MERCURY WIRELINE

COMPENSATED DENSITY/NEUTRON LOG

Company	XTO Energy Inc.
Well	Hill Ranch 01-14
Field	Purgatorie River
County	Las Animas
State	CO

Company XTO Energy Inc.
Well Hill Ranch 01-14
Field Purgatorie River
County Las Animas State CO
Location: API # : 05 071 09558 00
934' FSL & 1960' FWL
SEC 1 TWP 35S RGE 68W

Other Services
DIL

Permanent Datum Ground Level Elevation 8529'
Log Measured From Ground Level
Drilling Measured From Ground Level

Elevation
K.B. _____
D.F. _____
G.L. 8529'

Date	1/26/10		
Run Number	One		
Depth Driller	2198'		
Depth Logger	1938'		
Bottom Logged Interval	1936'		
Top Log Interval	Surface Casing		
Casing Driller	454'		
Casing Logger	453'		
Bit Size	7 7/8"		
Type Fluid in Hole	water		
Density / Viscosity	///		
pH / Fluid Loss	///		
Source of Sample	///		
Rm @ Meas. Temp	///		
Rmf @ Meas. Temp	///		
Rmc @ Meas. Temp	///		
Source of Rmf / Rmc	///		
Rm @ BHT	///		
Time Circulation Stopped	10:00 p.m.		
Time Logger on Bottom	1:15 a.m.		
Maximum Recorded Temperature	112F		
Equipment Number	697		
Location	Trinidad		
Recorded By	Worley		
Witnessed By	Mr. Dalton King		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

XTO Hill stay on main road past Dead Horse, stay on main road past Beige Tanks, down thru Alamosa Ca
take hard left at Big Rocks, drive by HR 1-2 and HR 1-5, take right, left at T, next right to location.

MERCURY WIRELINE

Main Pass

Database File: hillranch01-14.db
Dataset Pathname: pass2.1
Presentation Format: cdl
Dataset Creation: Tue Jan 26 08:04:15 2010 by Calc Warrior 7.0 STD Ope
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80
TBHV (ft3)		

2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
5000	LTEN (lb)	0
ABHV (ft3)		

0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80
TBHV (ft3)		

2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
5000	LTEN (lb)	0
ABHV (ft3)		

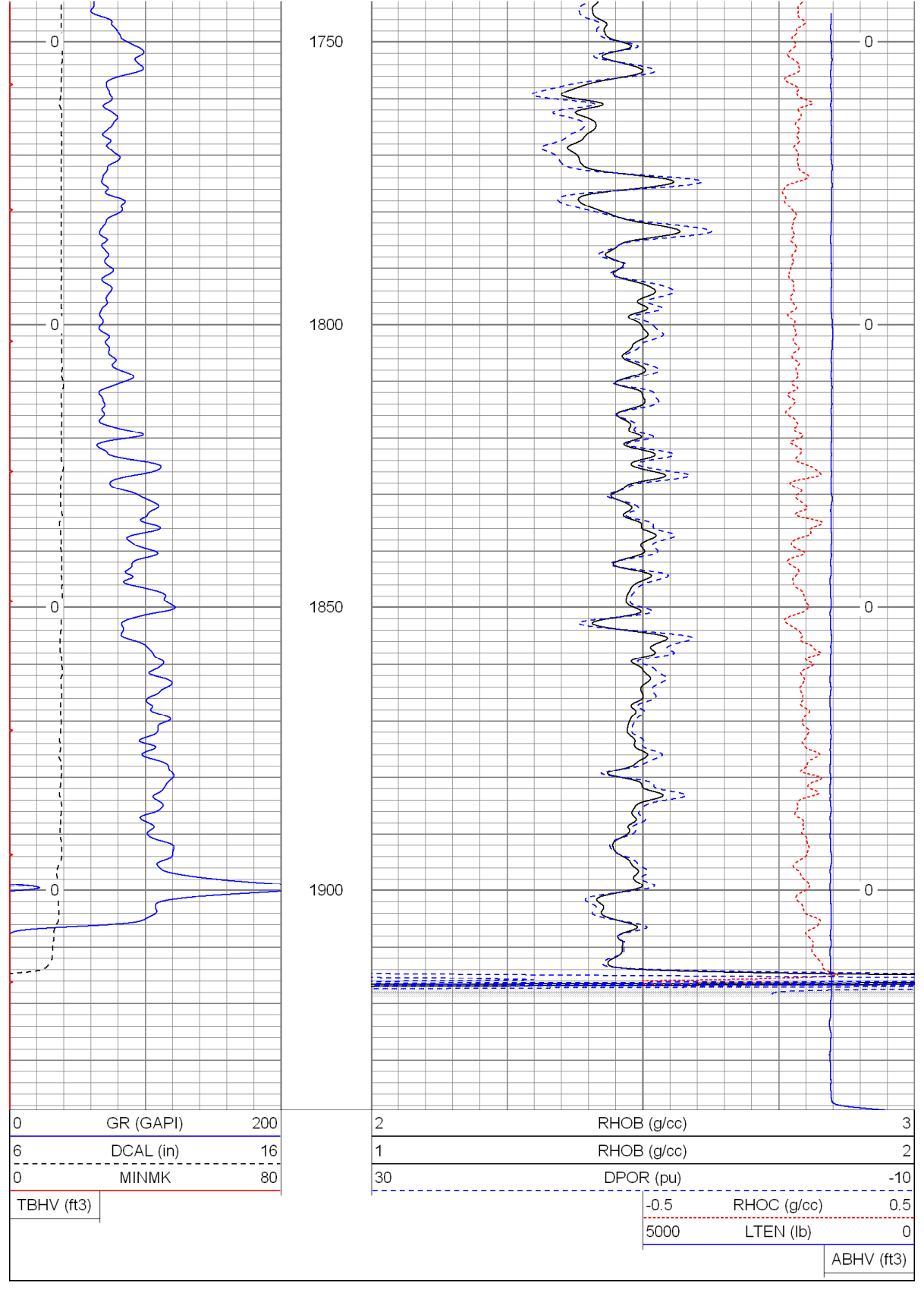
MERCURY WIRELINE

Repeat Section

Database File: hillranch01-14.db
Dataset Pathname: pass1
Presentation Format: cdl
Dataset Creation: Tue Jan 26 02:29:24 2010 by Log Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80
TBHV (ft3)		

2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
5000	LTEN (lb)	0
ABHV (ft3)		



0	GR (GAPI)	200
6	DCAL (in)	16
0	MINMK	80
TBHV (ft3)		

2	RHOB (g/cc)	3
1	RHOB (g/cc)	2
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
5000	LTEN (lb)	0
ABHV (ft3)		

MERCURY WIRELINE

Main Pass

Database File: hillranch01-14.db
Dataset Pathname: pass2.3
Presentation Format: cdnl
Dataset Creation: Tue Jan 26 04:47:48 2010 by Calc Open-Cased 071220
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0
ABHV (ft3)		

0	GR (GAPI)	200
6	DCAL (in)	16
TBHV (ft3)		

30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
7000	LTEN (lb)	0
ABHV (ft3)		

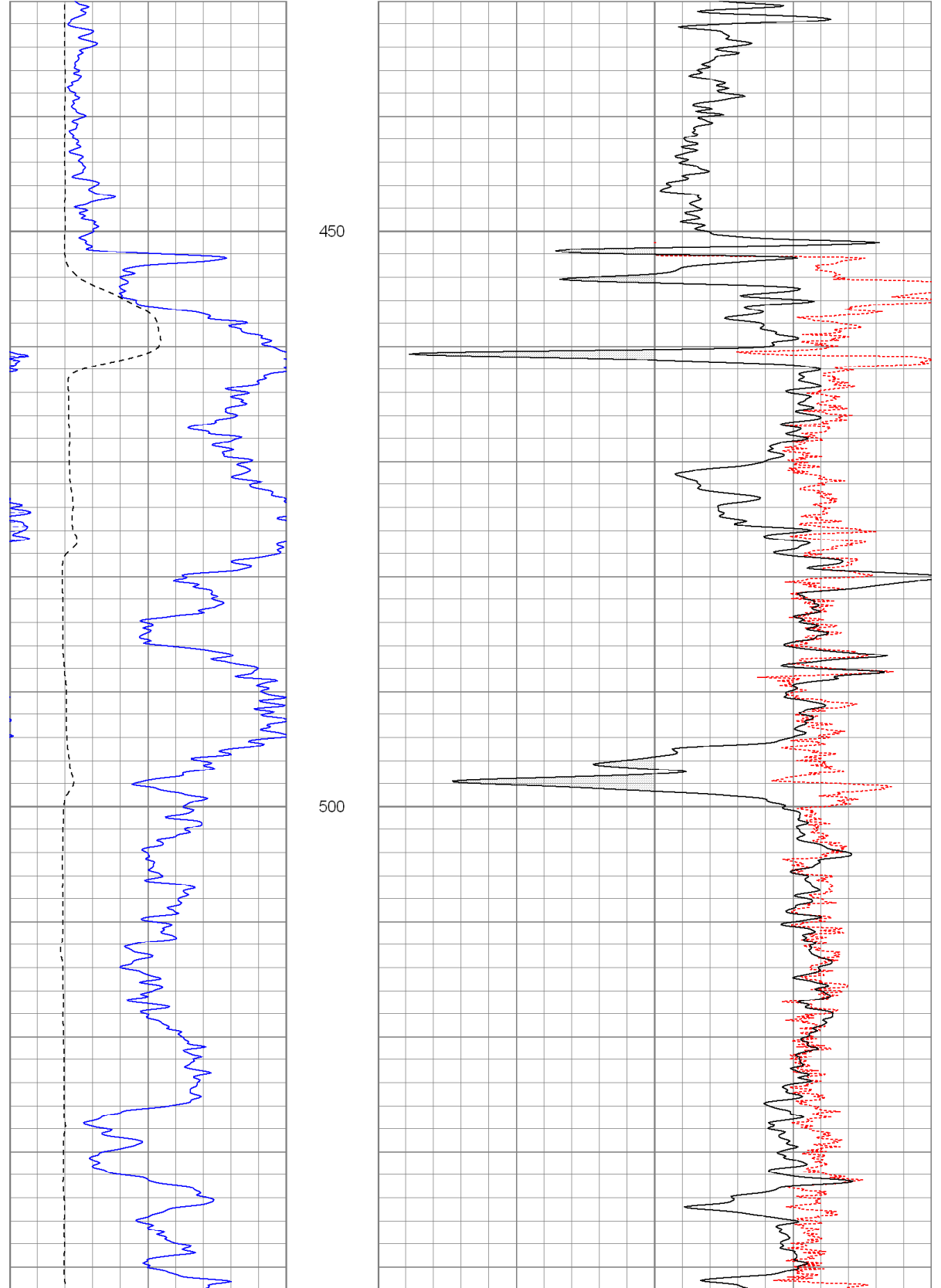
MERCURY WIRELINE

High Resolution Pass

Database File: hillranch01-14.db
Dataset Pathname: pass2.3hr
Presentation Format: cdlhr
Dataset Creation: Tue Jan 26 09:08:52 2010 by Calc Warrior 7.0 STD Ope
Charted by: Depth in Feet scaled 1:120

0	GR (GAPI)	200
6	DCAL (in)	16

1	RHOB (g/cc)	3
-0.5	RHOC (g/cc)	0.5



Calibration Report

Database File: hillranch01-14.db
Dataset Pathname: pass2
Dataset Creation: Tue Jan 26 02:42:42 2010 by Log Open-Cased 071220

Compensated Density Calibration Report

Serial-Model: 2501DHT-DHT
Source / Verifier: /
Master Calibration Performed: Mon Jan 25 10:13:39 2010
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	767.26	303.43	cps
Aluminum	2.590	g/cc	171.91	210.81	cps

Spine Angle = 76.32
Density/Spine Ratio = 0.572

	Size		Reading
Small Ring	8.00	in	6196.63
Large Ring	14.00	in	10494.70

Before Survey Verification

Target	Measured
g/cc	g/cc
g/cc	g/cc
g/cc	g/cc

After Survey Verification

Target	Measured
g/cc	g/cc
g/cc	g/cc
g/cc	g/cc

Gamma Ray Calibration Report

Serial Number: 2001
Tool Model: OH
Performed: Mon Jan 25 10:14:15 2010

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2500 GAPI/cps

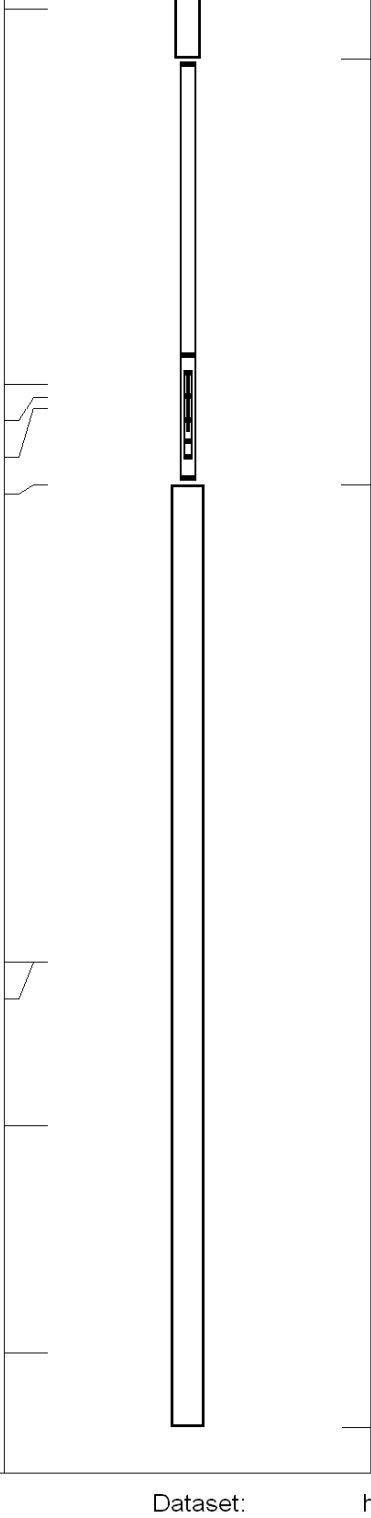
Neutron Calibration Report

Serial Number: 5108
Tool Model: PROBE
Performed: Mon Jan 25 10:14:18 2010

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			None	0.75	1.50	5.00
NEU	37.85		NEU-PROBE (5108) Probe Epithermal	4.92	3.63	85.00
GR	32.32		GR-OH (2001) 2001	3.56	3.25	40.00
			CDL-DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	23.78					
DCAL	23.49					
SSD	23.24					
HEADVOLT	21.47					
CILD	10.60		DIL-G (5375) Gearhart	21.47	4.00	345.00
SP	10.60					
CILM	6.89					
RLL3	1.70					

Dataset: hillranch01-14.db: field/well/run1/pass2
Total Length: 40.39 ft
Total Weight: 676.00 lb
O.D. 4.00 in