PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG
HIGH RESOLUTION INDUCTION

Company
Well
Field
County
State/Prv

Company	Noble Energy Inc.
Well	STROHAUER PC G04-30D
Field	Wattenberg
County	Weld
State/Province	Colorado

Location
SHL 546' FNL & 694' FEL NENE
BHL 85' FNL & 61' FEL NENE
Sec. 5, Twp. 4N, Rge. 65W

Other Services
none

Elevation
K.B. 4688
D.F. 4688
G.L. 4675

Permanent Datum	GL	Elevation	4675
Log Measured From	KB		
Drilling Measured From	KB		

Date	February 10, 2012		
Run Number	1		
Depth Driller	7336		
Depth Logger	7333		
Bottom Logged Interval	7313		
Top Log Interval	Casing		
Casing Driller	714		
Casing Logger	714		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.6 / 37		
pH / Fluid Loss	9.0 / 14.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.64 @ 62 F		
Rmf @ Meas. Temp	2.91 @ 62 F		
Rmc @ Meas. Temp	4.37 @ 62 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.08 @ 208 F		
Time Circulation Stopped	0445		
Time Logger on Bottom	1215		
Maximum Recorded Temperature	208 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Kelly Keever		
Witnessed By	Bob Frank		

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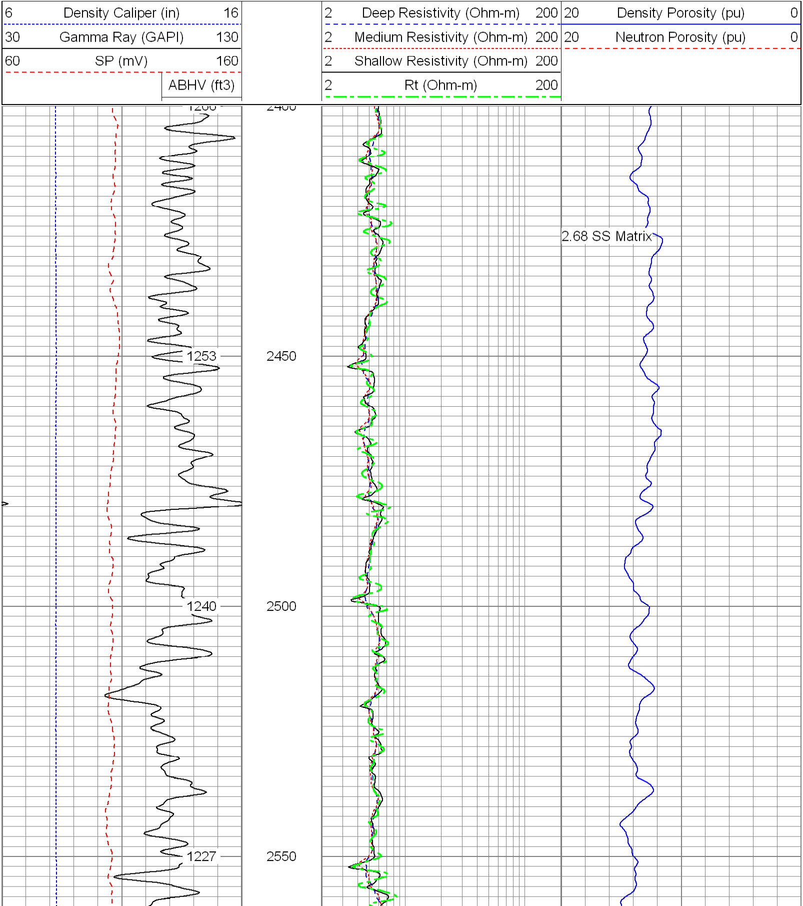
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

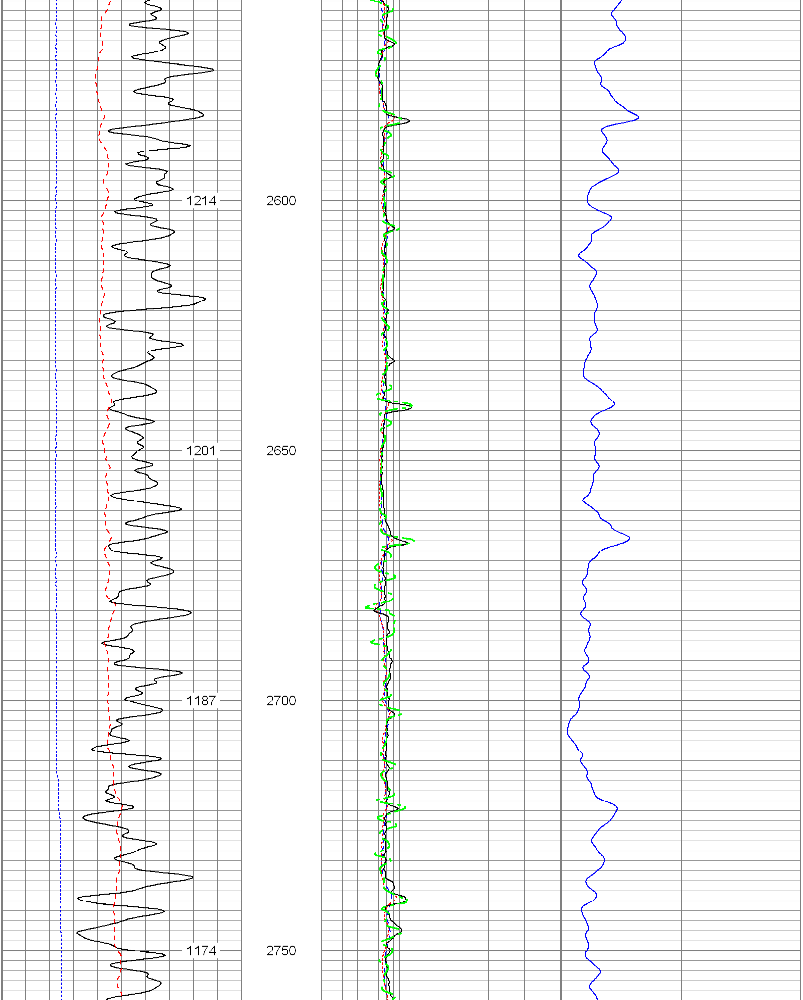
Comments

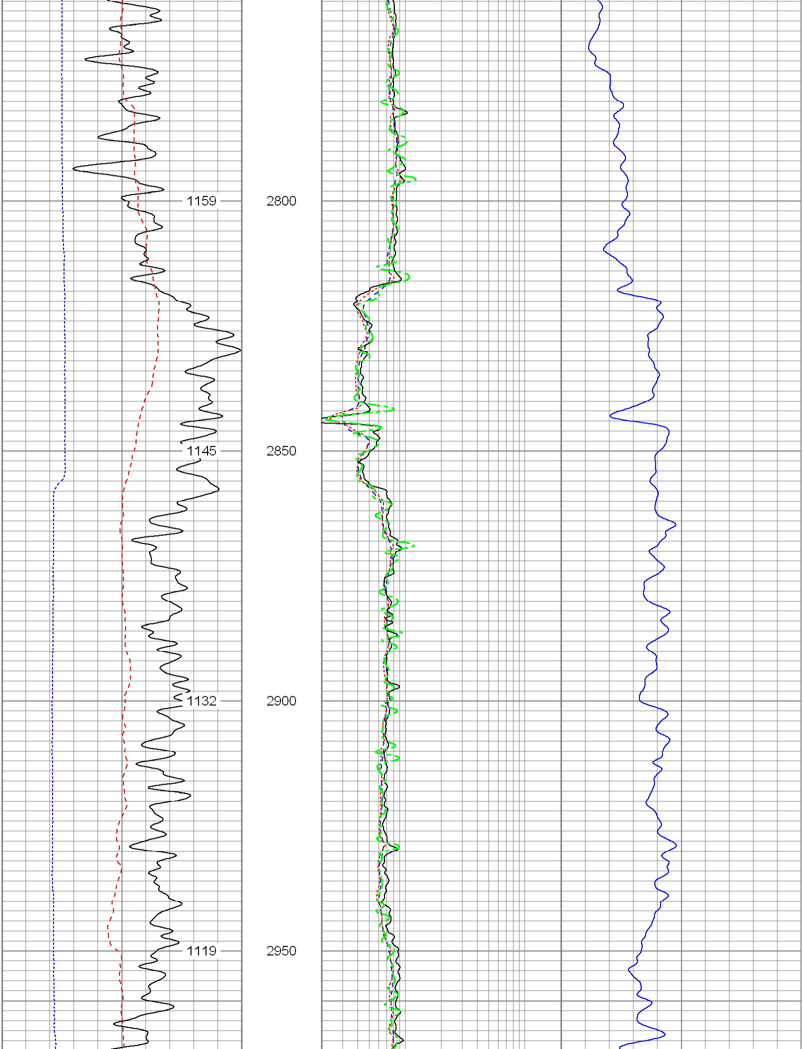
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 126
Thank you for using Phoenix Surveys!!
API #: 05-123-34740

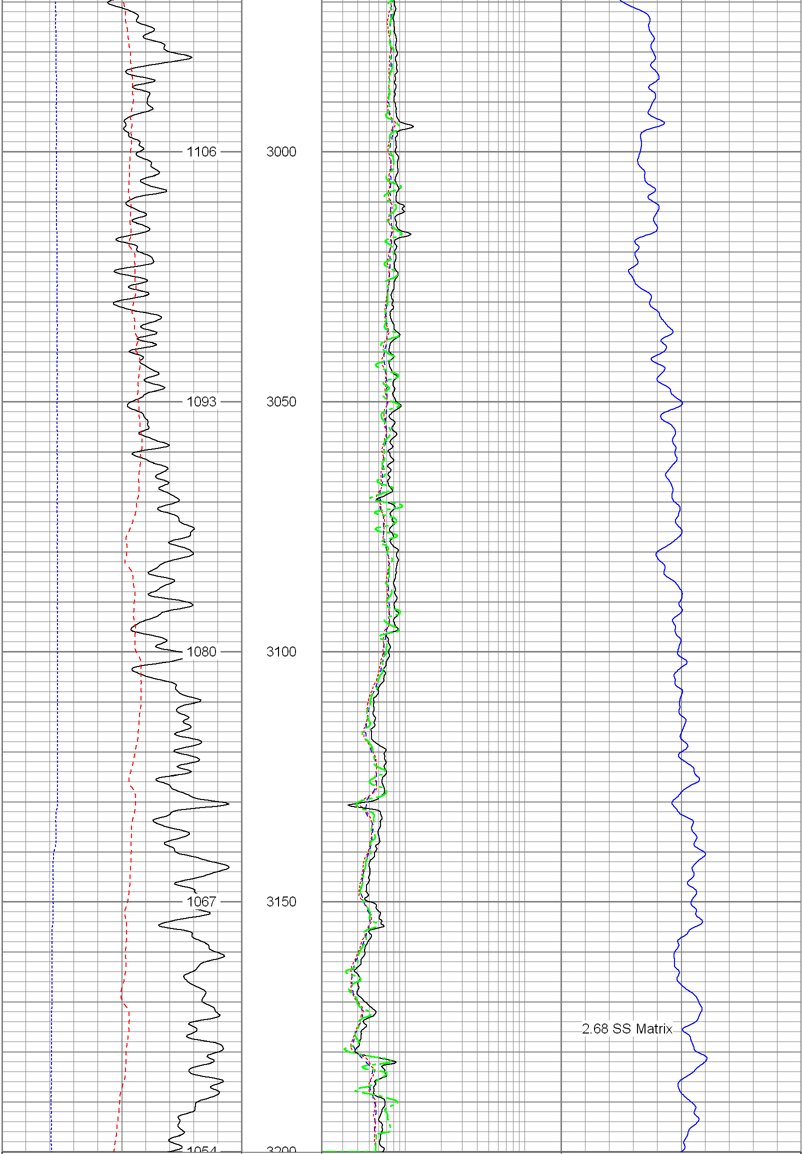
No repeat due to hole conditions!!

Database File: 12589.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Fri Feb 10 13:35:21 2012
Charted by: Depth in Feet scaled 1:240









6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
60 SP (mV) 160
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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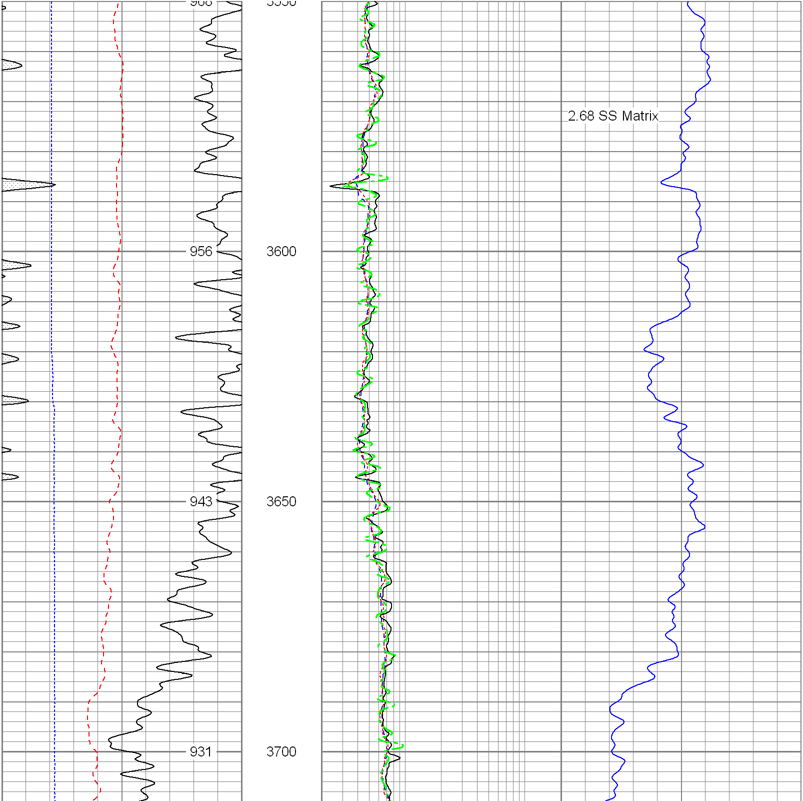

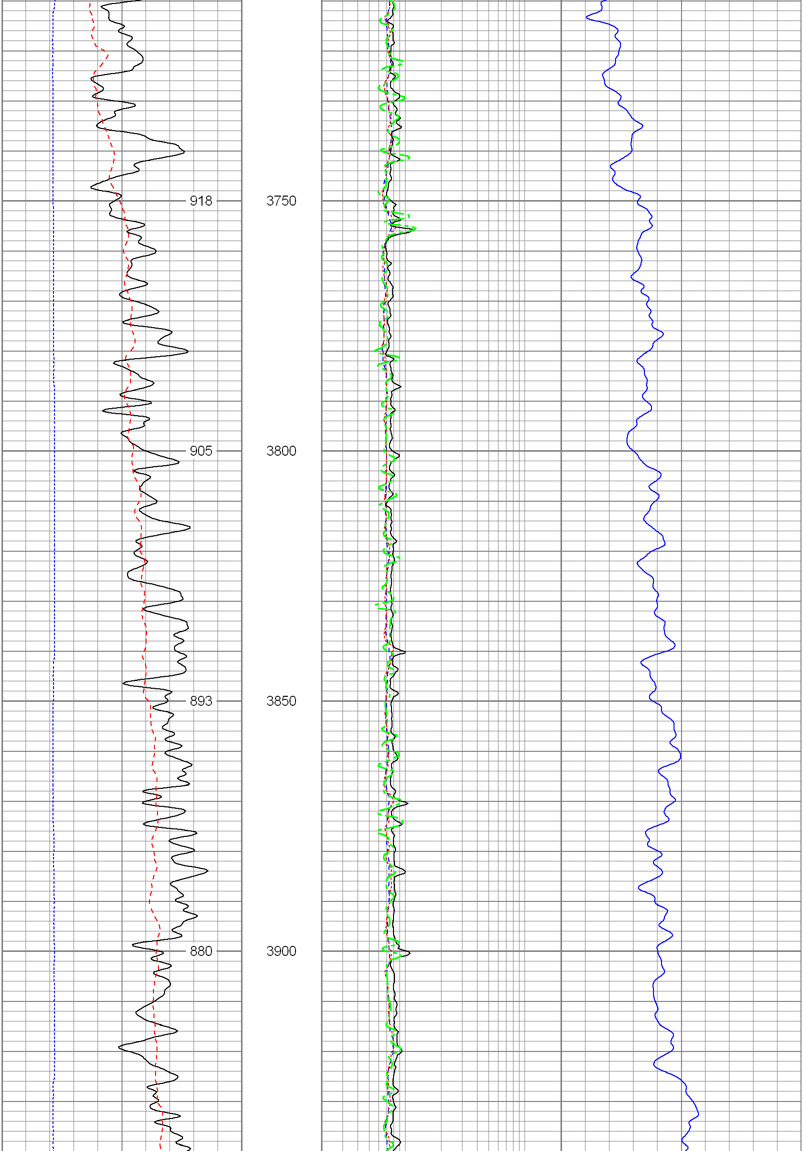

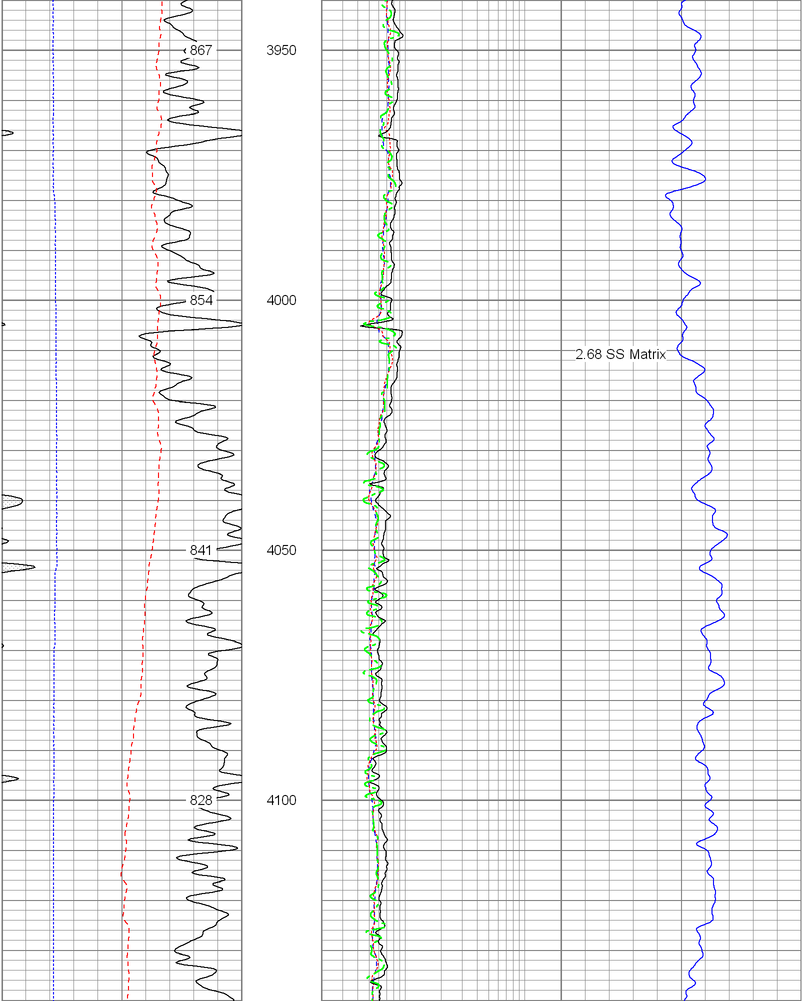

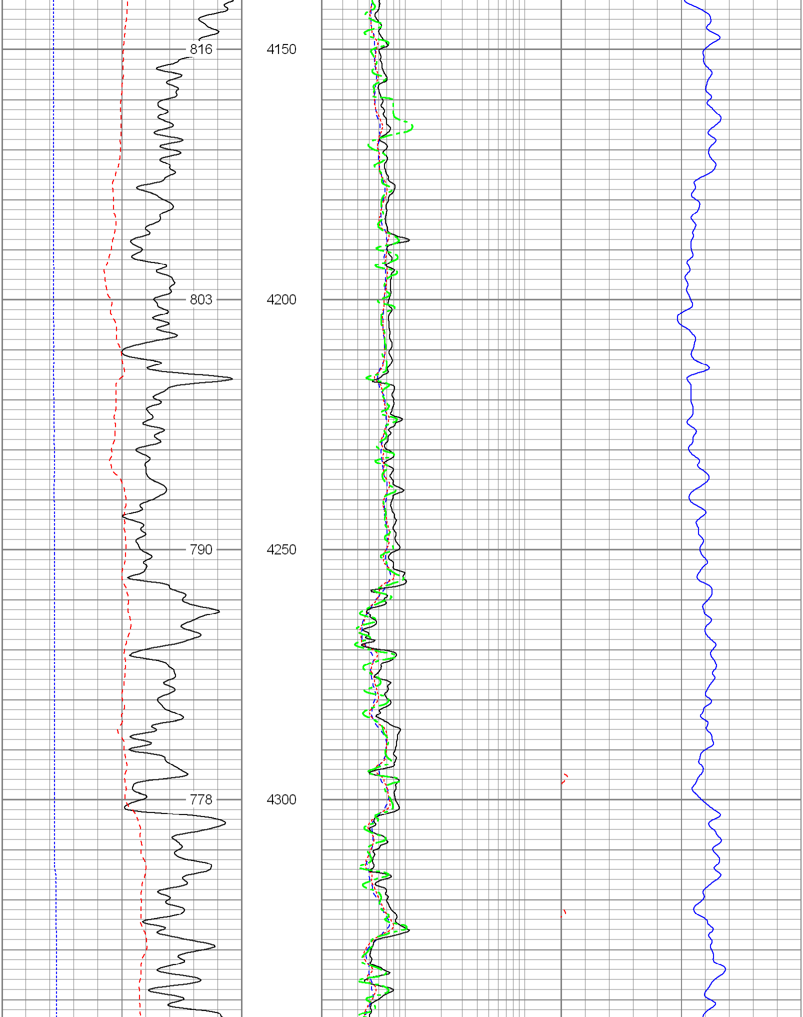

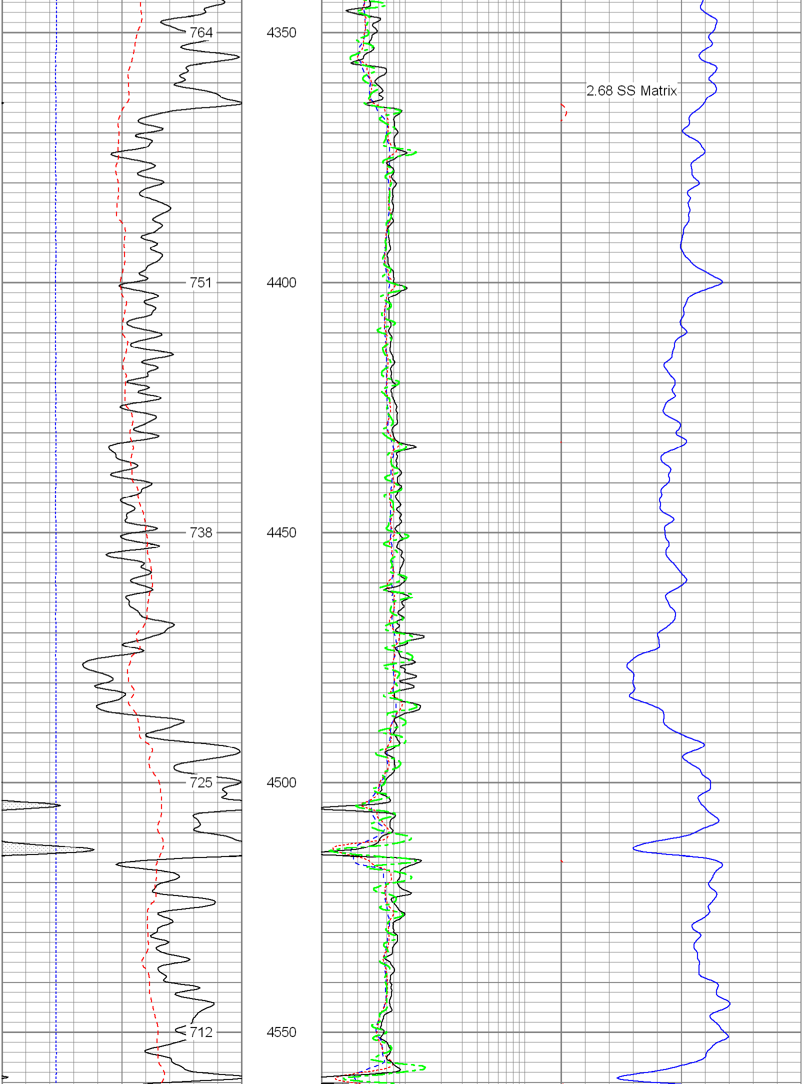

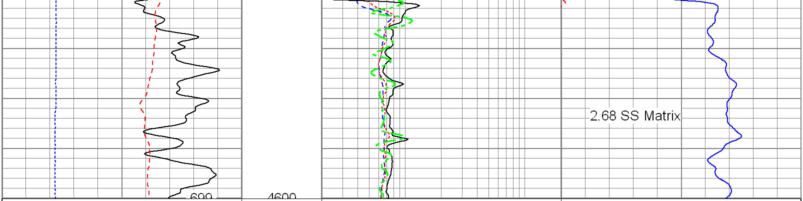

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30 Gamma Ray (GAPI) 130	2 Medium Resistivity (Ohm-m) 200	20 Neutron Porosity (pu) 0
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ABHV (ft3)	2 Rt (Ohm-m) 200	

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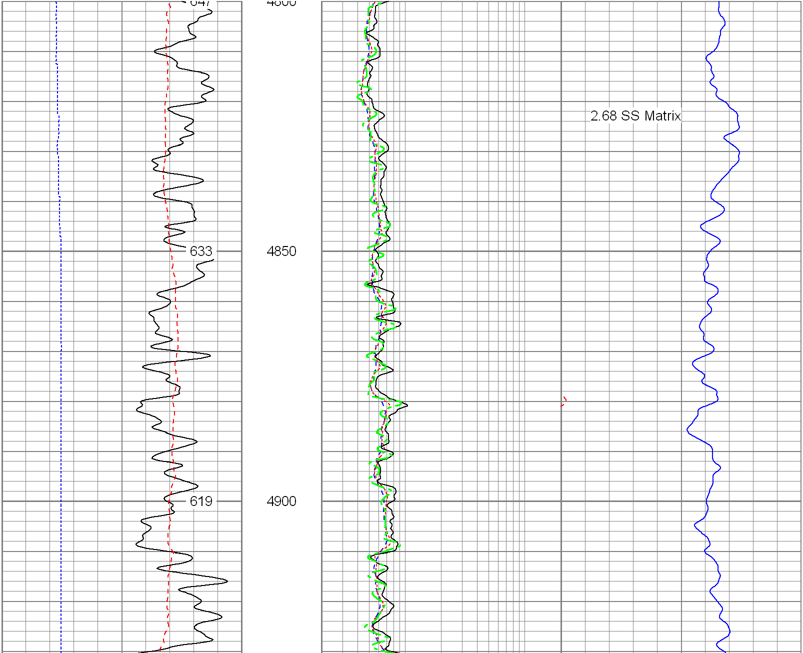

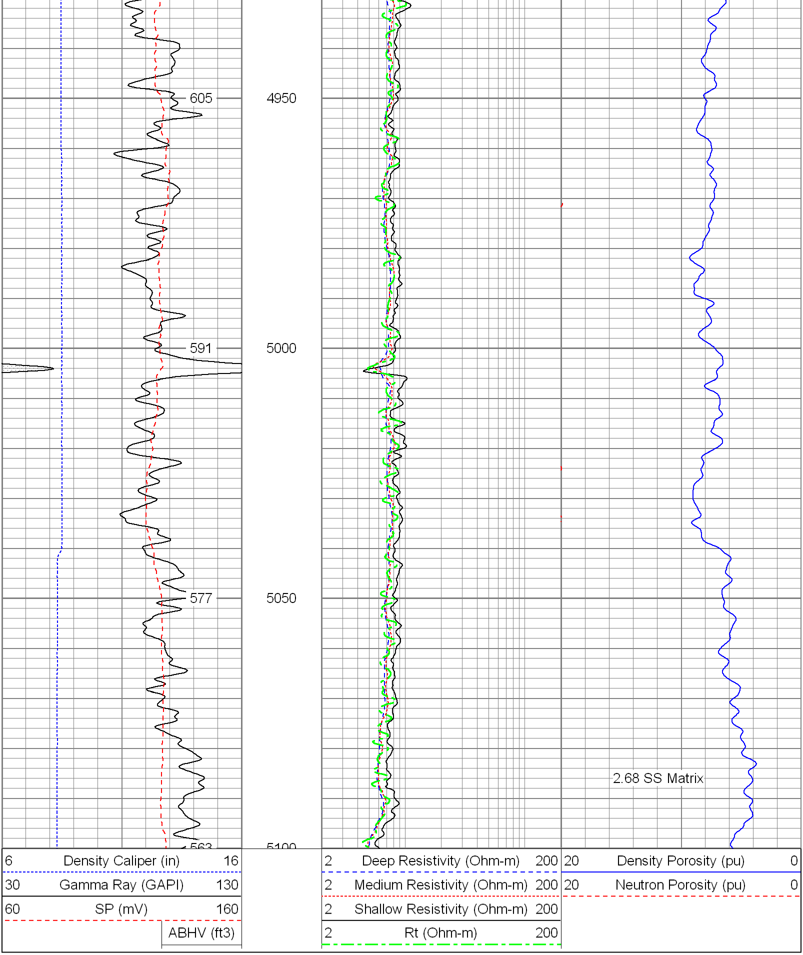

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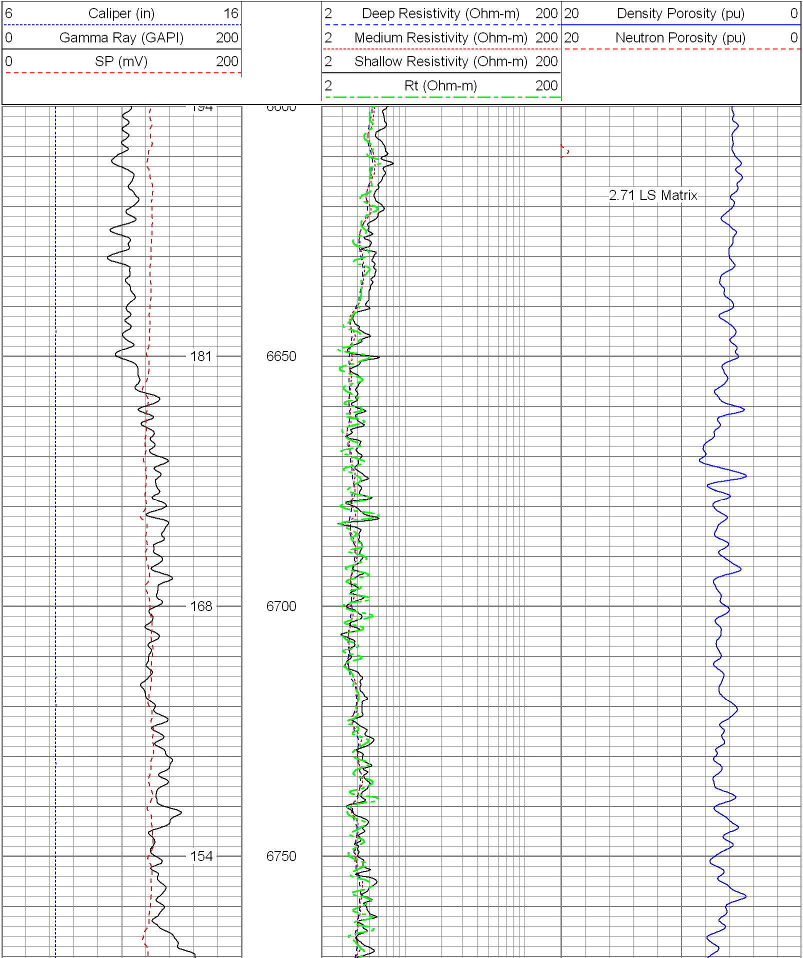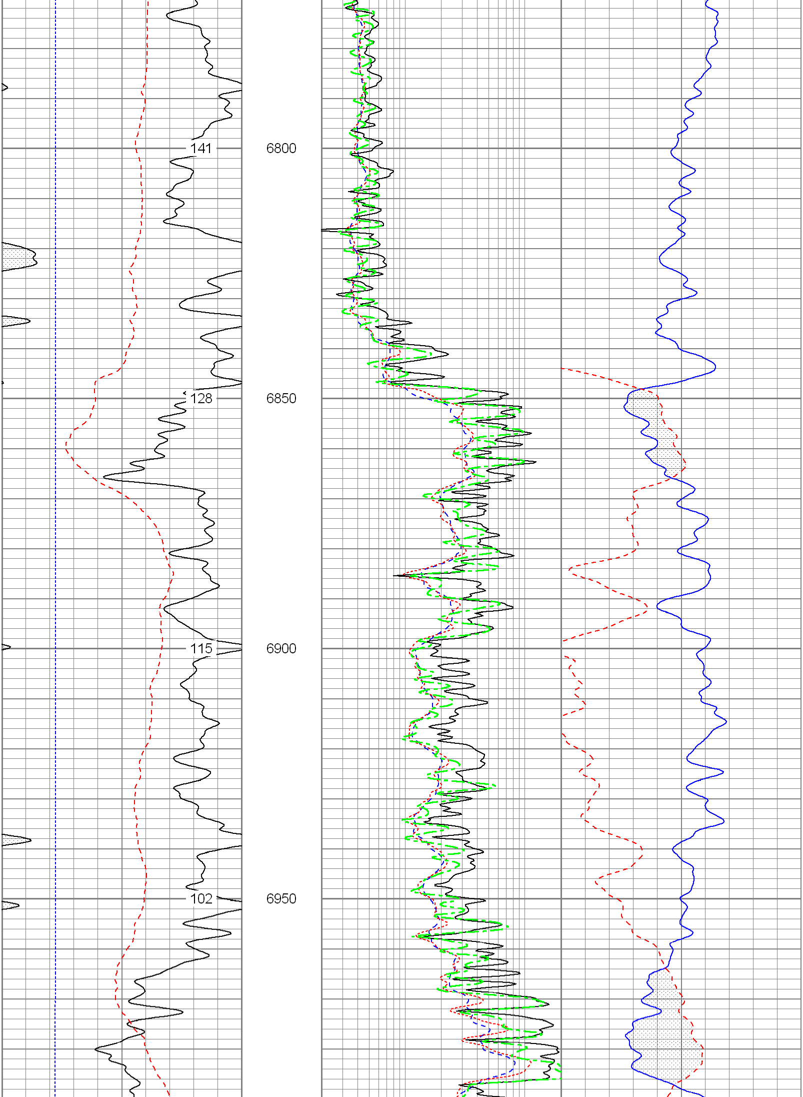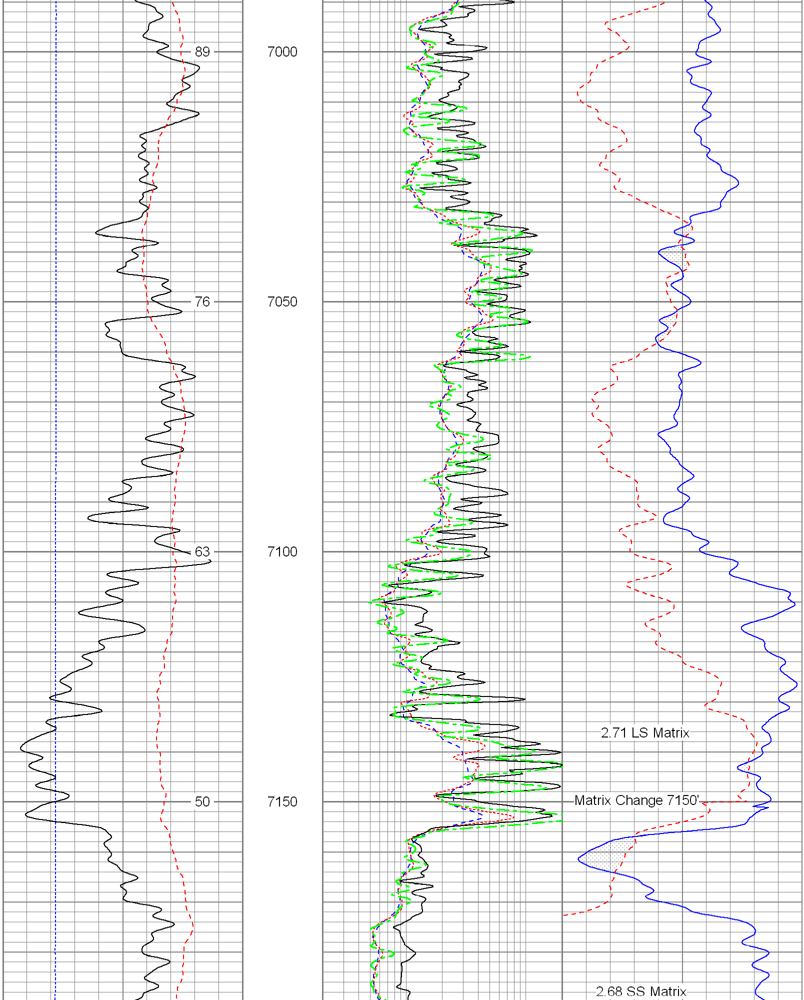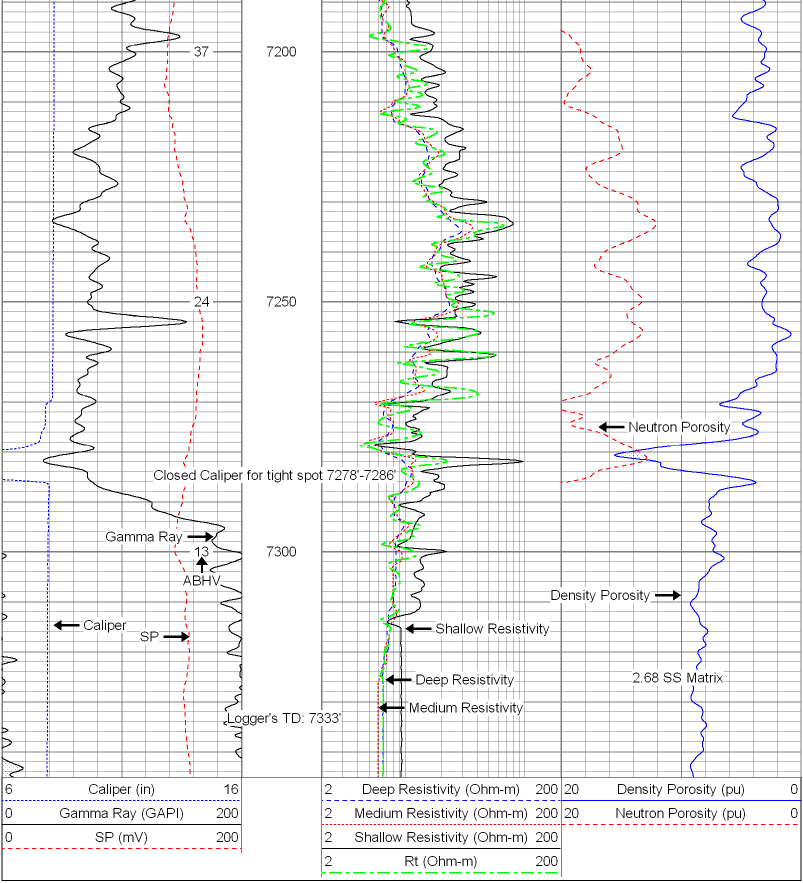
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0 Gamma Ray (GAPI) 200
0 SP (mV) 200
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
2.71 LS Matrix
181
6650
168
6700
154
6750