Pioneer Energy Services

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company Augustus Energy Resources, LLC
Well Hays 14-35 1S44W
Field Vernon
County Yuma
State Colorado

Company	Augustus Energy Resources, LLC
Well	Hays 14-35 1S44W
Field	Vernon
County	Yuma
	State Colorado

Location: API # : 05-125-12091

312' FSL & 322' FWL SWSW

SEC 35 TWP 1S RGE 44W

Other Services

None

Permanent Datum	GL	Elevation	3819
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 3825
D.F. 3824
G.L. 3819

Date	July 19, 2014		
Run Number	1		
Depth Driller	2325'		
Depth Logger	2320'		
Bottom Logged Interval	2320'		
Top Log Interval	Casing		
Casing Driller	453'		
Casing Logger	453'		
Bit Size	6.25"		
Type Fluid in Hole	WBM		
Density / Viscosity	8.7 / 29		
pH / Fluid Loss	7.0 / 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.28 @ 65 F		
Rmf @ Meas. Temp	0.22 @ 65 F		
Rmc @ Meas. Temp	0.34 @ 65 F		
Source of Rmf / Rmc	Calc / Calc		
Rm @ BHT	0.18 @ 103 F		
Time Circulation Stopped	2315 7/18/14		
Time Logger on Bottom	0255		
Maximum Recorded Temperature	103 F		
Equipment Number	49		
Location	Ft. Morgan, CO		
Recorded By	Clint Christensen		
Witnessed By	Justin Stone		

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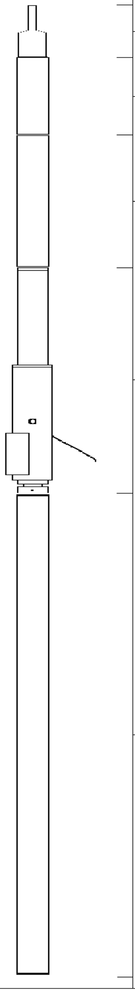
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

Annular volume calculated for 4.5" casing
Excell Drilling Rig 2
Thank you for using Pioneer Energy Services.

Sensor	Offset (ft)
GR	0.00
CNLSC	-3.67
CNSSC	-4.17
DCAL	-11.84
LSD	-12.67
SSD	-13.17
RLL3	-17.52
CILD	-24.97
CILM	-28.42
SP	-32.42

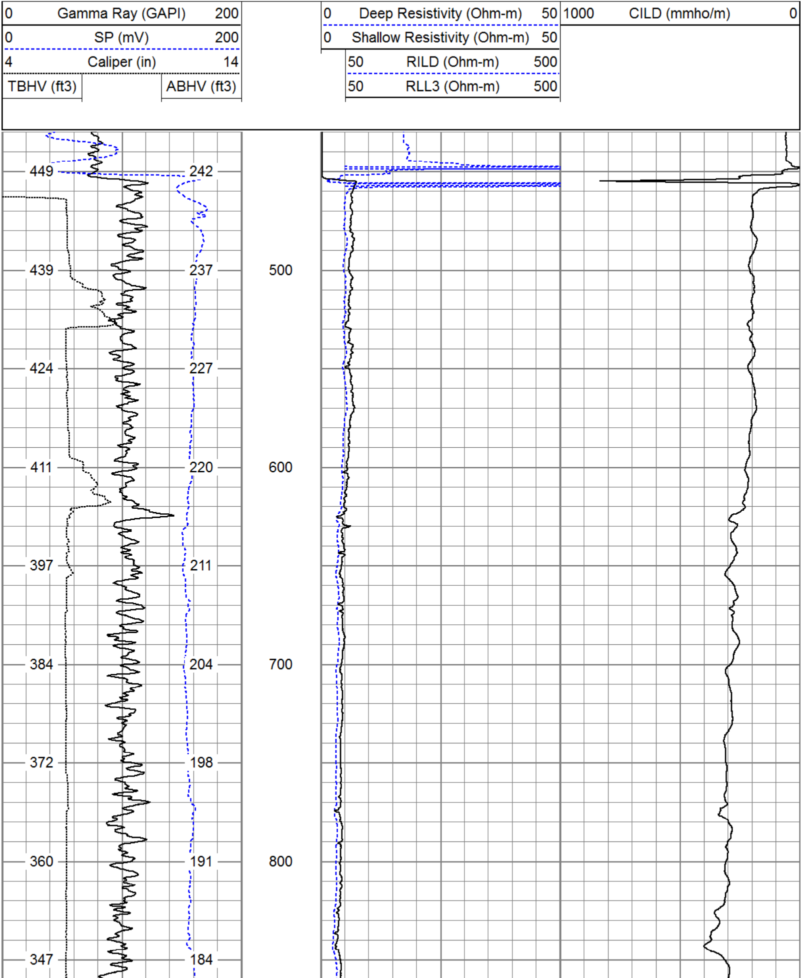
Schematic

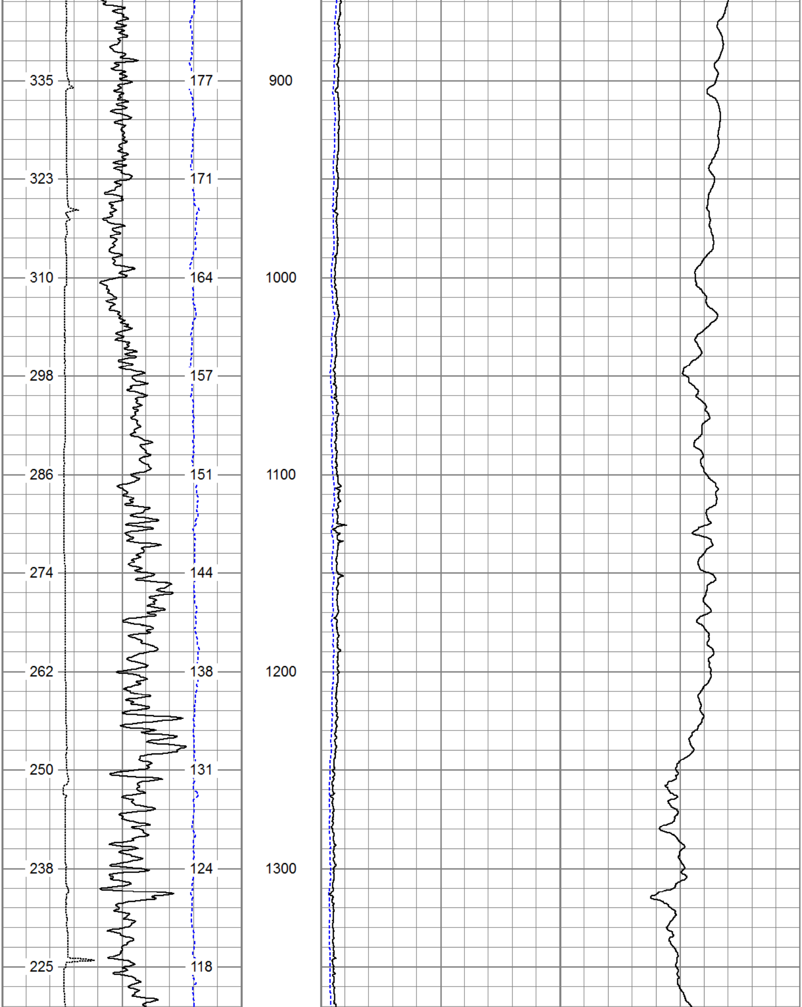


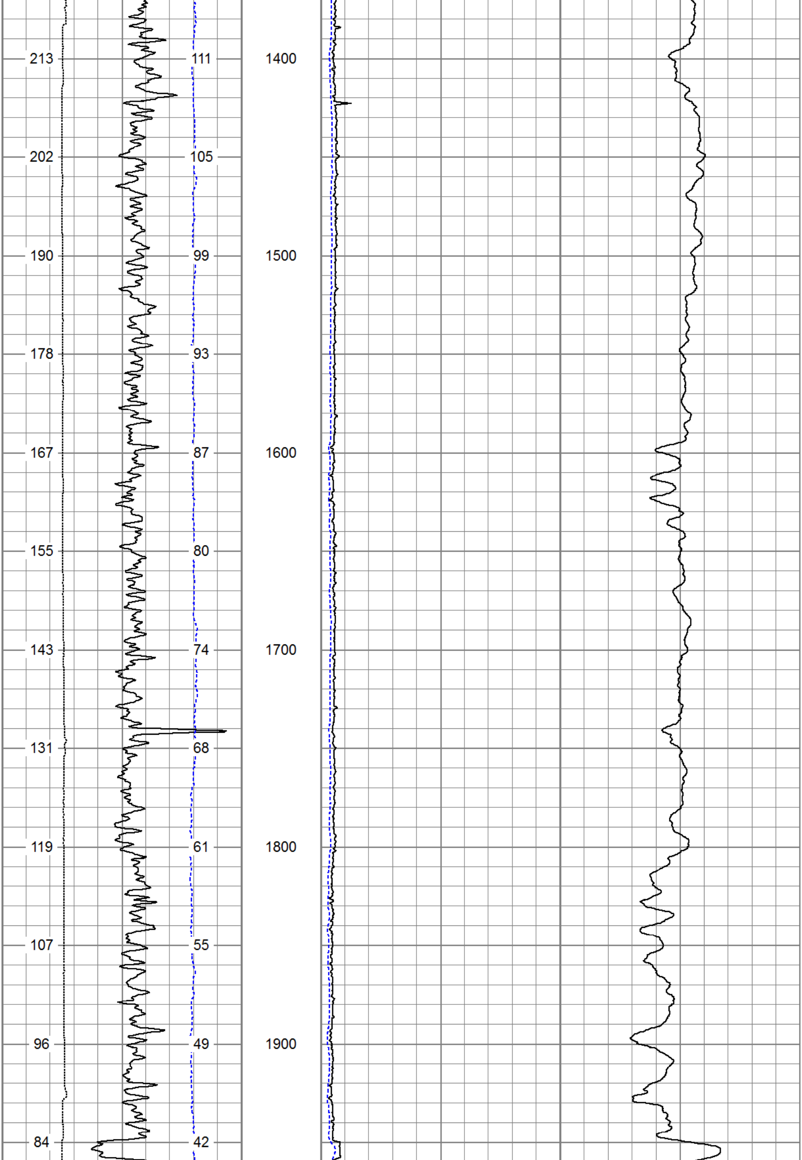
Description	Len (ft)	OD (in)	Wt (lb)
CHD (~0)	2.00	3.50	30.00
GR-PSI (939)	2.92	3.50	40.00
CNT-PSI (826)	5.00	3.50	70.00
CDL-PSI (998)	8.50	5.00	285.00
DIL-PSI (1011)	18.25	3.75	175.00

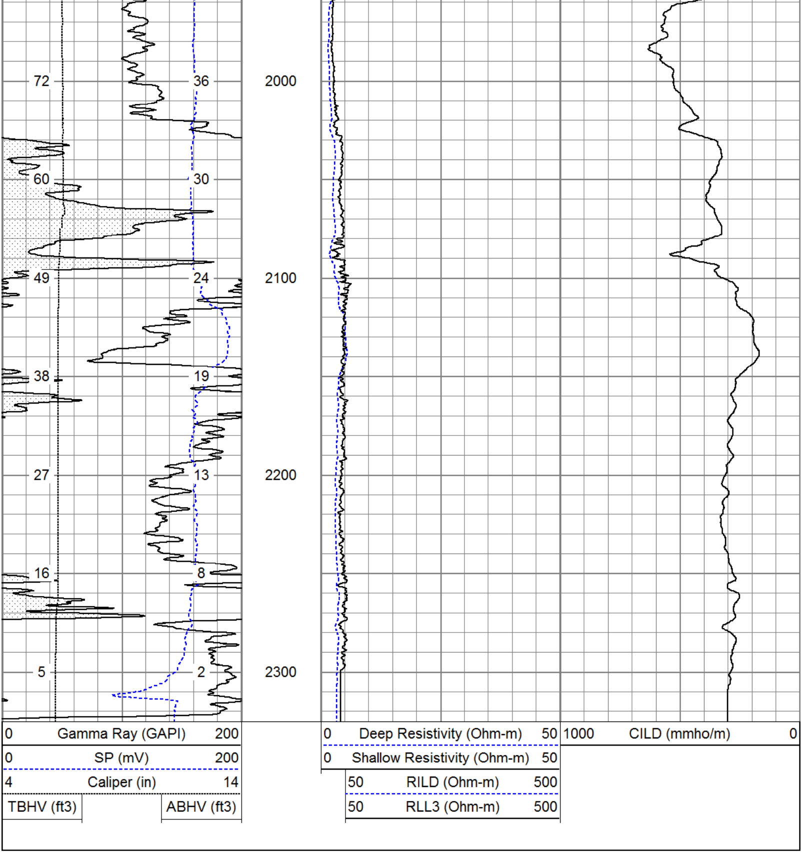
Dataset:	13610.db: field/well/run1/Final
Total Length:	36.67 ft
Total Weight:	600.00 lb
O.D.	5.00 in

Database File:	13610.db
Dataset Pathname:	Final
Presentation Format:	dilin60
Dataset Creation:	Sat Jul 19 05:22:12 2014
Charted by:	Depth in Feet scaled 1:600









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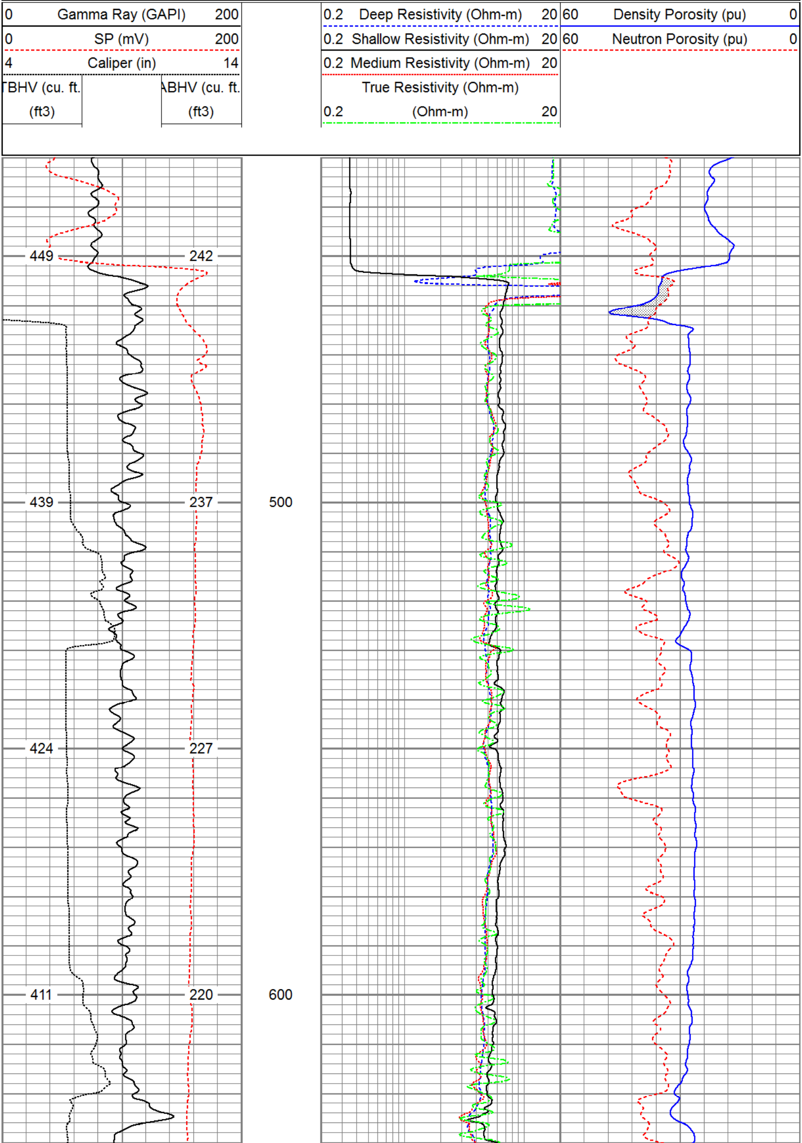
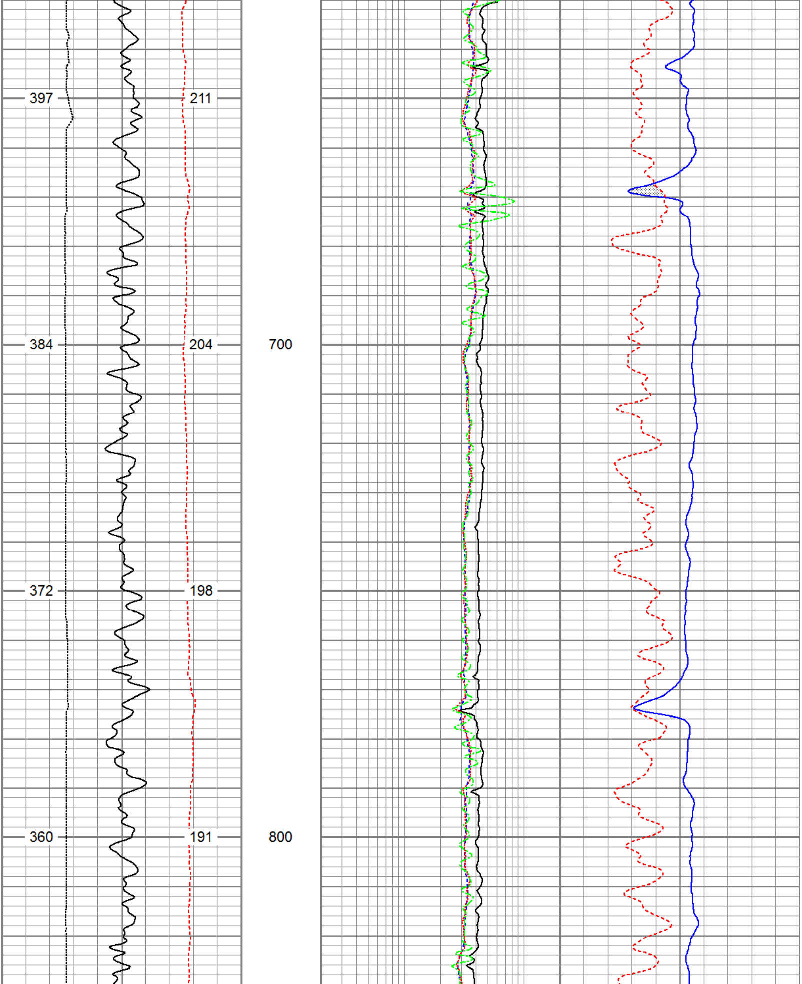
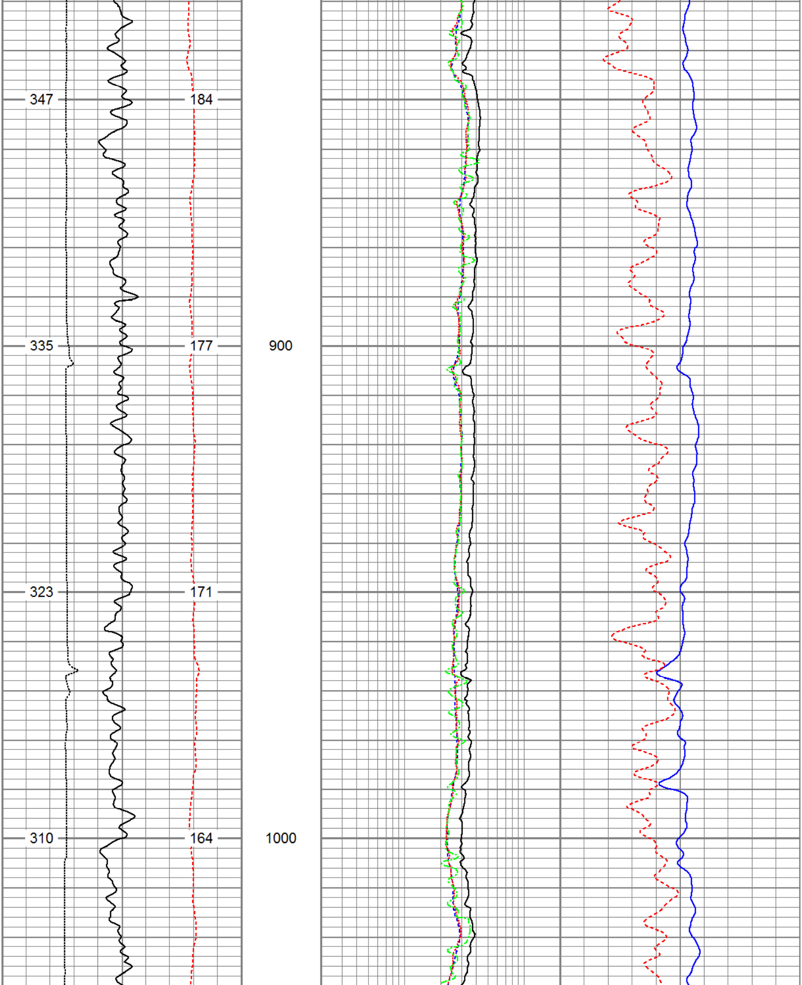
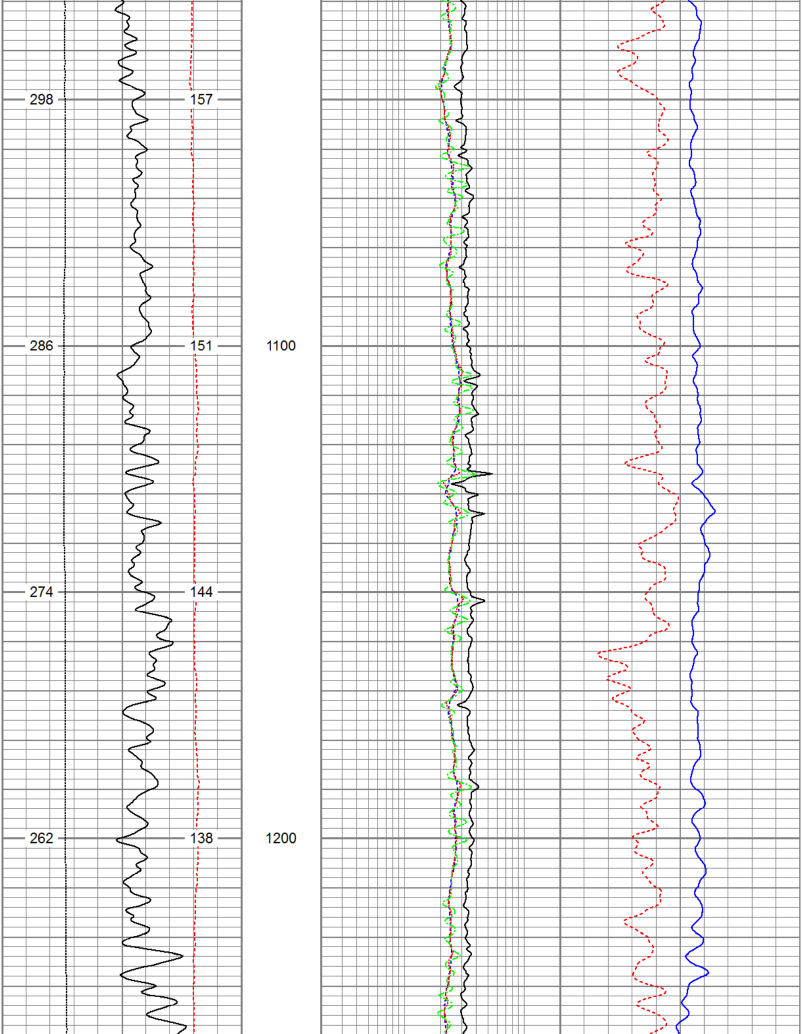
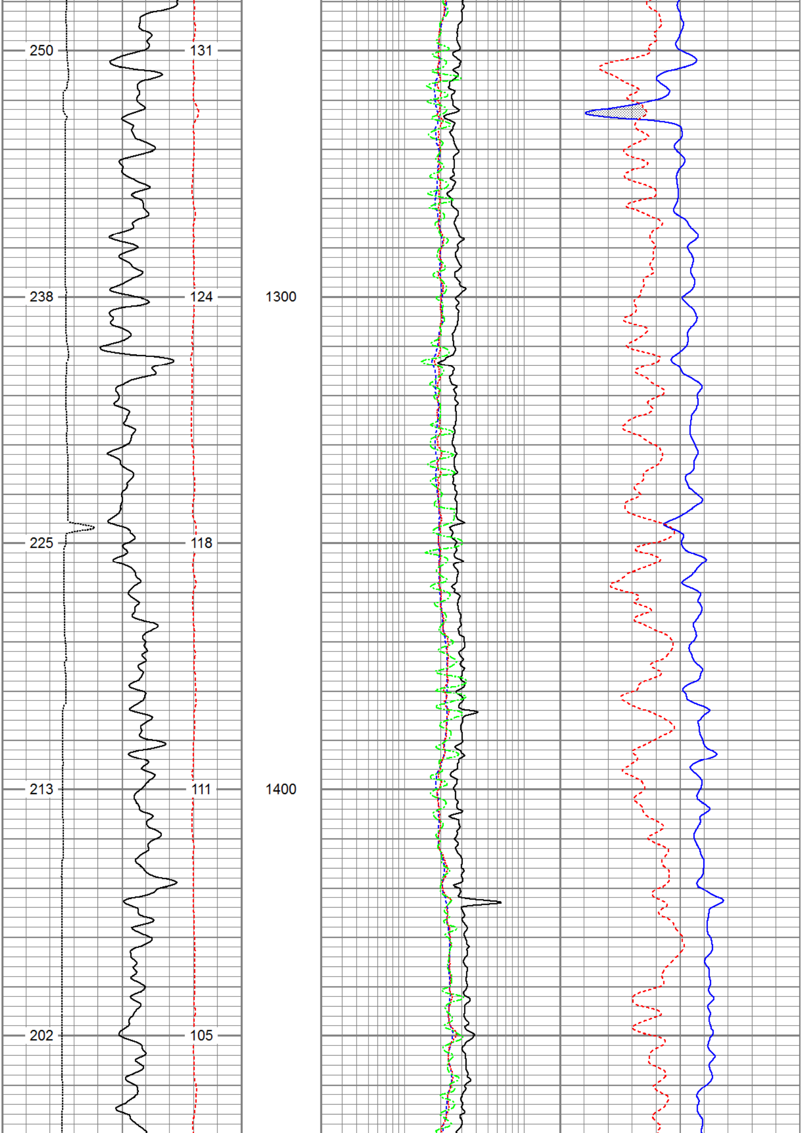
Charted by: Depth in Feet scaled 1:240

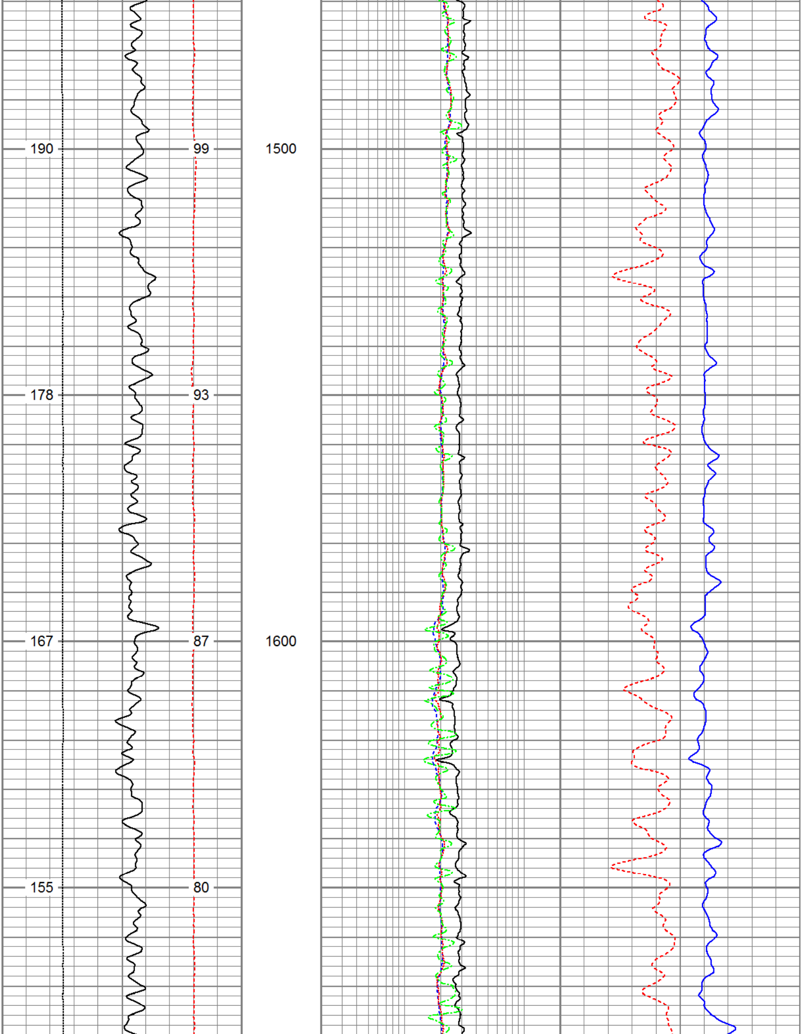


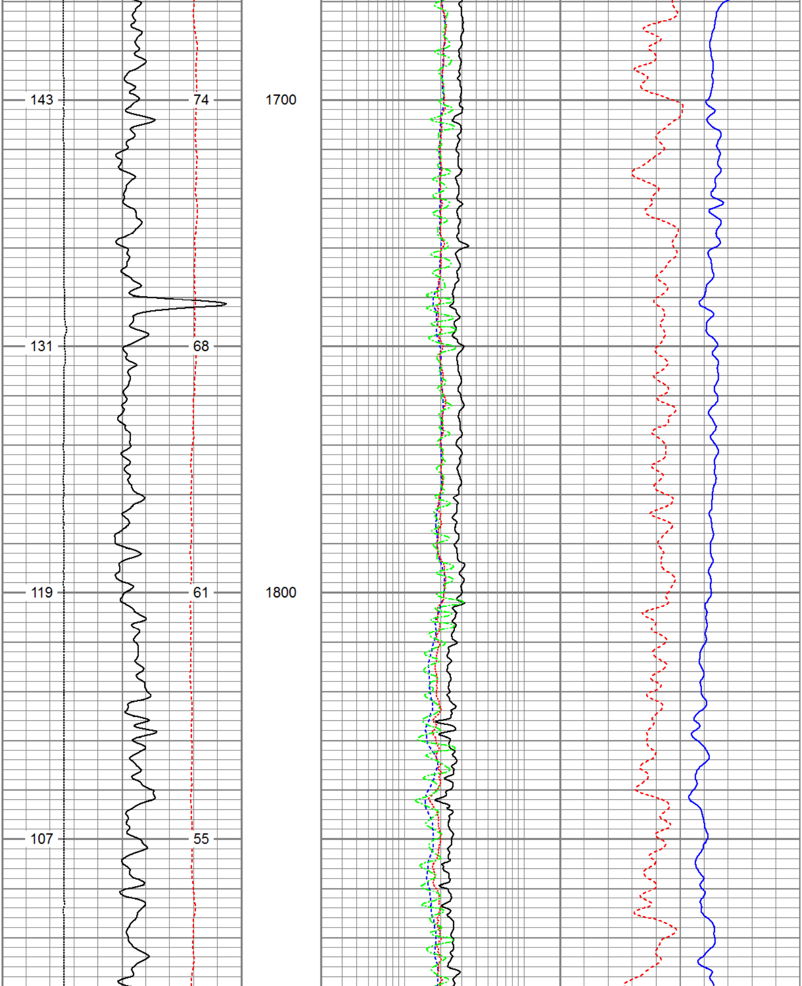


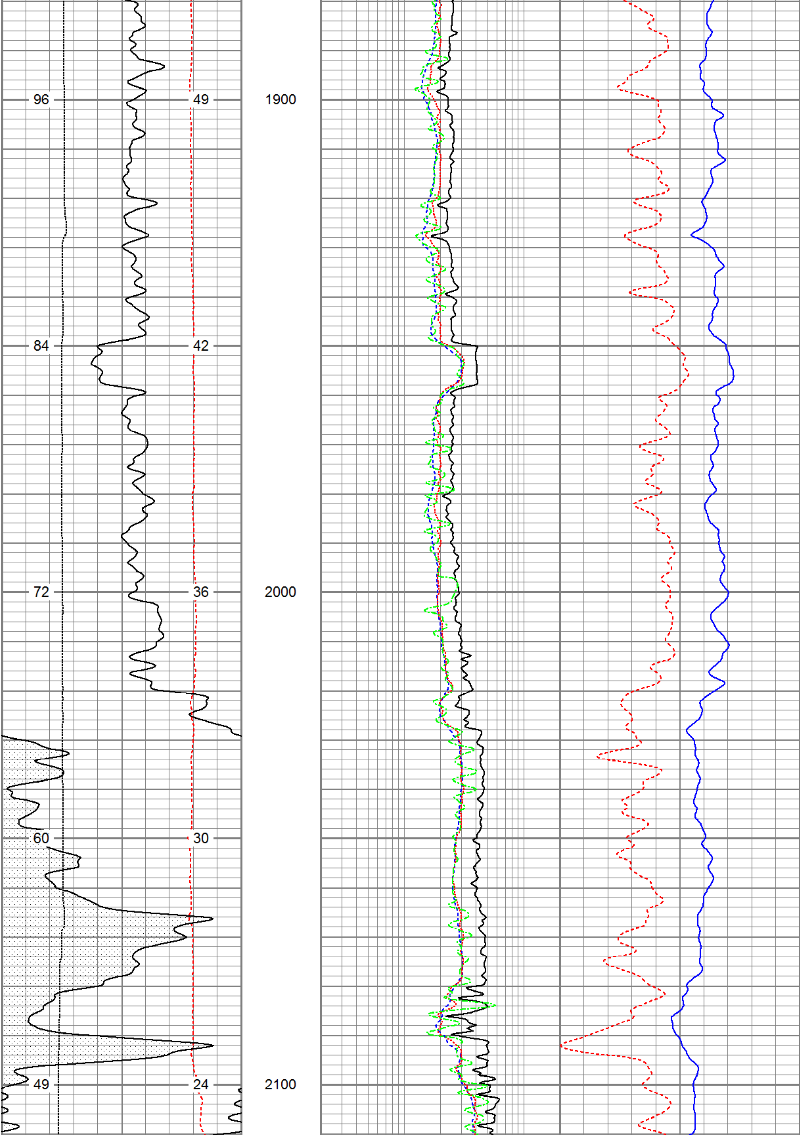


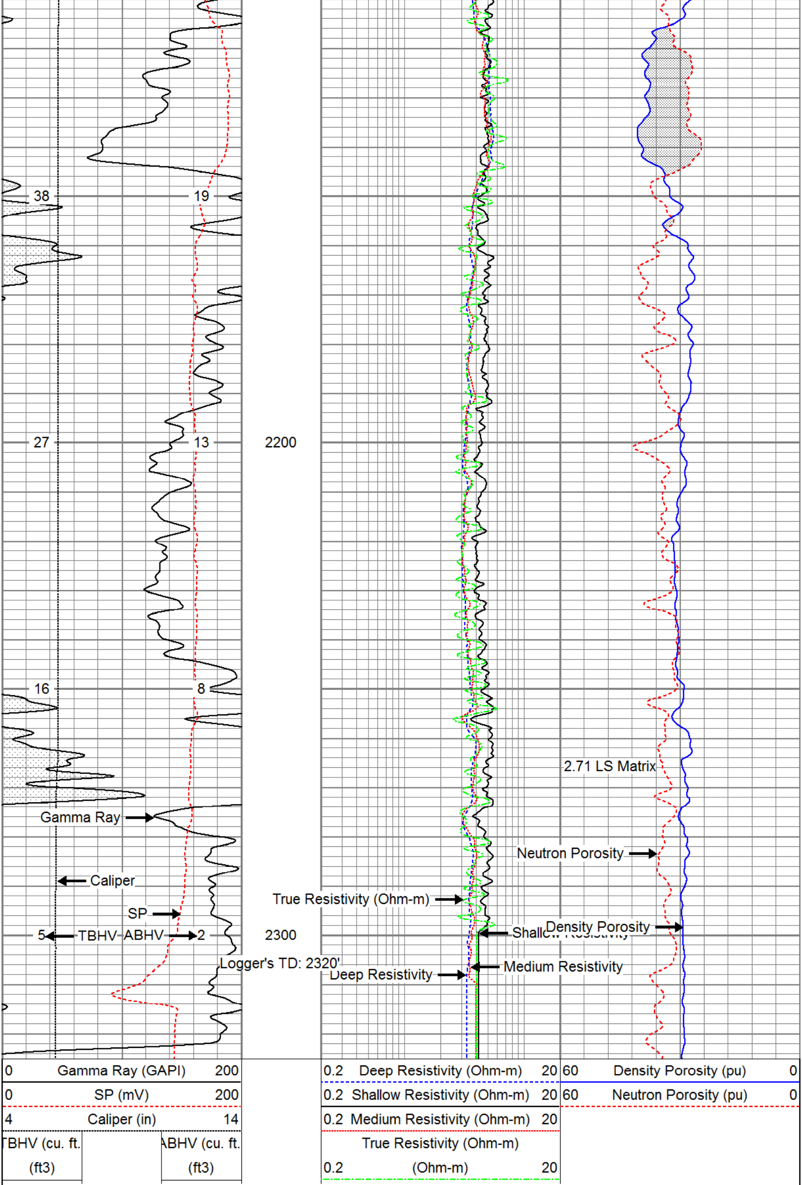












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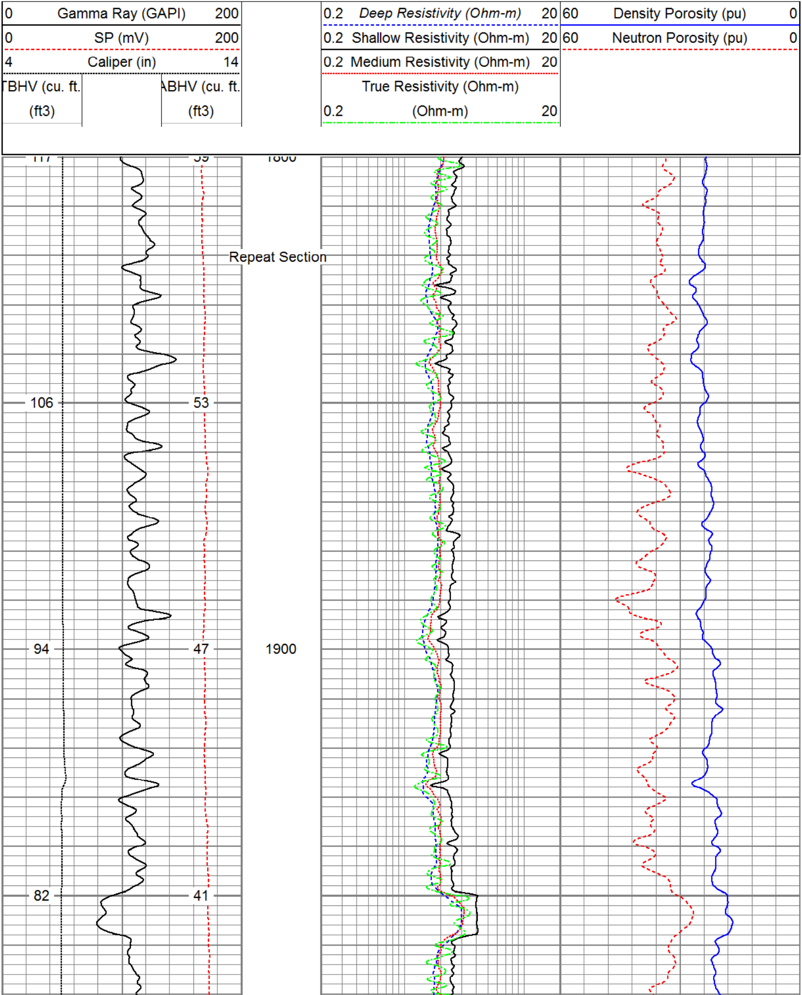
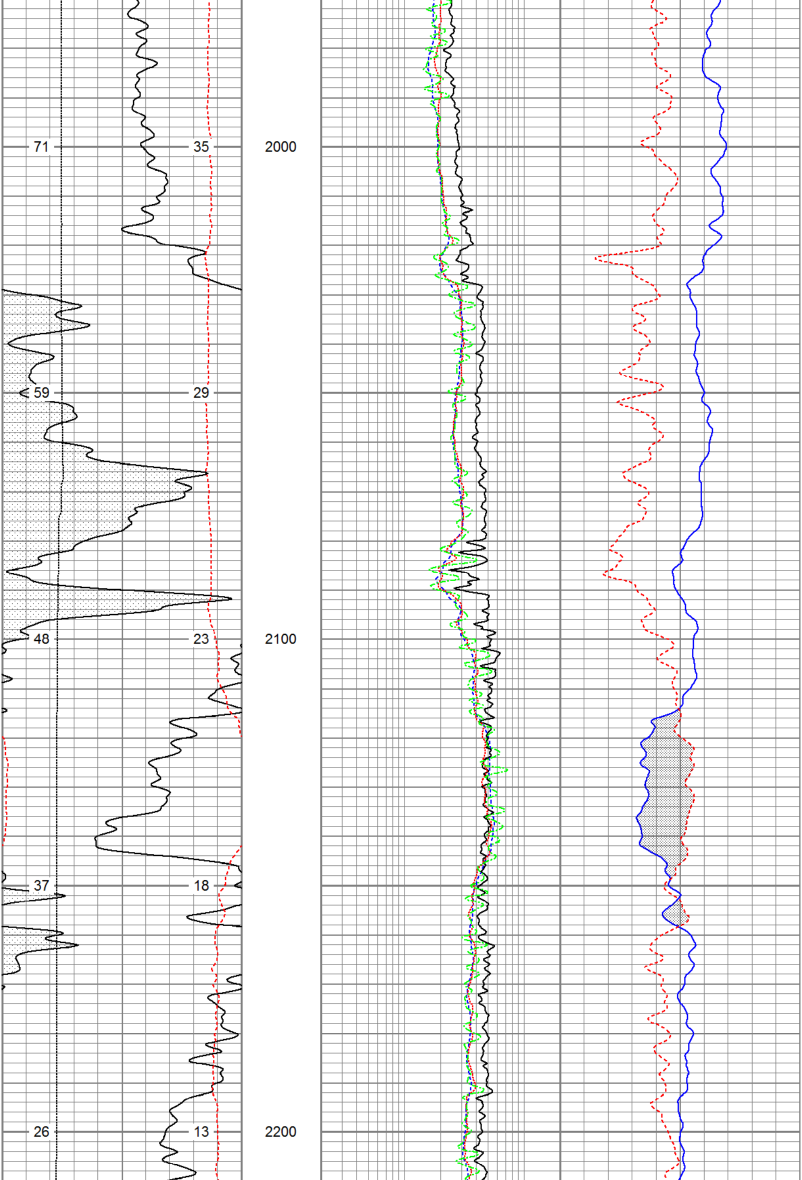
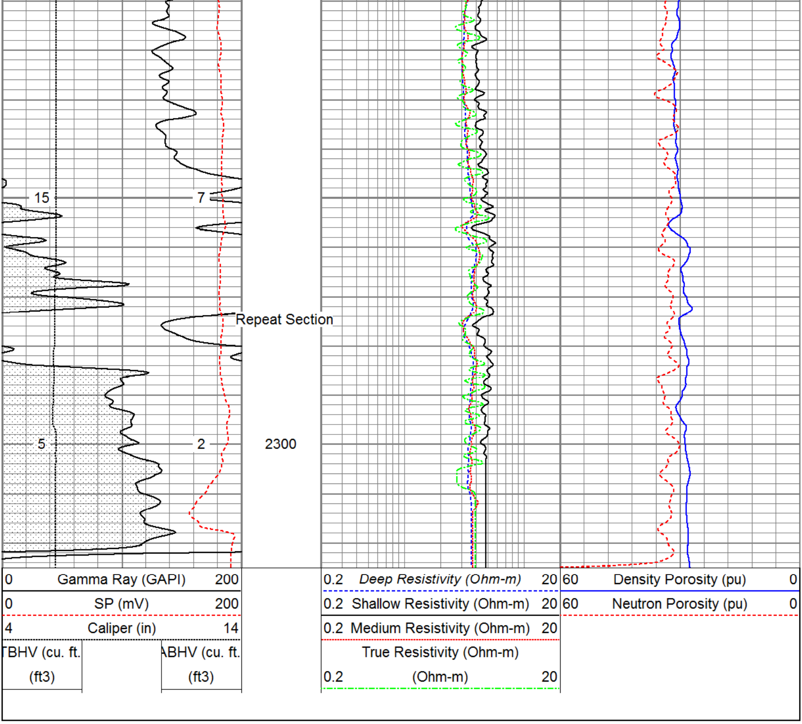
Charted by: Depth in Feet scaled 1:240







Calibration Report

Database File: 13610.db
Dataset Pathname: Final
Dataset Creation: Sat Jul 19 05:22:12 2014

Dual Induction Calibration Report

Serial-Model: 1011-PSI
Surface Cal Performed:

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	0.000	1.000	0.000	1.000	mmho/m	0.520	-8.000
Medium	0.000	1.000	0.000	1.000	mmho/m	0.470	-18.000

Compensated Density Calibration Report

Serial-Model: 998-PSI
Master Calibration Performed: Sat Jul 19 01:41:20 2014

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	7210.00	9816.00	cps
Aluminum	2.690	g/cc	1326.00	6231.00	cps

	Size		Reading
Small Ring		in	
Medium Ring		in	
Large Ring		in	

Compensated Neutron Calibration Report

Serial Number: 826

Tool Model: PSI

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.9000
Long Space	1.00	cps	1.00	cps	2.1500

Gamma Ray Calibration Report

Serial Number:	939	
Tool Model:	PSI	
Performed:	Sat Jul 19 01:41:30 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6200	GAPI/cps