PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company	Noble Energy Inc.
Well	Kohlhoff USX AB 17-01P
Field	Wattenberg
County	Weld
State/Province	Colorado

Company
Well
Field
County
State/Prv

Location
713' FNL & 665' FEL
NE NE
Sec. 17, Twp. 7N, Rge. 64W

Other Services
Induction

Elevation
K.B. 4957
D.F. 4957
G.L. 4944

Permanent Datum	GL	Elevation	4944
Log Measured From	KB		
Drilling Measured From	KB		

Date	July 5, 2010		
Run Number	1		
Depth Driller	7352		
Depth Logger	7342		
Bottom Logged Interval	7322		
Top Log Interval	2900		
Casing Driller	815		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.3 / 40.0		
pH / Fluid Loss	9.0 / 17.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.55 @ 82° F		
Rmf @ Meas. Temp	2.61 @ 82° F		
Rmc @ Meas. Temp	4.41 @ 82° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.19 @ 202° F		
Time Circulation Stopped	1145		
Time Logger on Bottom	1800		
Maximum Recorded Temperature	202° F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Ian Harris		
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

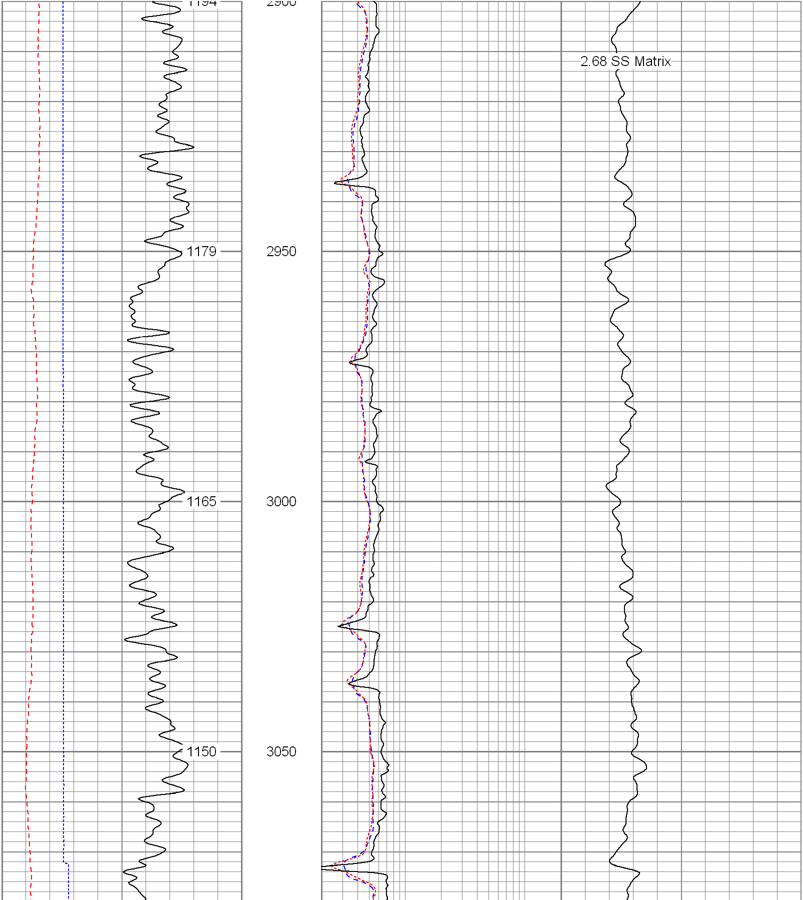
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 126
Thank you for using Phoenix Surveys!!
API #: 05-123-31198-00

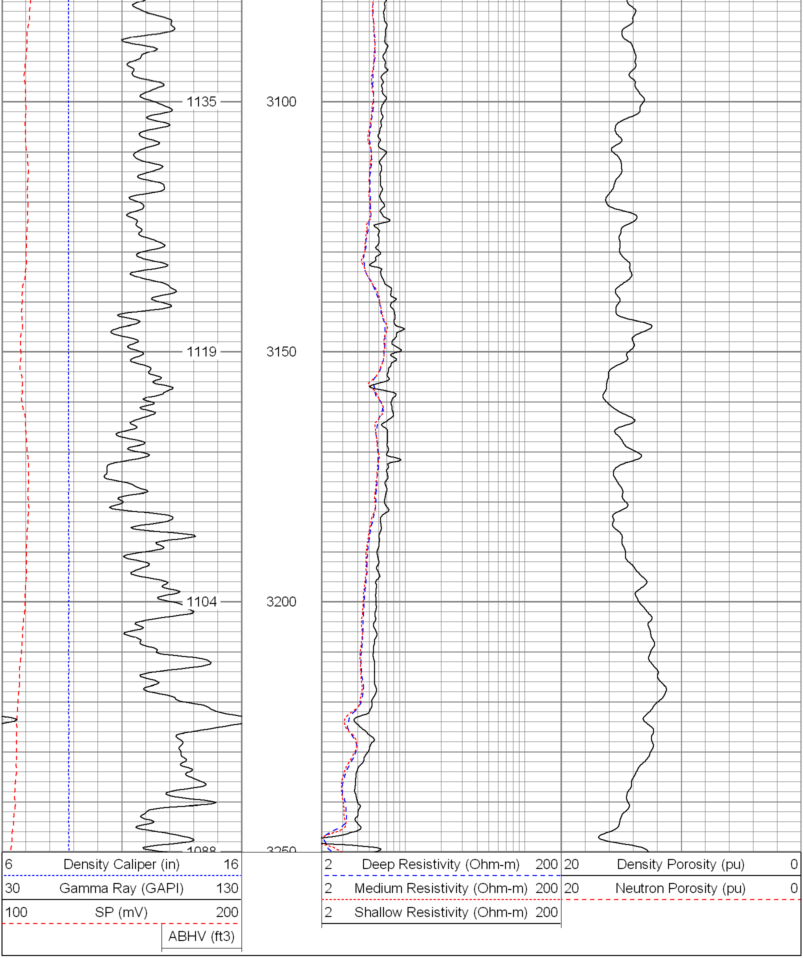
Database File: 10747.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Mon Jul 05 19:26:26 2010
Charted by: Depth in Feet scaled 1:240

6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
100 SP (mV) 200
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





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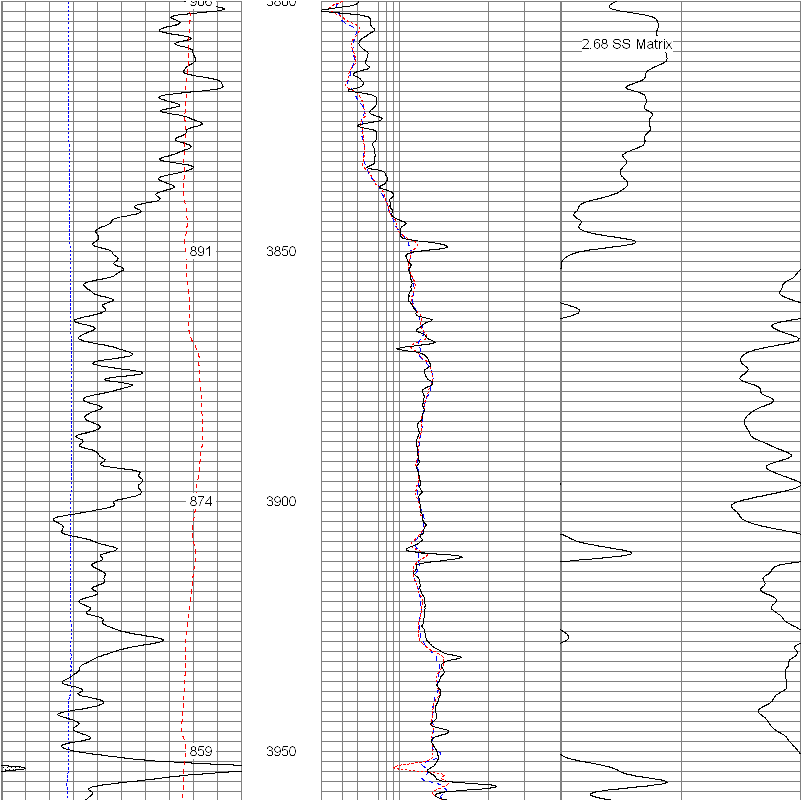
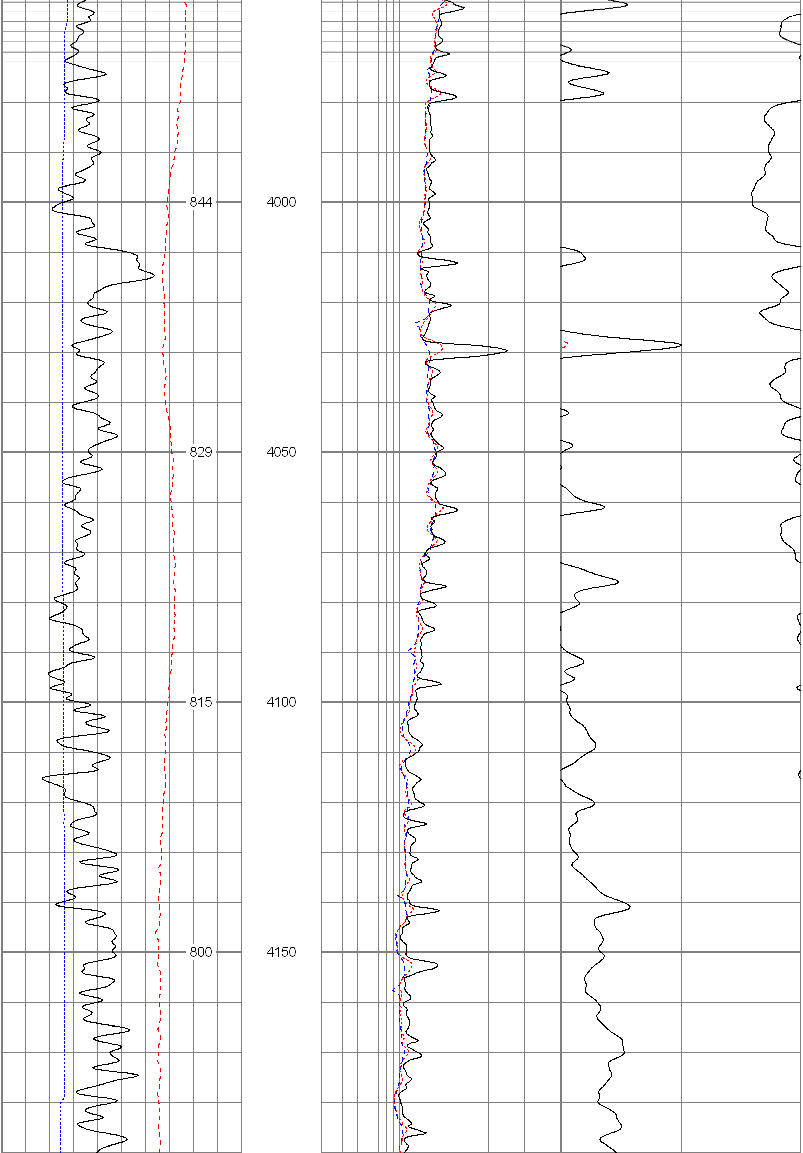
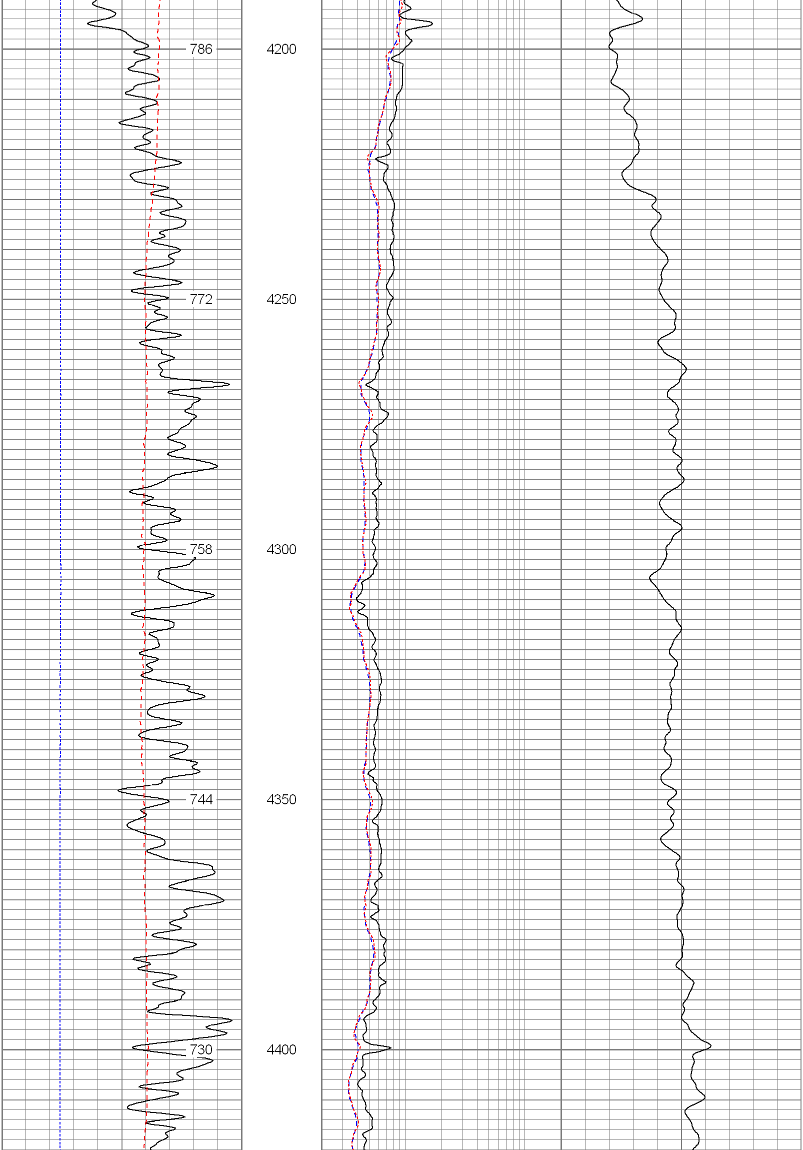
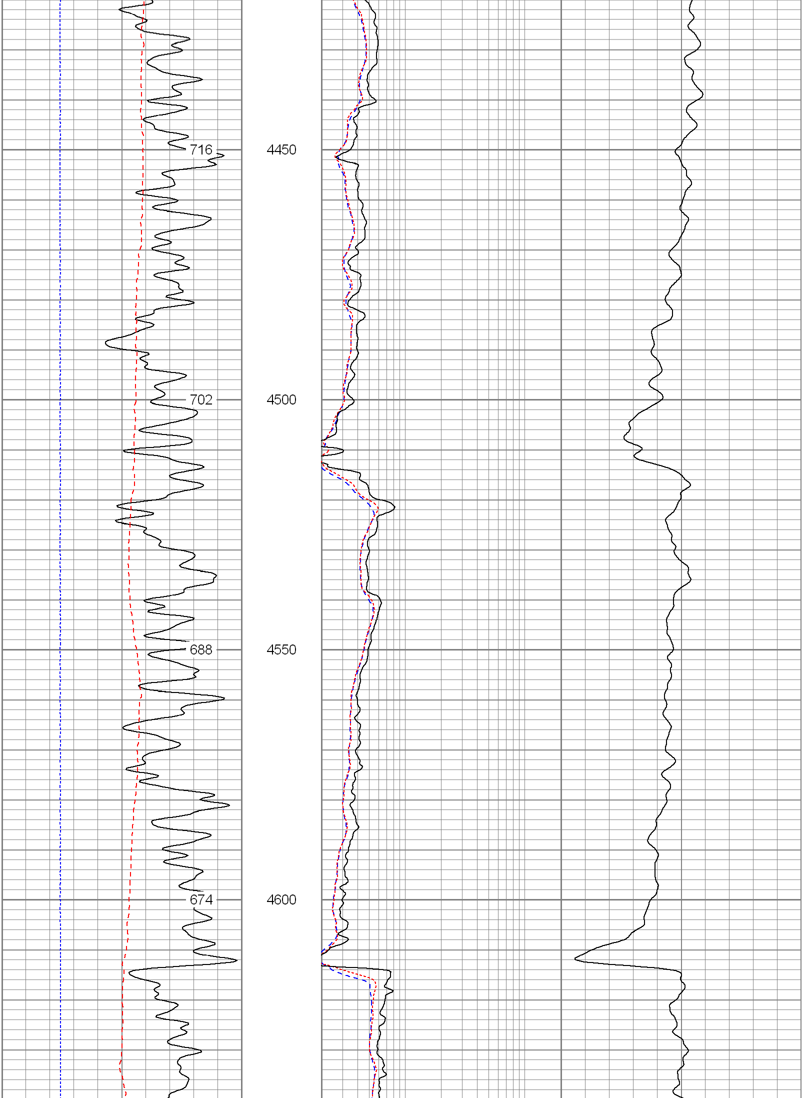
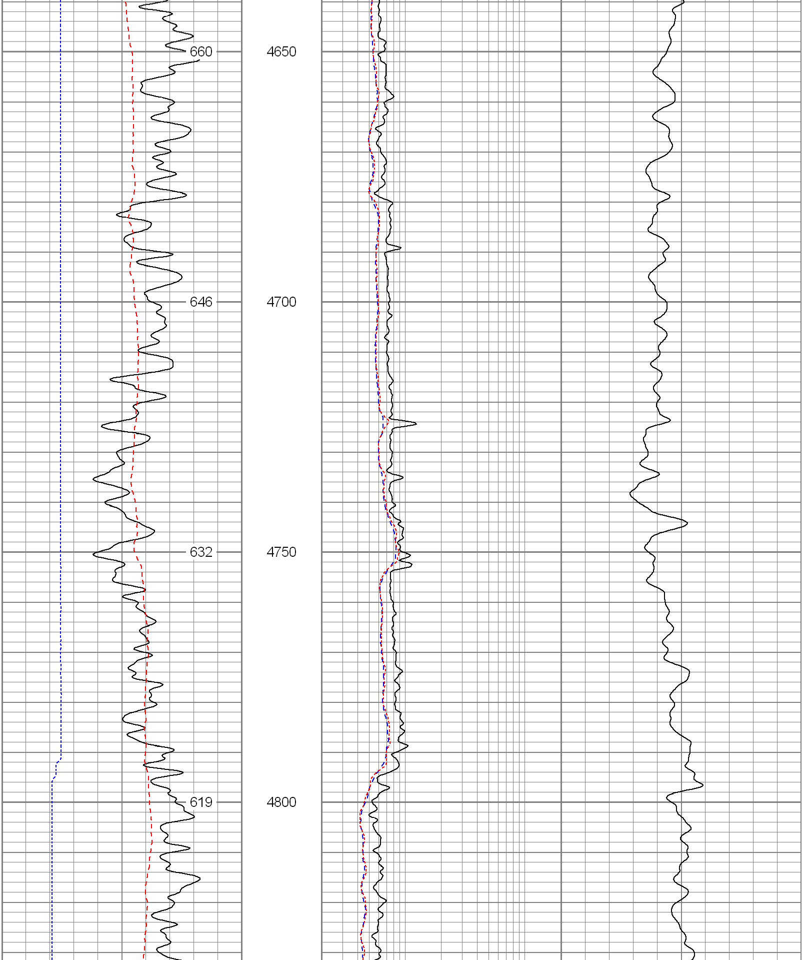
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

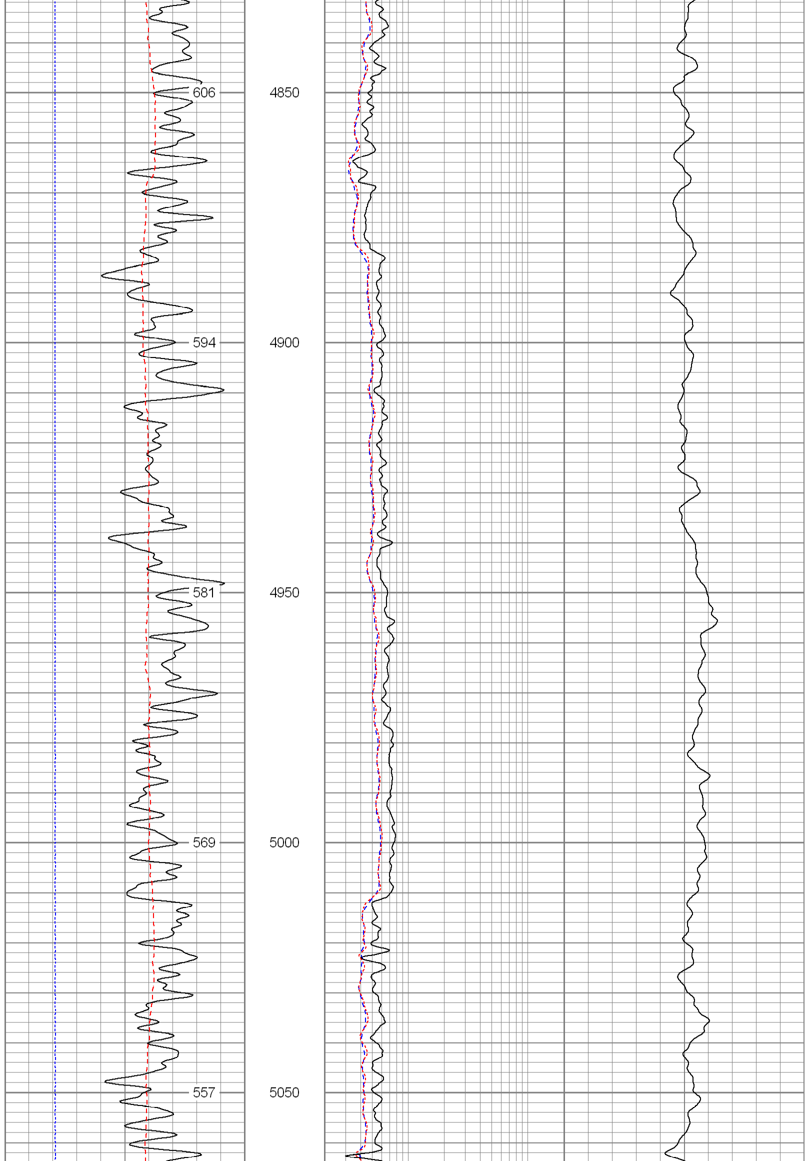


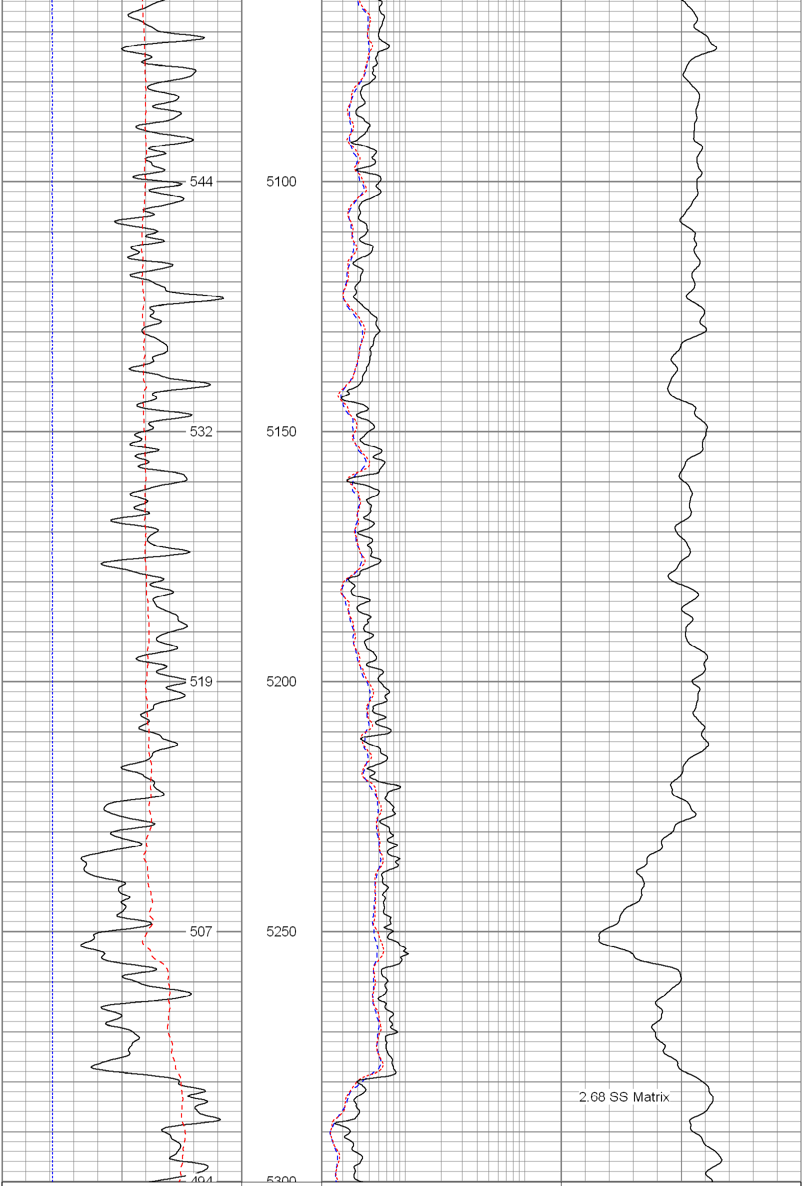






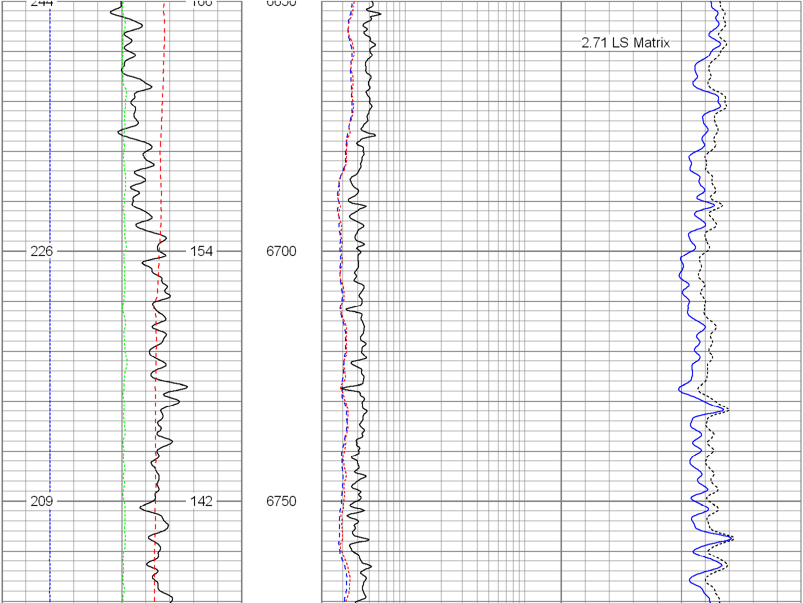
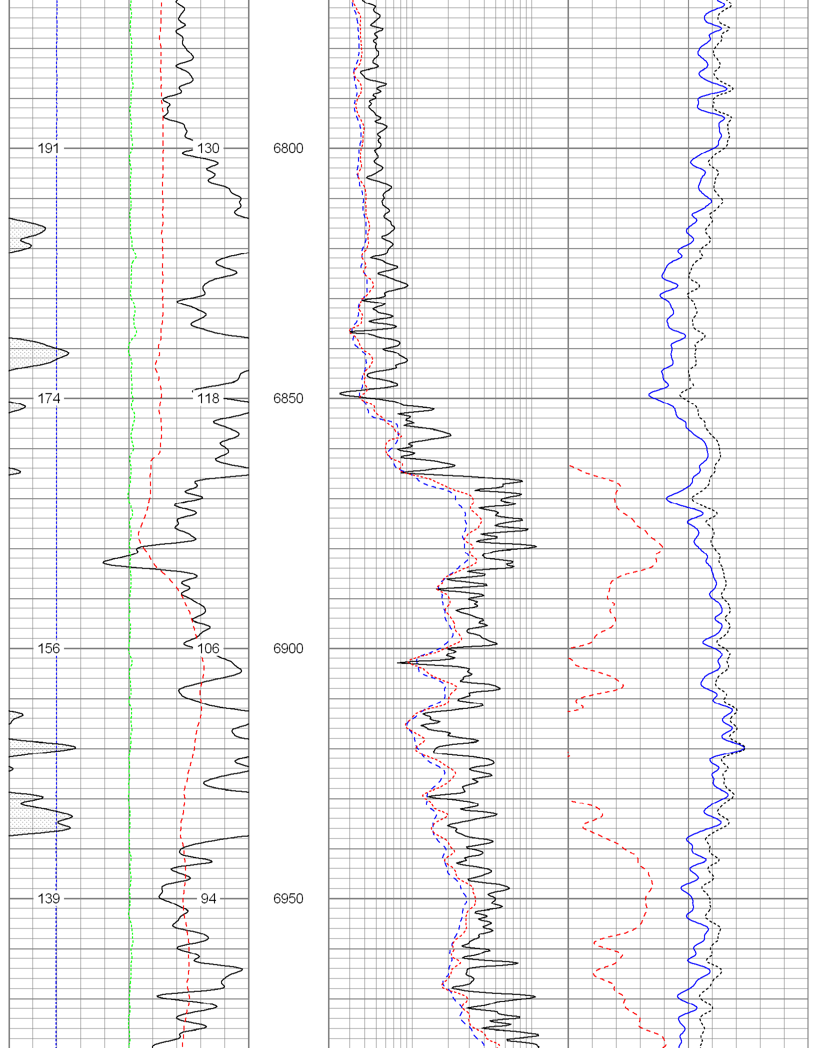
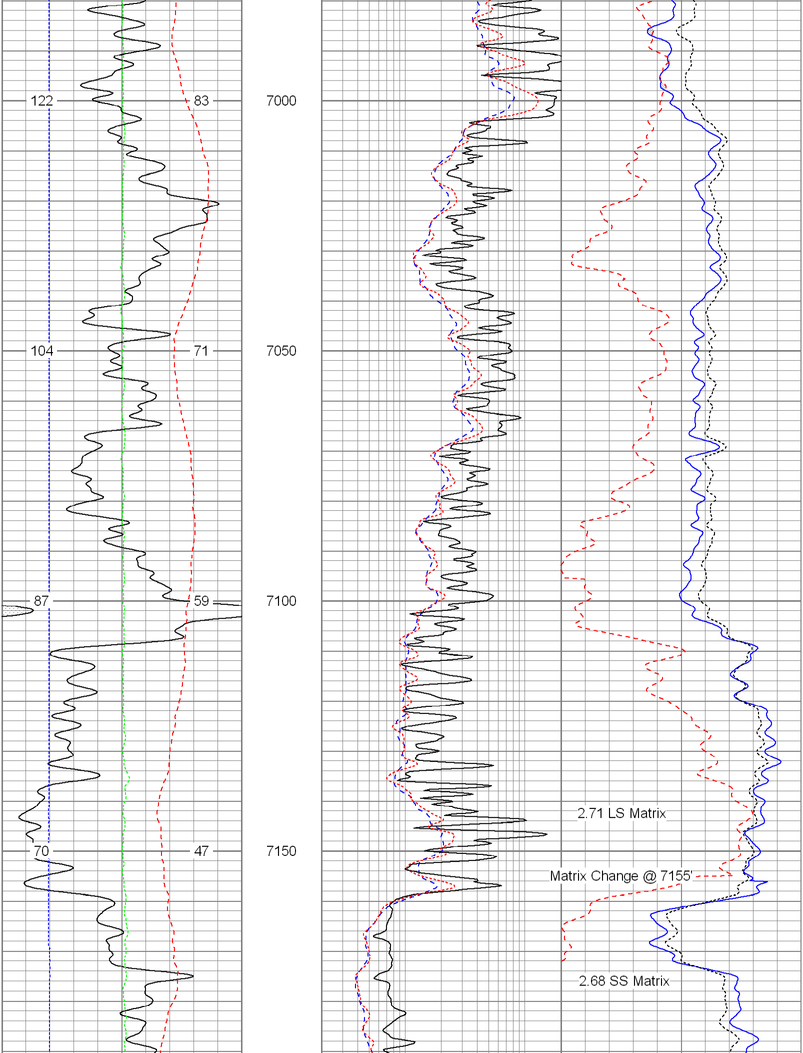
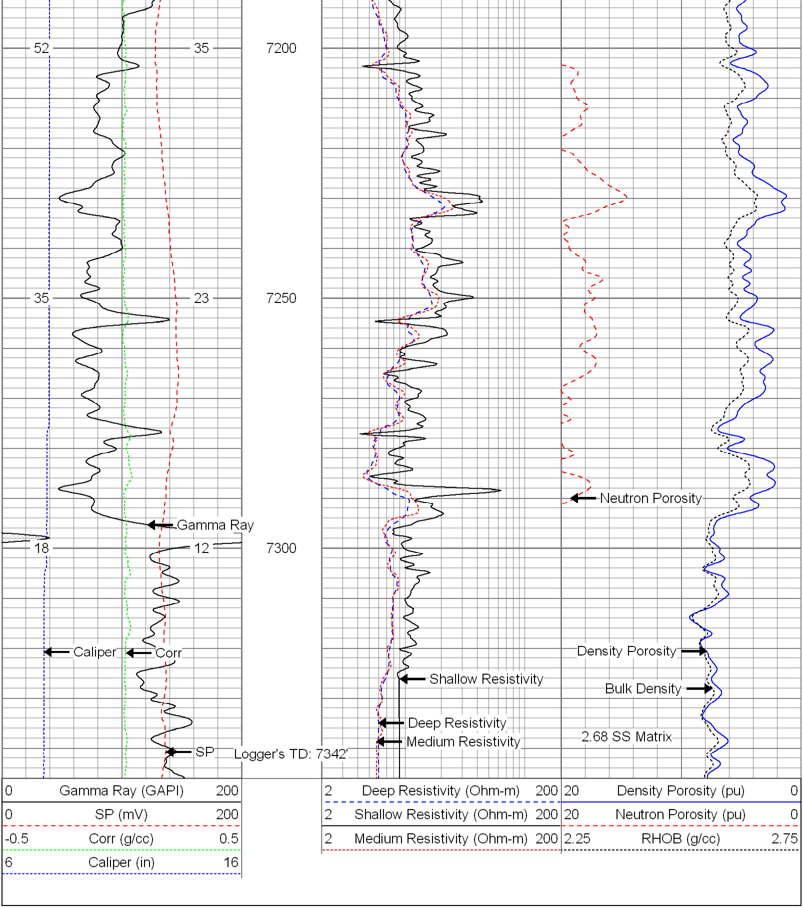






6	Density Caliper (in)	16
30	Gamma Ray (GAPI)	130
100	SP (mV)	200
	ABHV (ft3)	
2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200
20	Density Porosity (pu)	0
20	Neutron Porosity (pu)	0

Database File:	10747.db
Dataset Pathname:	main
Presentation Format:	split20
Dataset Creation:	Mon Jul 05 18:55:54 2010
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200
0	SP (mV)	200
-0.5	Corr (g/cc)	0.5
6	Caliper (in)	16
2	Deep Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
20	Density Porosity (pu)	0
20	Neutron Porosity (pu)	0
2.25	RHOB (g/cc)	2.75