PSI
PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
DUAL INDUCTION

Company
Well
Field
County
State/Prv

Company Bonanza Creek Energy Inc.
Well Antelope 12 - 31
Field Wattenberg
County Weld State/Province Colorado

Location
SHL: 1514' FNL & 1125' FWL SW NW
BHL: 1999' FNL & 671' FWL SW NW
Sec - 31, Twp - 5N, Rge - 62W

Other Services
None

Permanent Datum	GL	Elevation	4588'
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4598'
D.F. 4597'
G.L. 4588'

Date	June 17, 2011		
Run Number	1		
Depth Driller	6728'		
Depth Logger	6734'		
Bottom Logged Interval	6734'		
Top Log Interval	Casing		
Casing Driller	432'		
Casing Logger	432'		
Bit Size	7-7/8"		
Type Fluid in Hole	Polymer Gel		
Density / Viscosity	9.2 / 48		
pH / Fluid Loss	8.5 / 10.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.30 @ 85 F		
Rmf @ Meas. Temp	1.75 @ 85 F		
Rmc @ Meas. Temp	3.50 @ 85 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.16 @ 198 F		
Time Circulation Stopped	2100 6/16		
Time Logger on Bottom	0145 6/17		
Maximum Recorded Temperature	198 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Shaun Schuman	Josh Gorney	
Witnessed By	John Adams	Brian Cunningham	

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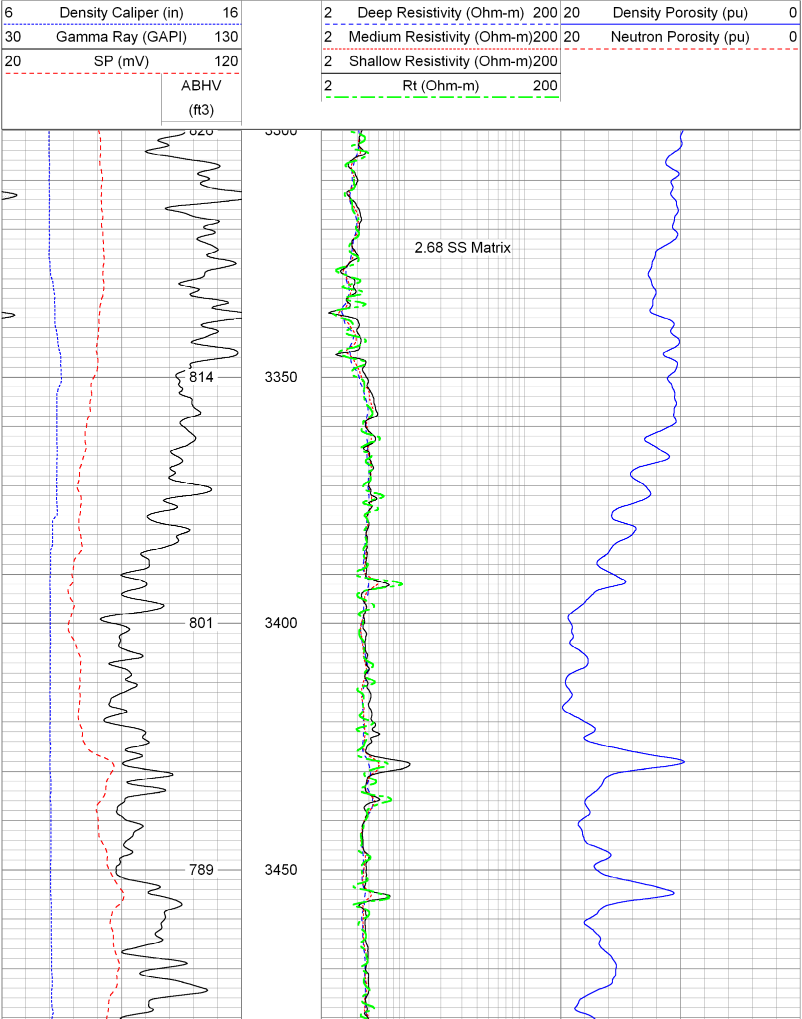
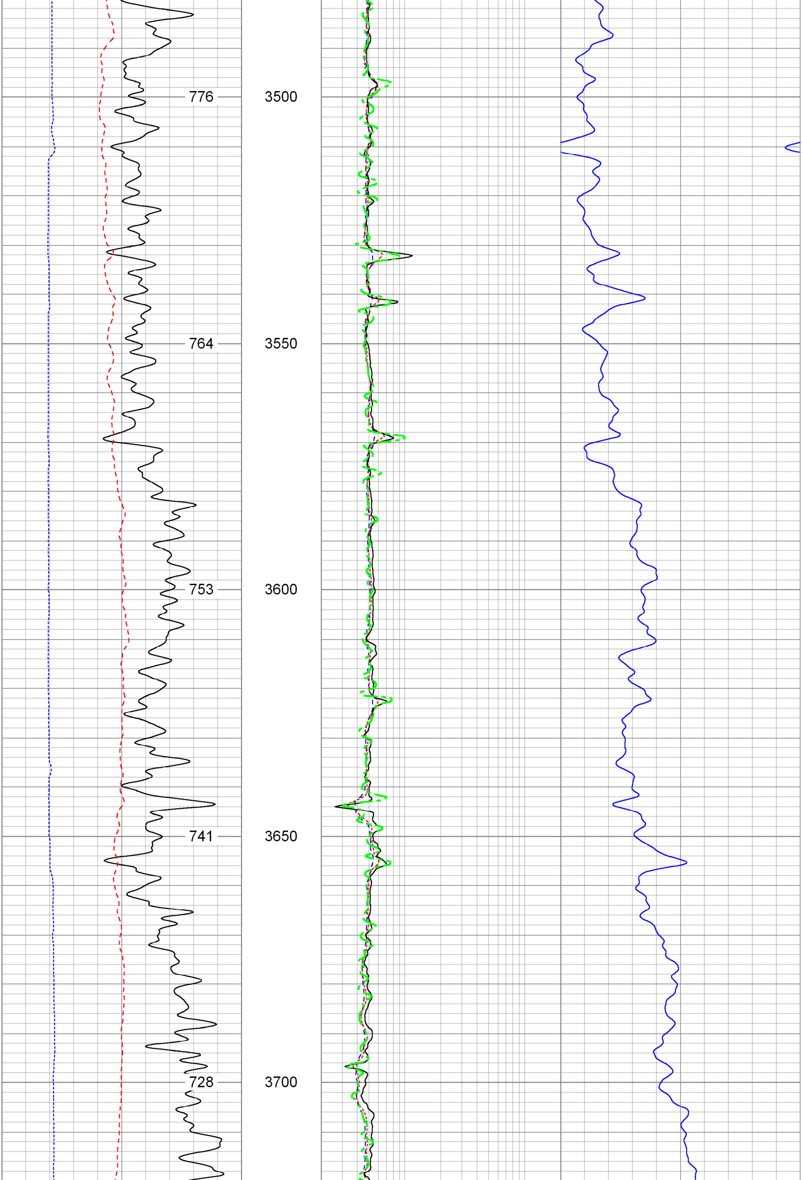
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

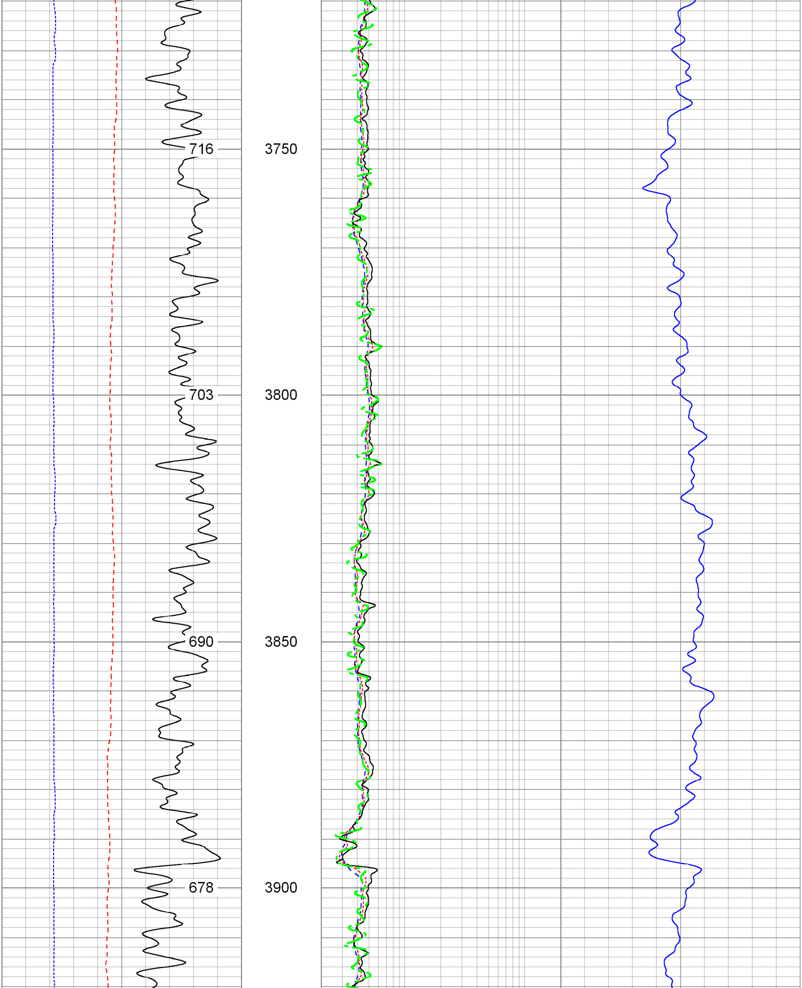
Comments

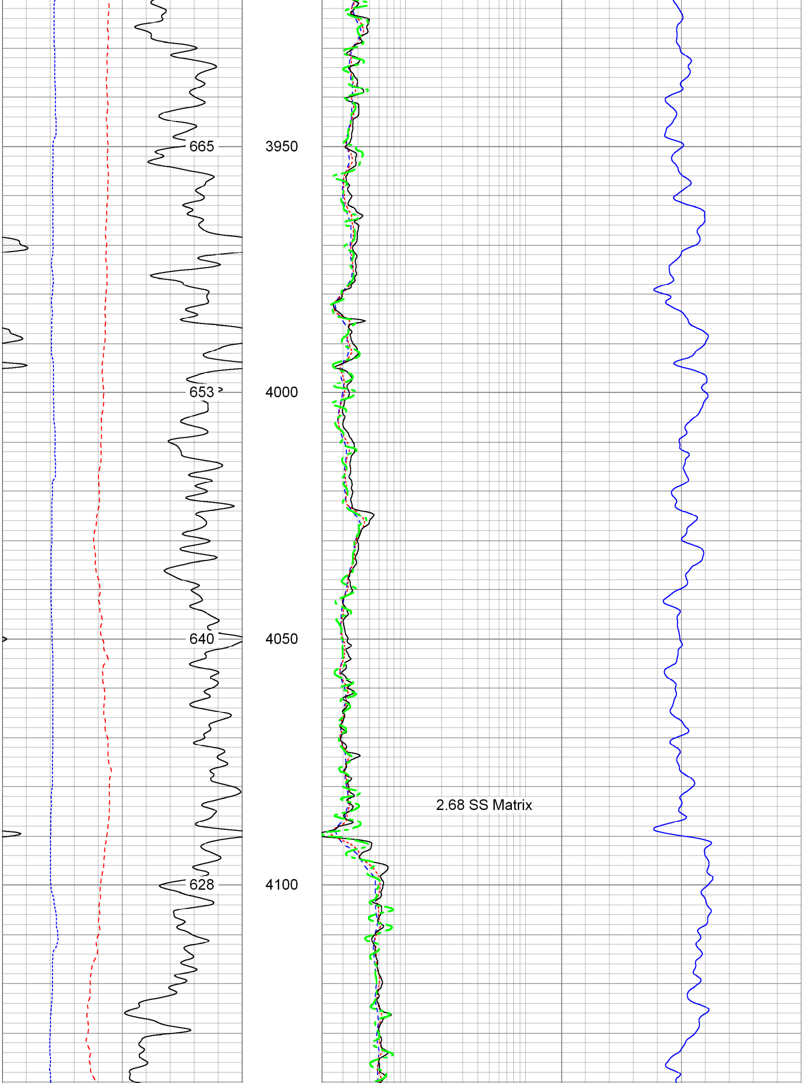
Annular volume calculated for 4.5" casing
Mid Continent Energy Rig 1
Thank you for using Phoenix Surveys!!
API #: 05-123-32840

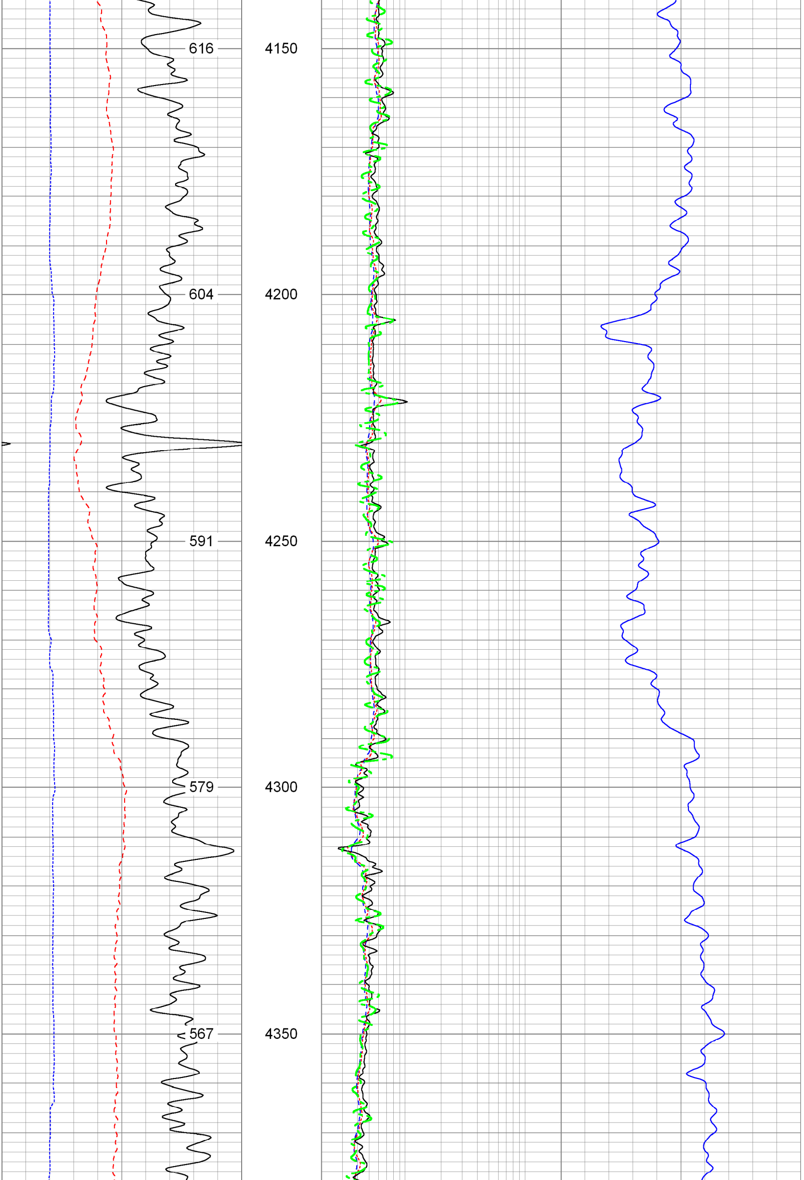
Database File: 11763.db
Dataset Pathname: main
Presentation Format: pdc1
Dataset Creation: Fri Jun 17 02:29:12 2011
Charted by: Depth in Feet scaled 1:240

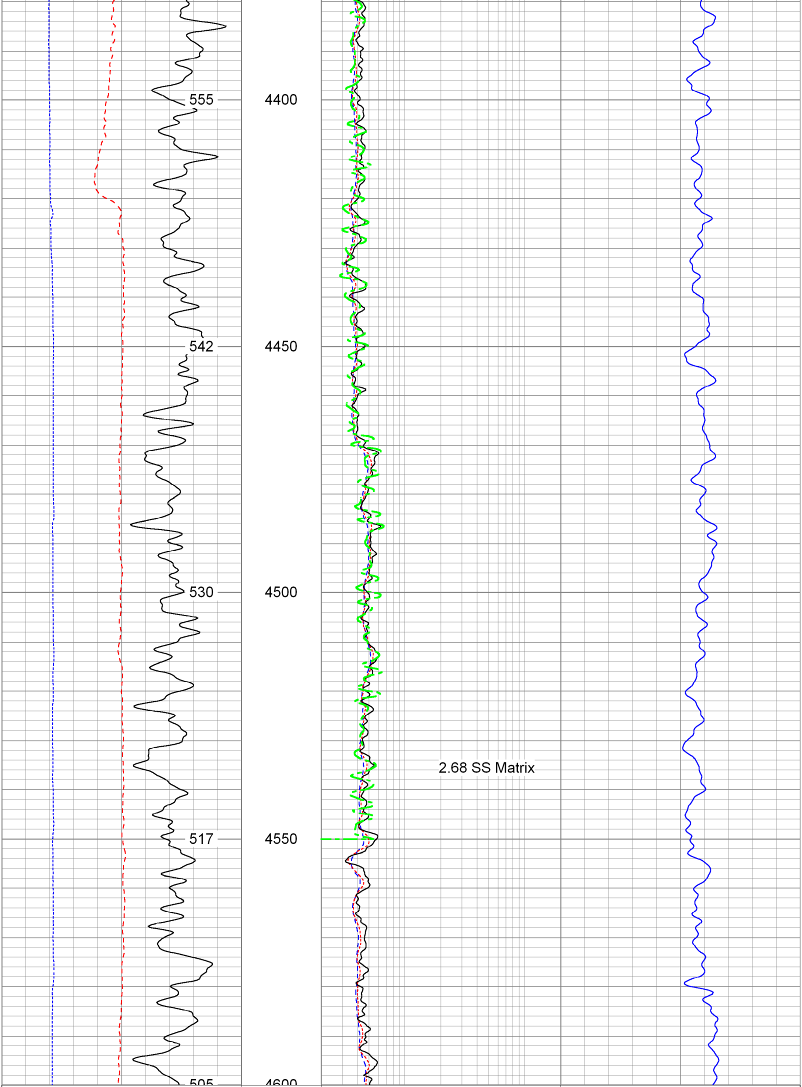












6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
20 SP (mV) 120
ABHV (ft3)

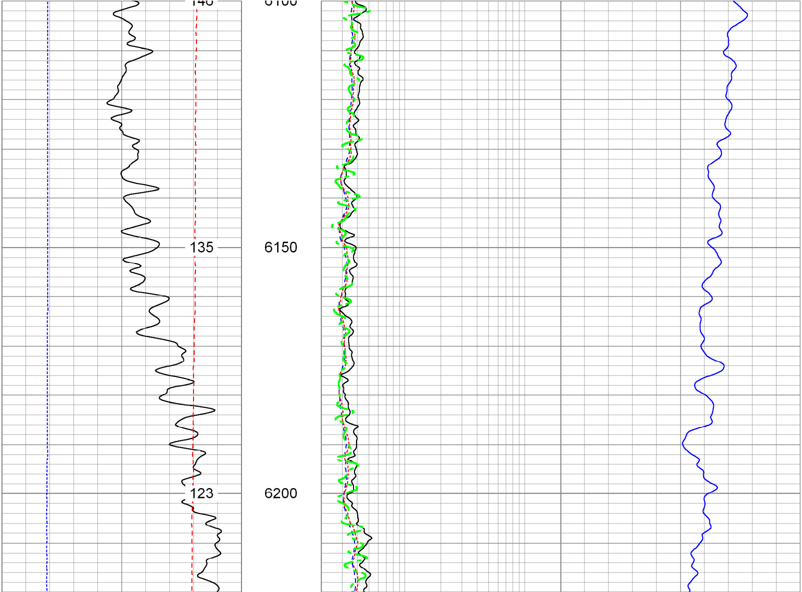
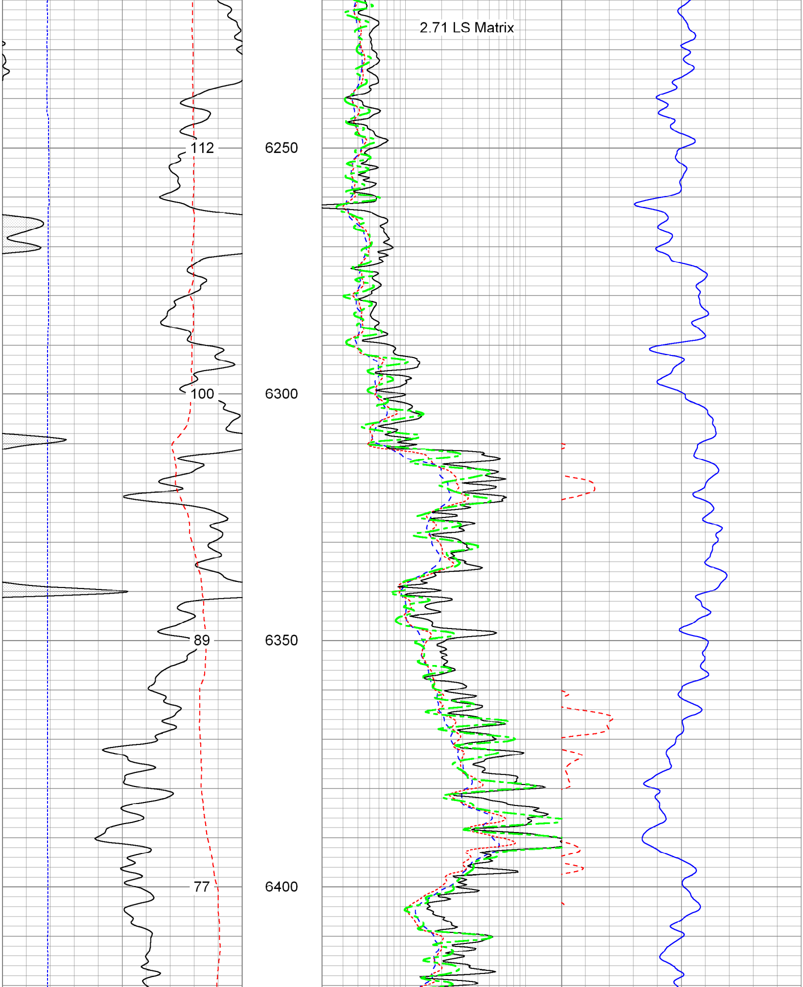
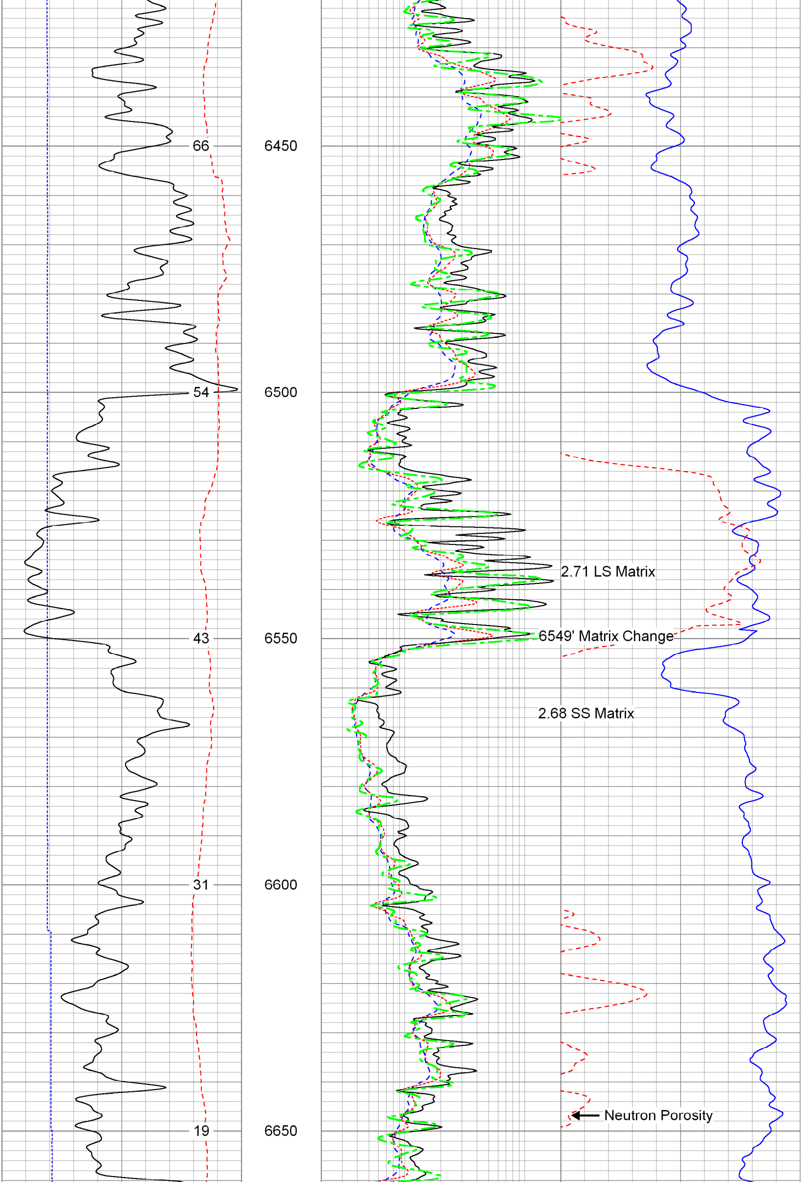
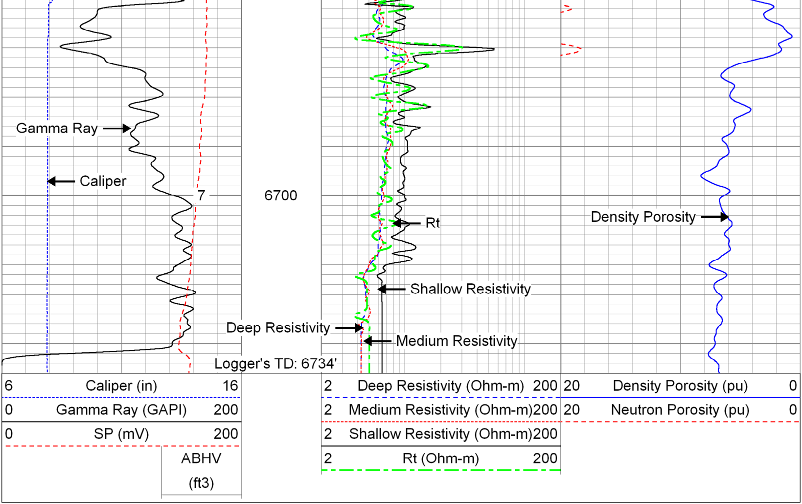
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200

20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

Database File:	11763.db
Dataset Pathname:	main
Presentation Format:	pdc
Dataset Creation:	Fri Jun 17 02:29:12 2011
Charted by:	Depth in Feet scaled 1:240

6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
ABHV (ft3)

2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200

20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0