PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company
Well
Field
County
State/Prv

Company	Noble Energy Inc.
Well	Bashor PC AA 09-22
Field	Wattenberg
County	Weld
State/Province	Colorado

Location
2580' FSL & 1350' FEL
NW SE
Sec. 9, Twp. 6N, Rge. 63W

Other Services
High
Resolution
Induction

Elevation
K.B. 4704
D.F. 4703
G.L. 4690

Permanent Datum GL Elevation 4690
Log Measured From KB
Drilling Measured From KB

Date	February 28, 2011		
Run Number	1		
Depth Driller	6920		
Depth Logger	6913		
Bottom Logged Interval	6893		
Top Log Interval	2640		
Casing Driller	577		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	8.6 / 26		
pH / Fluid Loss	8.0 / NC		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.99 @ 70 F		
Rmf @ Meas. Temp	2.25 @ 70 F		
Rmc @ Meas. Temp	3.73 @ 70 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.03 @ 203 F		
Time Circulation Stopped	1230		
Time Logger on Bottom	2100		
Maximum Recorded Temperature	203 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Maciej Staron		
Witnessed By	Steve Biggs		

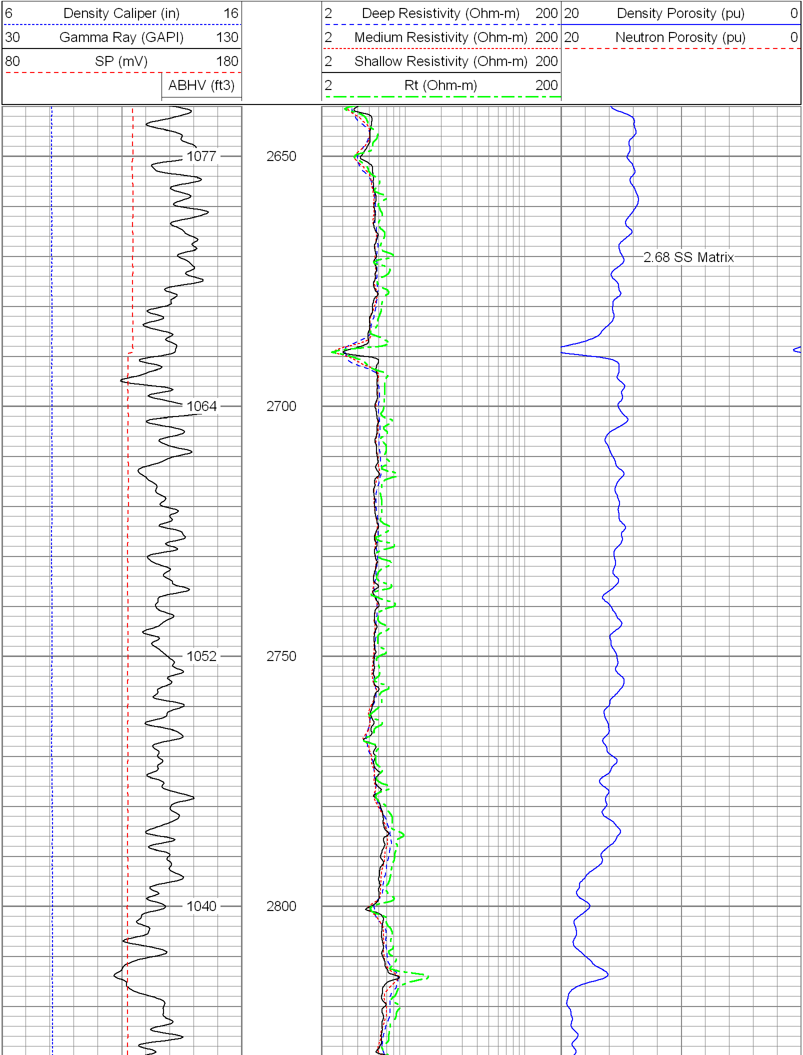
<<< Fold Here >>>

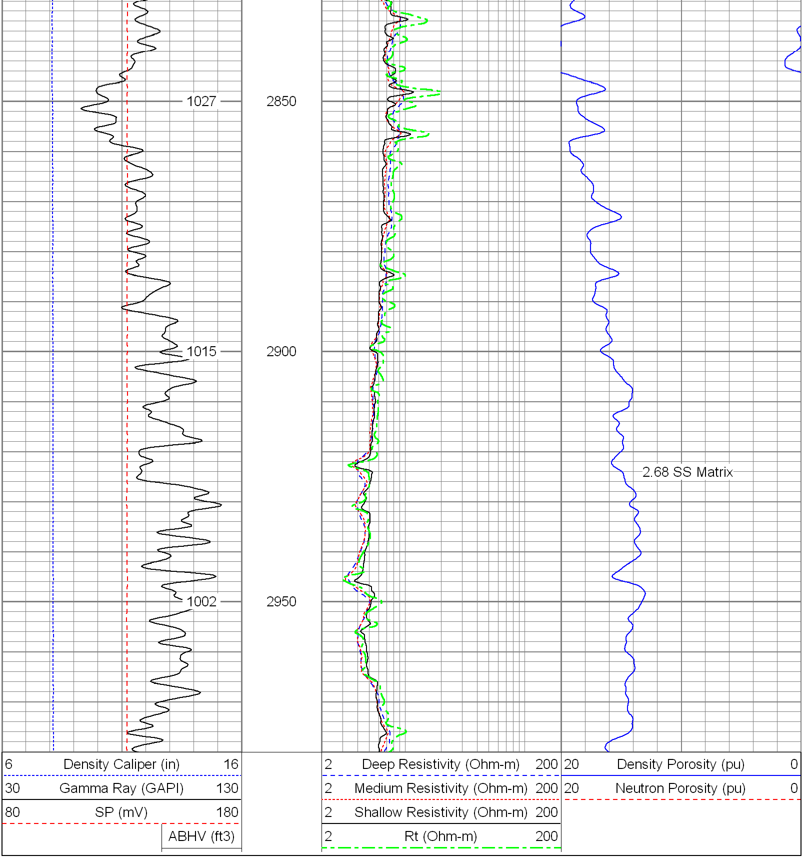
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

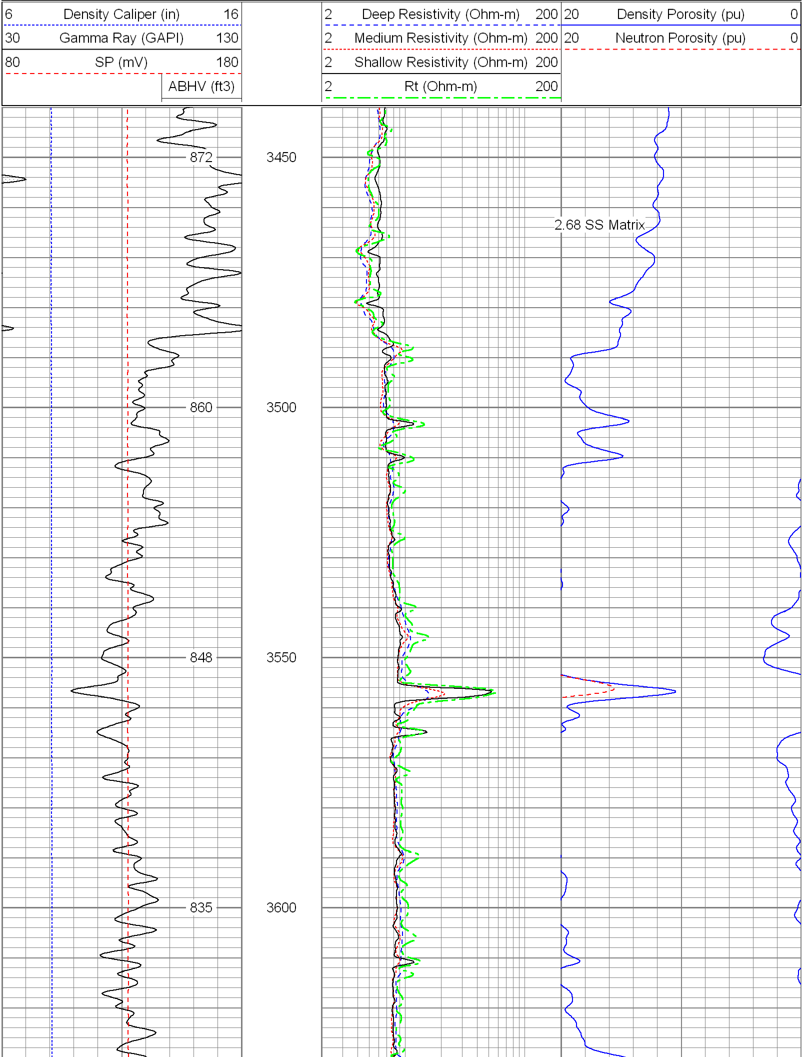
Annular volume calculated for 4.5" casing
Cade Rig 22
Thank you for using Phoenix Surveys!!
API #: 05-123-32643-00

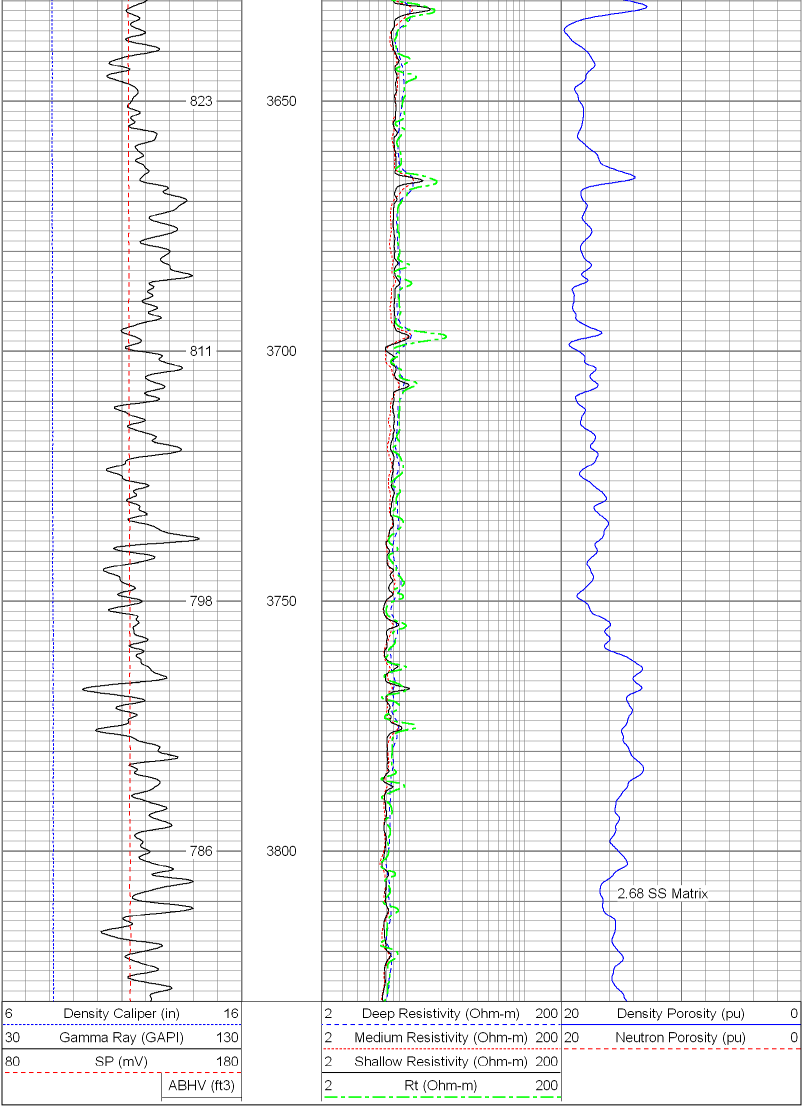
Database File:	11444.db
Dataset Pathname:	main
Presentation Format:	pdc1
Dataset Creation:	Mon Feb 28 23:20:46 2011
Charted by:	Depth in Feet scaled 1:240





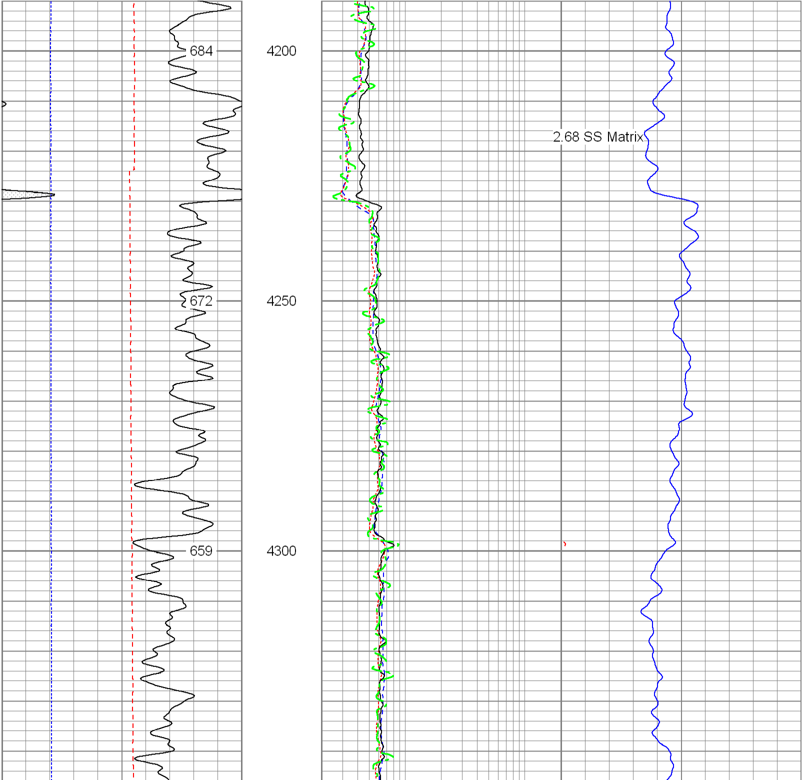
Database File:	11444.db
Dataset Pathname:	main
Presentation Format:	pdc1
Dataset Creation:	Mon Feb 28 23:20:46 2011
Charted by:	Depth in Feet scaled 1:240

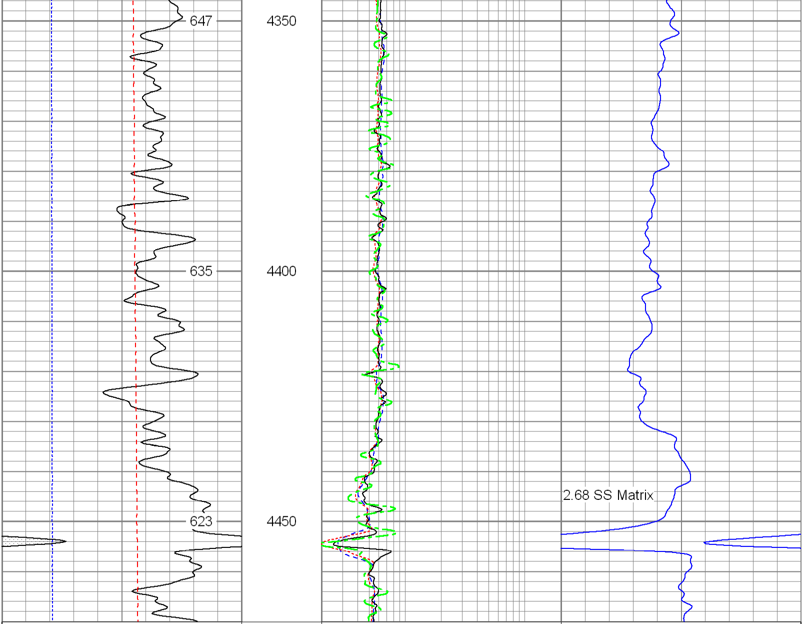




Database File:	11444.db
Dataset Pathname:	main
Presentation Format:	pdc1
Dataset Creation:	Mon Feb 28 23:20:46 2011
Charted by:	Depth in Feet scaled 1:240

Left	Curve	Right
6	Density Caliper (in)	16
30	Gamma Ray (GAPI)	130
80	SP (mV)	180
	ABHV (ft3)	
2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200
2	Rt (Ohm-m)	200
20	Density Porosity (pu)	0
20	Neutron Porosity (pu)	0

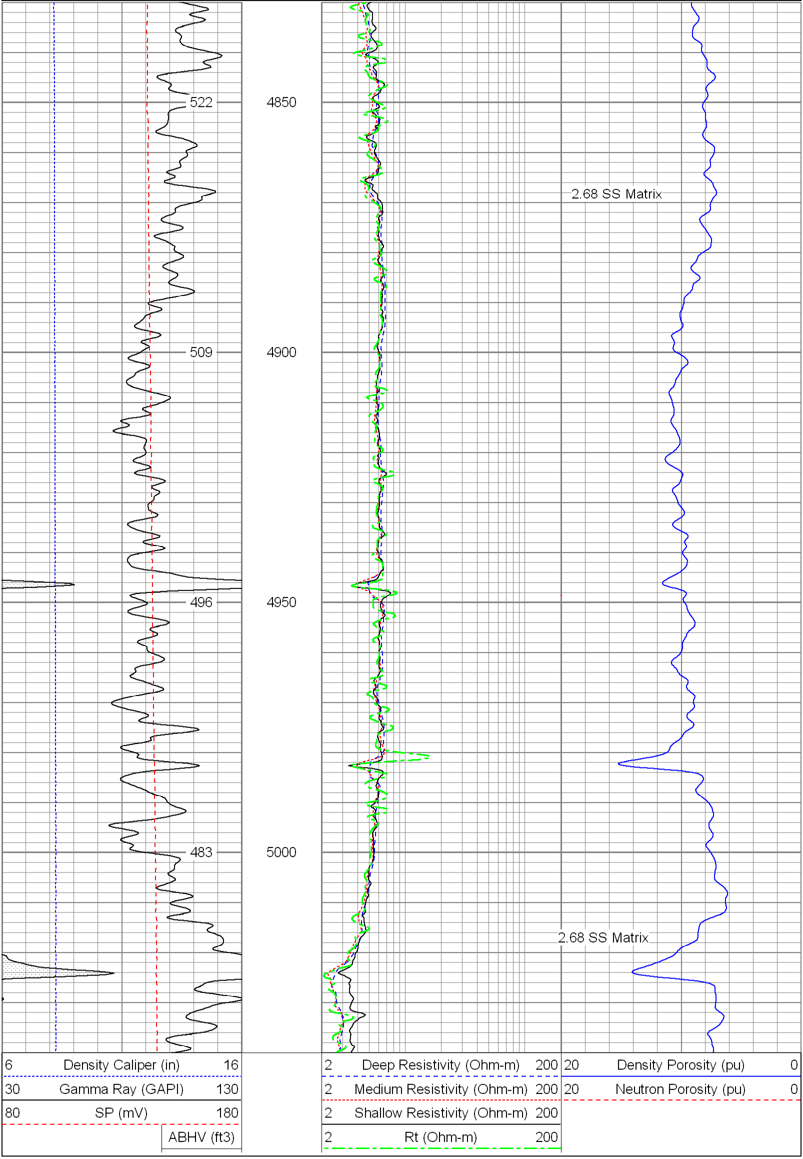




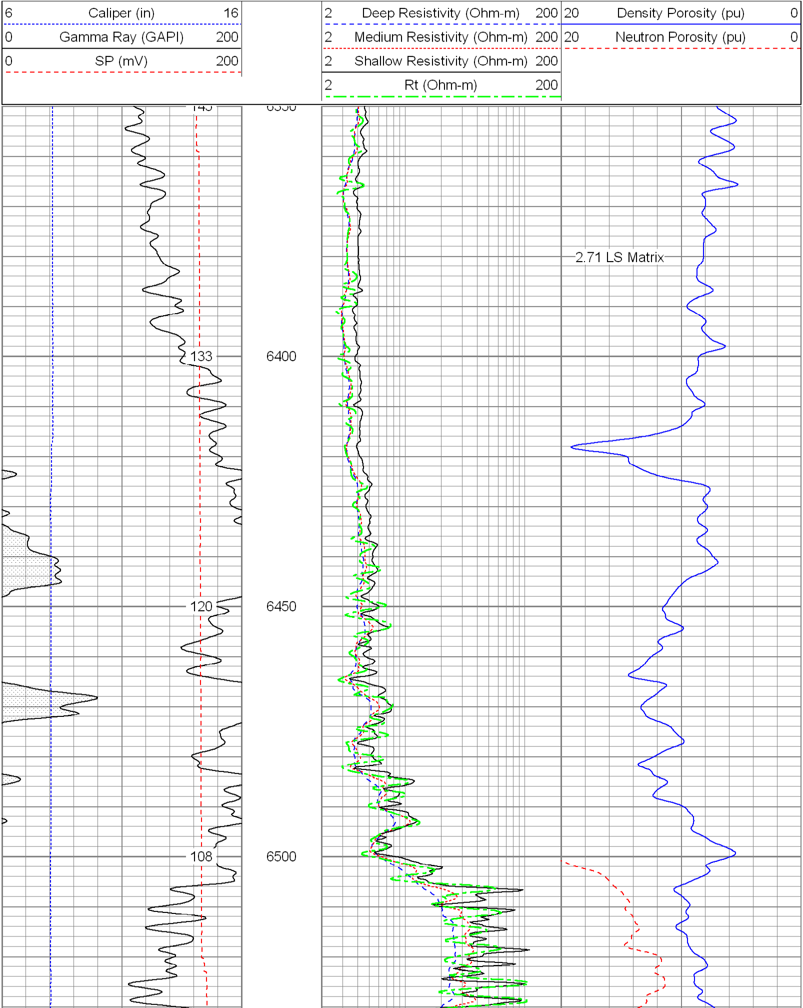
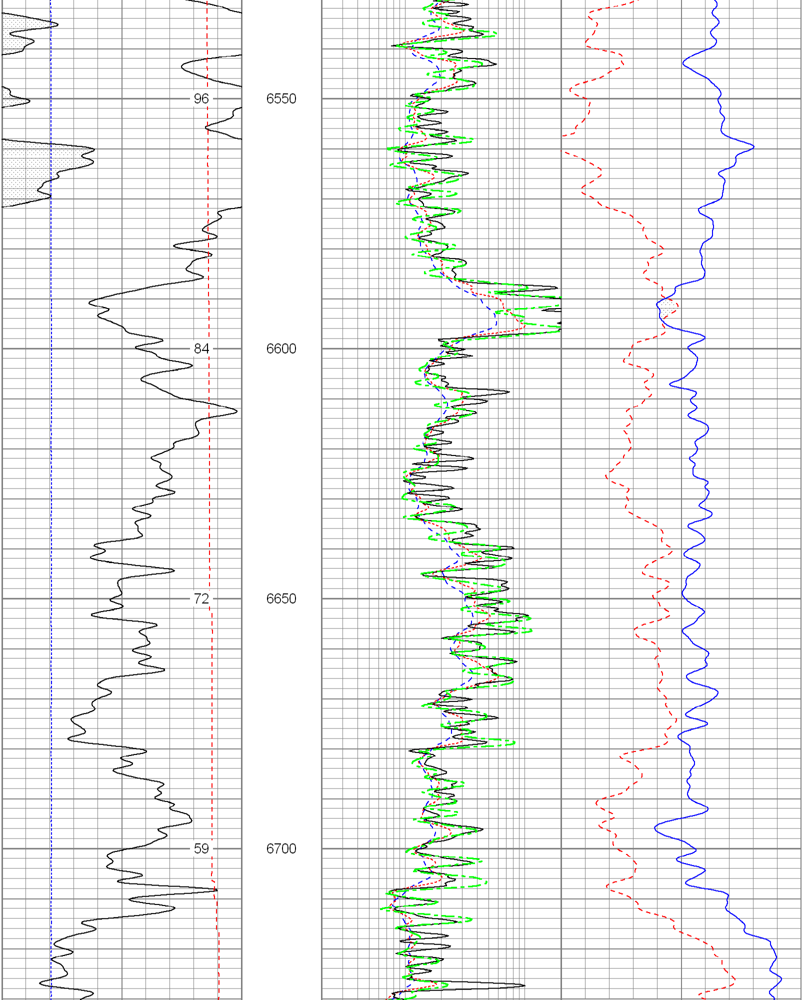
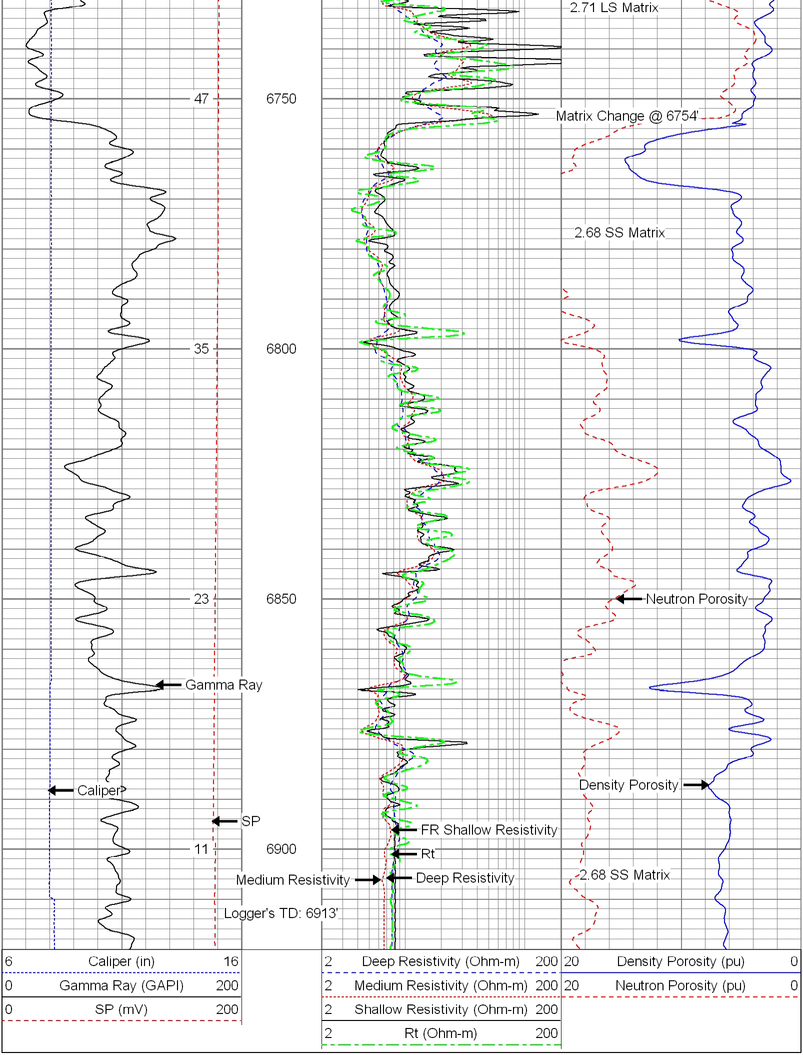
6 Density Caliper (in) 16	2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
30 Gamma Ray (GAPI) 130	2 Medium Resistivity (Ohm-m) 200	20 Neutron Porosity (pu) 0
80 SP (mV) 180	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)	2 Rt (Ohm-m) 200	

Database File:	11444.db
Dataset Pathname:	main
Presentation Format:	pdc1
Dataset Creation:	Mon Feb 28 23:20:46 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
80 SP (mV) 180	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)	2 Rt (Ohm-m) 200	



Database File:	11444.db
Dataset Pathname:	main
Presentation Format:	pdc
Dataset Creation:	Mon Feb 28 23:20:46 2011
Charted by:	Depth in Feet scaled 1:240


6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
133
6400
2.71 LS Matrix
120
6450
108
6500