HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

PSI
PHOENIX SURVEYS, INC.

Company
Well
Field
County
State/Prv

Company **Bonanza Creek Energy, Inc.**
Well **Antelope 22-20**
Field **Wattenberg**
County **Weld** State/Province **Colorado**

Location SHL: 597' FNL & 699' FWL NWNW
BHL: 2022' FNL & 1938' FWL SENW
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	August 27, 2007		
Run Number	1		
Depth Driller	7129		
Depth Logger	7083		
Bottom Logged Interval	7083		
Top Log Interval	Casing		
Casing Driller	473		
Casing Logger	473		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.3 / 55		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.65 @ 92° F		
Rmf @ Meas. Temp	4.38 @ 92° F		
Rmc @ Meas. Temp	4.38 @ 92° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.21 @ 199° F		
Time Circulation Stopped	0800		
Time Logger on Bottom	1715		
Maximum Recorded Temperature	199° F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Gene Hudson	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

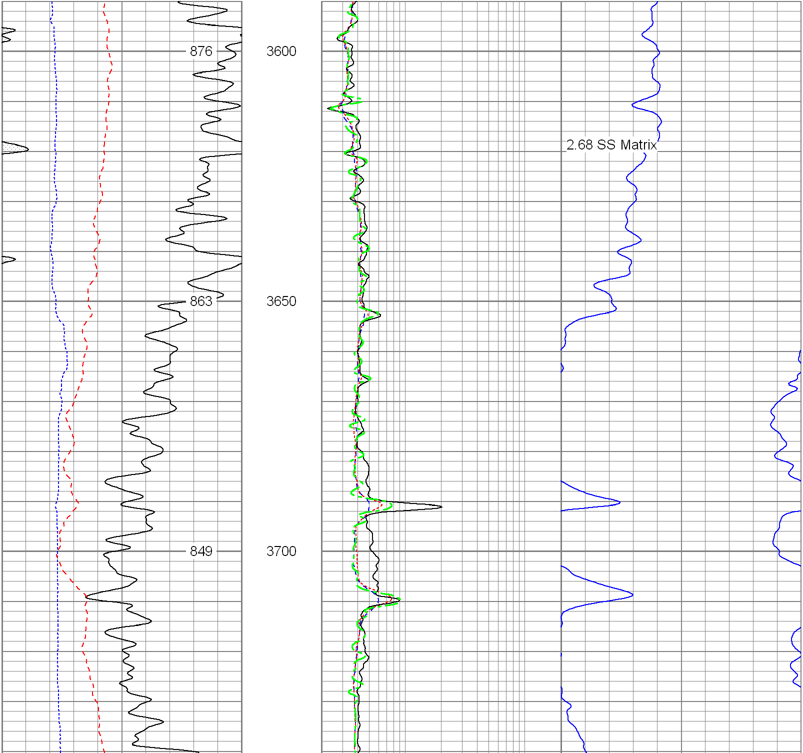
Annular volume calculated for 4-1/2" casing
Mid. Continent 1
Thank you for using Phoenix Surveys!!
API #: 05-123-34042-00

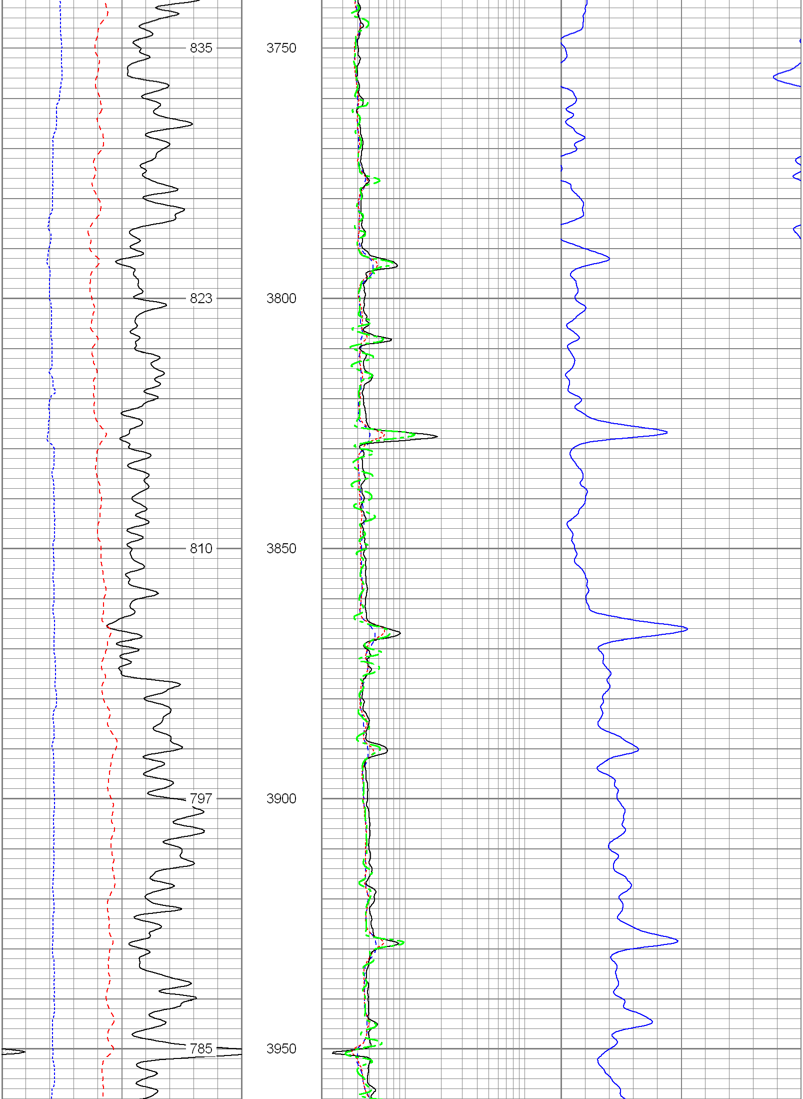
Database File: 11957.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Sat Aug 27 17:38:37 2011
Charted by: Depth in Feet scaled 1:240

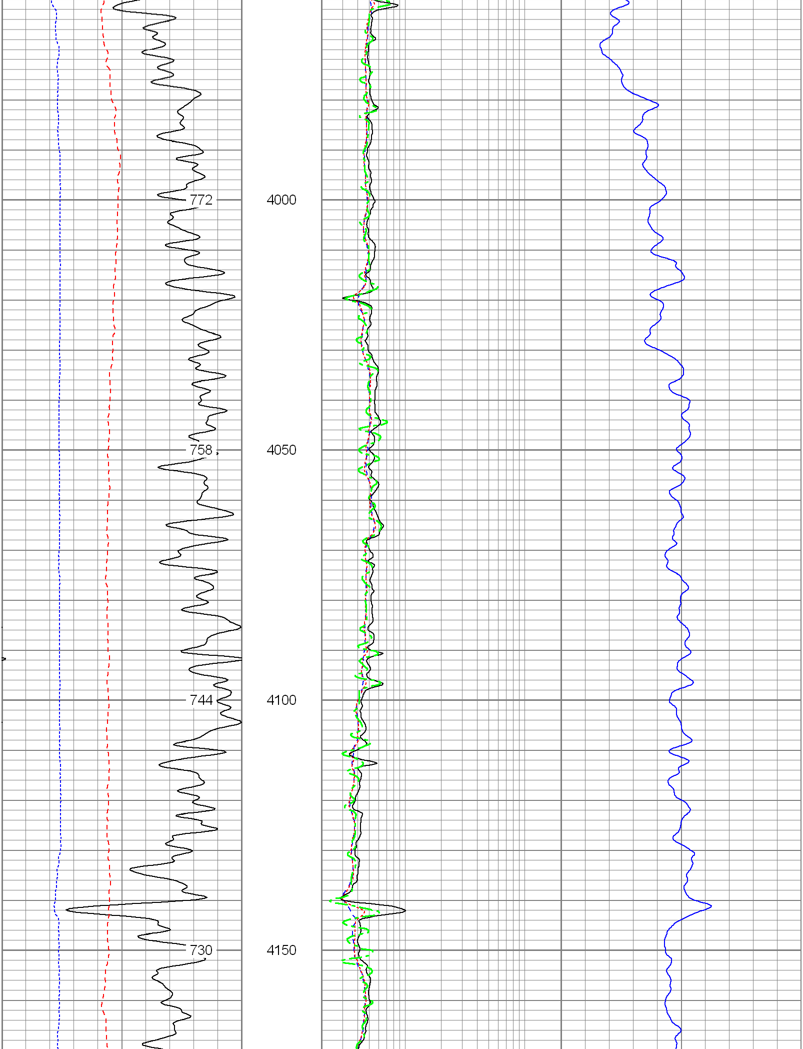
6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
90 SP (mV) 190
ABHV (ft3)

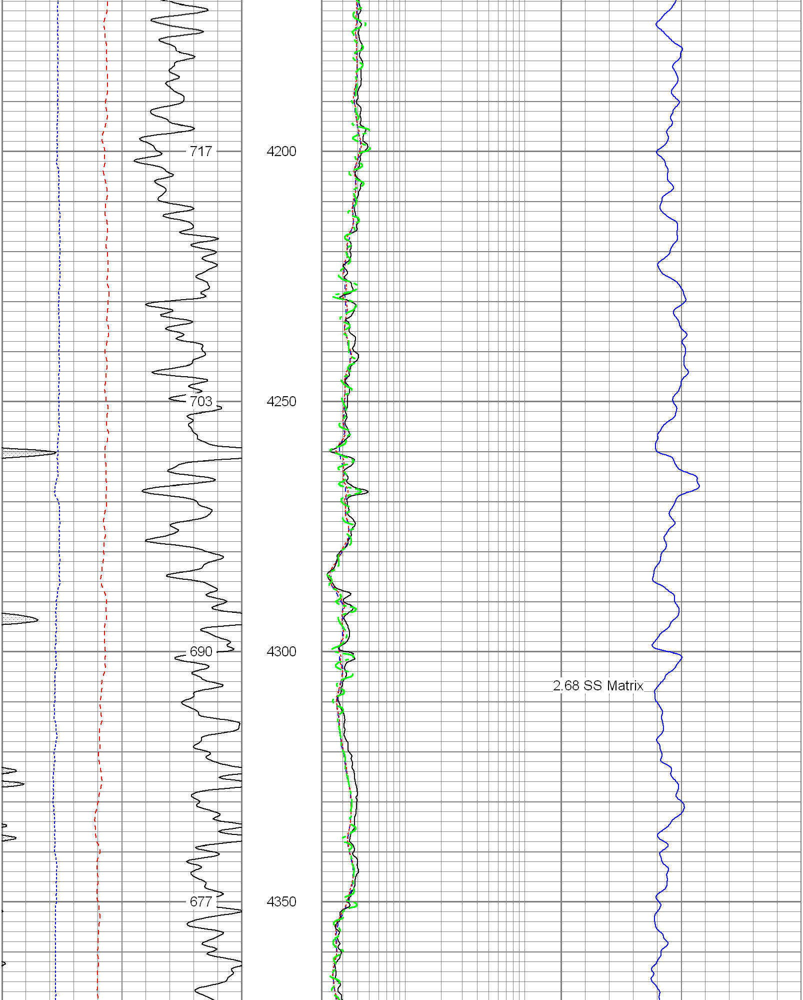
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200
2 Rt (Ohm-m) 200

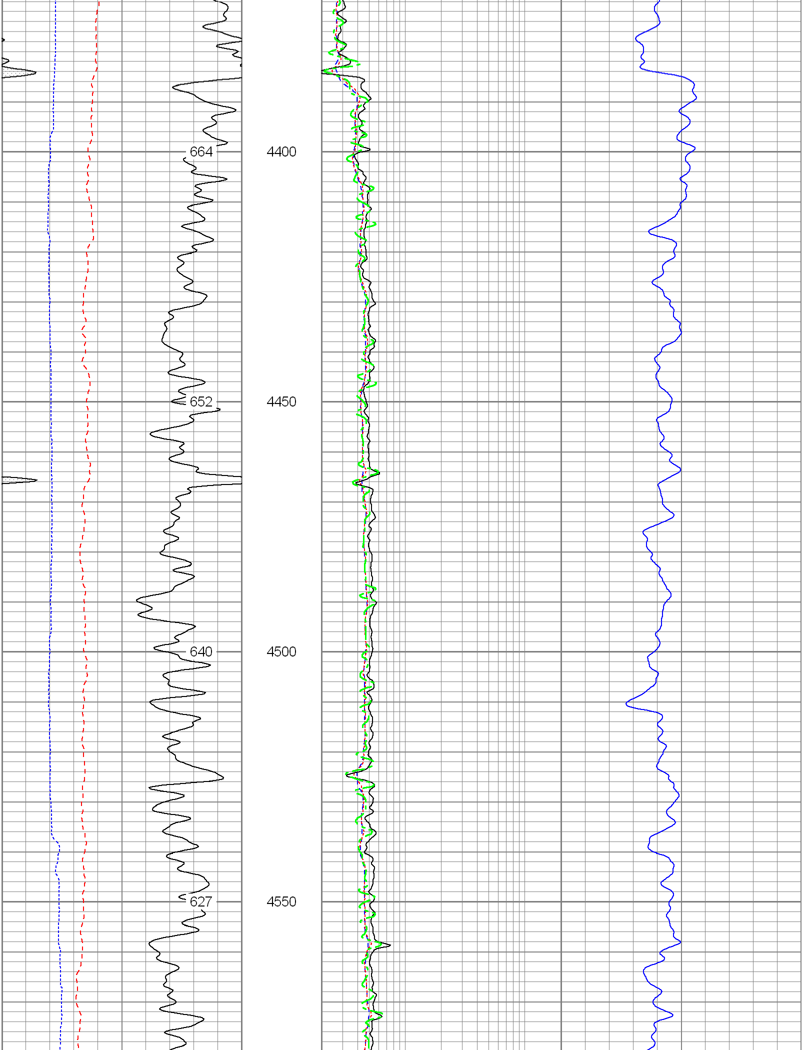
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

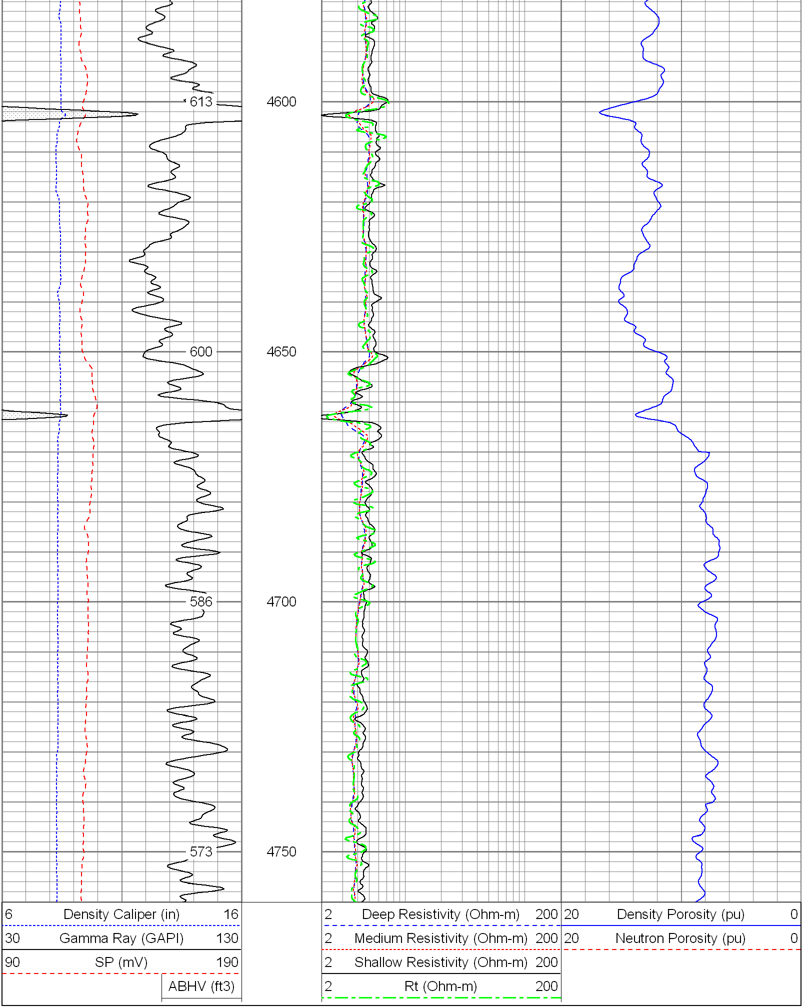












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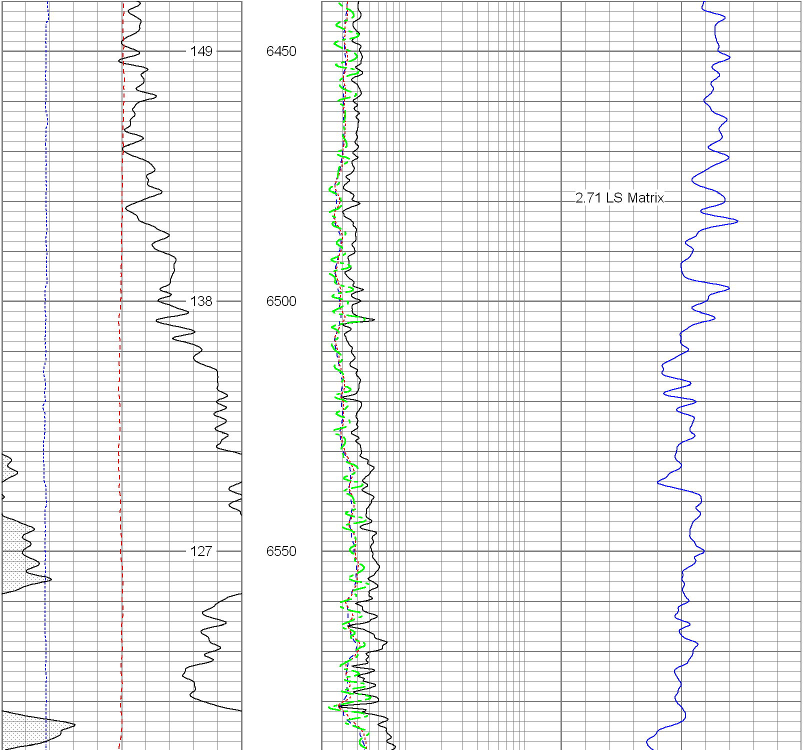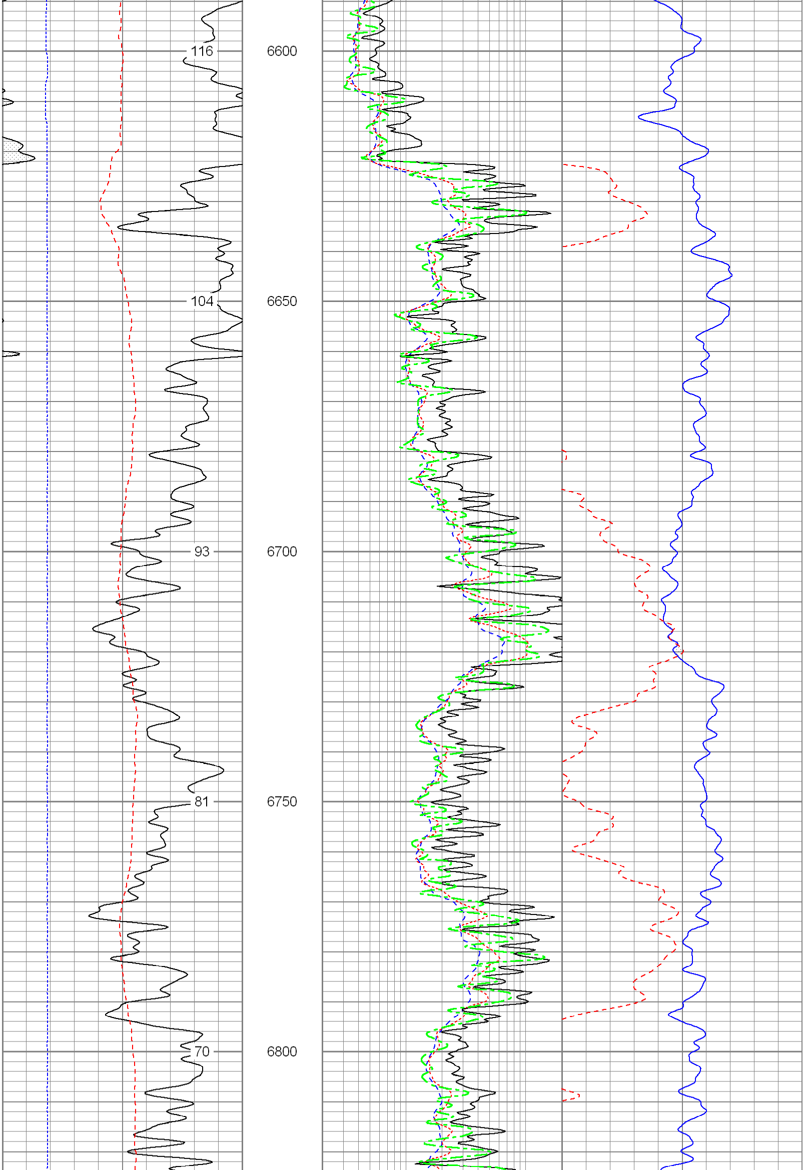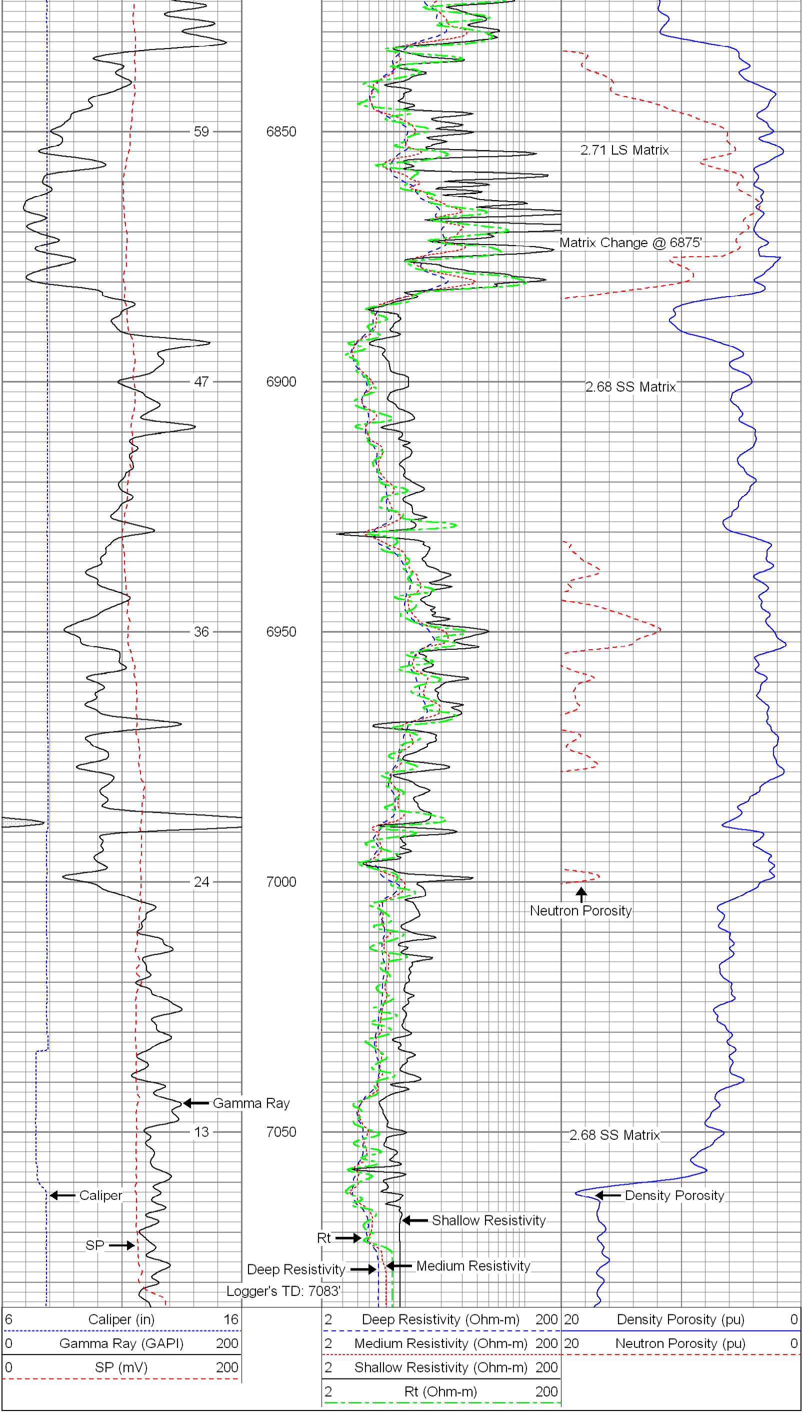20 Neutron Porosity (pu) 0