PIONEER

Pioneer Energy Services

HIGH RESOLUTION INDUCTION COMPENSATED DENSITY COMPENSATED NEUTRON

Company	St. James Energy Operating, Inc.
Well	Albrighton 3-10
Field	Harlech
County	Weld
State	Colorado

Company St. James Energy Operating, Inc.
Well Albrighton 3-10
Field Harlech
County Weld State Colorado

Location: API #: 05123372810000
SHL: 1170' FSL & 1318' FWL SWSW
BHL: 684' FSL & 1981' FWL SESW
SEC 10 TWP 6N RGE 64W

Other Services
None

Permanent Datum	GL	Elevation	4807
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4821
D.F. 4820
G.L. 4807

Date	May 28, 2013	
Run Number	1	
Depth Driller	7245	
Depth Logger	7272	
Bottom Logged Interval	7272	
Top Log Interval	Casing	
Casing Driller	771	
Casing Logger	771	
Bit Size	7-7/8"	
Type Fluid in Hole	Chem Gel	
Density / Viscosity	9.4 / 52	
pH / Fluid Loss	9.0 / 12.0	
Source of Sample	Flowline	
Rm @ Meas. Temp	3.05 @ 70 F	
Rmf @ Meas. Temp	2.44 @ 70 F	
Rmc @ Meas. Temp	3.66 @ 70 F	
Source of Rmf / Rmc	Measure / Calc	
Rm @ BHT	1.04 @ 205 F	
Time Circulation Stopped	0745	
Time Logger on Bottom	1615	
Maximum Recorded Temperature	205 F	
Equipment Number	50	
Location	Brighton, CO	
Recorded By	Clint Christensen	
Witnessed By	Kent Moore	Mark Scanniello

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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 4-1/2" casing
Cade Drilling Rig 25
Thank you for using Pioneer Energy Services.

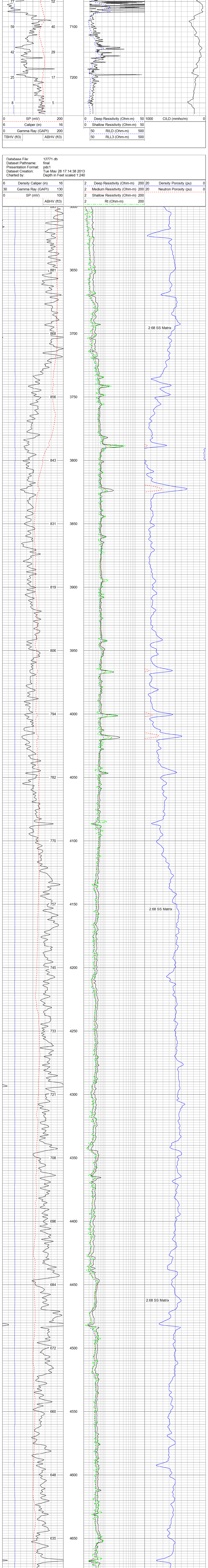
Database File:	12771.db
Dataset Pathname:	final
Presentation Format:	dilin5
Dataset Creation:	Tue May 28 17:14:38 2013
Charted by:	Depth in Feet scaled 1:600

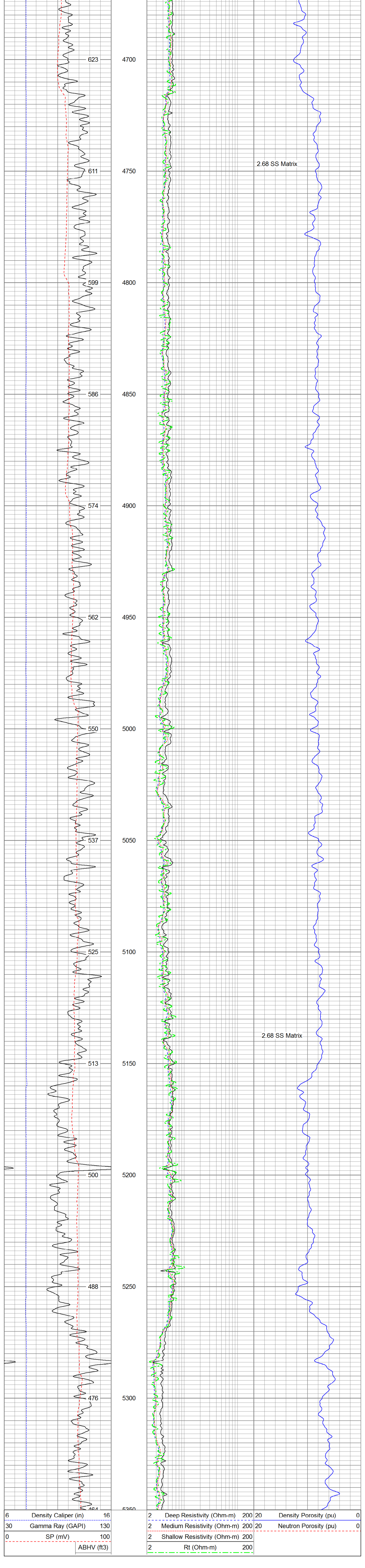
0	SP (mV)	200	0	Deep Resistivity (Ohm-m)	50	1000	CILD (mmho/m)	0
6	Caliper (in)	16	0	Shallow Resistivity (Ohm-m)	50			
0	Gamma Ray (GAPI)	200	50	RILD (Ohm-m)	500			
TBHV (ft3)		ABHV (ft3)	50	RLL3 (Ohm-m)	500			

0	SP (mV)	200	0	Deep Resistivity (Ohm-m)	50	1000	CILD (mmho/m)	0
6	Caliper (in)	16	0	Shallow Resistivity (Ohm-m)	50			
0	Gamma Ray (GAPI)	200	50	RILD (Ohm-m)	500			
TBHV (ft3)		ABHV (ft3)	50	RLL3 (Ohm-m)	500			

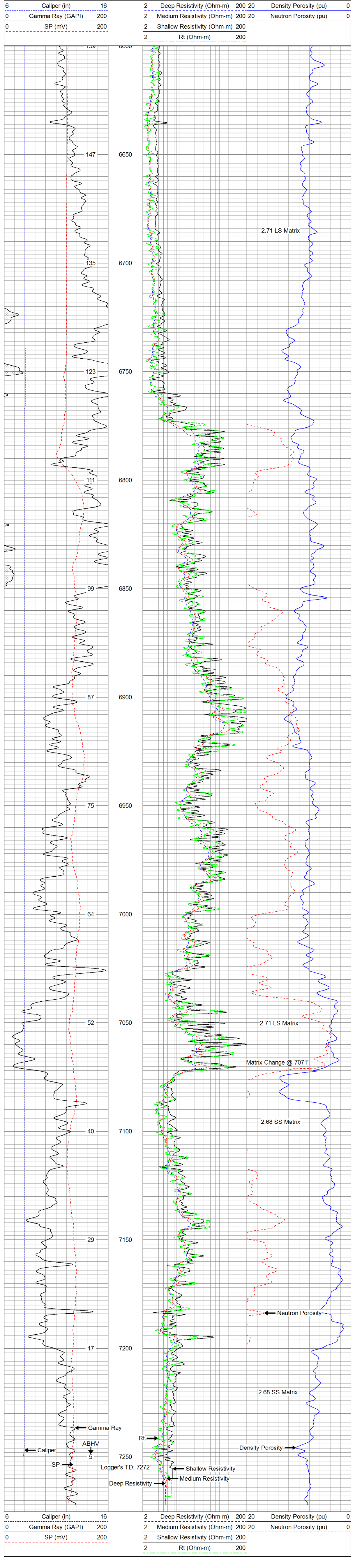
Database File:	12771.db
Dataset Pathname:	final
Presentation Format:	pdc1
Dataset Creation:	Tue May 28 17:14:38 2013
Charted by:	Depth in Feet scaled 1:240

6	Density Caliper (in)	16	2	Deep Resistivity (Ohm-m)	200	20	Density Porosity (pu)	0
30	Gamma Ray (GAPI)	130	2	Medium Resistivity (Ohm-m)	200	20	Neutron Porosity (pu)	0
0	SP (mV)	100	2	Shallow Resistivity (Ohm-m)	200			
		ABHV (ft3)	2	Rt (Ohm-m)	200			

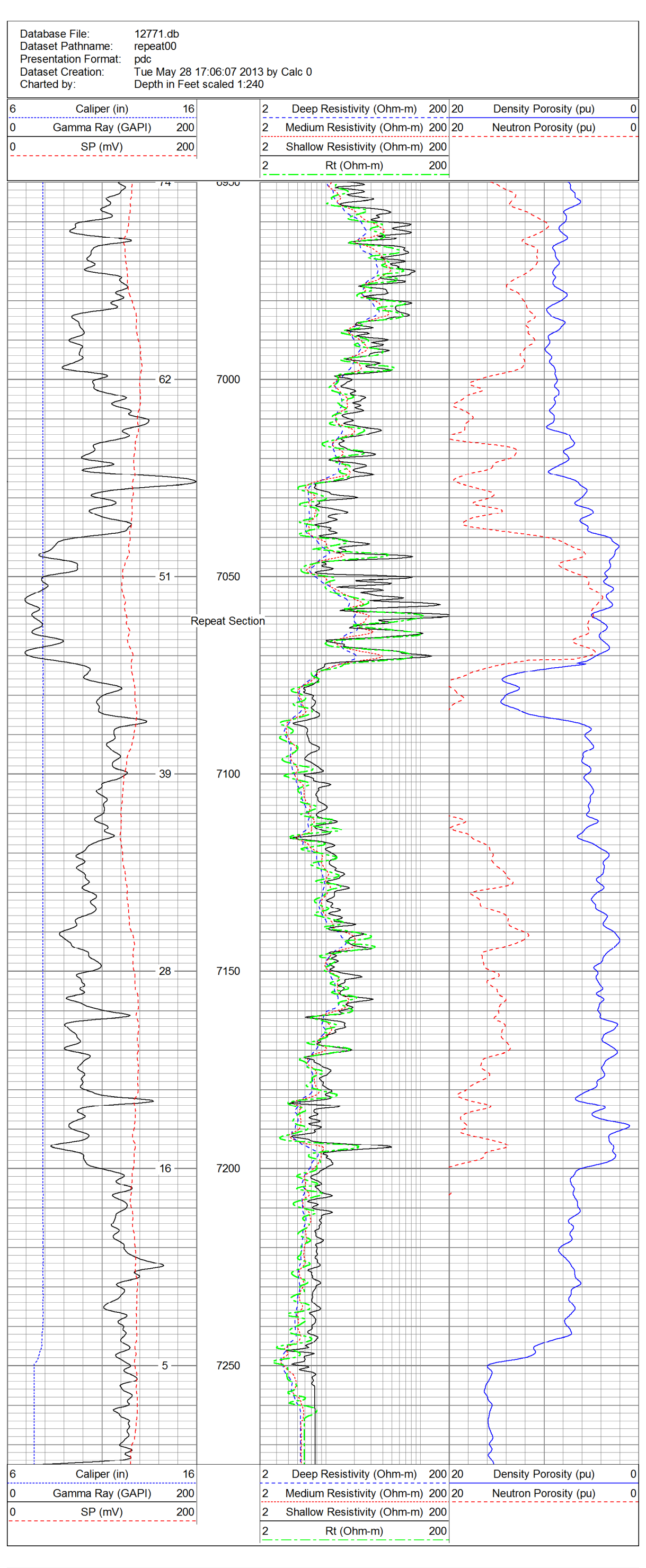




Database File: 12771.db
Dataset Pathname: final
Presentation Format: pdc
Dataset Creation: Tue May 28 17:14:38 2013
Charted by: Depth in Feet scaled 1:240

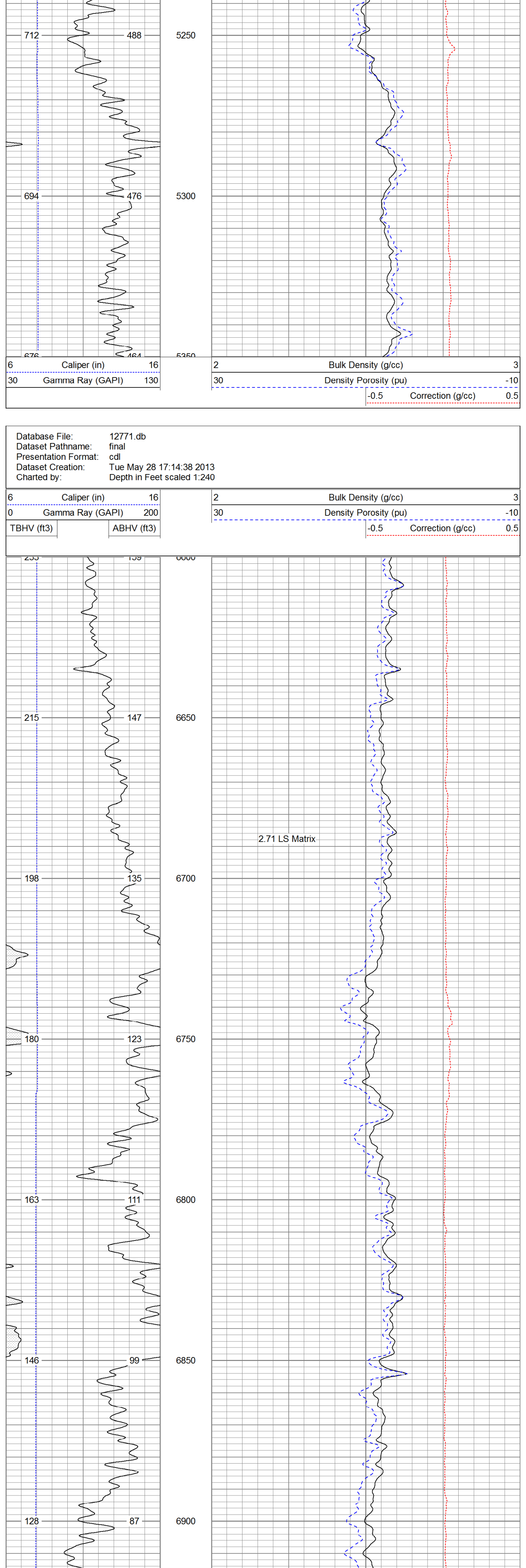


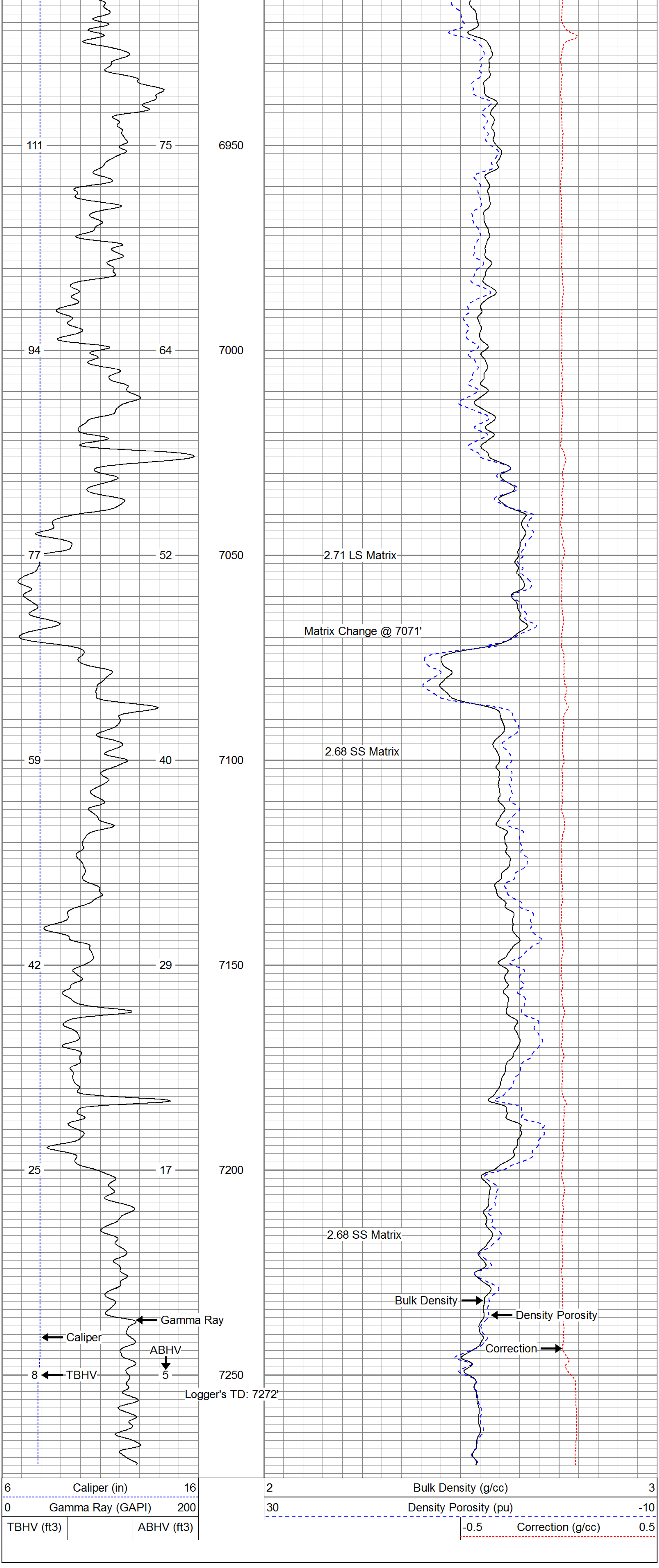
Database File: 12771.db
Dataset Pathname: repeat00
Presentation Format: pdc
Dataset Creation: Tue May 28 17:06:07 2013 by Calc 0
Charted by: Depth in Feet scaled 1:240



Database File: 12771.db
Dataset Pathname: final
Presentation Format: cdl1
Dataset Creation: Tue May 28 17:14:38 2013
Charted by: Depth in Feet scaled 1:240

Database File: 12771.db
Dataset Pathname: final
Presentation Format: cdl
Dataset Creation: Tue May 28 17:14:38 2013
Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 12771.db
Dataset Pathname: pass10
Dataset Creation: Tue May 28 18:22:39 2013 by Log 0

Dual Induction Calibration Report

Serial-Model: 1017-PSI
Surface Cal Performed:

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	4908.160	12644.400	9.000	365.000	mmho/m	0.645	-48.000
Medium	2818.360	8491.080	9.000	288.000	mmho/m	0.545	-41.000

Compensated Density Calibration Report

Serial-Model: 979-PSI
Master Calibration Performed: Wed May 22 02:07:53 2013

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	10282.50	13462.30	cps
Aluminum	2.690	g/cc	1879.11	8643.00	cps

	Size		Reading
Small Ring		in	
Medium Ring		in	
Large Ring		in	

Compensated Neutron Calibration Report

Serial Number: 853
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	2.0350

Gamma Ray Calibration Report

Serial Number: 921
Tool Model: PSI
Performed: Wed May 22 02:17:54 2013

Calibrator Value: 248.0 GAPI

Background Reading: 35.0 cps
Calibrator Reading: 350.0 cps

Sensitivity: 0.5700 GAPI/cps