PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company
Well
Field
County
State/Prv

Company	Bonanza Creek Energy Inc.
Well	Antelope 44-31
Field	Wattenberg
County	Weld
State/Province	Colorado

Location
SHL: 1362' FSL & 1364' FEL SE SE
BHL: 631' FSL & 674' FEL SE SE
Sec - 31, Twp - 5N, Rge - 62W

Other Services
None

Permanent Datum	GL	Elevation	4558
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4568
D.F. 4567
G.L. 4558

Date	July 16, 2011		
Run Number	1		
Depth Driller	6750		
Depth Logger	6754		
Bottom Logged Interval	6754		
Top Log Interval	Casing		
Casing Driller	433		
Casing Logger	433		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.2 / 37		
pH / Fluid Loss	9.0 / 11.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.60 @ 100 F		
Rmf @ Meas. Temp	2.30 @ 100 F		
Rmc @ Meas. Temp	4.70 @ 100 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	@ 198 F		
Time Circulation Stopped	1230		
Time Logger on Bottom	1945		
Maximum Recorded Temperature	198 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Randy Conley	Josh Gorney	
Witnessed By	John Adams		

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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

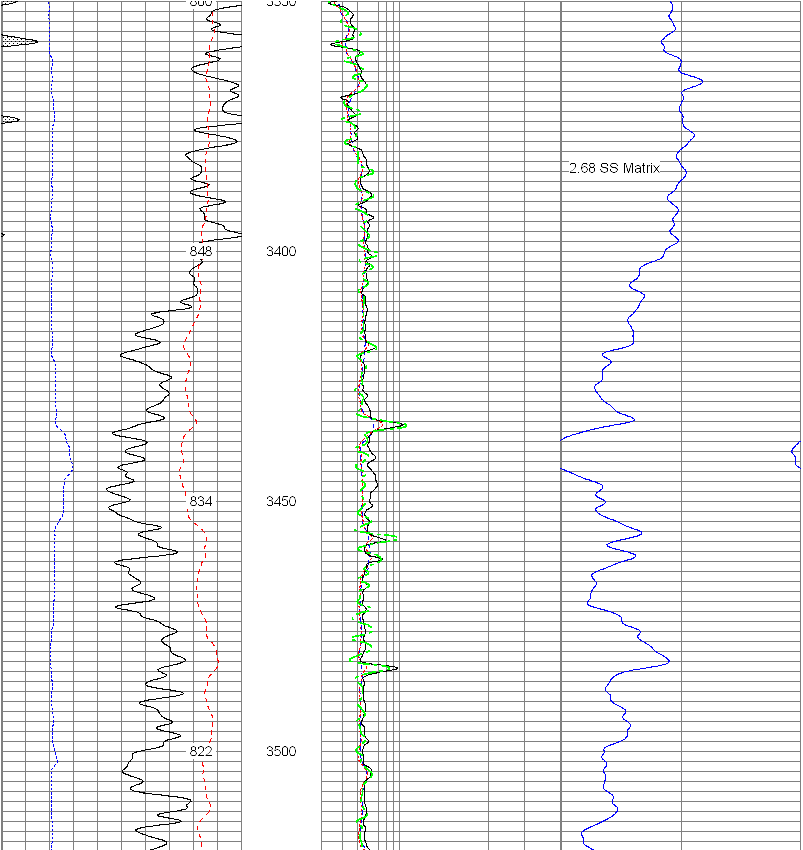
Annular volume calculated for 4.5" casing
Mid-Continent Rig 1
Thank you for using Phoenix Surveys!!
API #: 05-123-32890-00
No repeat due to hole conditions.

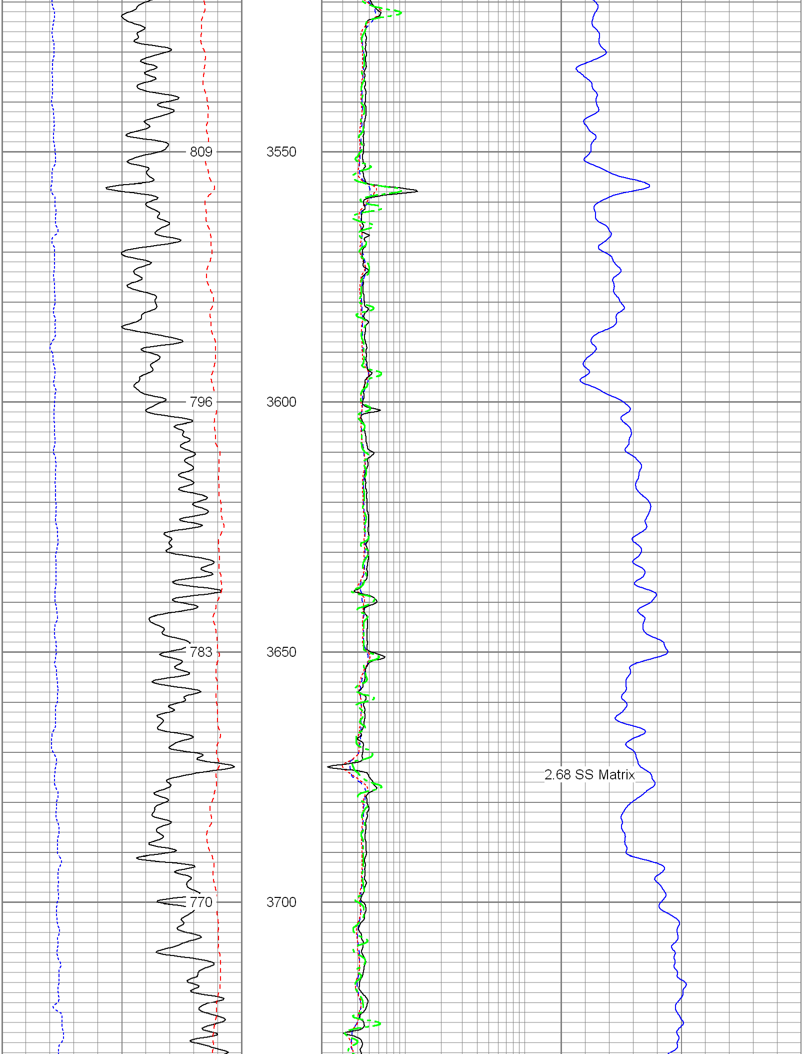
Database File: 11861.db
Dataset Pathname: main
Presentation Format: pdc1
Dataset Creation: Sat Jul 16 20:41:22 2011
Charted by: Depth in Feet scaled 1:240

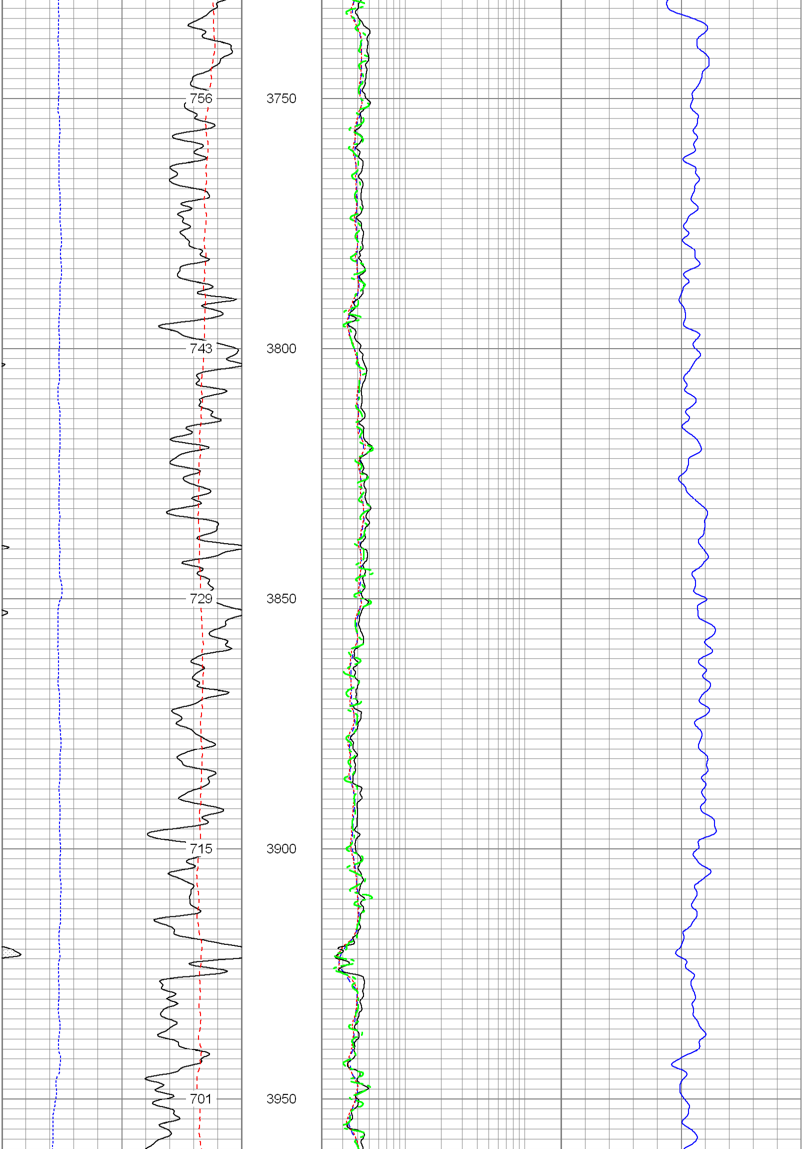
6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
70 SP (mV) 170
ABHV (ft3)

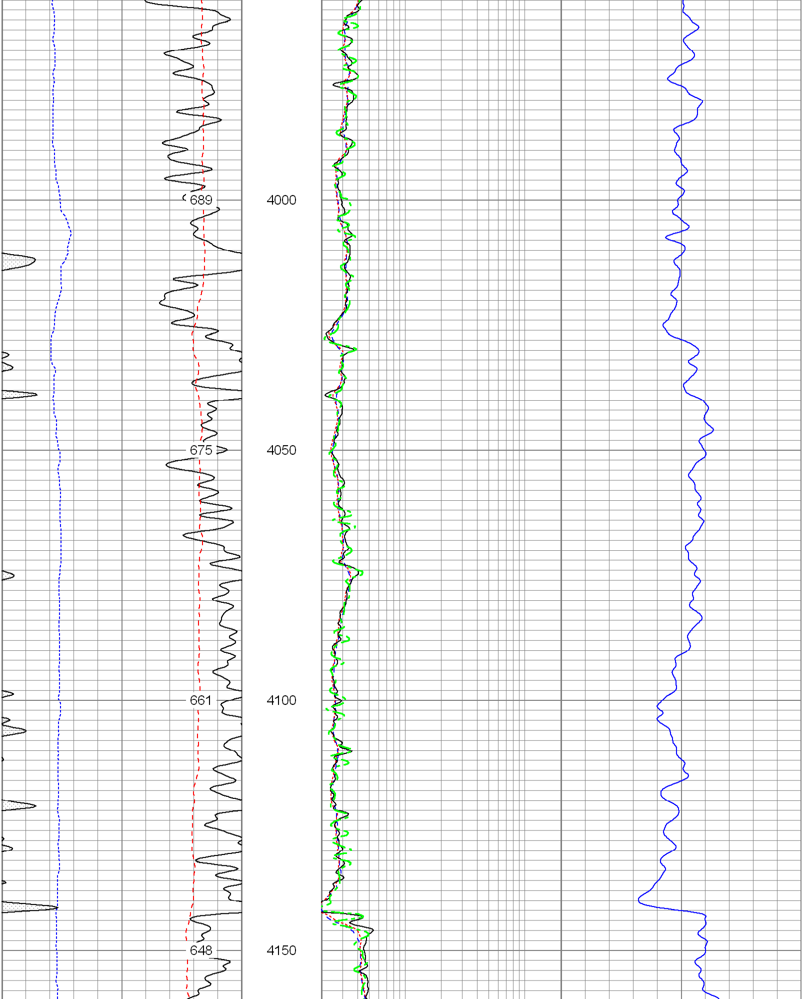
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200

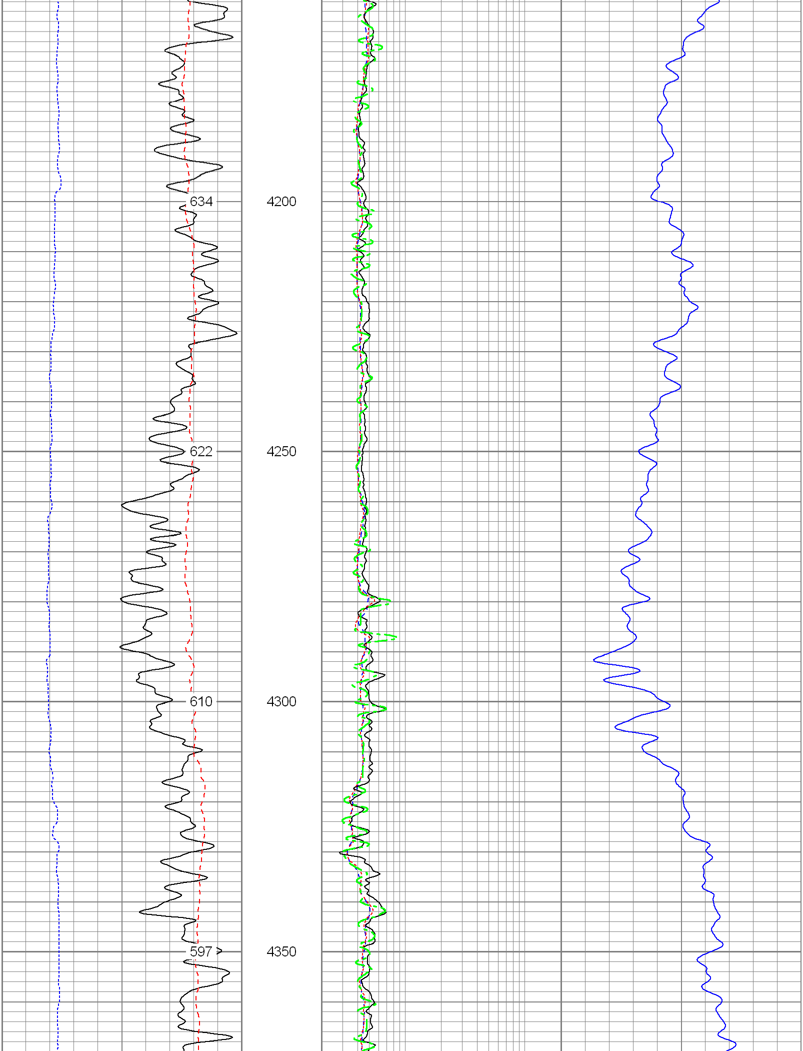
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

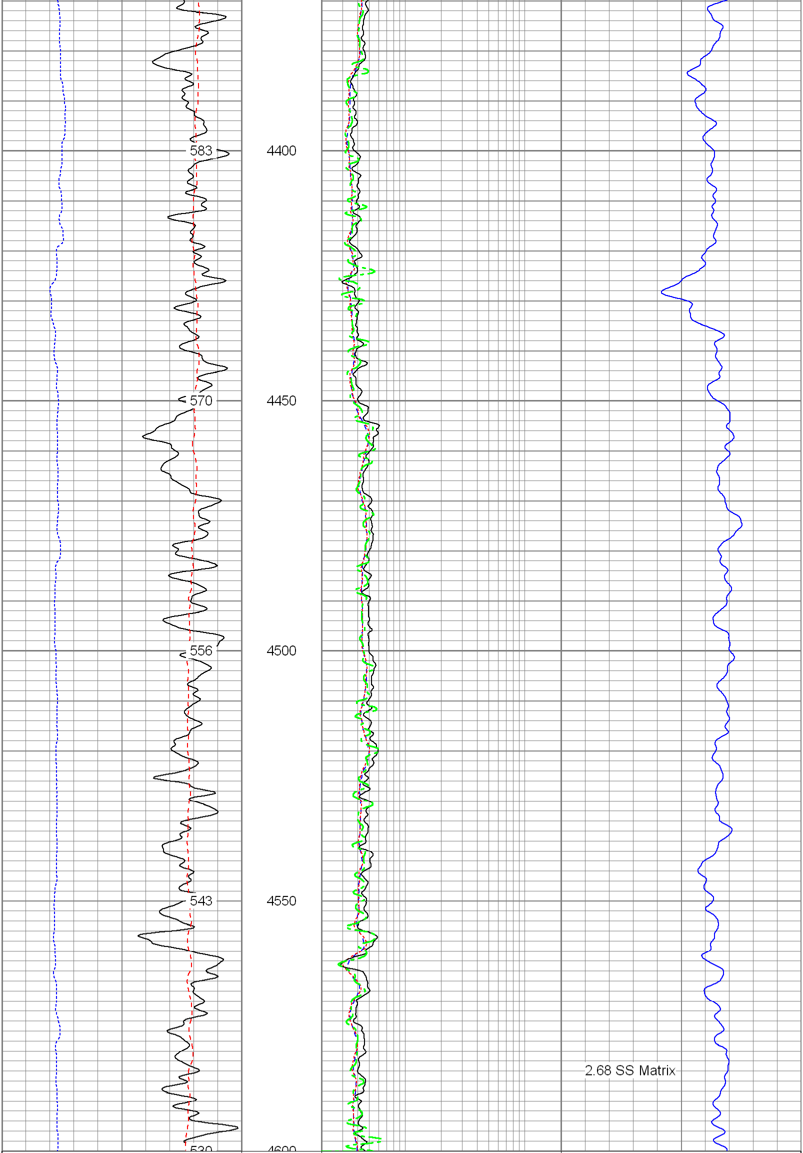












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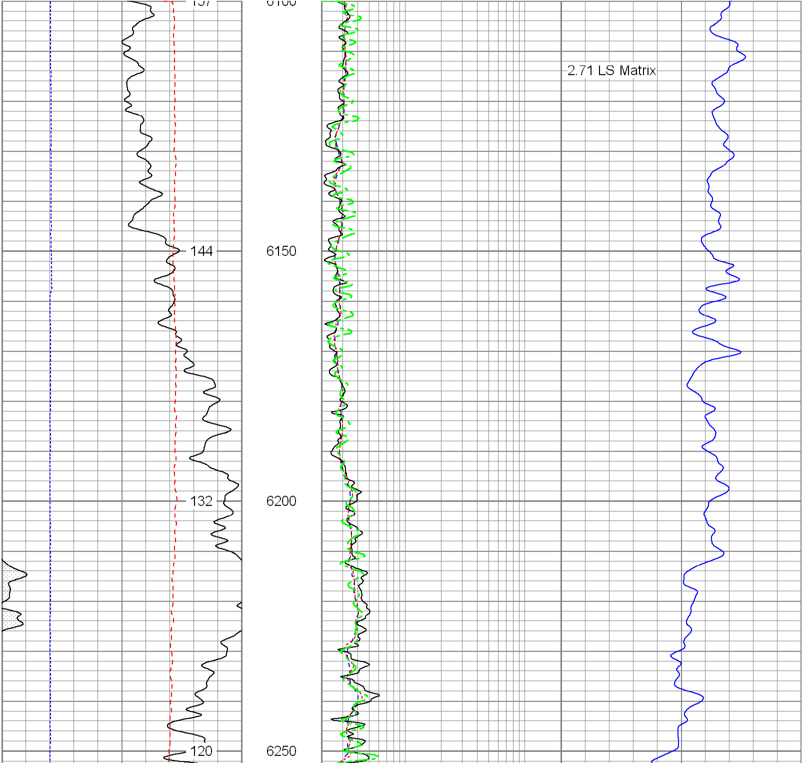
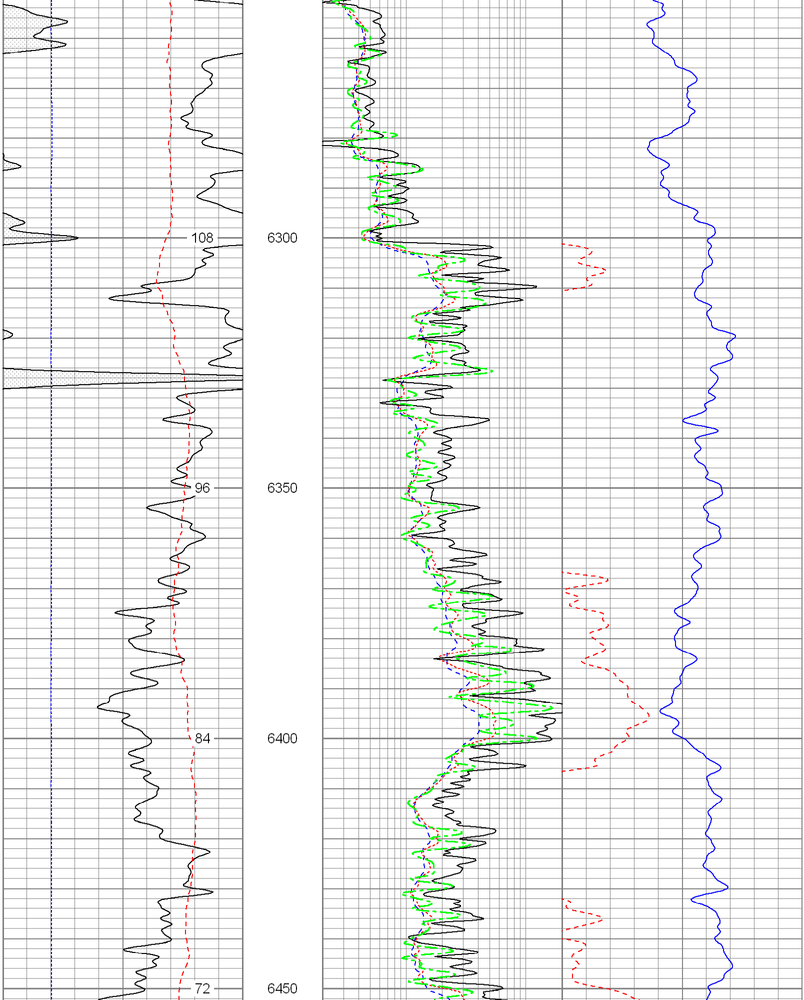
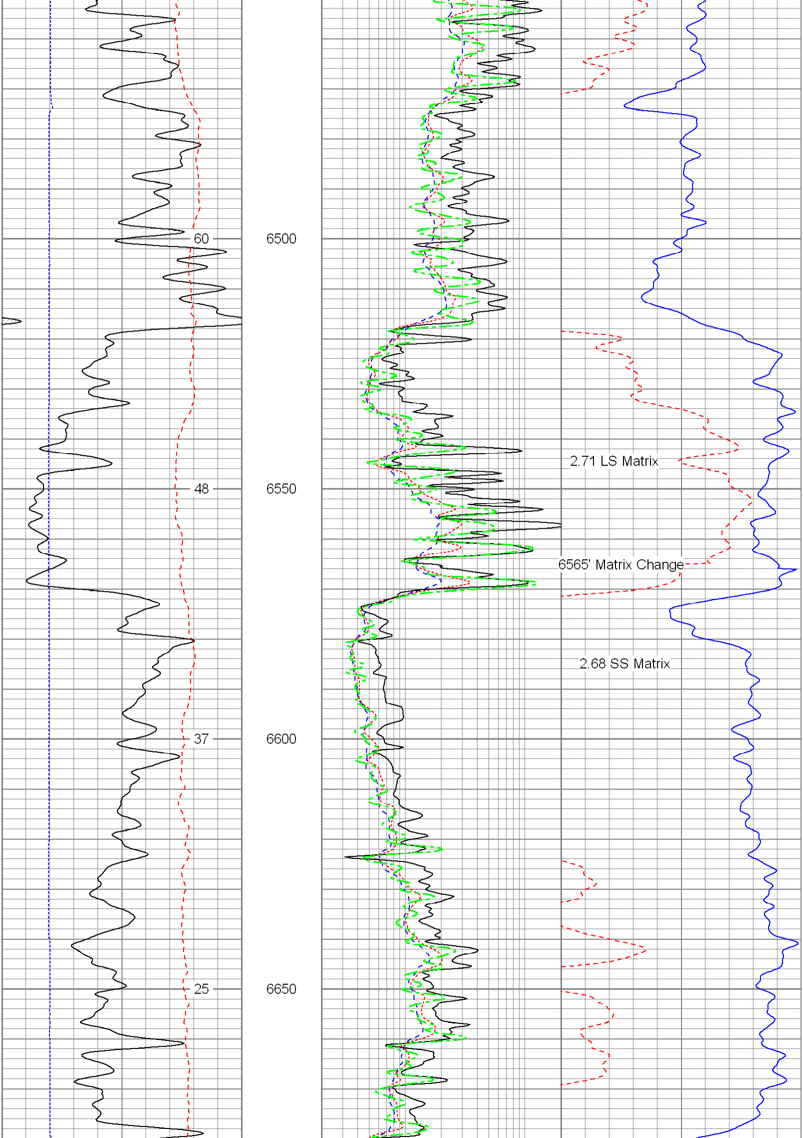
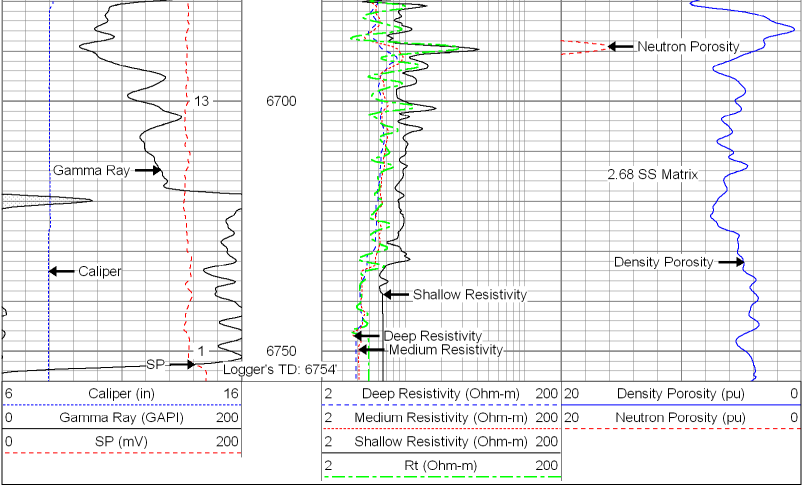
Database File:	11861.db
Dataset Pathname:	main
Presentation Format:	pdc
Dataset Creation:	Sat Jul 16 20:41:22 2011
Charted by:	Depth in Feet scaled 1:240

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

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
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