PSI
PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company	Noble Energy Inc.
Well	Smith PC D06-20D
Field	Wattenberg
County	Weld
State/Prv	Colorado

Company **Noble Energy Inc.**

Well **Smith PC D06-20D**

Field **Wattenberg**

County **Weld** State/Province **Colorado**

Location
SHL: 2519' FSL & 2333' FWL NE SW
BHL: 2525' FSL & 1324' FWL NE SW
Sec. 6, Twp. 3N, Rge. 64W

Other Services
High Resolution Induction

Elevation
K.B. 4840
D.F. 4839
G.L. 4823

Permanent Datum GL Elevation 4823
Log Measured From KB
Drilling Measured From KB

Date	February 11, 2011		
Run Number	1		
Depth Driller	7325		
Depth Logger	7324		
Bottom Logged Interval	7304		
Top Log Interval	2680		
Casing Driller	702		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.1 / 36		
pH / Fluid Loss	8.0 / 5.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.13 @ 67 F		
Rmf @ Meas. Temp	2.35 @ 67 F		
Rmc @ Meas. Temp	3.91 @ 67 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.02 @ 206 F		
Time Circulation Stopped	0830		
Time Logger on Bottom	1615		
Maximum Recorded Temperature	206 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Maciej Staron		
Witnessed By	Gary Stapleton		

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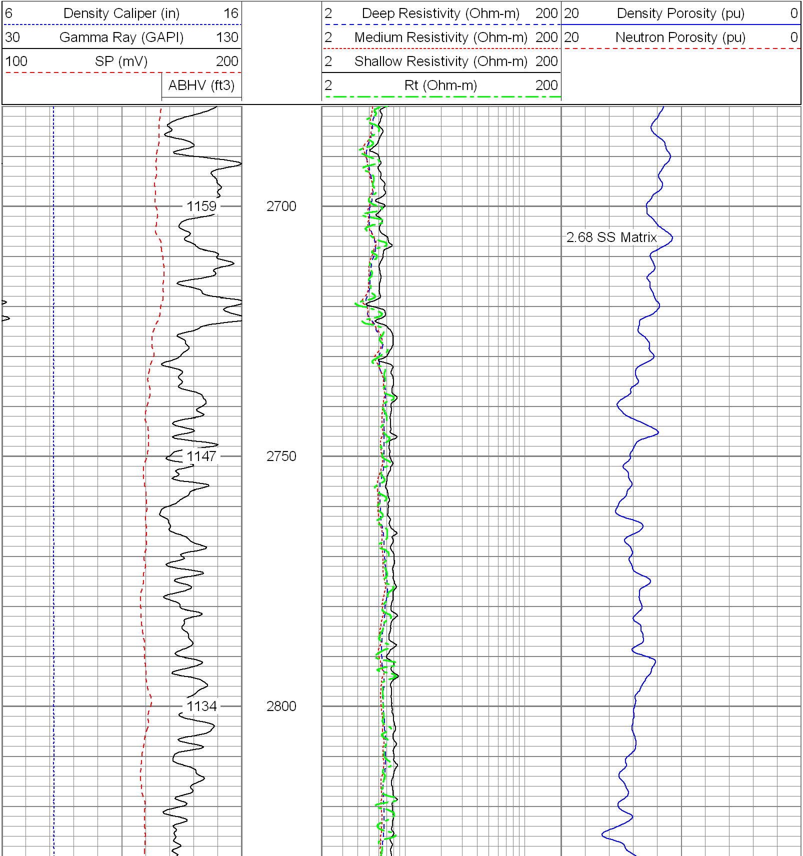
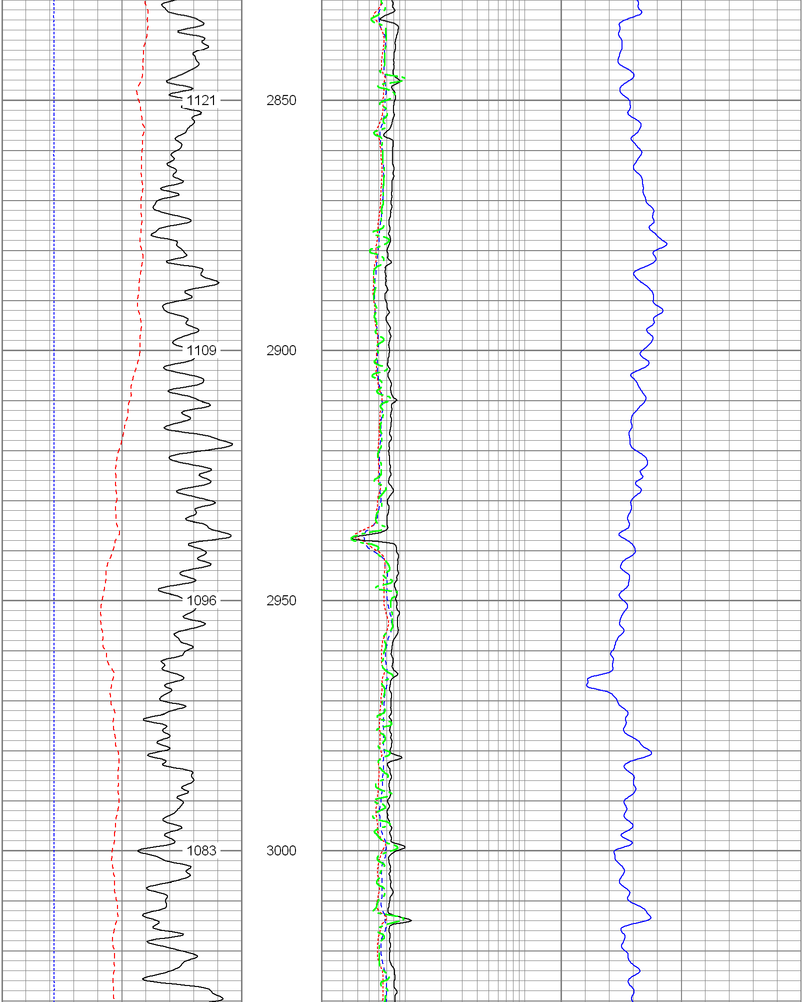
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

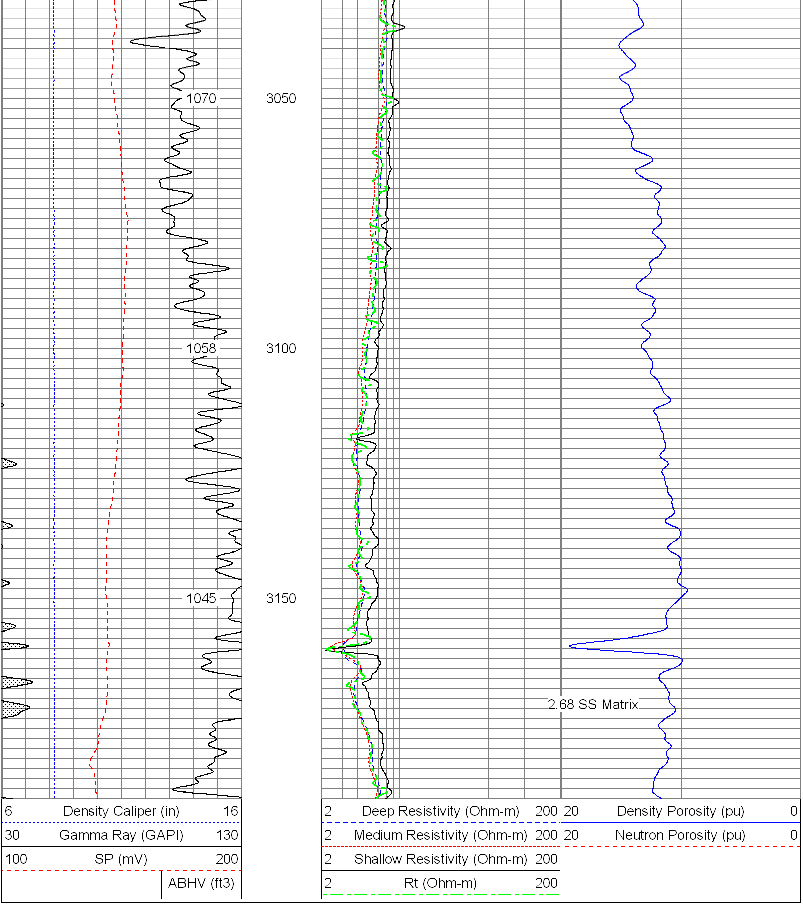
Comments

Annular volume calculated for 4.5" casing
Ensign Rig 121
Thank you for using Phoenix Surveys!!
API #: 05-123-32322-00

Database File: 11452.db
Dataset Pathname: pass3.4
Presentation Format: pdc1
Dataset Creation: Fri Feb 11 17:50:56 2011
Charted by: Depth in Feet scaled 1:240







Database File:	11452.db
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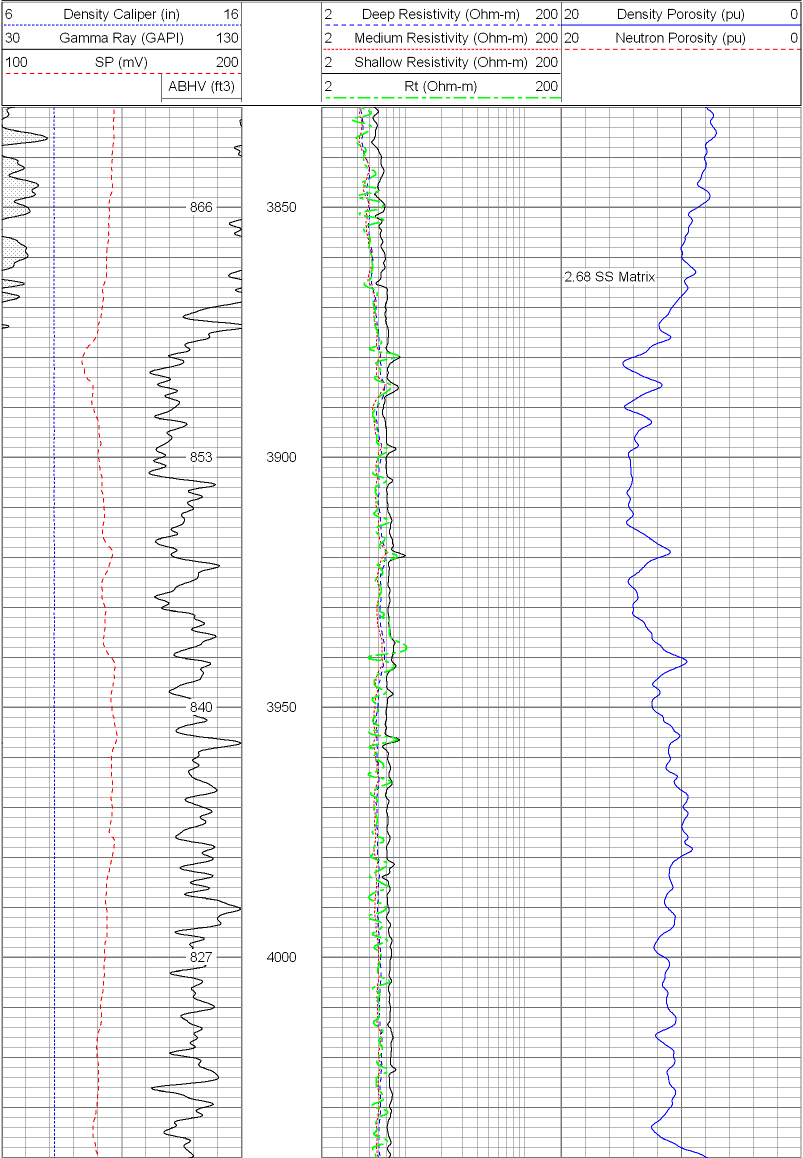
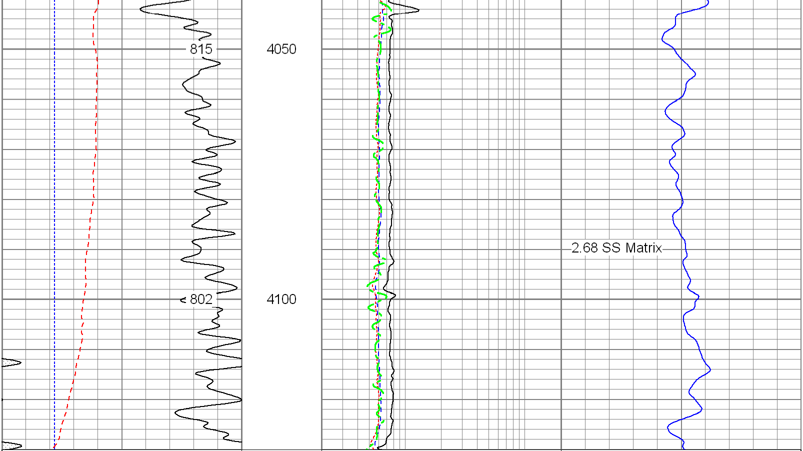
Presentation Format:	pdc1
Dataset Creation:	Fri Feb 11 17:50:56 2011
Charted by:	Depth in Feet scaled 1:240





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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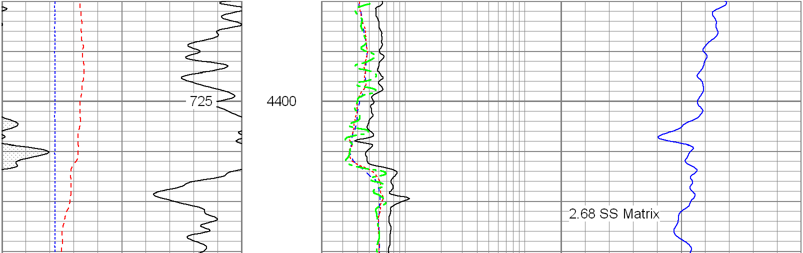

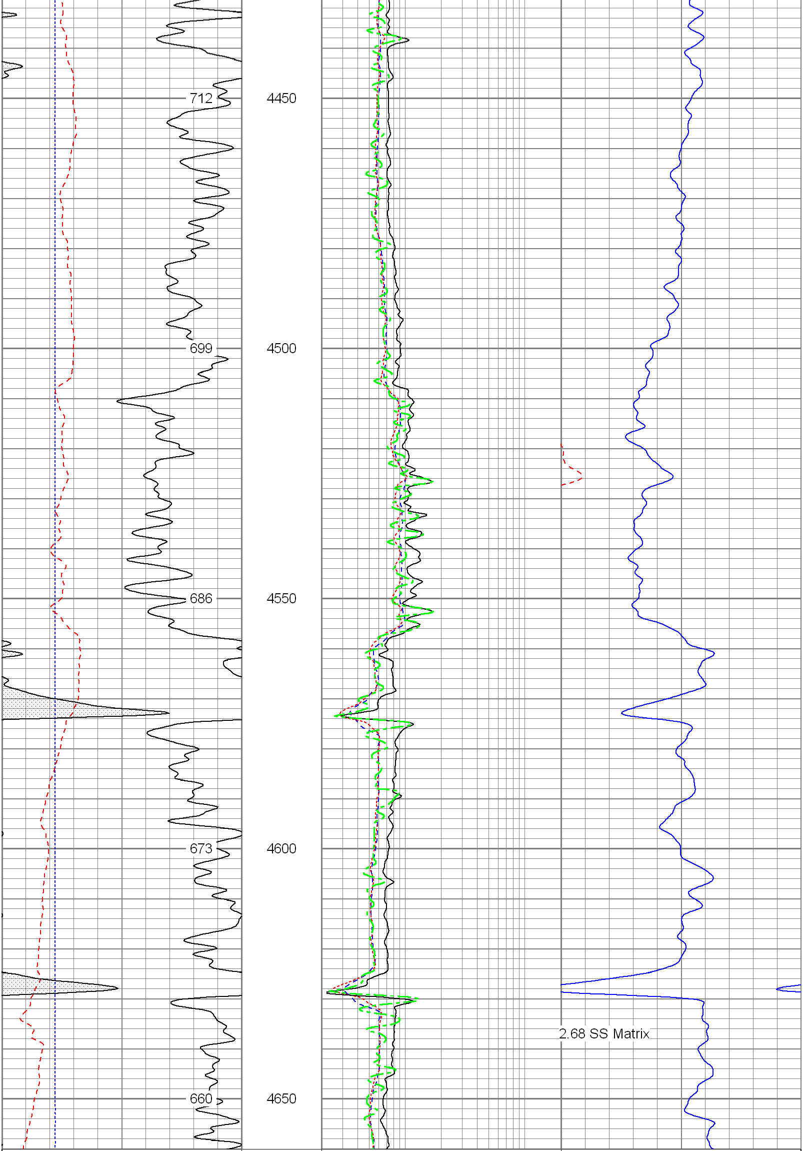

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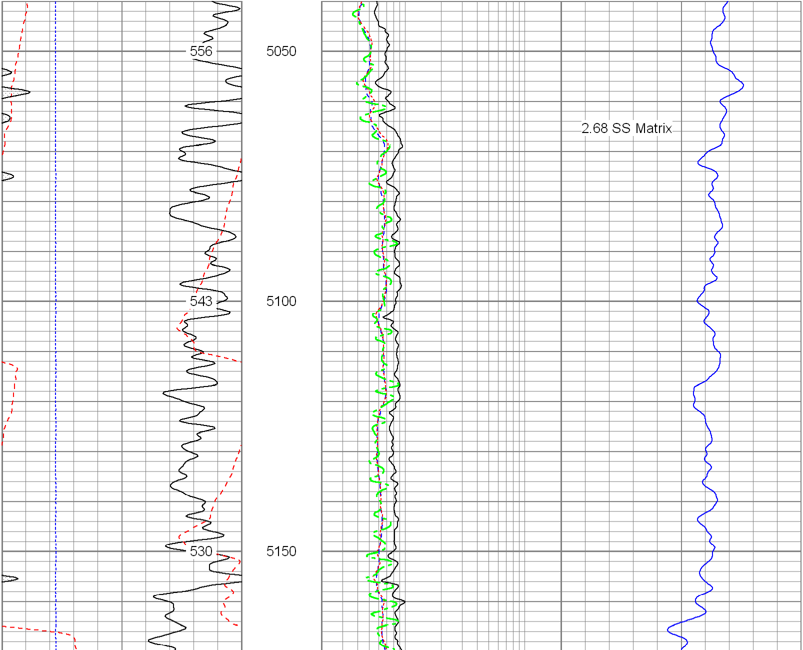

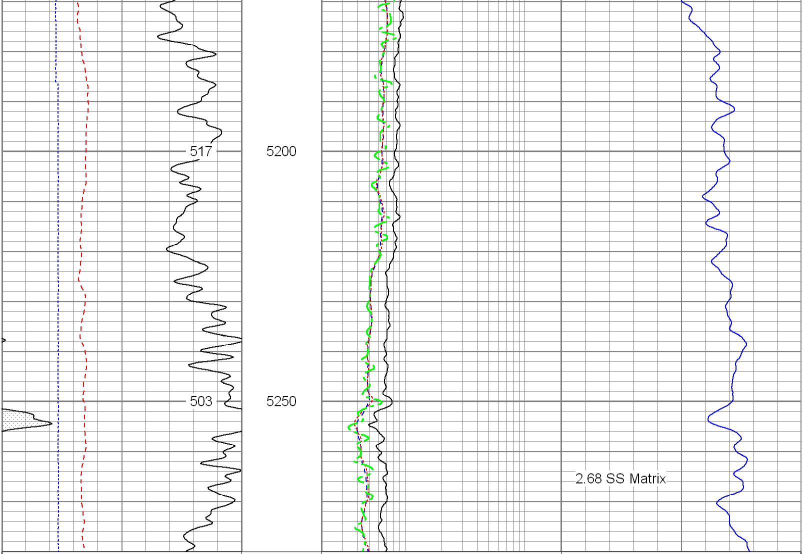

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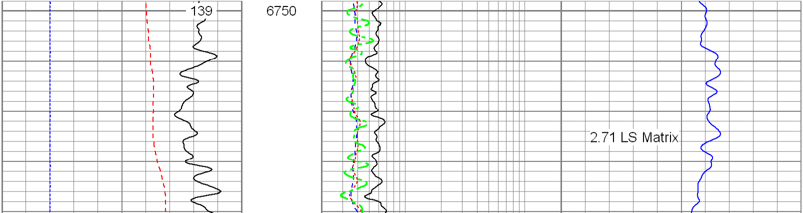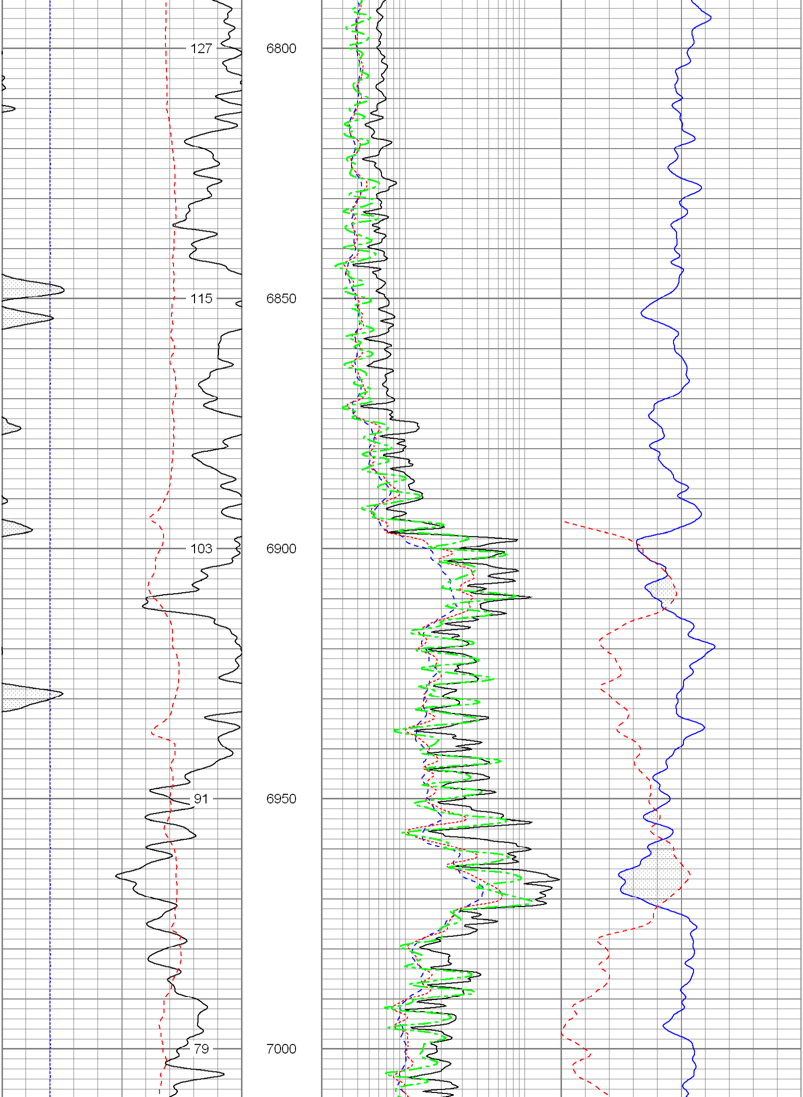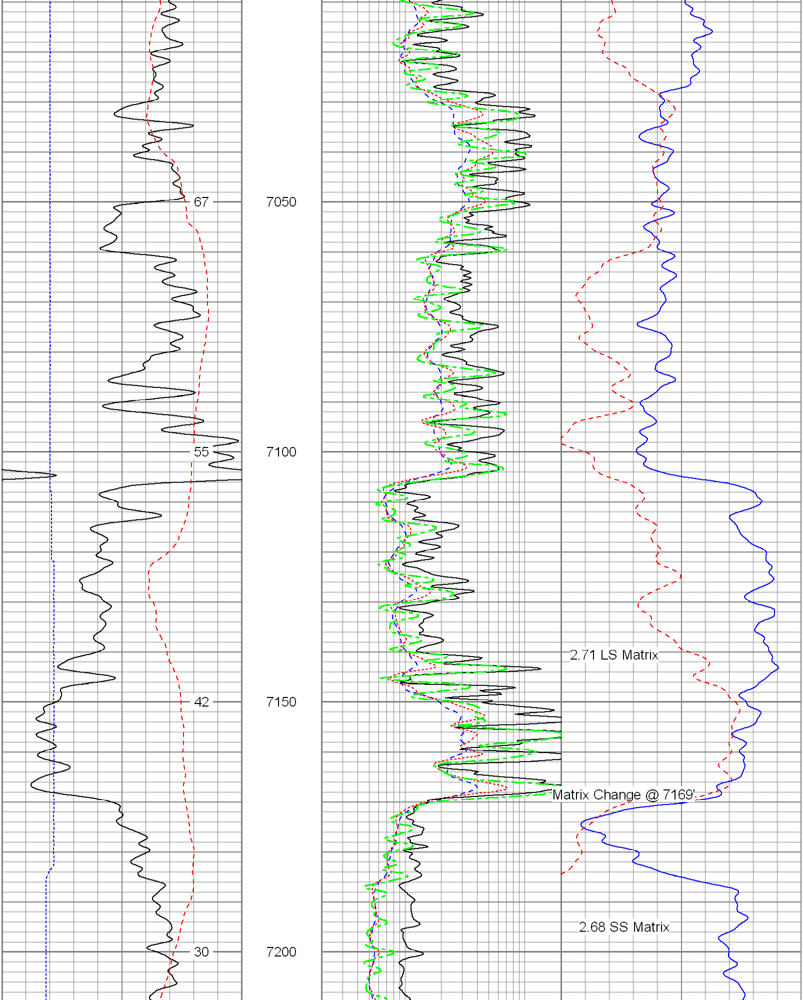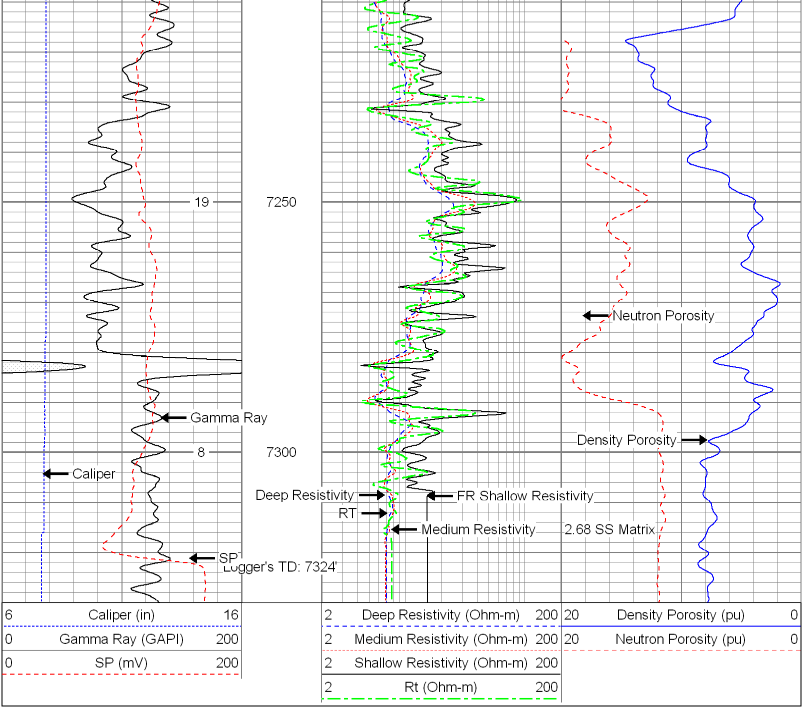6 Caliper (in) 16	2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
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