PSI
PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company
Well
Field
County
State/Prv

Company	Noble Energy Inc.
Well	REI H20-30D
Field	Wattenberg
County	Weld
State/Province	Colorado

Location SHL: 425' FSL & 468' FEL SE SE
Sec - 18, Twp - 3N, Rge - 65W
BHL: 120' FSL & 181' FWL SW SW
Sec - 17, Twp - 3N, Rge - 65W

Other Services
None

Elevation
K.B. 4937
D.F. 4937
G.L. 4924

Permanent Datum	GL	Elevation	4924
Log Measured From	KB		
Drilling Measured From	KB		

Date	April 6, 2012		
Run Number	1		
Depth Driller	8039		
Depth Logger	8031		
Bottom Logged Interval	8031		
Top Log Interval	Casing		
Casing Driller	735		
Casing Logger	735		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.8 / 48		
pH / Fluid Loss	8.0 / 11.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.25 @ 72 F		
Rmf @ Meas. Temp	2.59 @ 72 F		
Rmc @ Meas. Temp	3.94 @ 72 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	0.97 @ 239 F		
Time Circulation Stopped	0900		
Time Logger on Bottom	1615		
Maximum Recorded Temperature	239 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Randy Conley		
Witnessed By	John Taylor		

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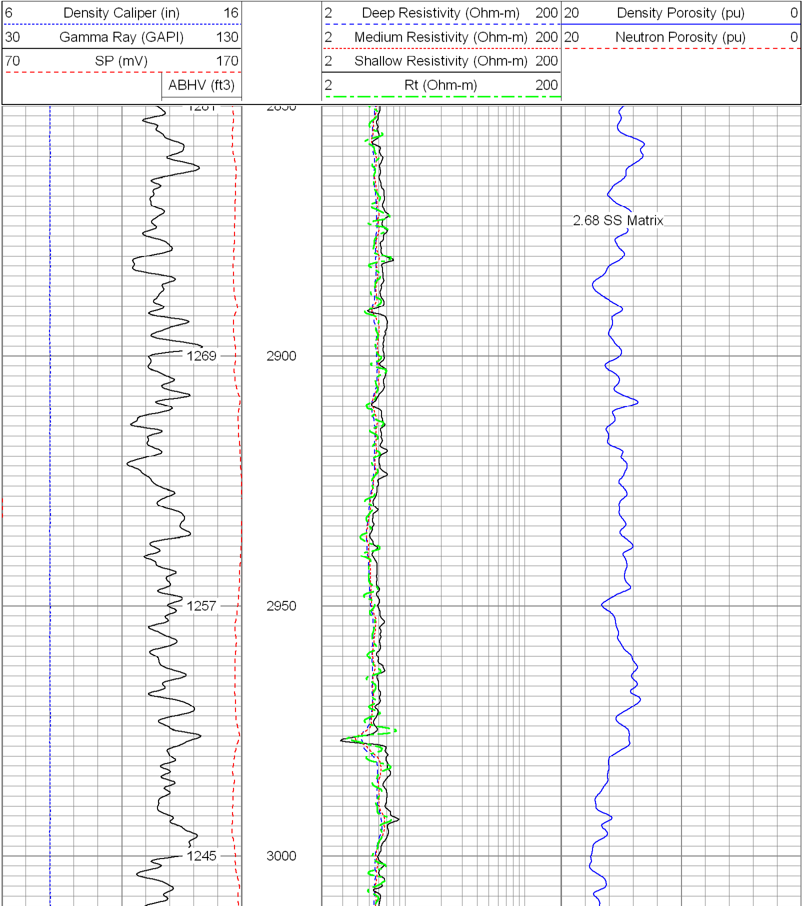
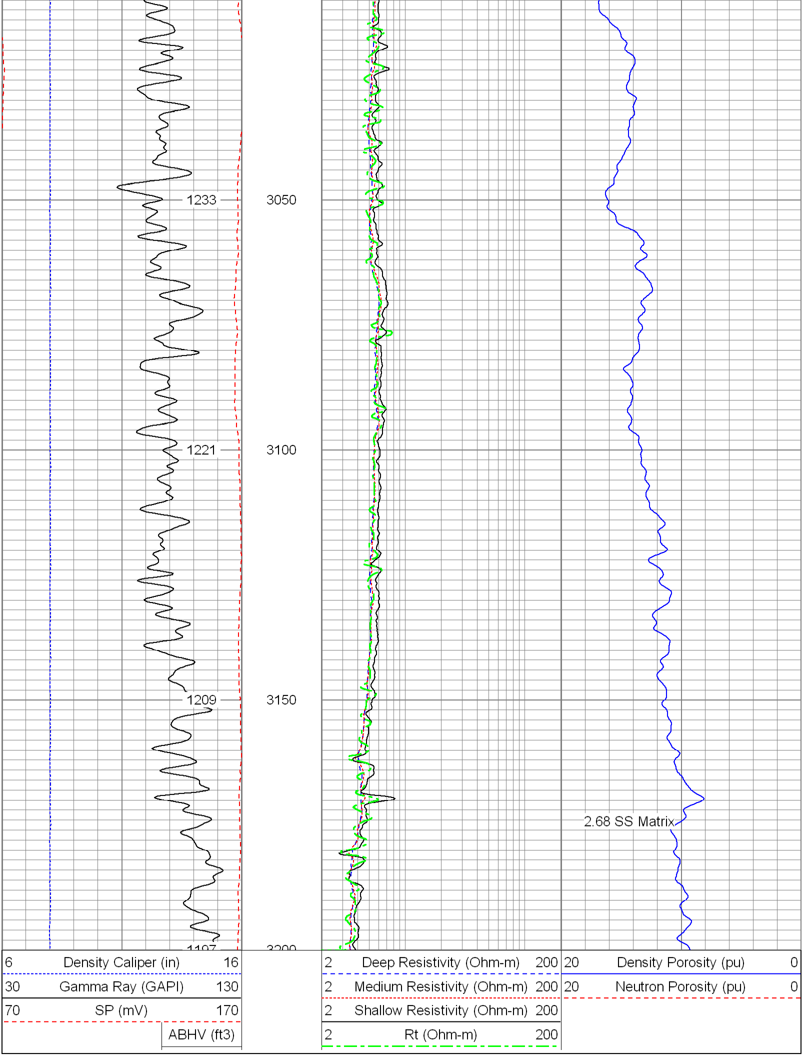
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 136
Thank you for using Phoenix Surveys!!
API #: 05-123-31962-00

Database File: 12835.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Fri Apr 06 16:42:35 2012
Charted by: Depth in Feet scaled 1:240





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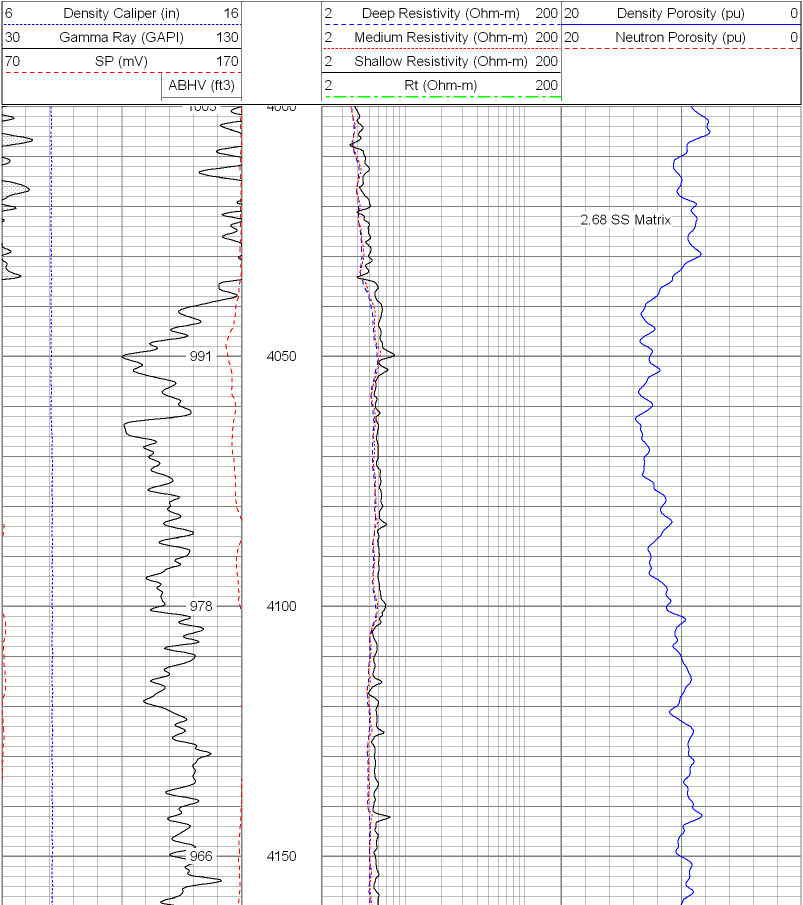

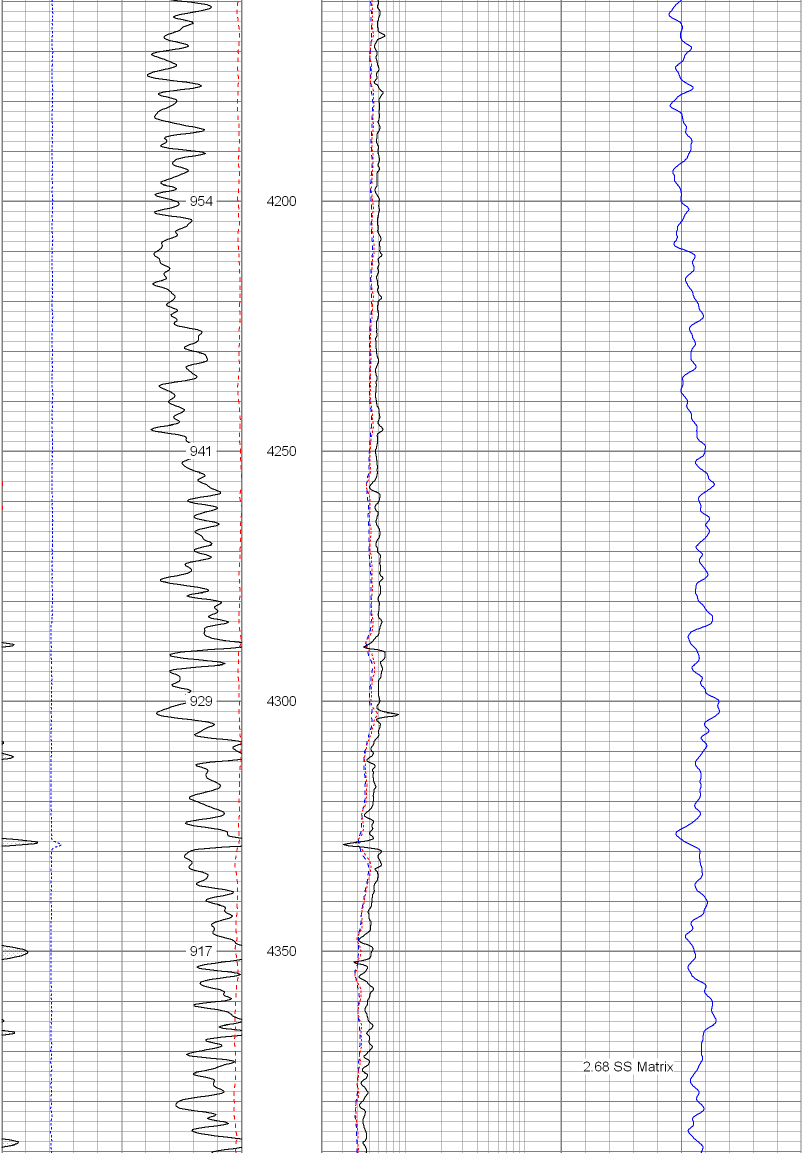

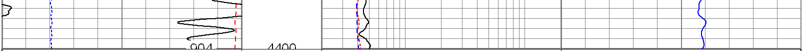

6	Density Caliper (in)	16	
30	Gamma Ray (GAPI)	130	
70	SP (mV)	170	
	ABHV (ft3)		

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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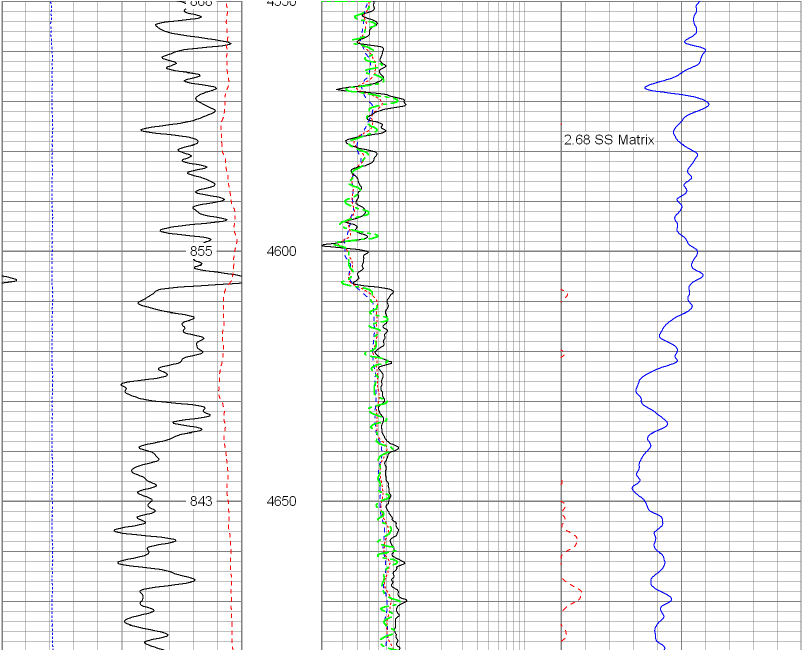

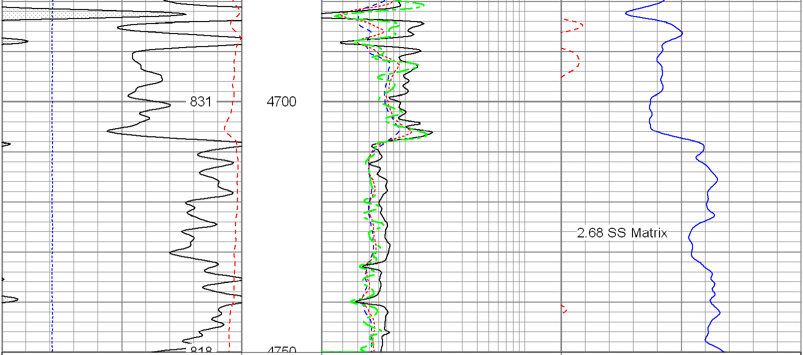

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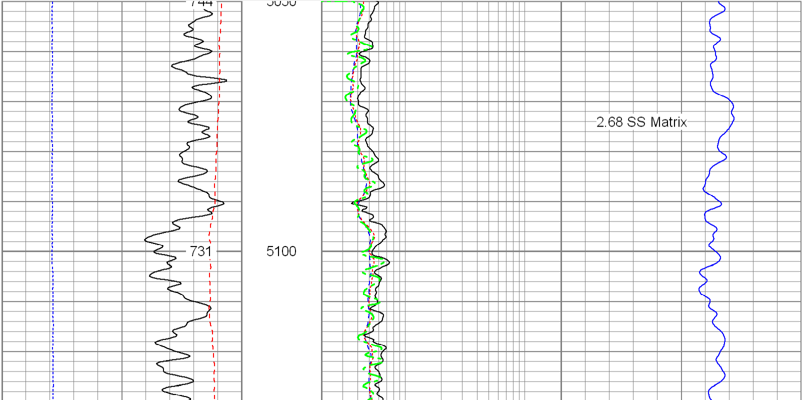

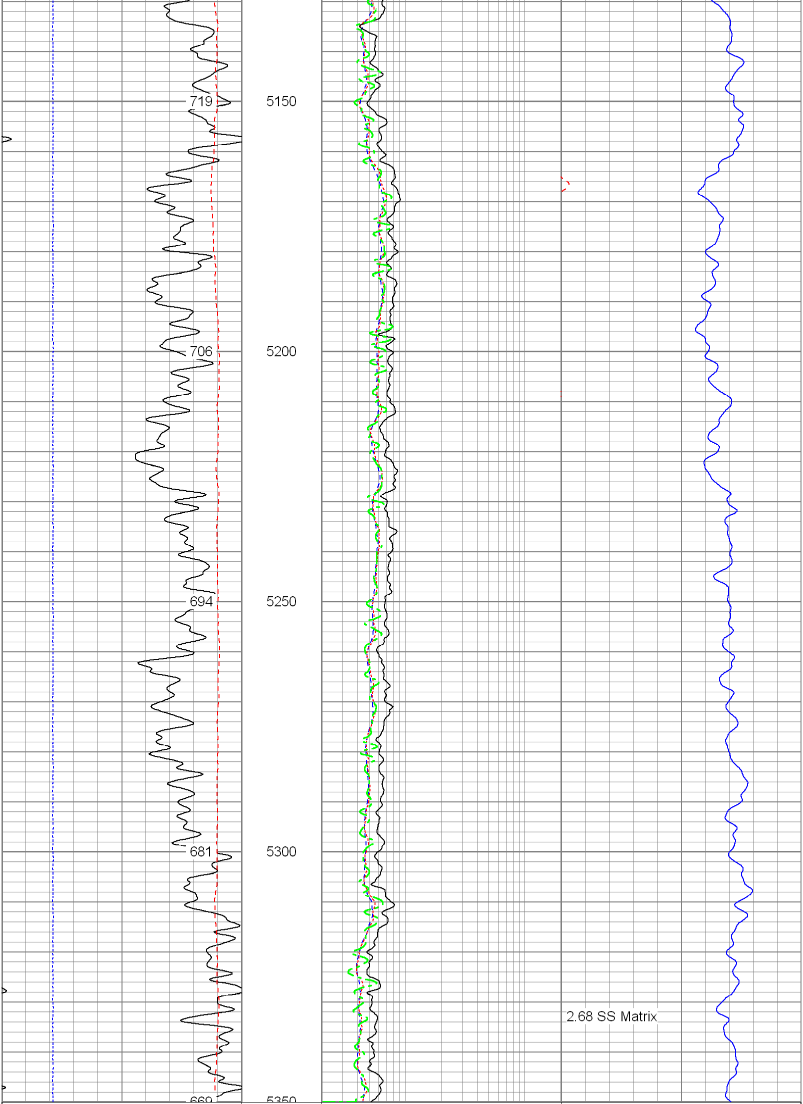

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70 SP (mV) 170
ABHV (ft3)

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0 Gamma Ray (GAPI) 200
0 SP (mV) 200

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2 Medium Resistivity (Ohm-m) 200
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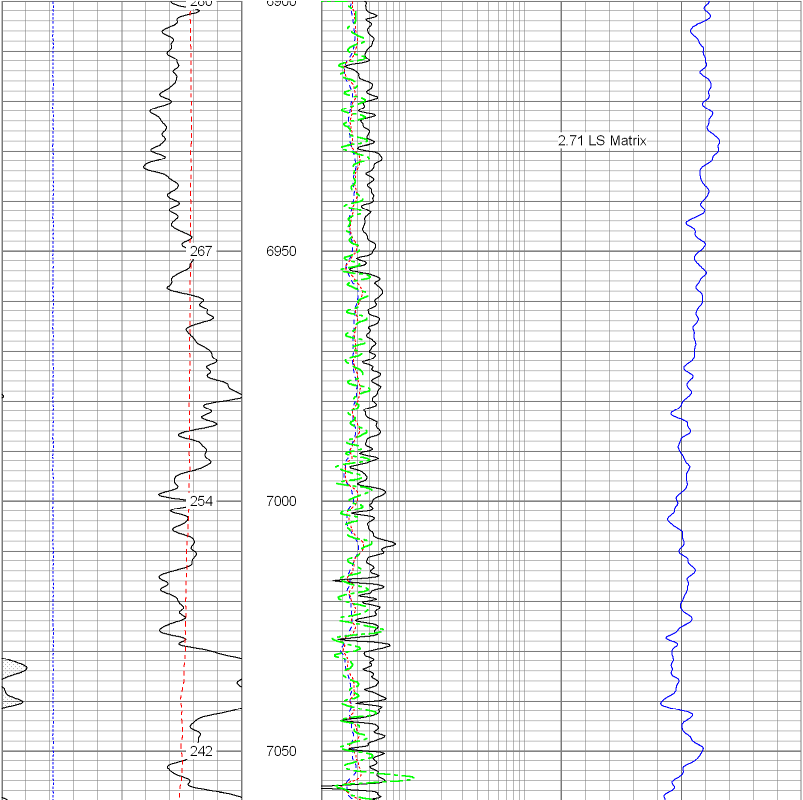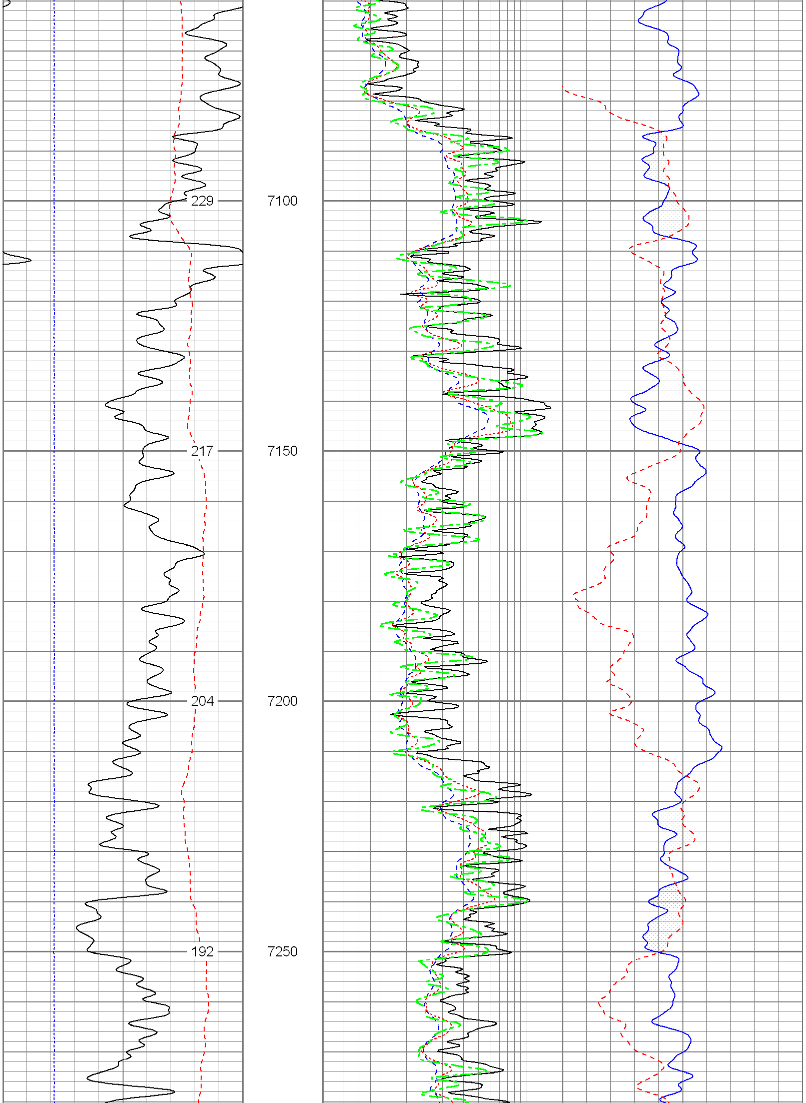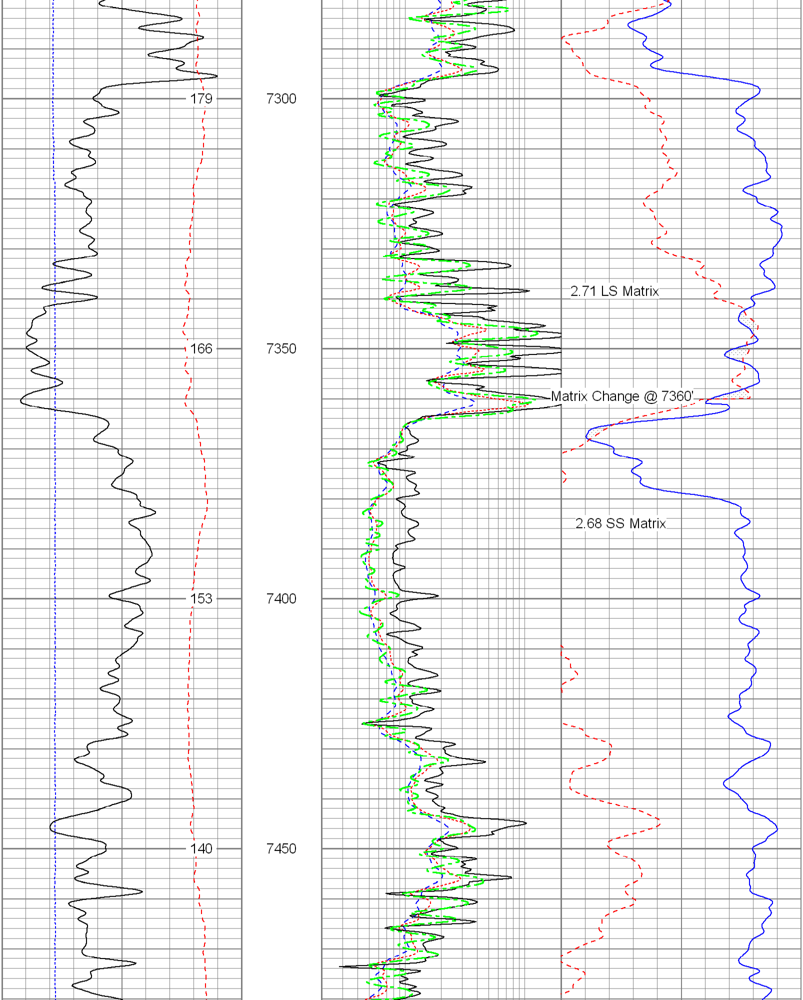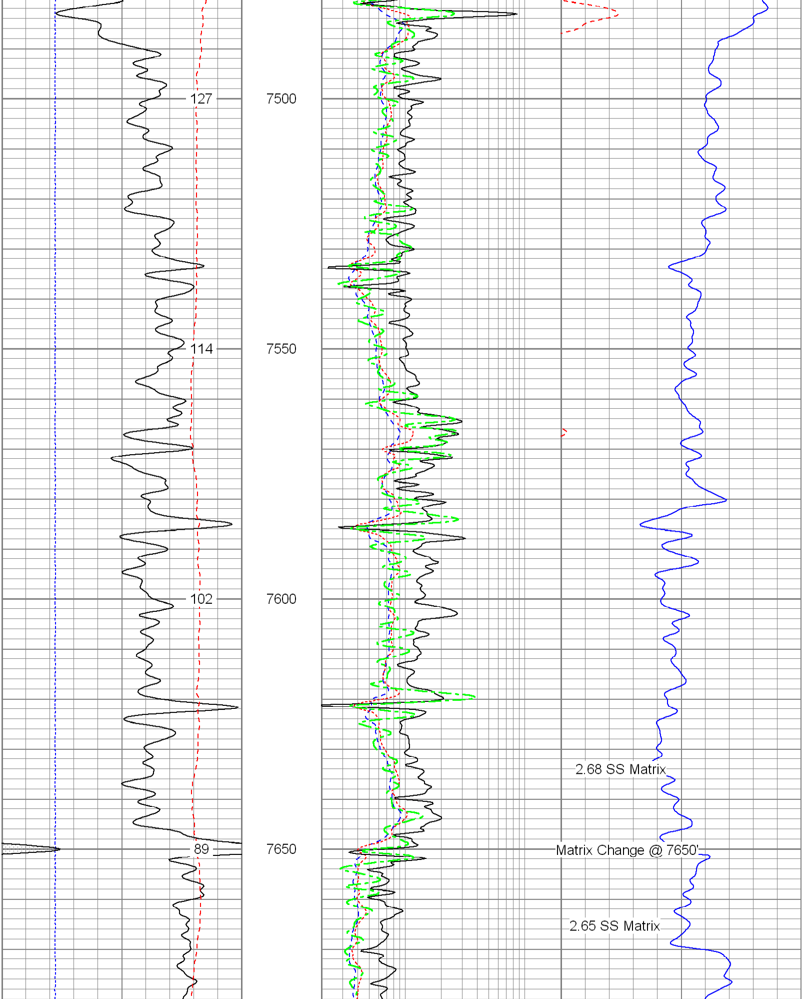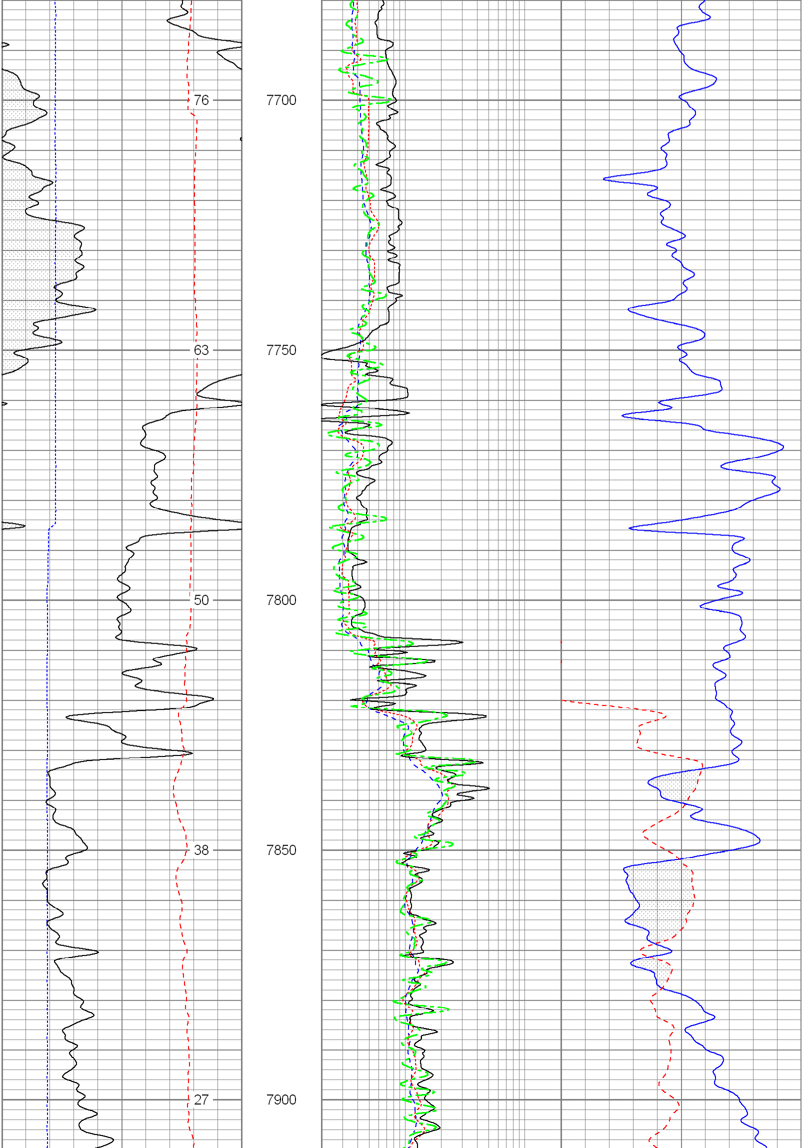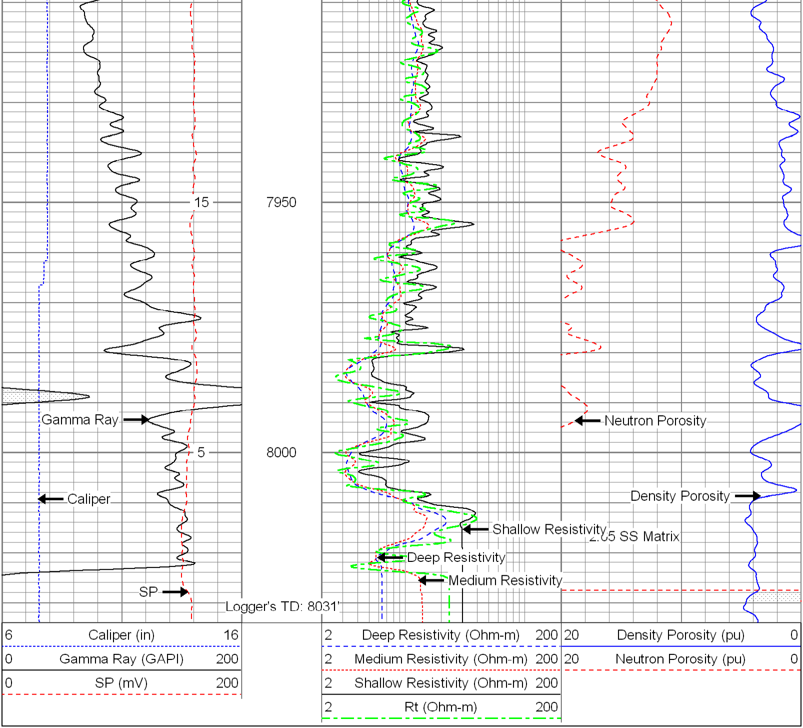20 Density Porosity (pu) 0
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