PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
GAMMA RAY

Company
Well
Field
County
State/Prv

Company Great Western Oil & Gas LLC
Well Binder 24-20
Field Wattenberg
County Weld **State/Province** Colorado

Location
SHL: 2464' FSL & 2262' FWL NESW
BHL: 753' FSL & 1897' FWL SE SW
Sec. 20, Twp. 4N, Rge. 67W

Other Services
High Res.
Induction

Elevation
K.B. 4923
D.F. 4922
G.L. 4909

Permanent Datum	GL	Elevation	4909
Log Measured From	KB		
Drilling Measured From	KB		

Date	February 5, 2012		
Run Number	1		
Depth Driller	7755		
Depth Logger	7752		
Bottom Logged Interval	7732		
Top Log Interval	Casing		
Casing Driller	521		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.1 / 42		
pH / Fluid Loss	7.0 / 12.8		
Source of Sample	Mudpit		
Rm @ Meas. Temp	3.40 @ 66 F		
Rmf @ Meas. Temp	2.50 @ 66 F		
Rmc @ Meas. Temp	4.00 @ 66 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.01 @ 211 F		
Time Circulation Stopped	1130		
Time Logger on Bottom	1900		
Maximum Recorded Temperature	211 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Randy Conley		
Witnessed By	Jay Pape		

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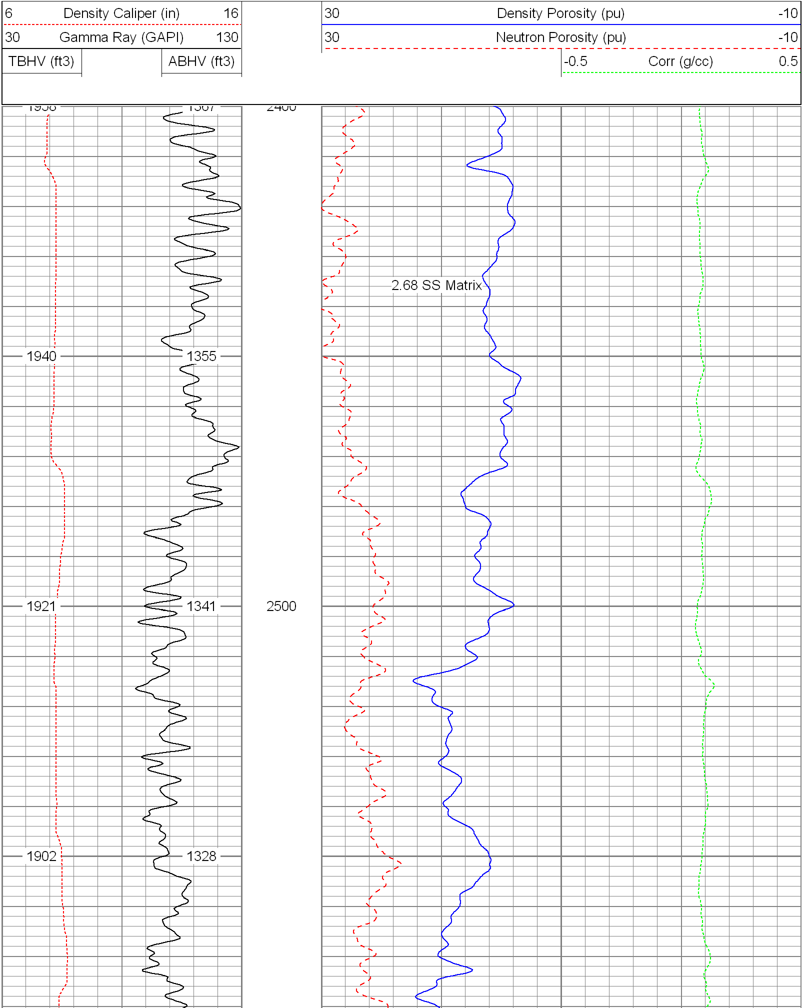
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

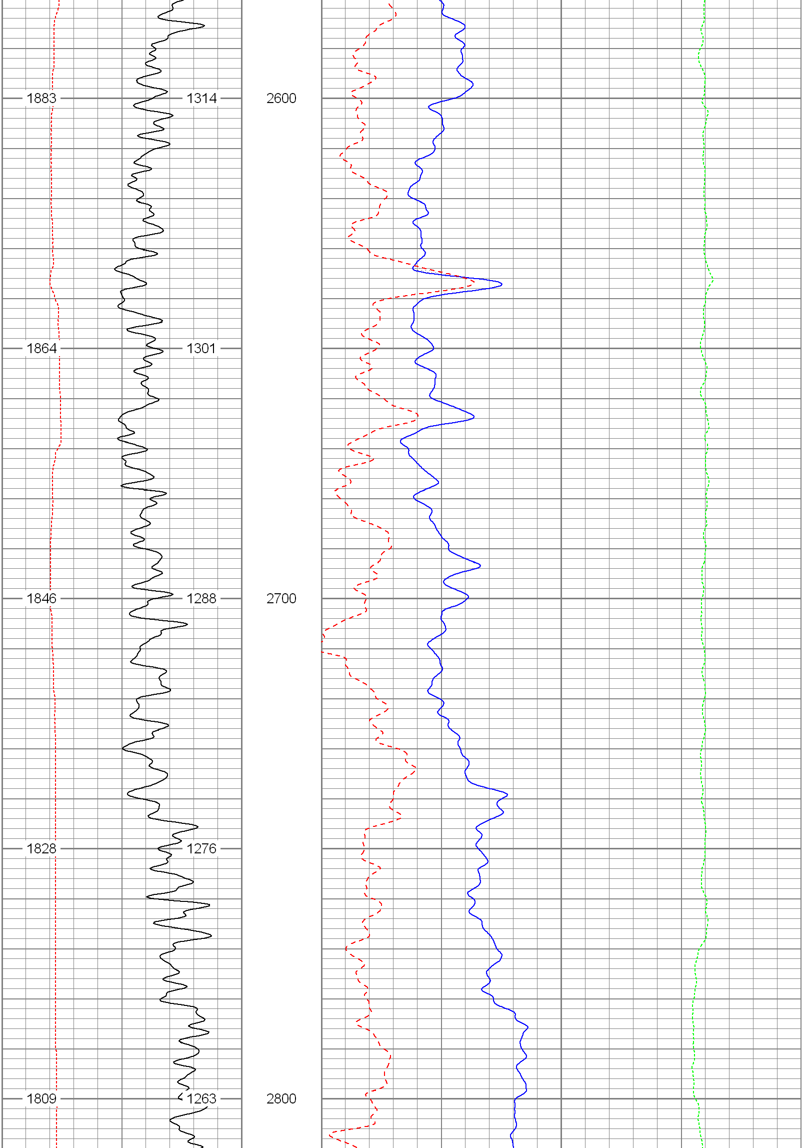
Comments

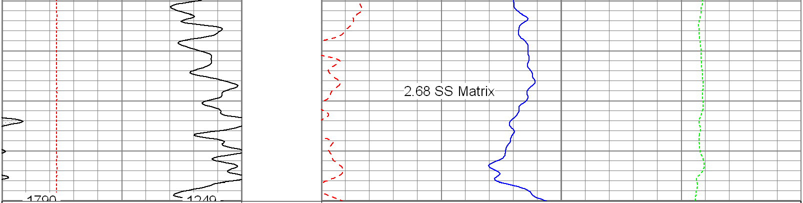
Annular volume calculated for 4-1/2" casing
Cade Drilling Rig 22
Thank you for using Phoenix Surveys!!
API #: 05-123-32772-00

No repeat due to hole conditions.

Database File: 12584.db
Dataset Pathname: final
Presentation Format: poro1
Dataset Creation: Sun Feb 05 19:17:41 2012
Charted by: Depth in Feet scaled 1:240







6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
TBHV (ft3)
ABHV (ft3)

30 Density Porosity (pu) -10
30 Neutron Porosity (pu) -10
-0.5 Corr (g/cc) 0.5

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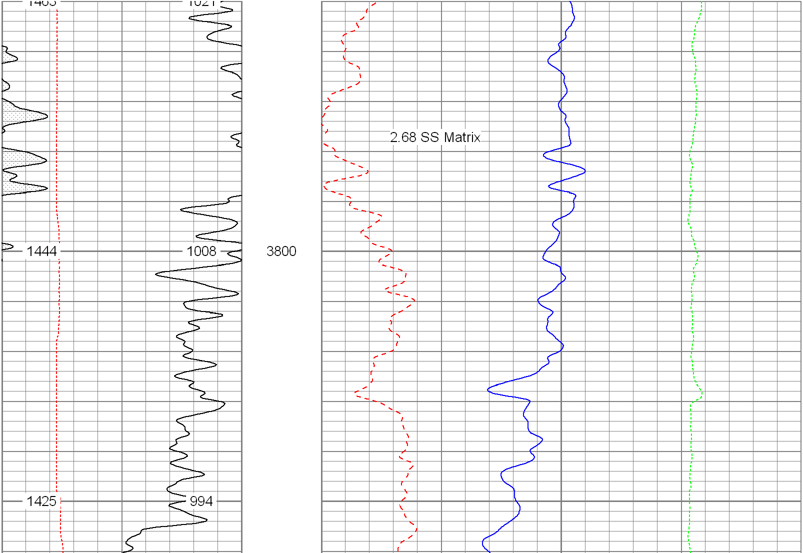

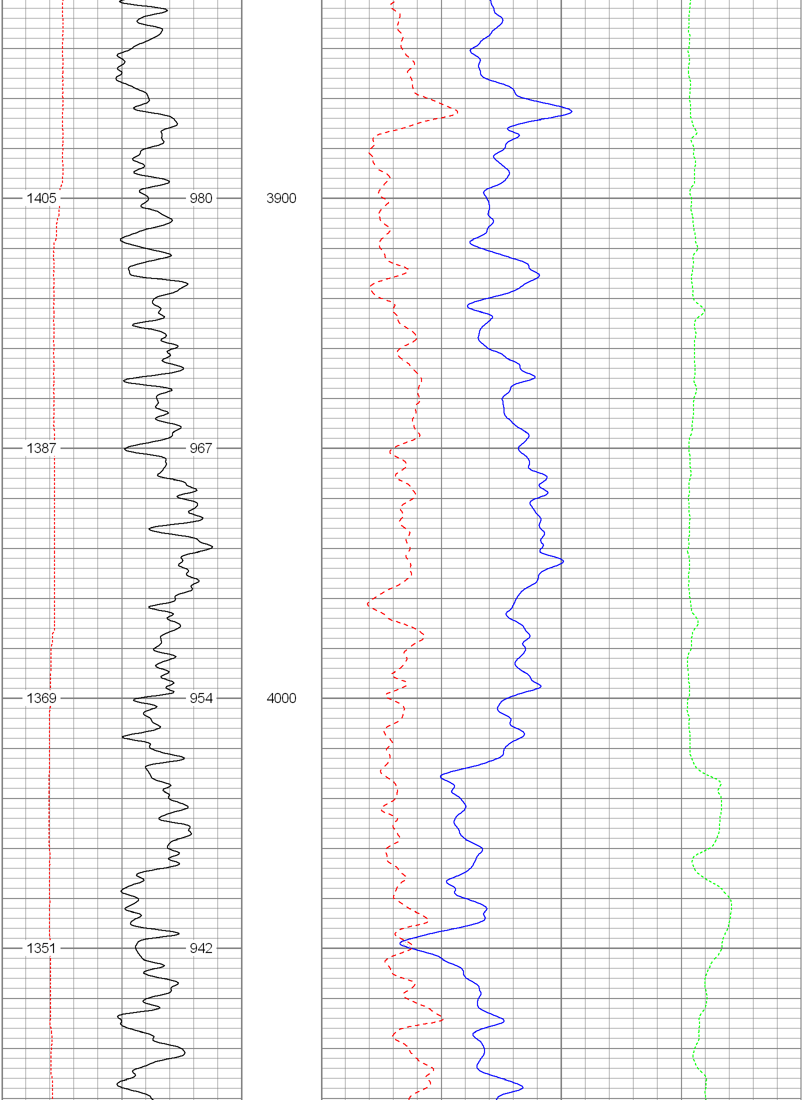

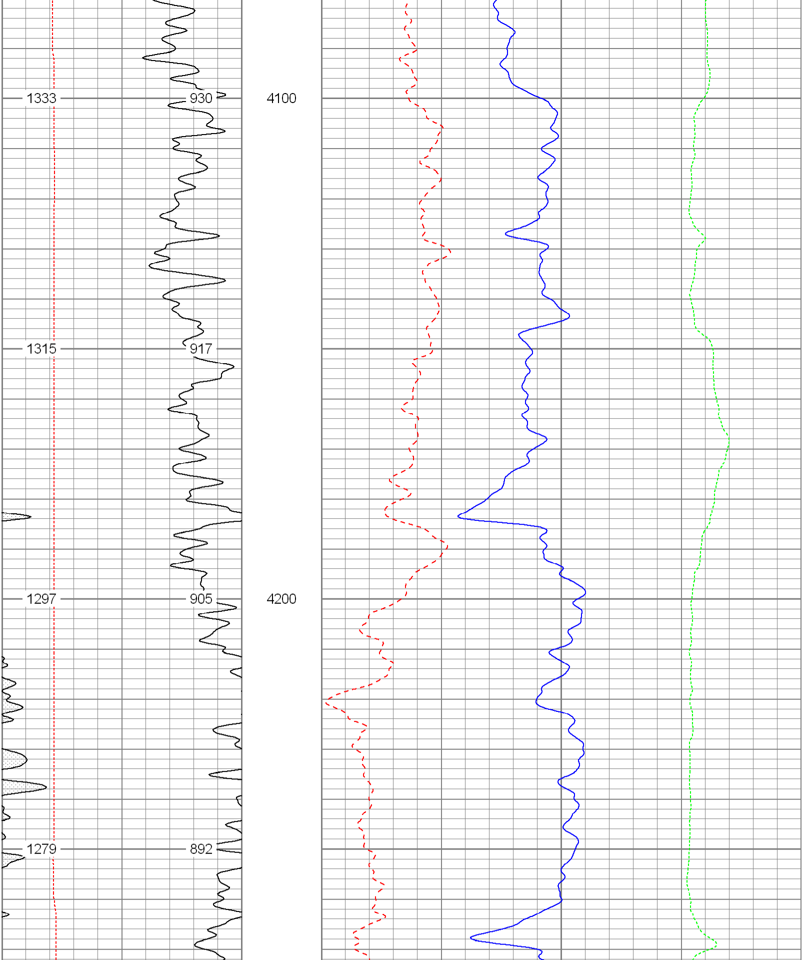

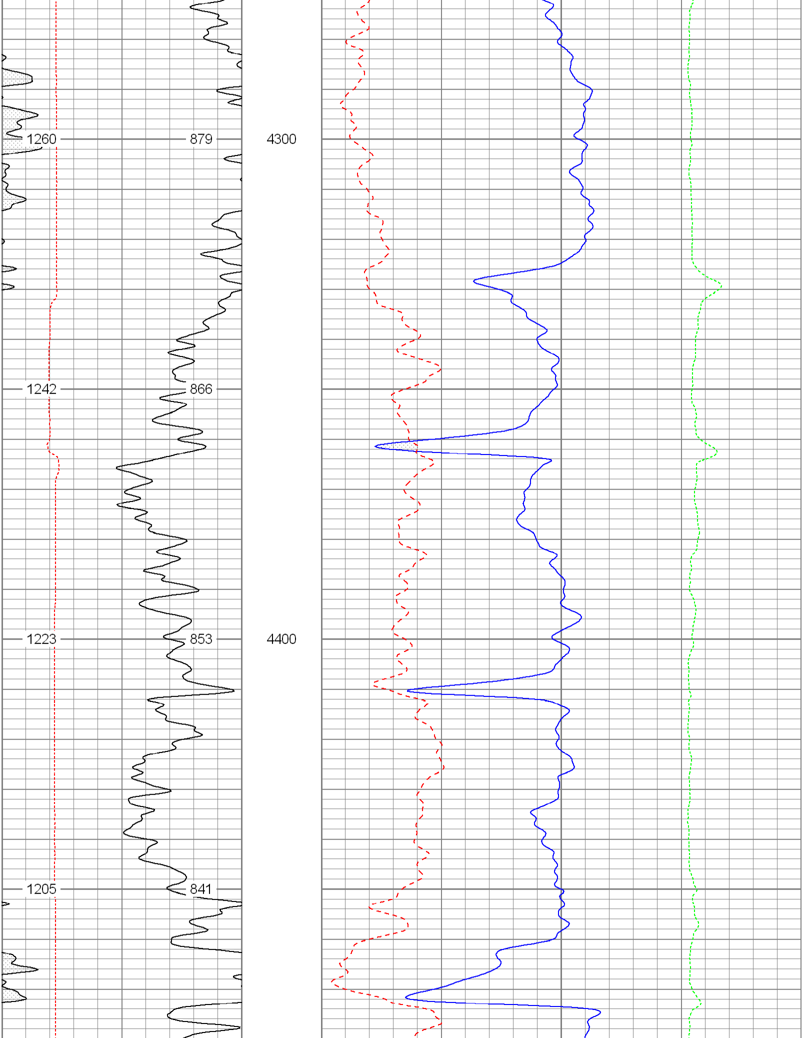

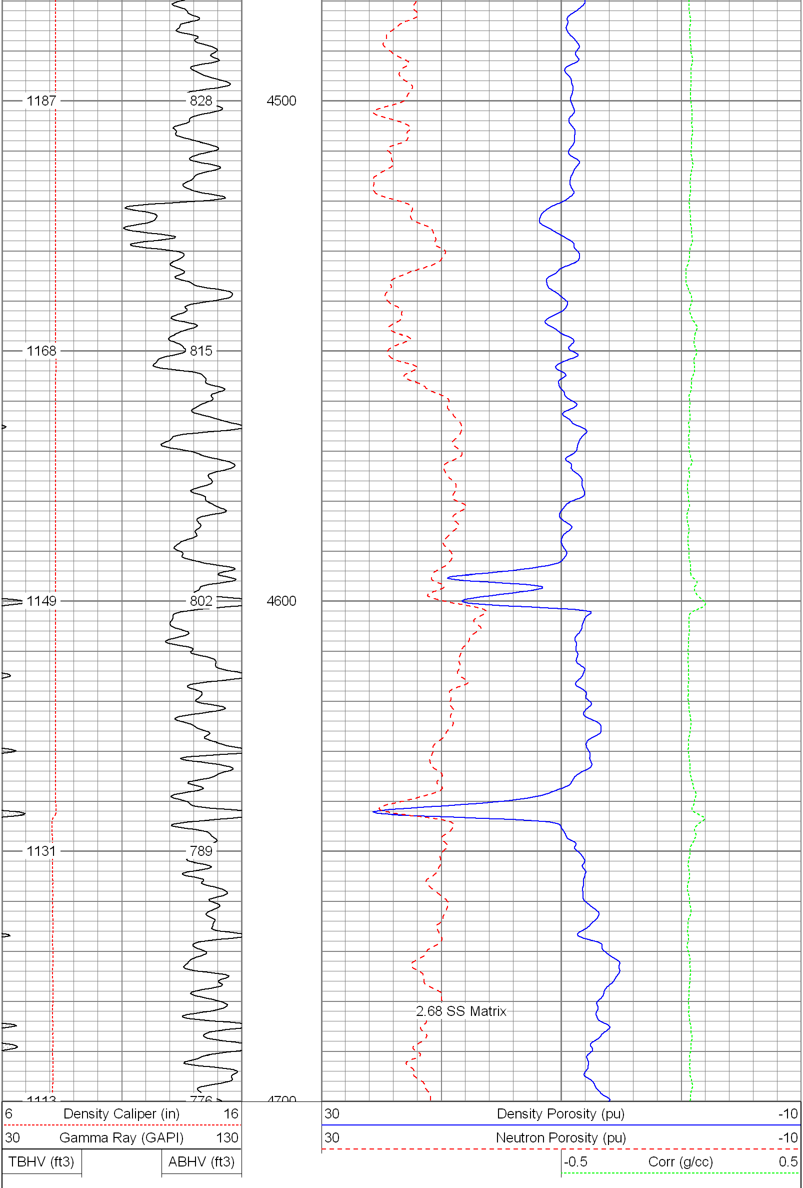

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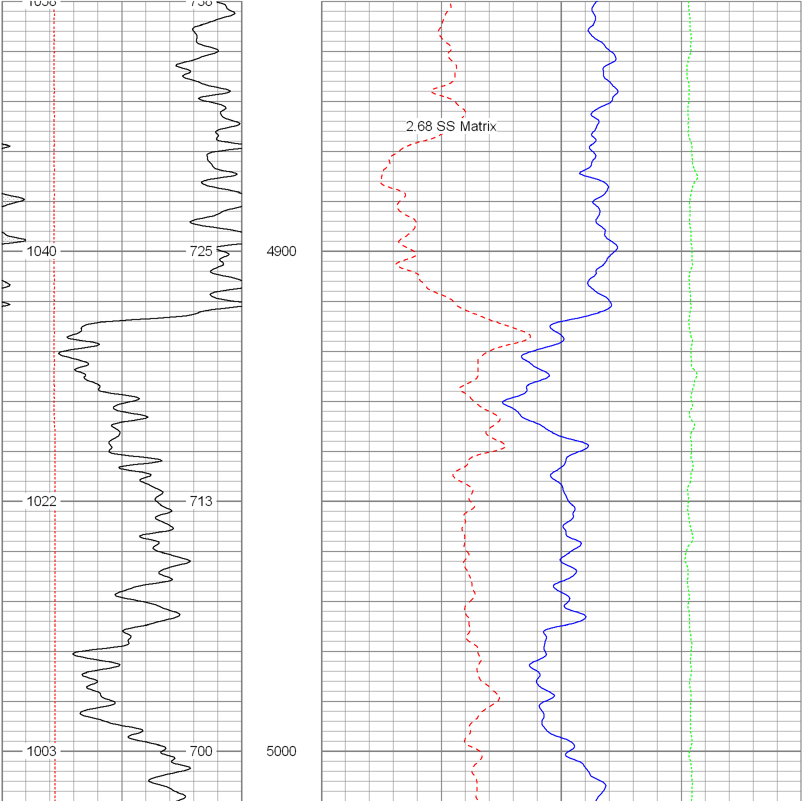
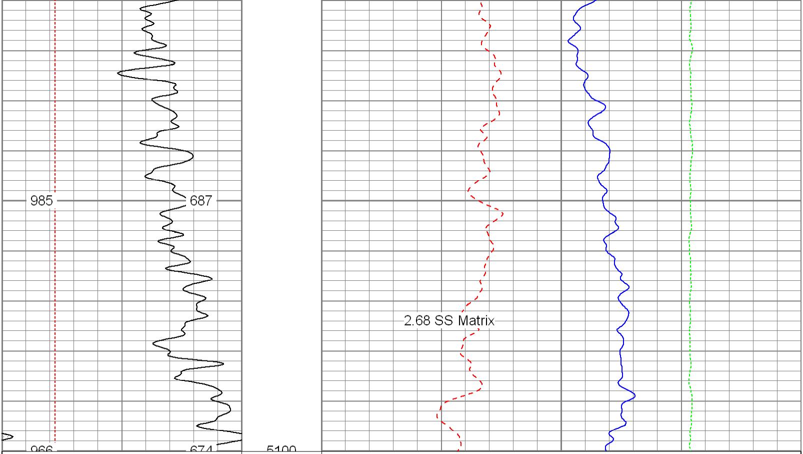
TBHV (ft3)		ABHV (ft3)	-0.5	Corr (g/cc)	0.5





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30 Gamma Ray (GAPI) 130

TBHV (ft3)

ABHV (ft3)

30 Density Porosity (pu) -10

30 Neutron Porosity (pu) -10

-0.5 Corr (g/cc) 0.5

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Presentation Format:	poro
Dataset Creation:	Sun Feb 05 19:17:41 2012
Charted by:	Depth in Feet scaled 1:240

6 Caliper (in) 16

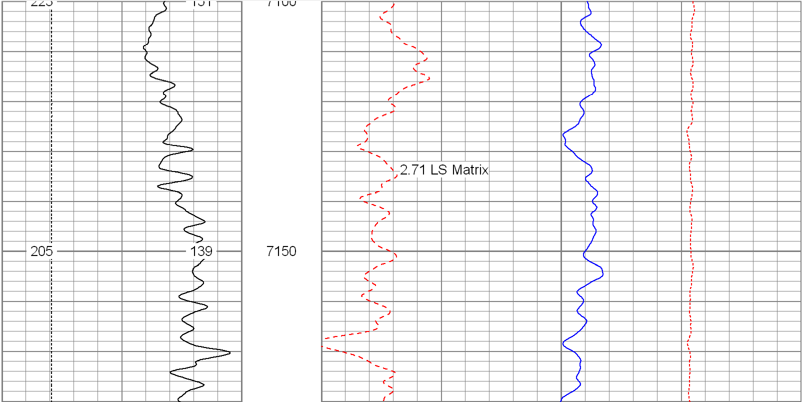
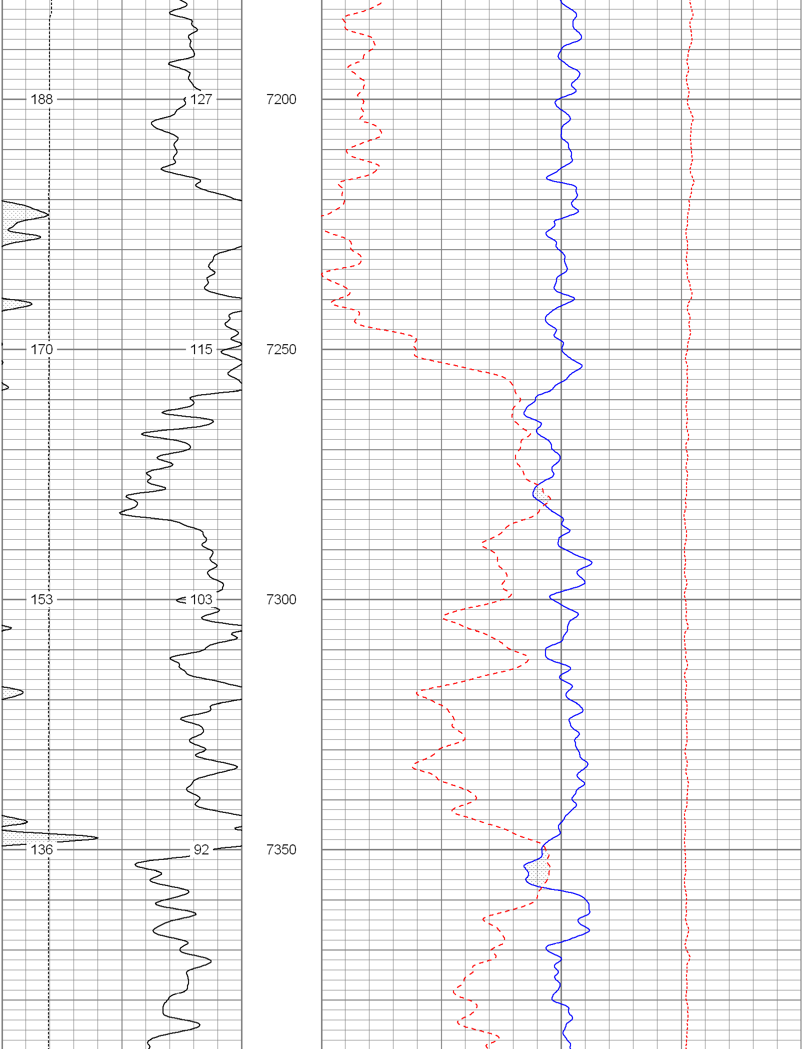
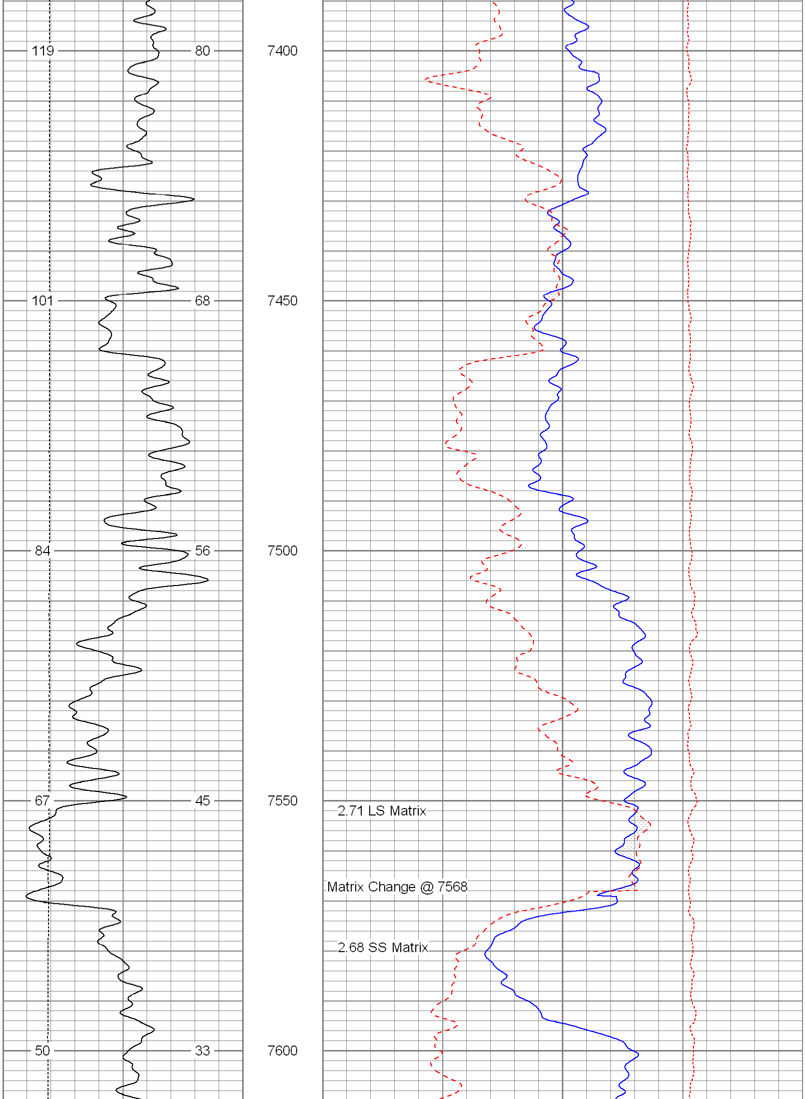
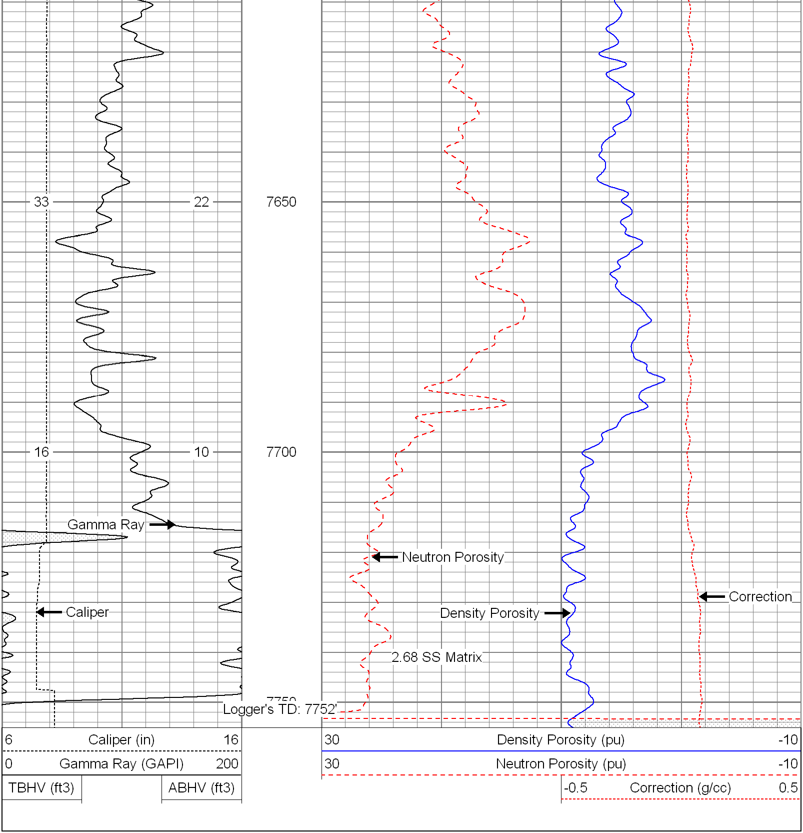
0 Gamma Ray (GAPI) 200

TBHV (ft3)

ABHV (ft3)

30 Density Porosity (pu) -10

30 Neutron Porosity (pu) -10

-0.5 Correction (g/cc) 0.5