PSI
PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION

Company
Well
Field
County
State/Prv

Company **Noble Energy Inc.**
Well **Peppler PC AA 17-20**
Field **Wattenberg**
County **Weld** State/Province **Colorado**

Location
2465' FSL & 1410' FWL
NE SW
Sec. 17, Twp. 6N, Rge. 63W

Other Services
Density
Neutron
Micrmuch

Elevation
K.B. 4685
D.F. 4684
G.L. 4671

Permanent Datum	GL	Elevation	4671
Log Measured From	KB		
Drilling Measured From	KB		

Date	January 29, 2011		
Run Number	1		
Depth Driller	7040		
Depth Logger	7040		
Bottom Logged Interval	7040		
Top Log Interval	Casing		
Casing Driller	577		
Casing Logger	577		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	8.5 / 32		
pH / Fluid Loss	8.0 / nc		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.05 @ 62 F		
Rmf @ Meas. Temp	1.64 @ 62 F		
Rmc @ Meas. Temp	2.46 @ 62 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.05 @ 201 F		
Time Circulation Stopped	1230		
Time Logger on Bottom	1950		
Maximum Recorded Temperature	201 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Steve Biggs		

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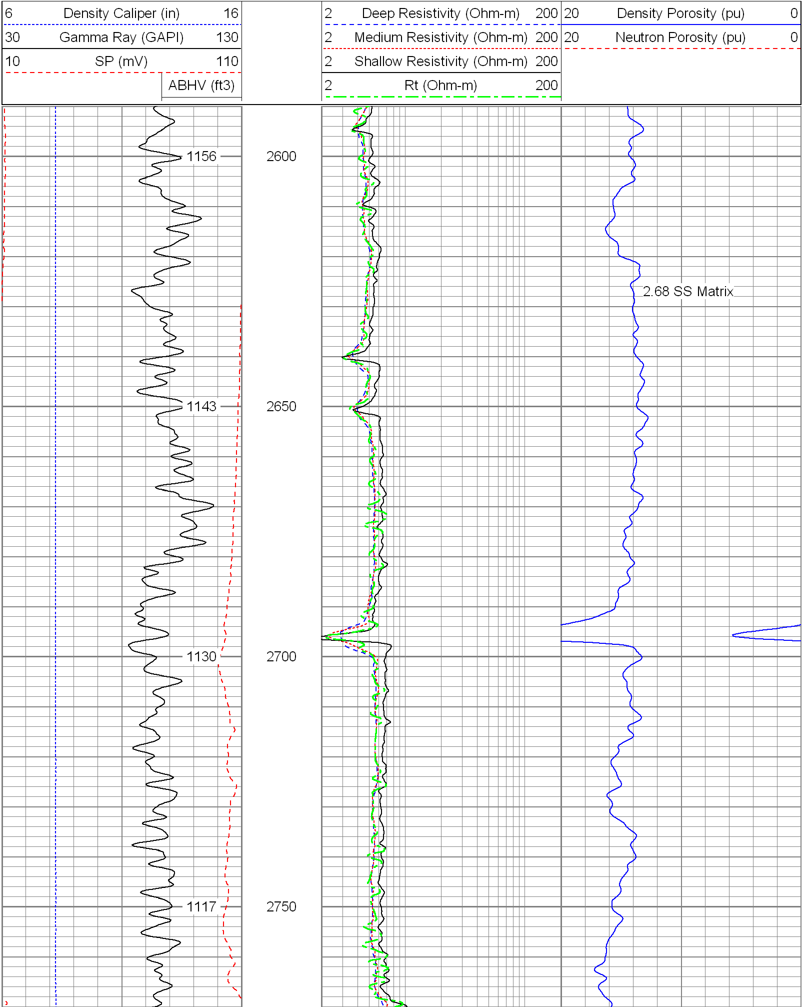
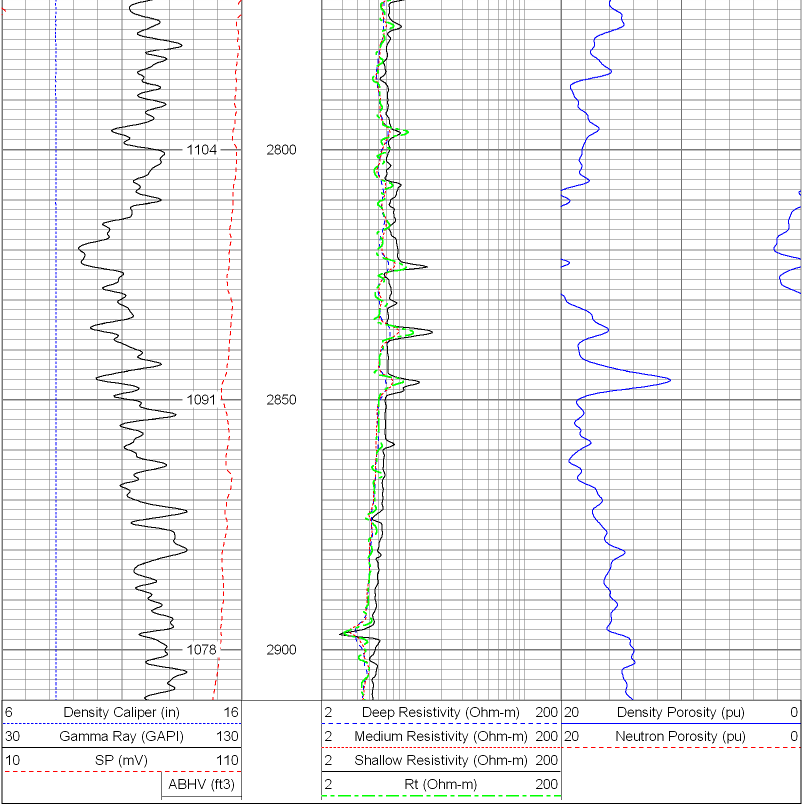
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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
Cade Rig 22
Thank you for using Phoenix Surveys!!
API #: 05-123-32266-00

Database File:	11414.db
Dataset Pathname:	final
Presentation Format:	pdc1
Dataset Creation:	Sat Jan 29 20:39:49 2011
Charted by:	Depth in Feet scaled 1:240





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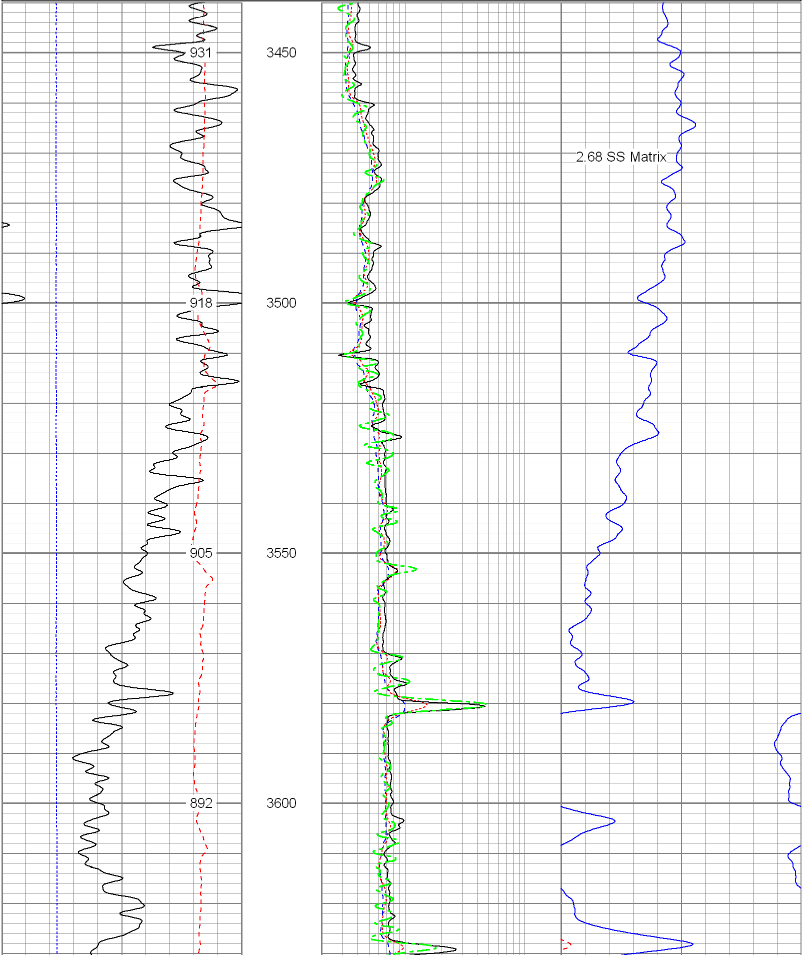
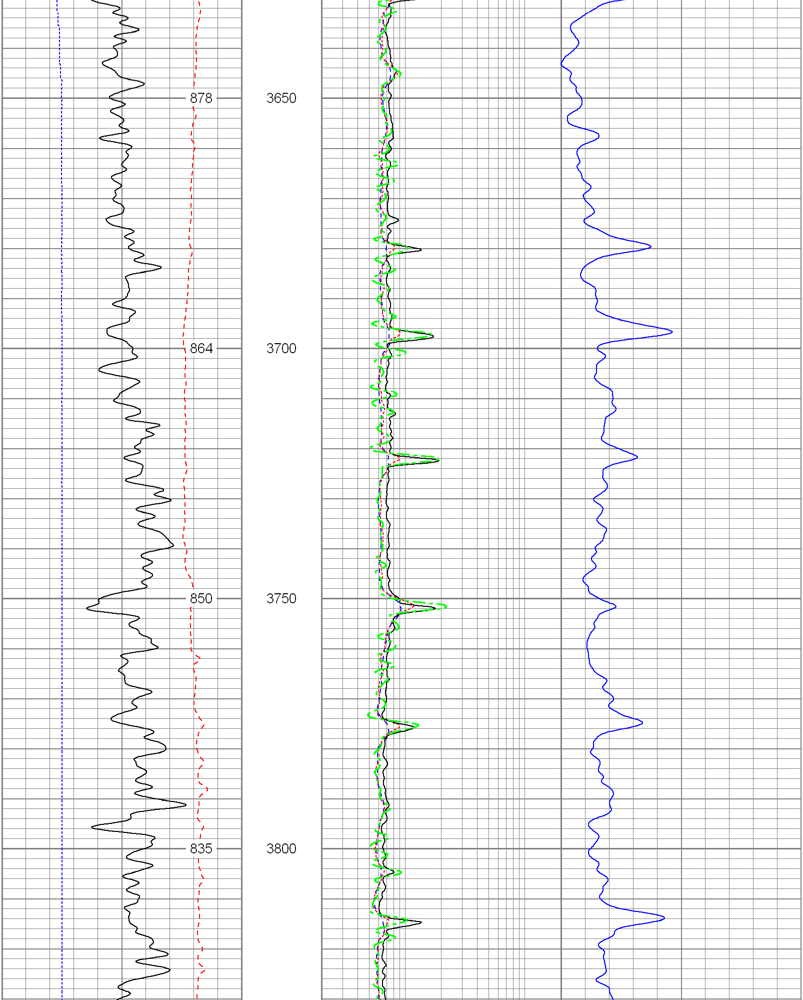
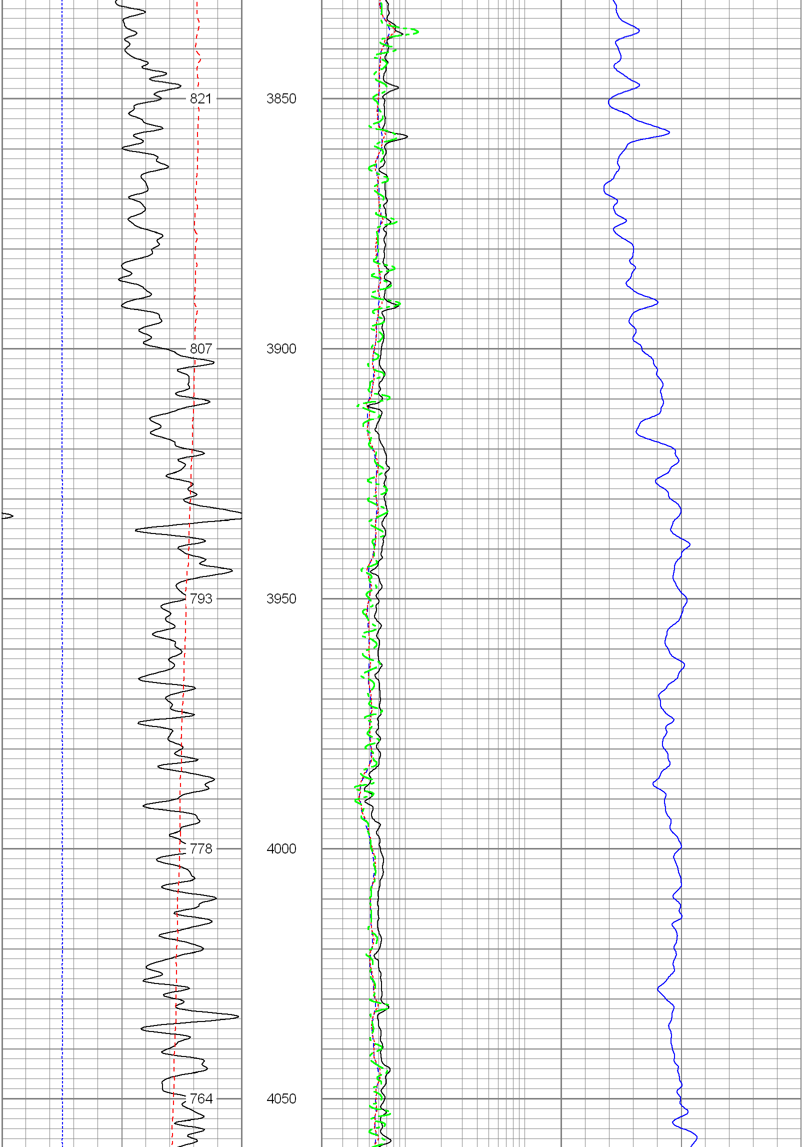
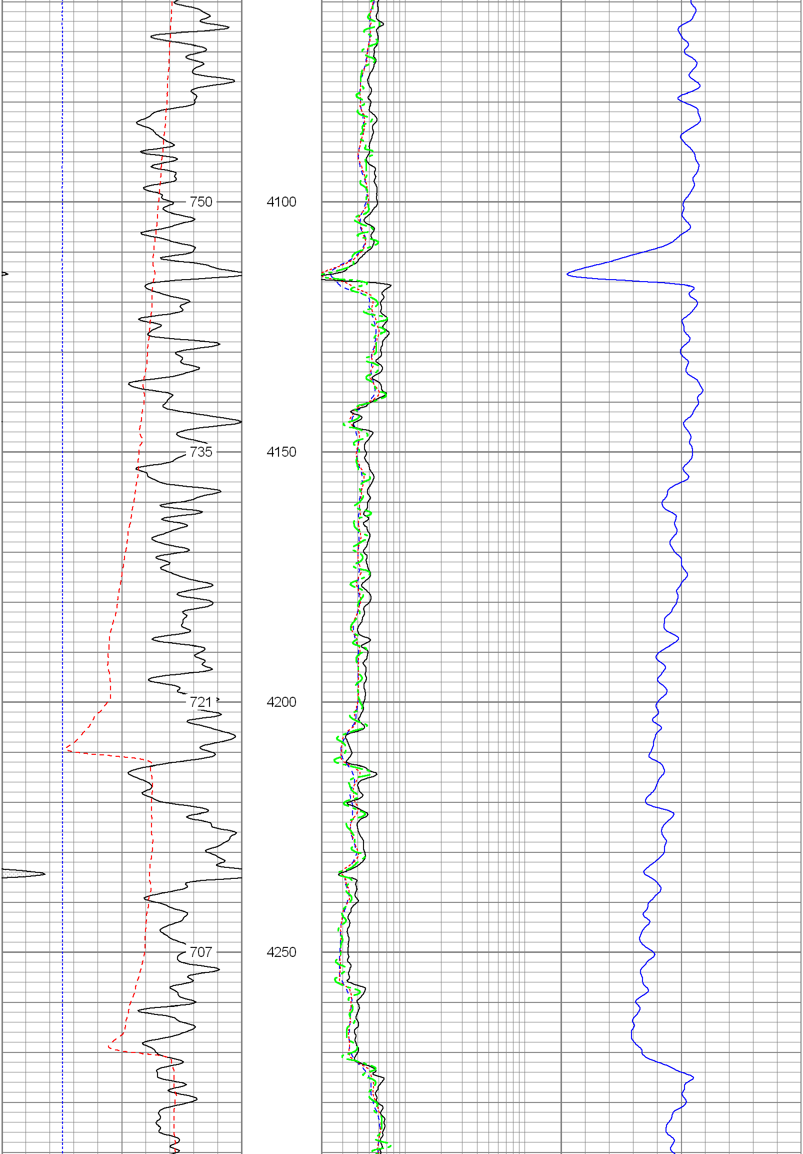
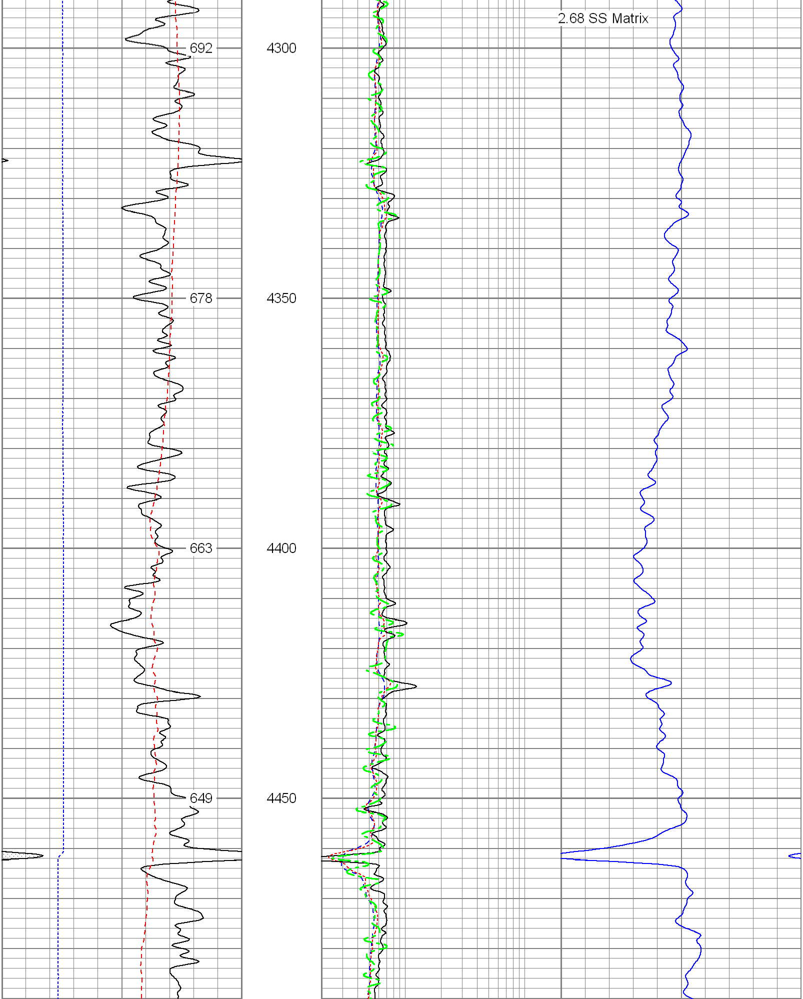
6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
10 SP (mV) 110
ABHV (ft3)
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

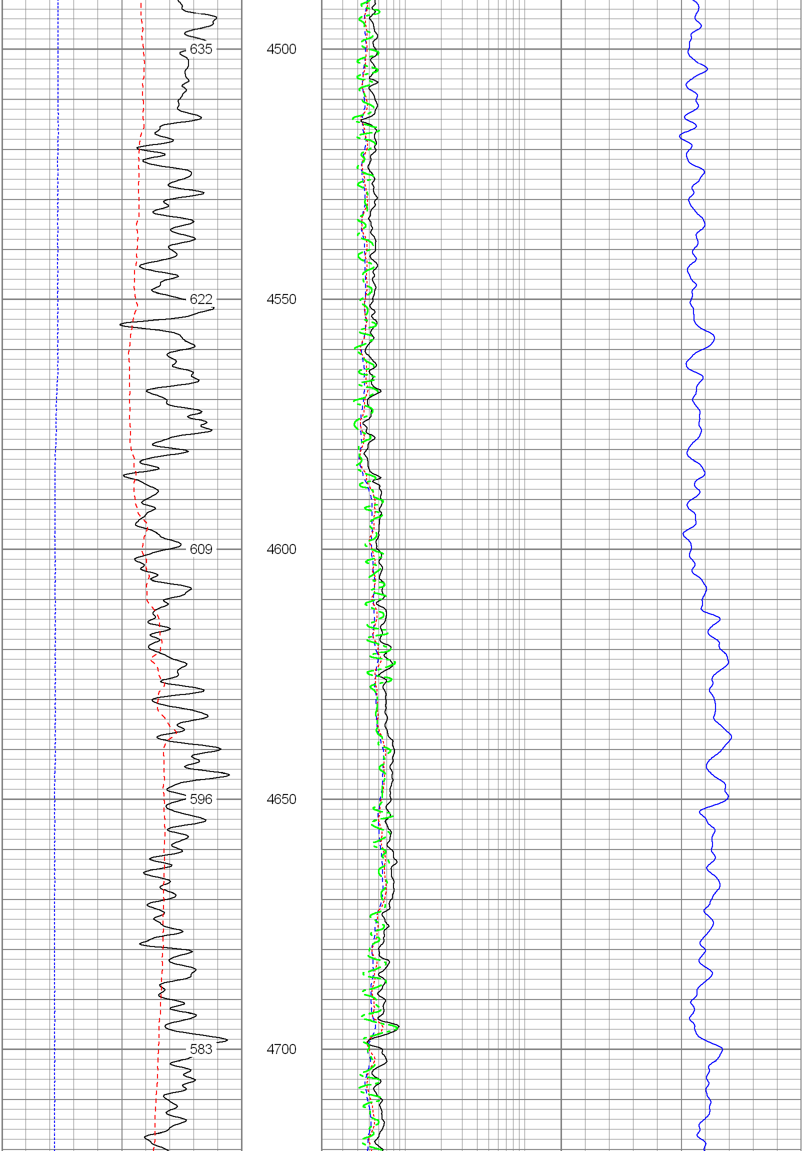


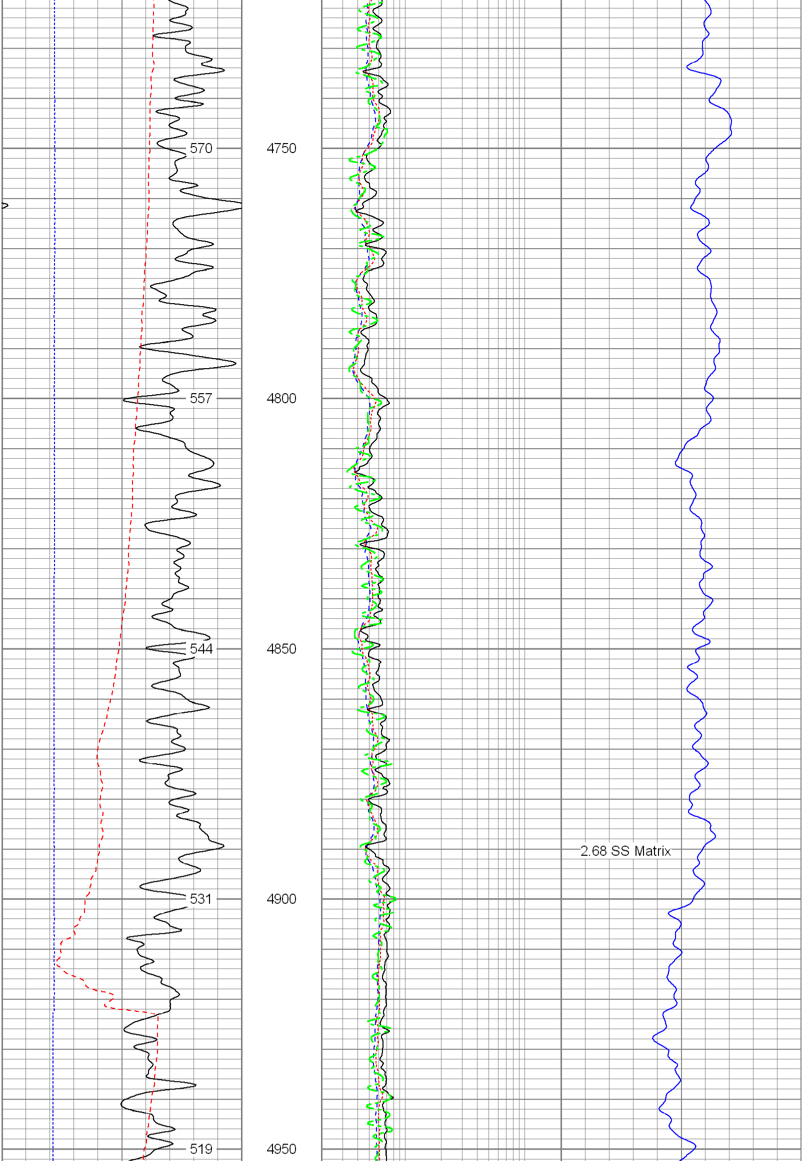


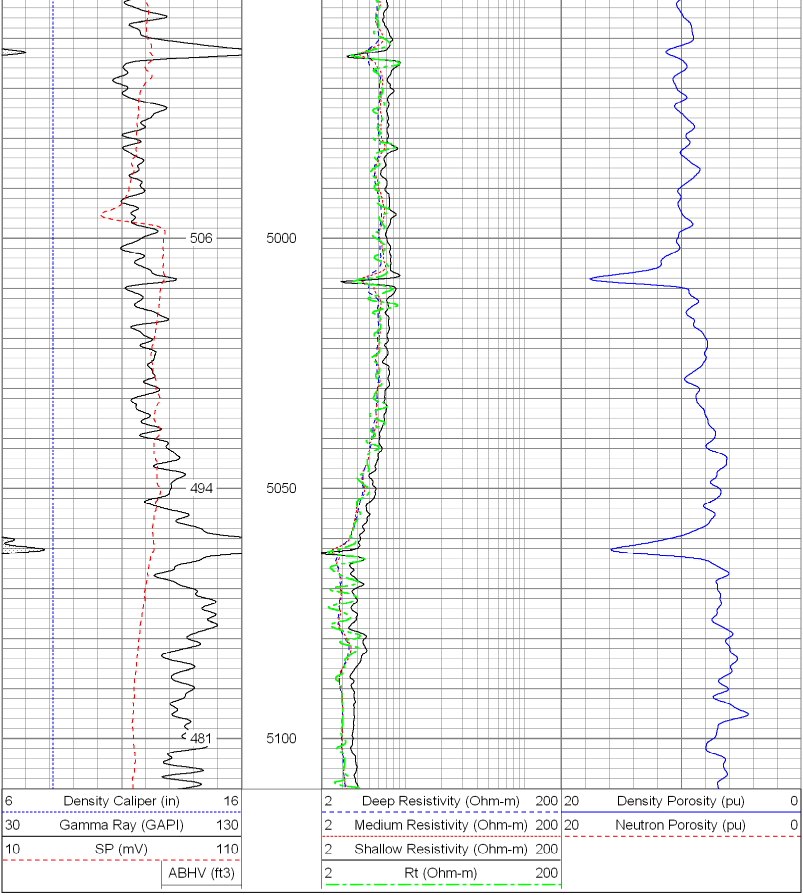












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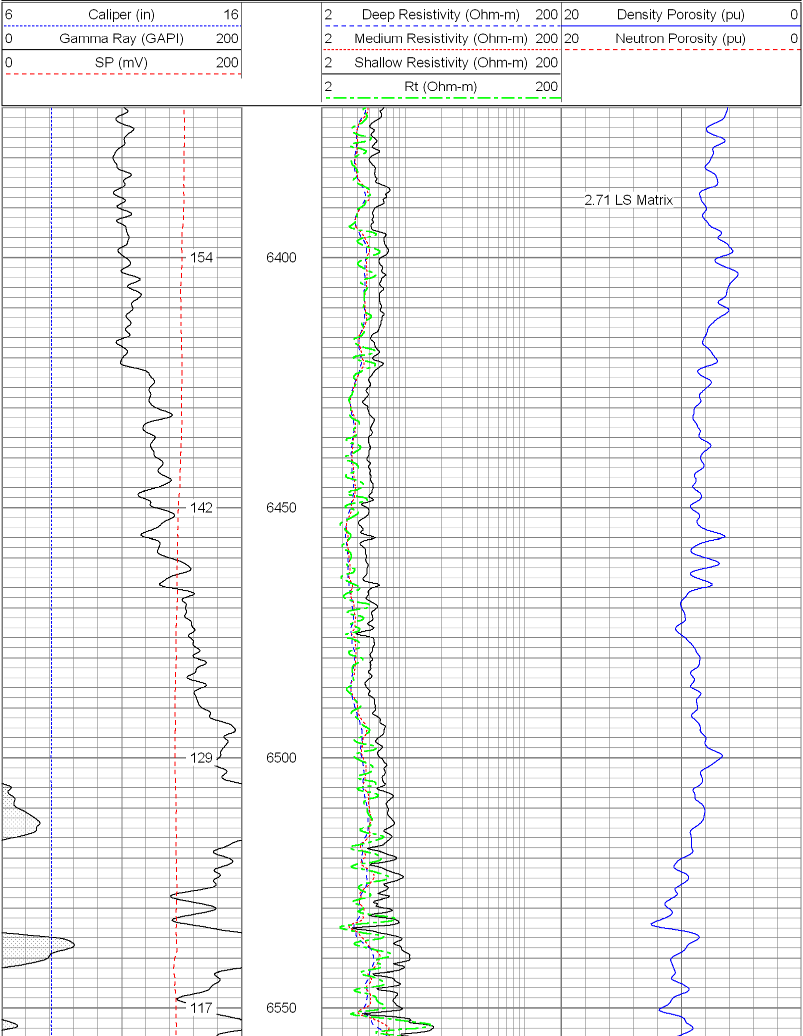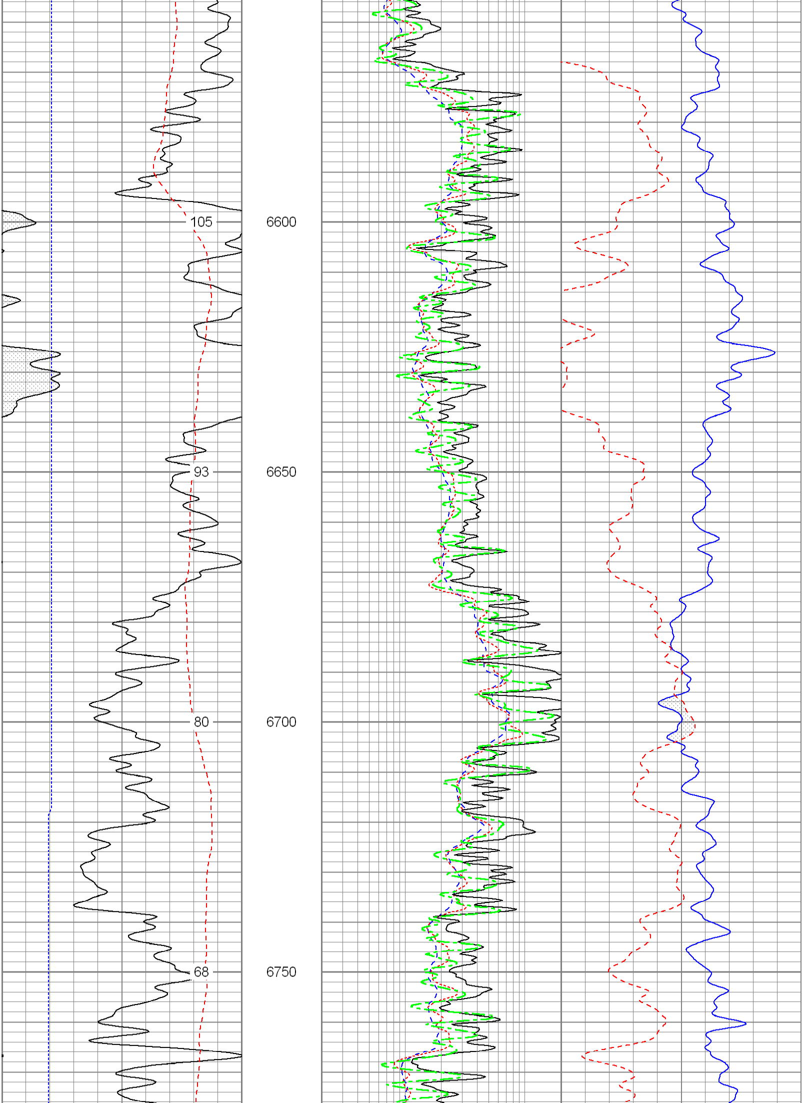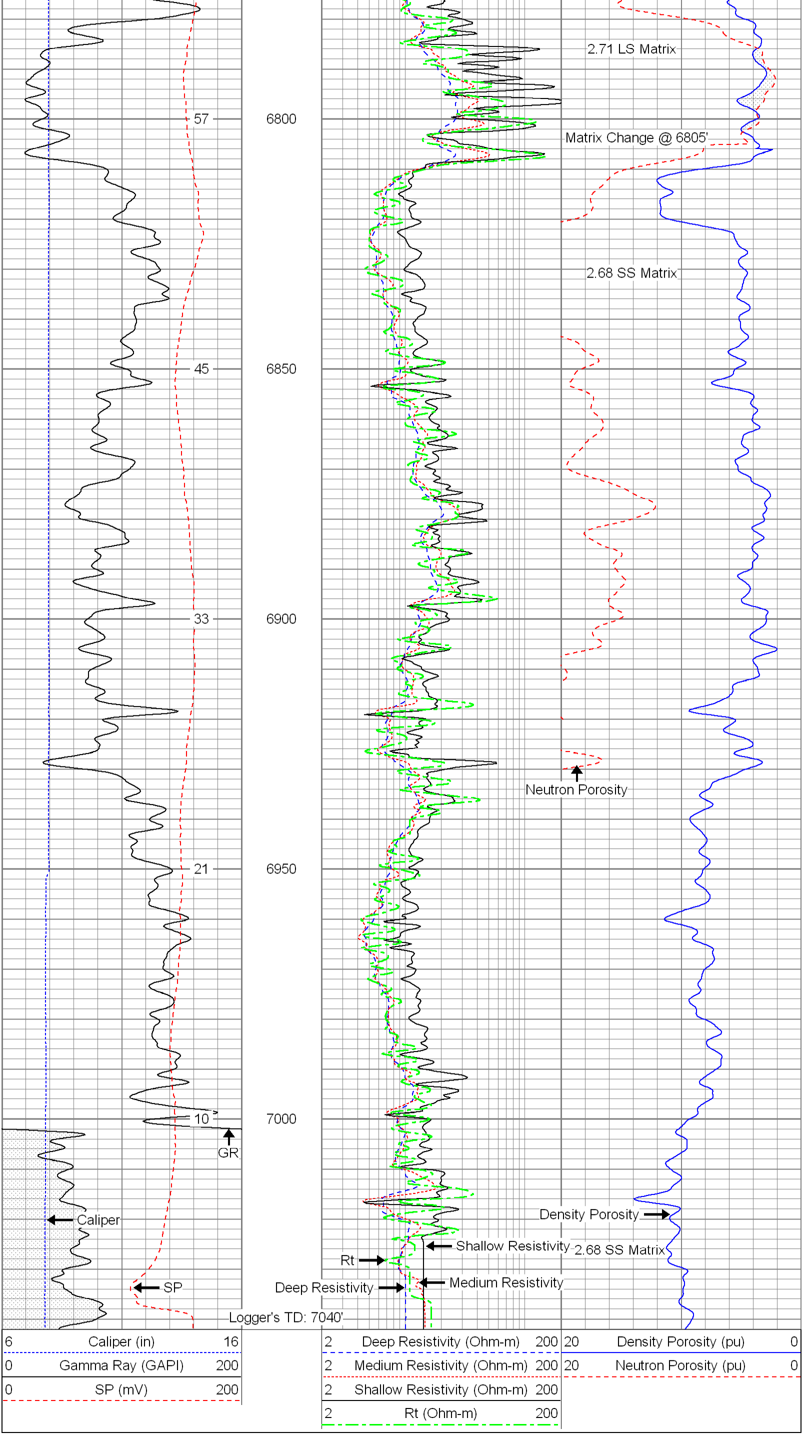
6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
2.71 LS Matrix
154
6400
142
6450
129
6500
117
6550