PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company
Well
Field
County
State/Prv

Company	Noble Energy Inc.
Well	Annie B 03-23
Field	Wattenberg
County	Weld
State/Province	Colorado

Location
1450' FSL & 1463' FEL
NW SE
Sec. 3, Twp. 5N, Rge. 64W

Other Services
High
Resolution
Induction

Elevation
K.B. 4626
D.F. 4626
G.L. 4613

Permanent Datum	GL	Elevation	4613
Log Measured From	KB		
Drilling Measured From	KB		

Date	March 15, 2011		
Run Number	1		
Depth Driller	7000		
Depth Logger	7000		
Bottom Logged Interval	6980		
Top Log Interval	2530		
Casing Driller	608		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.5 / 50		
pH / Fluid Loss	8.0 / 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.95 @ 71 F		
Rmf @ Meas. Temp	2.21 @ 71 F		
Rmc @ Meas. Temp	3.69 @ 71 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.04 @ 201 F		
Time Circulation Stopped	0230		
Time Logger on Bottom	0800		
Maximum Recorded Temperature	201 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Maciej Staron		
Witnessed By	Roger Foster		

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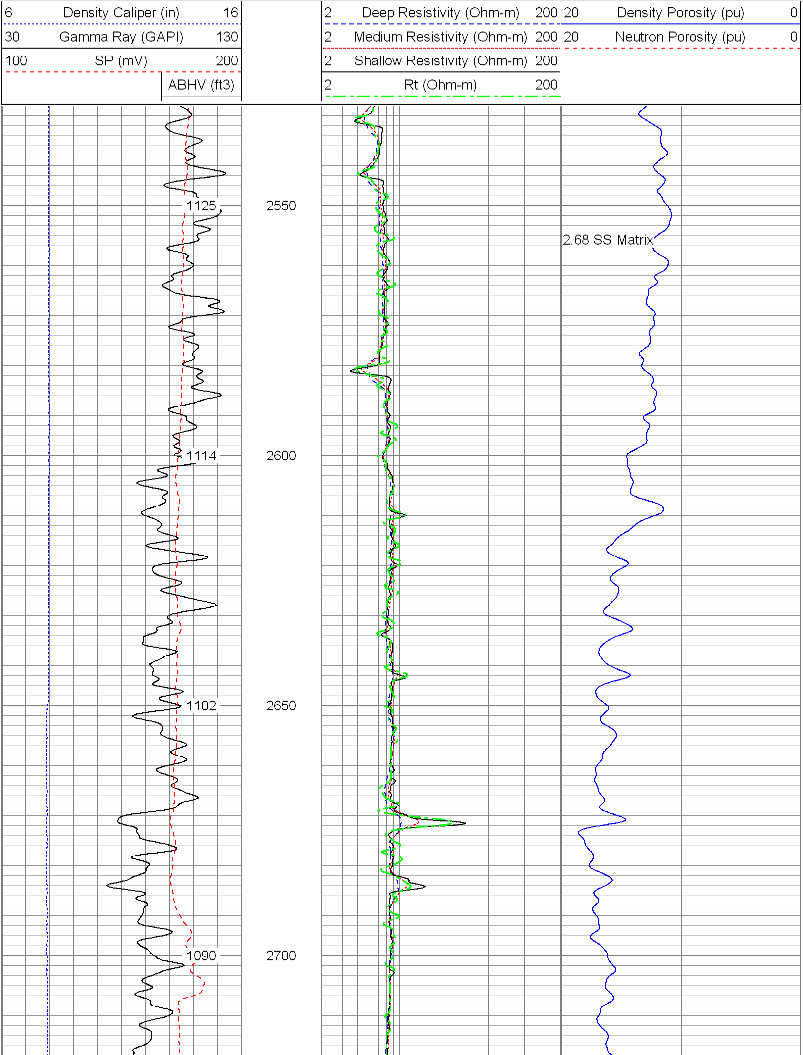
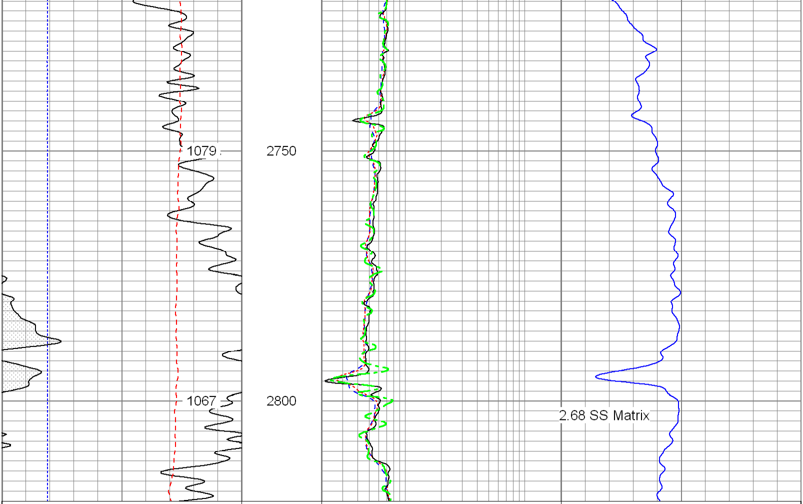
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 #: 05-123-32630-00

Database File: 11528.db
Dataset Pathname: pass3.5
Presentation Format: pdc1
Dataset Creation: Tue Mar 15 09:38:42 2011
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
100 SP (mV) 200	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)	2 Rt (Ohm-m) 200	

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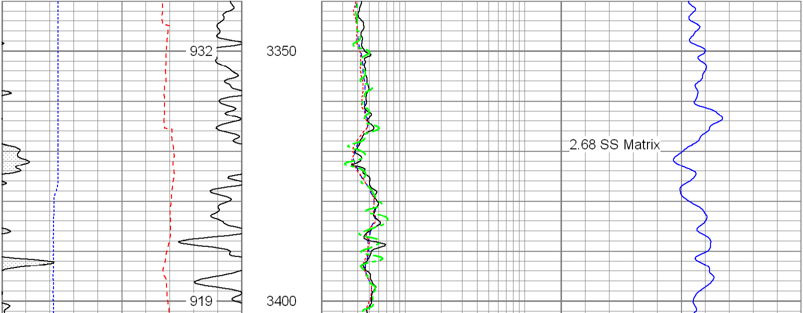

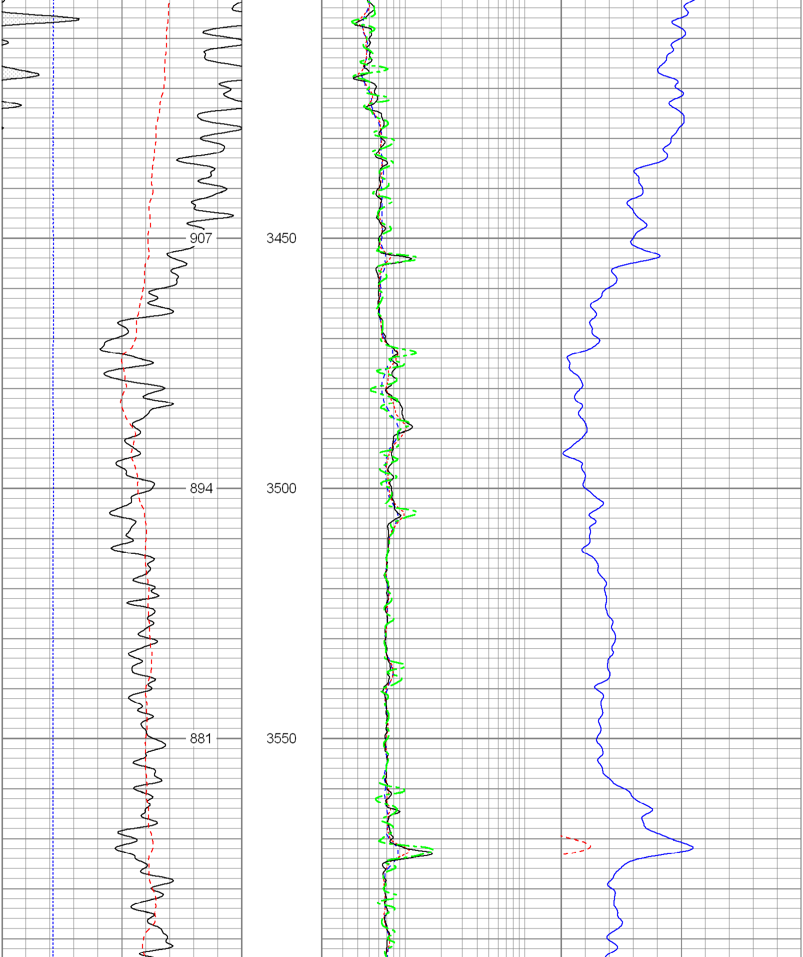

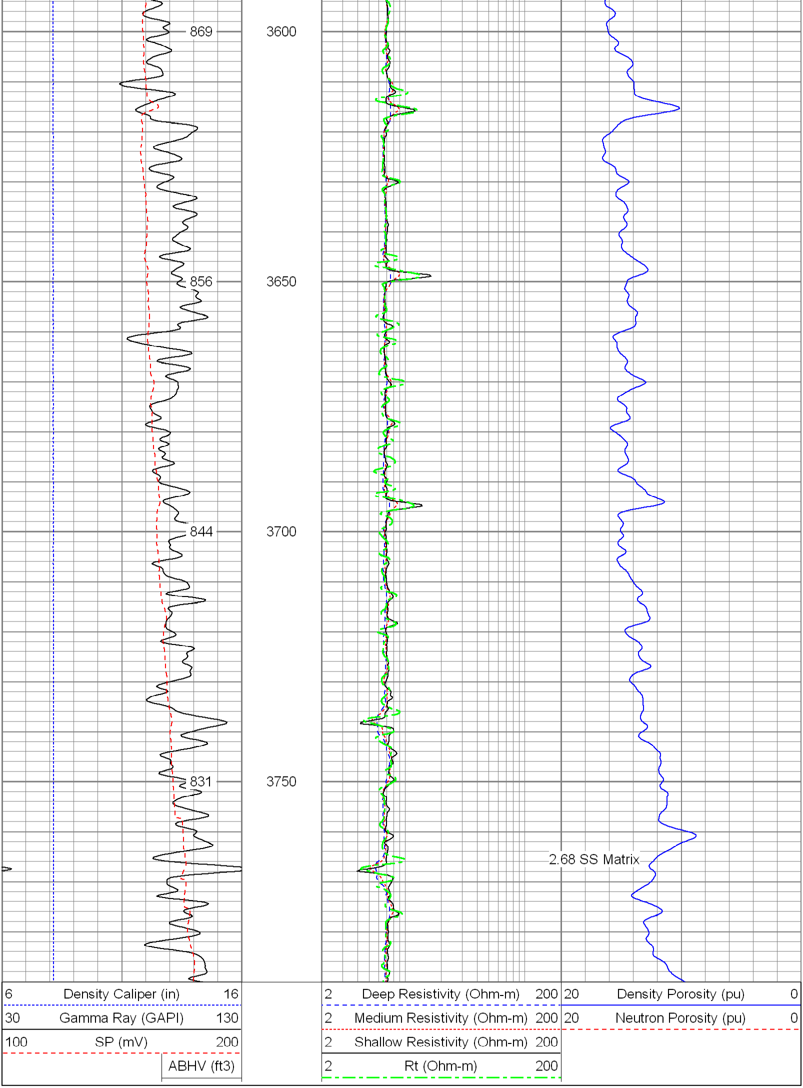

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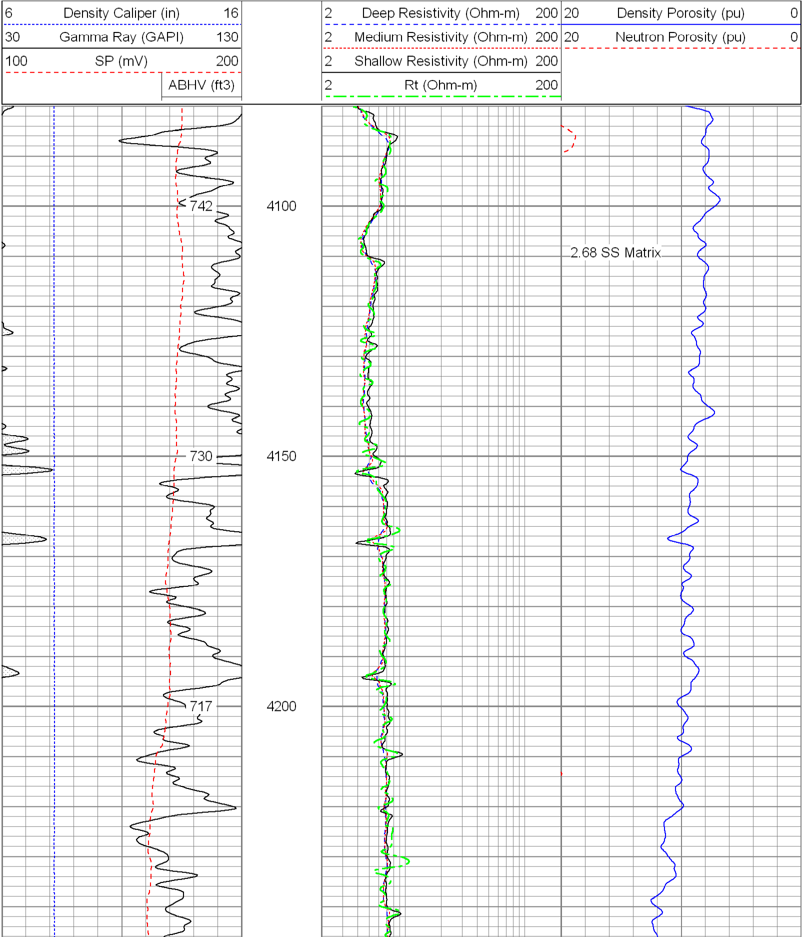

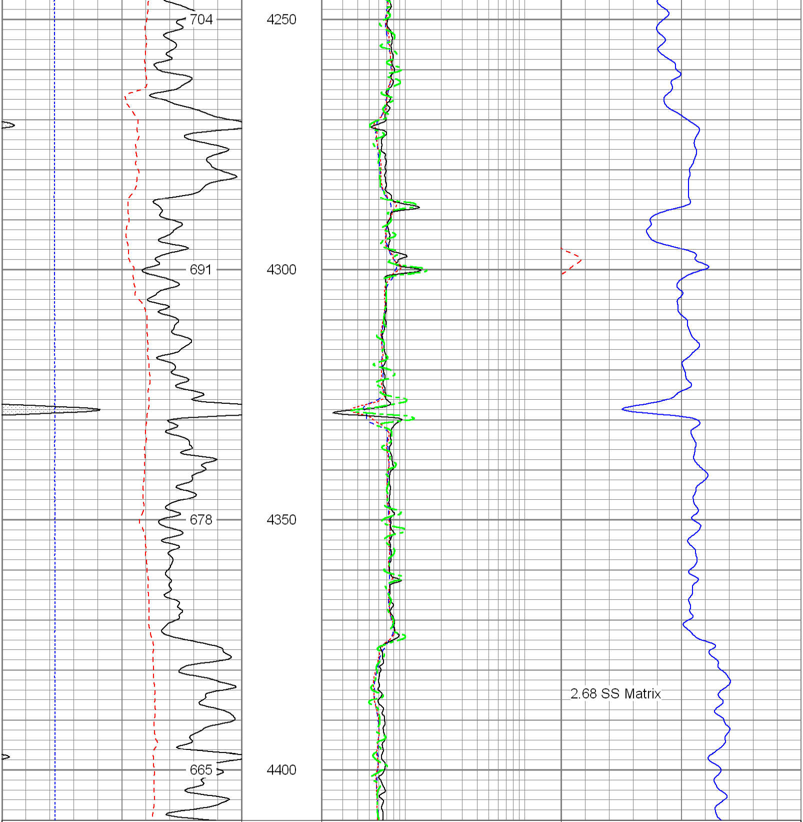

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2 Rt (Ohm-m) 200

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20 Neutron Porosity (pu) 0

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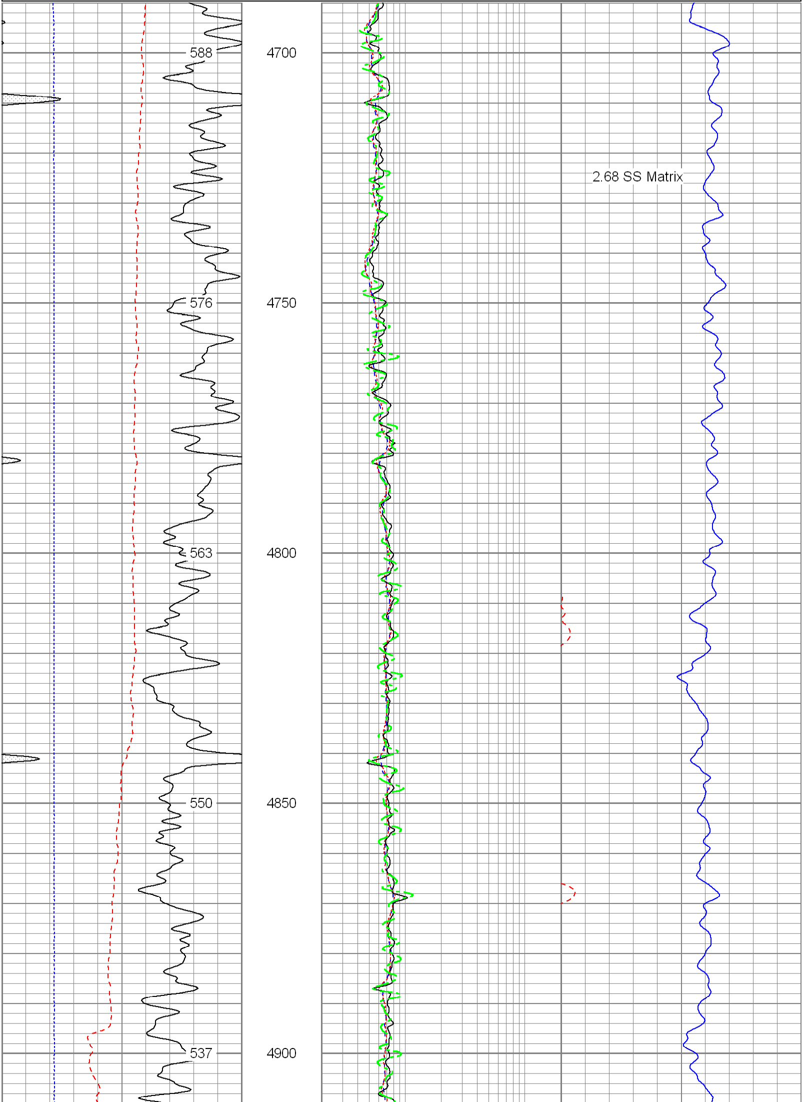

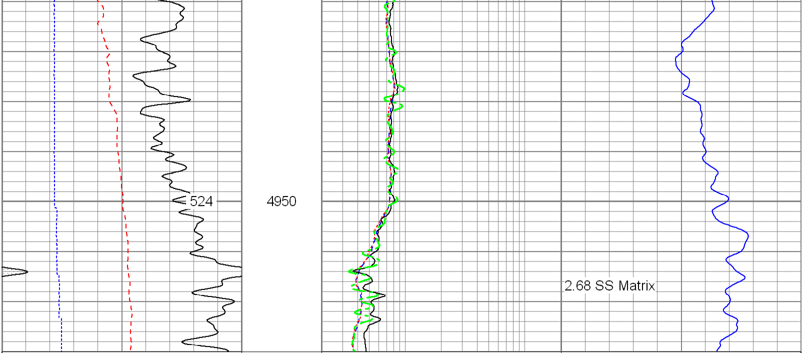

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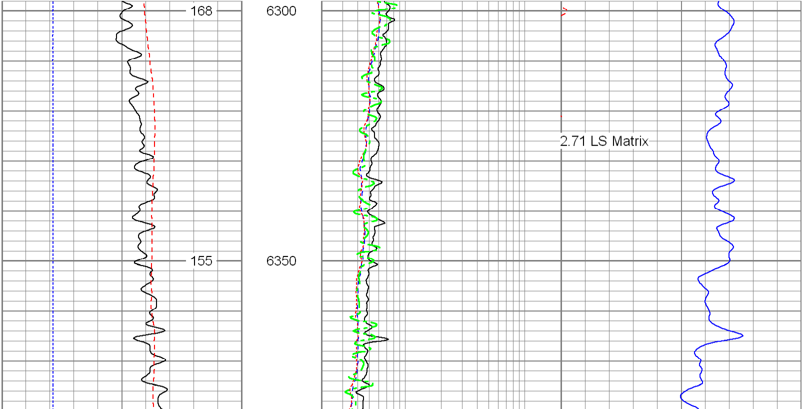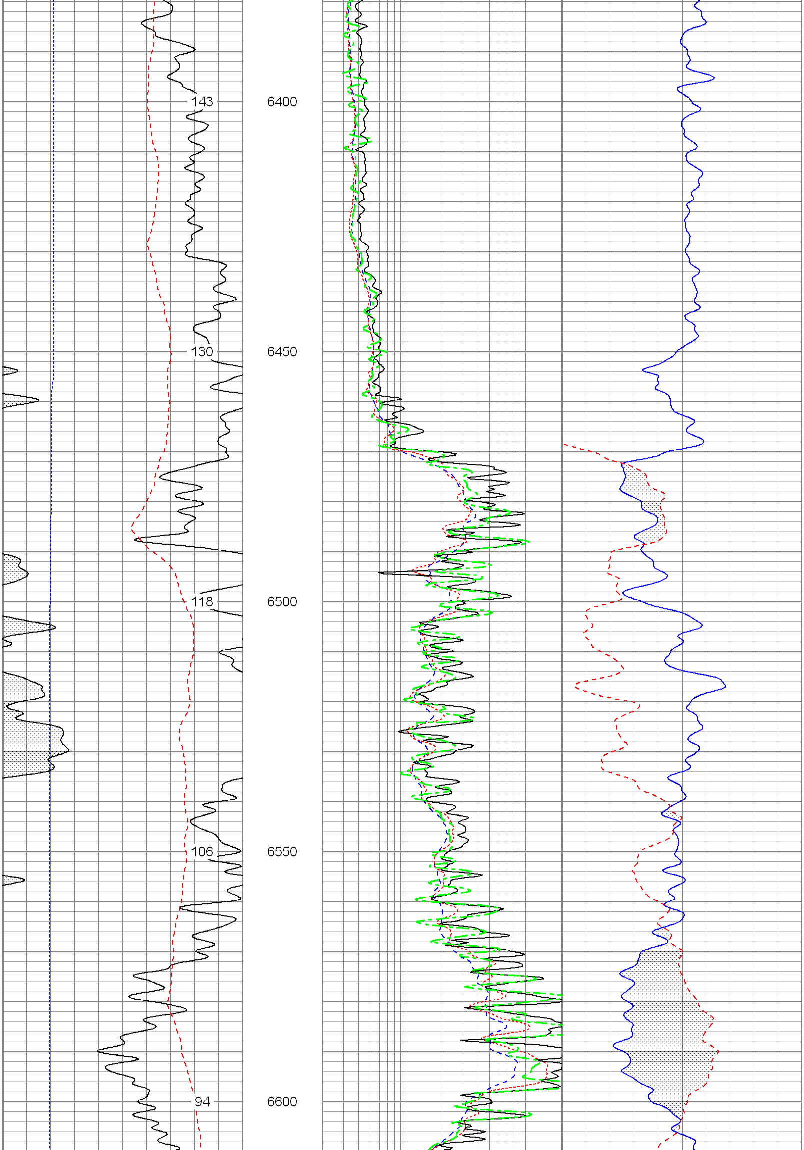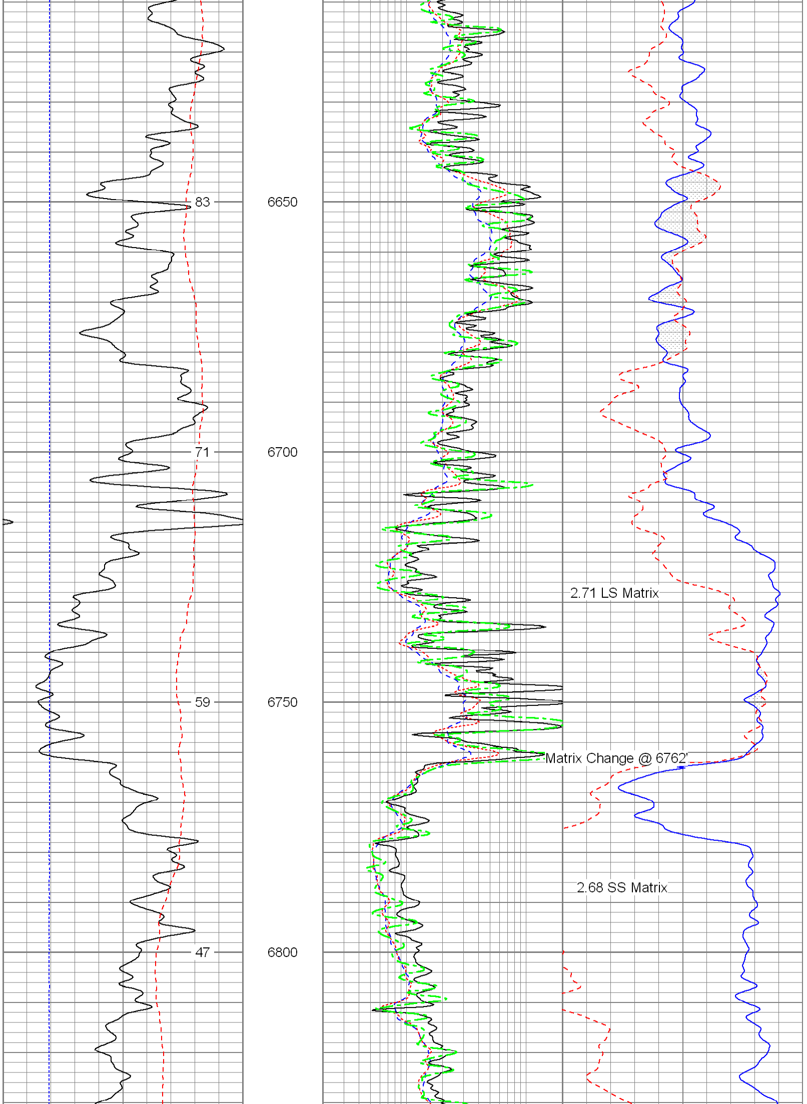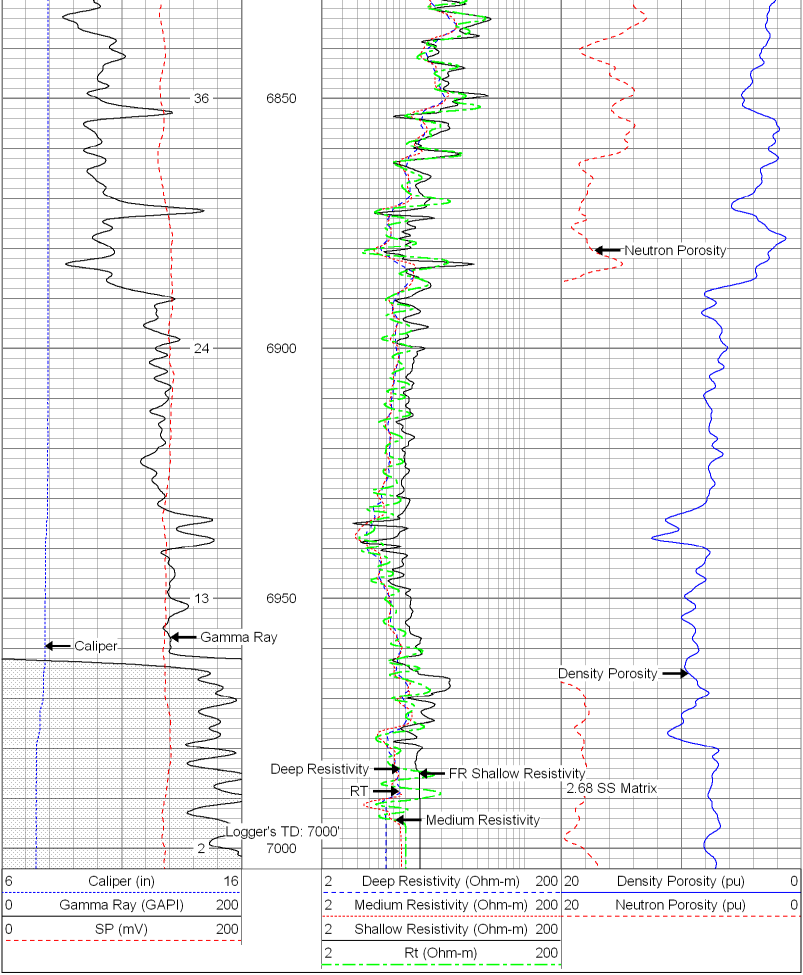6 Caliper (in) 16		2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
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