PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company
Well
Field
County
State/Prv

Company	**Bonanza Creek Energy Inc.**
Well	**Antelope 12-20**
Field	**Wattenberg**
County	**Weld**
State/Province	**Colorado**

Location
SHL: 642' FNL & 700' FWL NWNW
BHL: 2010' FNL & 622' FWL SWNW
Sec - 20, Twp - 5N, Rge - 62W

Other Services
None

Elevation
K.B. 4662
D.F. 4661
G.L. 4652

Permanent Datum GL
Elevation 4652
Log Measured From KB
Drilling Measured From KB

Date	September 7, 2011		
Run Number	1		
Depth Driller	6909		
Depth Logger	6892		
Bottom Logged Interval	6892		
Top Log Interval	Casing		
Casing Driller	465		
Casing Logger	475		
Bit Size	7-7/8"		
Type Fluid in Hole	Polymer Gel		
Density / Viscosity	9.1/ 40		
pH / Fluid Loss	8.0 / 12.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.55 @ 70 F		
Rmf @ Meas. Temp	2.84 @ 70 F		
Rmc @ Meas. Temp	4.26 @ 70 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.15 @ 196 F		
Time Circulation Stopped	2030 9/6		
Time Logger on Bottom	0445		
Maximum Recorded Temperature	196 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Gene Hudson	Robin Brackman	

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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

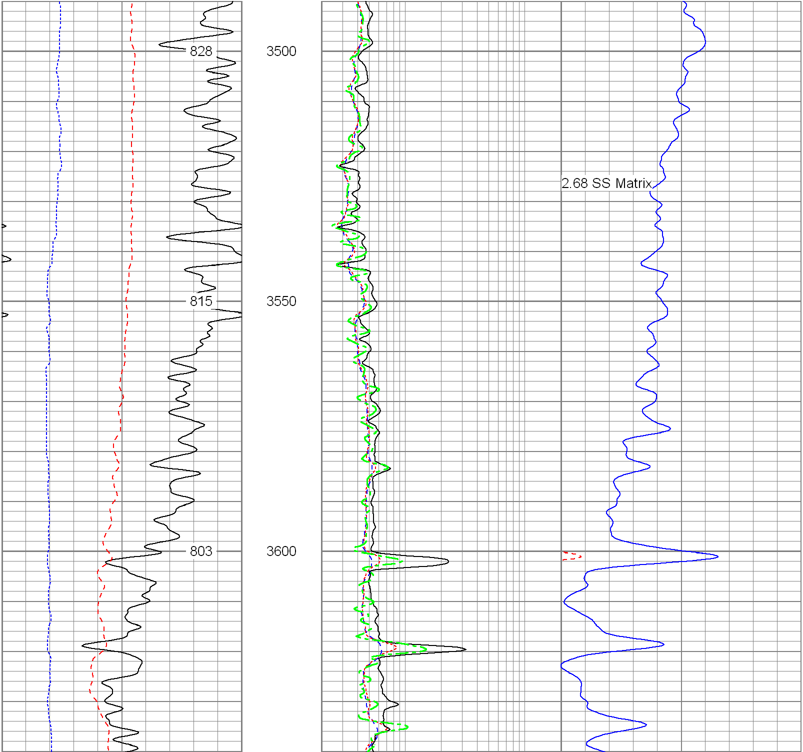
Annular volume calculated for 4.5" casing
Mid Continent Rig 1
Thank you for using Phoenix Surveys!!
API #: 05-123-34044-00

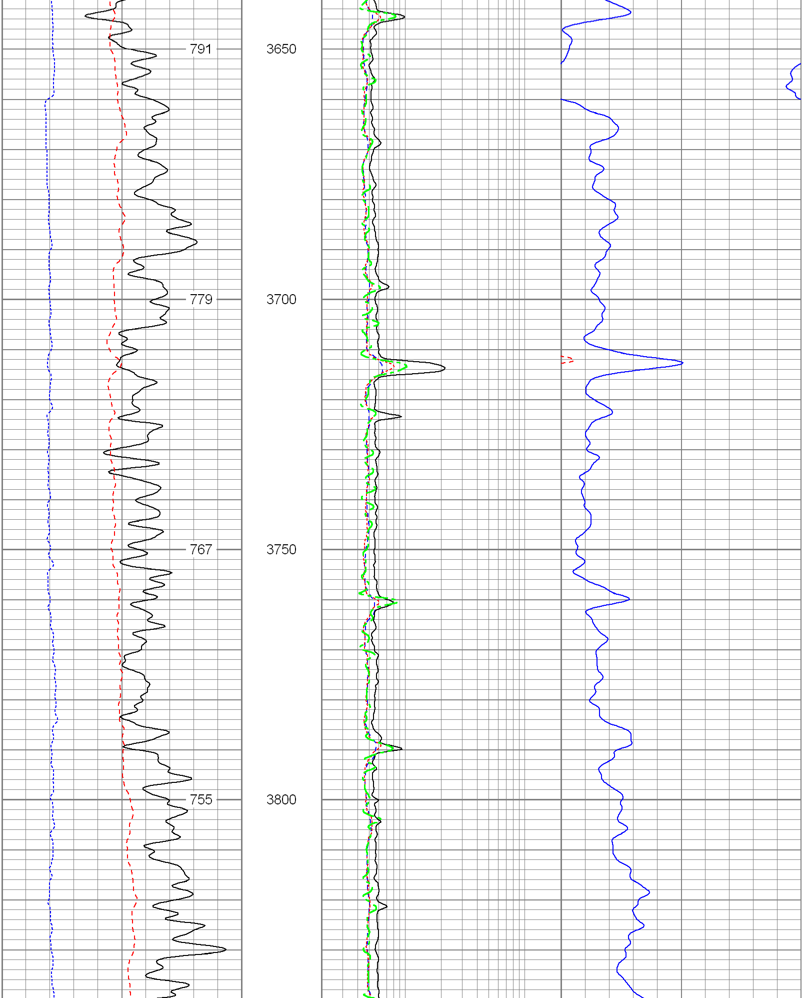
Database File:	11990.db
Dataset Pathname:	final
Presentation Format:	pdc1
Dataset Creation:	Wed Sep 07 05:15:55 2011
Charted by:	Depth in Feet scaled 1:240

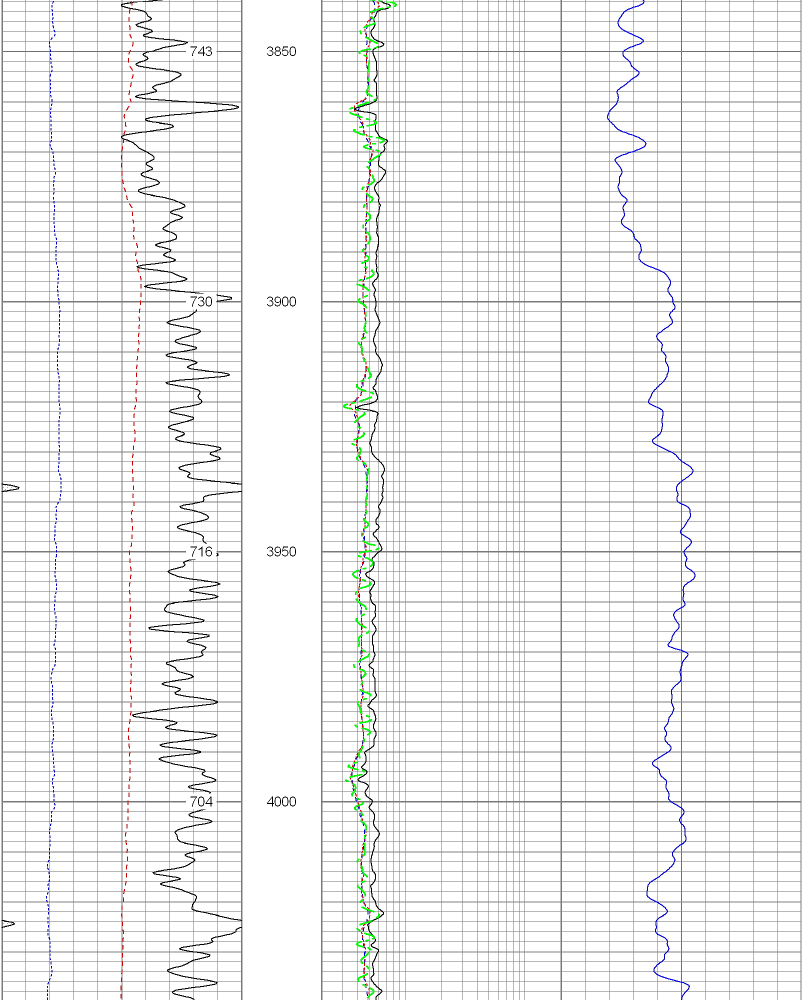
6	Density Caliper (in)	16
30	Gamma Ray (GAPI)	130
0	SP (mV)	100
	ABHV (ft3)	

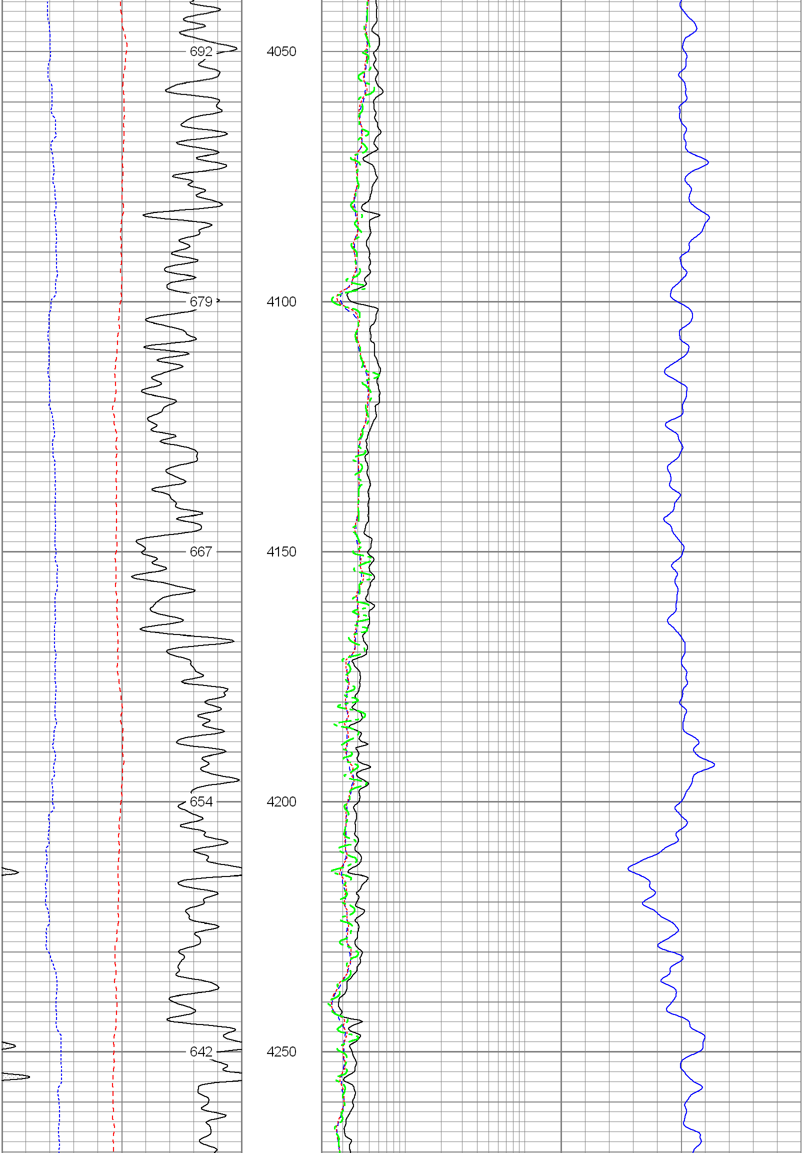
2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200
2	Rt (Ohm-m)	200

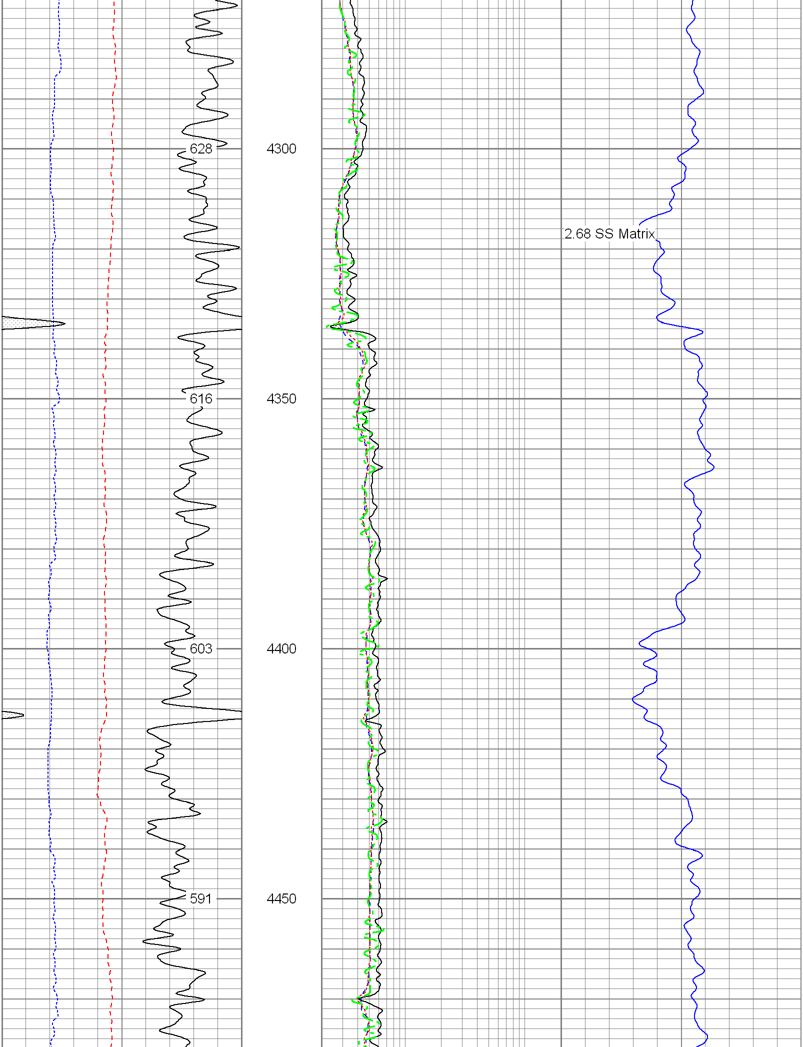
20	Density Porosity (pu)	0
20	Neutron Porosity (pu)	0

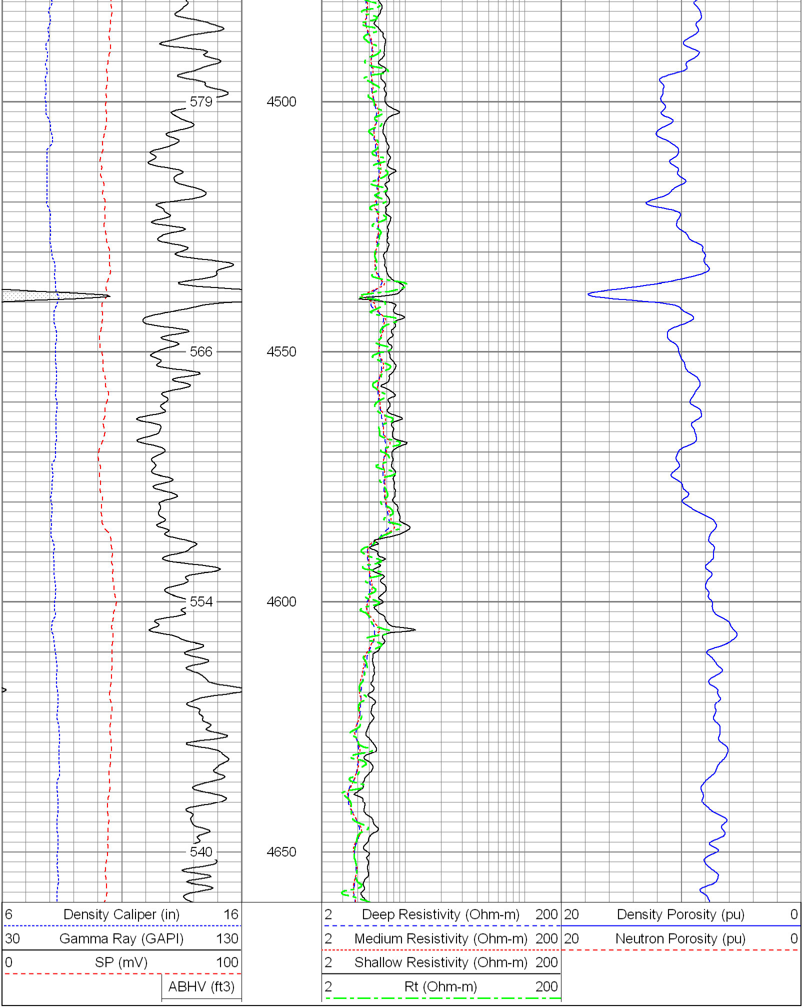












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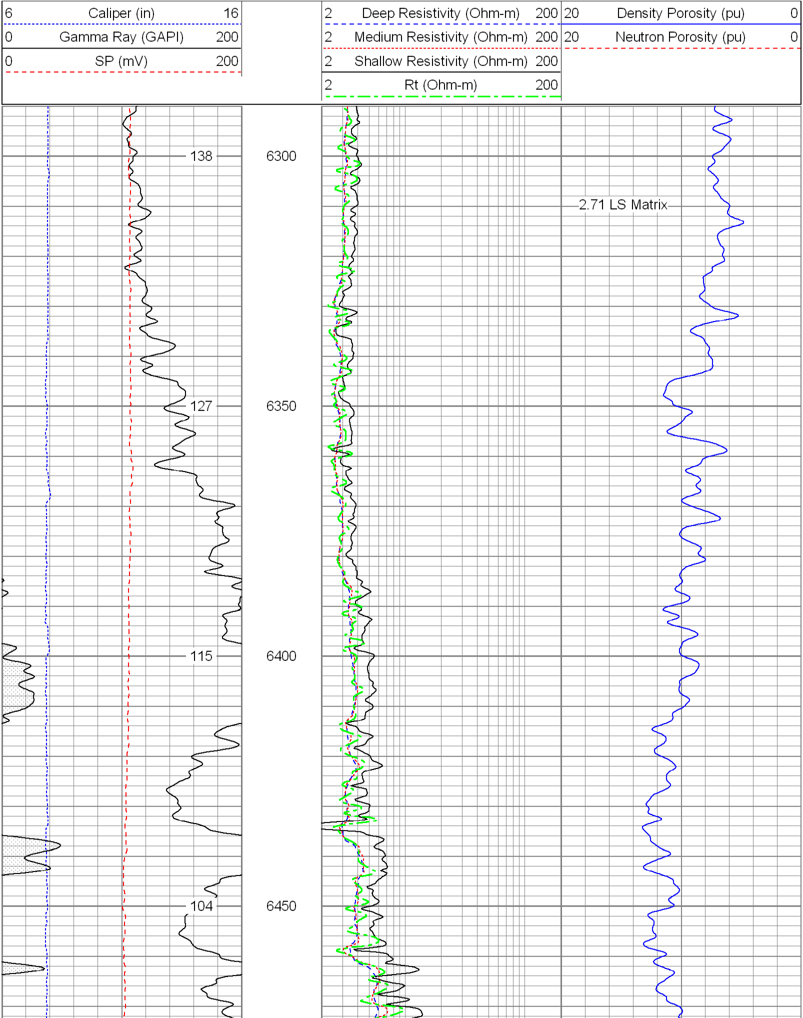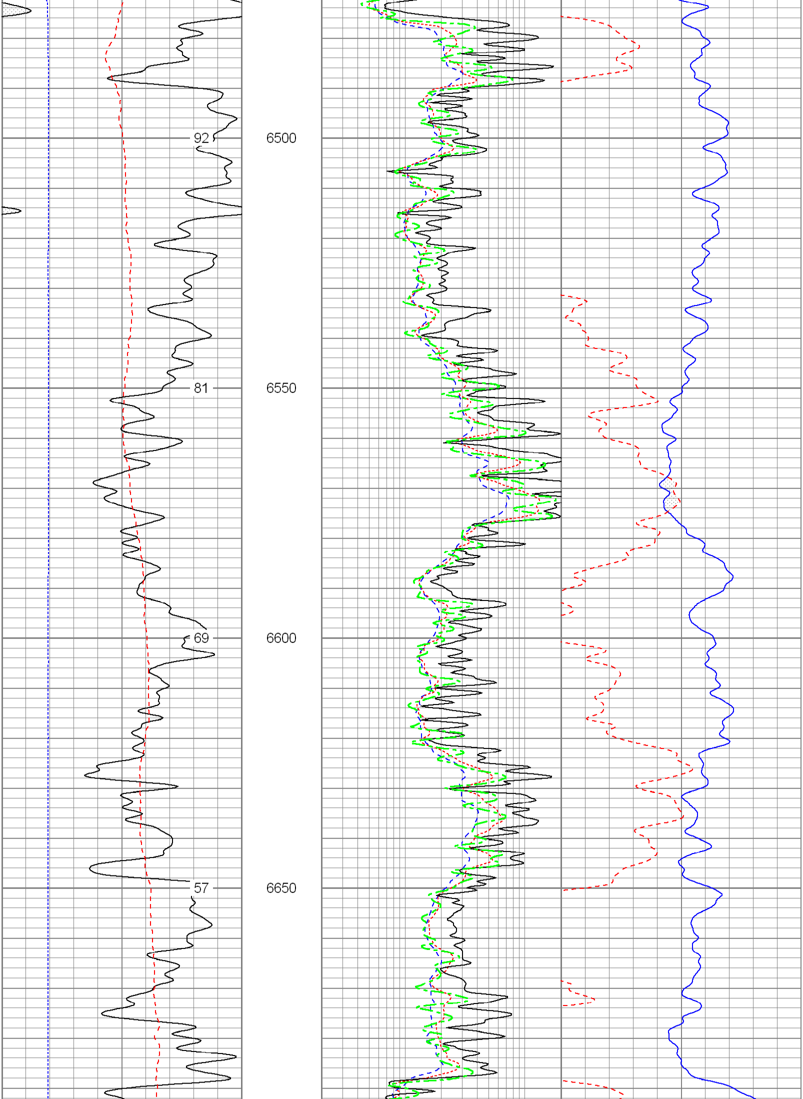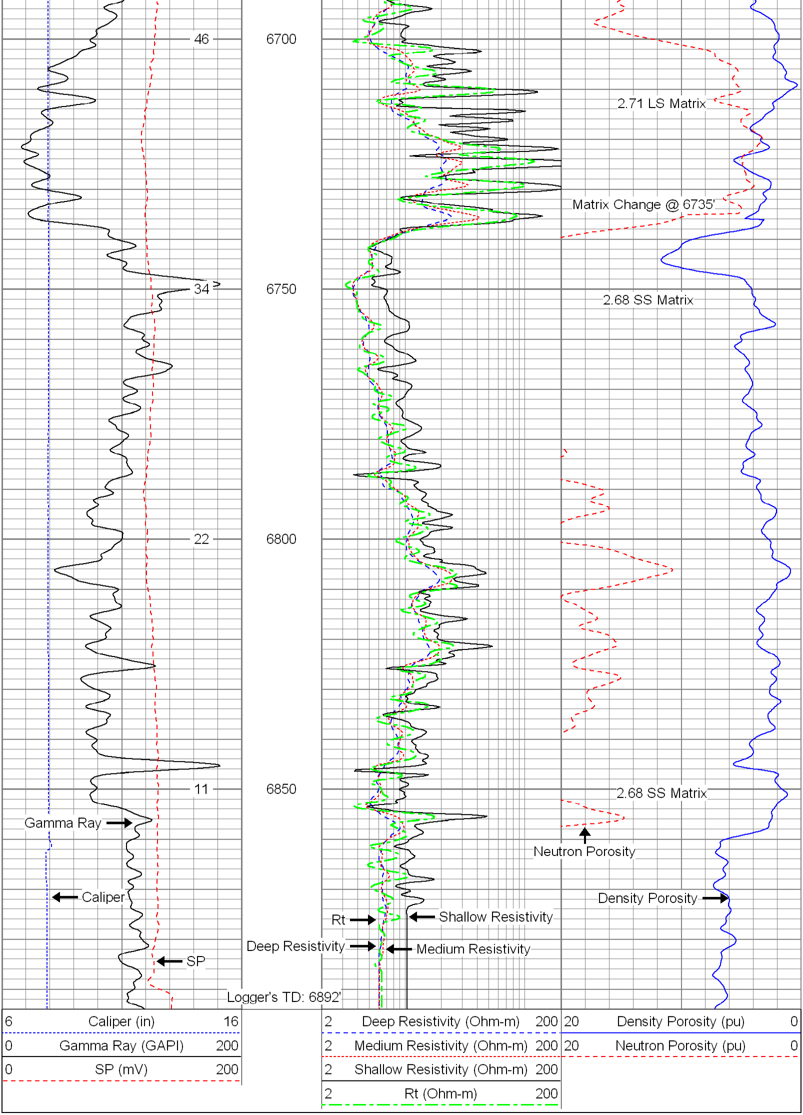
6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
0 SP (mV) 200
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0
138
6300
2.71 LS Matrix
127
6350
115
6400
104
6450