PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
DUAL INDUCTION

Company
Well
Field
County
State/Prv

Company	Bonanza Creek Operating Co. LLC
Well	Antelope 13-19
Field	Wattenberg
County	Weld
State/Province	Colorado

Location
1980' FSL & 660' FWL
NW SW
Sec - 19, Twp - 5N, Rge - 62W

Other Services
None

Permanent Datum	GL	Elevation	4604
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4614
D.F. 4613
G.L. 4604

Date	July 19, 2010		
Run Number	1		
Depth Driller	6702		
Depth Logger	6702		
Bottom Logged Interval	6702		
Top Log Interval	Casing		
Casing Driller	415		
Casing Logger	415		
Bit Size	7-7/8"		
Type Fluid in Hole	Polymer Gel		
Density / Viscosity	8.9 / 50		
pH / Fluid Loss	9.0 / 12.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.88 @ 75° F		
Rmf @ Meas. Temp	2.98 @ 75° F		
Rmc @ Meas. Temp	4.73 @ 75° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.10 @ 199° F		
Time Circulation Stopped	2315 7/18		
Time Logger on Bottom	0645		
Maximum Recorded Temperature	199° F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Randy Conley		
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

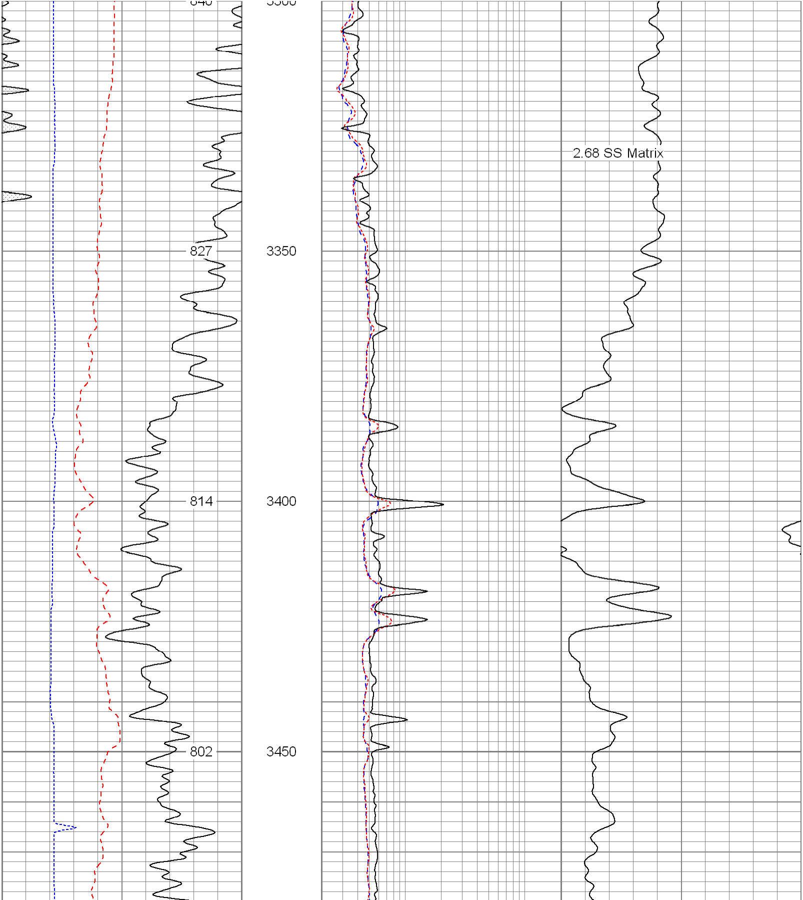
Annular volume calculated for 4.5" casing
Mid Continent Rig 1
Thank you for using Phoenix Surveys!!
API #: 05-123-30511-00

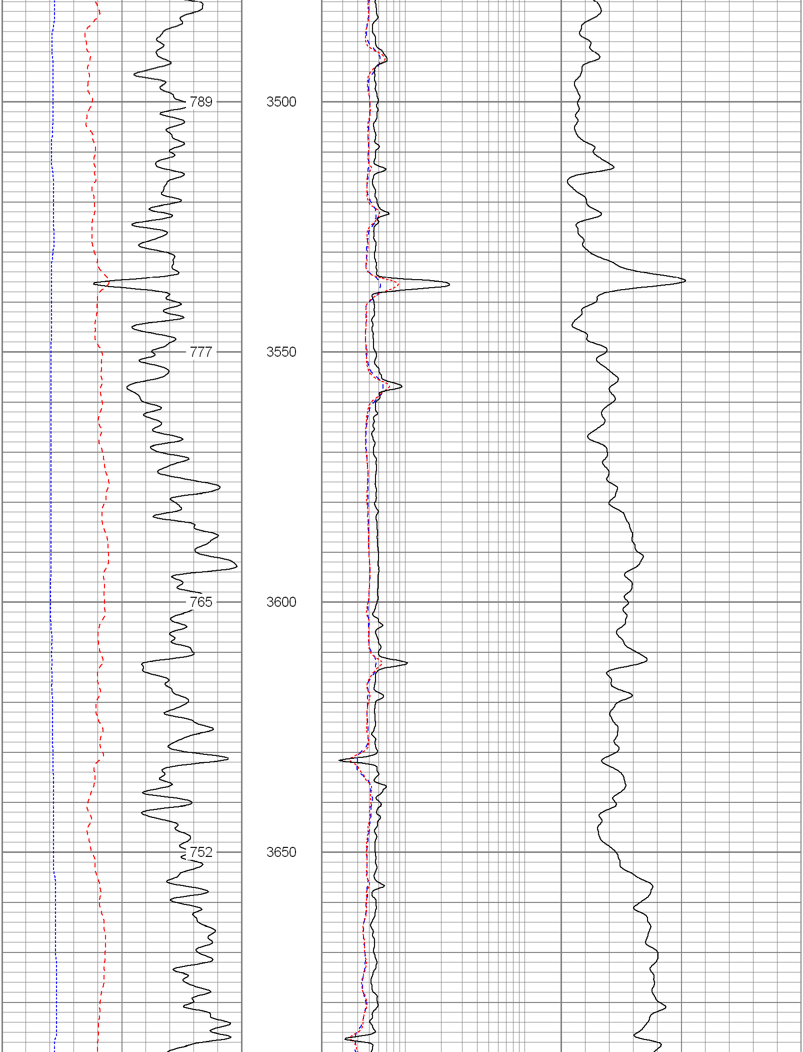
Database File: 10788.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Mon Jul 19 07:18:39 2010
Charted by: Depth in Feet scaled 1:240

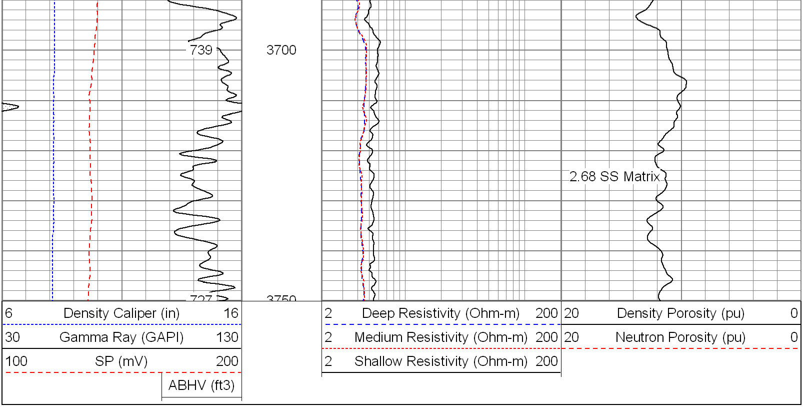
6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
100 SP (mV) 200
ABHV (ft3)

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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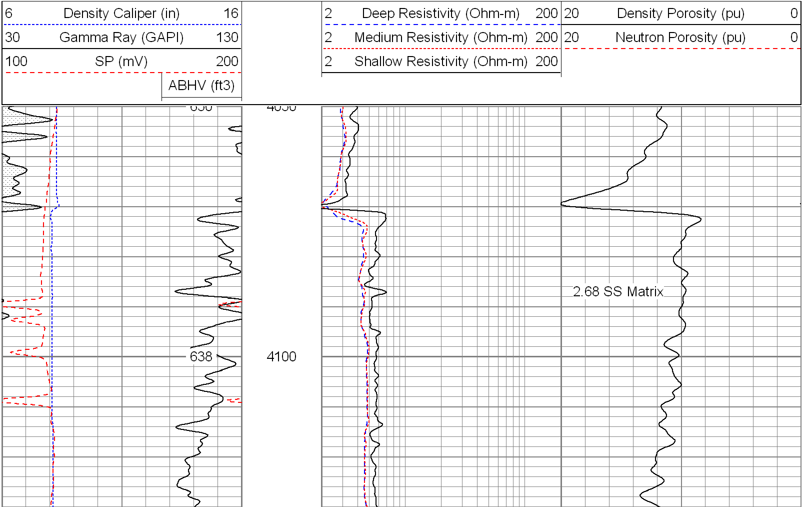

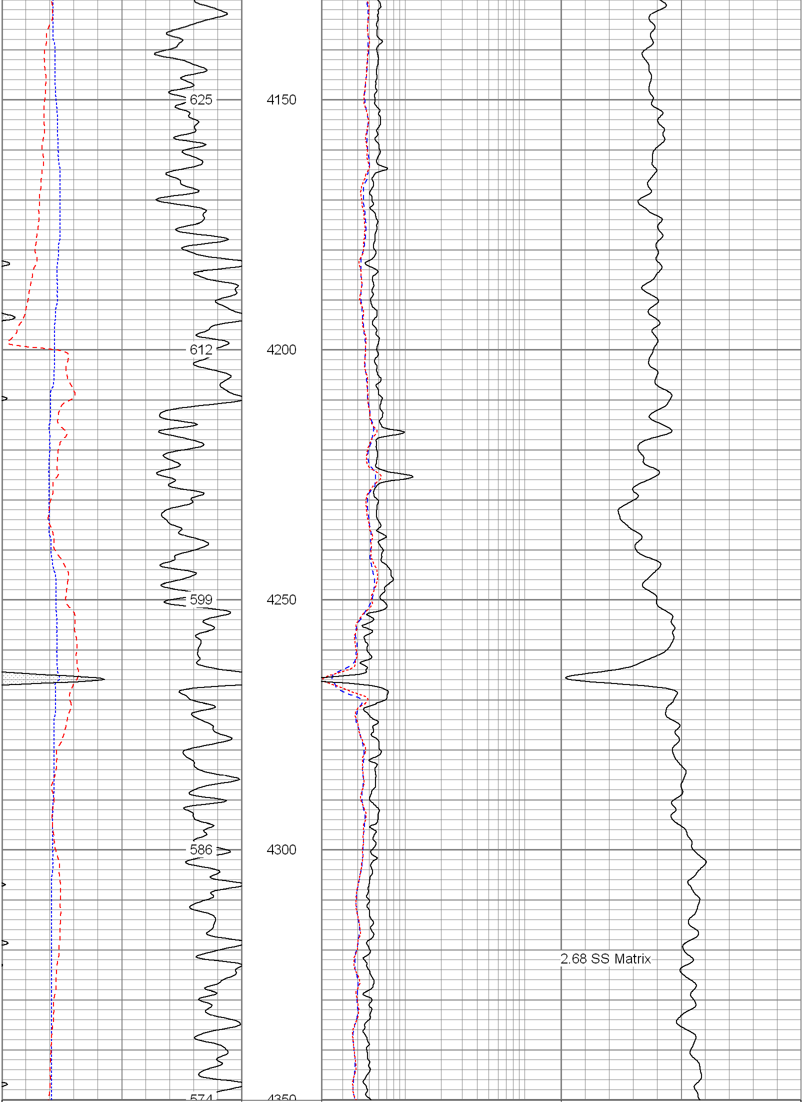

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	ABHV (ft3)	

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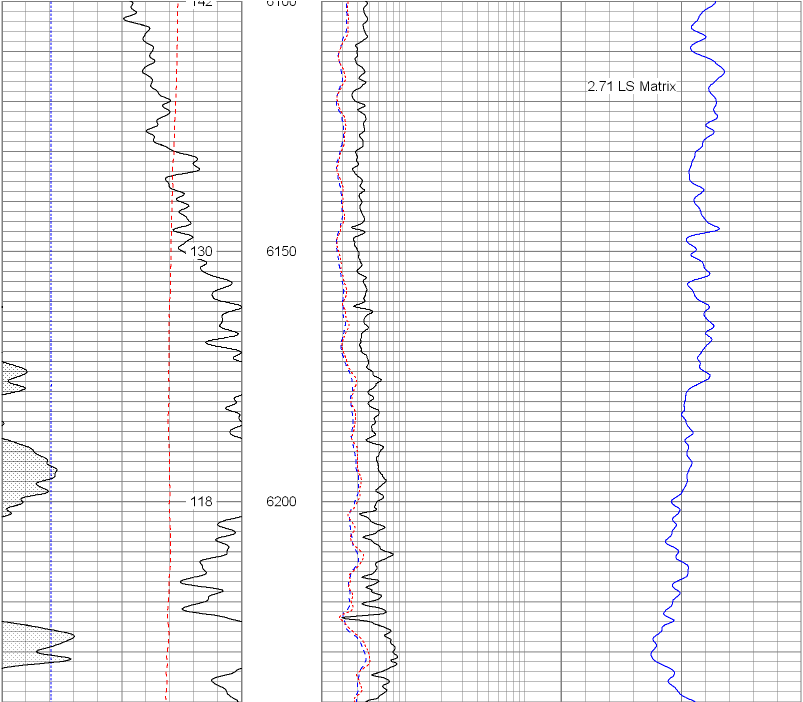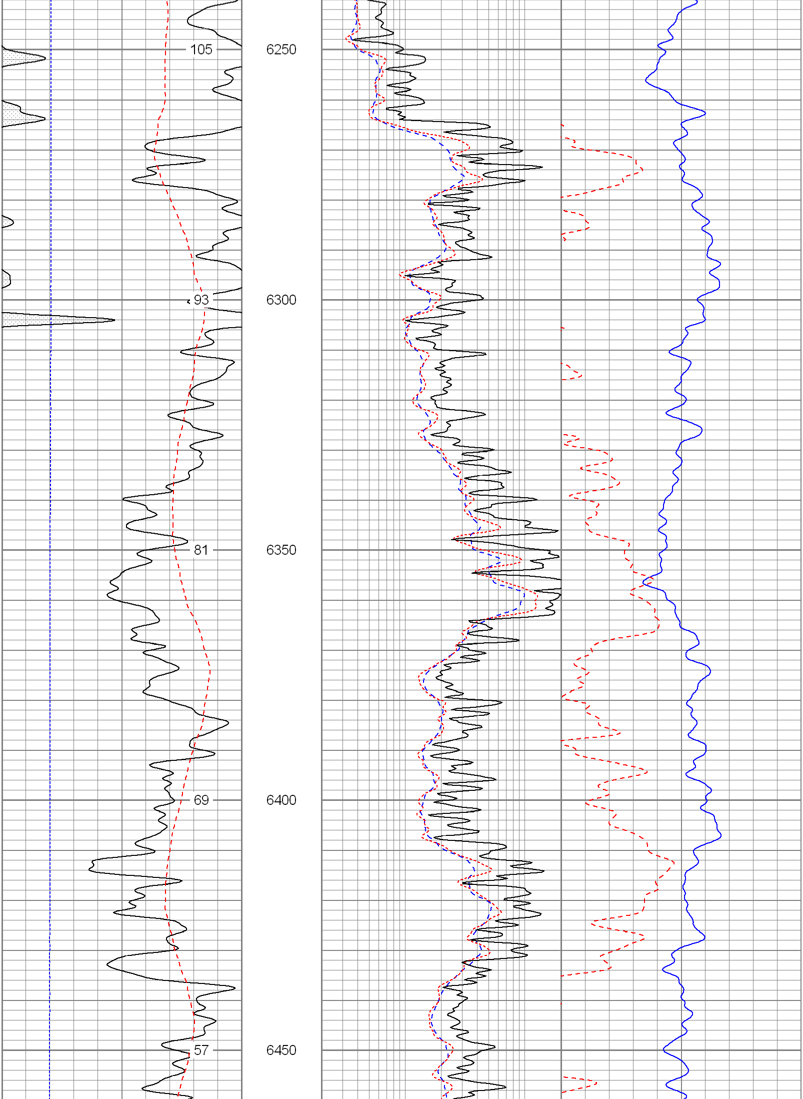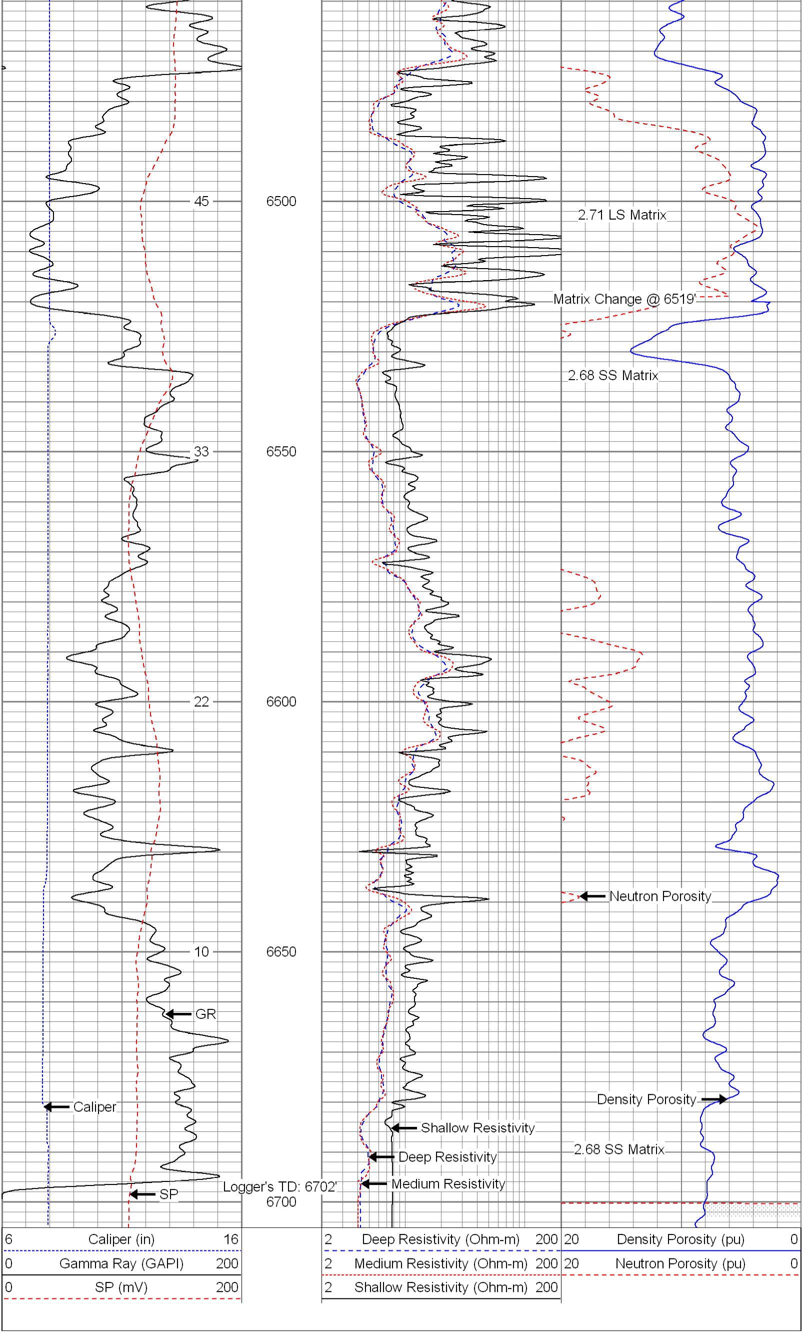20	Density Porosity (pu)	0
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