PHOENIX SURVEYS, INC.

DUAL INDUCTION
GUARD LOG
GAMMA RAY

Company
Well
Field
County
State/Prv

Company **Noble Energy Inc.**
Well **LDS E25-33D**
Field **Wattenberg**
County **Weld** State/Province **Colorado**

Location SHL: 2395' FSL & 255' FWL NWSW
BHL: 1378' FSL & 84' FWL NWSW
Sec. 25, Twp. 6N, Rge. 65W

Other Services
Density
Neutron
Micro Log

Permanent Datum GL Elevation 4684
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4697
D.F. 4697
G.L. 4684

Date	December 2, 2010		
Run Number	1		
Depth Driller	7280		
Depth Logger	7278		
Bottom Logged Interval	7278		
Top Log Interval	Casing		
Casing Driller	612		
Casing Logger	612		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.2 / 50		
pH / Fluid Loss	8.5 / 9.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.70 @ 65 F		
Rmf @ Meas. Temp	2.00 @ 65 F		
Rmc @ Meas. Temp	3.50 @ 65 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	0.86 @ 205 F		
Time Circulation Stopped	2200		
Time Logger on Bottom	0545		
Maximum Recorded Temperature	205 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Schuman		
Witnessed By	Boyles		

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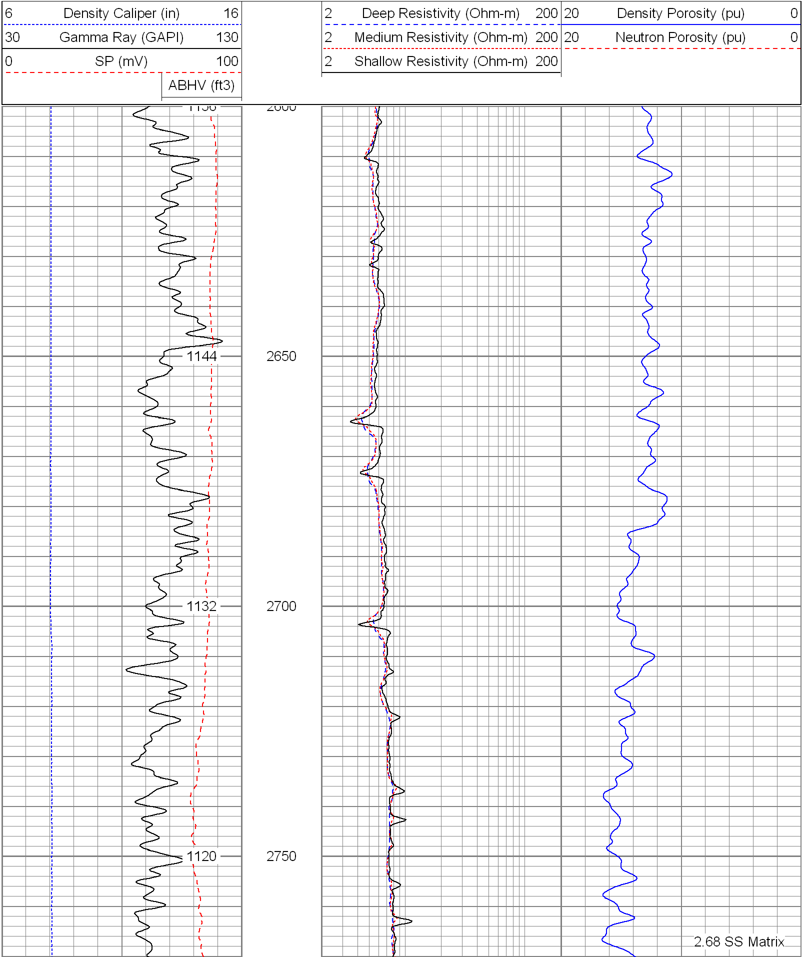
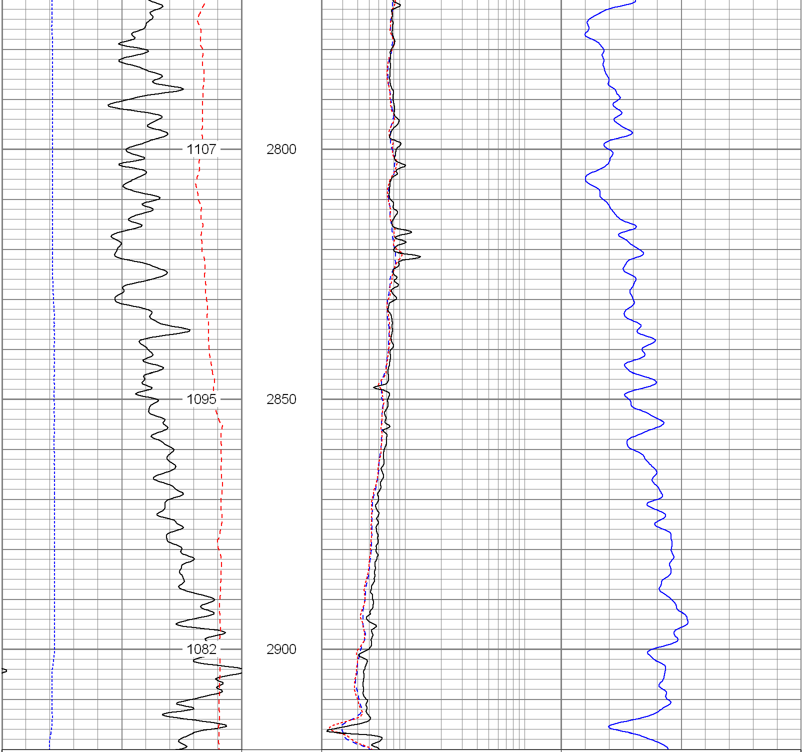
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 #: 05-123-32109

Database File:	11236.db
Dataset Pathname:	main
Presentation Format:	pdc1
Dataset Creation:	Thu Dec 02 08:36:07 2010
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
0	SP (mV)	100	2	Shallow Resistivity (Ohm-m)	200			
	ABHV (ft3)							

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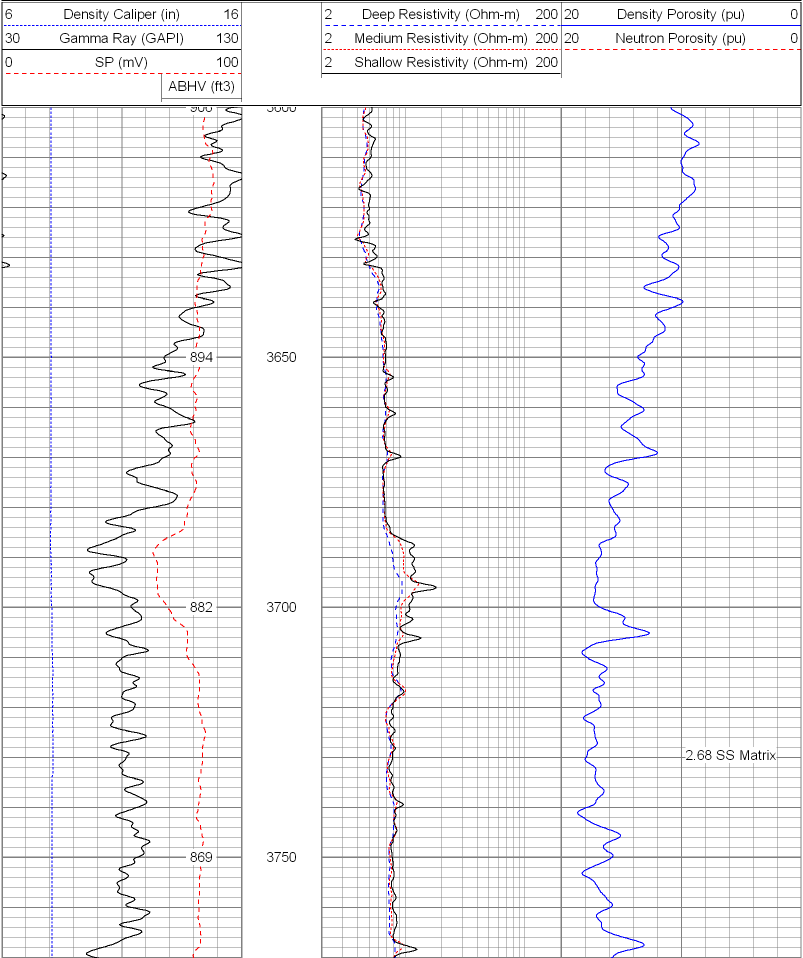

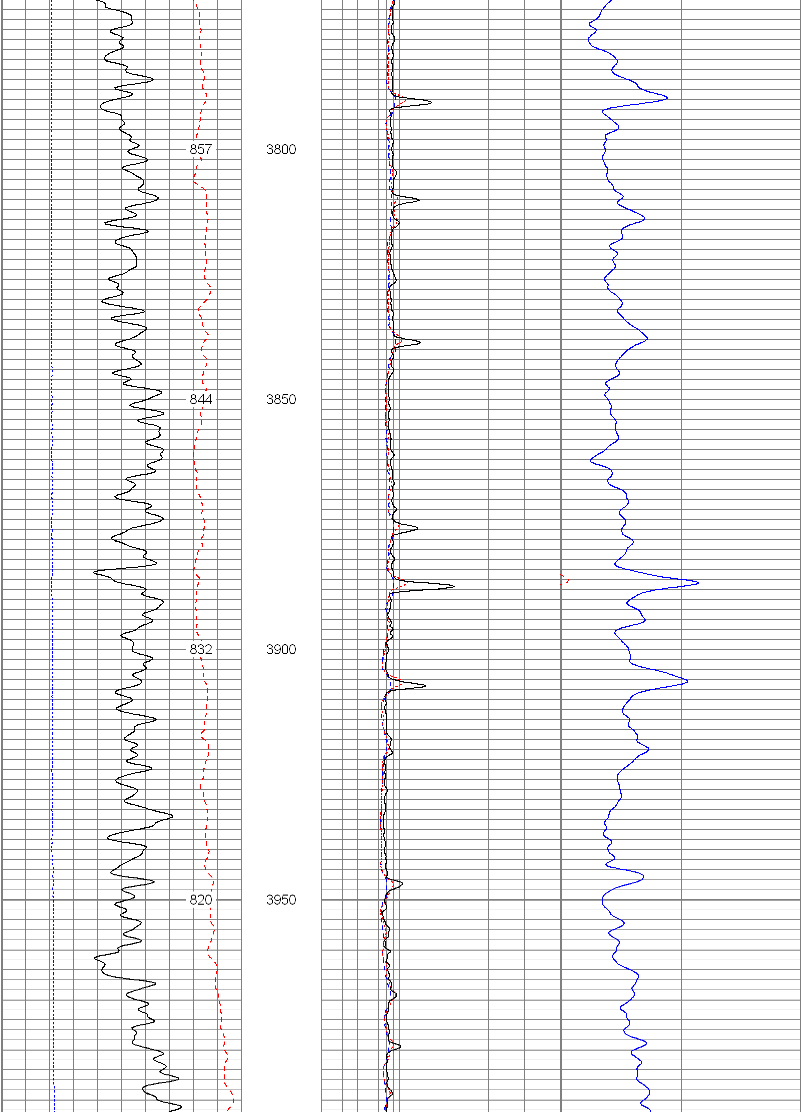

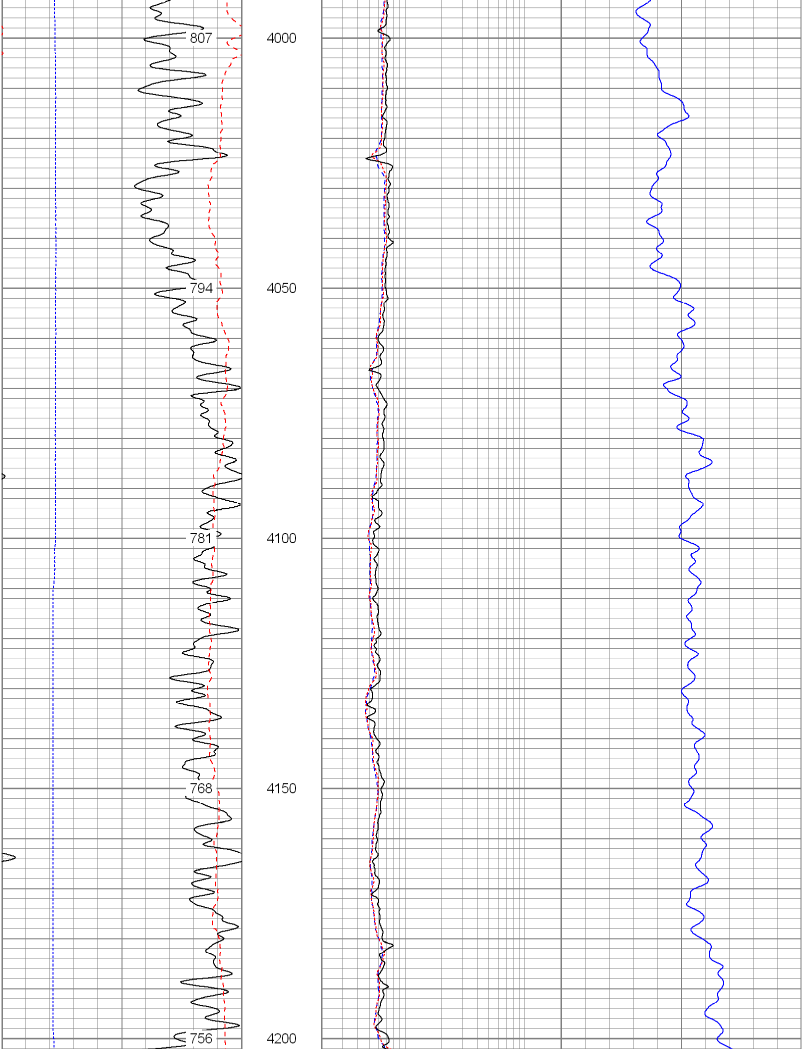

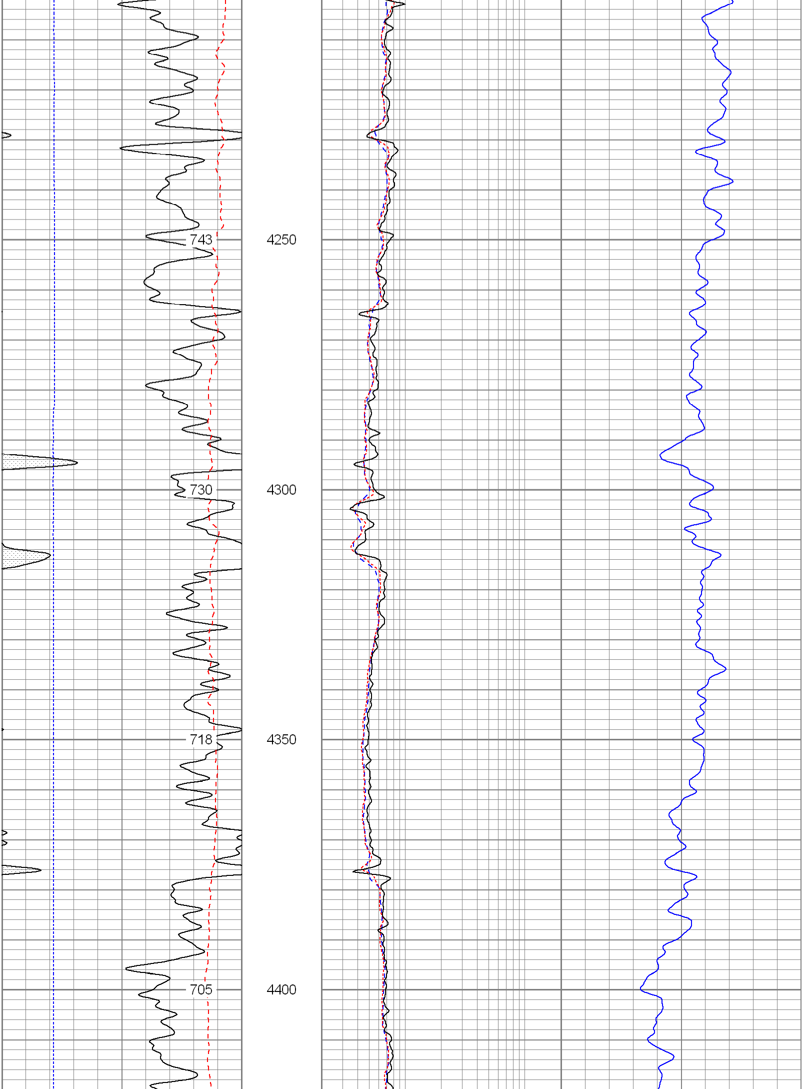

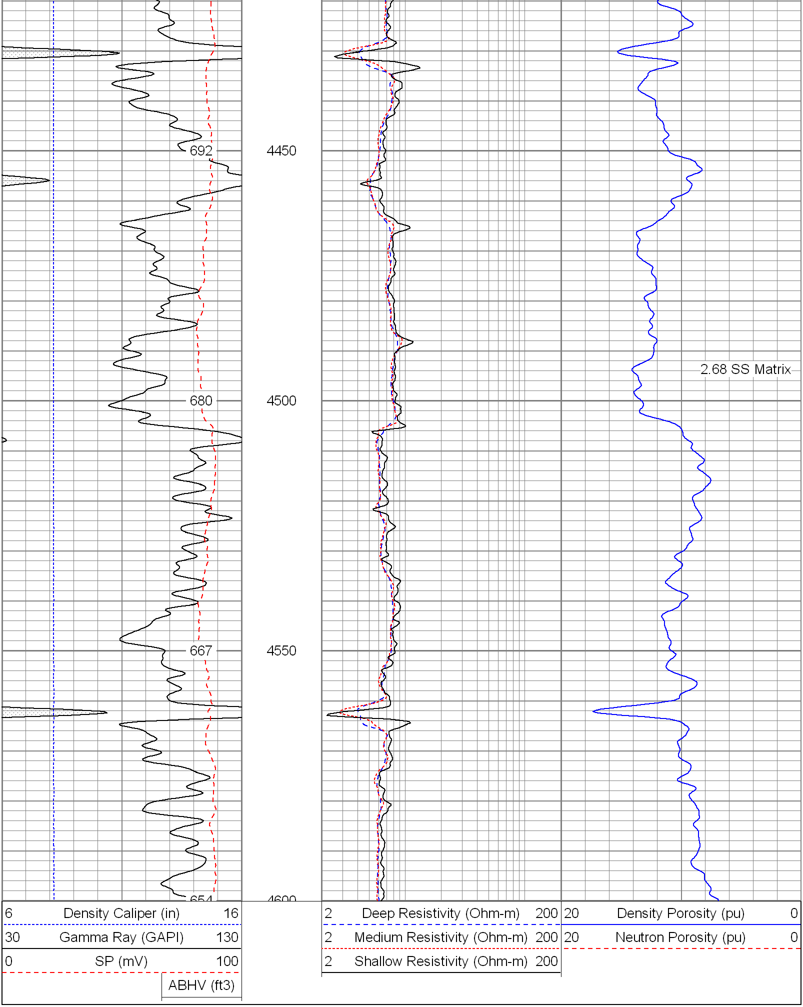

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30 Gamma Ray (GAPI) 130
0 SP (mV) 100
ABHV (ft3)

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2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200

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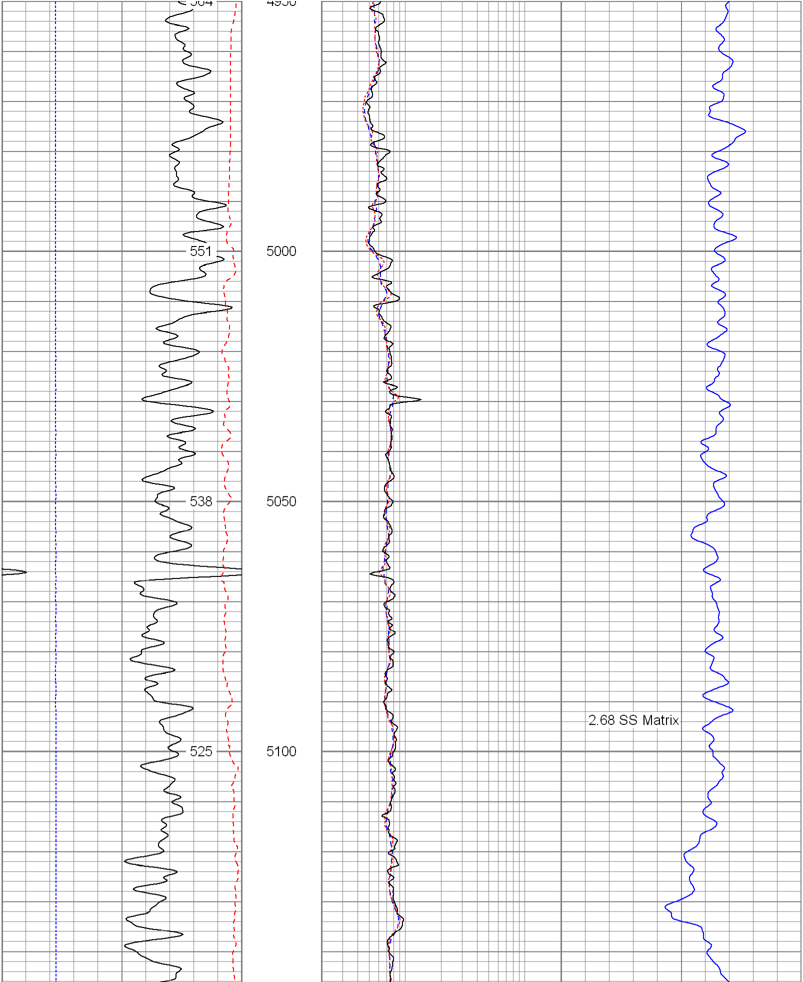

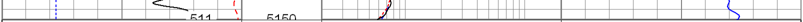

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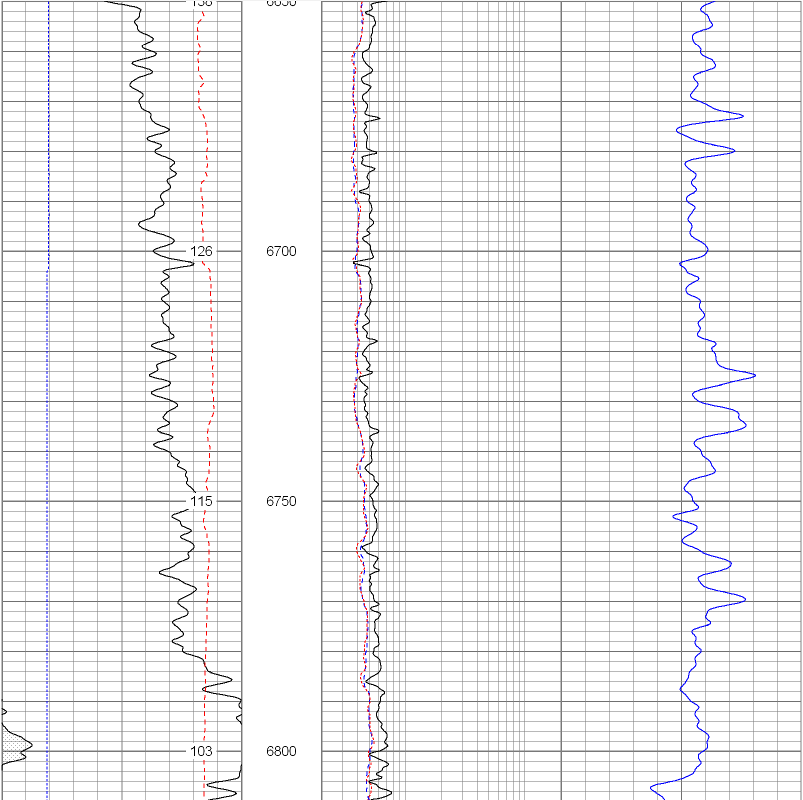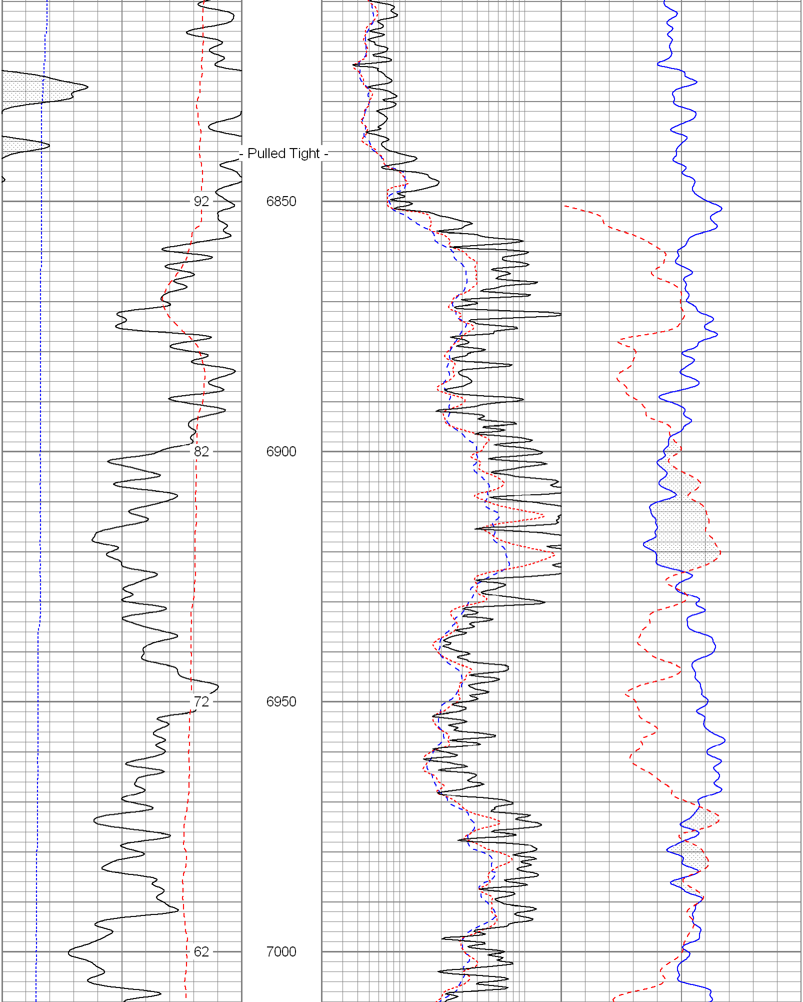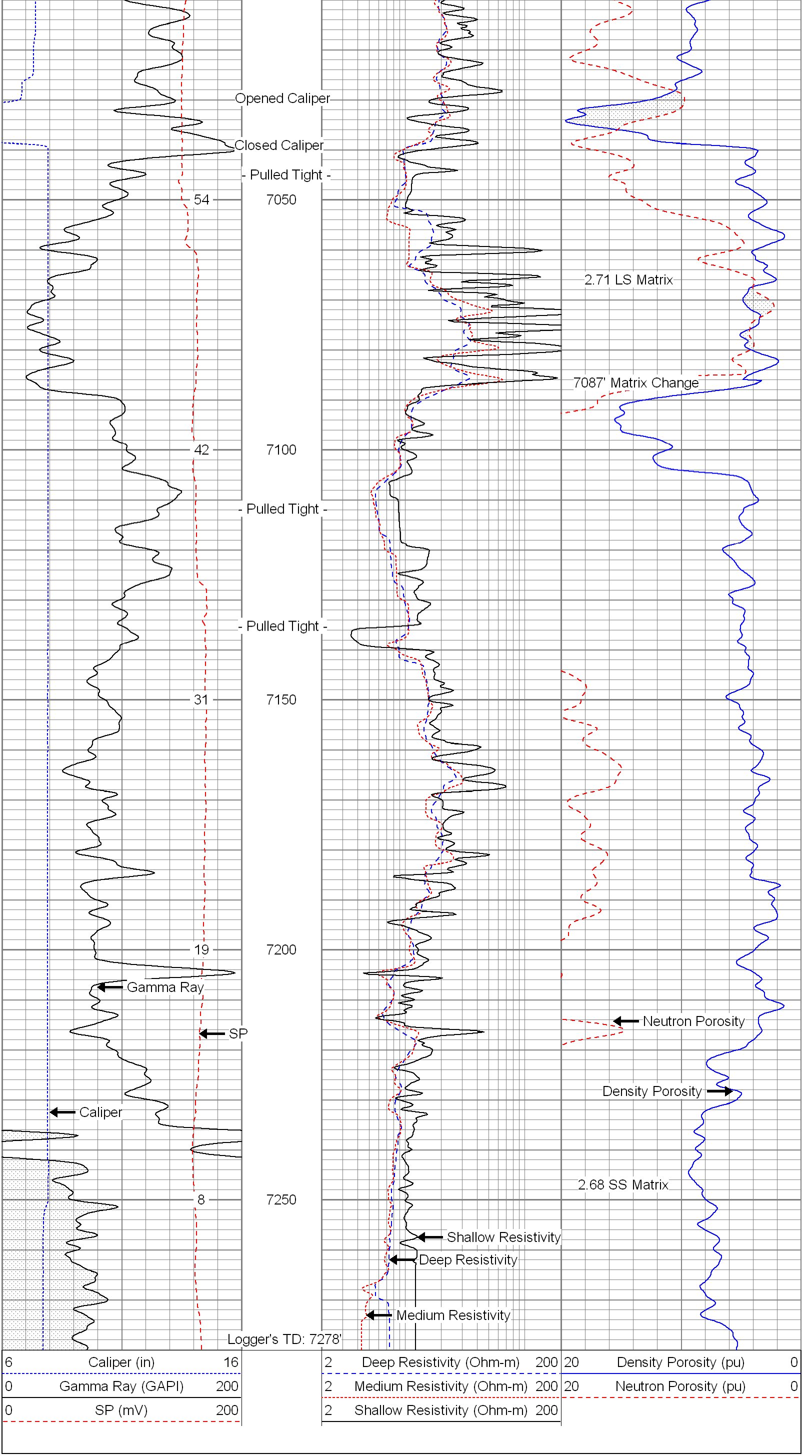20 Density Porosity (pu) 0
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