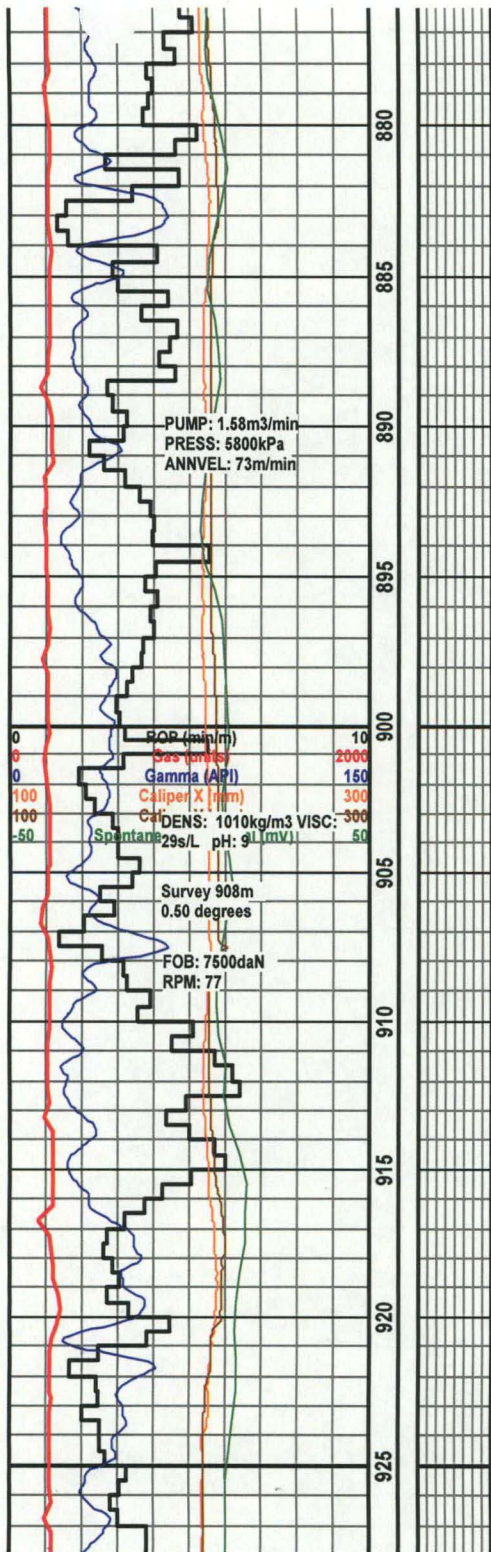


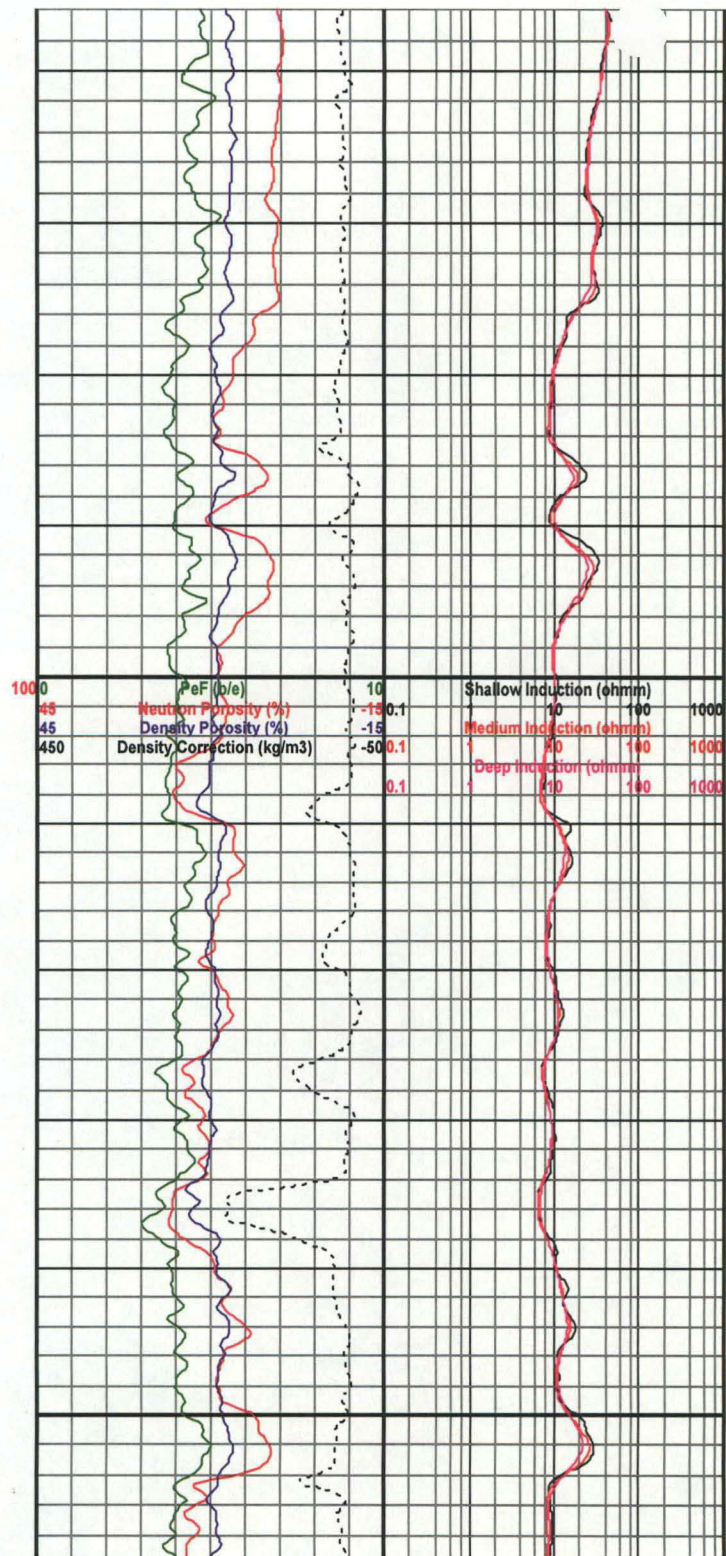
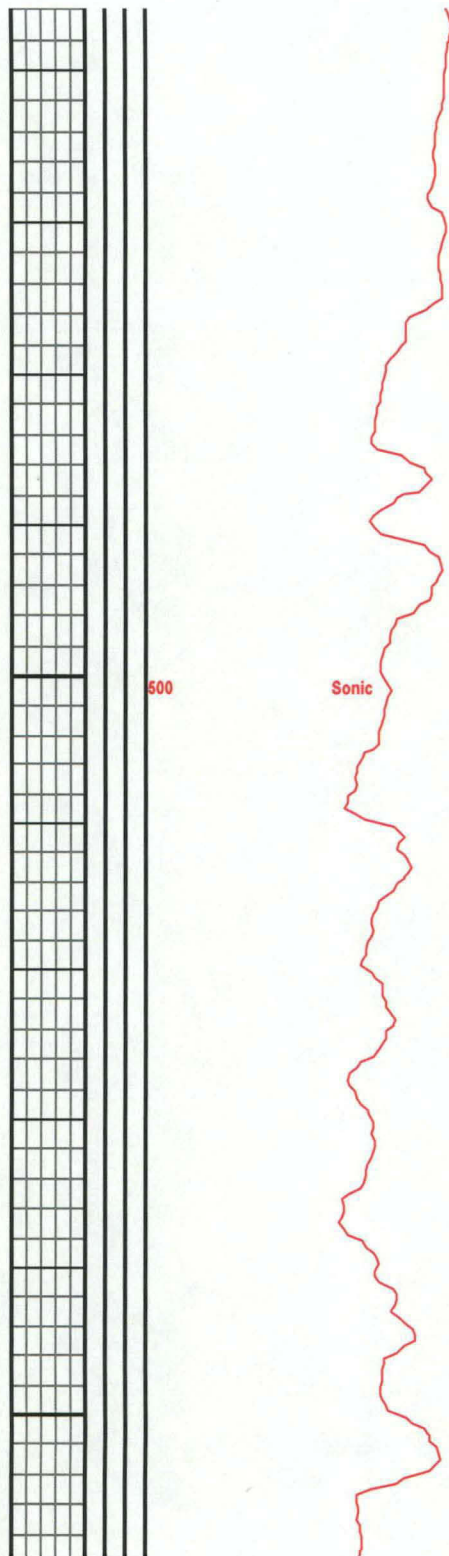
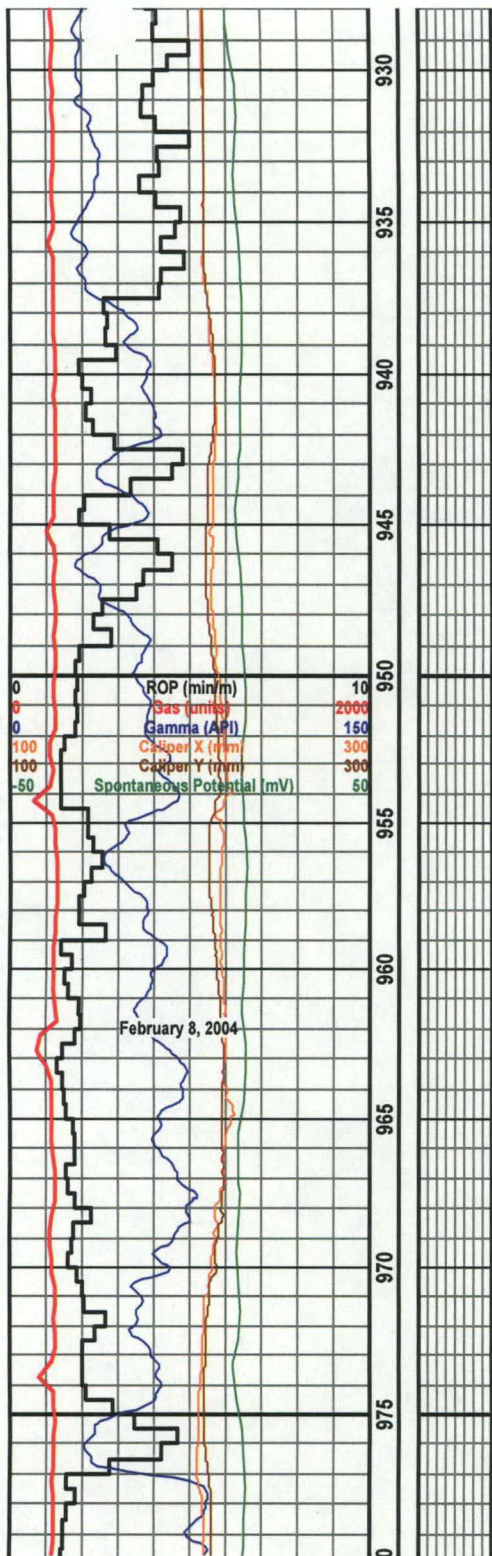
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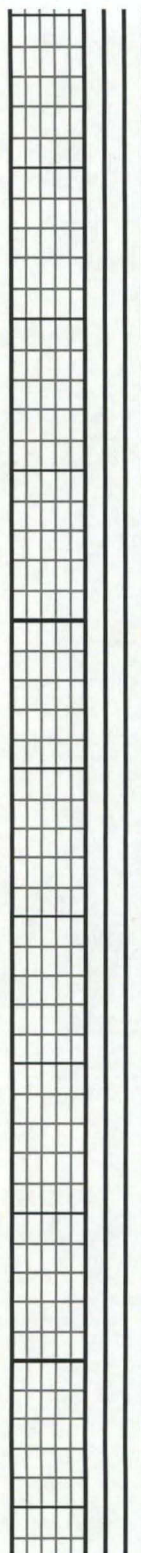
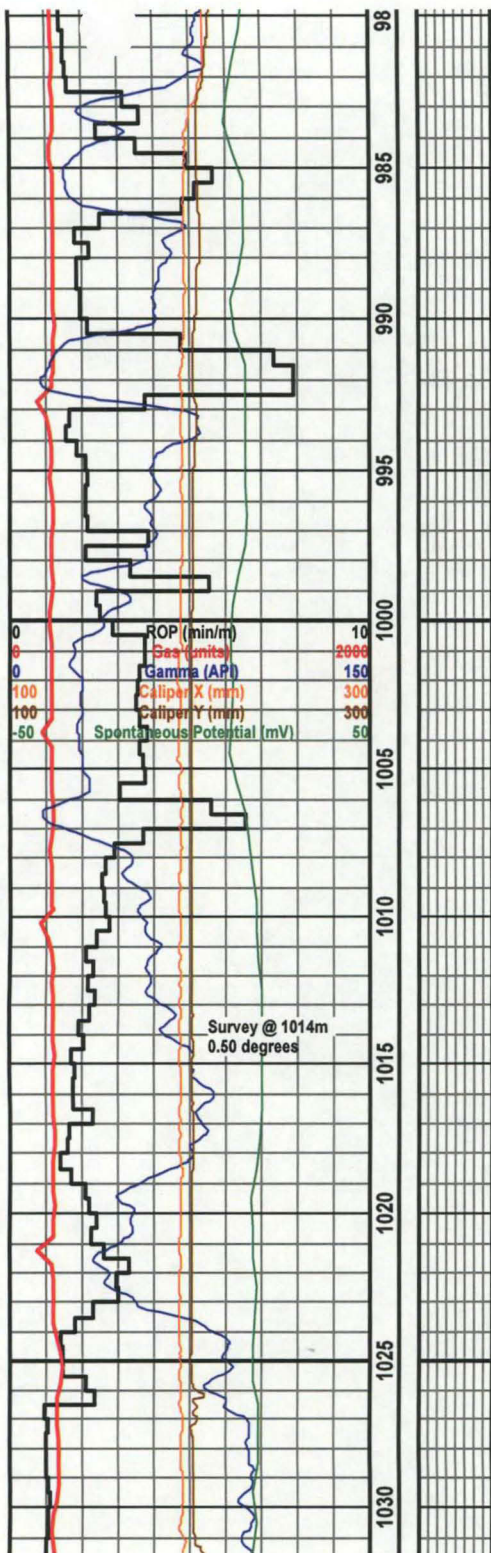
Sonic

TWIN FALLS @ 869.5m



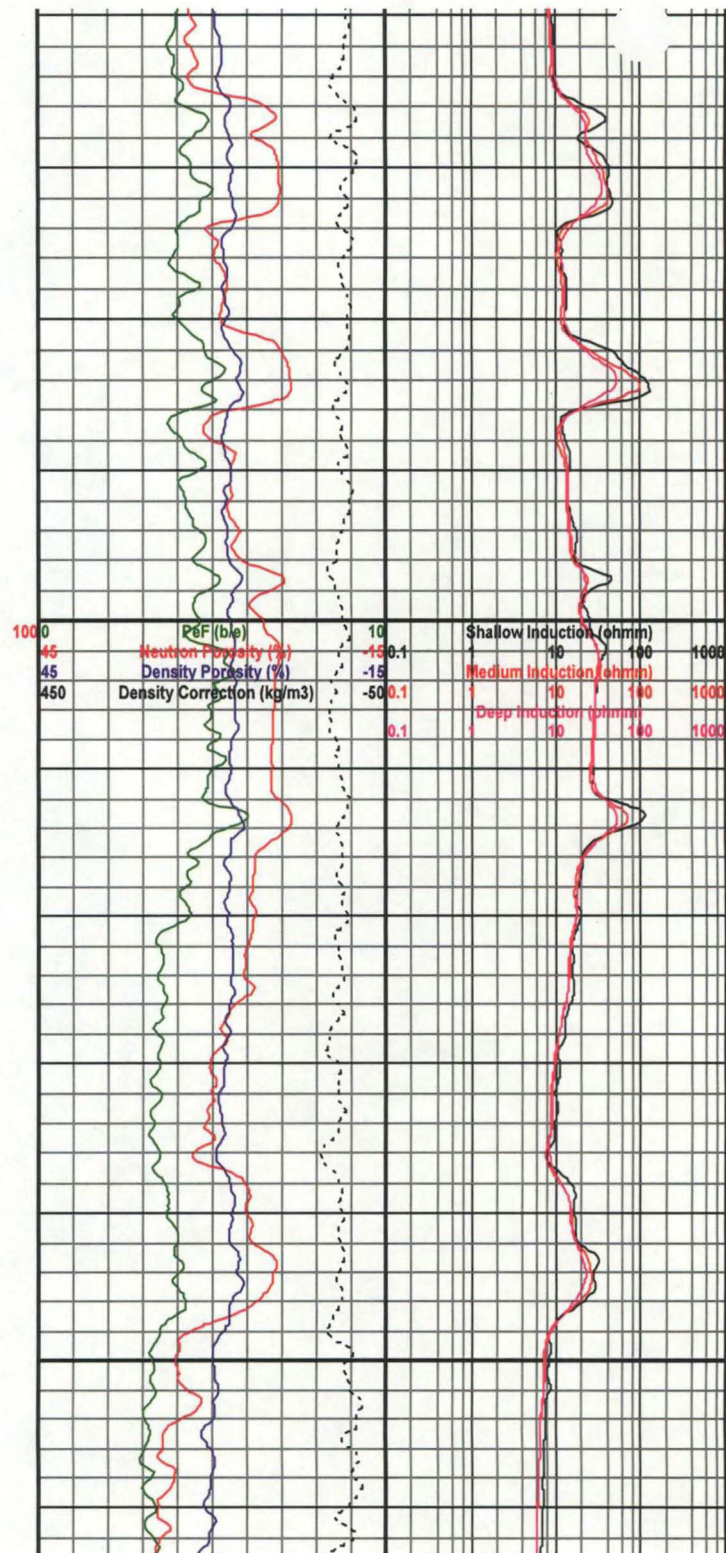


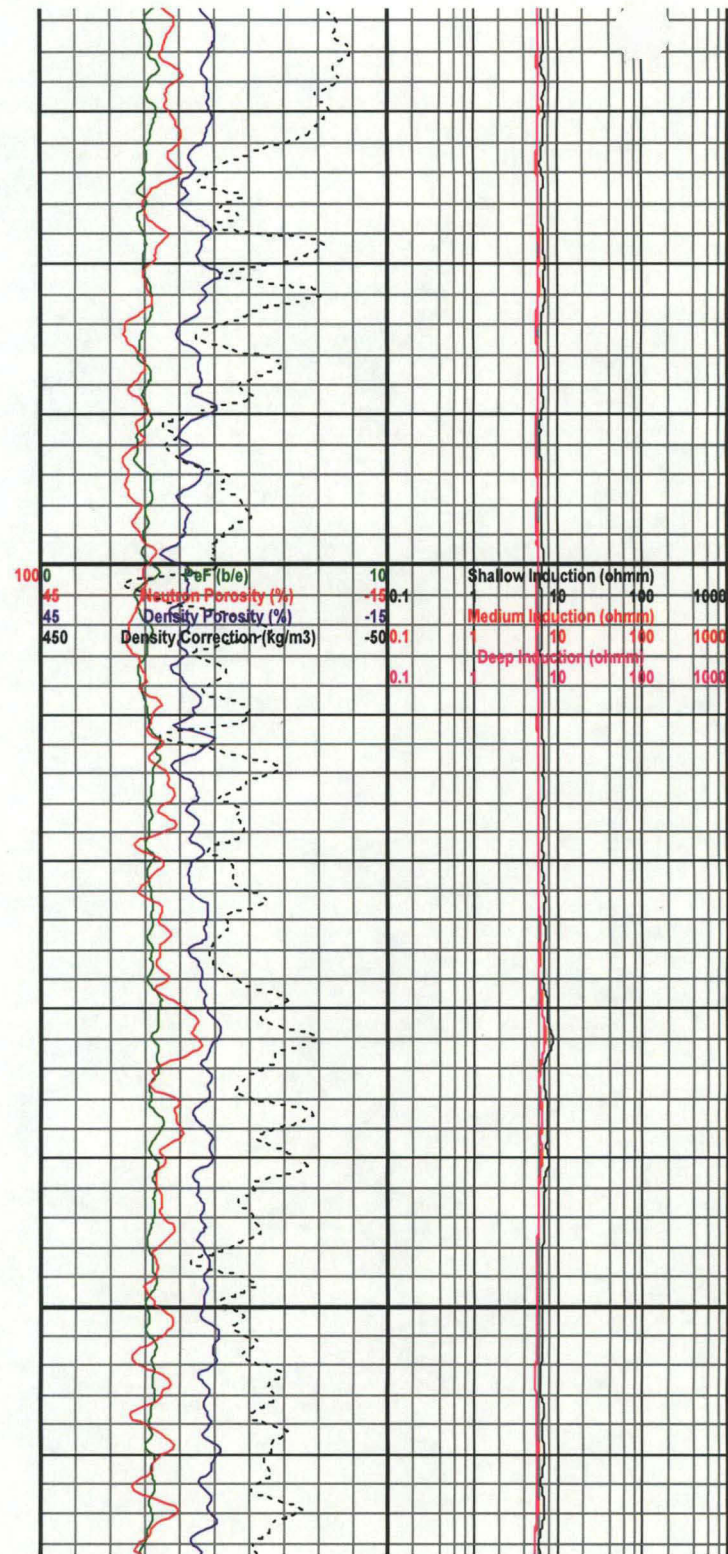
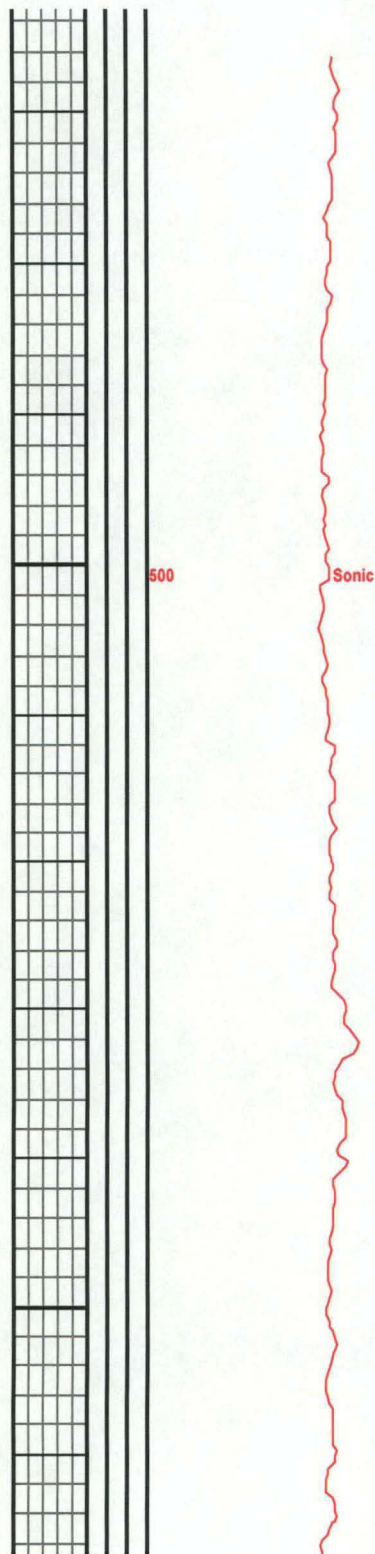
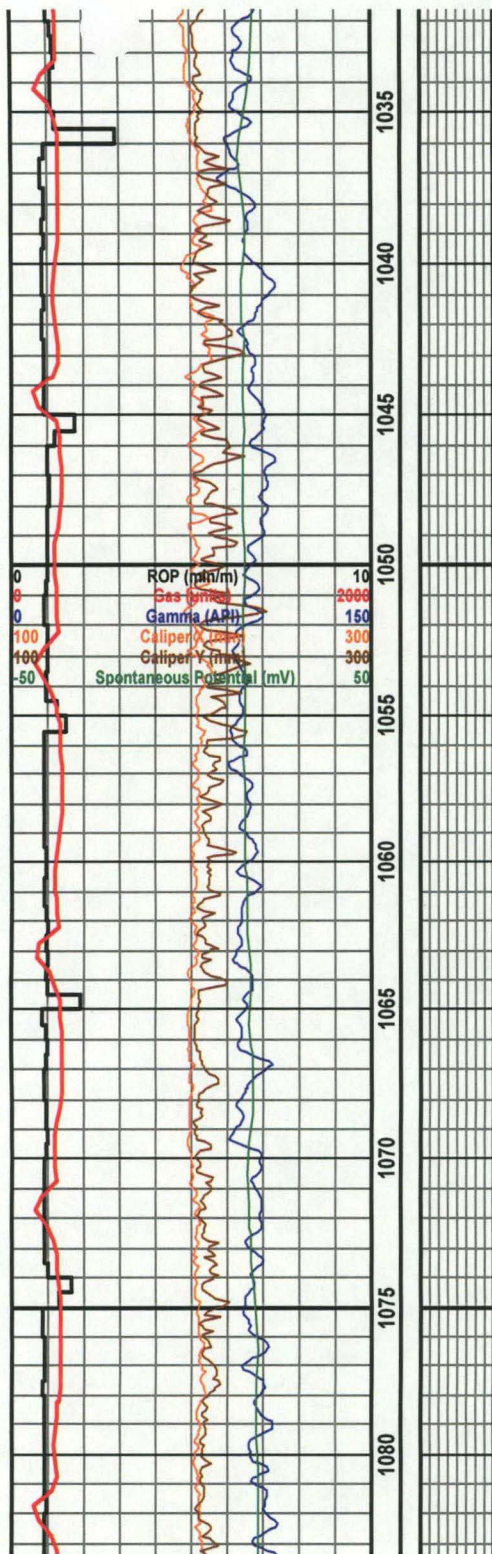


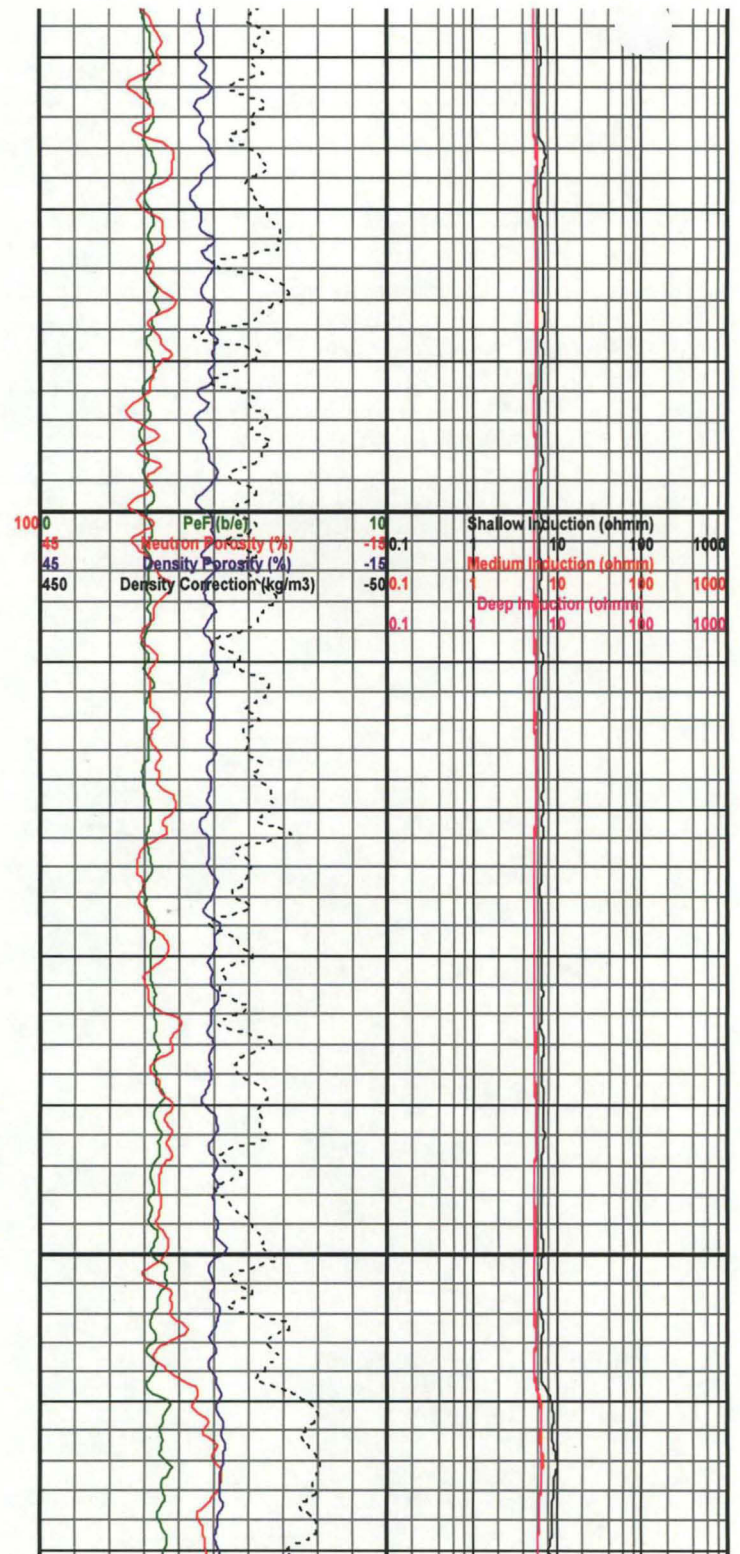
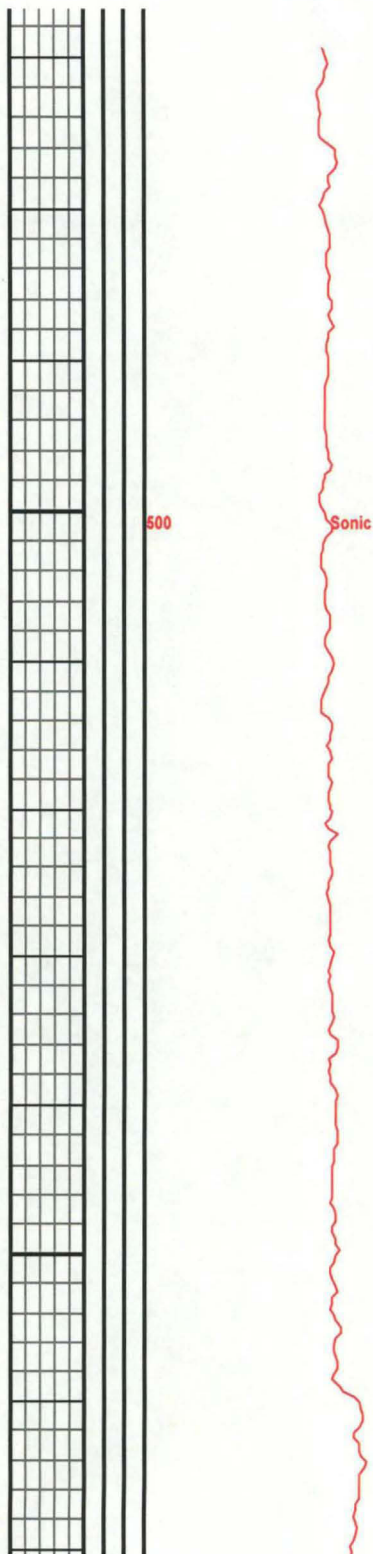
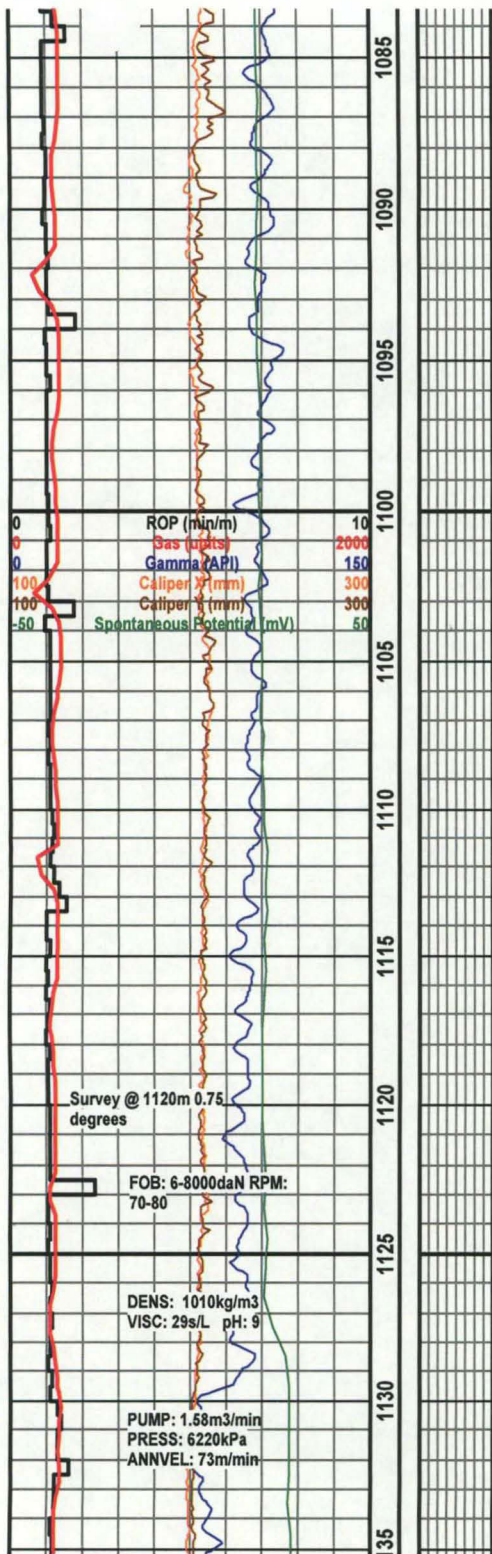


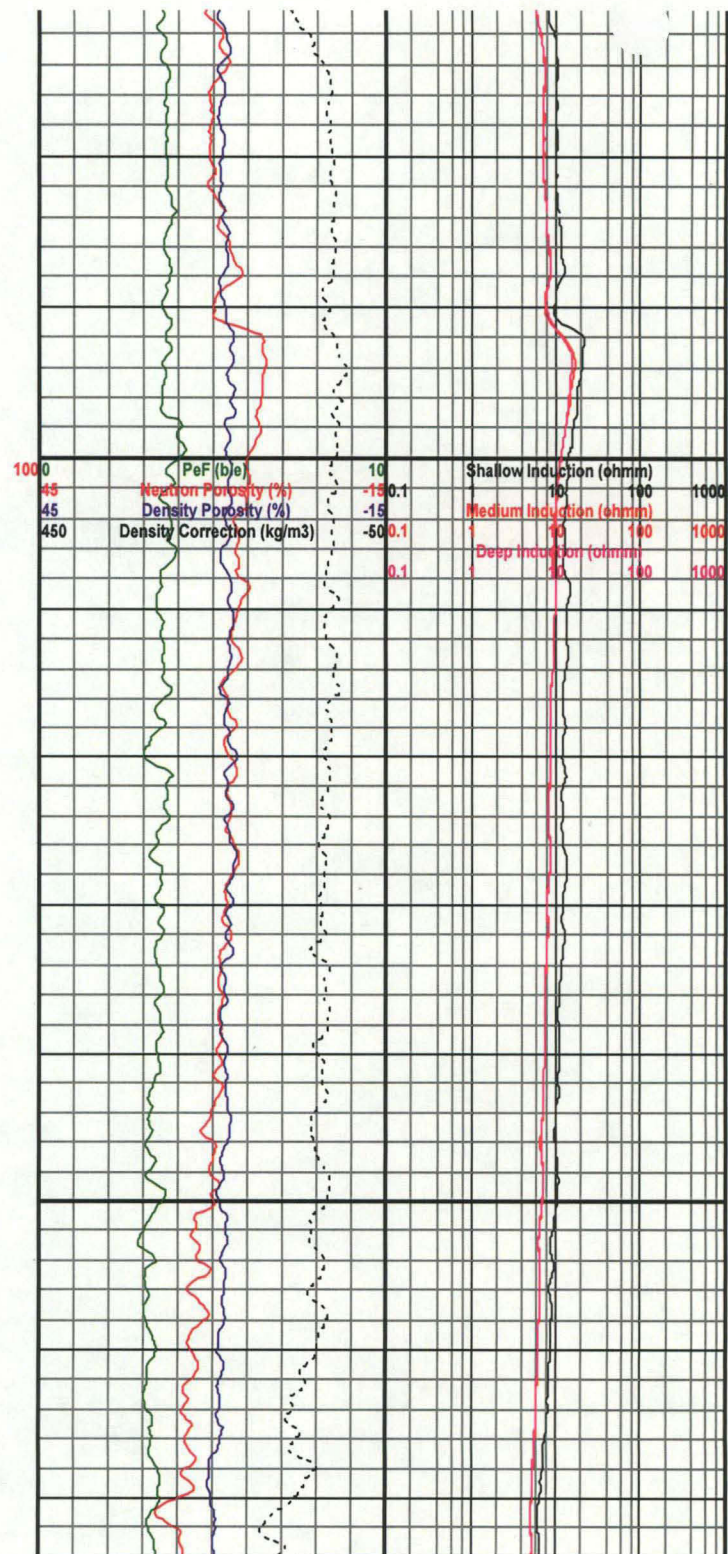
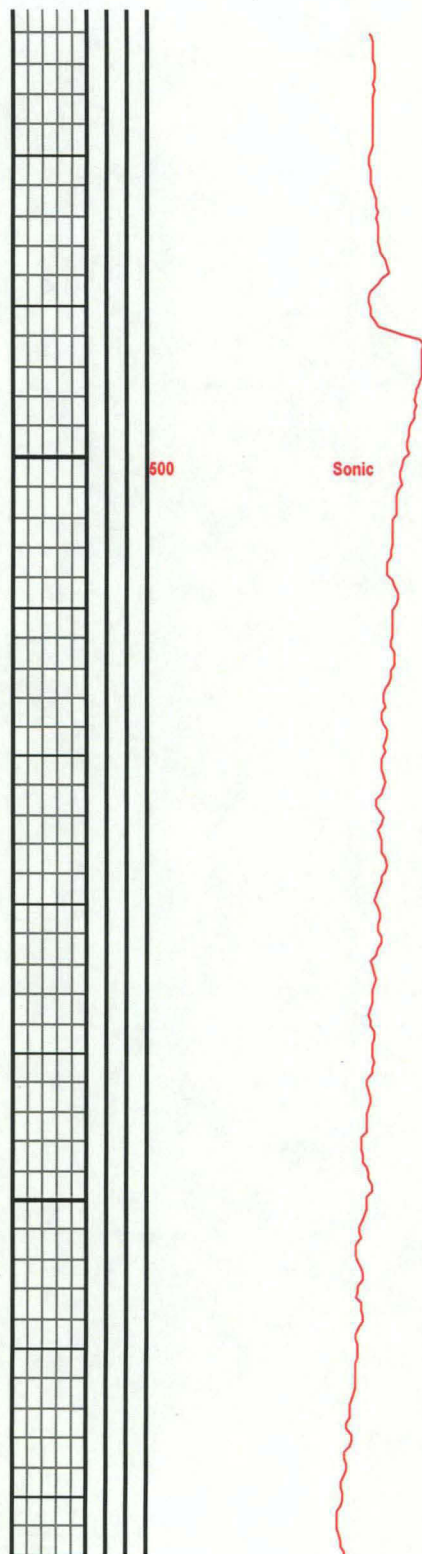
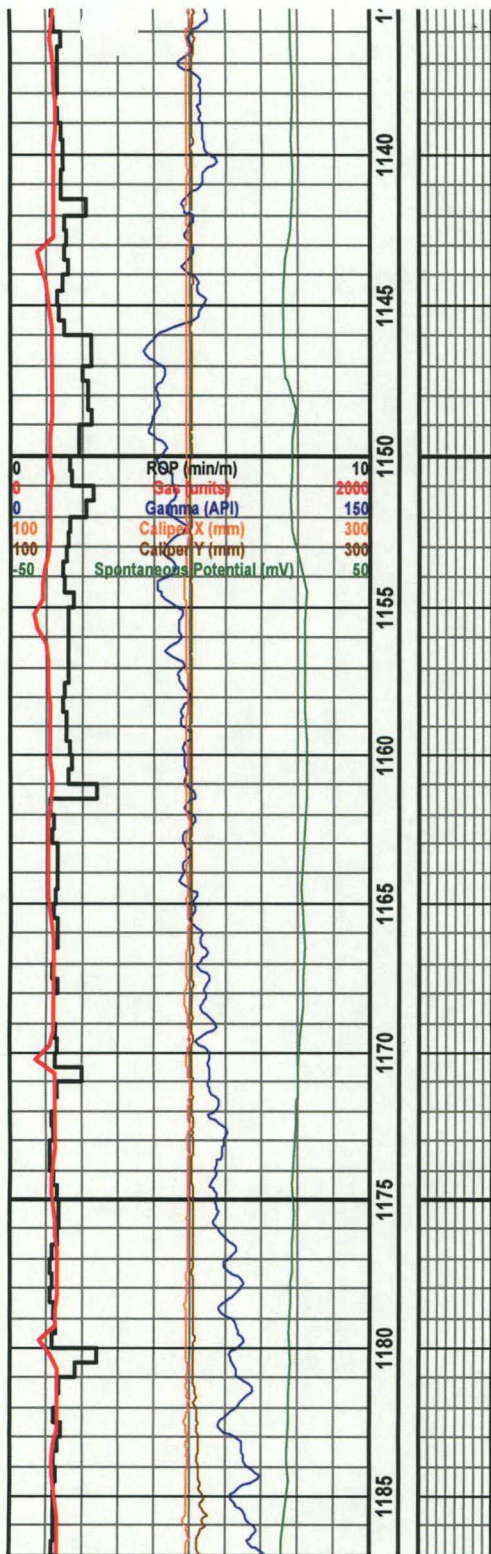
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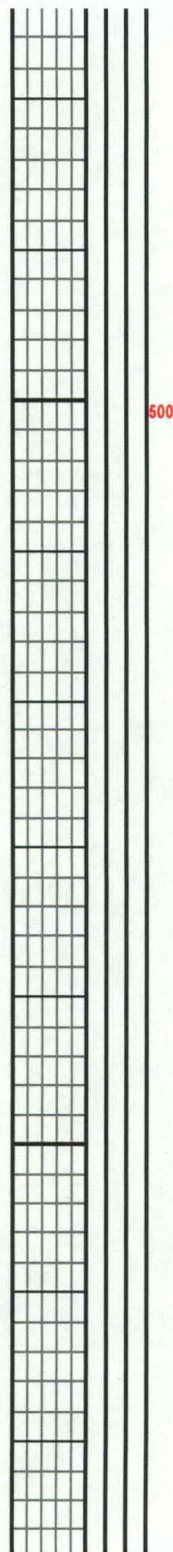
Sonic



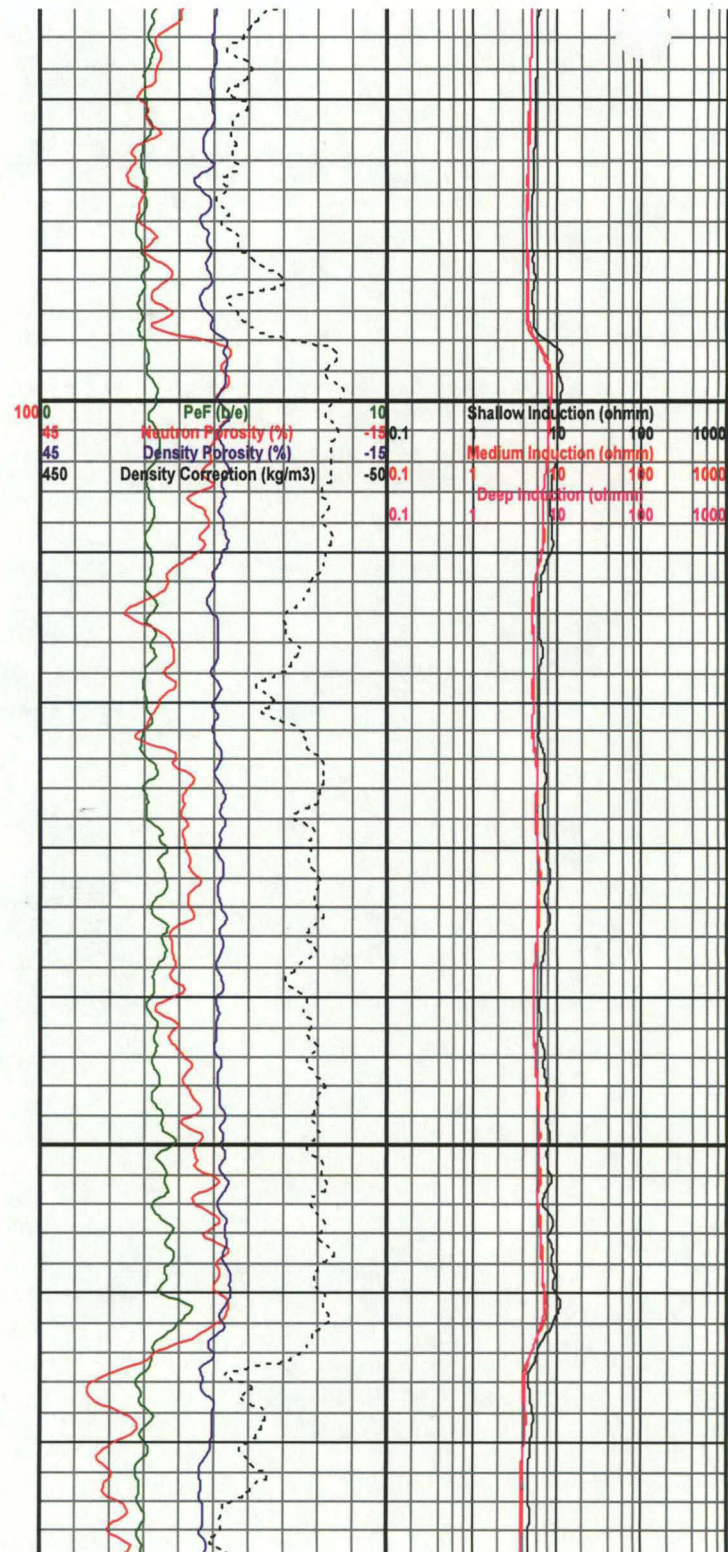


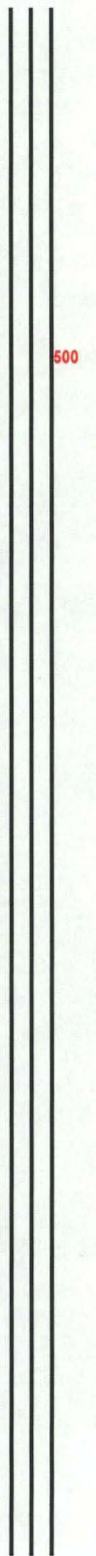
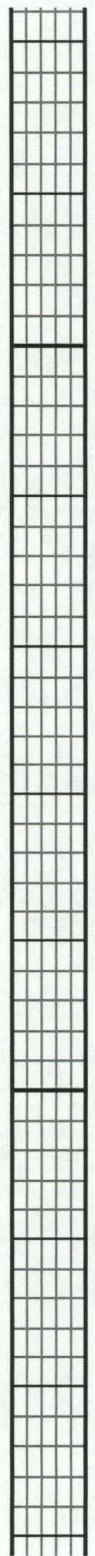
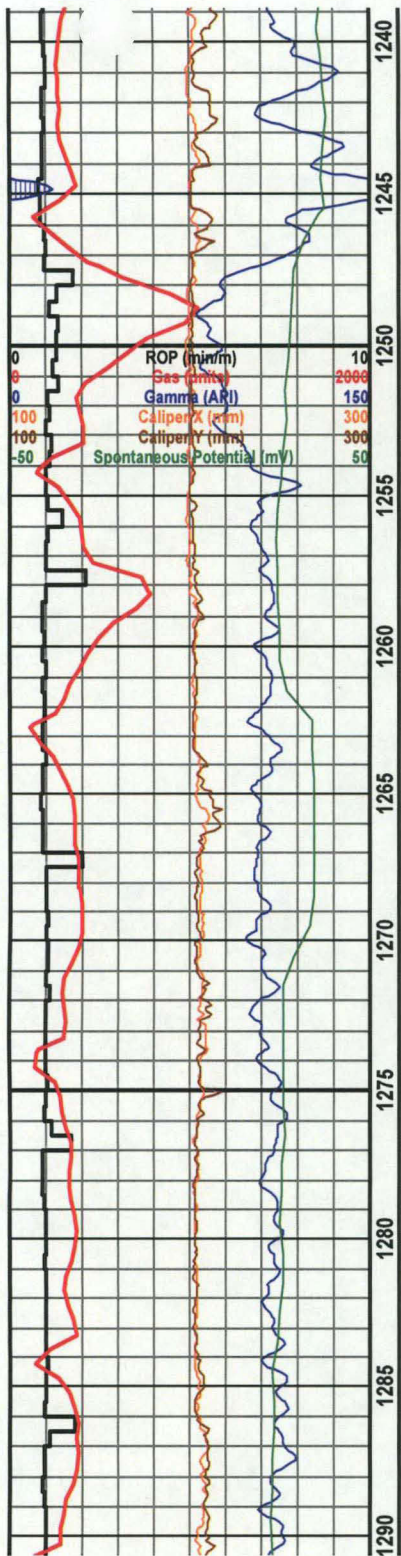




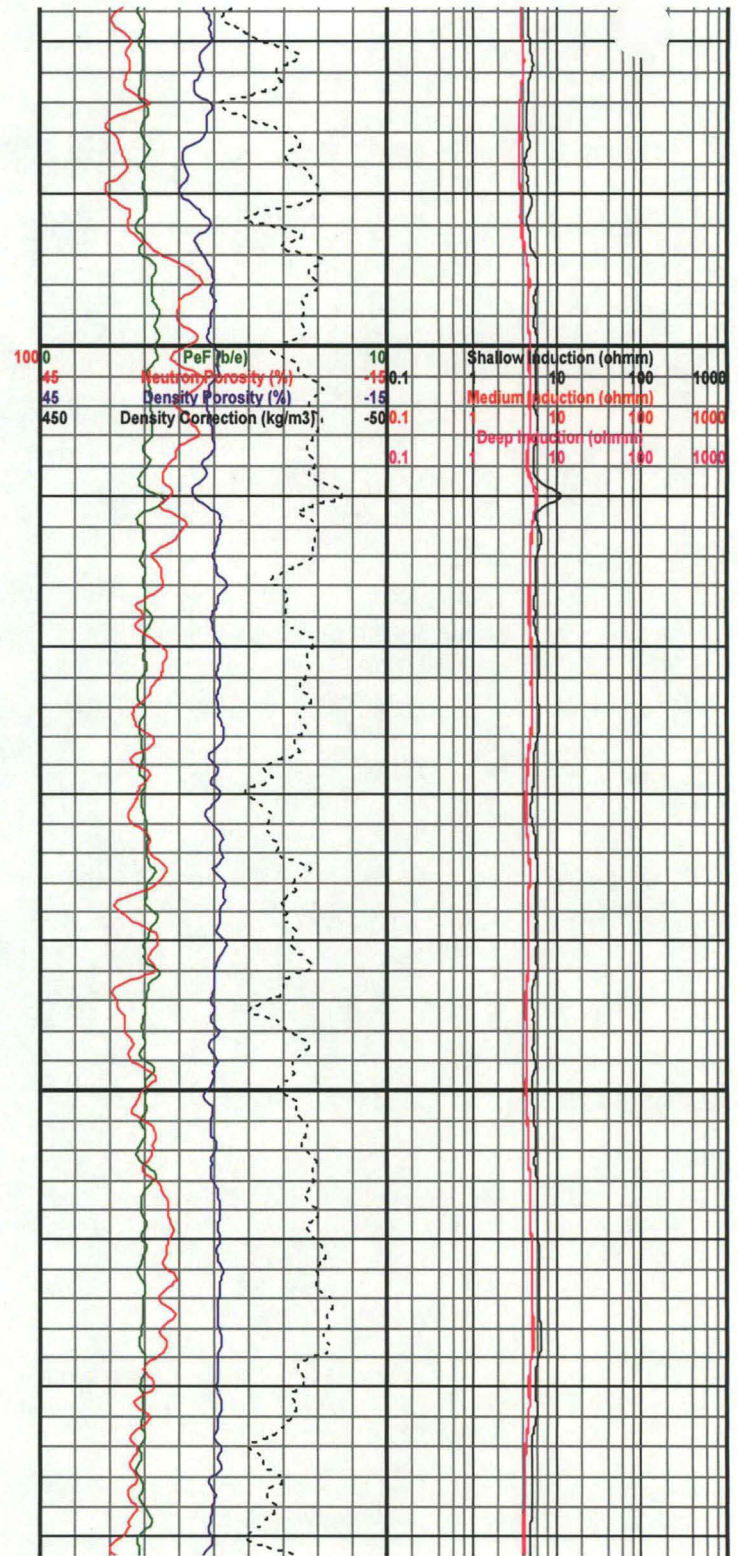


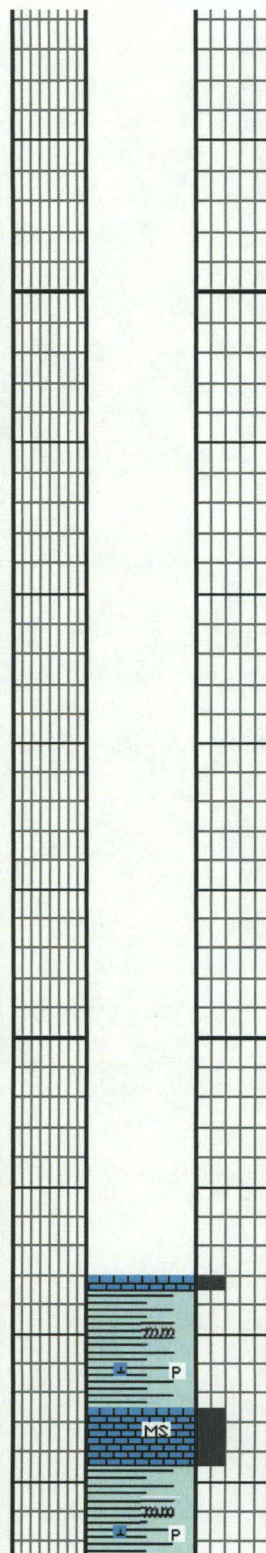
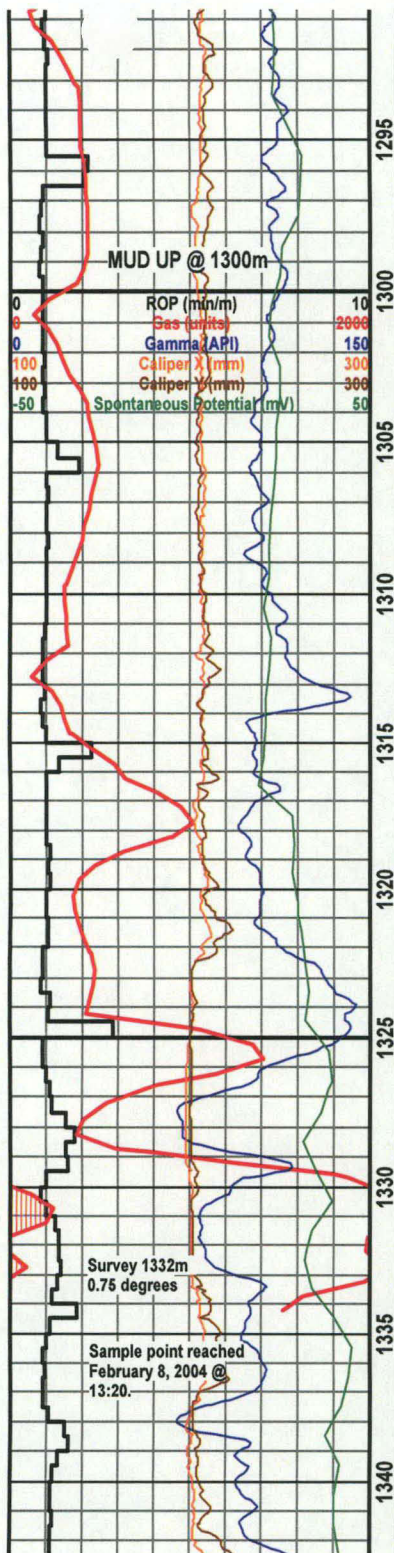
500





500

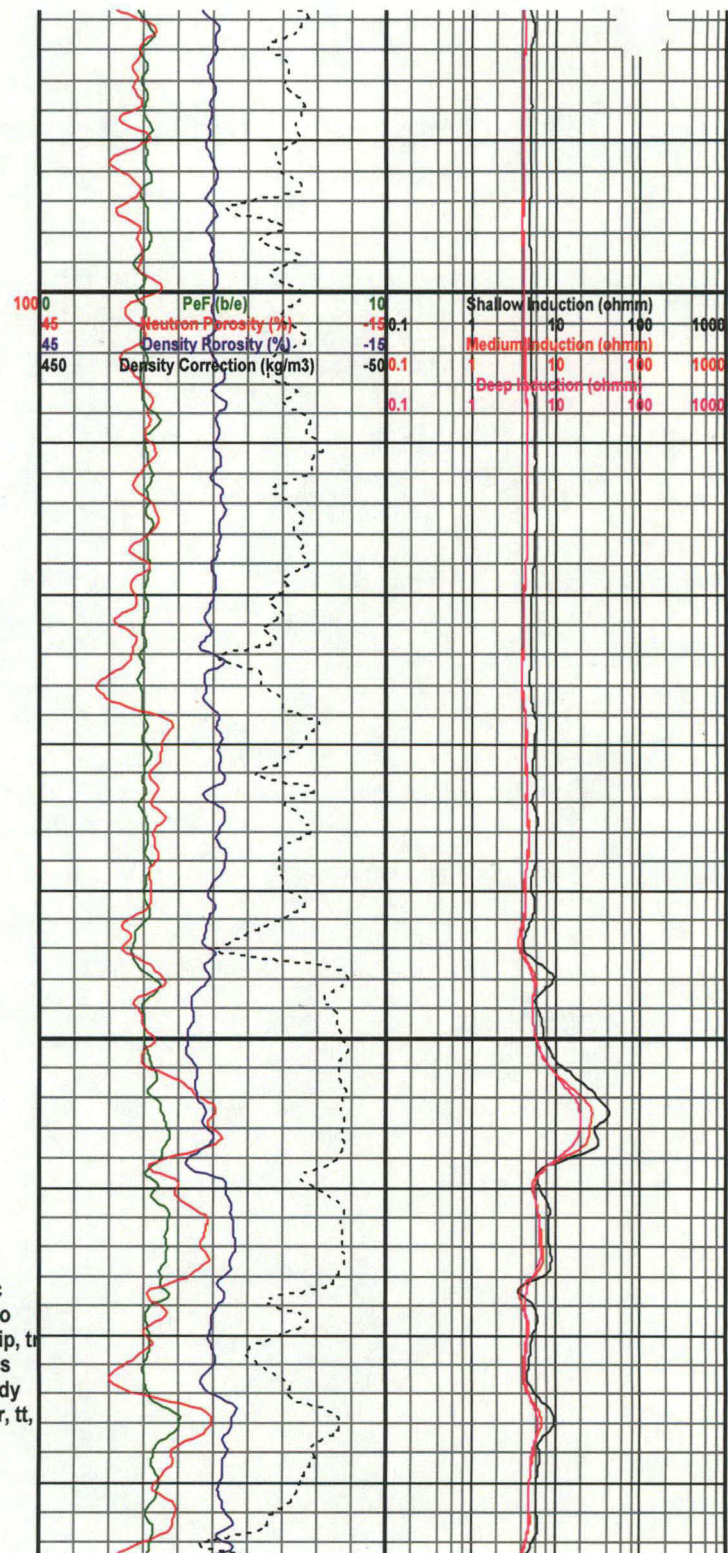


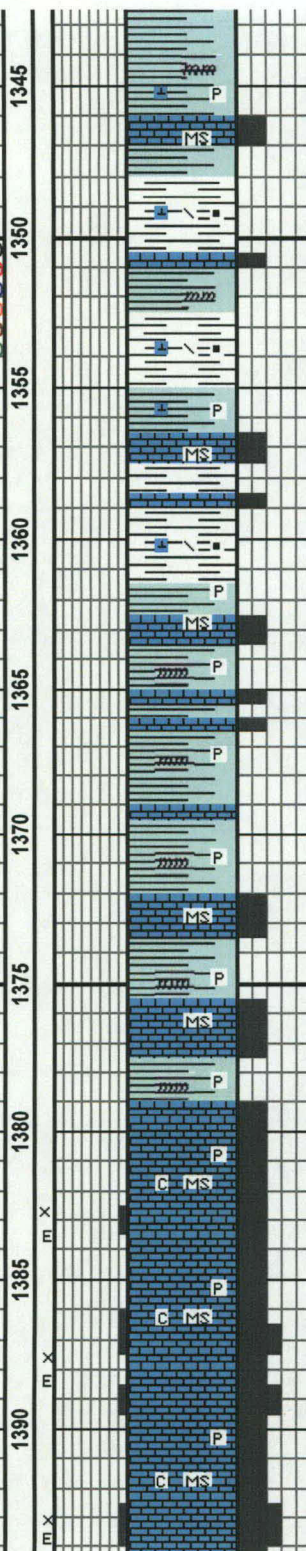
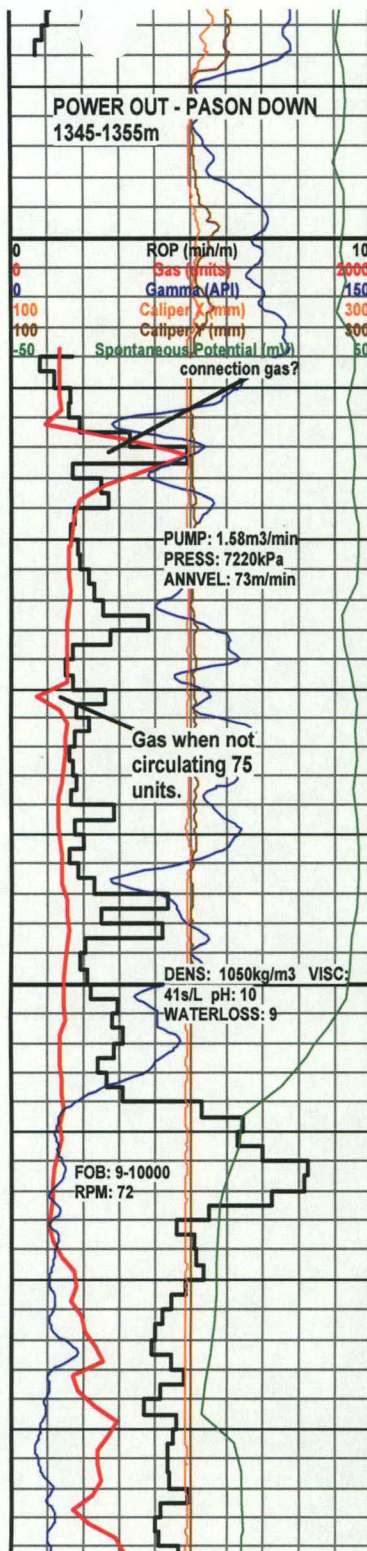


500

Sonic

SH 85%, 1) med gy, gy to sl gn gy, v calc grdg to shaly ls, dull to mmica ip, platy to blk, sub fis to frm, smooth to waxy tex ip, t pyr, 2) dk brn to blk, mmica ip, bkly, bitns ip?, LS 15%, off wh to lt gy, crptxl to predy mcxln, arg mudst, lumpy, local desm pyr, tt, no show





MUSKWA ? @ 1348m

SH 70%, gy brn to med brn, dk brn to occ blk, bitns appnc ip, mmica ip, blk, frm, calc ip, silty ip, occly grading to coal, tr cal veining, SH 30%, med gy, gy to sl gn gy, v calc grdg to shaly ls, dull to mmica ip, platy to blk, sub fis to frm, smooth to waxy tex ip, tr pyr, mnr LS aa

SH 80%, med gy, gy to sl gn gy, v calc grdg to shaly ls, dull to mmica ip, platy to blk, sub fis to frm, v smooth to waxy tex ip, com pyr clusters and cubic xls, LS 20%, wh to lt gy, crptxl to predy mcxln, arg mudst, lumpy, local desm pyr, tt, no show

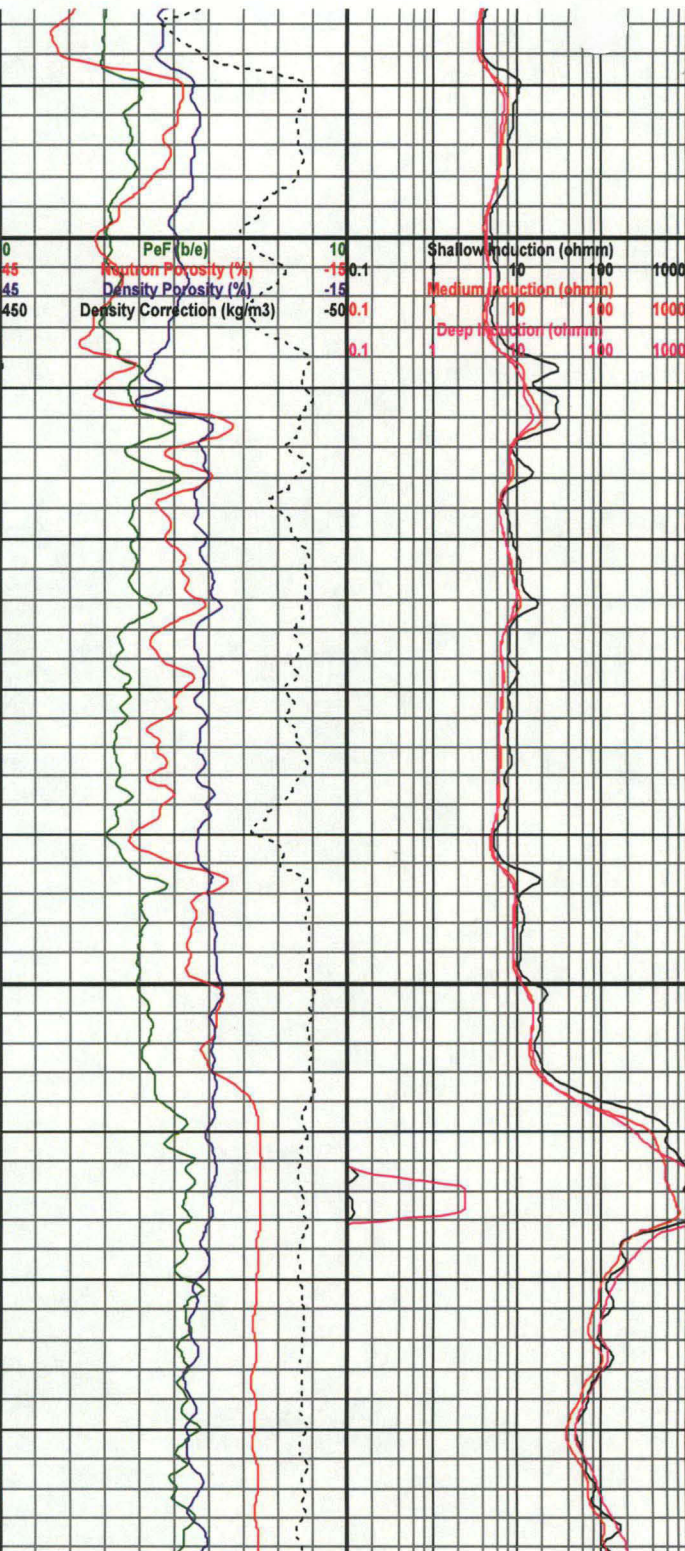
SH 65%, aa, LS 35%, aa

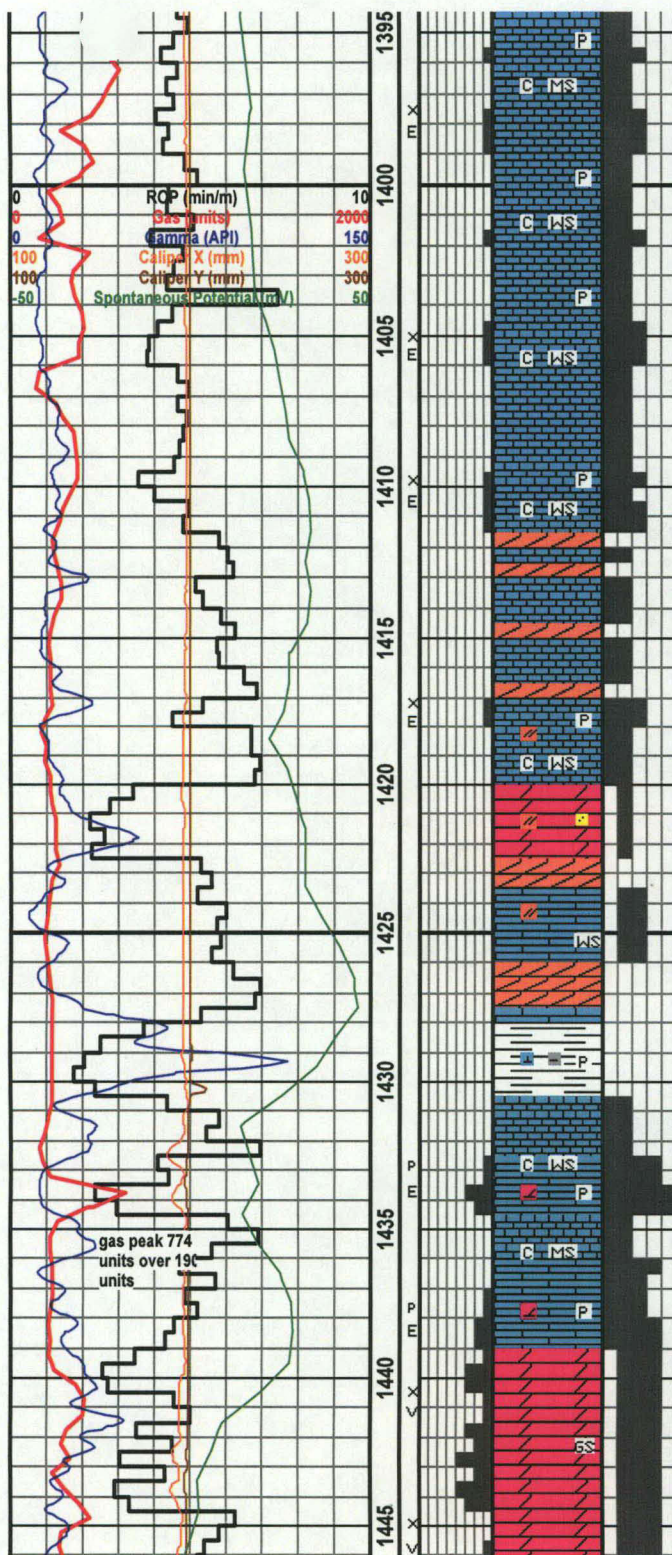
SLAVE POINT @ 1379.0m

LS 100%, cream to lt brn, brn, ip mottled, crptxl to predy mcxln, mudst to wkst, ip chalky, arg ip, flaky to blk, scat pyr nod and locally desm pyr xls, dns with tr p intxl por, inferred mnr earthy por, tt, v pale yel fl, questionable watery greenish cut

LS 100%, cream to brn, more brn than aa, ip mottled, crptxl to mcxln, tr vf xln, mudst to wkst, ip chalky, arg ip, flaky to blk, scat pyr nod and locally desm pyr xls, dns with tr p intxl por, inferred mnr earthy por, sl petf odor, com yel fl, questionable watery greenish cut

LS 100%, cream to tan to brn, mot, arg mudst to wkst. crptxl to mcxln. occ vf xln. it





chalky, arg ip, flz ky, soft to frm, scat
pyr, tr spy cal infil., por, sl petf odor,
com yel fl, wk skow greenish cut

500 Sonic 1000

LS 100%, cream to tan to lt gy tan, scat brn,
mottled, arg mudst to wkst, crptxl to vf xln,
flaky to lumpy, chalky tex ip, tt, spot pale ye
to yel flor, wk watery gn cut, mnr ANHY

LS 100%, cream to lt gy brn to brn, mottled,
arg mudst to wkst, crptxl to vf xln, flaky to
lumpy to blk, ip chalky, spot pale yel to yel
flor, wk greenish slow cut, mnr ANHY, lt gy,
trns to pearly lustre, mcxln

F4 MARKER @ 1420.0m

LS 50%, aa, yel flor, no cut, DOL 50%, cream
to lt brn, micxl, sandy tex, sl anhy, scat p
pp por, ns, mnr ANHY, off wh to lt brn

LS 80%, cream to brn, mottled, mudst to wkst, mcxln to
vf xln, soft, anhy, flaky to lumpy, tt, pale yel flor, no cut,
ANHY 20%, wh, pearly to watery appnc, amor, soft

WATT MOUNTAIN @ 1428.3m

SH 20%, lt gy gn to mint gn, arg, waxy, lumpy, soft, scat
desm pyr, ip calc, LS 80%

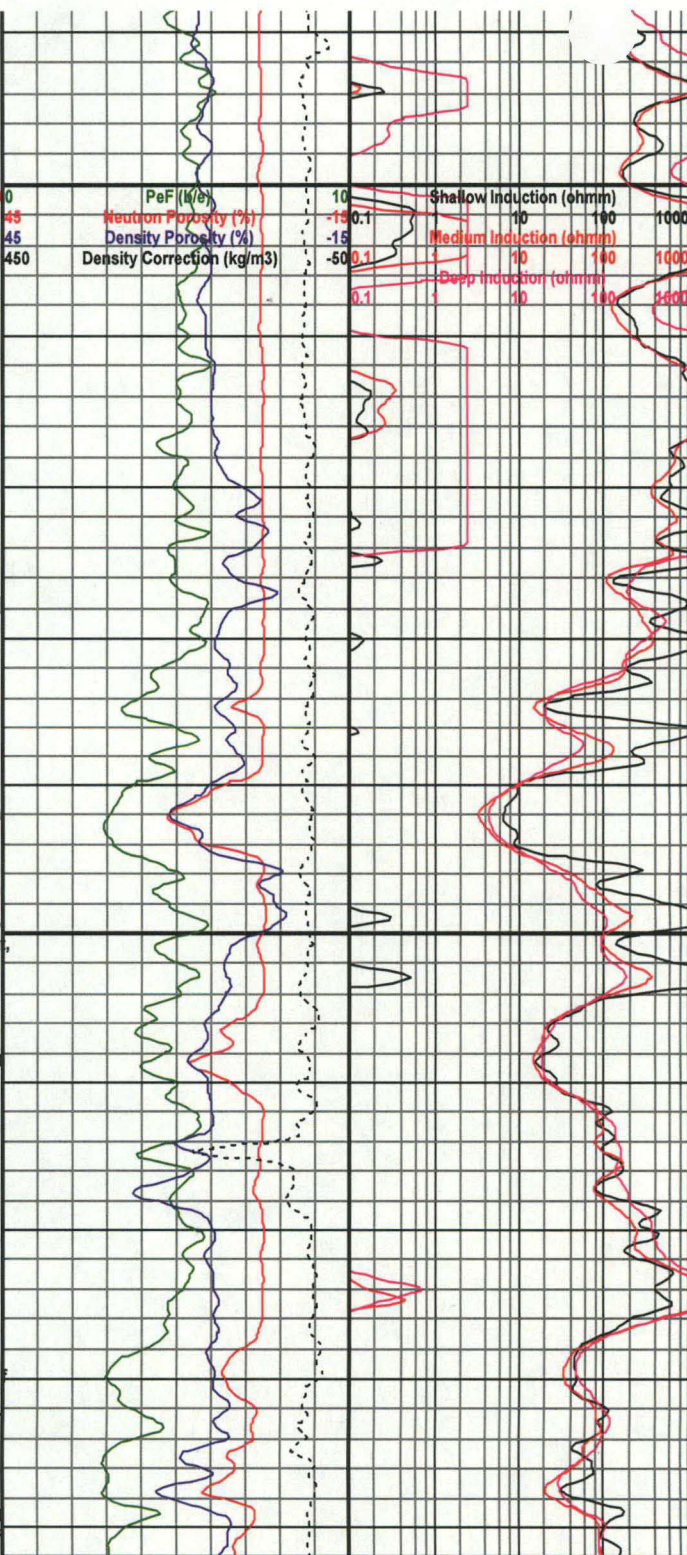
SULPHUR PT LS @ 1430.6m

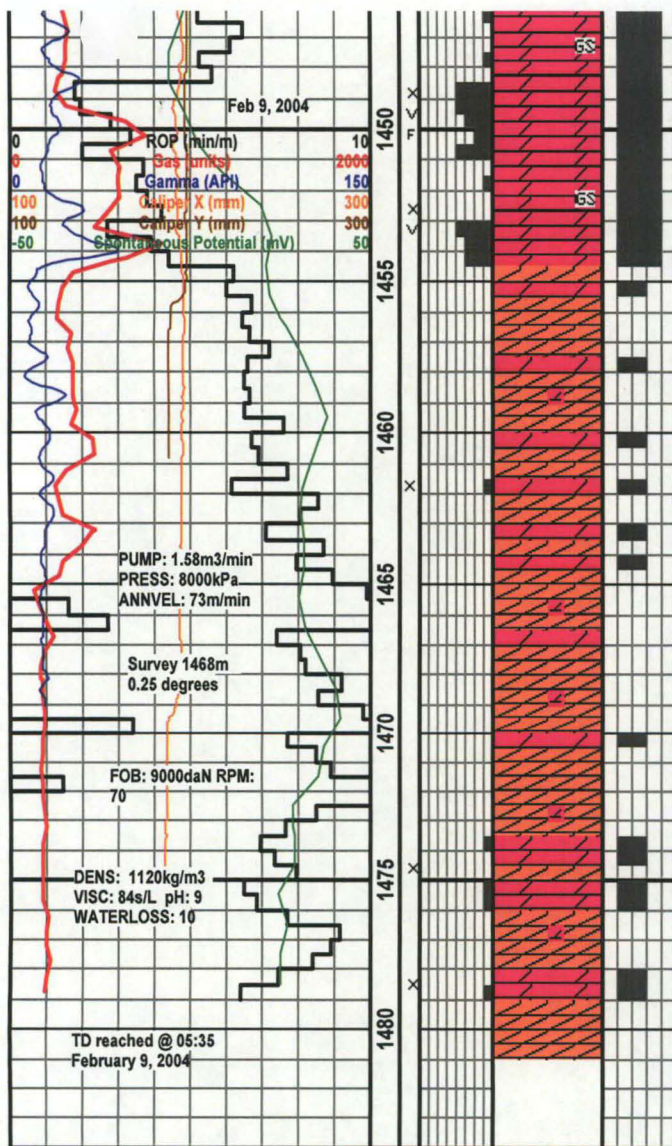
LS 100%, predy wh to tan, lt brn to dk brn, gy, cpxl to
med xln, mudst to wkst, brown rock frags in white arg
lime matrix, dolc ip, mot, chalky, ip rns, lumpy to blk,
scal local pyr xls, tt with streaks of p pp por, assumed
minor earthy por, v spot yel fl, no show

SULPHUR PT DOL @ 1439m

DOL 100%, lt brn to brn, patchy dk brn oil str, mcxln to
xln pckst to gnst, streaks of fair pp/vug por, p to fair
intxl por, scat spy cal, ip sandy appnc, strong petf odor
com yel flor, slow strm milky yel wh cut

DOL 100%, essentially aa, becoming coarser, becoming
darker brown, clear euhed and subhed dol xl, local mic
suc texture, even bright yellow flor, slow strm milk





yellow white cut

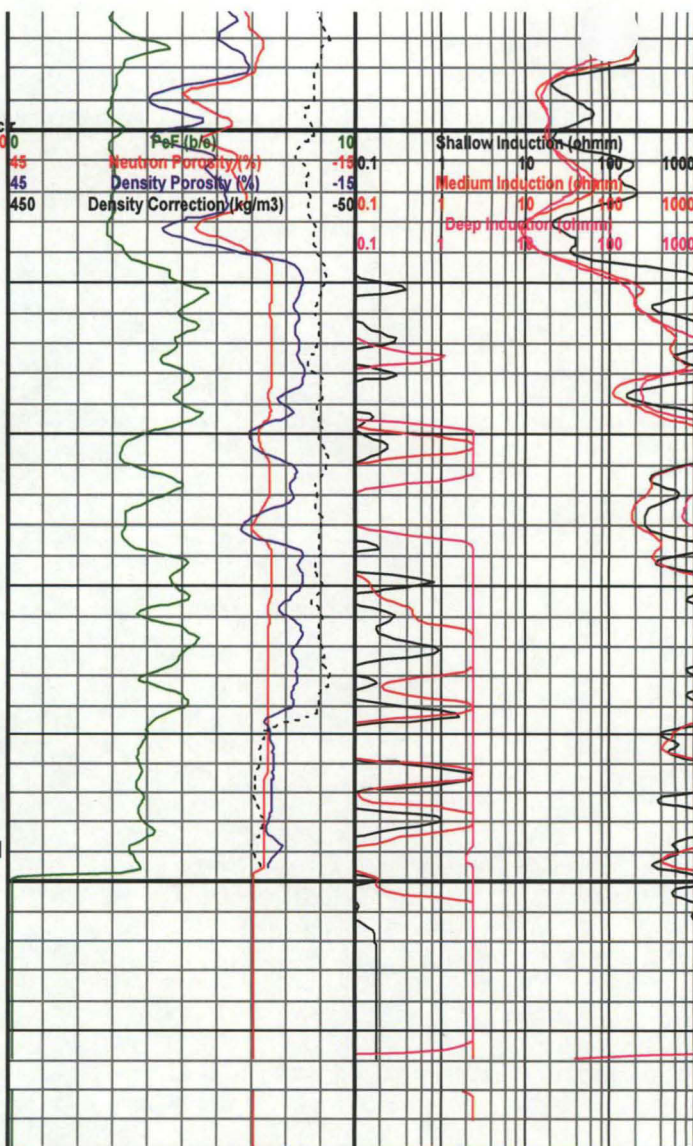
DOL 100%, lt brn to brn, dk brn oil stn, mcxln to f xln pckst to gnst, fair to g vug por, fair to g intxl por, suc, euhed and subhed dol xl growth along cutting edges suggests vug and/or fract por, scat spy cal, ip sandy appnc, strong petf odor, slight oily sheen in sample, com deep yel to yel flr, slow strm milky to watery yel wh cut

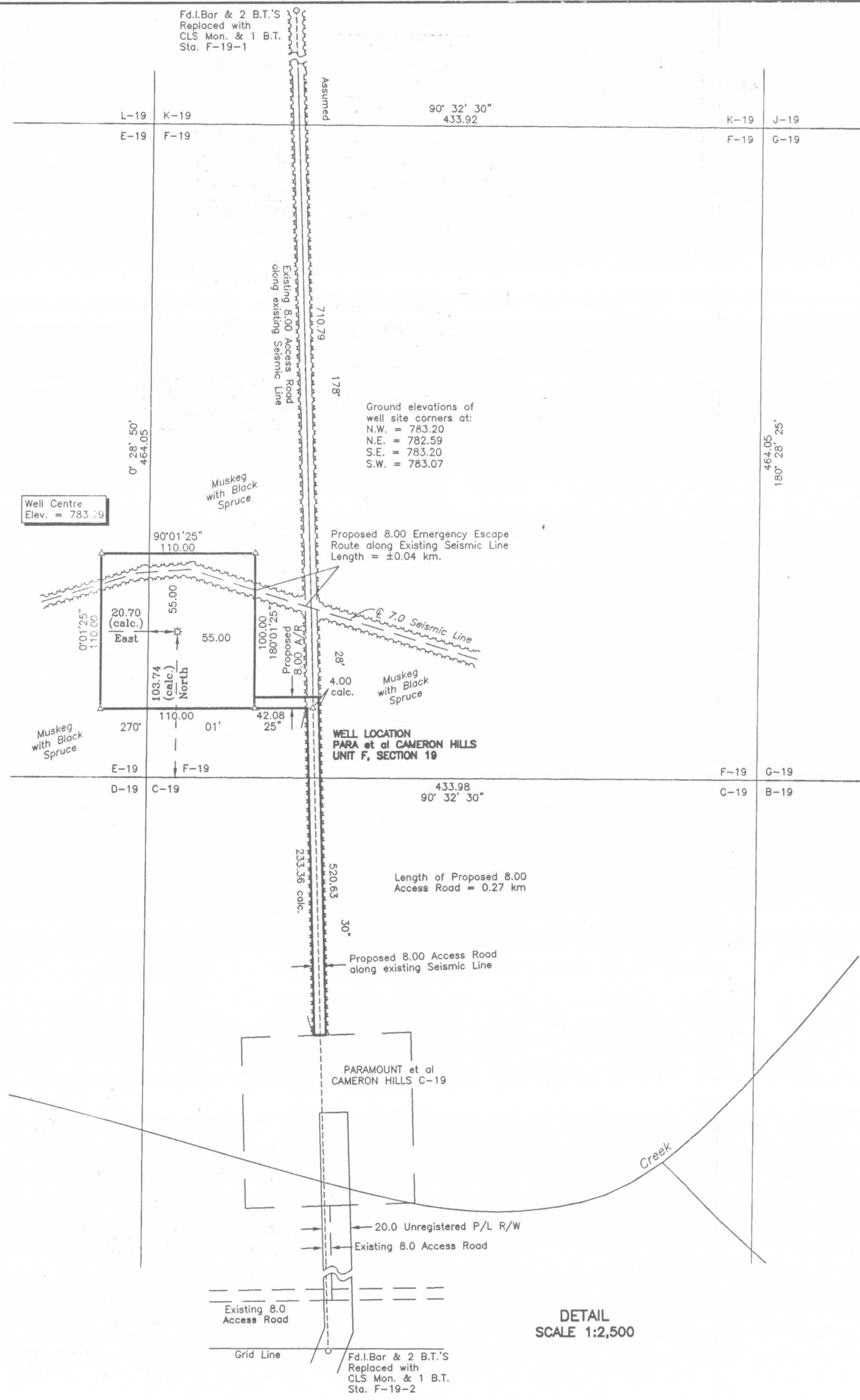
MUSKEG @ 1454.8m

ANHY 60%, wh amor nodules, off wh to tan, occ lt gy brn, pearly to watery lustre, crptxl, sl dolc ip, dense, tt, DOL 40%, buff to lt brn, tr spot dk brn oil stn, mcxln to vf xln ip arg grnst, occly suc, anhyc ip, streaky p intxln por, pale yel to yel flr, no show

ANHY 80%, wh amor nodules, off wh to tan, occ lt gy brn, pearly to watery lustre, crptxl, sl dolc ip, dense, tt, DOL 20%, buff to lt brn, tr spot dk brn oil stn, mcxln to vf xln ip arg grnst, occly suc euhed xl growth, anhyc ip, streaky p intxln por, occ p vug por, pale yel flr, no show

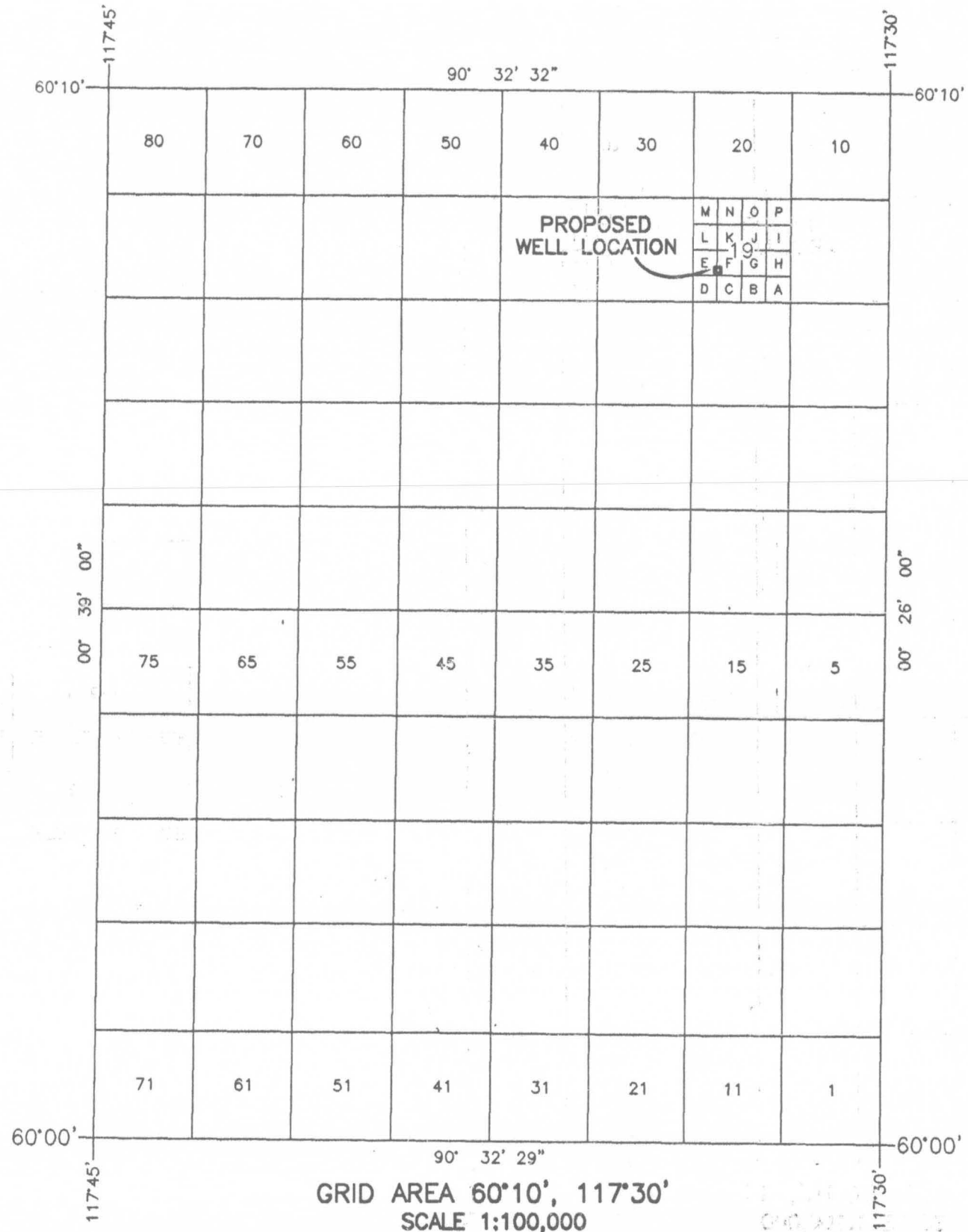
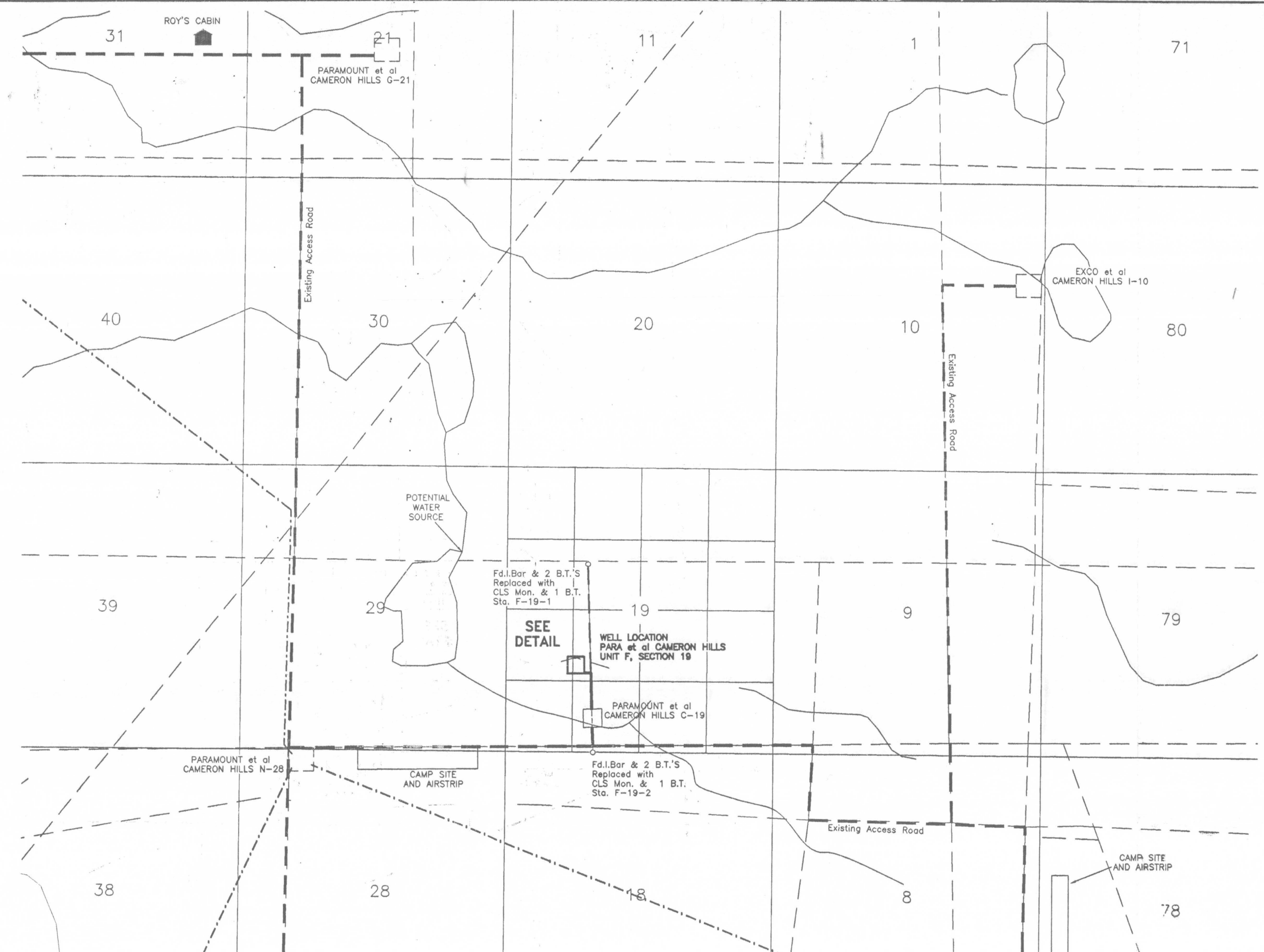
TOTAL DEPTH @ 1481m MD





GEOGRAPHIC AND UTM COORDINATES, (1983 NAD)					
Station	Latitude(N)	Longitude(W)	Northings	Eastings	Elev.
CONTROL MONUMENTS					
F-19-1	60°08'40.080"	117°33'15.967"	6667629.486	469210.057	784.93
F-19-2	60°08'00.300"	117°33'13.168"	6666398.518	469242.923	782.94
PROPOSED WELL					
F-19, WELL CENTRE	60°08'18.870"	117°33'20.634"	6666973.970	469132.535	783.29

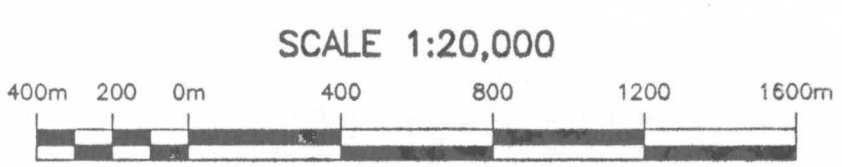
GRID AREA 60°10', 117°30' - GEOGRAPHIC AND UTM COORDINATES, (1927 NAD)					
N.E.	60°10'00"	117°30'00"	6669871.559	472250.652	
N.W.	60°10'00"	117°45'00"	6670002.853	458376.311	
S.W.	60°00'00"	117°45'00"	6651441.753	458165.709	
S.E.	60°00'00"	117°30'00"	6651310.016	472110.252	
F-19, N.E.	60°09'15.130"	117°32'48.750"	6668504.067	469637.696	
F-19, N.W.	60°09'15.146"	117°33'16.875"	6668508.171	469203.958	
F-19, S.W.	60°09'00.146"	117°33'16.875"	6668044.135	469200.064	
F-19, S.E.	60°09'00.130"	117°32'48.750"	6668040.030	469633.857	
PROPOSED WELL					
F-19	60°08'18.499"	117°33'15.533"	6666755.567	469209.947	



AREAS:			
	Hectares	Acres	
Well Site	1.210	2.99	
Access Road	0.223	0.55	
Total	1.433	3.54	

BEARING TREES			
STATION	BEARING	DISTANCE	TREE
F-19-1	-	-	-
	-	-	-
	-	-	-
F-19-2	116°34'10"	23.46	5 cm Spruce
	298°36'15"	18.81	10 cm Spruce
	339°31'20"	21.39	10 cm Spruce

PLAN AND FIELD NOTES
OF SURVEY OF
PROPOSED EXPLORATORY WELL
PARA ET AL CAMERON
IN UNIT F, SECTION 19
GRID AREA 60° 10', 117° 30'
NORTHWEST TERRITORIES
CANADA OIL AND GAS REGULATIONS
EXPLORATORY WELL, NORTHWEST TERRITORIES



SURVEYED FOR
PARAMOUNT RESOURCES LTD.
BY: GREG A. BOGGS, C.L.S.
August & September, 2003.

THIS SURVEY WAS EXECUTED ON
AUGUST 28th 2003.
Certified correct and completed on the 22nd day of September 2003.
Greg A. Boggs Canada Lands Surveyor

PARAMOUNT RESOURCES LTD.
Dave Blaw
WITNESS

Nov 24/03
DATE

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 0.999493.
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:
Wooden posts placed are shown thus:
Alberta Survey Control Markers 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:
Elevations were derived from Alberta Survey Control Marker 440958 Elev. = 713.96 m. (Geoid Separation HT1-01)
Survey was completed prior to drilling; therefore well as drilled may not necessarily agree with proposed location.

1	Revised text and removed portion of P/L #6	JDS	OCT. 23/03
0	PLAN ISSUED	JDS	SEPT. 22/03
REV.	DESCRIPTION	BY	DATE
GREG A. BOGGS CANADA LANDS SURVEYOR		Date:	Sept. 10, 2003
McELHANNY LAND SURVEYS LTD. PROFESSIONAL LAND SURVEYORS 138, 14315-118 Avenue Edmonton, Alberta Ph: (780) 451-3420 FAX: (780) 452-7033		Plan No.:	1 of 1
		Job No.:	321114300
		SCALE AS SHOWN	14300
		File No.:	14300
		JDS	