PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
DUAL INDUCTION

Company
Well
Field
County
State/Prv

Company	Bonanza Creek Operating Co. LLC
Well	Antelope 34-19
Field	Wattenberg
County	Weld
State/Province	Colorado

Location
SHL: 682' FSL & 1921' FWL SE SW
BHL: 644' FSL & 1949' FEL SWSE
Sec - 19, Twp - 5N, Rge - 62W

Other Services
None

Permanent Datum GL
Elevation 4621
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4636
D.F. 4635
G.L. 4621

Date	November 28, 2010		
Run Number	1		
Depth Driller	6820		
Depth Logger	6821		
Bottom Logged Interval	6821		
Top Log Interval	Casing		
Casing Driller	434		
Casing Logger	424		
Bit Size	7-7/8"		
Type Fluid in Hole	Polymer Gel		
Density / Viscosity	9.2 / 50		
pH / Fluid Loss	8.5 / 10.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.10 @ 70 F		
Rmf @ Meas. Temp	2.14 @ 70 F		
Rmc @ Meas. Temp	4.17 @ 70 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.11 @ 199 F		
Time Circulation Stopped	0345		
Time Logger on Bottom	1400		
Maximum Recorded Temperature	199 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Ian Harris		
Witnessed By	Kurt Dodge	Brian Cunningham	John Adams

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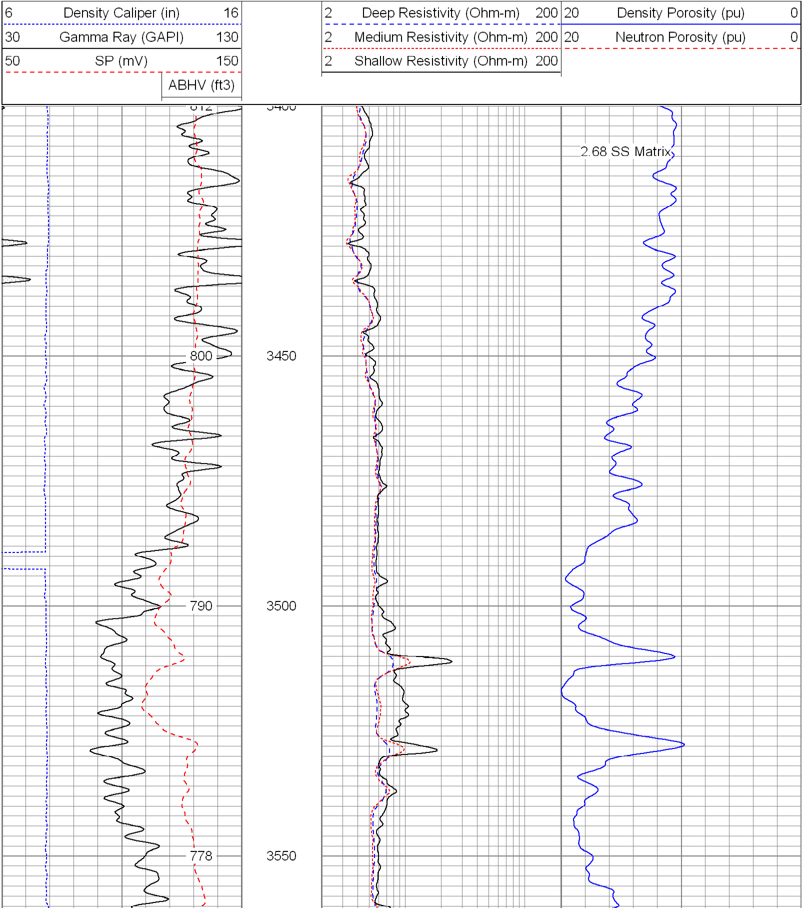
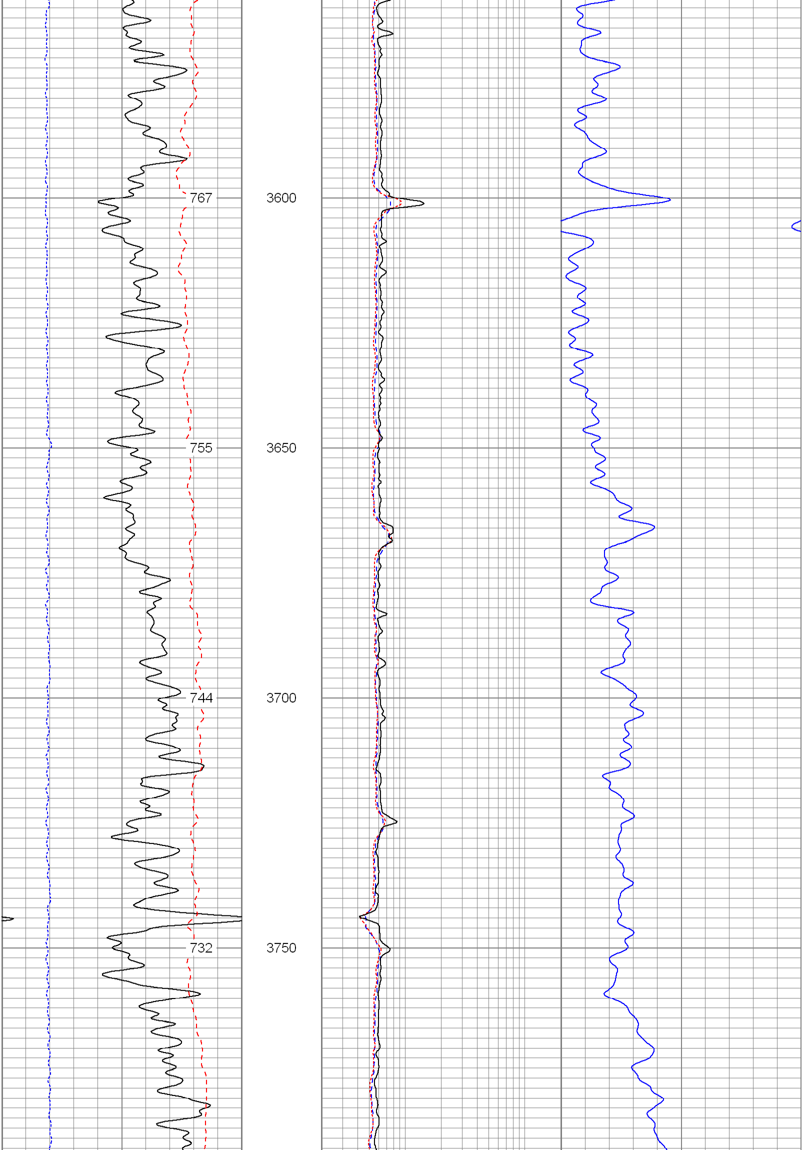
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

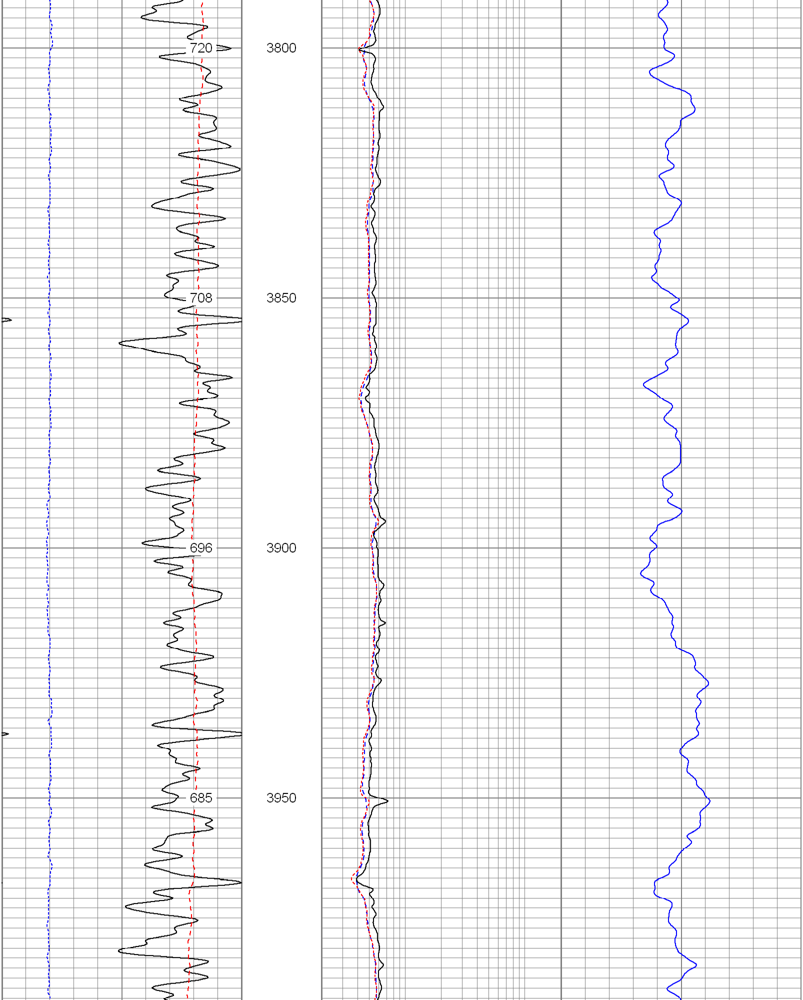
Comments

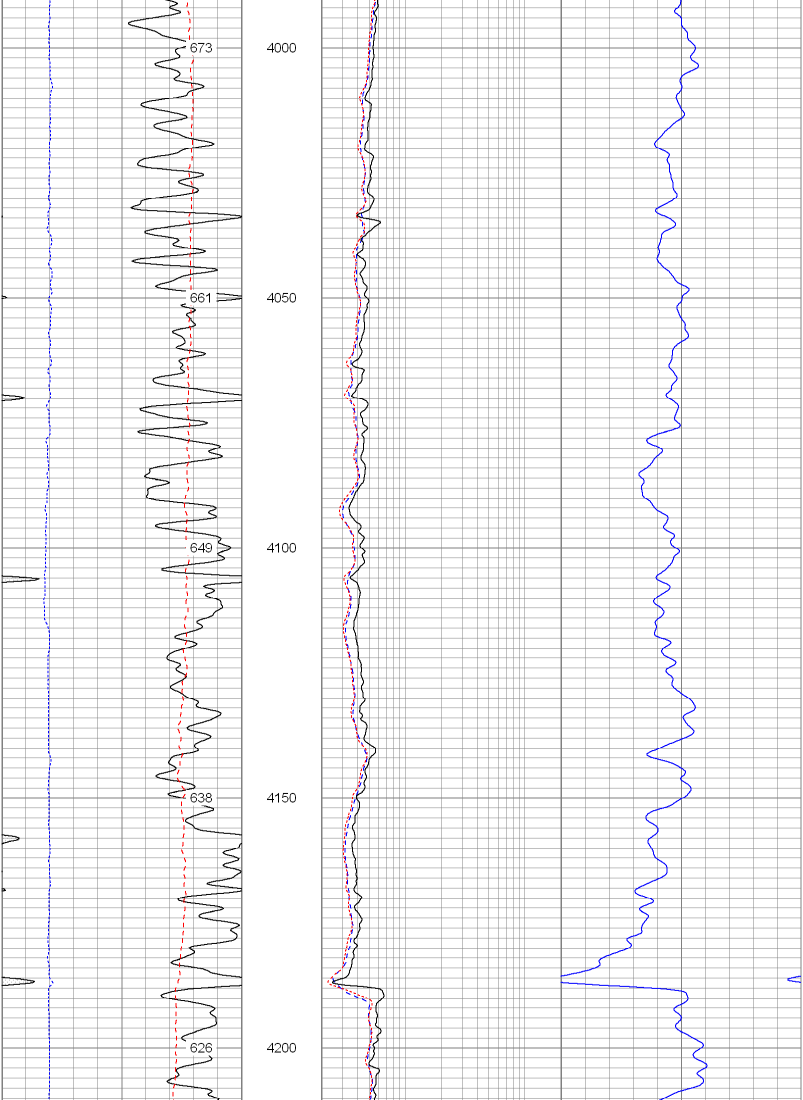
Annular volume calculated for 4.5" casing
Xtreme Rig 14
Thank you for using Phoenix Surveys!!
API #: 05-123-32353-00
No Repeat Due to Hole Conditions

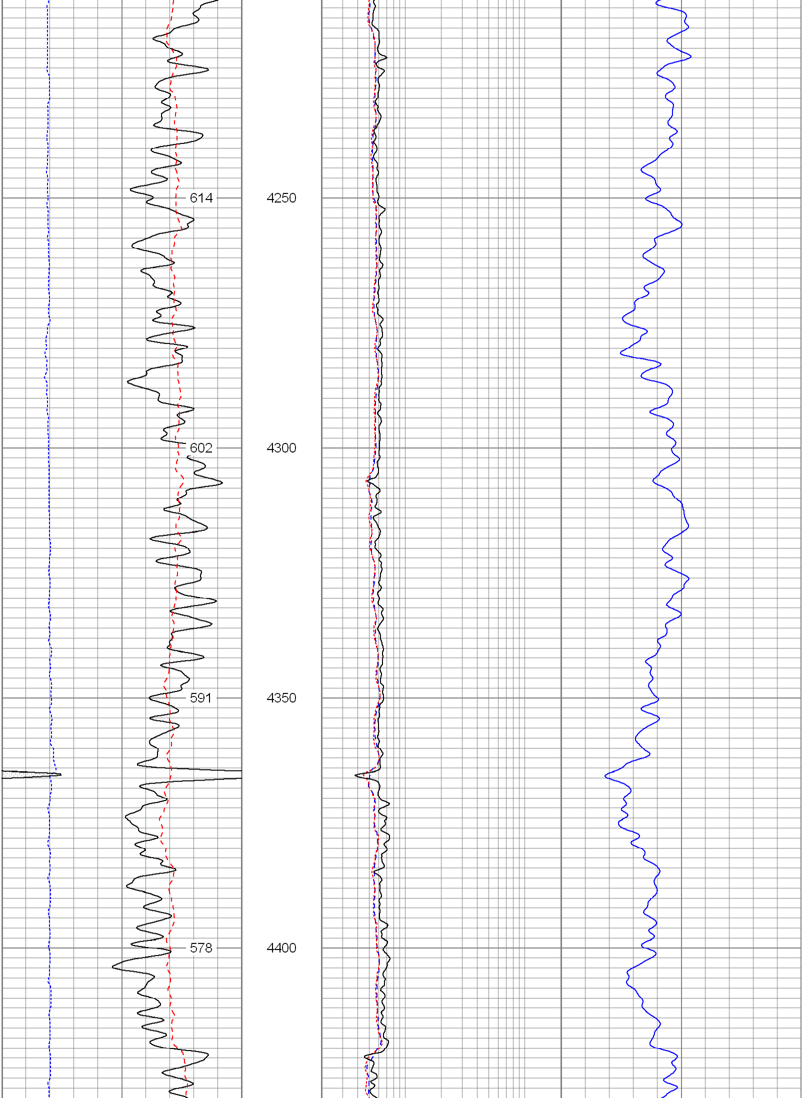
Database File: 11234.db
Dataset Pathname: pass2
Presentation Format: pdc1
Dataset Creation: Sun Nov 28 13:54:32 2010 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

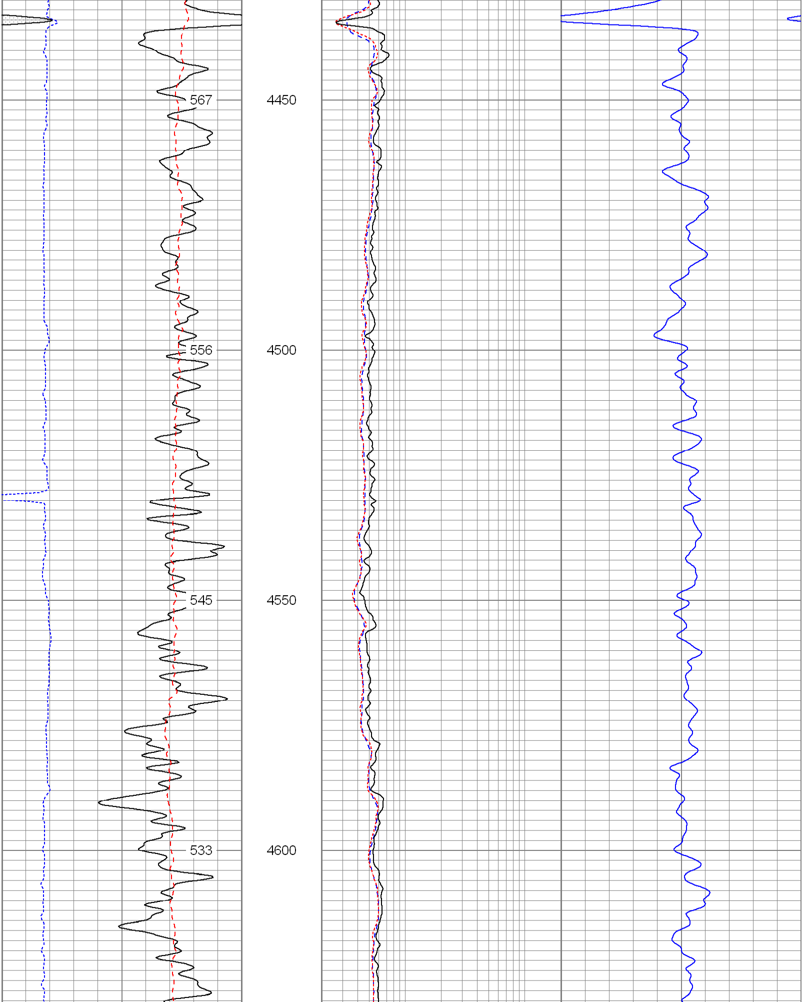


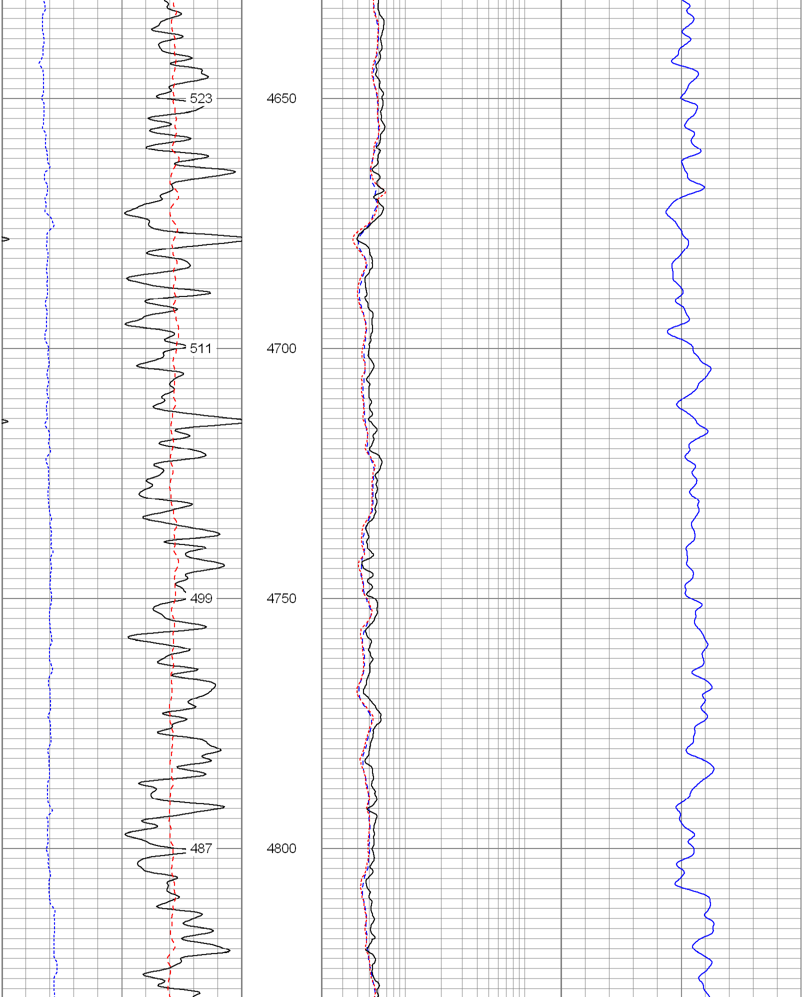


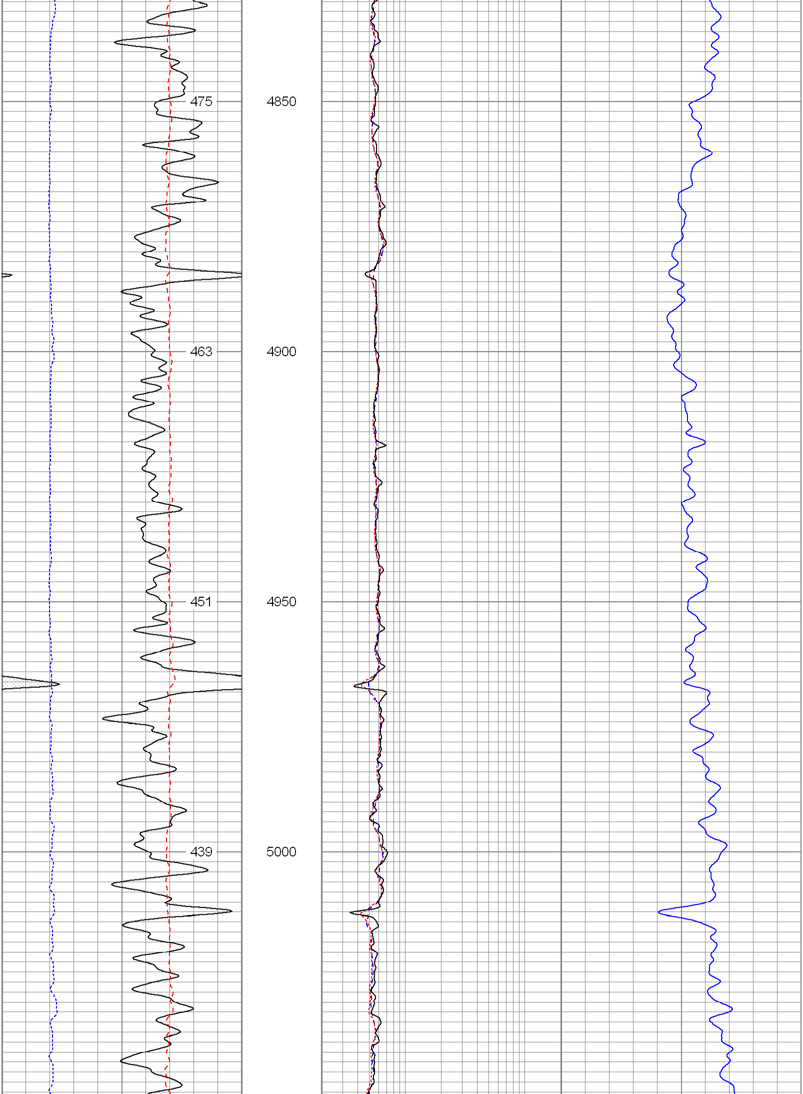


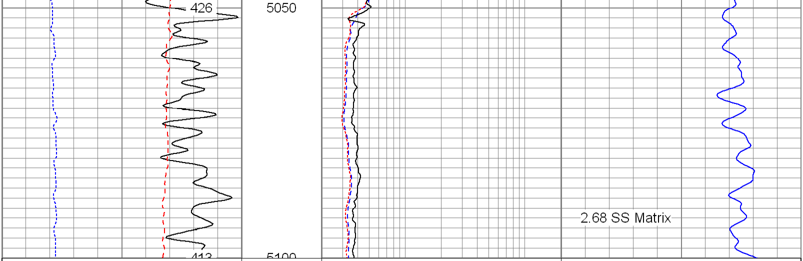






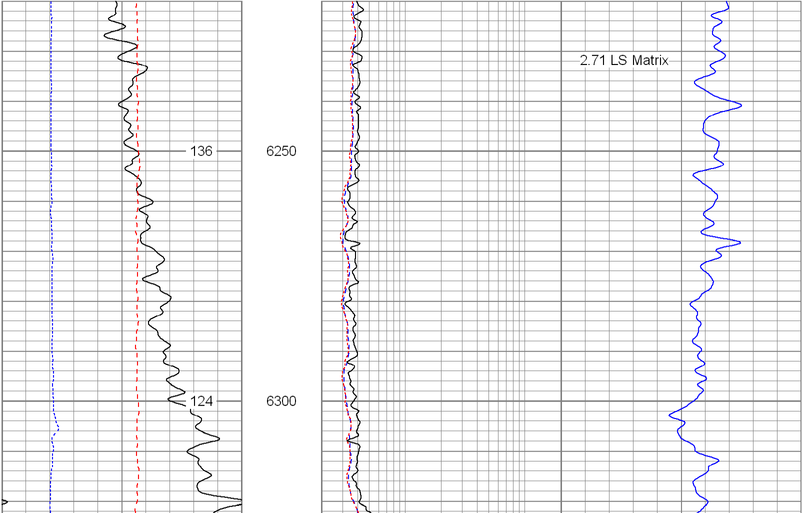
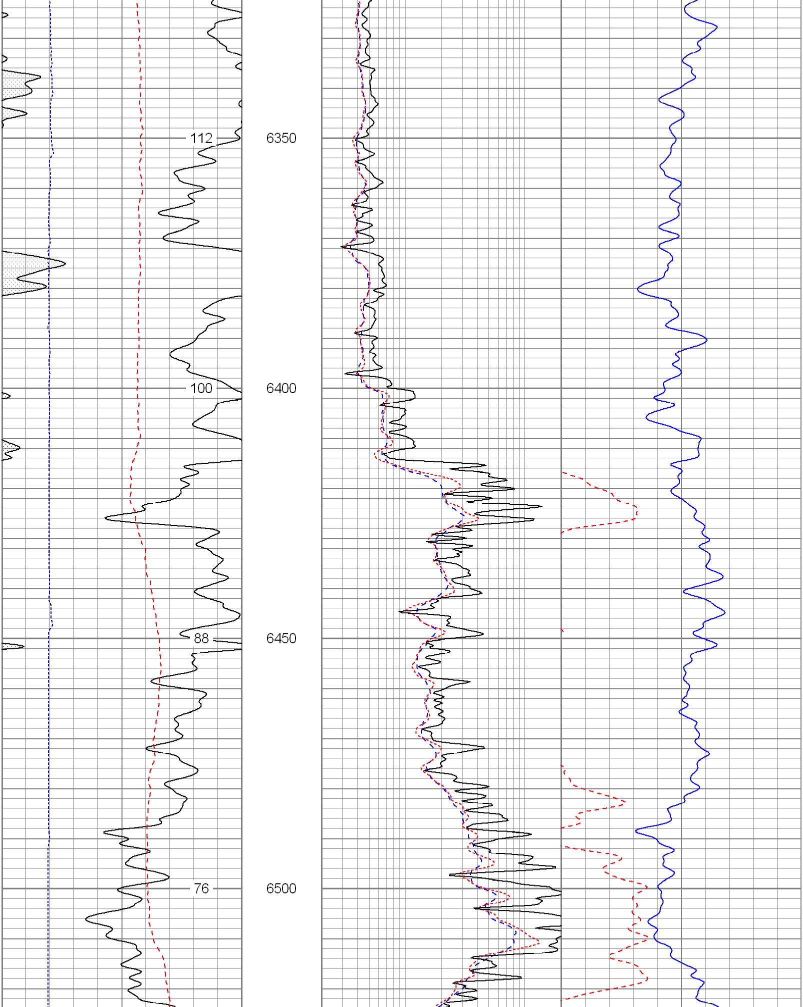
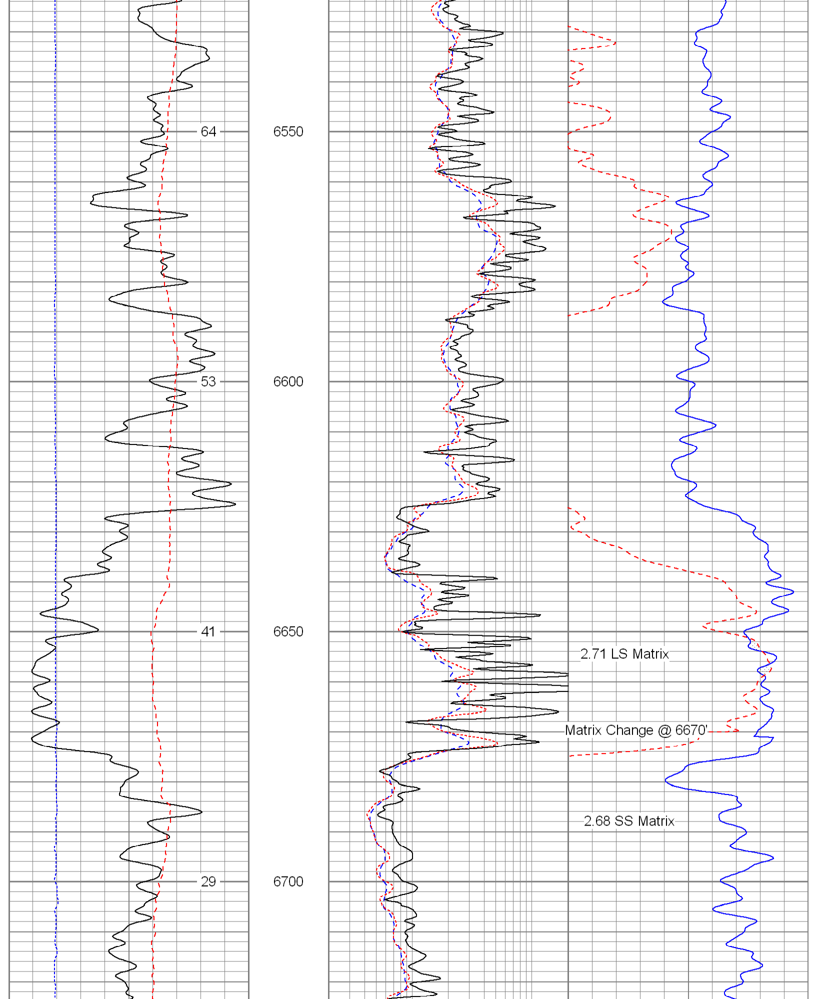
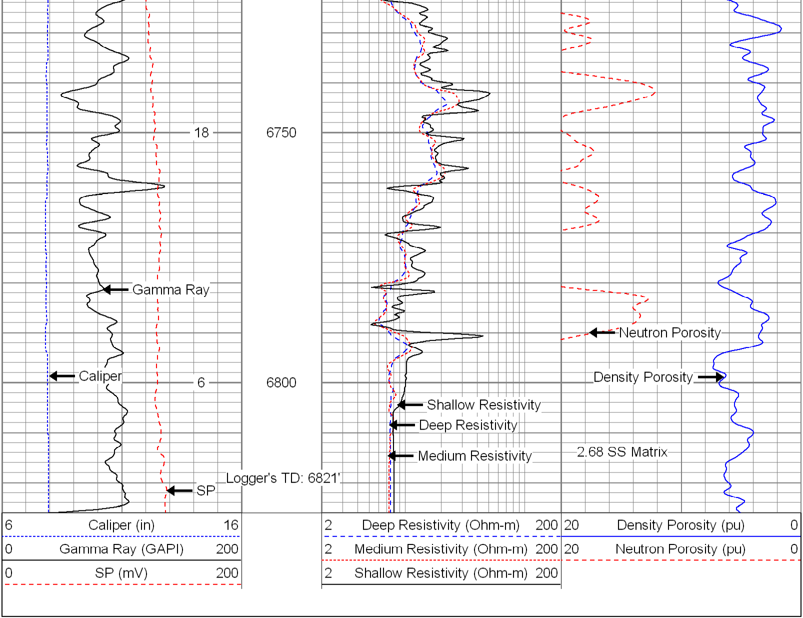






6 Density Caliper (in) 16	2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
30 Gamma Ray (GAPI) 130	2 Medium Resistivity (Ohm-m) 200	20 Neutron Porosity (pu) 0
50 SP (mV) 150	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)		

Database File:	11234.db
Dataset Pathname:	pass2.1
Presentation Format:	pdc
Dataset Creation:	Sun Nov 28 14:10:31 2010 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

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