PHOENIX SURVEYS, INC.

DUAL INDUCTION
GUARD LOG
GAMMA RAY

Company
Well
Field
County
State/Prv

Company	Noble Energy Inc.		
Well	Dinnel C 27-29 D		
Field	Wattenberg		
County	Weld	State/Province	Colorado

Location
SHL: 608' FSL & 672' FWL SWSW
BHL: 136' FSL & 1340' FWL SESW
Sec. 22, Twp. 4N, Rge. 64W

Other Services
Density
Neutron
Microlog

Permanent Datum	GL	Elevation	4677
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4690
D.F. 4690
G.L. 4677

Date	November 1, 2010		
Run Number	1		
Depth Driller	7085		
Depth Logger	7080		
Bottom Logged Interval	7080		
Top Log Interval	Casing		
Casing Driller	755		
Casing Logger	755		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.4 / 50		
pH / Fluid Loss	9.0 / 12.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.71 @ 70 F		
Rmf @ Meas. Temp	2.17 @ 70 F		
Rmc @ Meas. Temp	3.25 @ 70 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.15 @ 201 F		
Time Circulation Stopped	0900		
Time Logger on Bottom	1345		
Maximum Recorded Temperature	201 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Jeff Cihak		

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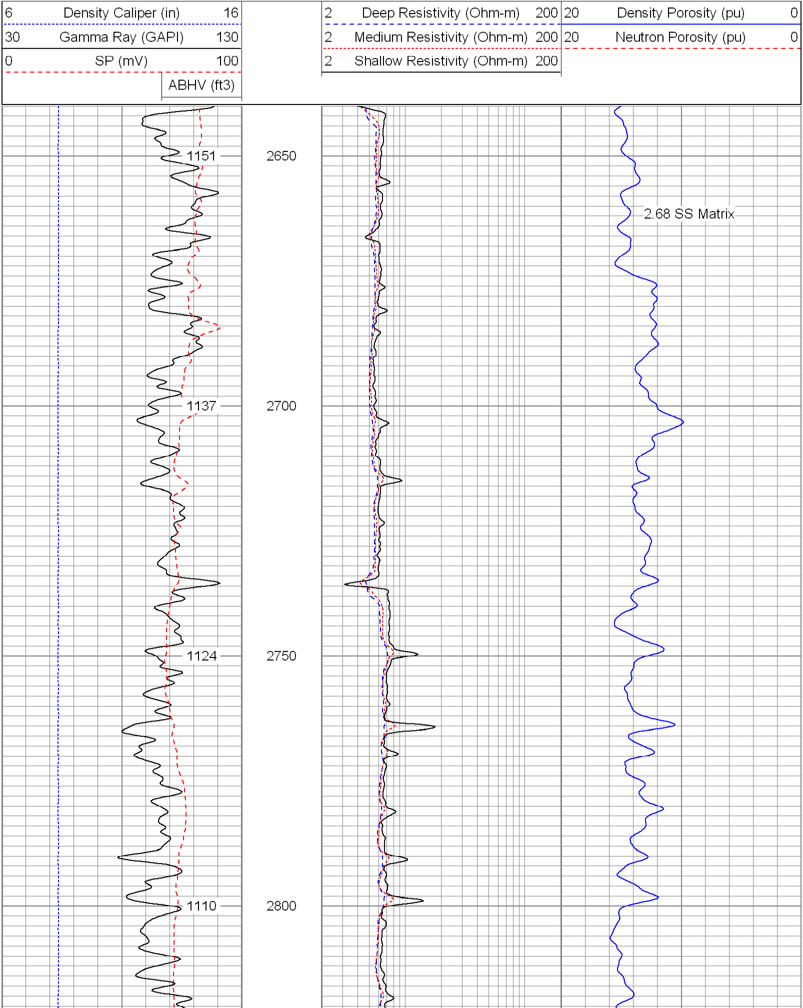
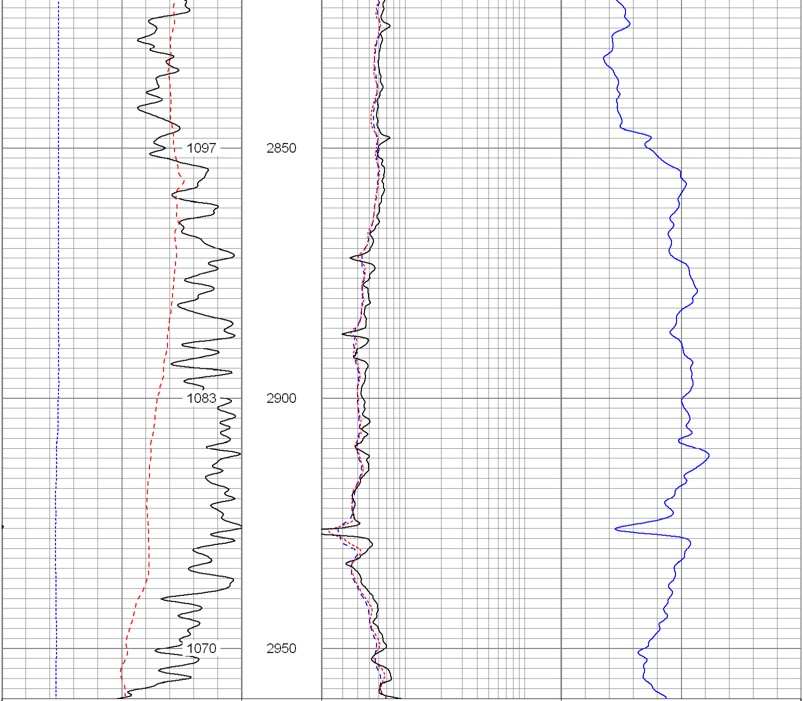
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Rig 126
Thank you for using Phoenix Surveys!!
API #: 05-123-31948-00

Database File: 11167.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Mon Nov 01 15:24:22 2010
Charted by: Depth in Feet scaled 1:240





6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
0 SP (mV) 100
ABHV (ft3)

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

20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

Database File:	11167.db
Dataset Pathname:	final
Presentation Format:	pdc1
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Charted by:	Depth in Feet scaled 1:240

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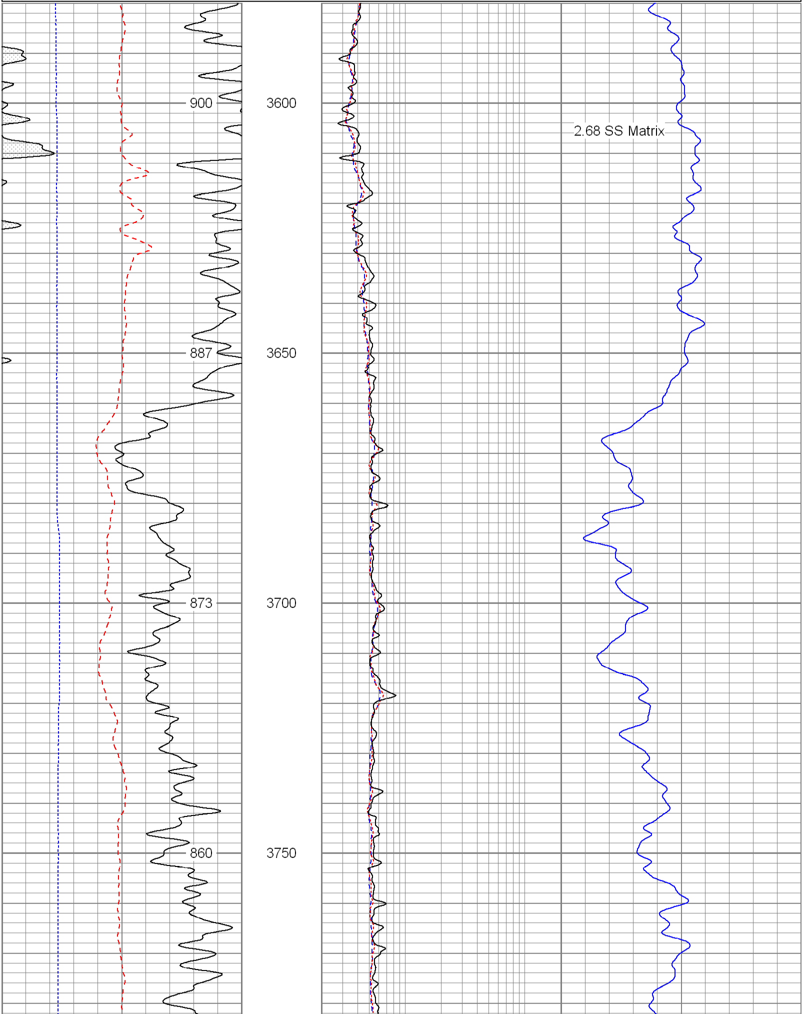

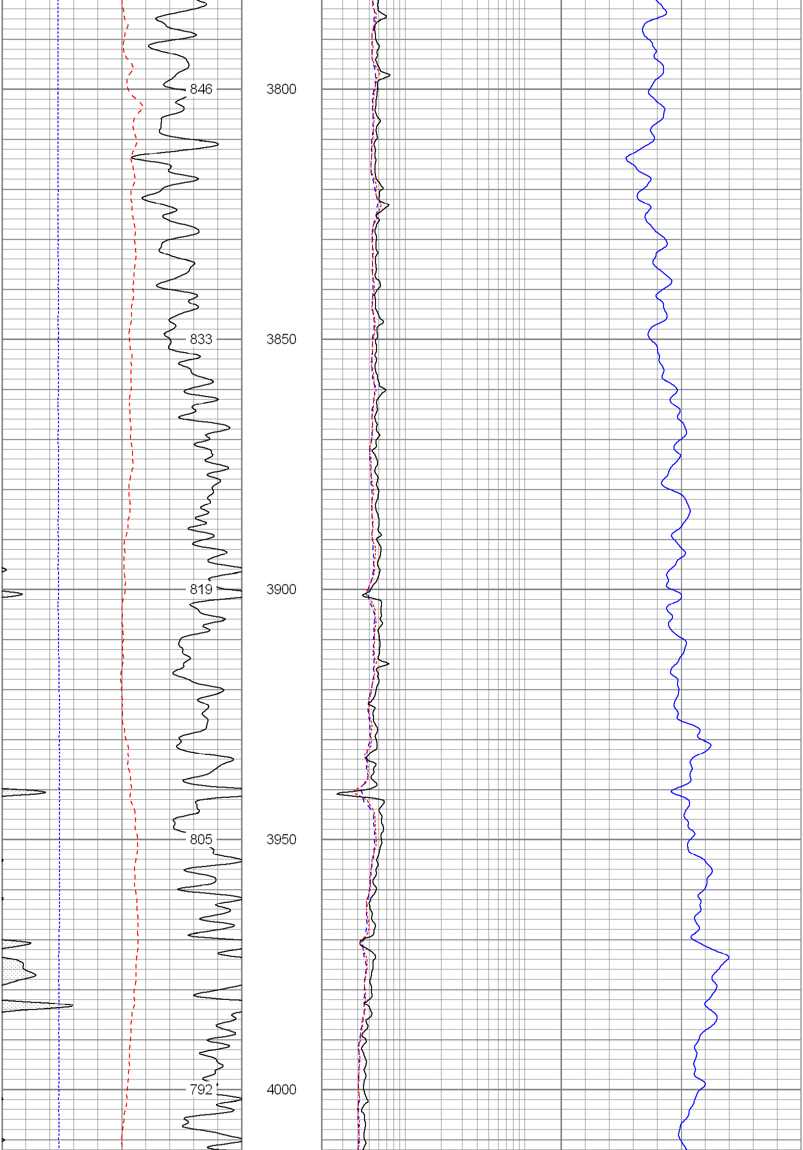

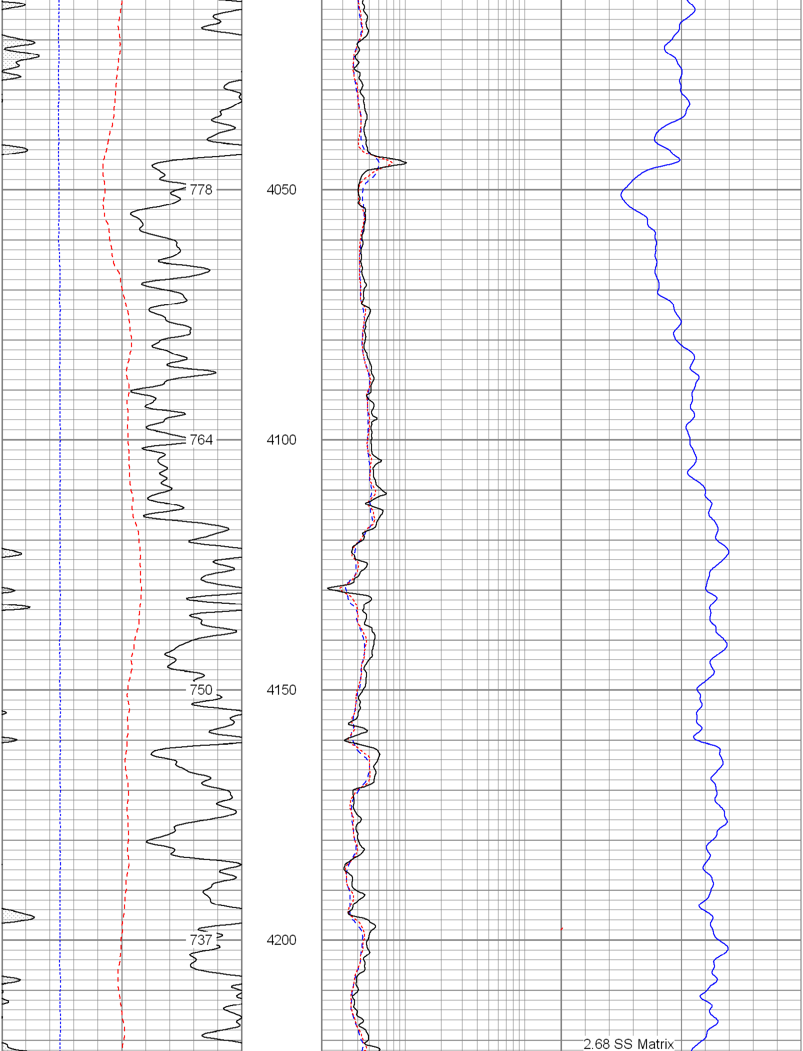

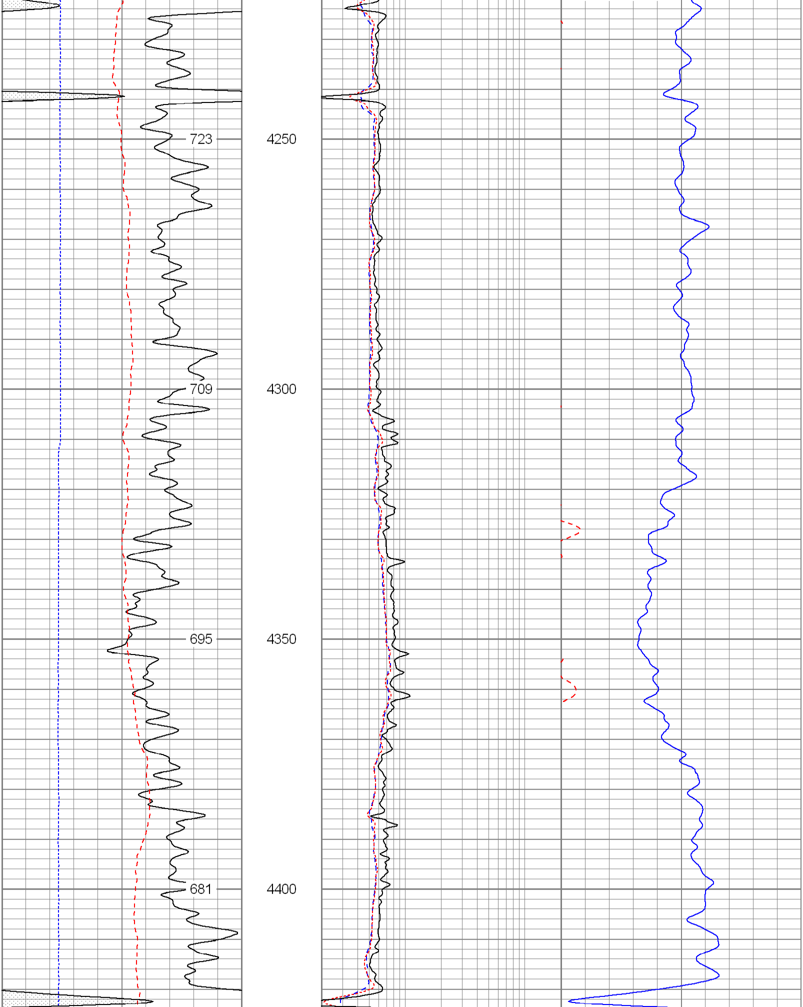

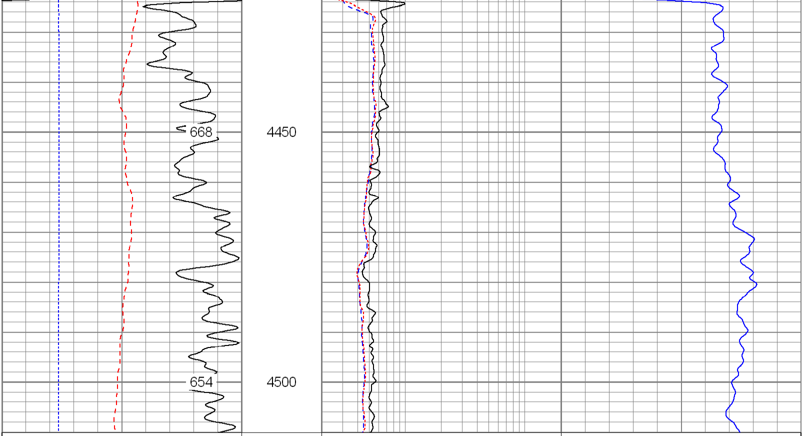

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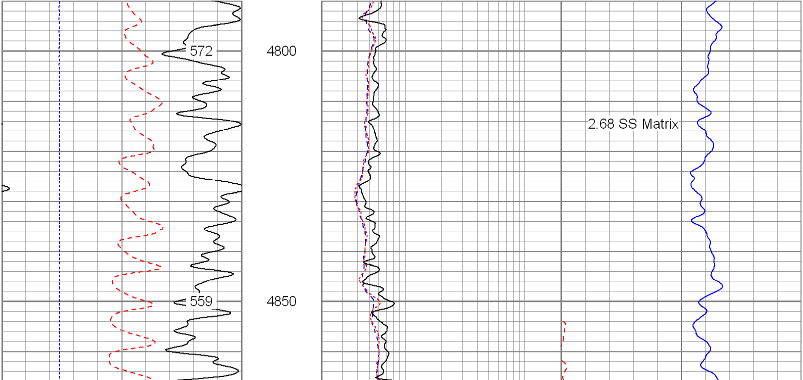

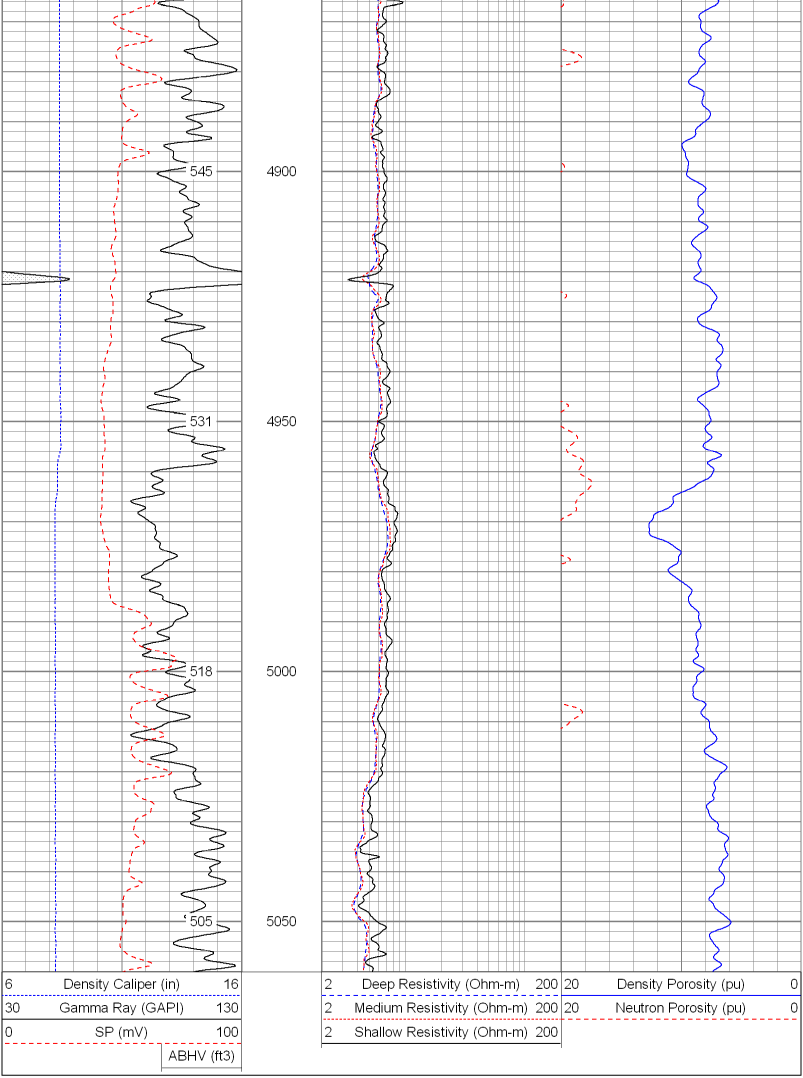

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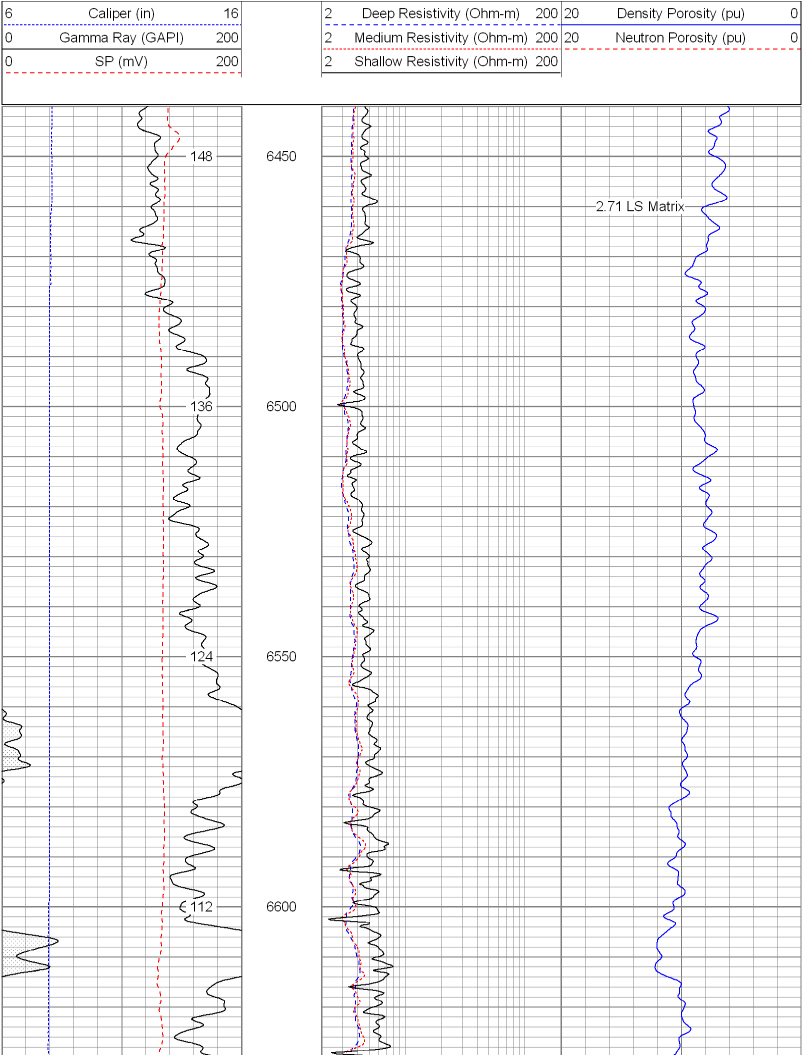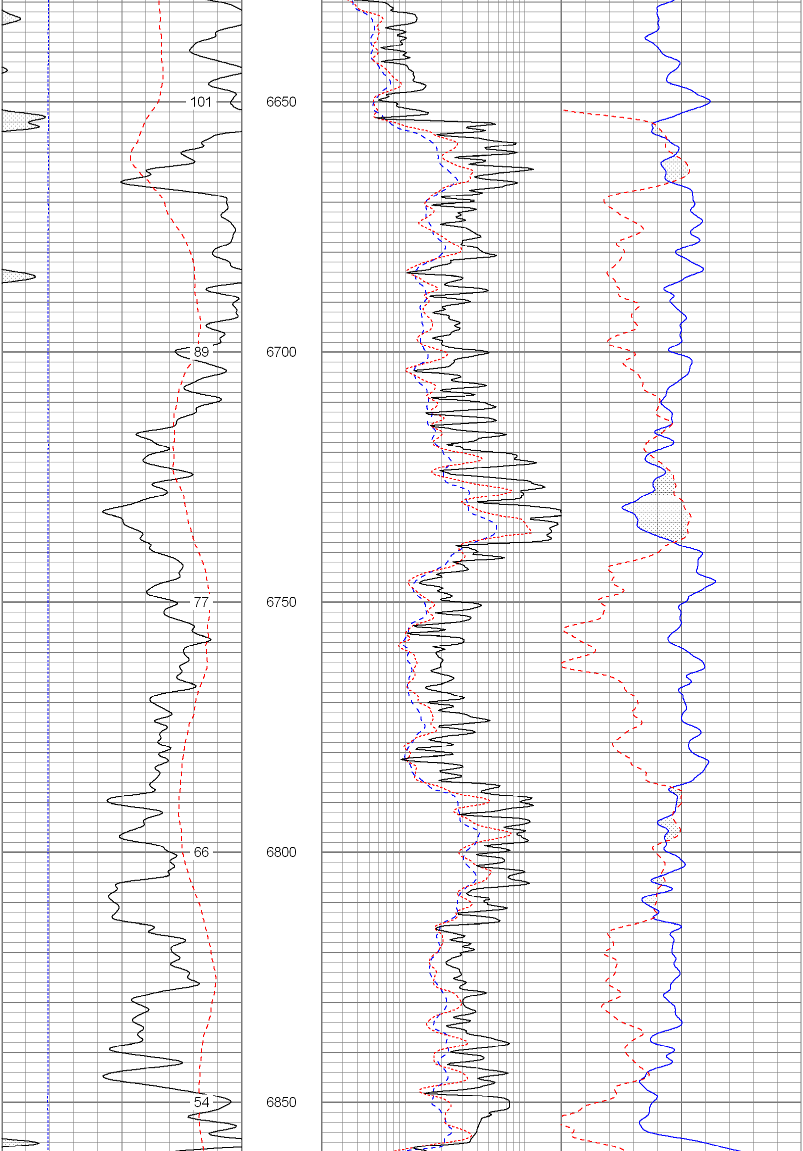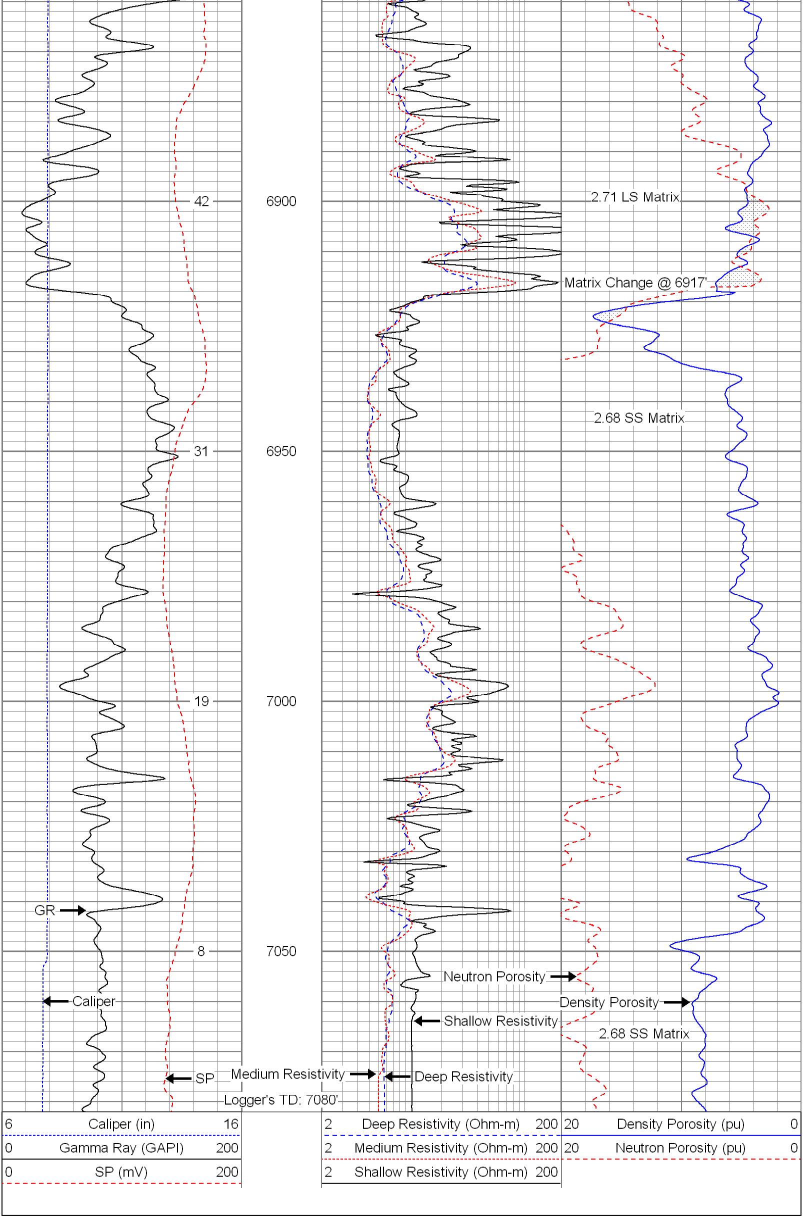
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20 Neutron Porosity (pu) 0
148
6450
2.71 LS Matrix
136
6500
124
6550
112
6600