PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
GAMMA RAY

Company
Well
Field
County
State/Prv

Company	Great Western Oil & Gas LLC
Well	Binder 4-6-20
Field	Wattenberg
County	Weld
State/Province	Colorado
Location	SHL: 2464' FSL & 2277' FWL NESW BHL: 1333' FSL & 2454' FWL NESW Sec 20, Twp - 4N, Rge - 67W

Other Services
Hi. Res.
Induction

Permanent Datum	GL	Elevation 4908
Log Measured From	KB	
Drilling Measured From	KB	

Elevation
K.B. 4922
D.F. 4921
G.L. 4908

Date	February 10, 2012		
Run Number	1		
Depth Driller	7594		
Depth Logger	7583		
Bottom Logged Interval	7563		
Top Log Interval	2340		
Casing Driller	521		
Casing Logger	Not Logged		
Bit Size	7+7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.6 / 55		
pH / Fluid Loss	7.5 / 10		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.35 @ 65 F		
Rmf @ Meas. Temp	2.68 @ 65 F		
Rmc @ Meas. Temp	4.02 @ 65 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.06 @ 207 F		
Time Circulation Stopped	2000 2/9		
Time Logger on Bottom	0630		
Maximum Recorded Temperature	207 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Jay Pape		

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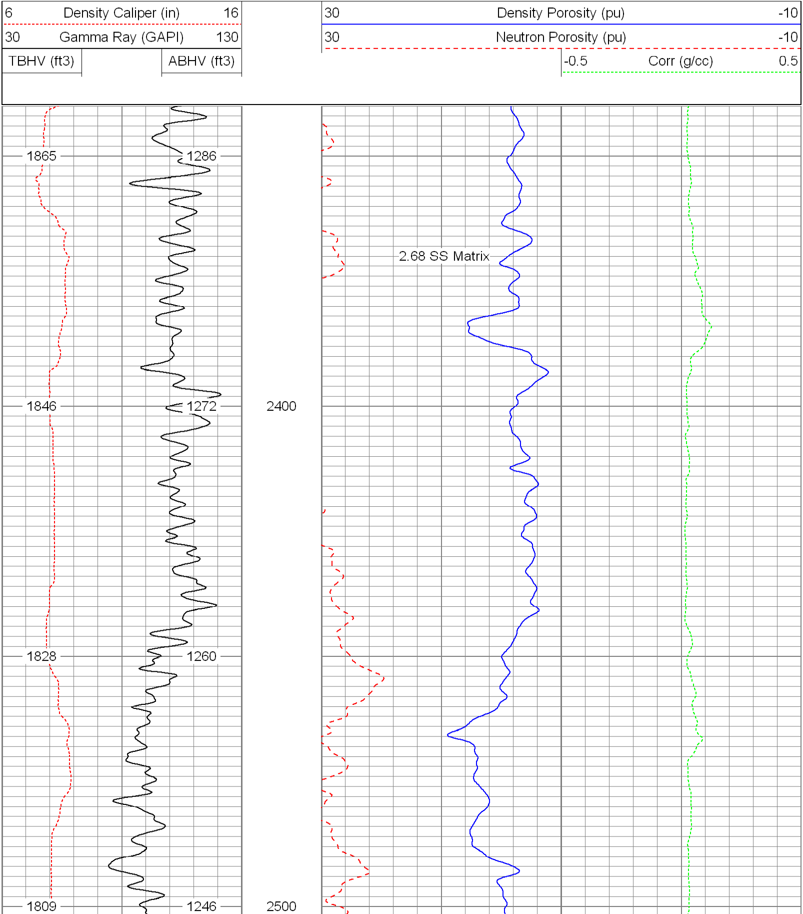
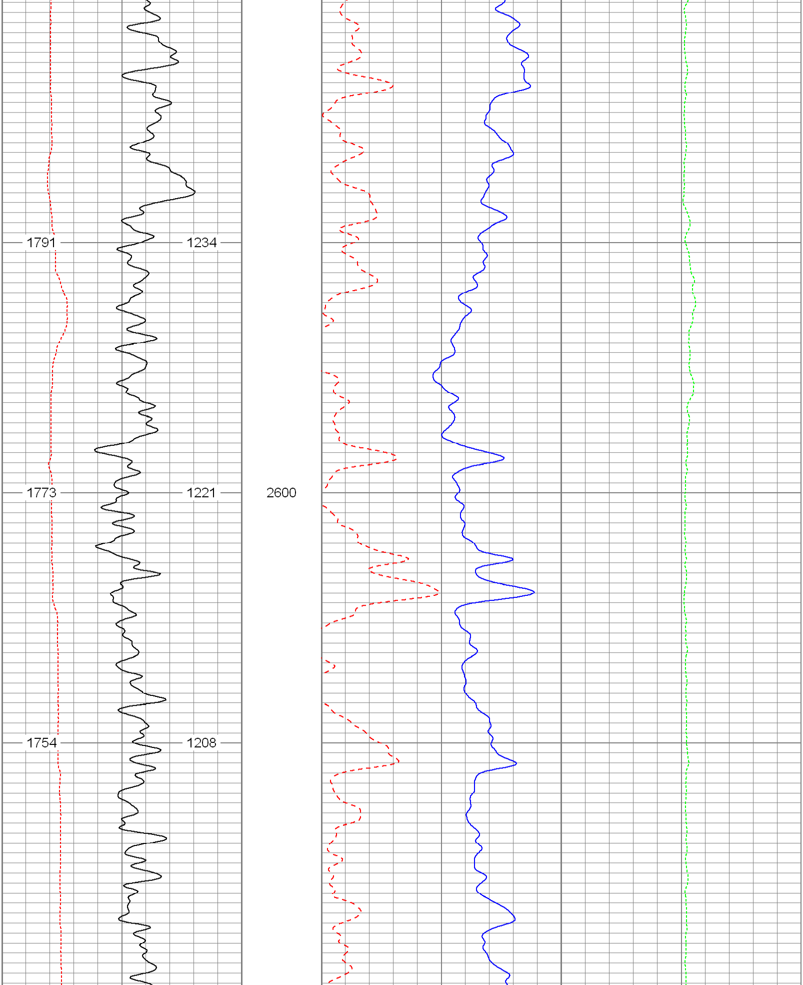
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

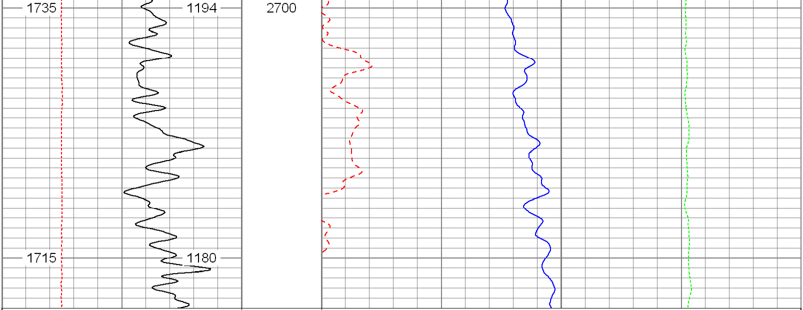
Comments

Annular volume calculated for 4.5" casing
Cade Drilling Rig 22
Thank you for using Phoenix Surveys.
API #: 05-123-32969-00
No Repeat Due to Hole Conditions

Database File: 12607.db
Dataset Pathname: final
Presentation Format: poro1
Dataset Creation: Fri Feb 10 06:48:39 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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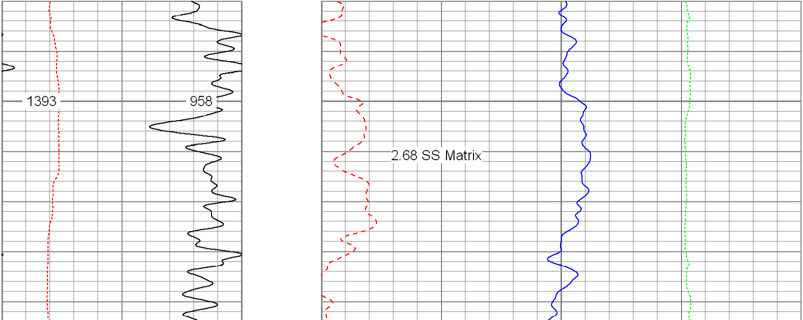

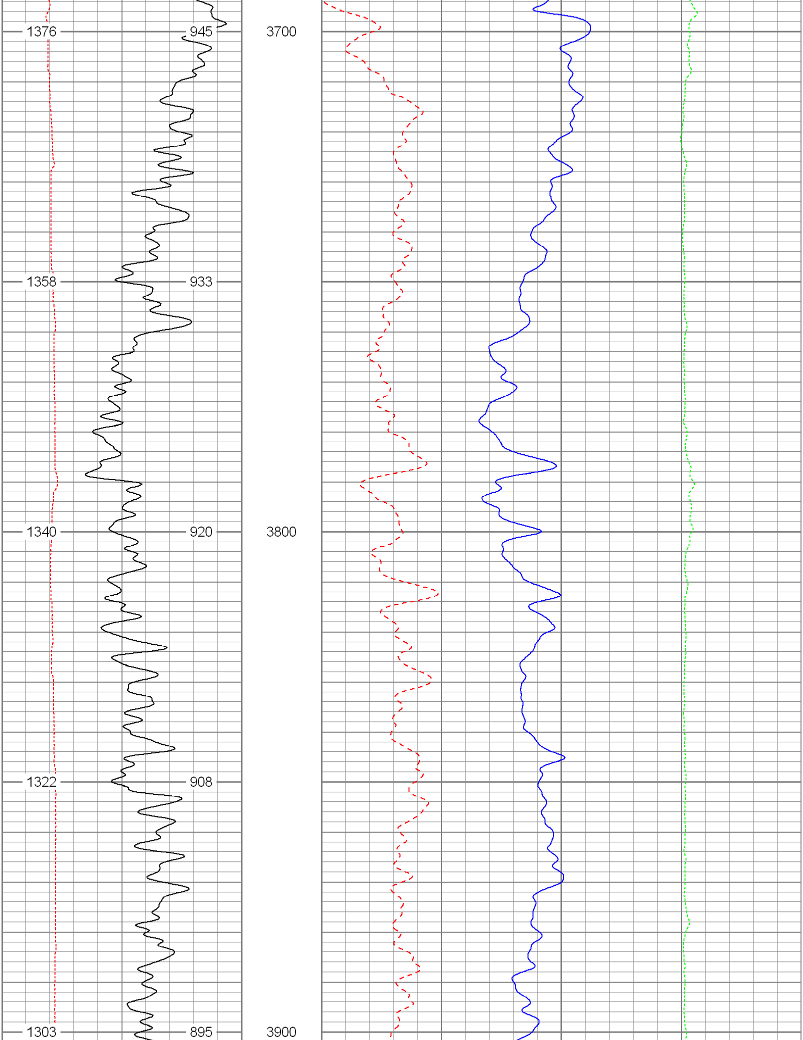

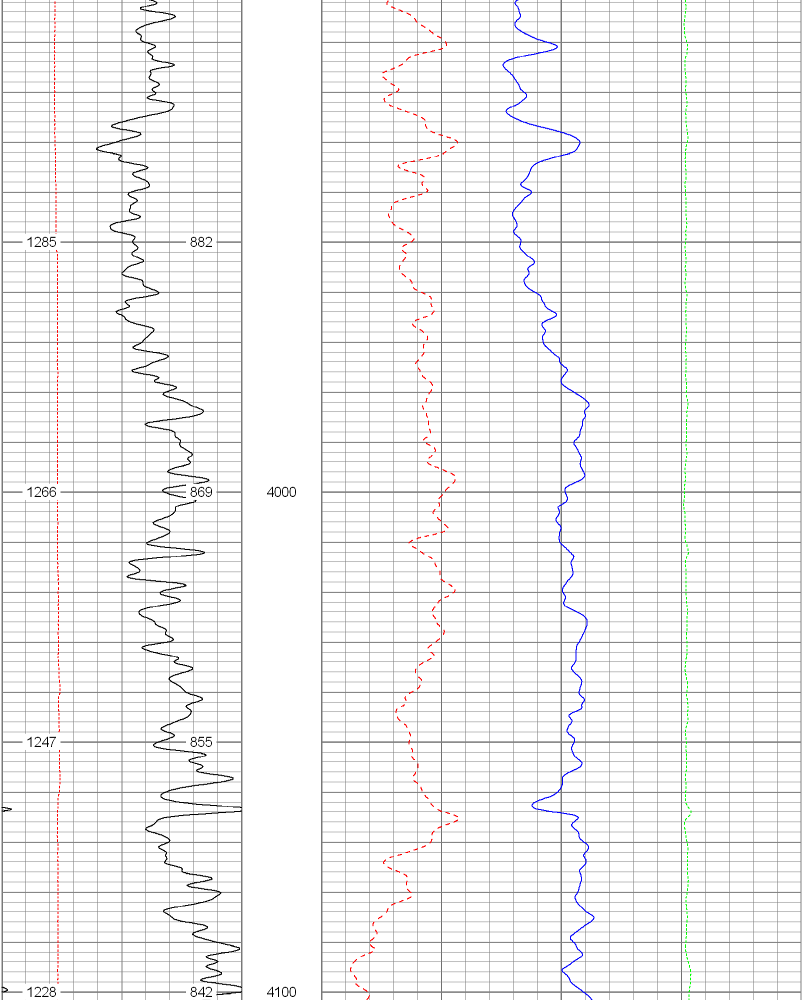

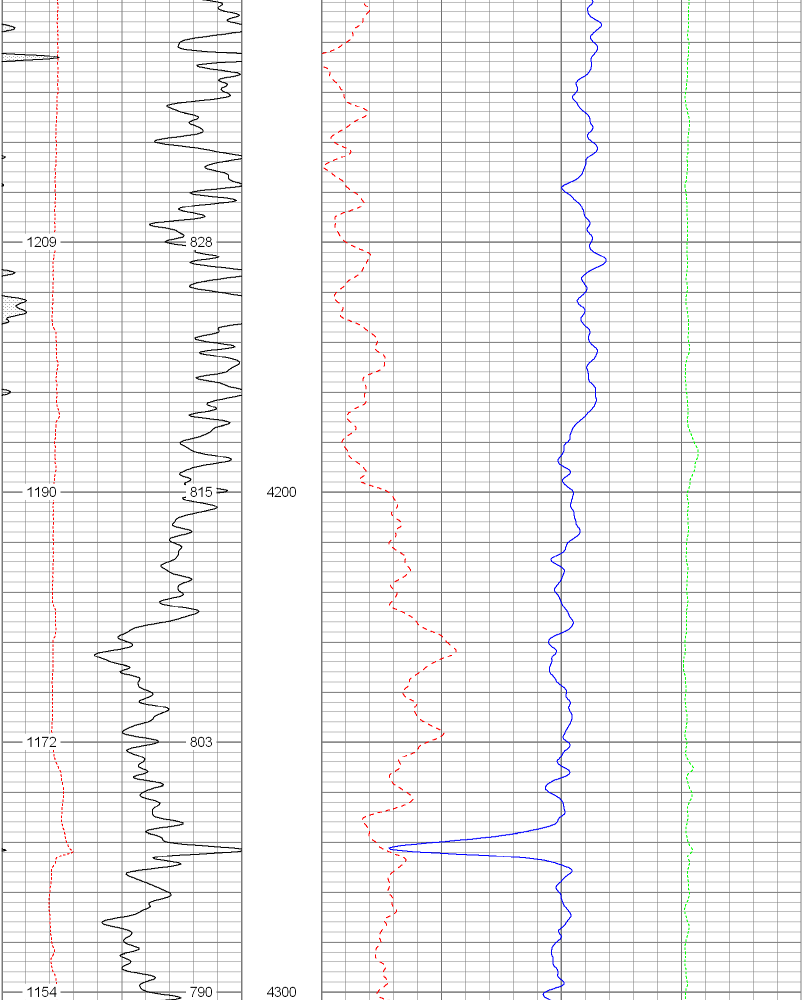

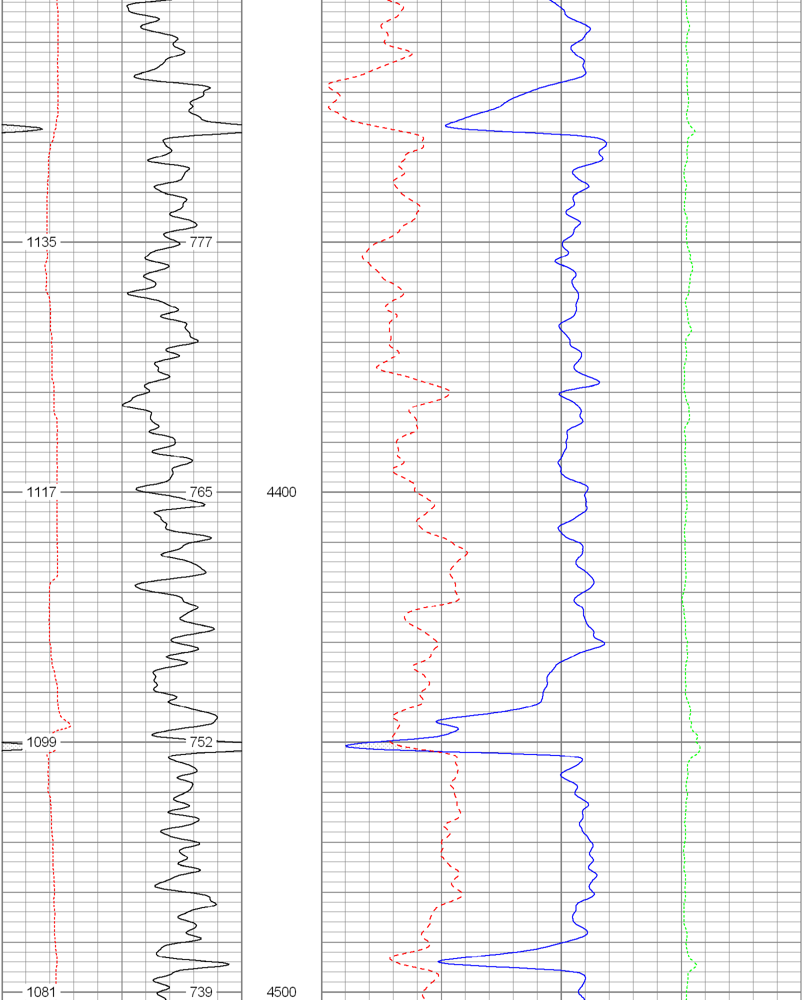

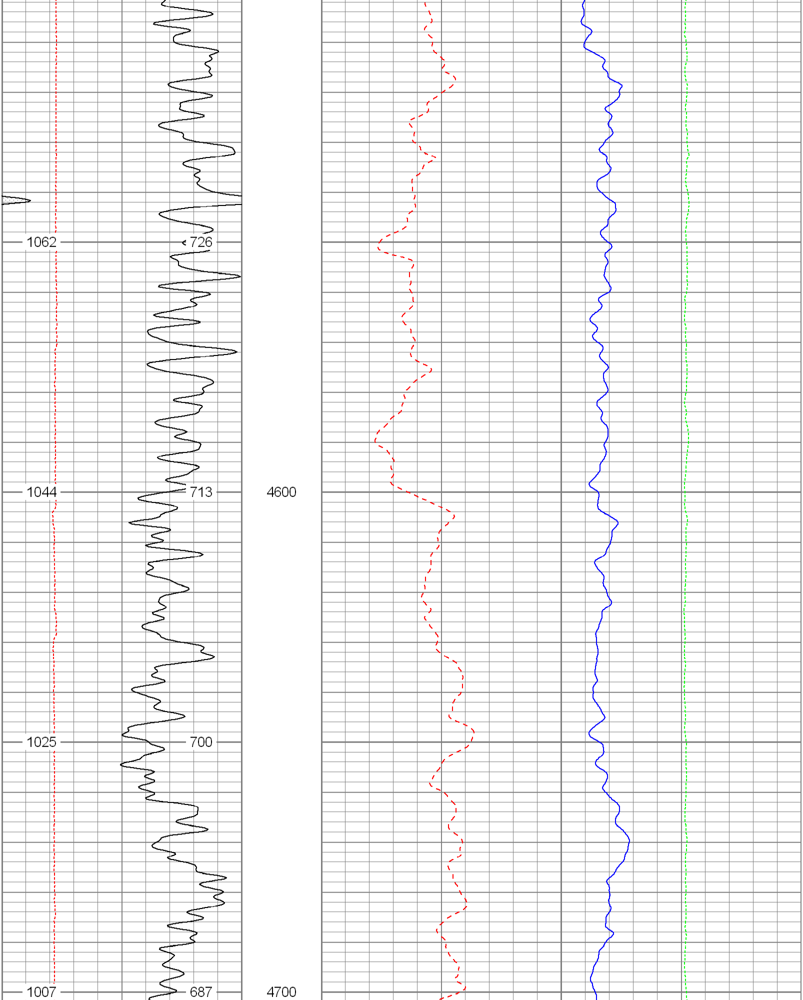

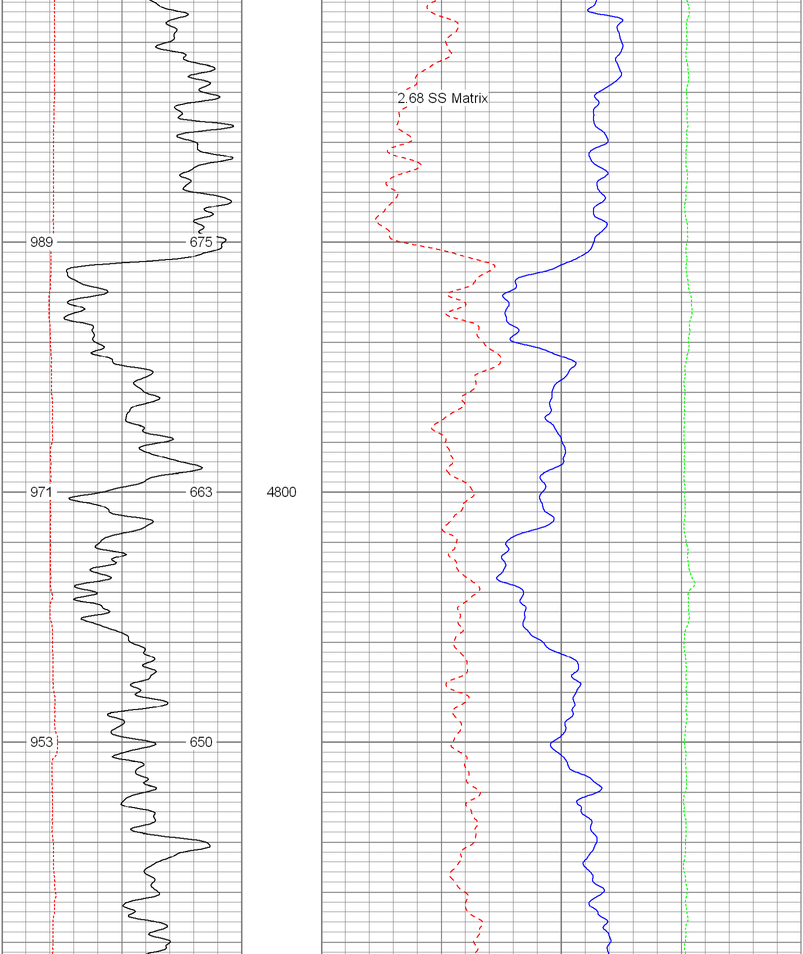

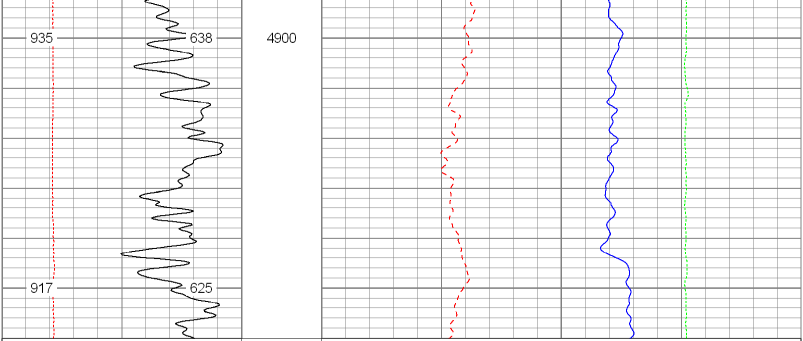

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Presentation Format:	poro
Dataset Creation:	Fri Feb 10 06:48:39 2012
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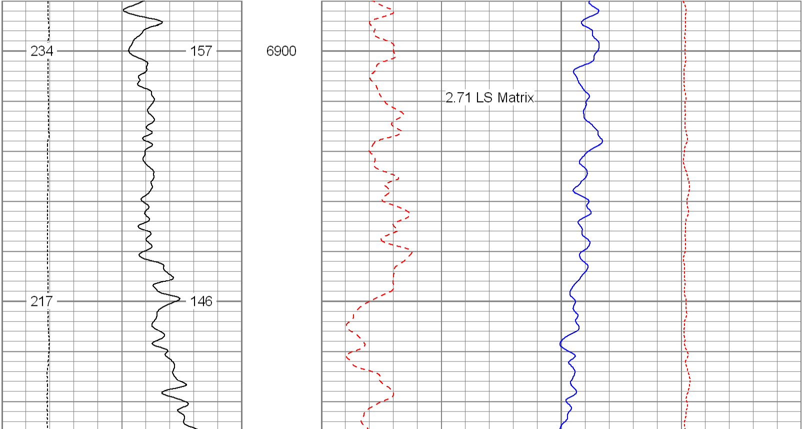
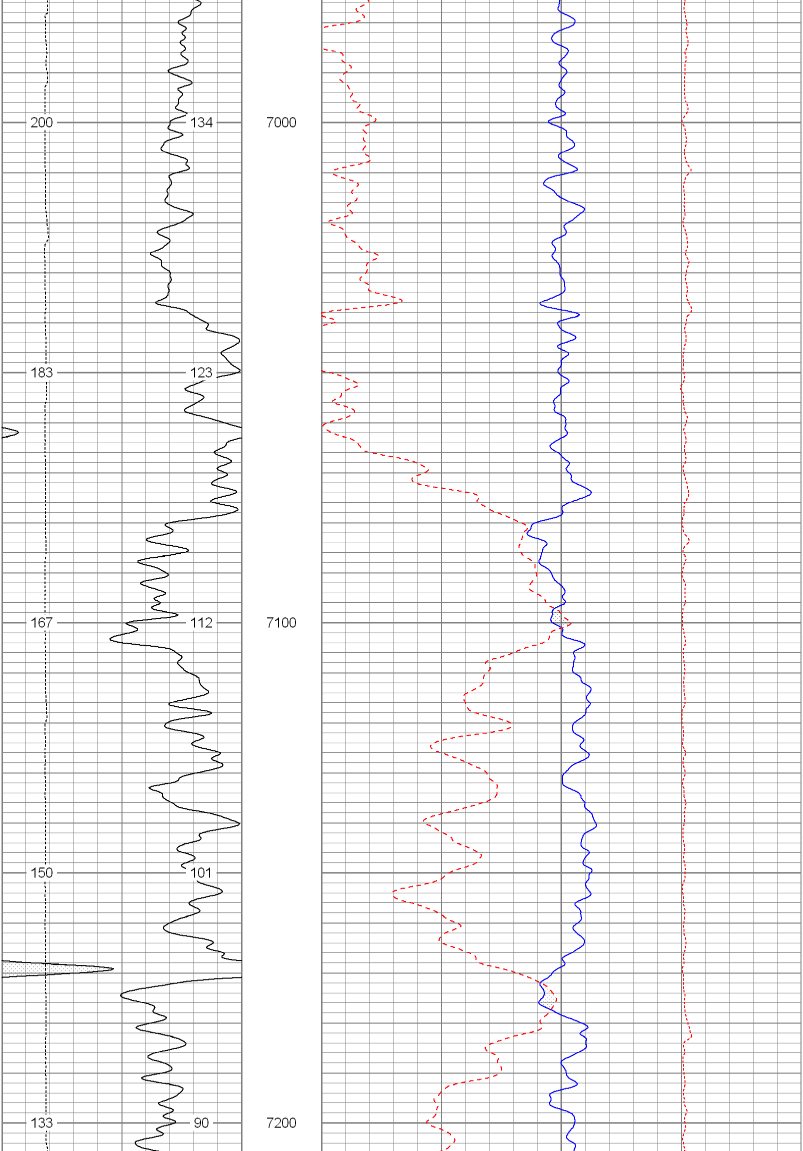
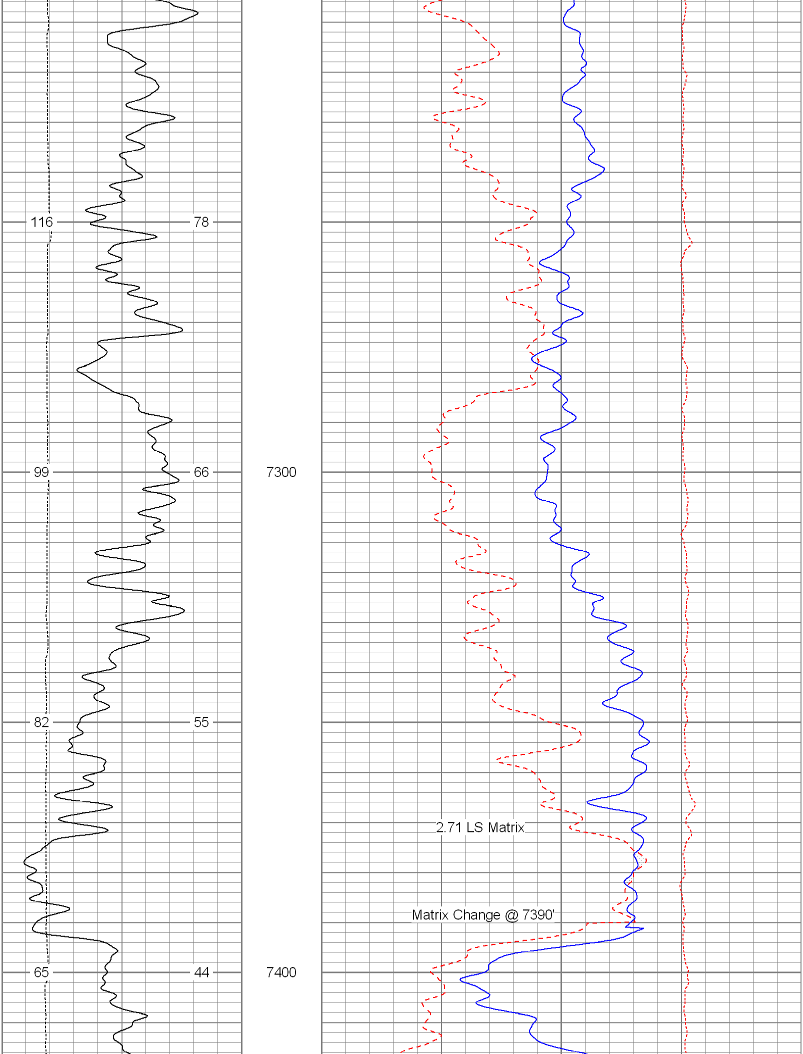
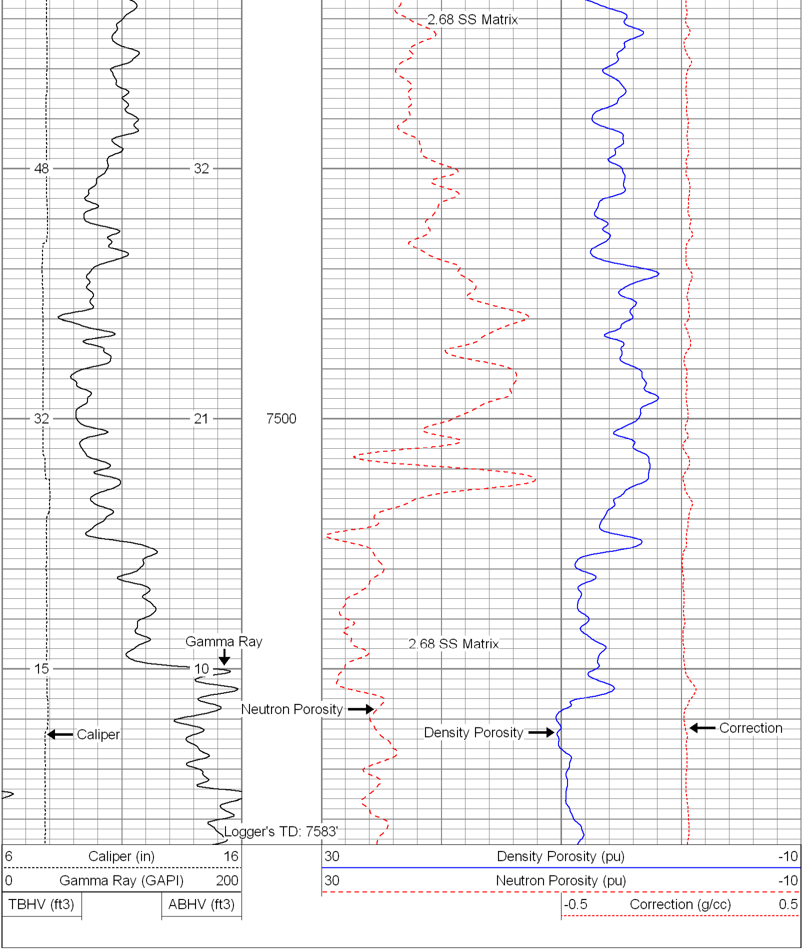
6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
TBHV (ft3)
ABHV (ft3)

30 Density Porosity (pu) -10
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