PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION

Company
Well
Field
County
State/Prv

Company Noble Energy Inc.
Well Marley C 01-24 D
Field Wattenberg
County Weld **State/Province** Colorado

Location
SHL: 1980' FSL & 613' FWL NESW
BHL: 1245' FSL & 2500' FEL SWSE
Sec - 1, Twp - 4N, Rge - 64W

Other Services
Density
Neutron
Micrlog

Permanent Datum	GL	Elevation	4611
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4625
D.F. 4624
G.L. 4611

Date	January 8, 2012		
Run Number	1		
Depth Driller	7360		
Depth Logger	7357		
Bottom Logged Interval	7357		
Top Log Interval	Casing		
Casing Driller	696		
Casing Logger	696		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.2 / 39		
pH / Fluid Loss	8.0 / 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.10 @ 65 F		
Rmf @ Meas. Temp	2.48 @ 65 F		
Rmc @ Meas. Temp	3.72 @ 65 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	0.87 @ 208 F		
Time Circulation Stopped	1215		
Time Logger on Bottom	1945		
Maximum Recorded Temperature	208 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Mike M.		

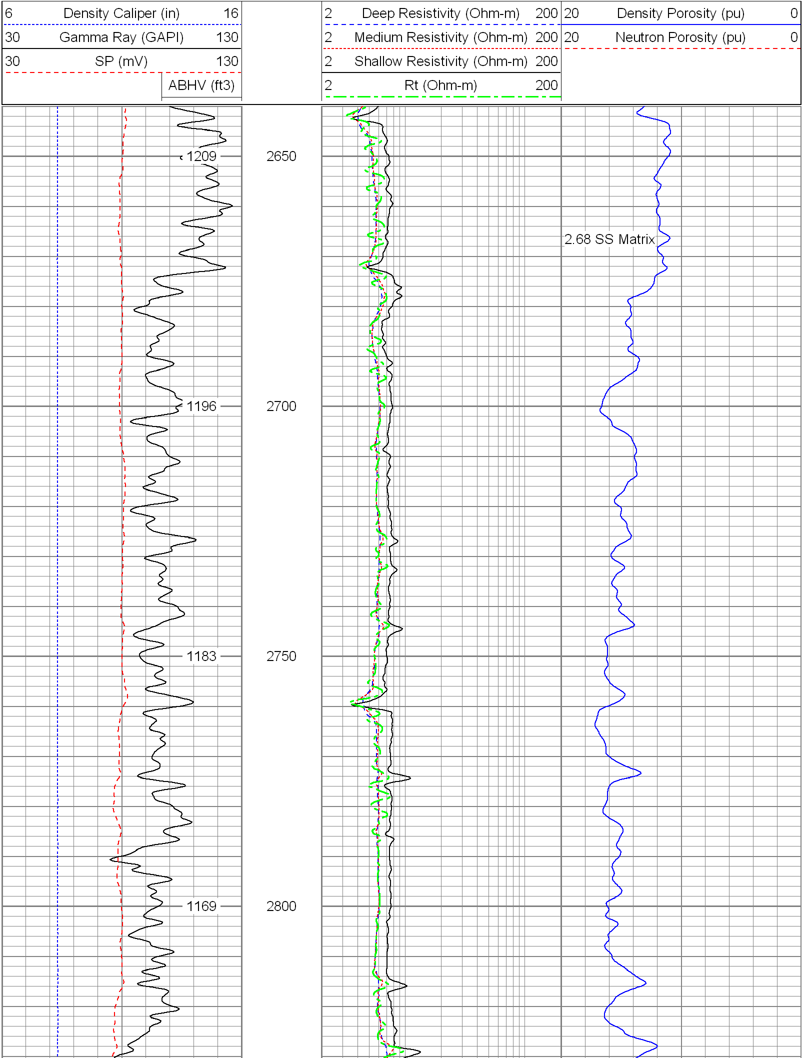
<<< Fold Here >>>

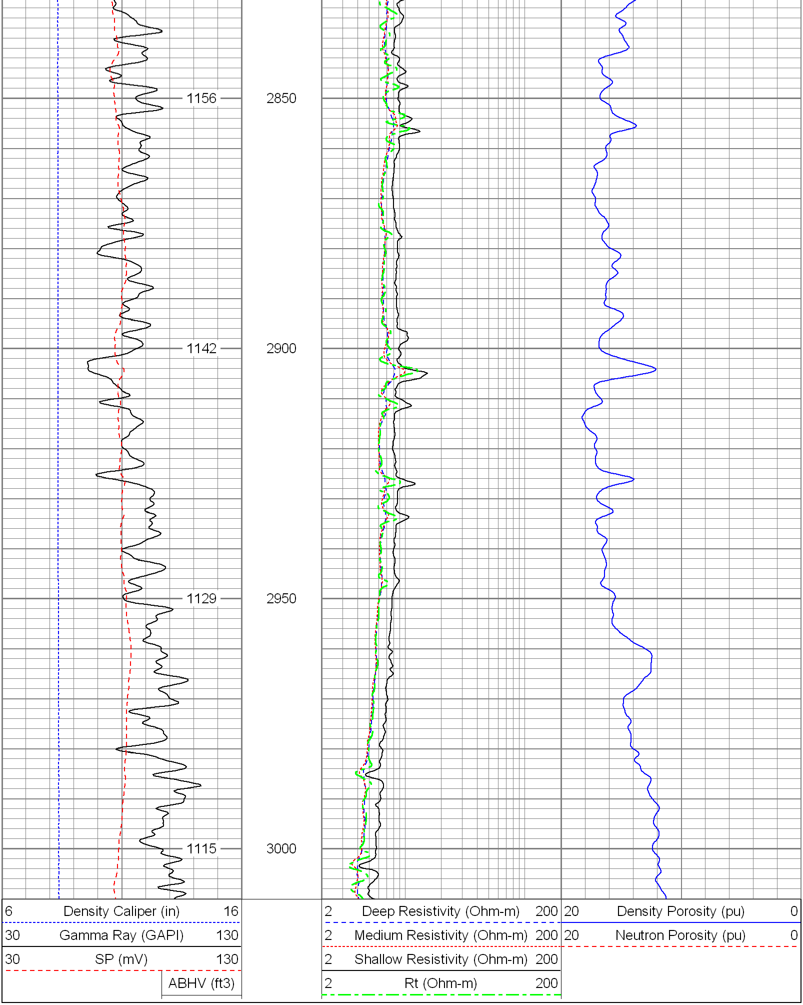
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

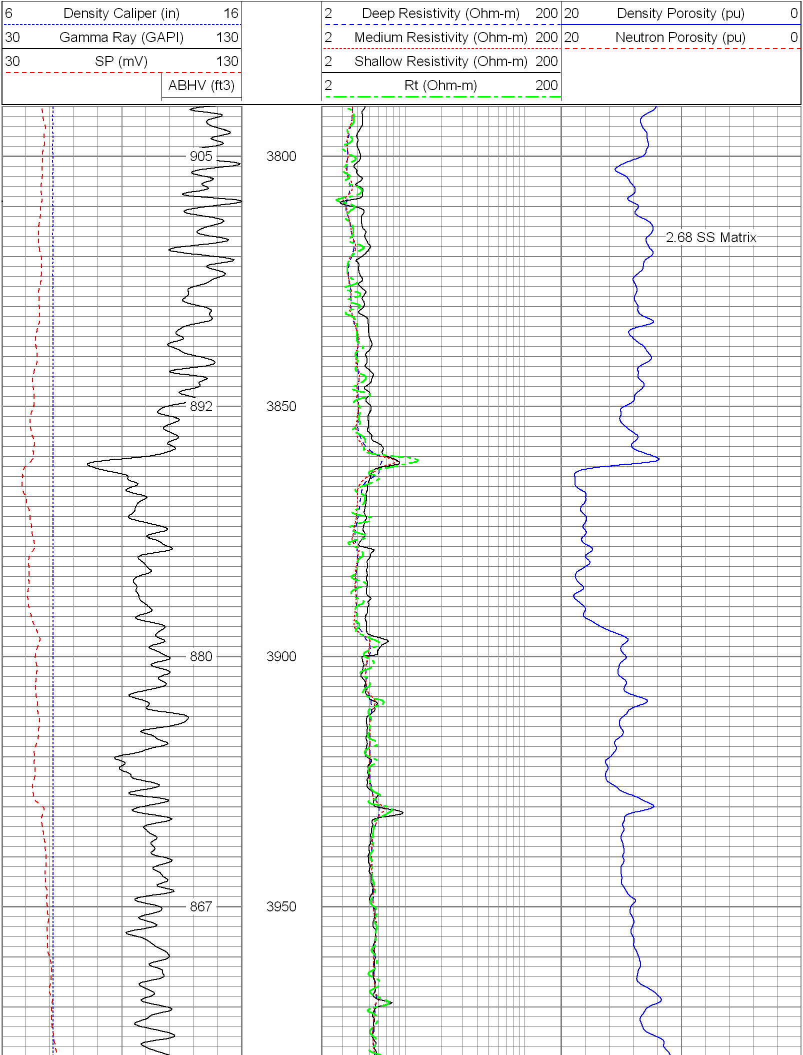
Annular volume calculated for 4.5" casing
Saxson Drilling Rig 143
Thank you for using Phoenix Surveys!!
API #: 05-123-31340-00
No Repeat Due to Hole Conditions

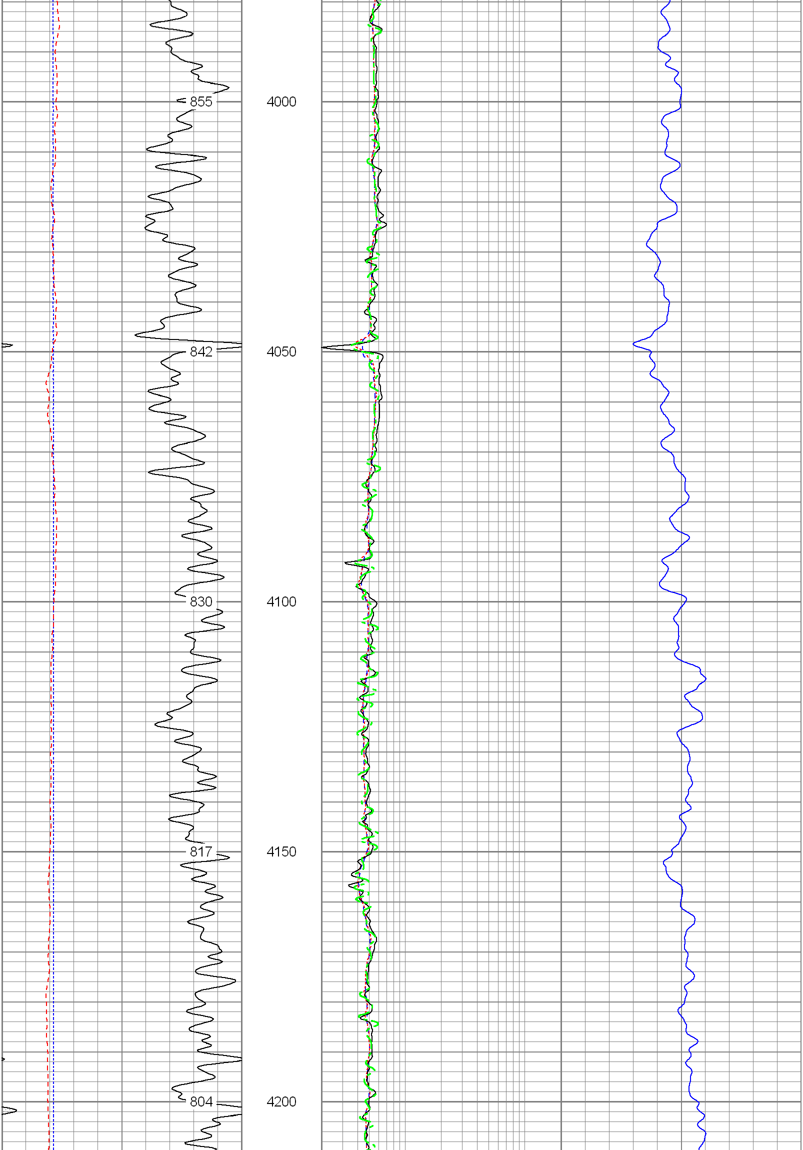
Database File: 12556.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Sun Jan 08 20:24:47 2012
Charted by: Depth in Feet scaled 1:240

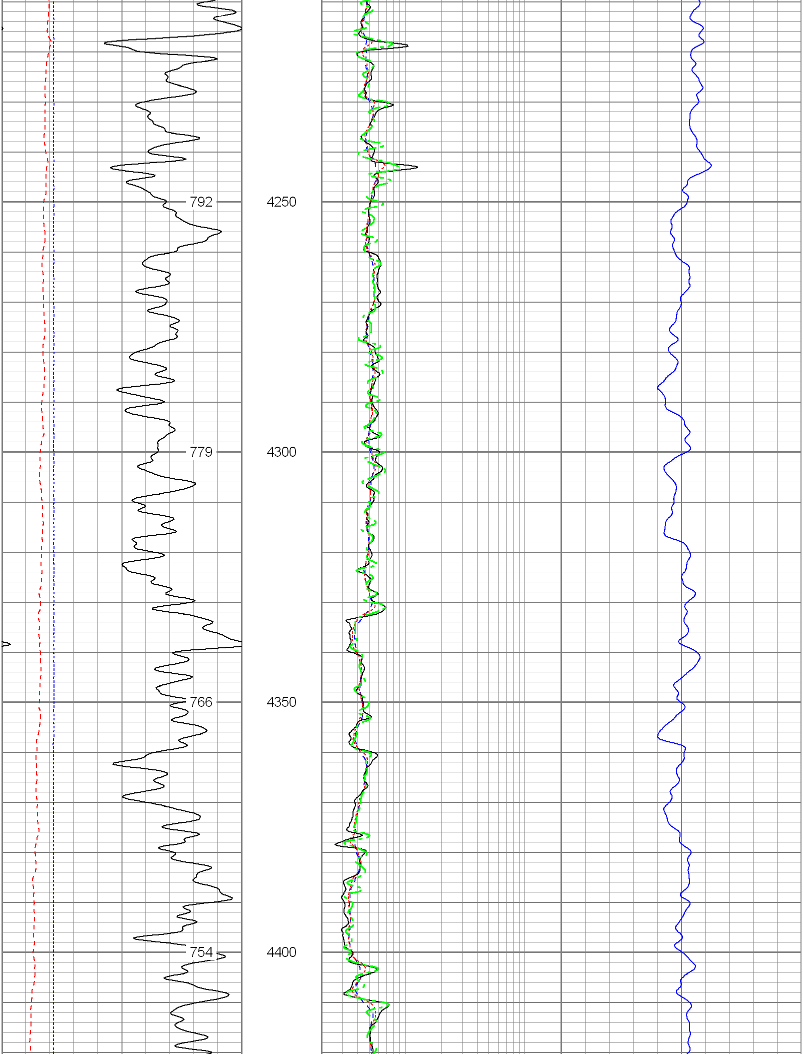


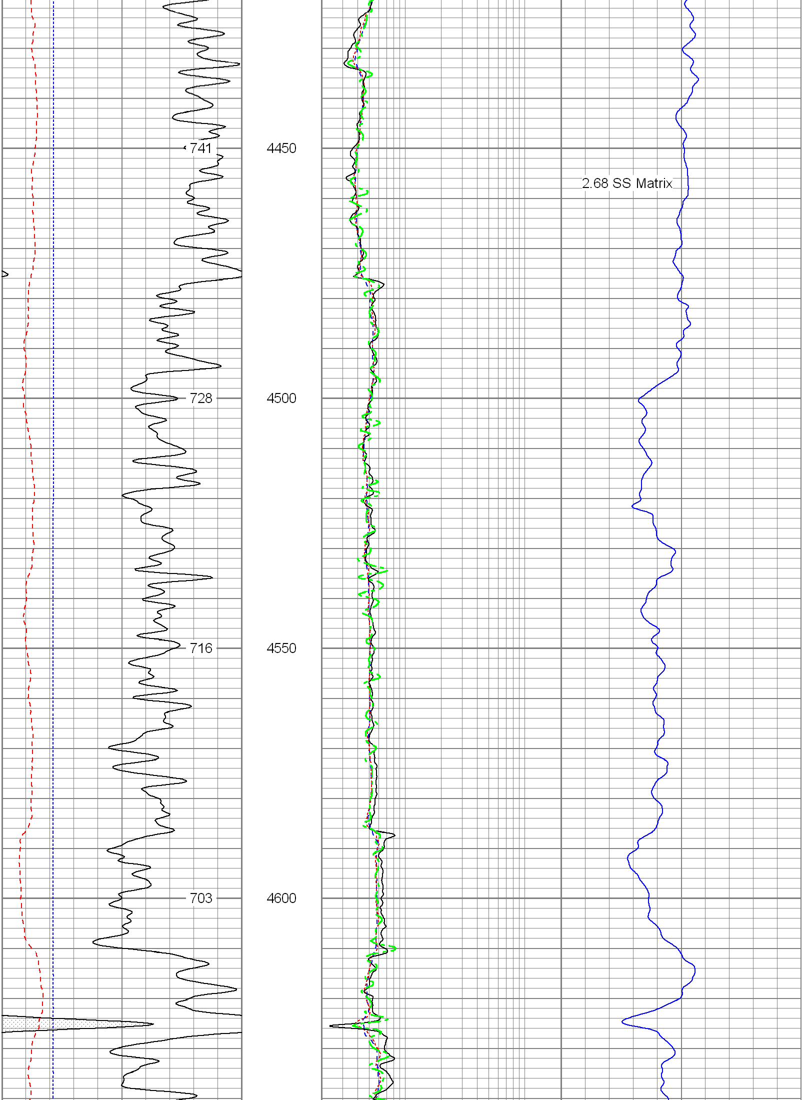


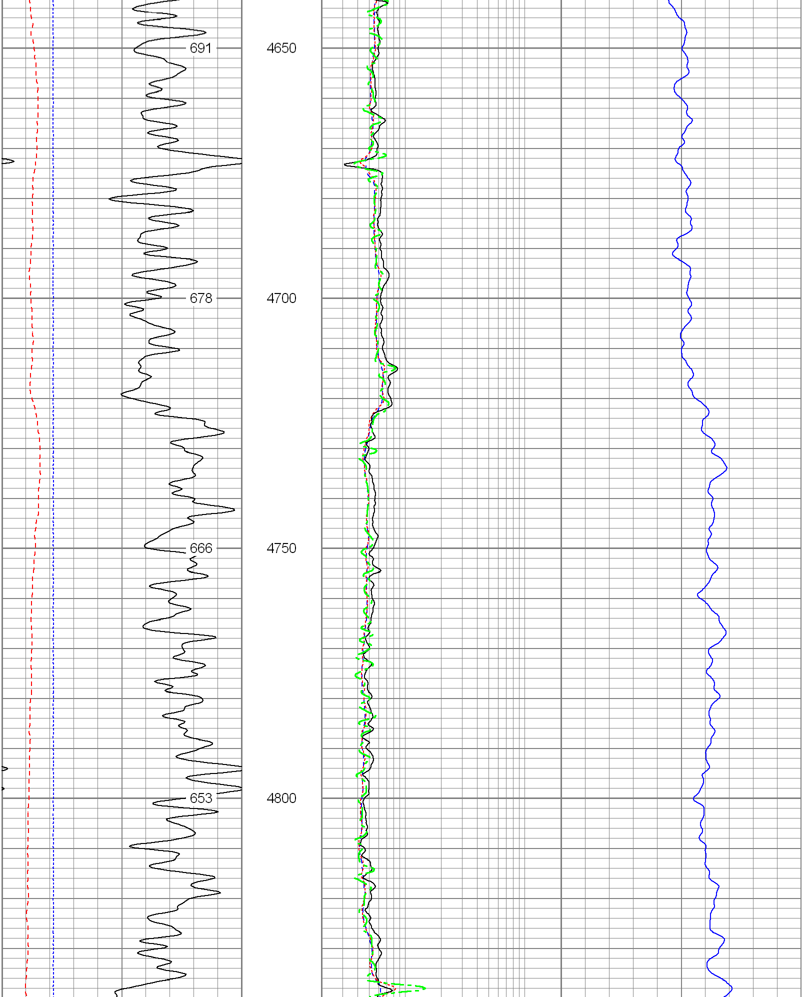
Database File:	12556.db
Dataset Pathname:	final
Presentation Format:	pdc1
Dataset Creation:	Sun Jan 08 20:24:47 2012
Charted by:	Depth in Feet scaled 1:240

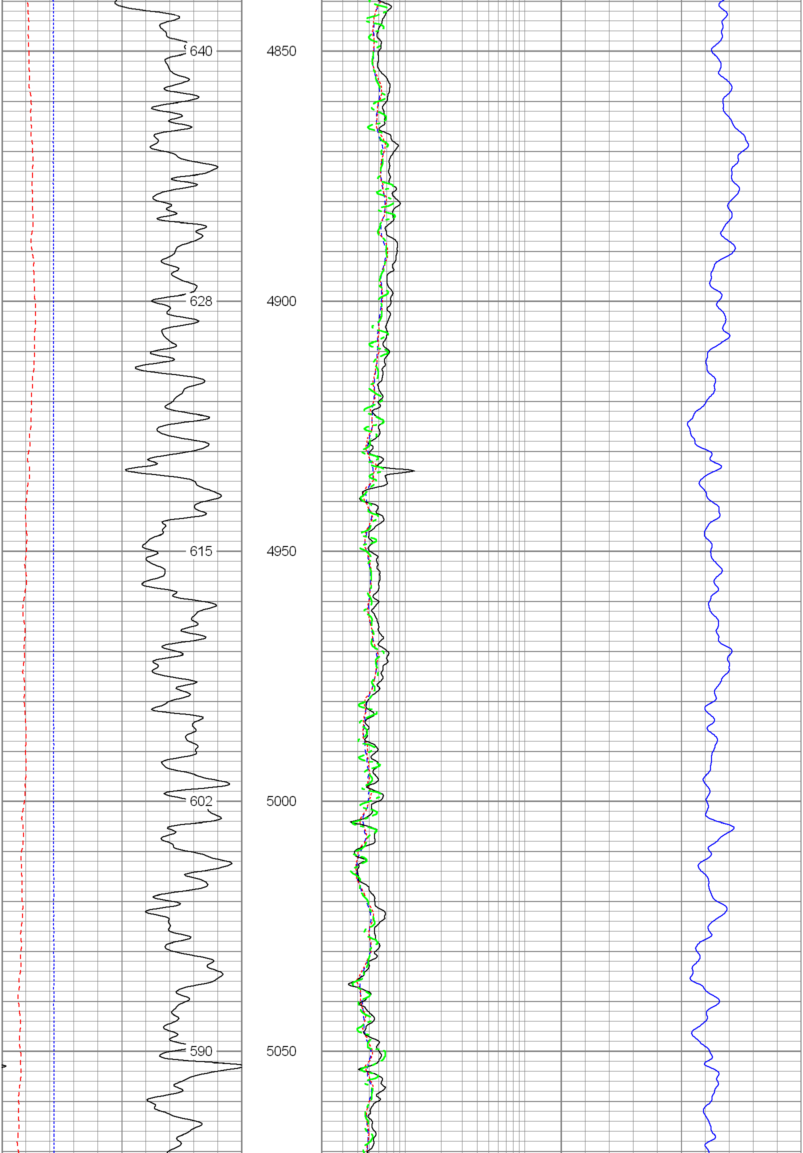


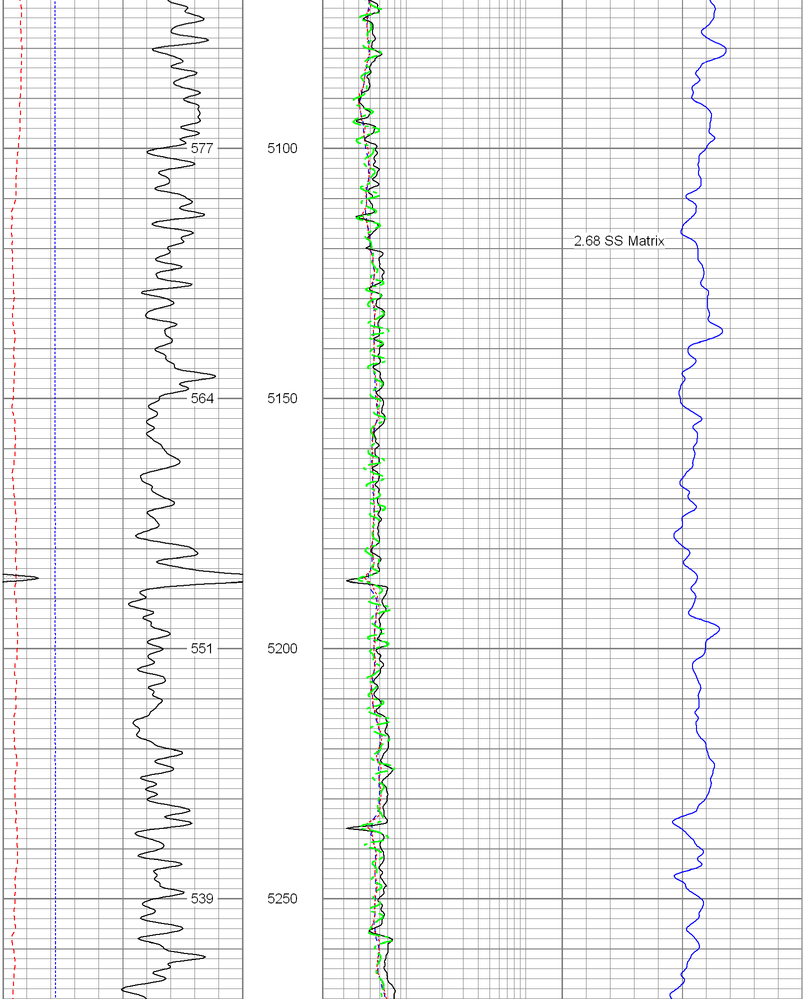


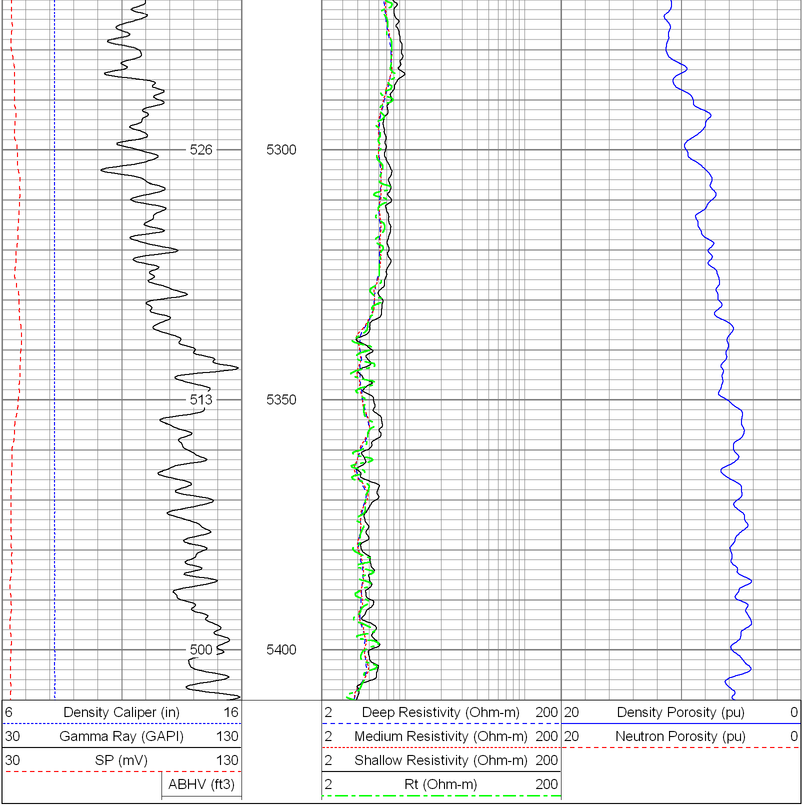








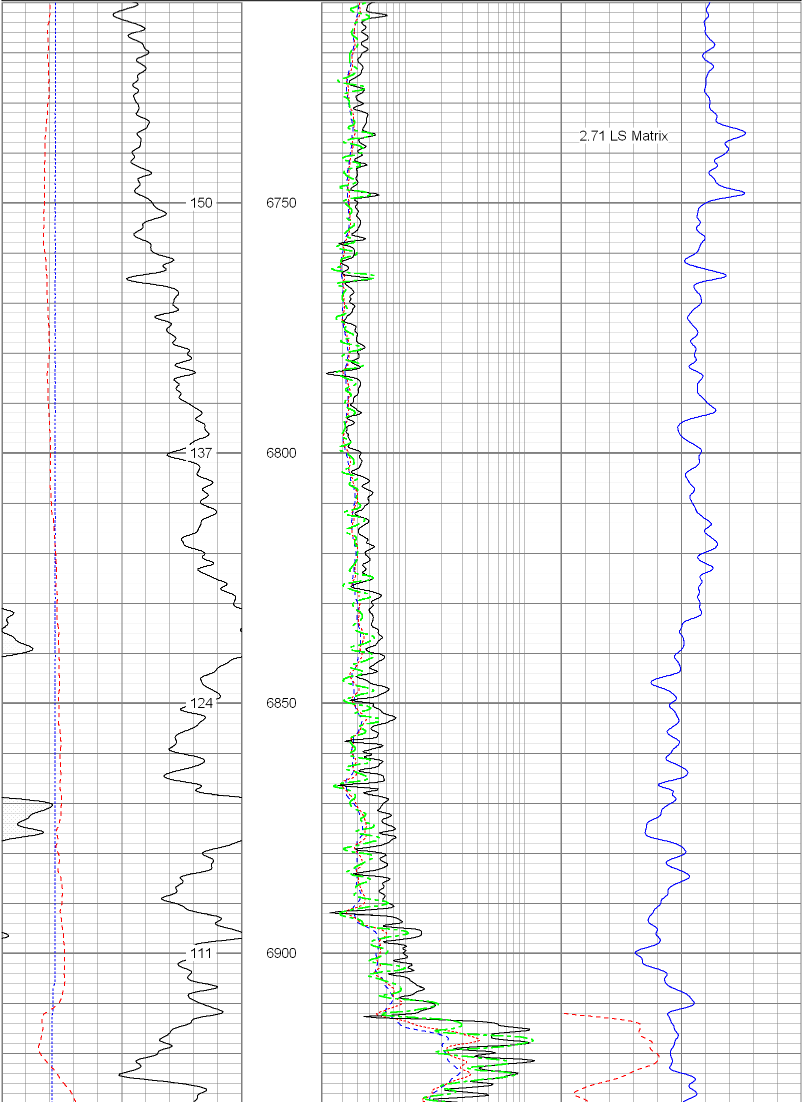
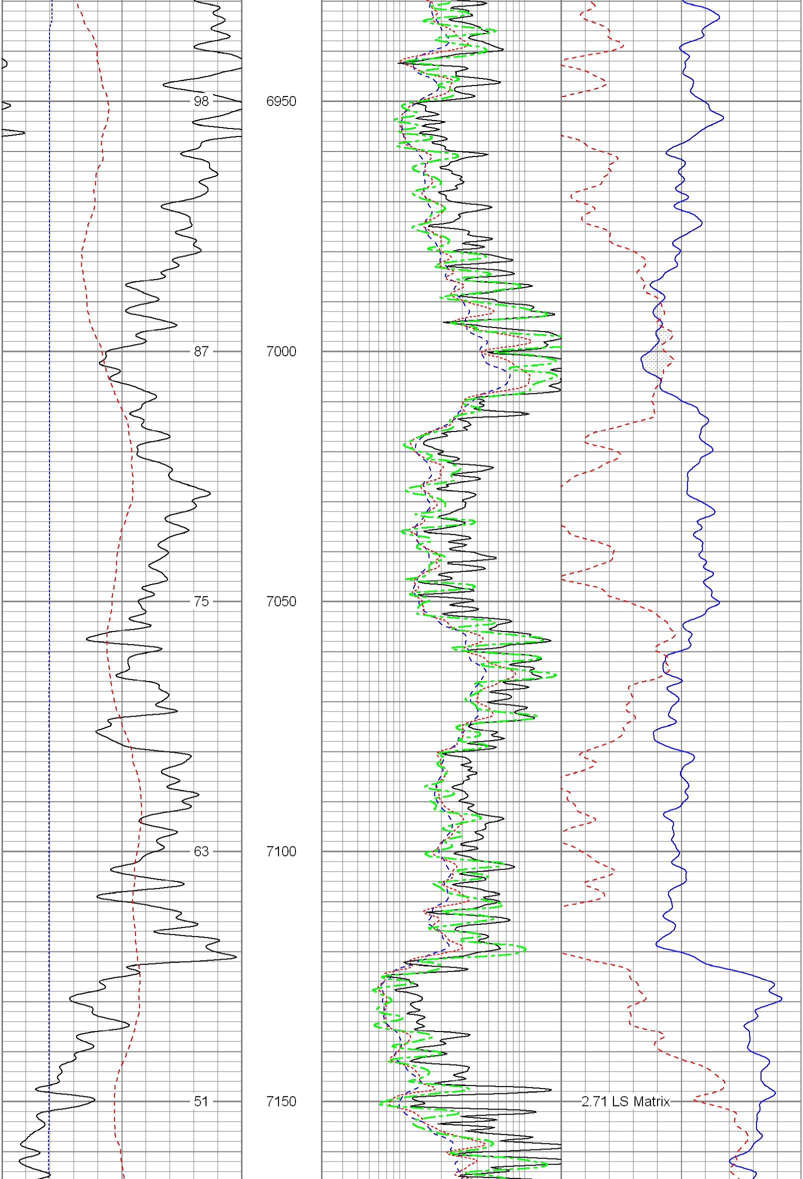
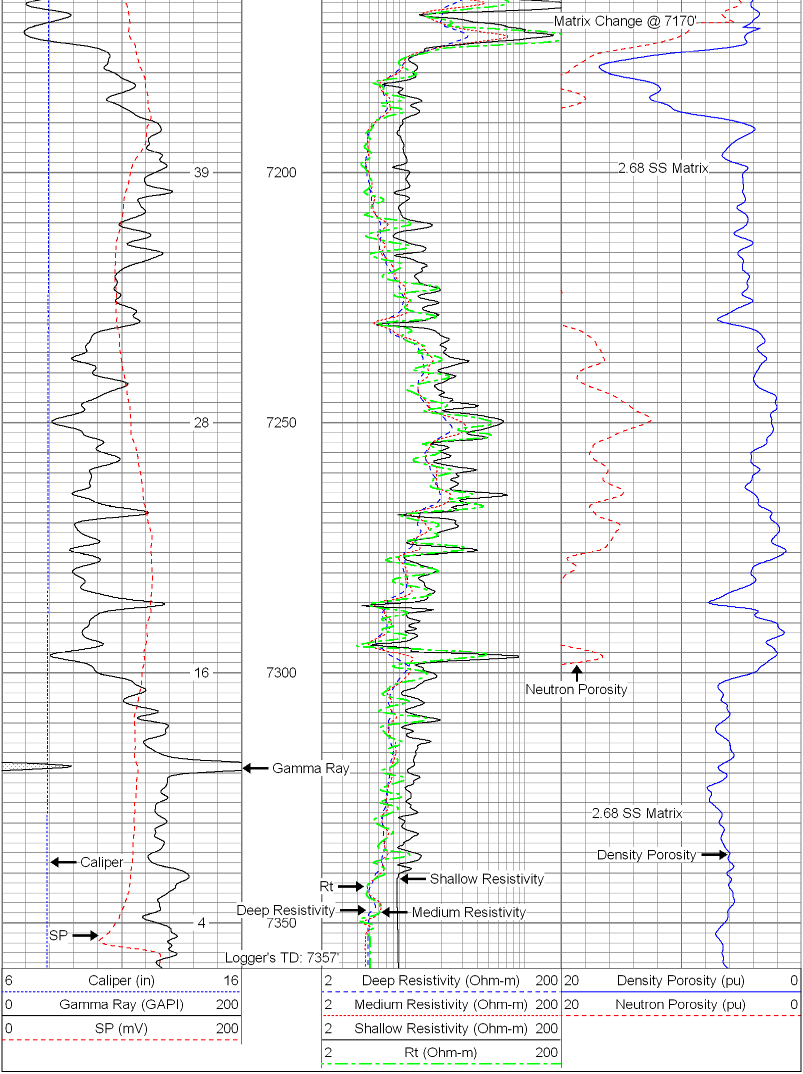




Database File:	12556.db
Dataset Pathname:	final
Presentation Format:	pdc
Dataset Creation:	Sun Jan 08 20:24:47 2012
Charted by:	Depth in Feet scaled 1:240

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