PSI
PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
DUAL INDUCTION

Company
Well
Field
County
State/Prv

Company **Bonanza Creek Operating Co. LLC**
Well **Antelope 11-18**
Field **Wattenberg**
County **Weld** State/Province **Colorado**

Location
660' FNL & 660' FWL
NWNW
Sec - 18, Twp - 5N, Rge - 62W

Other Services
None

Permanent Datum GL Elevation 4612
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4622
D.F. 4621
G.L. 4612

Date	May 12, 2010		
Run Number	1		
Depth Driller	6671		
Depth Logger	6691		
Bottom Logged Interval	6691		
Top Log Interval	Casing		
Casing Driller	411		
Casing Logger	411		
Bit Size	7-7/8"		
Type Fluid in Hole	Polymer Gel		
Density / Viscosity	8.9 / 50		
pH / Fluid Loss	9.0 / 9.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.90 @ 55° F		
Rmf @ Meas. Temp	3.00 @ 55° F		
Rmc @ Meas. Temp	4.75 @ 55° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.08 @ 198° F		
Time Circulation Stopped	1800		
Time Logger on Bottom	0545		
Maximum Recorded Temperature	198° F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Shaun Schuman		
Witnessed By	Steve Wolfe	Robin Brackman	

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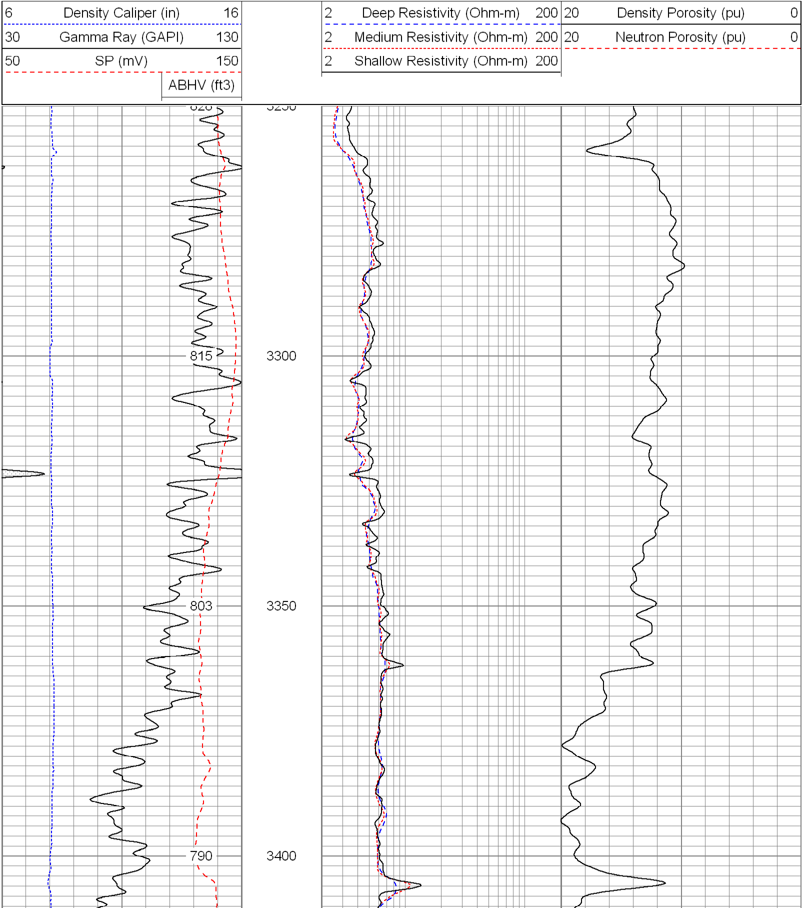
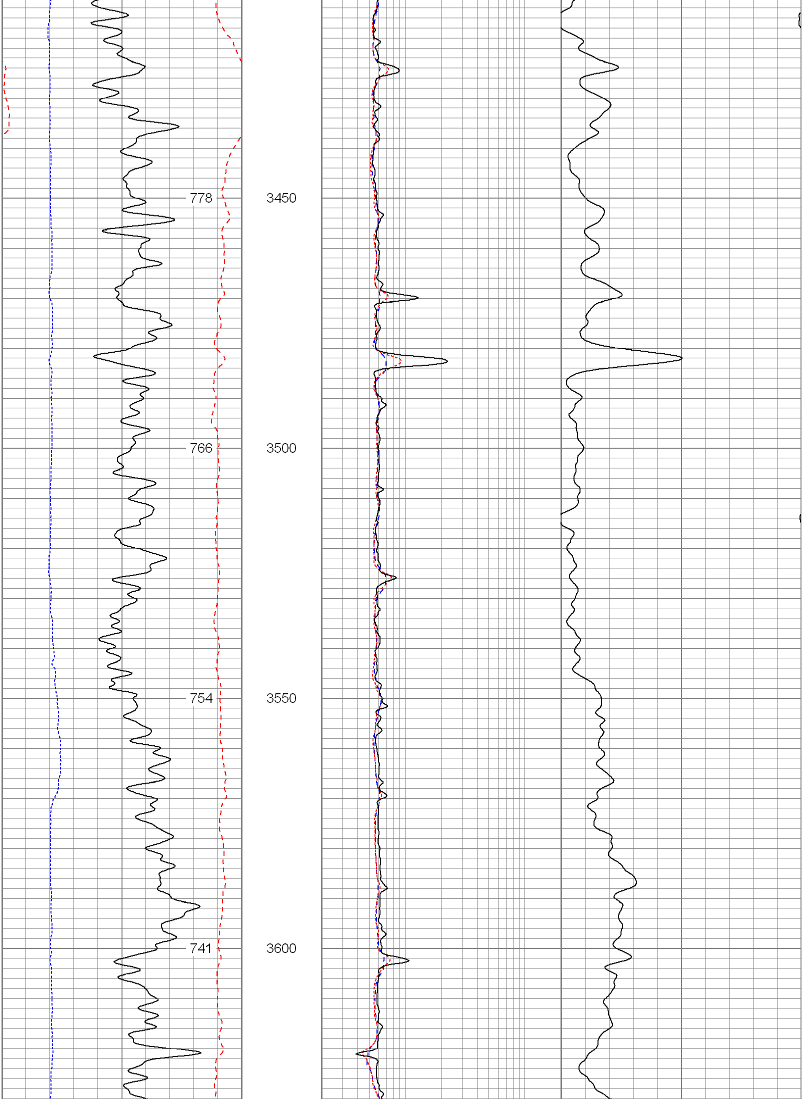
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

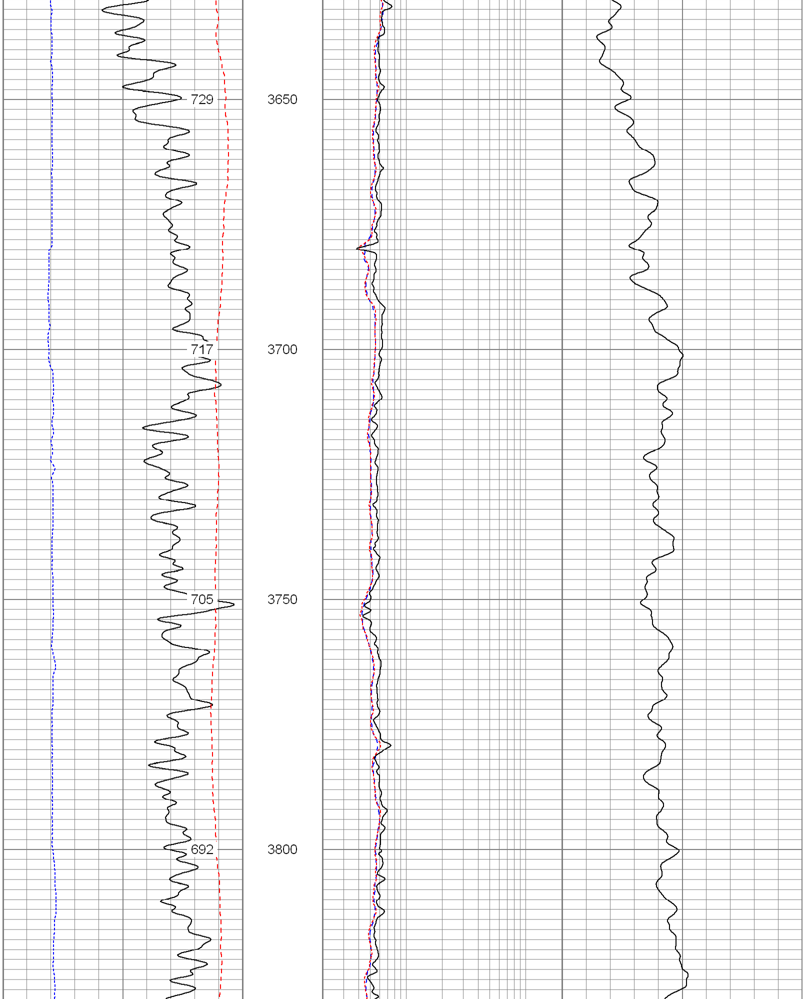
Comments

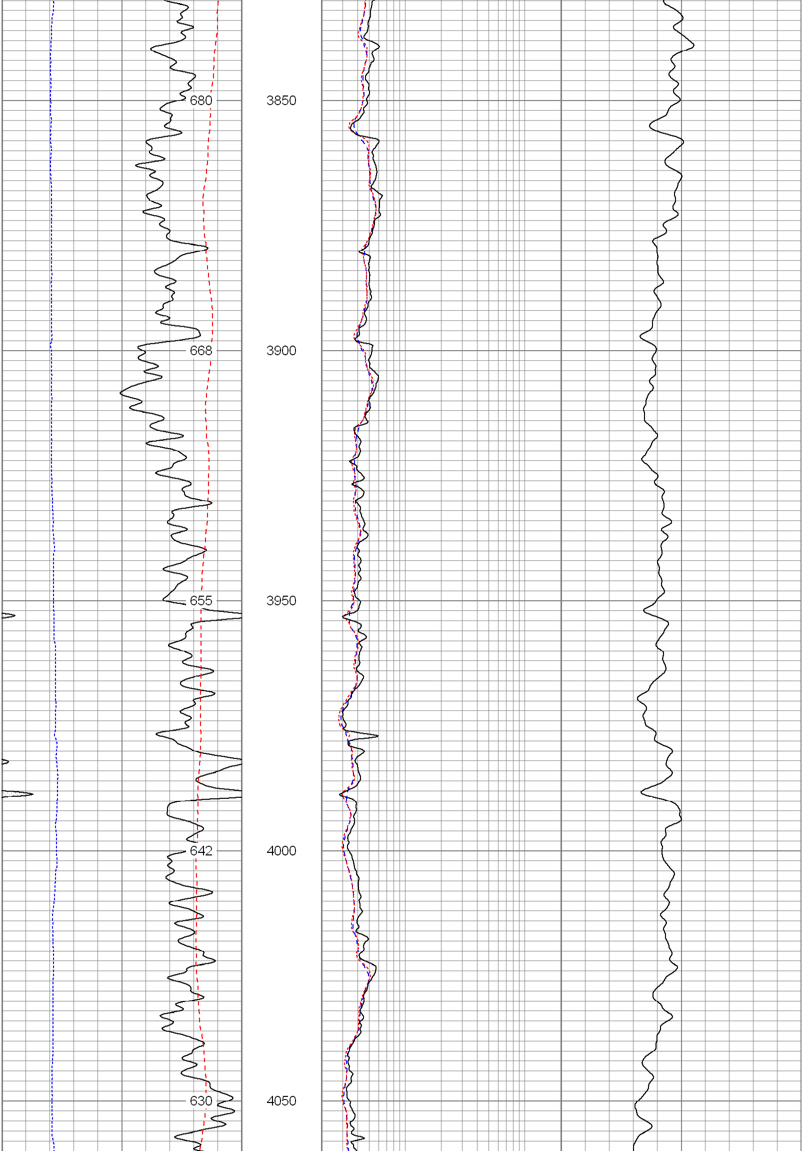
Annular volume calculated for 4.5" casing
Mid Continent Rig 1
Thank you for using Phoenix Surveys!!
API #: 05-123-30516

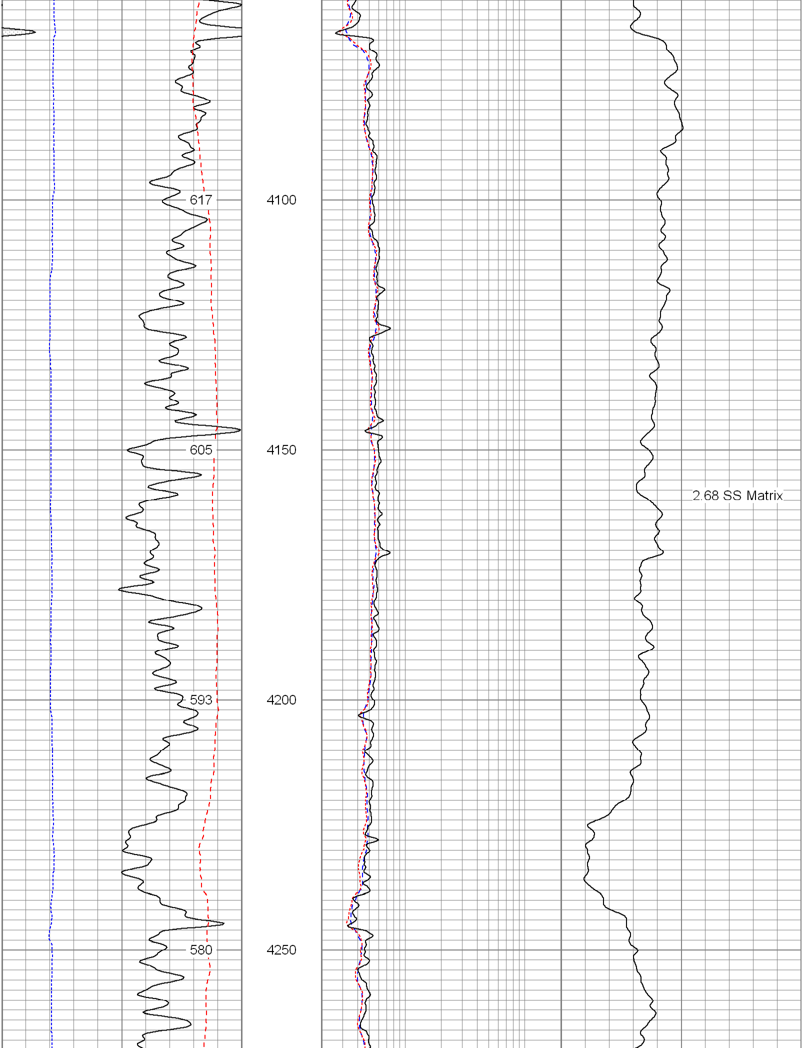
Database File:	10604.db
Dataset Pathname:	main
Presentation Format:	pdc1
Dataset Creation:	Wed May 12 06:52:16 2010
Charted by:	Depth in Feet scaled 1:240

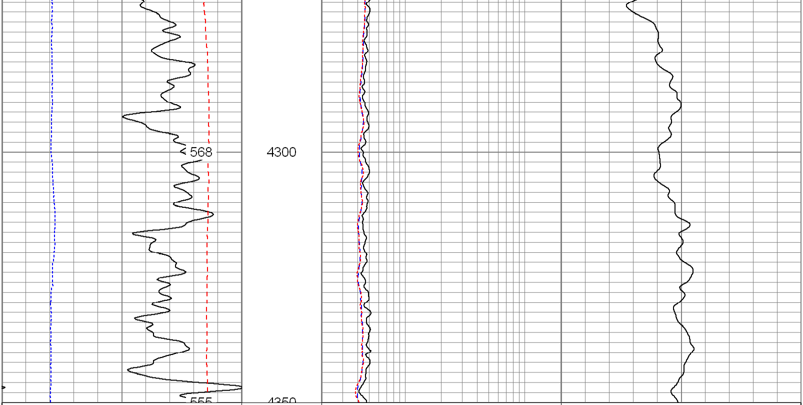












6 Density Caliper (in) 16	2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
30 Gamma Ray (GAPI) 130	2 Medium Resistivity (Ohm-m) 200	20 Neutron Porosity (pu) 0
50 SP (mV) 150	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)		

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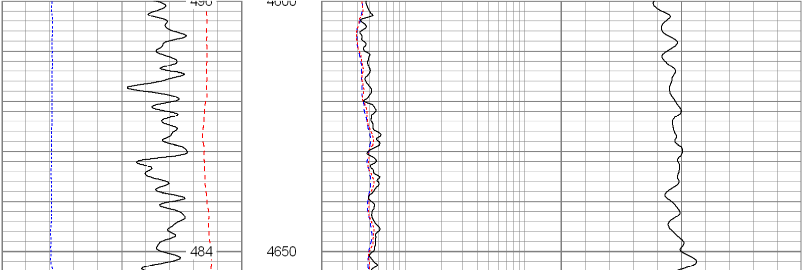

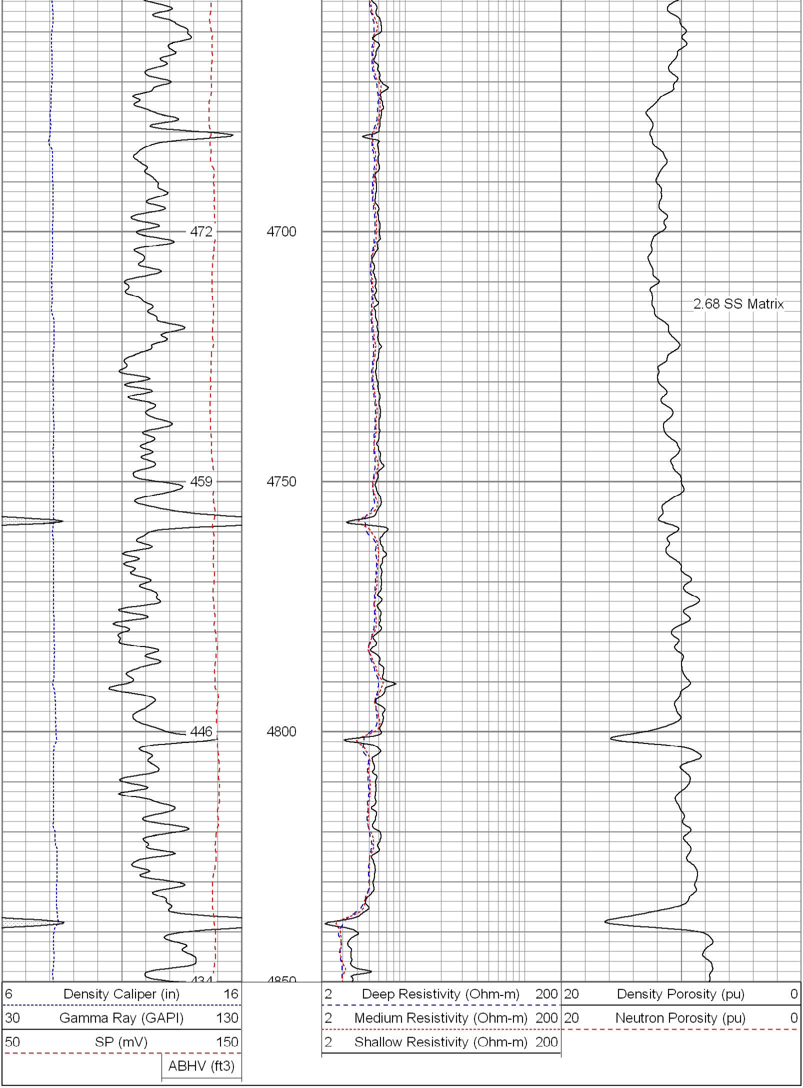

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0 SP (mV) 200

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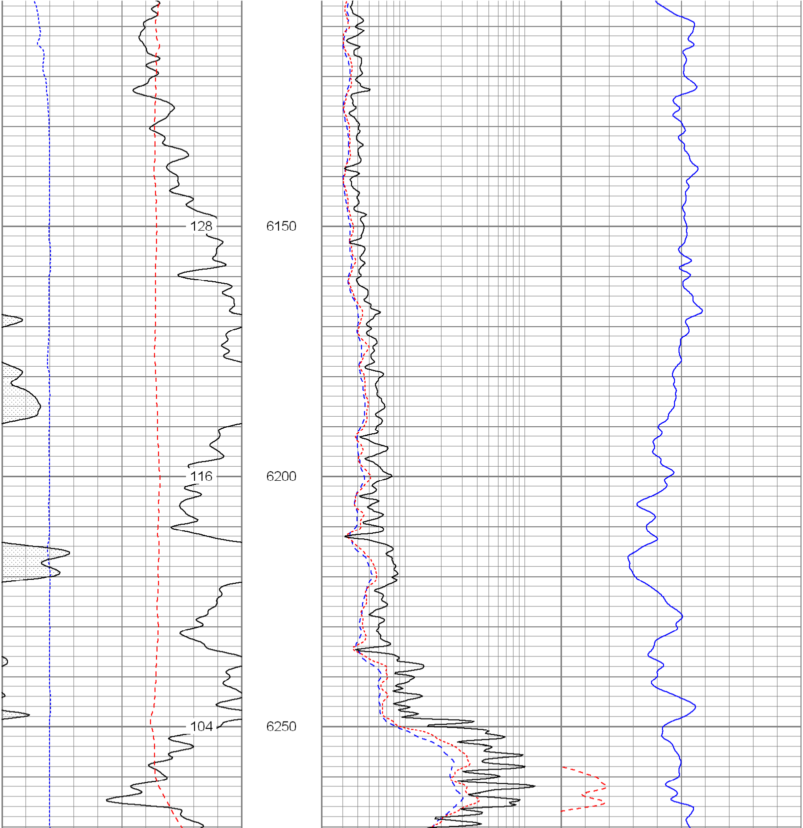
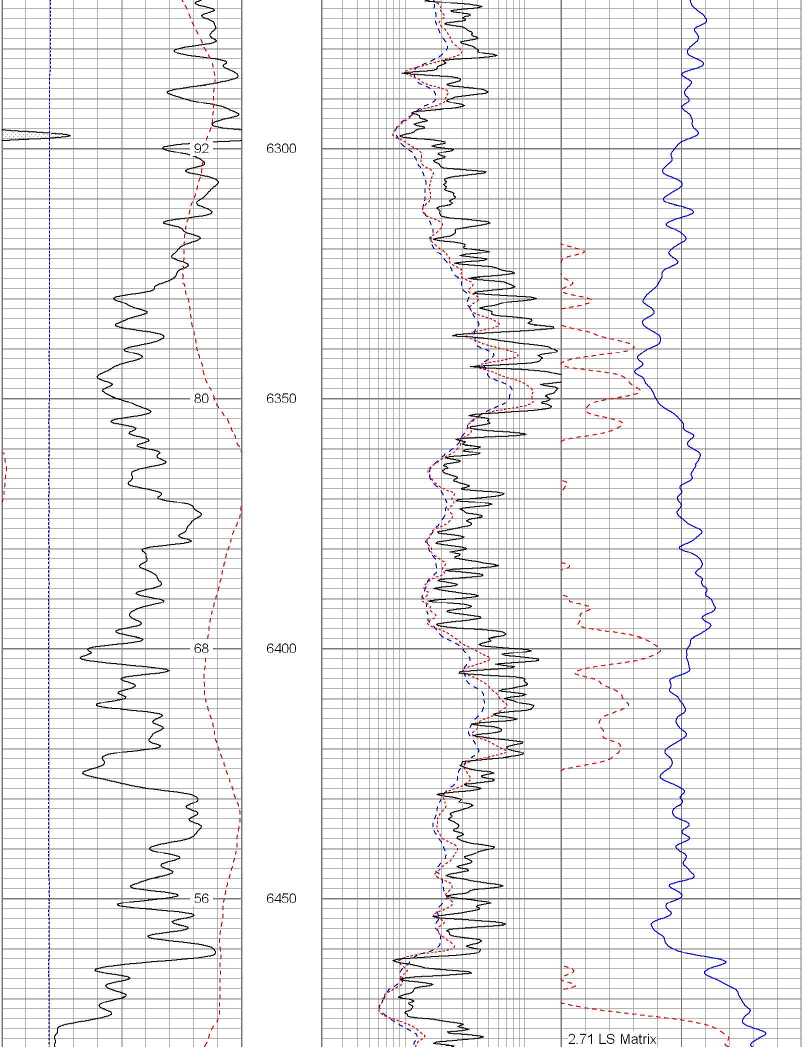
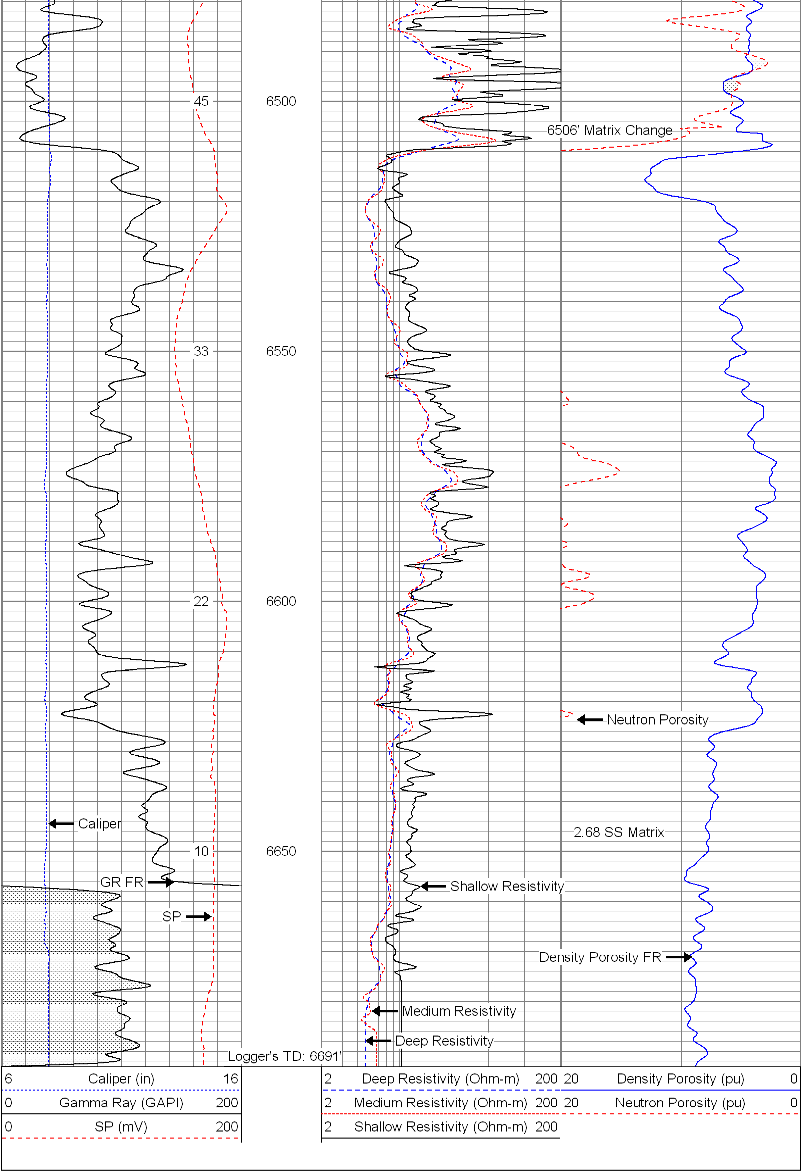
2 Medium Resistivity (Ohm-m) 200
2 Shallow Resistivity (Ohm-m) 200

20 Density Porosity (pu) 0
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