PSI
PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
DUAL INDUCTION

Company
Well
Field
County
State/Prv

Company	Bonanza Creek Operating Co. LLC		
Well	Antelope 13-18		
Field	Wattenberg		
County	Weld	State/Province	Colorado

Location
SHL: 1437' FSL & 1394' FWL NE SW
BHL: 2111' FSL & 746' FWL NW SW
Sec - 18, Twp - 5N, Rge - 62W

Other Services
None

Elevation
K.B. 4608
D.F. 4607
G.L. 4598

Permanent Datum	GL	Elevation	4598
Log Measured From	KB		
Drilling Measured From	KB		

Date	September 12, 2010		
Run Number	1		
Depth Driller	6791		
Depth Logger	6795		
Bottom Logged Interval	6795		
Top Log Interval	Casing		
Casing Driller	433		
Casing Logger	433		
Bit Size	7-7/8"		
Type Fluid in Hole	Polymer Gel		
Density / Viscosity	8.8 / 50		
pH / Fluid Loss	9.0 / 10.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.05 @ 70° F		
Rmf @ Meas. Temp	2.29 @ 70° F		
Rmc @ Meas. Temp	3.81 @ 70° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.07 @ 199° F		
Time Circulation Stopped	2230 09/11/10		
Time Logger on Bottom	0900 09/12/10		
Maximum Recorded Temperature	199° F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Maciej Staron		
Witnessed By	Brian Cunningham	Kurt Dodge	Robin Brackman

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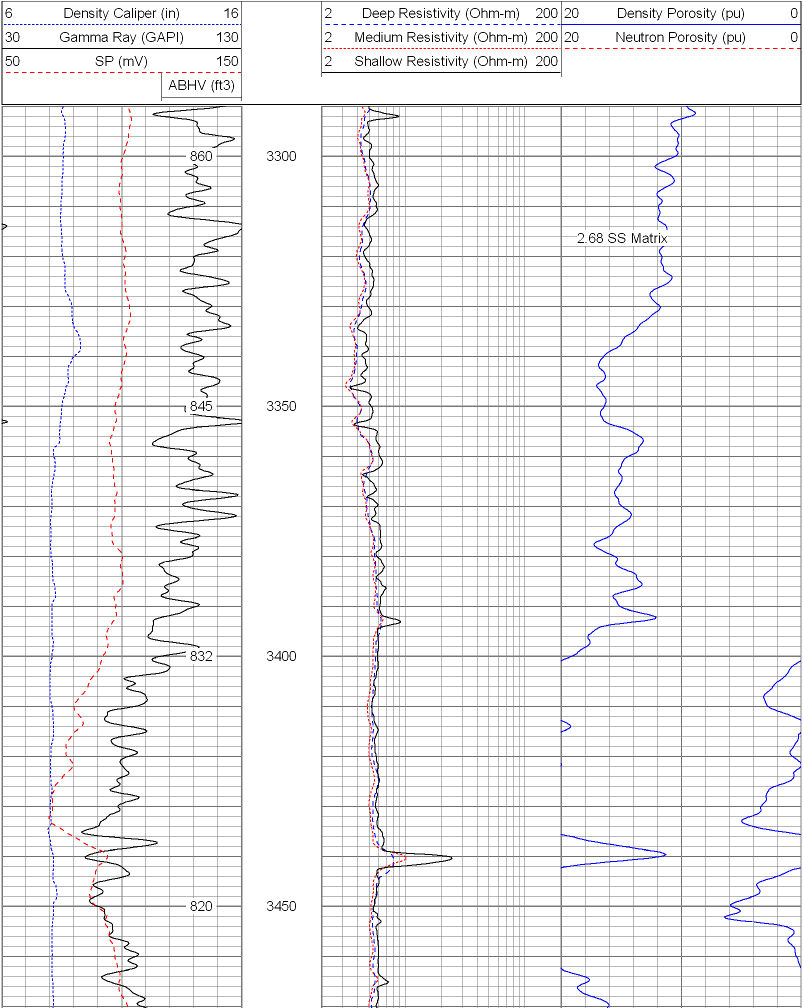
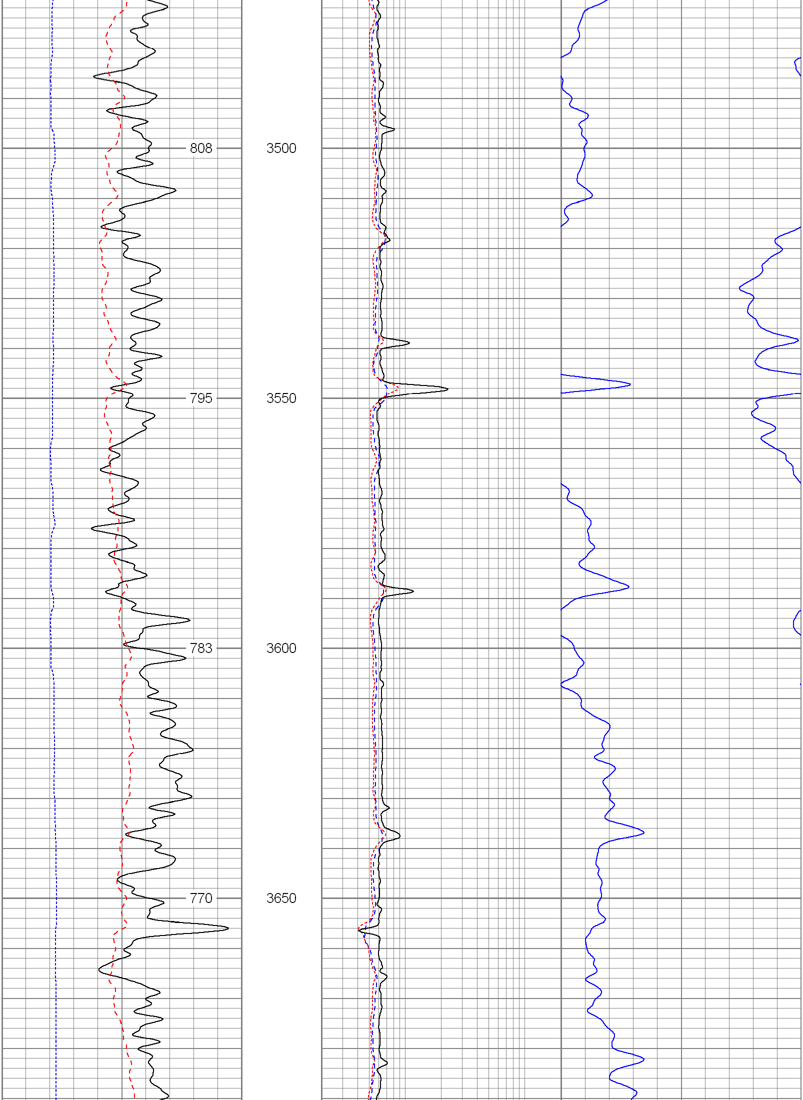
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

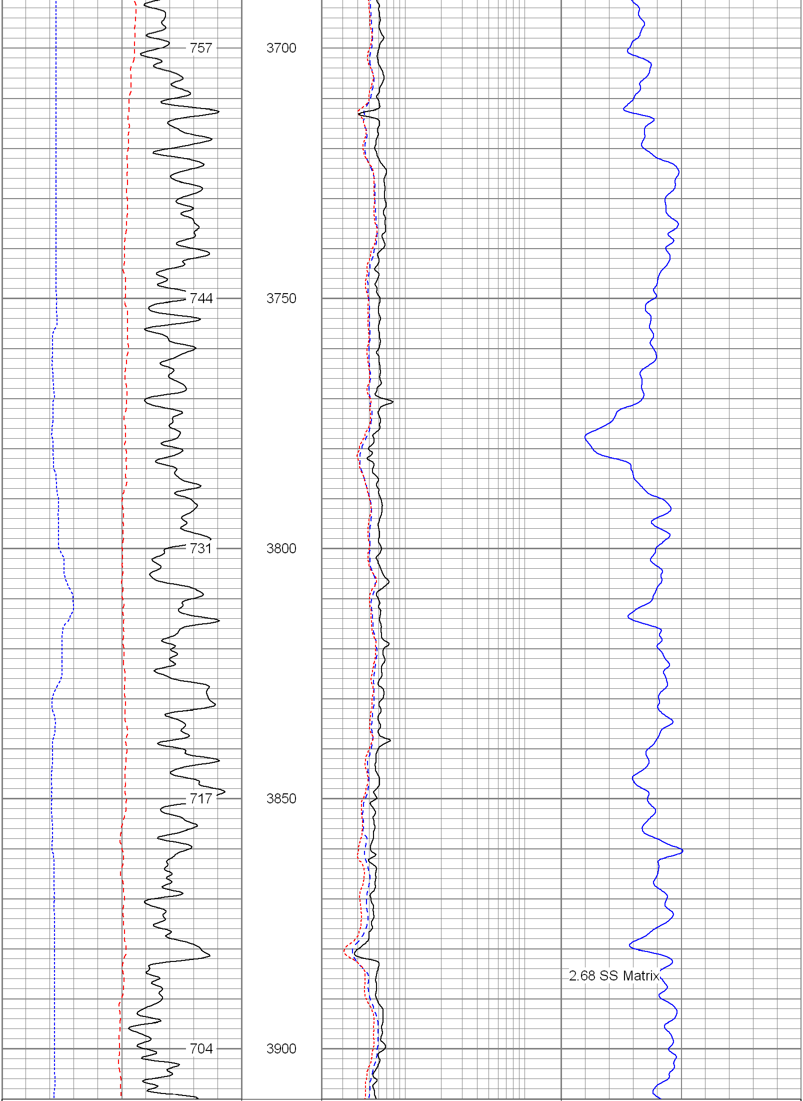
Comments

Annular volume calculated for 4.5" casing
Midcontinent Drilling Rig 1
Thank you for using Phoenix Surveys!!
API #: 05-123-31852-0000

Database File: 10918.db
Dataset Pathname: pass5
Presentation Format: pdc1
Dataset Creation: Sun Sep 12 09:07:08 2010 by Log Open-Cased 070814
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)		

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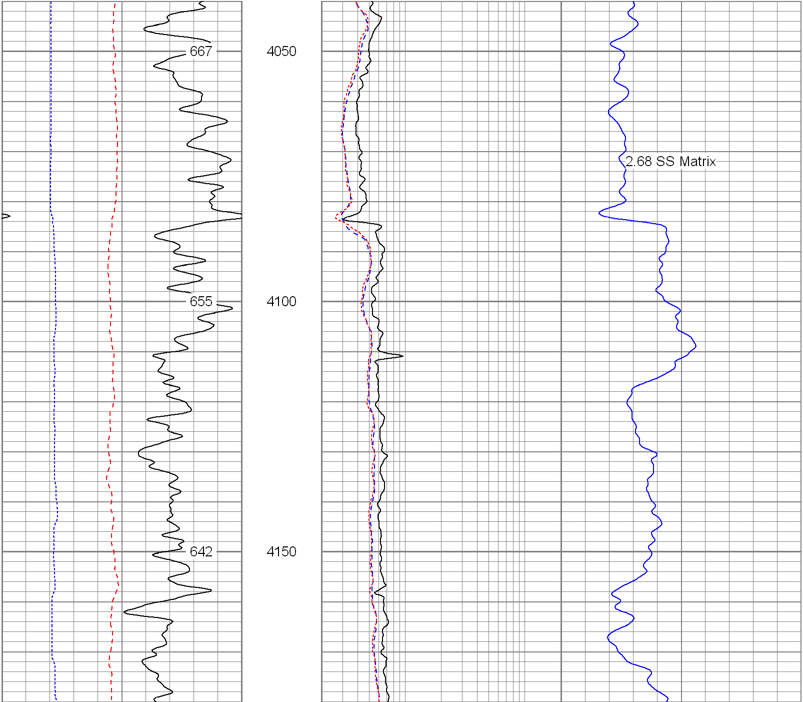

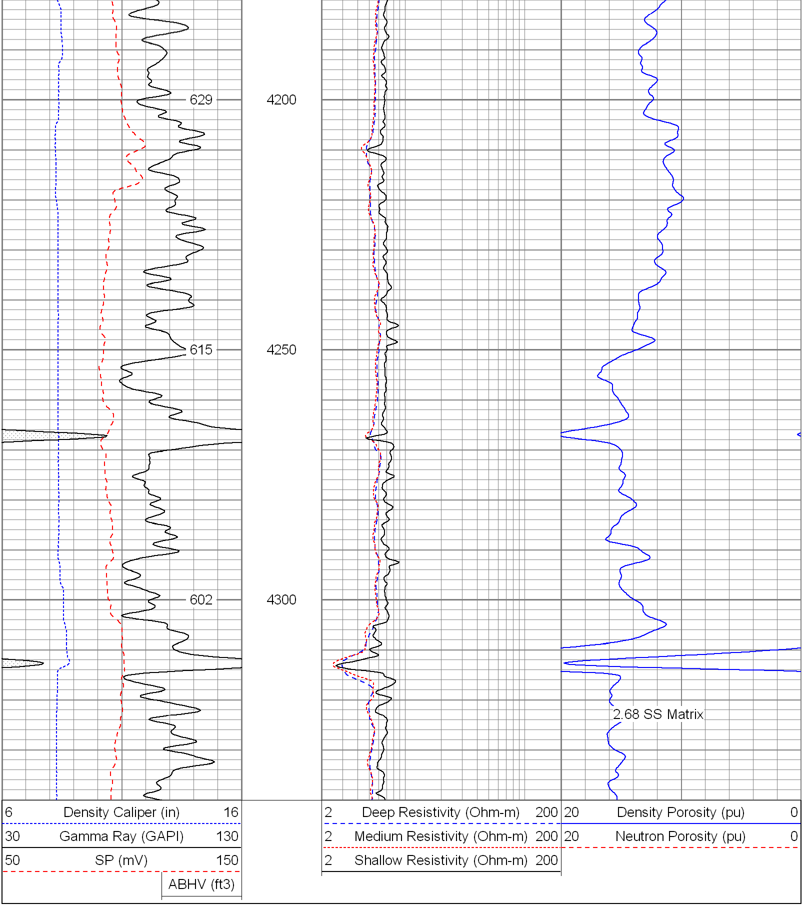

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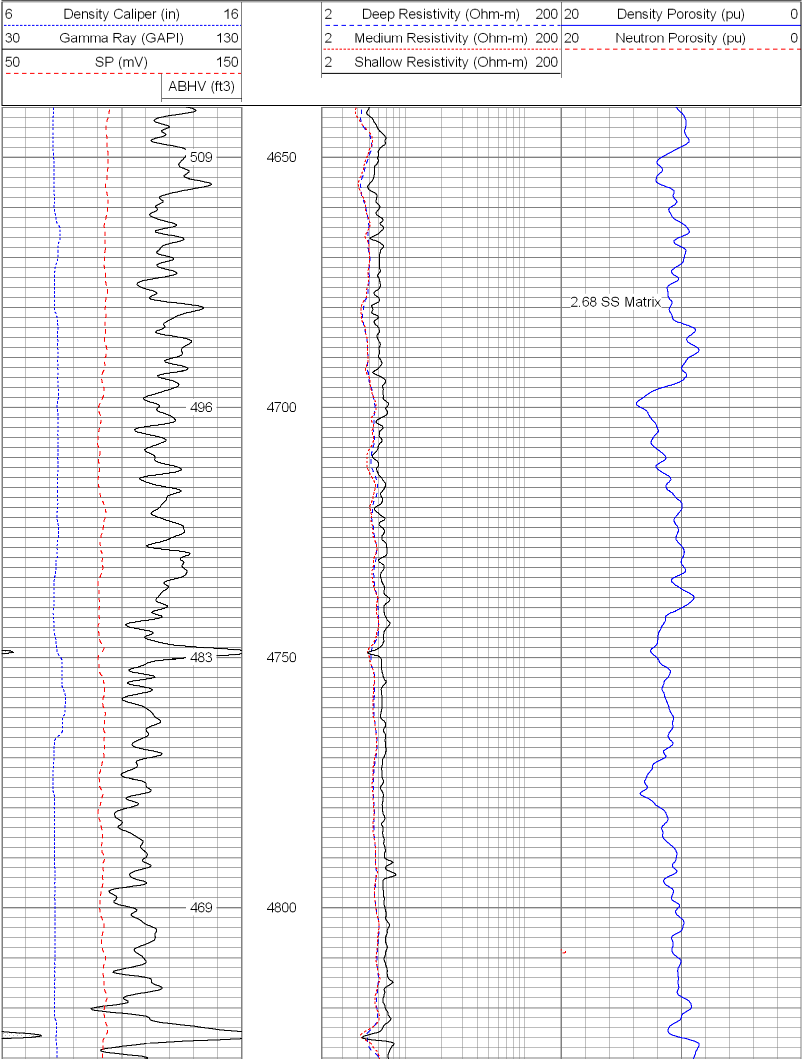

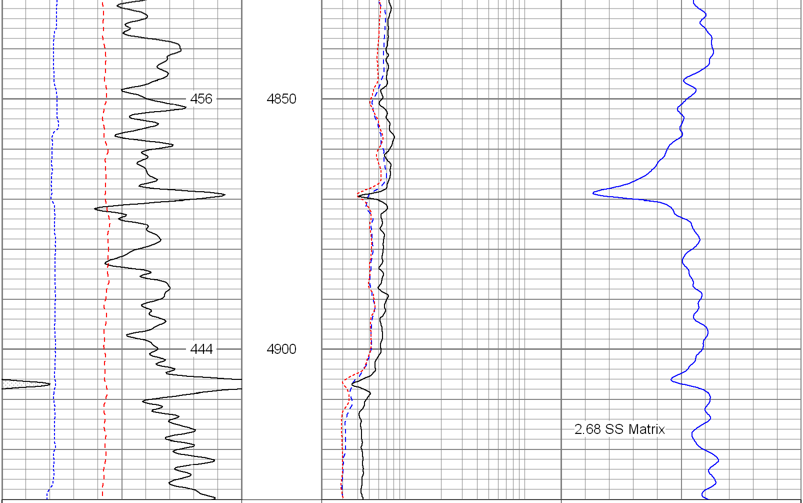

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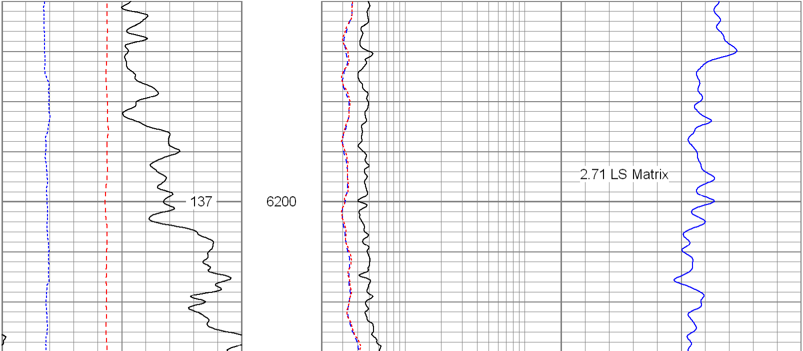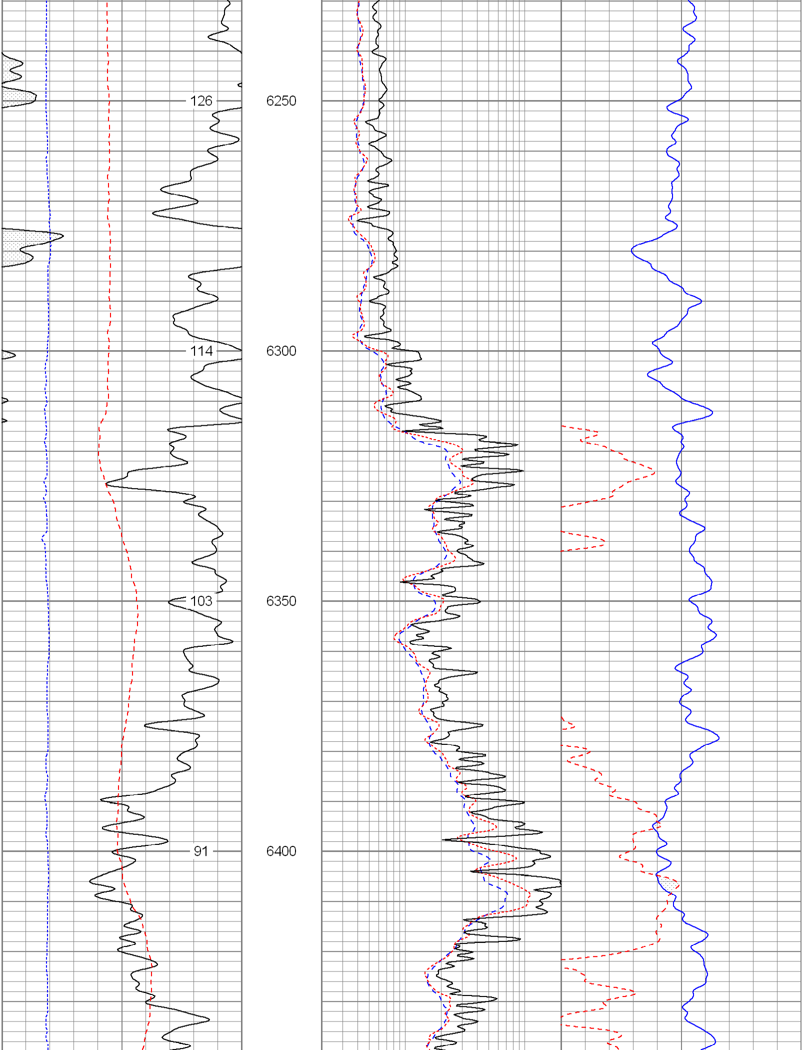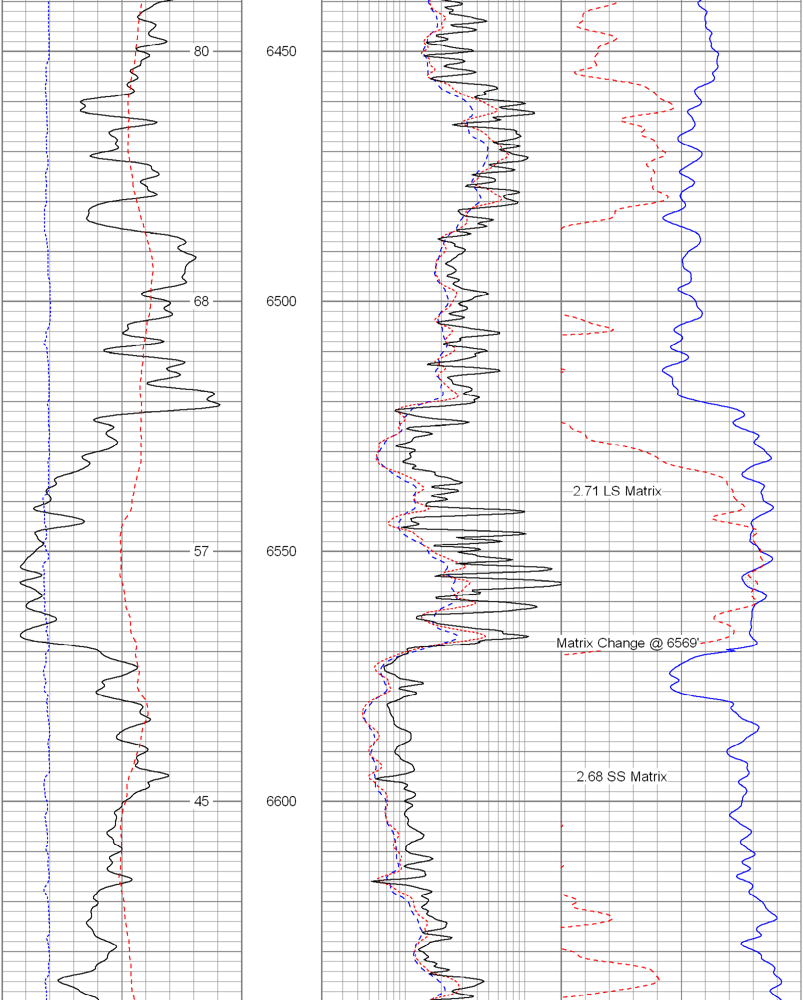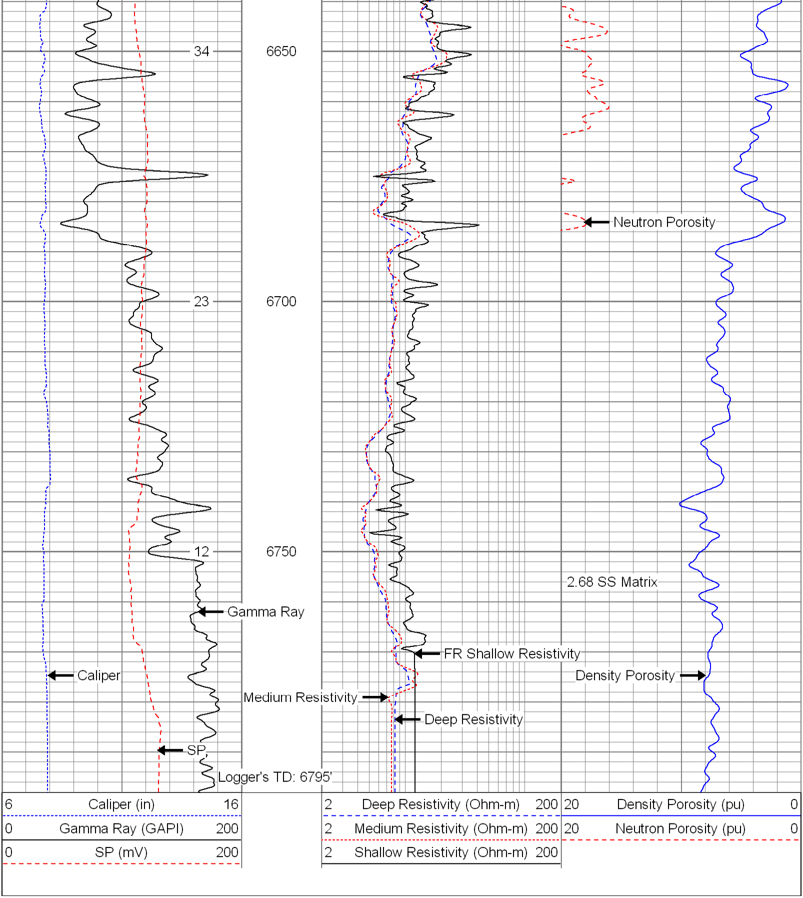6 Caliper (in) 16	2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
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