PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
DUAL INDUCTION

Company
Well
Field
County
State/Prv

Company	Bonanza Creek Operating Co. LLC		
Well	Antelope 24-19		
Field	Wattenberg		
County	Weld	State/Province	Colorado

Location
662' FSL & 1920' FWL
SE SW
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	December 2, 2010		
Run Number	1		
Depth Driller	6730		
Depth Logger	6701		
Bottom Logged Interval	6701		
Top Log Interval	Casing		
Casing Driller	434		
Casing Logger	456		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.1 / 40		
pH / Fluid Loss	8.5 / 9.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.57 @ 75 F		
Rmf @ Meas. Temp	2.27 @ 75 F		
Rmc @ Meas. Temp	4.67 @ 75 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.35 @ 198 F		
Time Circulation Stopped	0600		
Time Logger on Bottom	1500		
Maximum Recorded Temperature	198 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Randy Conley		
Witnessed By	Brian Cunningham	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

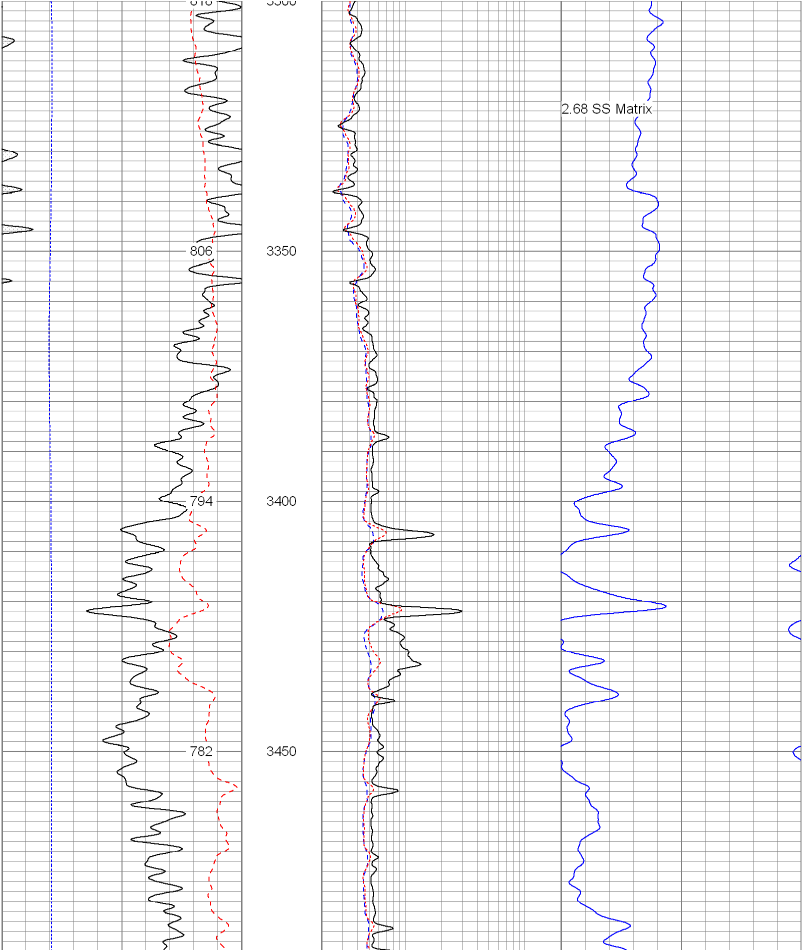
Annular volume calculated for 4.5" casing
Xtreme Rig 14
Thank you for using Phoenix Surveys!!
API #: 05-123-32352-00

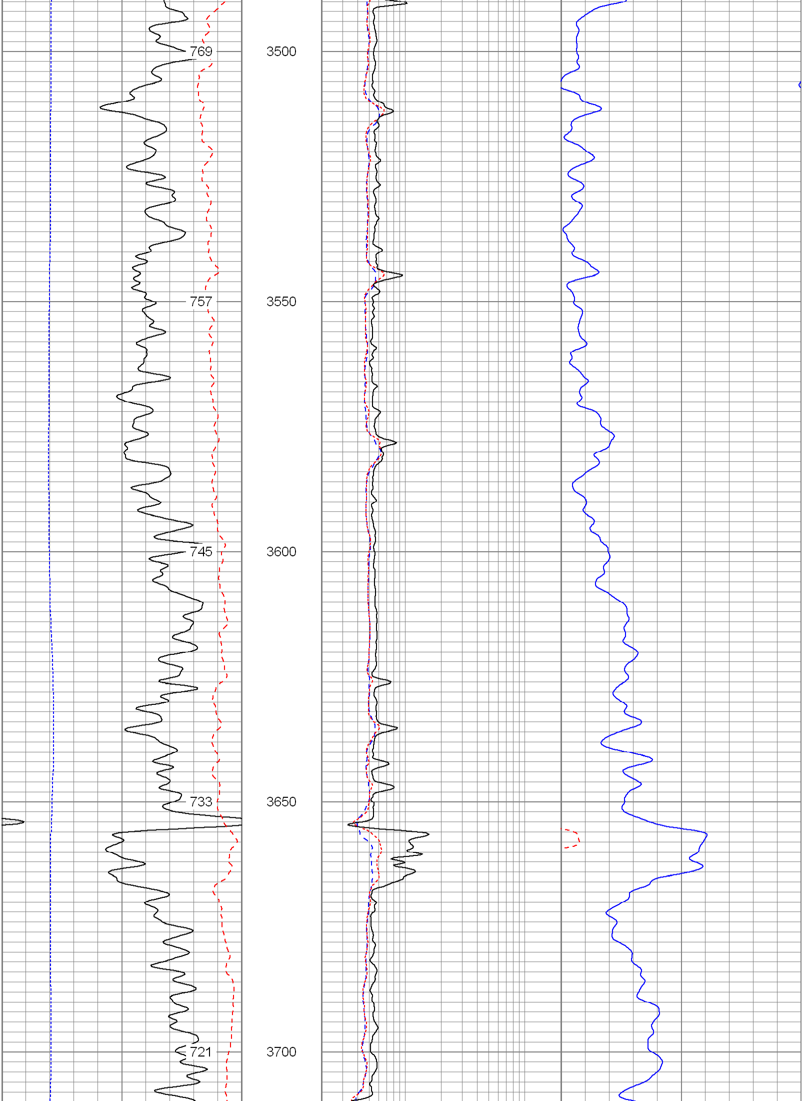
Database File:	11276.db
Dataset Pathname:	final
Presentation Format:	pdc1
Dataset Creation:	Thu Dec 02 15:30:19 2010
Charted by:	Depth in Feet scaled 1:240

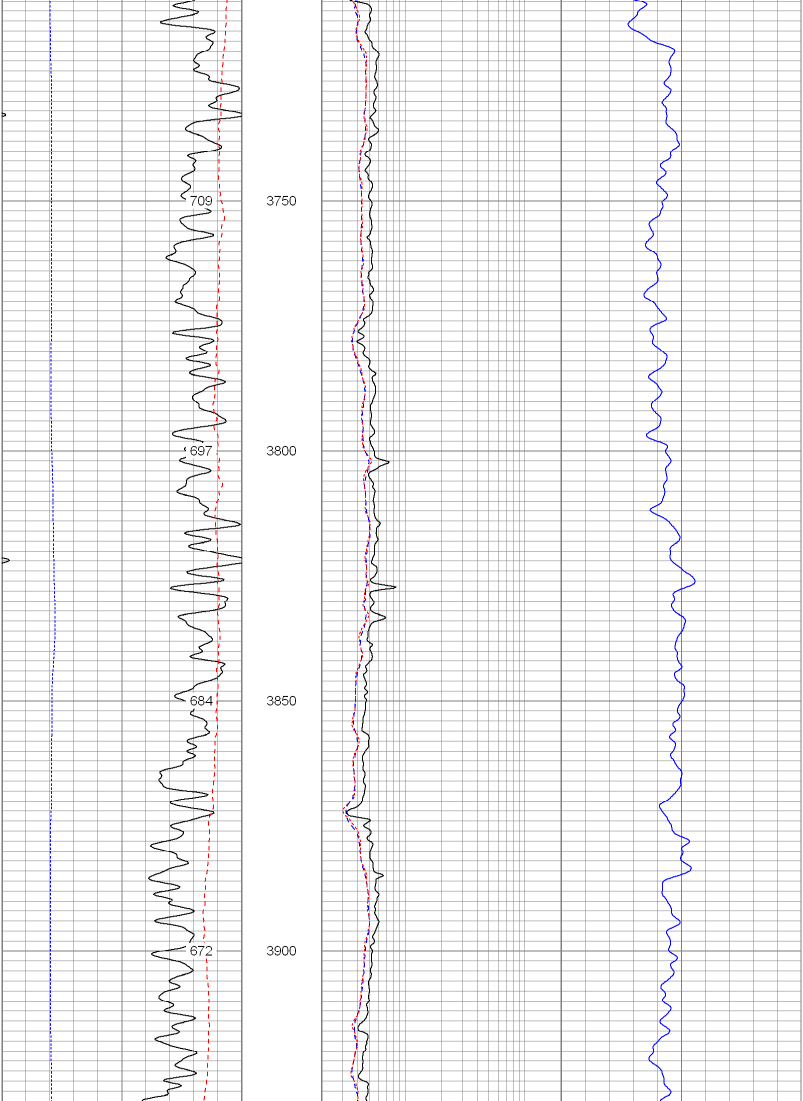
6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
70 SP (mV) 170
ABHV (ft3)

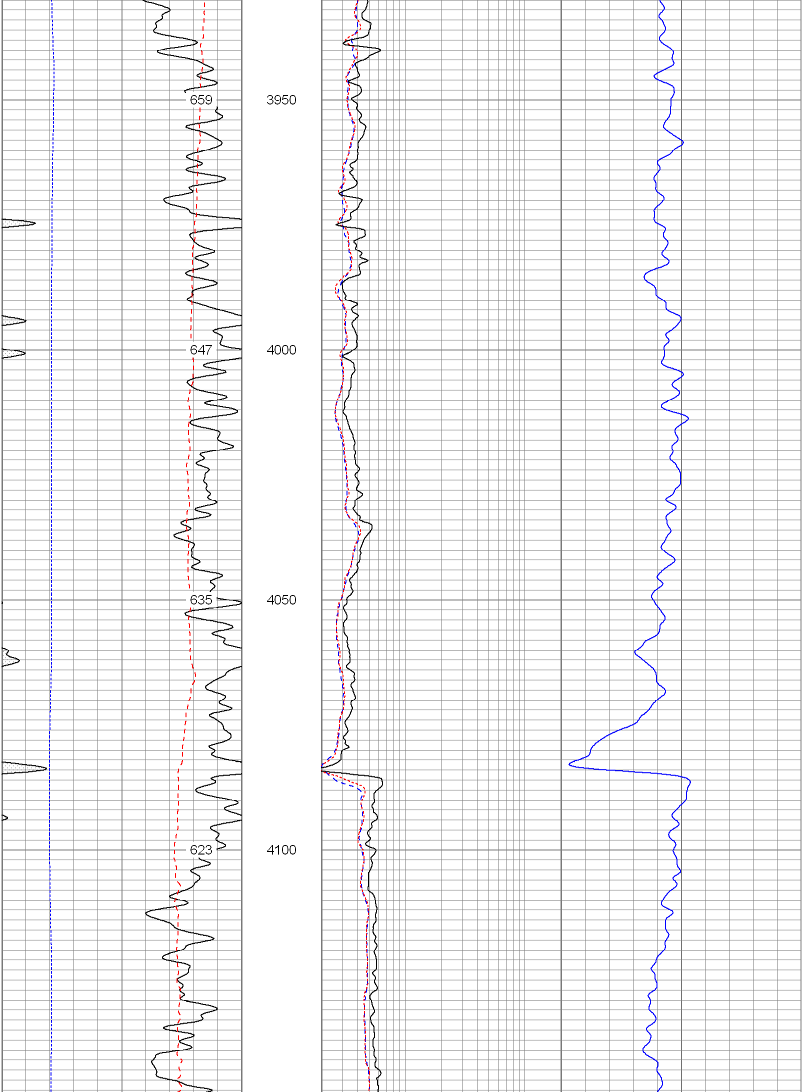
2 Deep Resistivity (Ohm-m) 200
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200

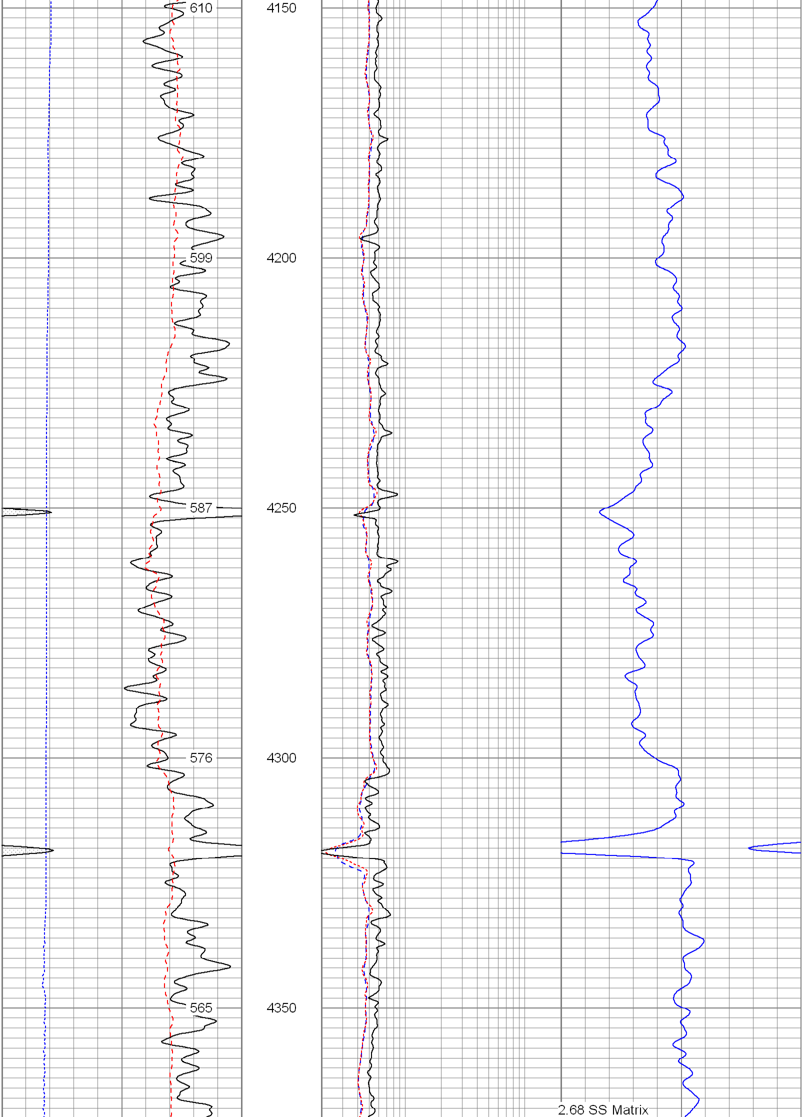
20 Density Porosity (pu) 0
20 Neutron Porosity (pu) 0

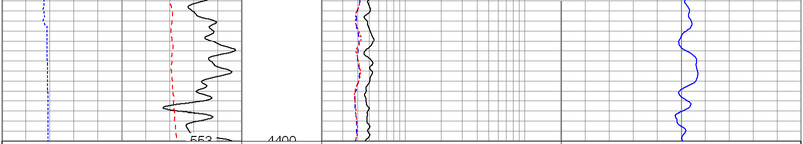












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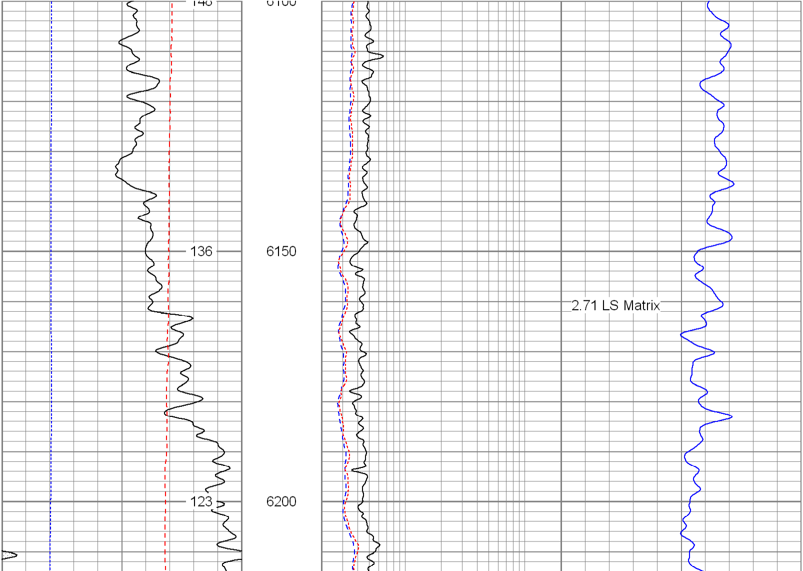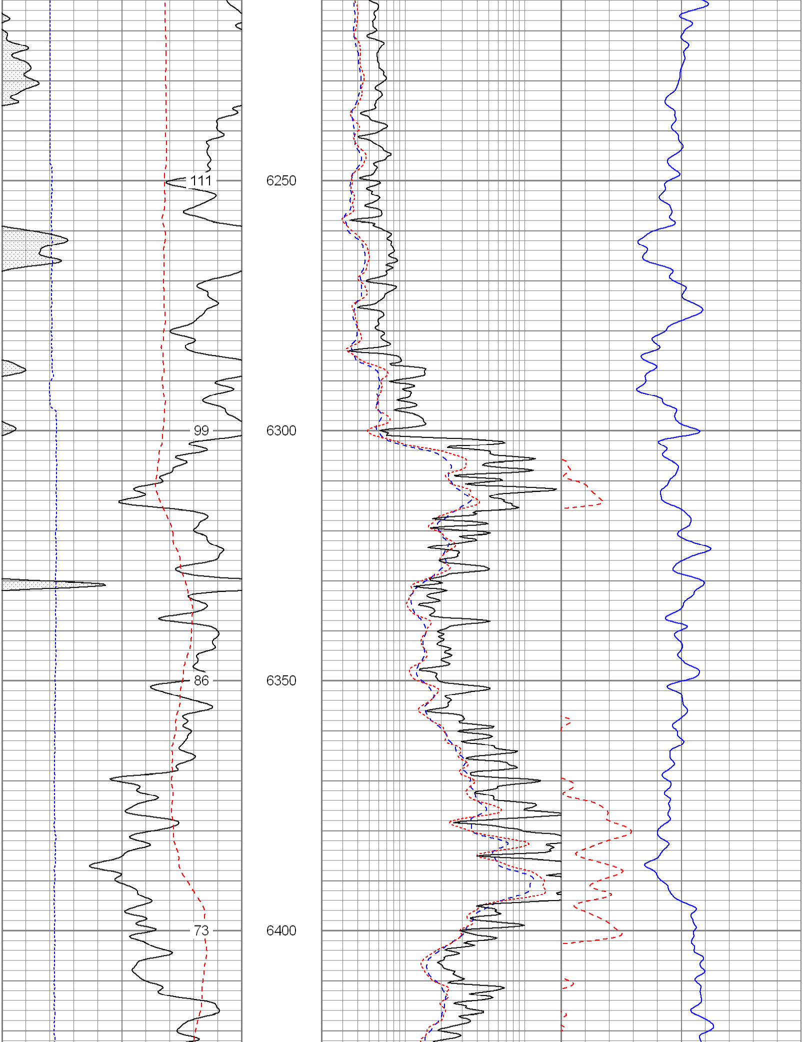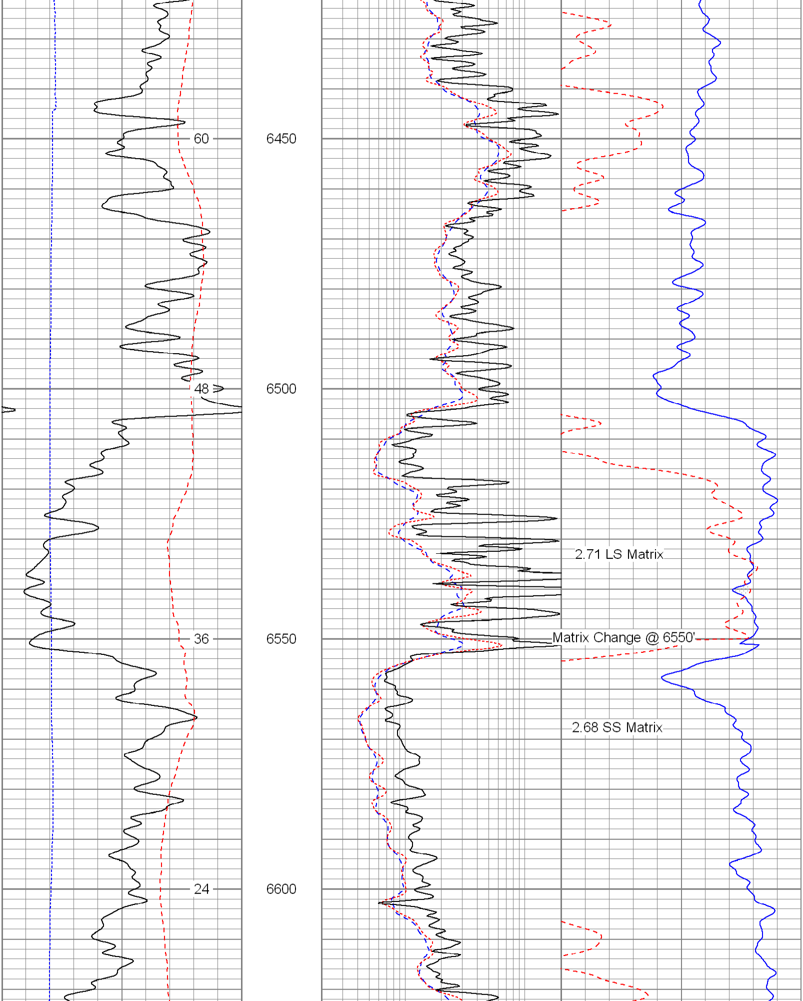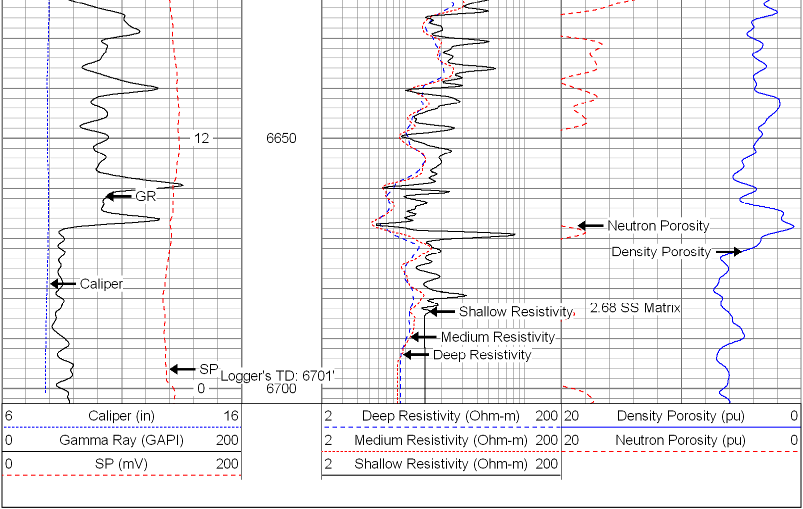6 Caliper (in) 16	2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
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