PSI
PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company
Well
Field
County
State/Prv

Company **Bonanza Creek Energy Inc.**
Well **Antelope 43-31**
Field **Wattenberg**
County **Weld** State/Province **Colorado**

Location
SHL: 1430' FSL & 1397' FEL NWSE
BHL: 1954' FSL & 654' FEL NESE
Sec - 31, Twp - 5N, Rge - 62W

Other Services
None

Elevation
K.B. 4570
D.F. 4569
G.L. 4558

Permanent Datum GL Elevation 4558
Log Measured From KB
Drilling Measured From KB

Date	May 31, 2011		
Run Number	1		
Depth Driller	6697		
Depth Logger	6698		
Bottom Logged Interval	6698		
Top Log Interval	Casing		
Casing Driller	434		
Casing Logger	434		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.2 / 55		
pH / Fluid Loss	8.5 / 9.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.00 @ 65 F		
Rmf @ Meas. Temp	2.20 @ 65 F		
Rmc @ Meas. Temp	3.75 @ 65 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	0.98 @ 198 F		
Time Circulation Stopped	2130		
Time Logger on Bottom	0345		
Maximum Recorded Temperature	198 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Schuman		
Witnessed By	Cunningham	Adams	Dodge

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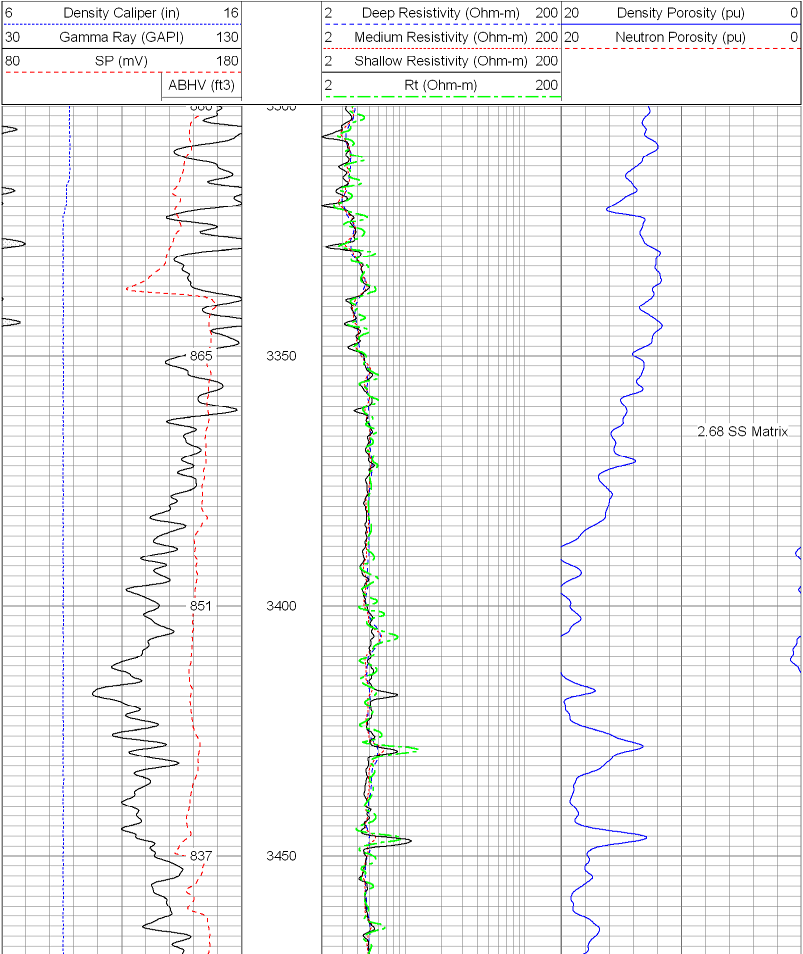
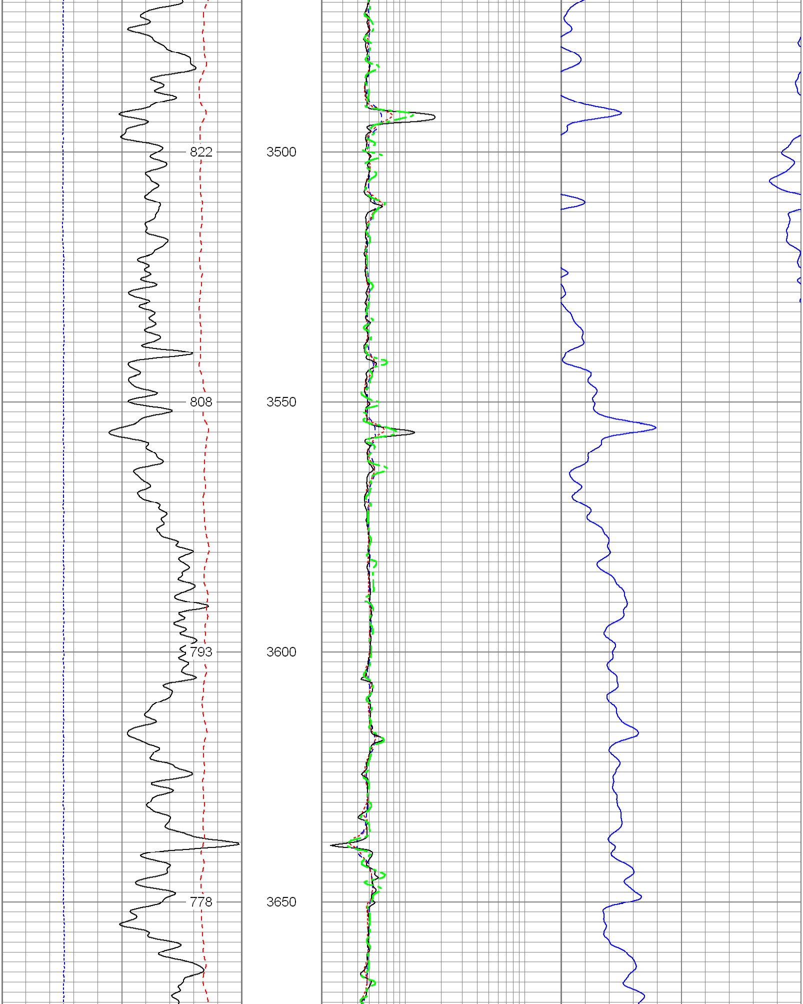
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

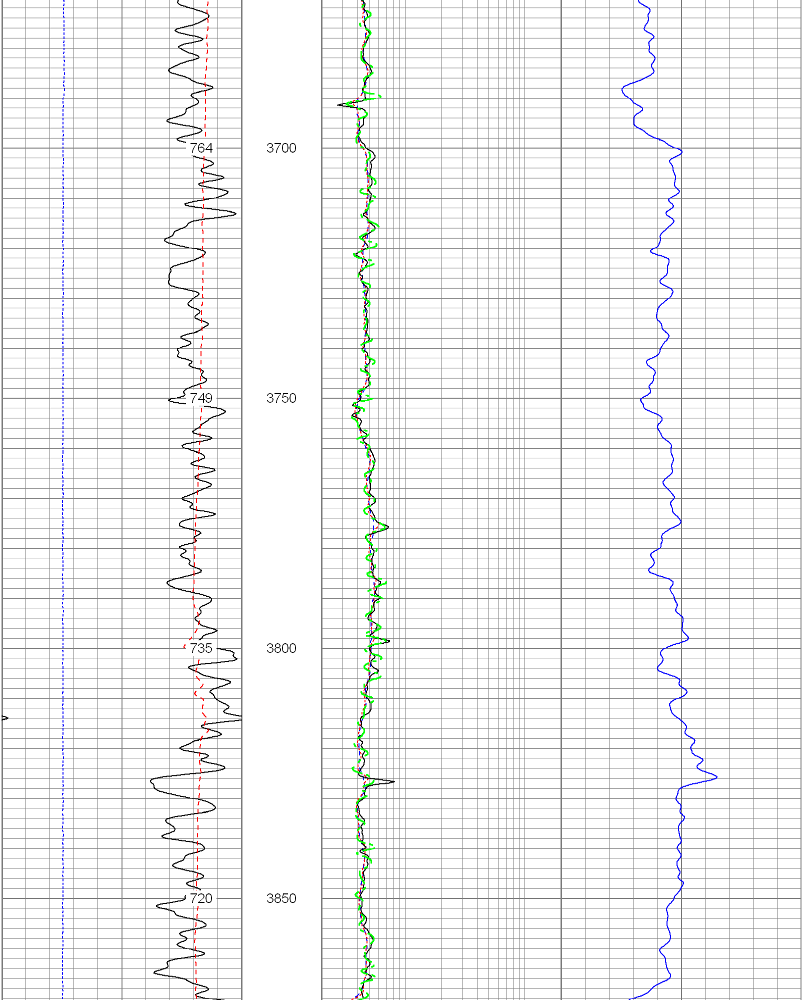
Comments

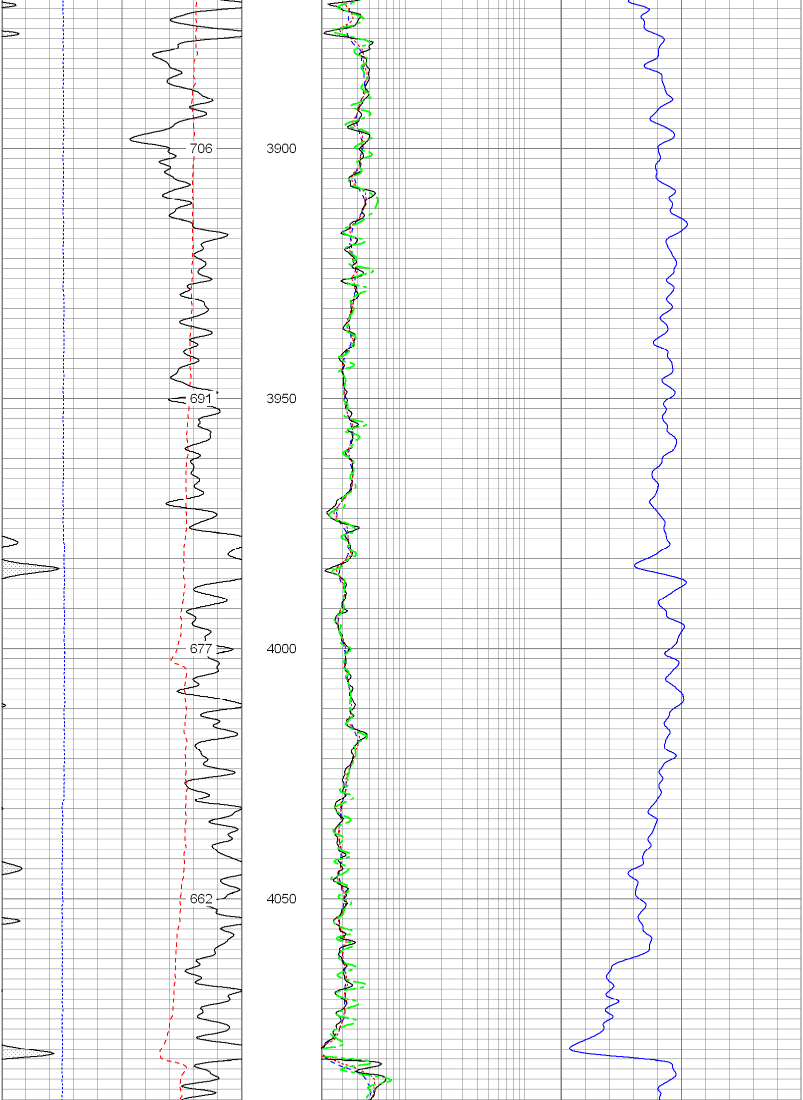
Annular volume calculated for 4.5" casing
Fort Rig 5
Thank you for using Phoenix Surveys!!
API #: 05-123-32889

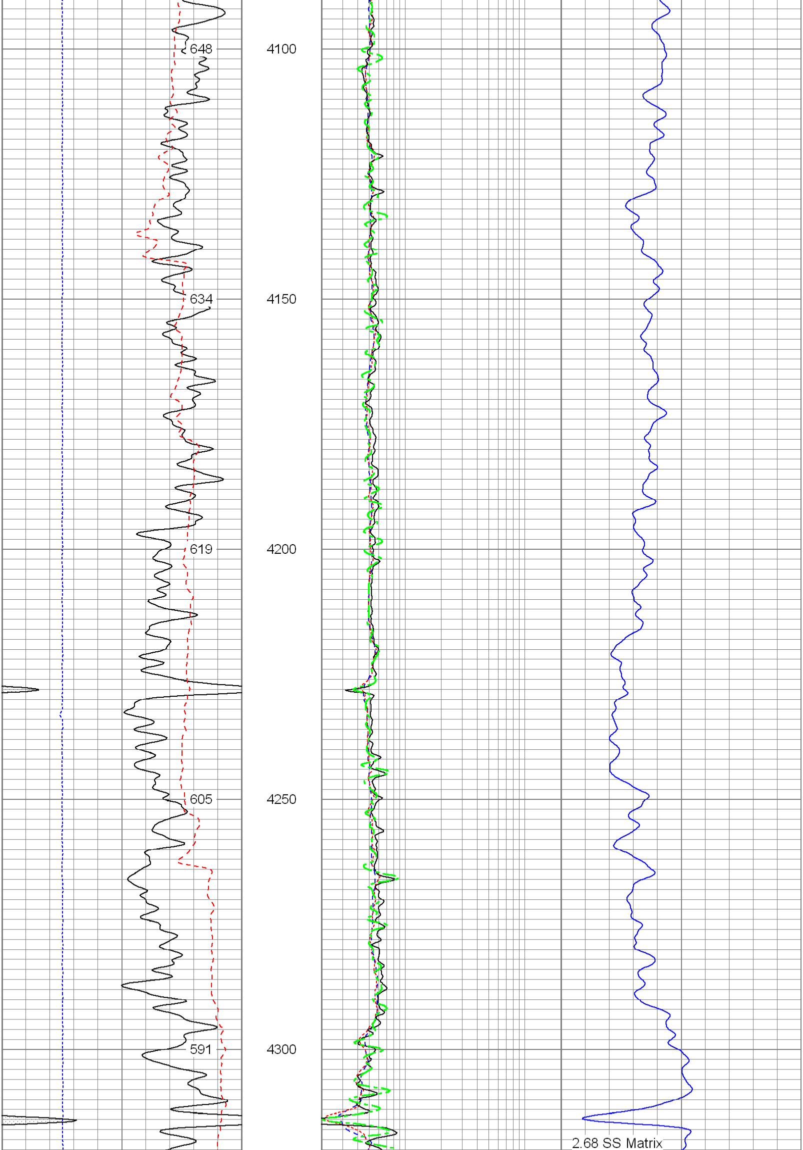
Database File: 11649.db
Dataset Pathname: main
Presentation Format: pdc1
Dataset Creation: Tue May 31 05:06:06 2011
Charted by: Depth in Feet scaled 1:240

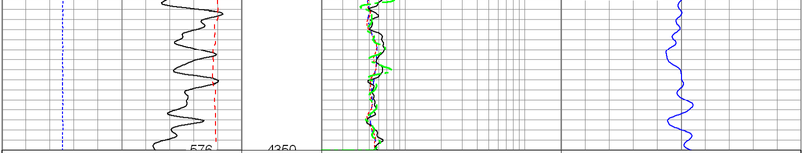












6	Density Caliper (in)	16
30	Gamma Ray (GAPI)	130
80	SP (mV)	180
	ABHV (ft3)	
2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200
2	Rt (Ohm-m)	200
20	Density Porosity (pu)	0
20	Neutron Porosity (pu)	0

Database File:	11649.db
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Presentation Format:	pdc1
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Charted by:	Depth in Feet scaled 1:240

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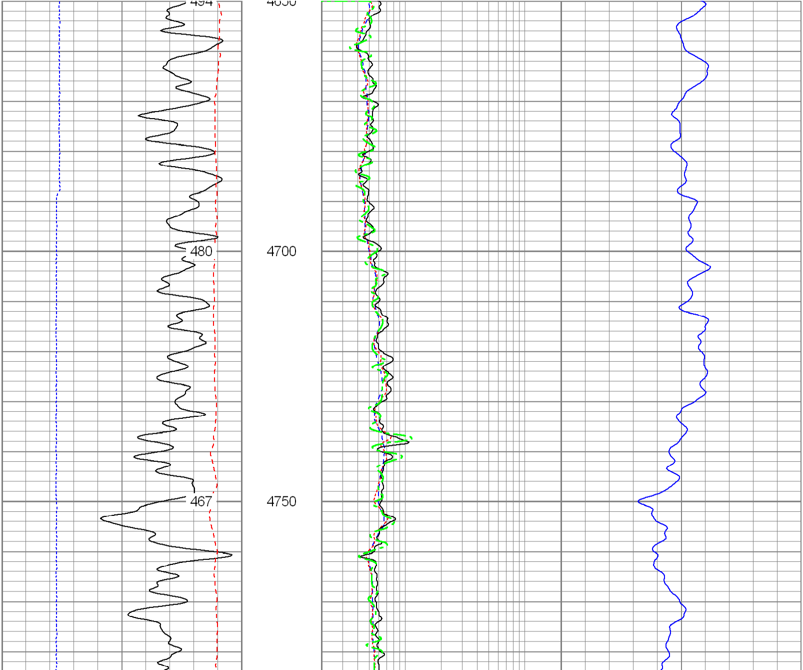
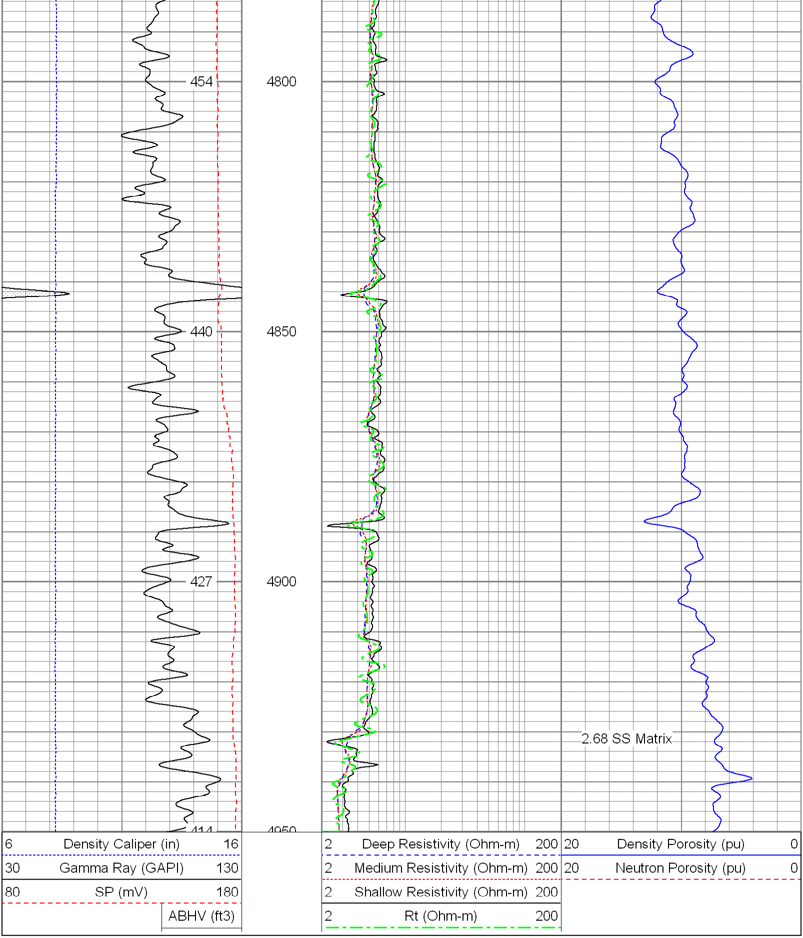
20	Density Porosity (pu)	0
20	Neutron Porosity (pu)	0





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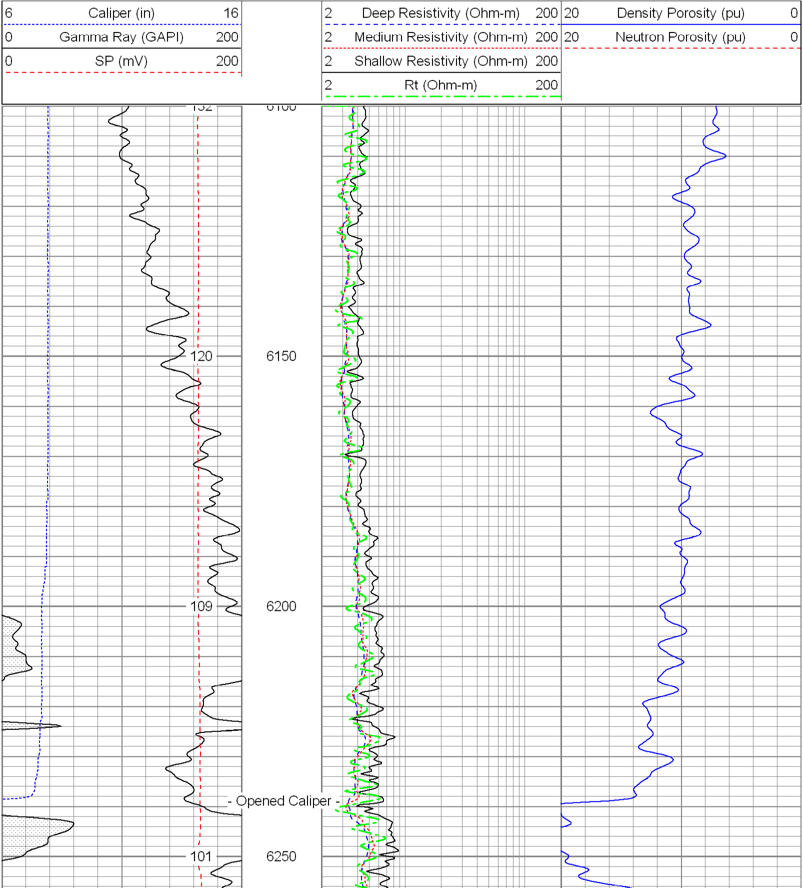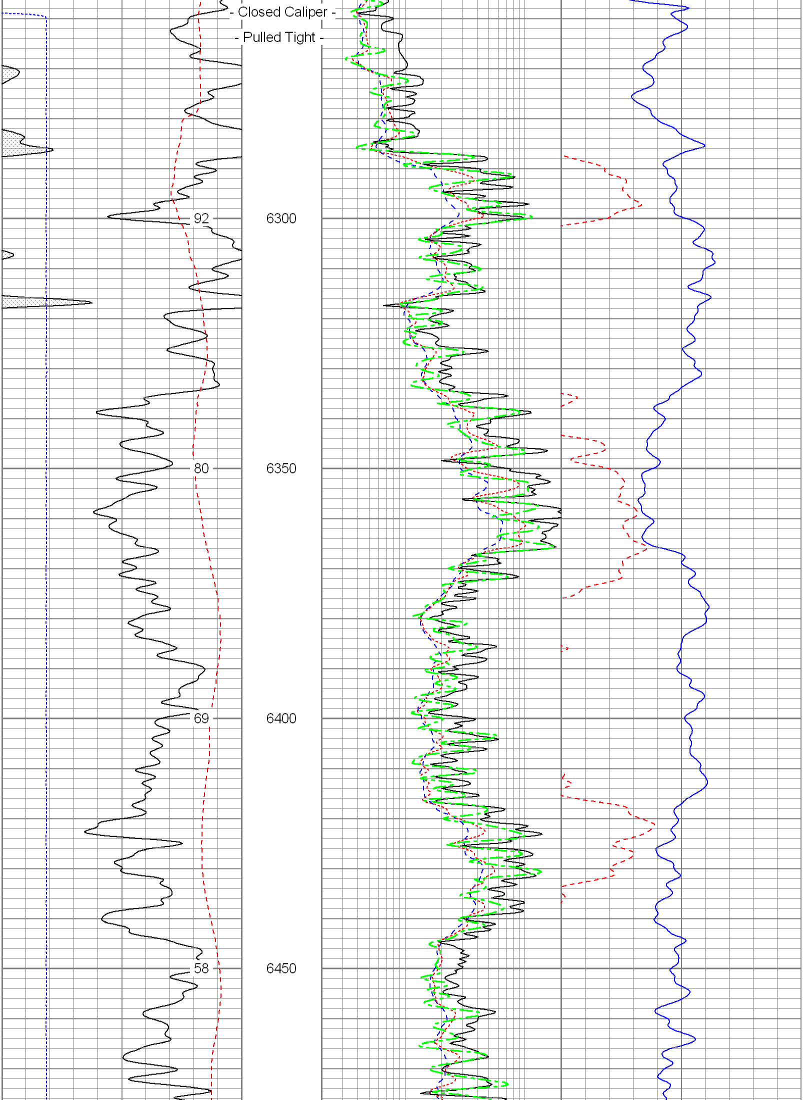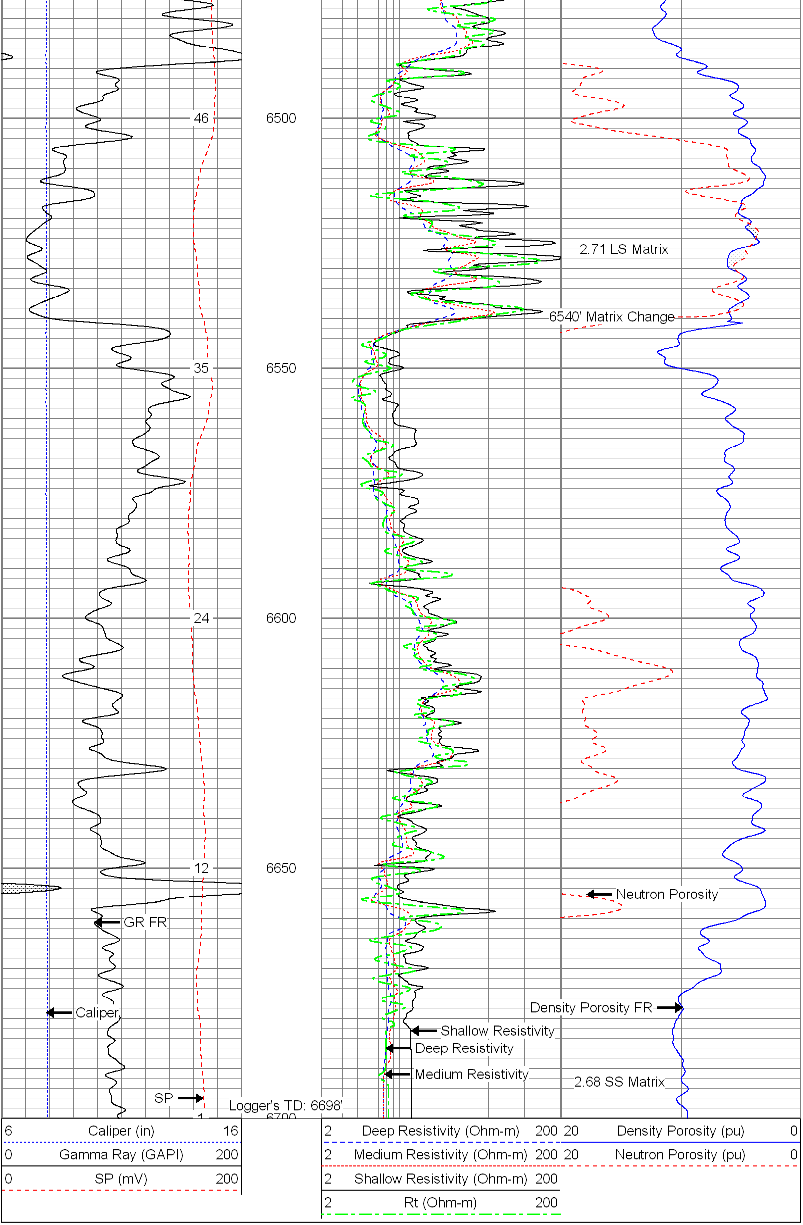
6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
120
6150
109
6200
- Opened Caliper -
101
6250