PSI
PHOENIX SURVEYS, INC.

Company	
Well	
Field	
County	
State/Prv	

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company	Noble Energy Inc.
Well	Aloysius C34-27D
Field	Wattenberg
County	Weld
State/Province	Colorado
Location	SHL: 595' FNL & 654' FEL NENE BHL: 121' FNL & 1315' FEL NWNE Sec. 34, Twp. 4N, Rge. 64W

Other Services
High
Resolution
Induction

Elevation
K.B. 4701
D.F. 4701
G.L. 4688

Permanent Datum	GL	Elevation	4688
Log Measured From	KB		
Drilling Measured From	KB		

Date	January 31, 2011			
Run Number	1			
Depth Driller	7163			
Depth Logger	7160			
Bottom Logged Interval	7140			
Top Log Interval	2730			
Casing Driller	649			
Casing Logger	Not Logged			
Bit Size	7-7/8"			
Type Fluid in Hole	Chem Gel			
Density / Viscosity	9.5 / 44			
pH / Fluid Loss	8.0 / 10.8			
Source of Sample	Flowline			
Rm @ Meas. Temp	3.58 @ 60 F			
Rmf @ Meas. Temp	2.68 @ 60 F			
Rmc @ Meas. Temp	4.47 @ 60 F			
Source of Rmf / Rmc	Measure / Calc			
Rm @ BHT	1.03 @ 209 F			
Time Circulation Stopped	0015			
Time Logger on Bottom	0845			
Maximum Recorded Temperature	209 F			
Equipment Number	52			
Location	Brighton, CO			
Recorded By	Maciej Staron			
Witnessed By	Roger Foster			

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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
Ensign Drilling Rig 126
Thank you for using Phoenix Surveys!!
API #: 05-123-31190-0000
No Repeat due to hole conditions!

Database File:	11398.db
Dataset Pathname:	pass2.4
Presentation Format:	pdc1
Dataset Creation:	Mon Jan 31 10:13:38 2011
Charted by:	Depth in Feet scaled 1:240

6 Density Caliper (in) 16

30 Gamma Ray (GAPI) 130

100 SP (mV) 200

ABHV (ft3)

2 Deep Resistivity (Ohm-m) 200

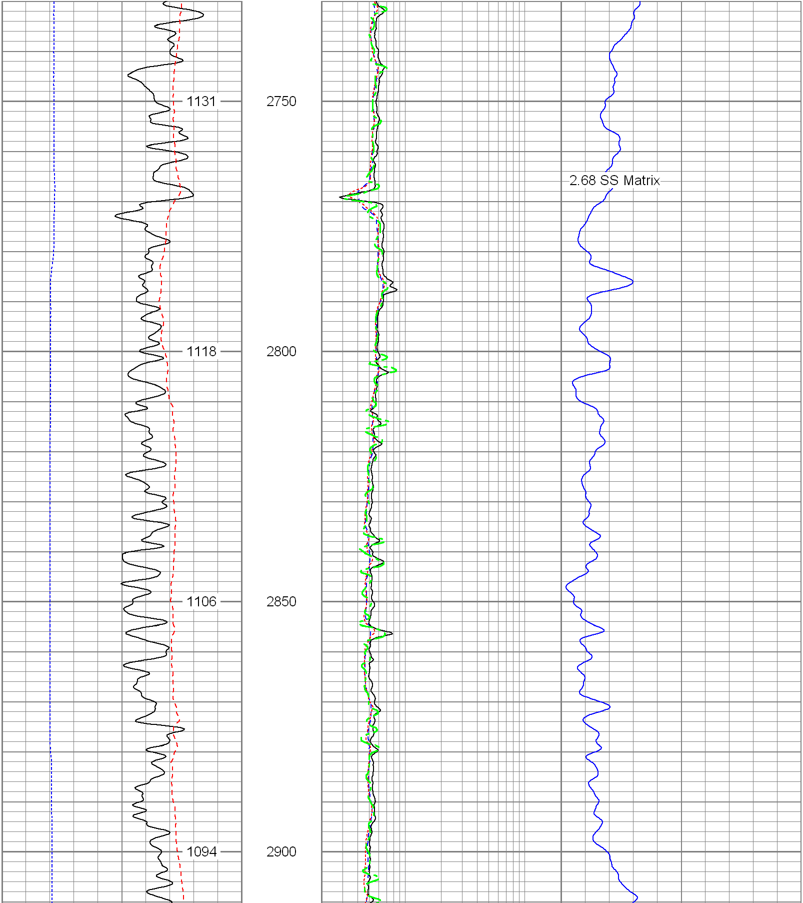
2 Medium Resistivity (Ohm-m) 200

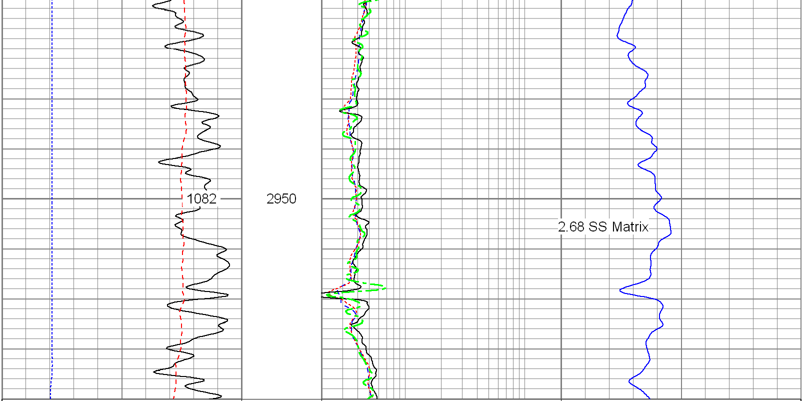
2 Shallow Resistivity (Ohm-m) 200

2 Rt (Ohm-m) 200

20 Density Porosity (pu) 0

20 Neutron Porosity (pu) 0





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

Database File: 11398.db
Dataset Pathname: pass2.4
Presentation Format: pdc1
Dataset Creation: Mon Jan 31 10:13:38 2011
Charted by: Depth in Feet scaled 1:240

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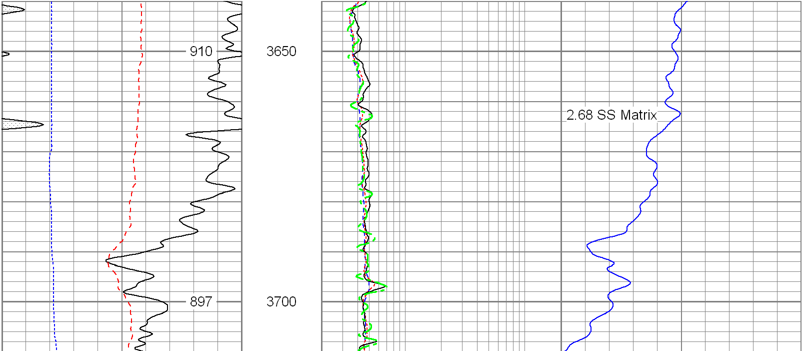
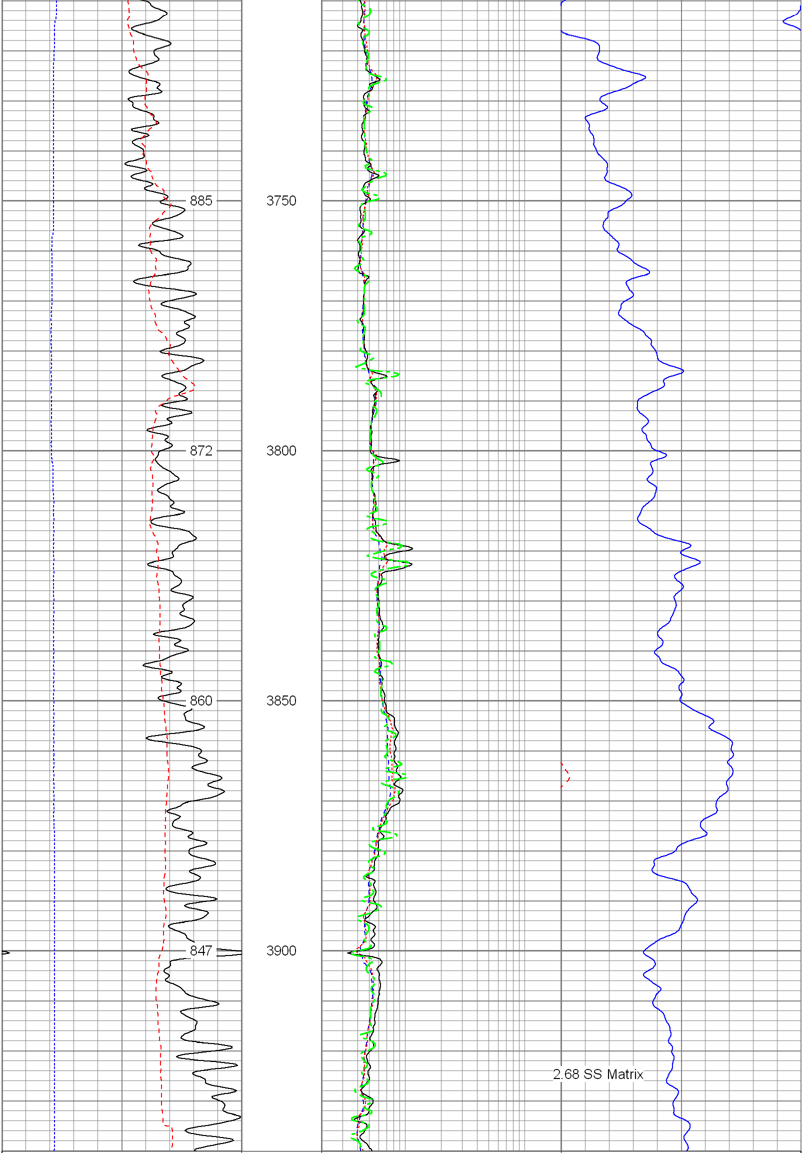
30 Gamma Ray (GAPI) 130		2 Medium Resistivity (Ohm-m) 200	20 Neutron Porosity (pu) 0
100 SP (mV) 200		2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)		2 Rt (Ohm-m) 200	





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ABHV (ft3)	2 Rt (Ohm-m) 200	

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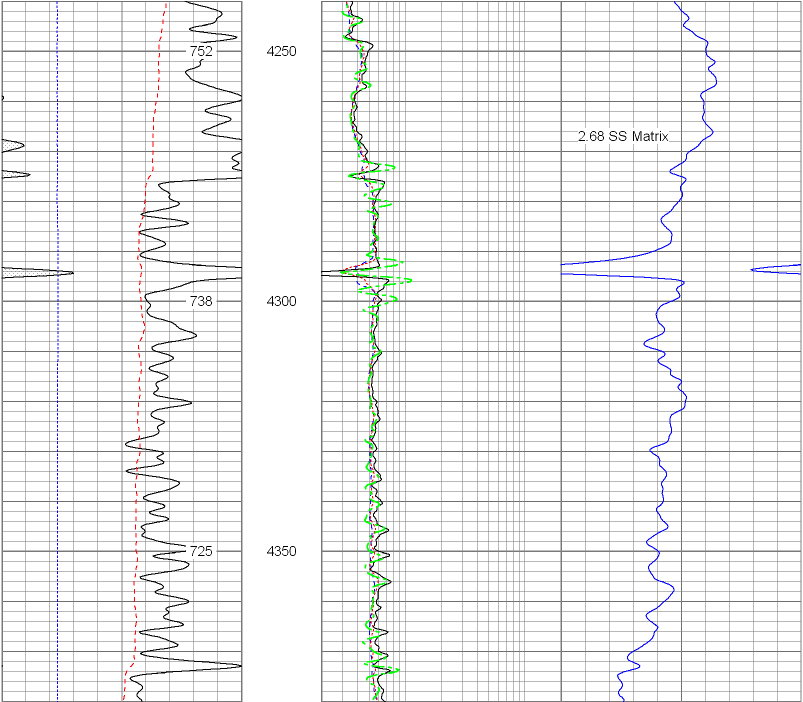

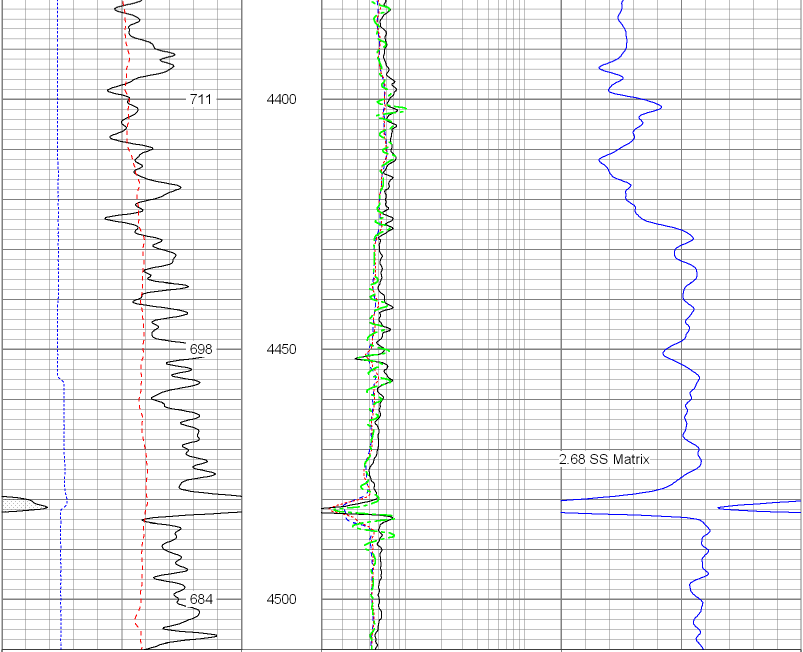

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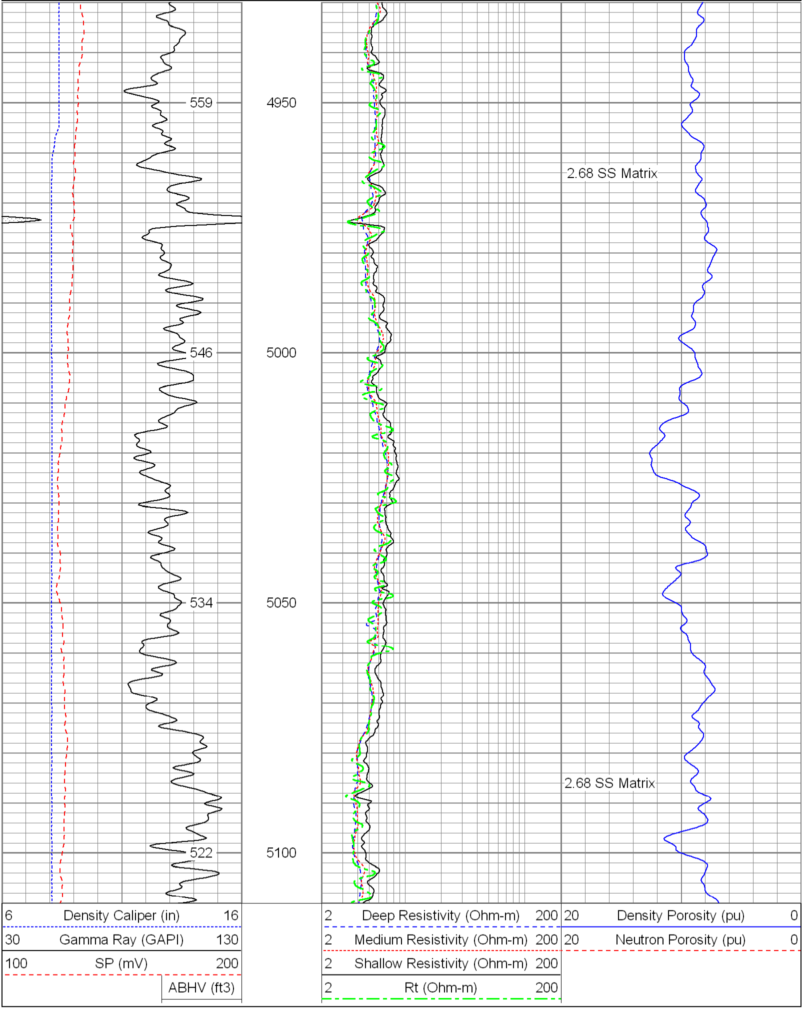

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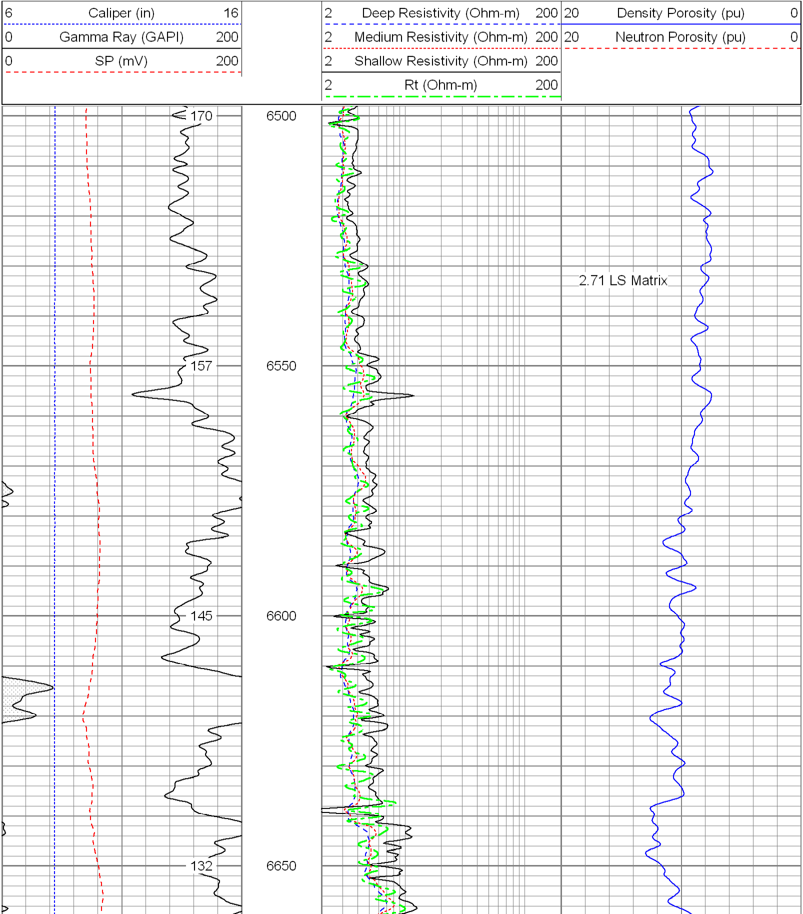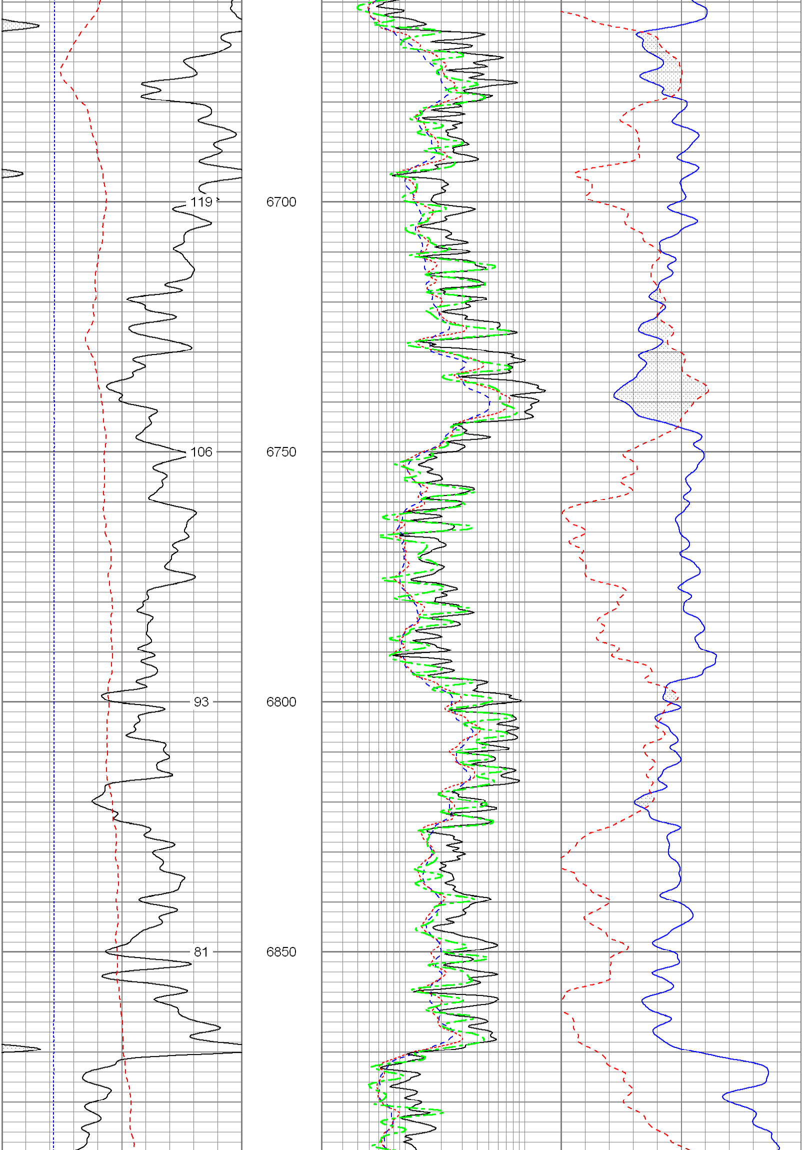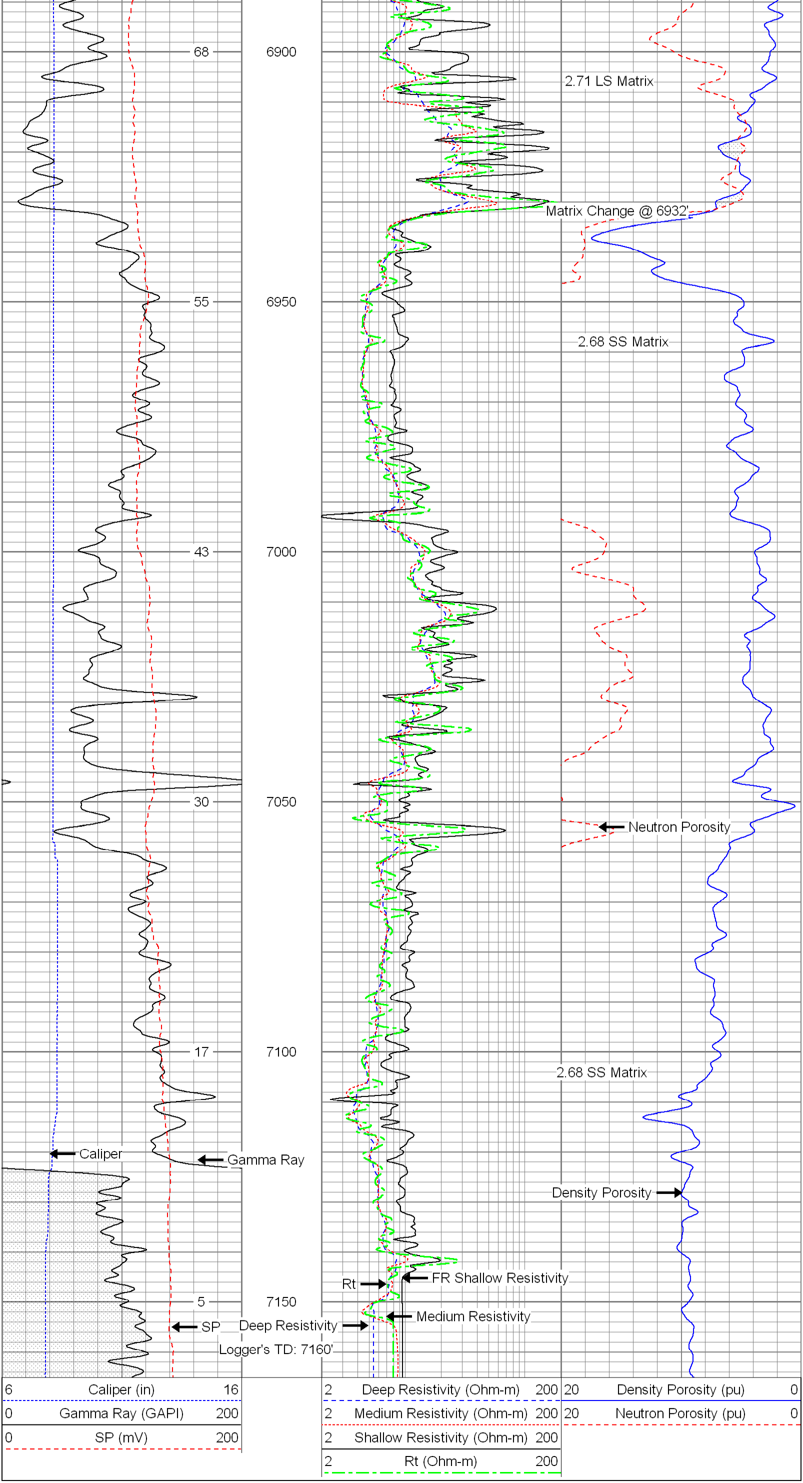
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0 SP (mV) 200
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2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
170
6500
157
6550
145
6600
132
6650
2.71 LS Matrix