PSI
PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION

Company
Well
Field
County
State/Prv

Company **Noble Energy Inc.**
Well **IGO Farms J28-32D**
Field **Wattenberg**
County **Weld** State/Province **Colorado**

Location
SHL: 1427' FNL & 996' FWL SW NW
BHL: 2570' FNL & 66' FWL SW NW
Sec. 28, Twp. 5N, Rge. 66W

Other Services
Density
Neutron
Microlog

Permanent Datum GL Elevation 4876
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4892
D.F. 4891
G.L. 4876

Date	January 8, 2011		
Run Number	1		
Depth Driller	7729		
Depth Logger	7724		
Bottom Logged Interval	7724		
Top Log Interval	Casing		
Casing Driller	618		
Casing Logger	618		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.4 / 44		
pH / Fluid Loss	8.0 / 9.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.66 @ 72 F		
Rmf @ Meas. Temp	2.73 @ 72 F		
Rmc @ Meas. Temp	4.57 @ 72 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.11 @ 209 F		
Time Circulation Stopped	1000		
Time Logger on Bottom	1815		
Maximum Recorded Temperature	209 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Randy Conley		
Witnessed By	Curt Patterson		

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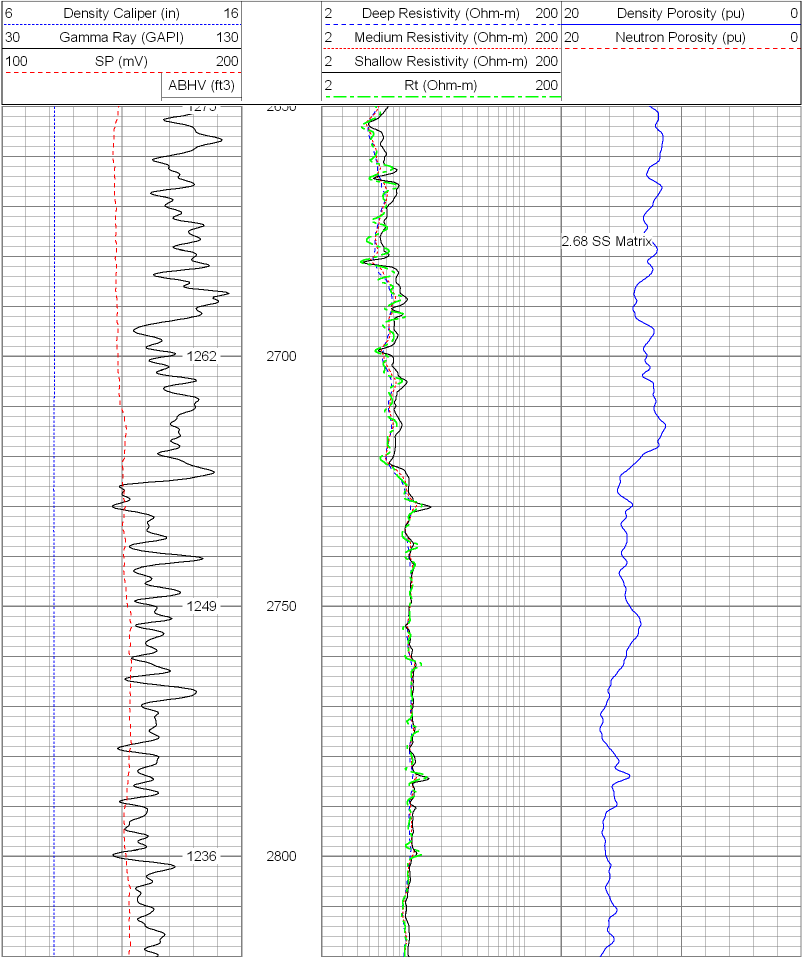
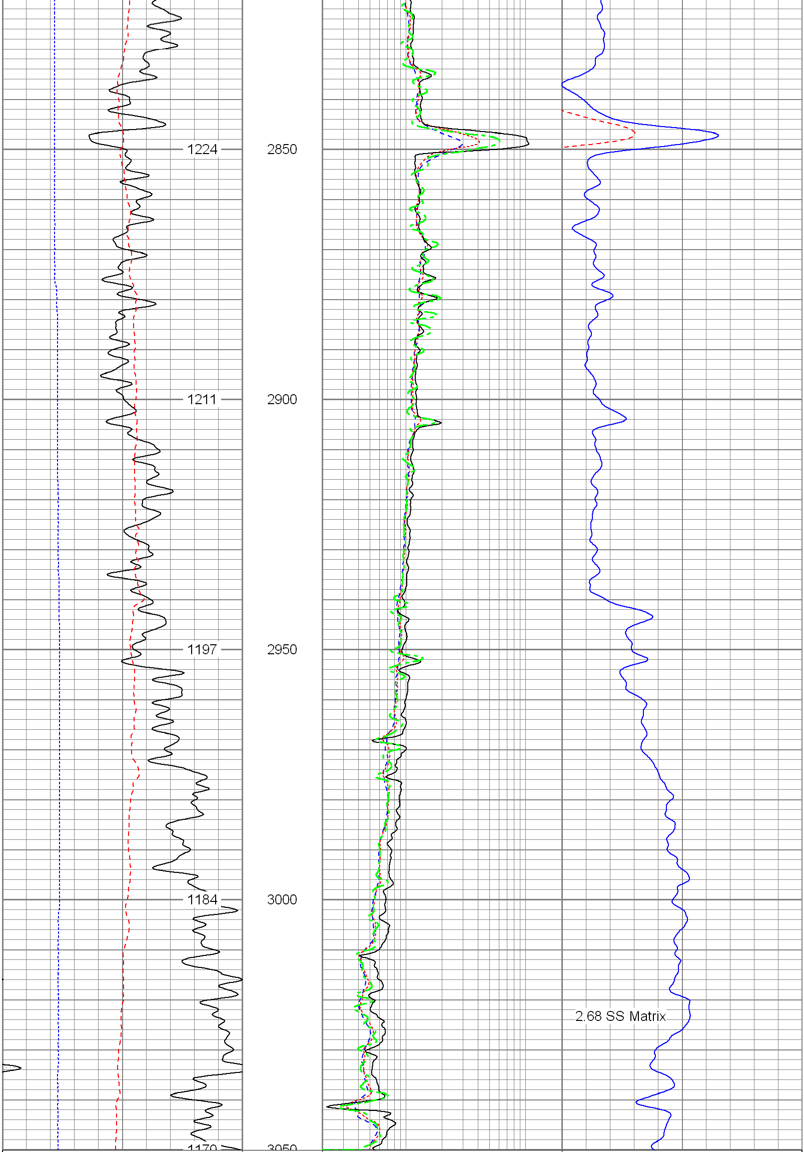
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 55
Thank you for using Phoenix Surveys!!
API #: 05-123-30891-00

Database File: 11379.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Sat Jan 08 18:51:02 2011
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
100 SP (mV) 200	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)	2 Rt (Ohm-m) 200	

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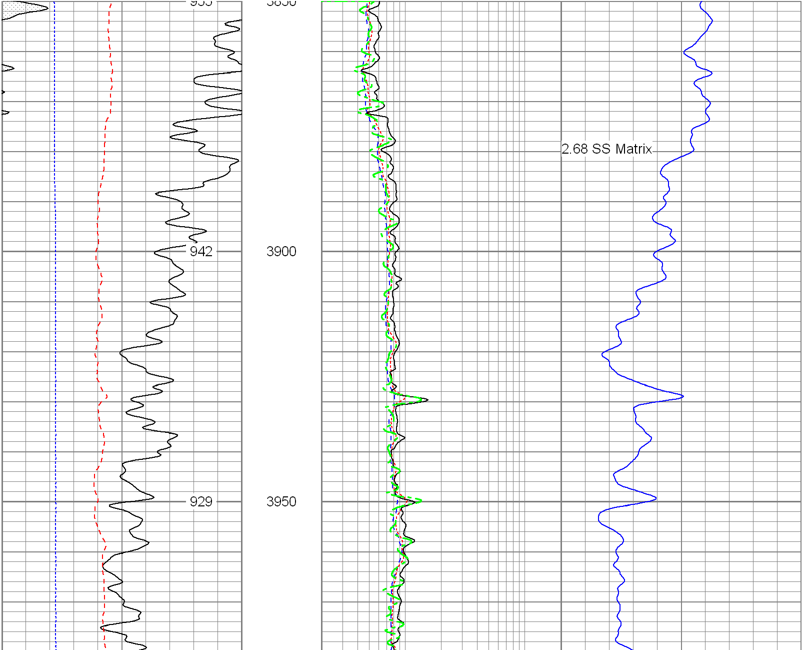

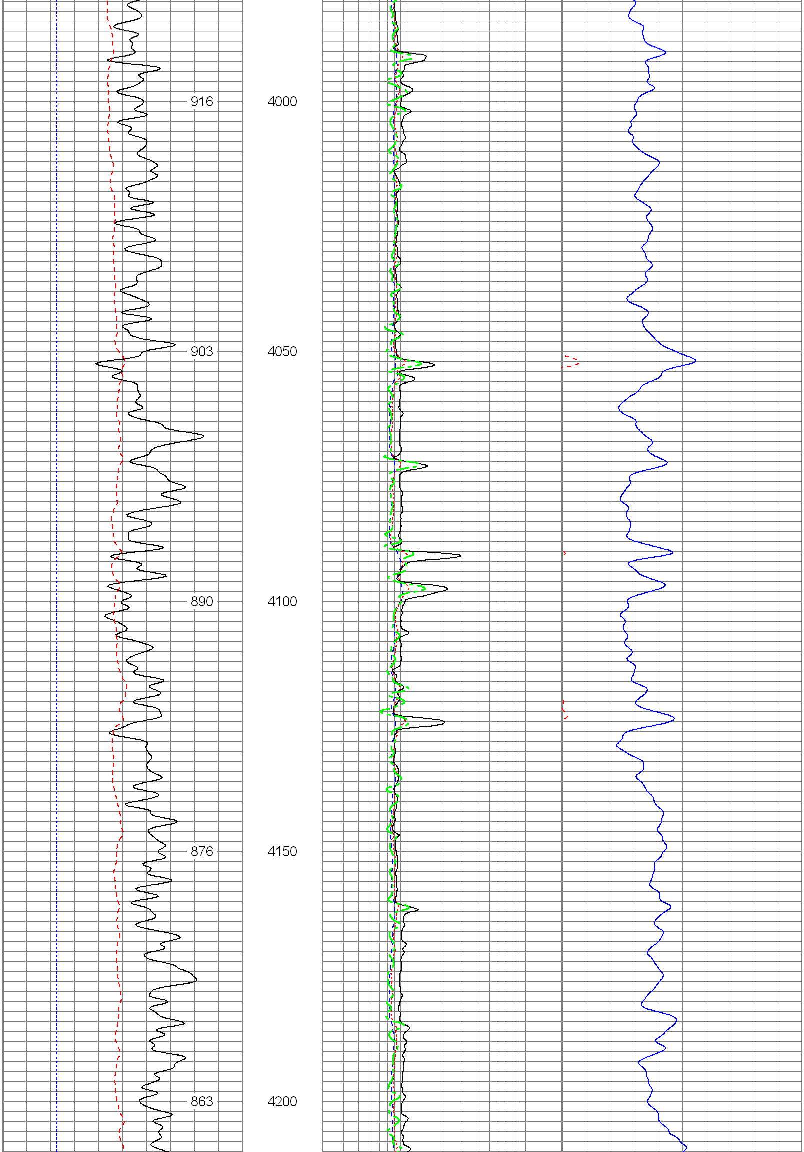

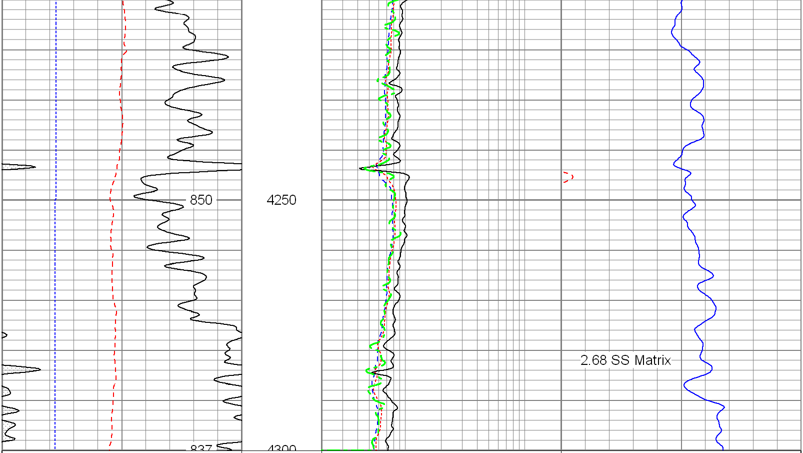

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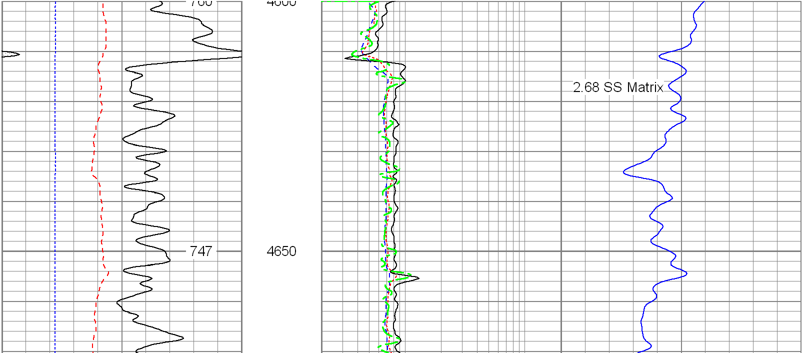

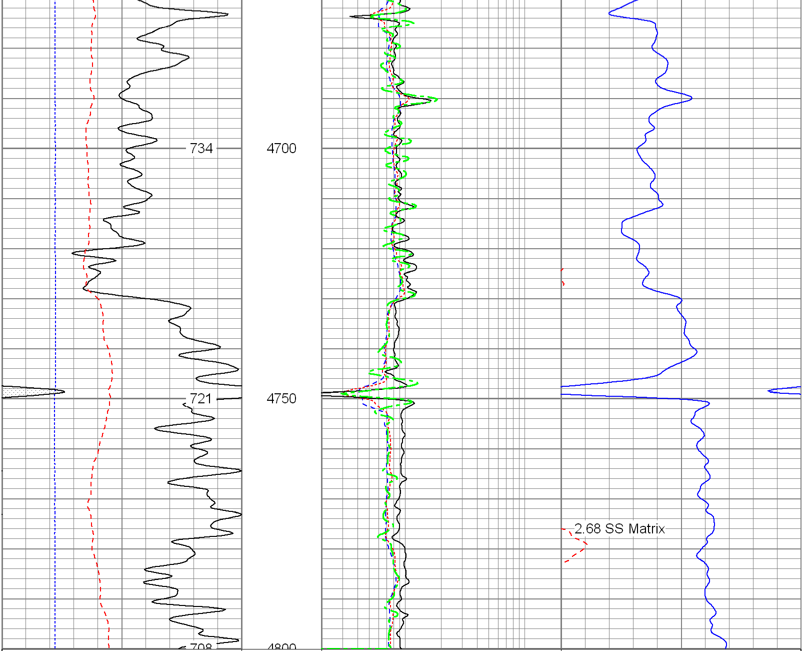

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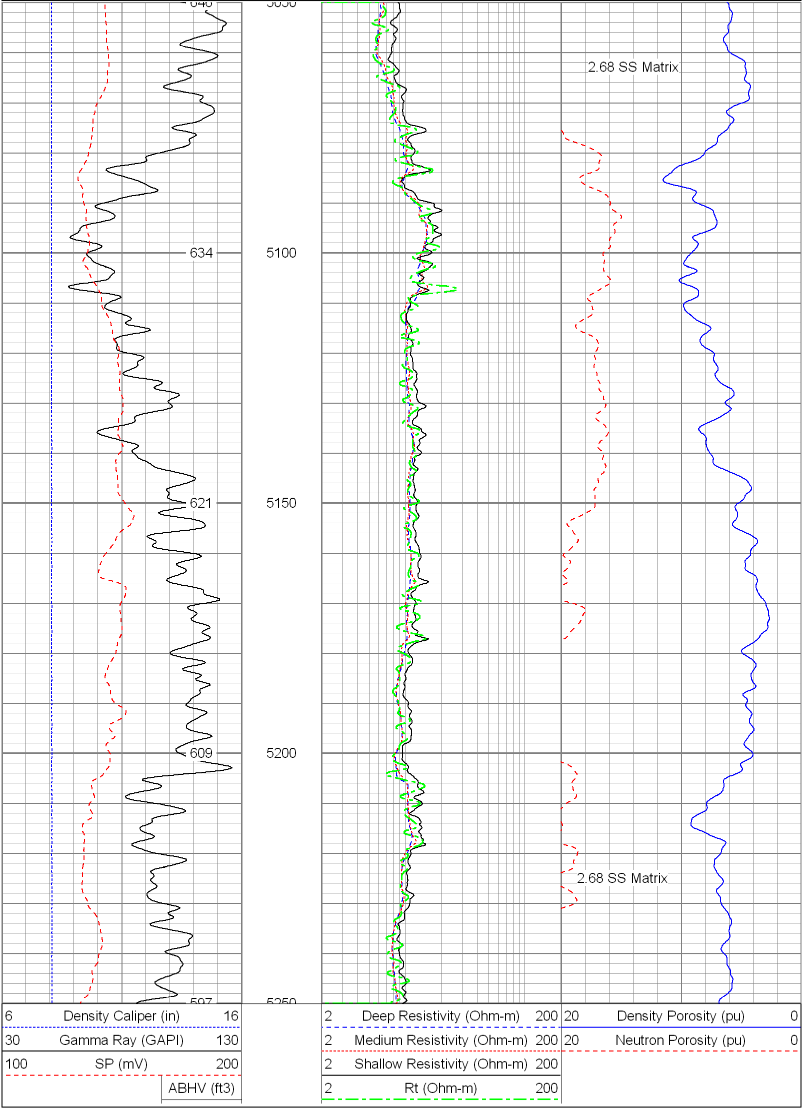

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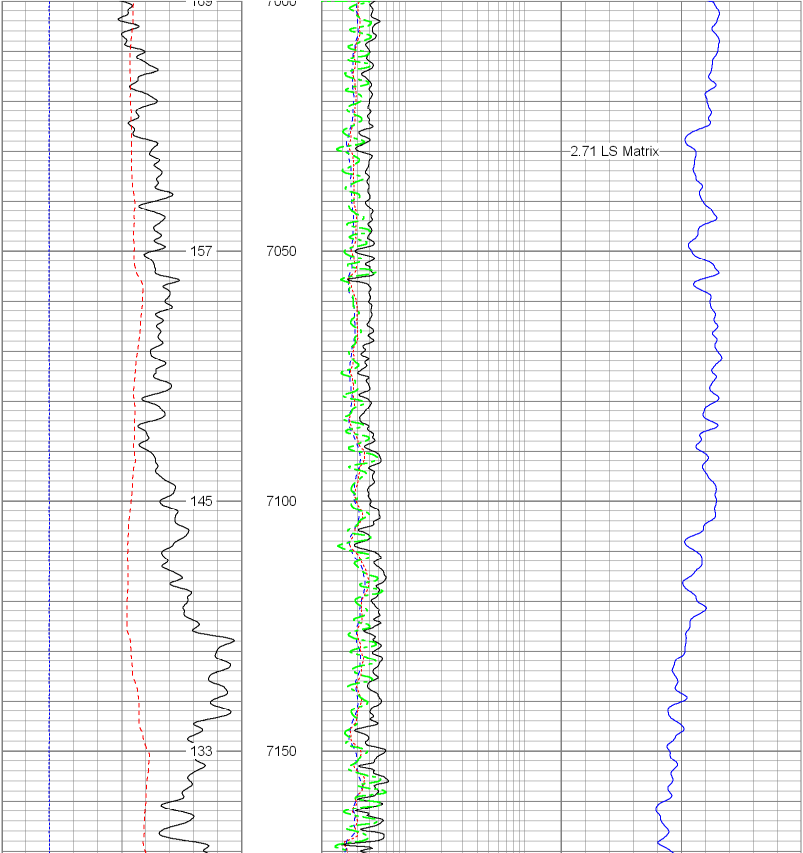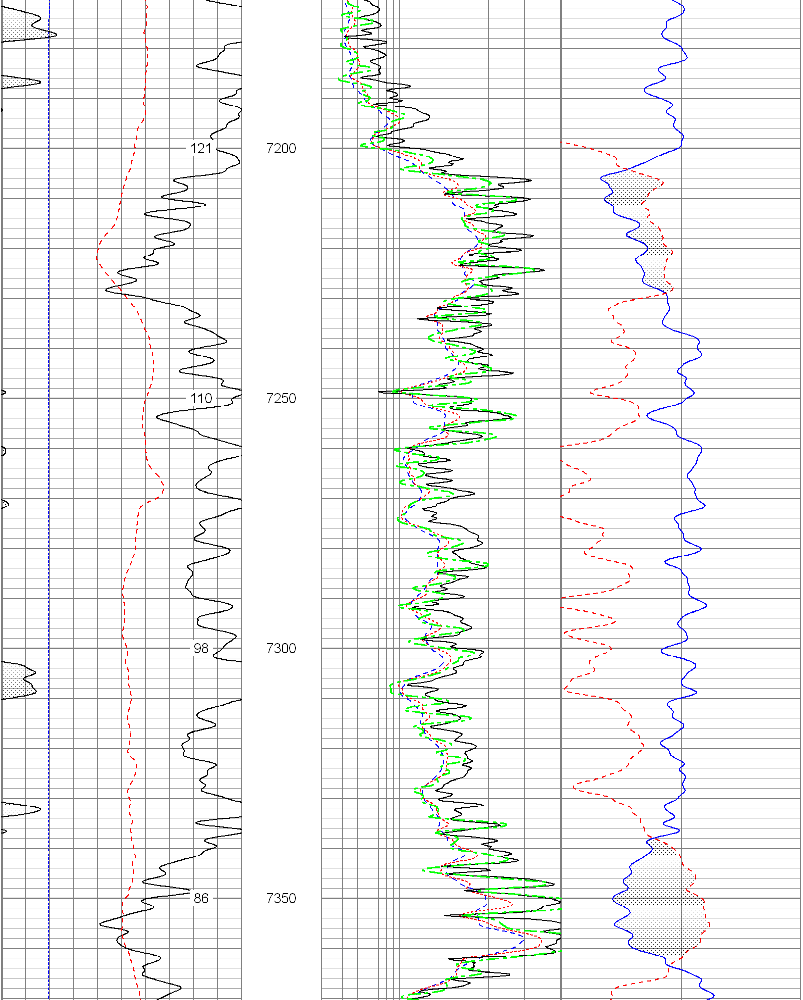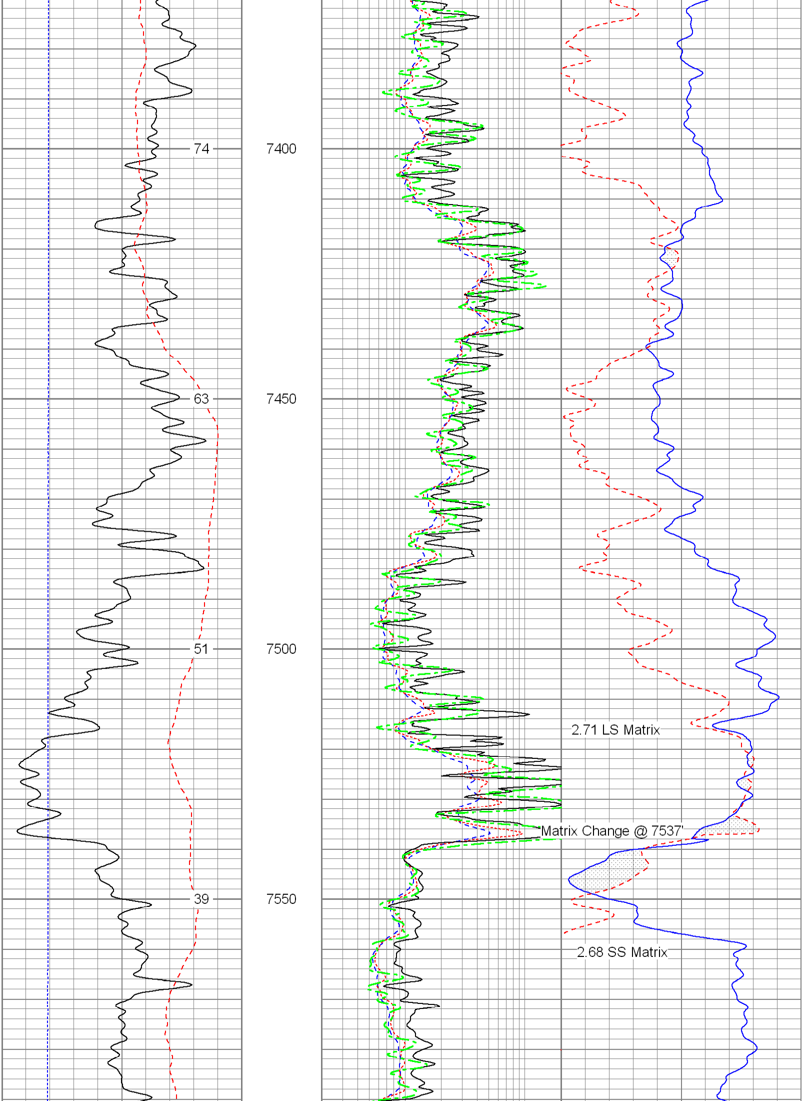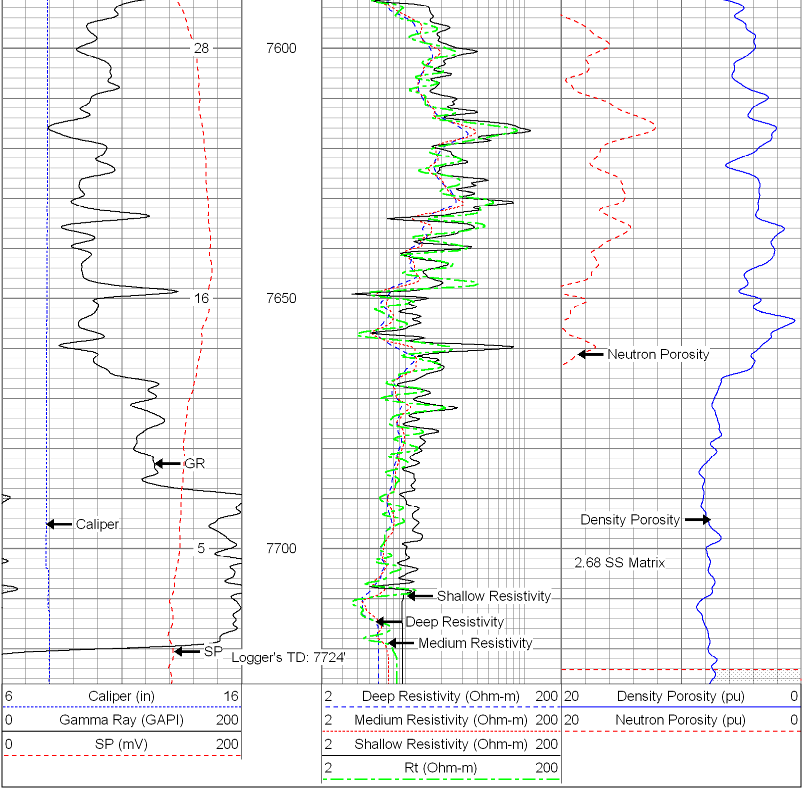Left scale	Curve	Right scale
6	Caliper (in)	16
0	Gamma Ray (GAPI)	200
0	SP (mV)	200
2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200
2	Rt (Ohm-m)	200
20	Density Porosity (pu)	0
20	Neutron Porosity (pu)	0