PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company
Well
Field
County
State/Prv

Company **Great Western Oil & Gas LLC**
Well **HCW 24-53**
Field **LaPoudre**
County **Weld** State/Province **Colorado**

Location
1319' FSL & 1321' FWL
NWSW
Sec 24, Twp - 6N, Rge - 67W

Other Services
High
Resolution
Induction

Permanent Datum GL Elevation 4757
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4773
D.F. 4772
G.L. 4757

Date	January 15, 2011		
Run Number	1		
Depth Driller	7296		
Depth Logger	7300		
Bottom Logged Interval	7280		
Top Log Interval	3450		
Casing Driller	558		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.3 / 53		
pH / Fluid Loss	8.0 / 9.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.60 @ 62° F		
Rmf @ Meas. Temp	2.20 @ 62° F		
Rmc @ Meas. Temp	4.80 @ 62° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.07 @ 208° F		
Time Circulation Stopped	0915		
Time Logger on Bottom	1830		
Maximum Recorded Temperature	208° F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Shaun Schuman		
Witnessed By	Jay Pape		

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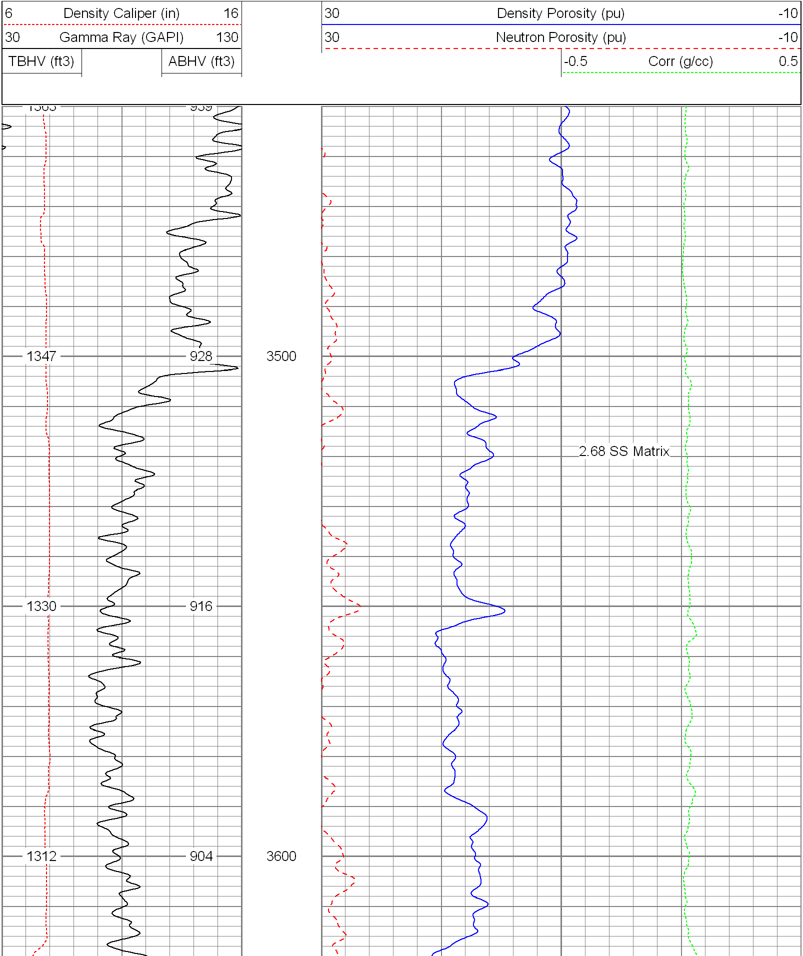
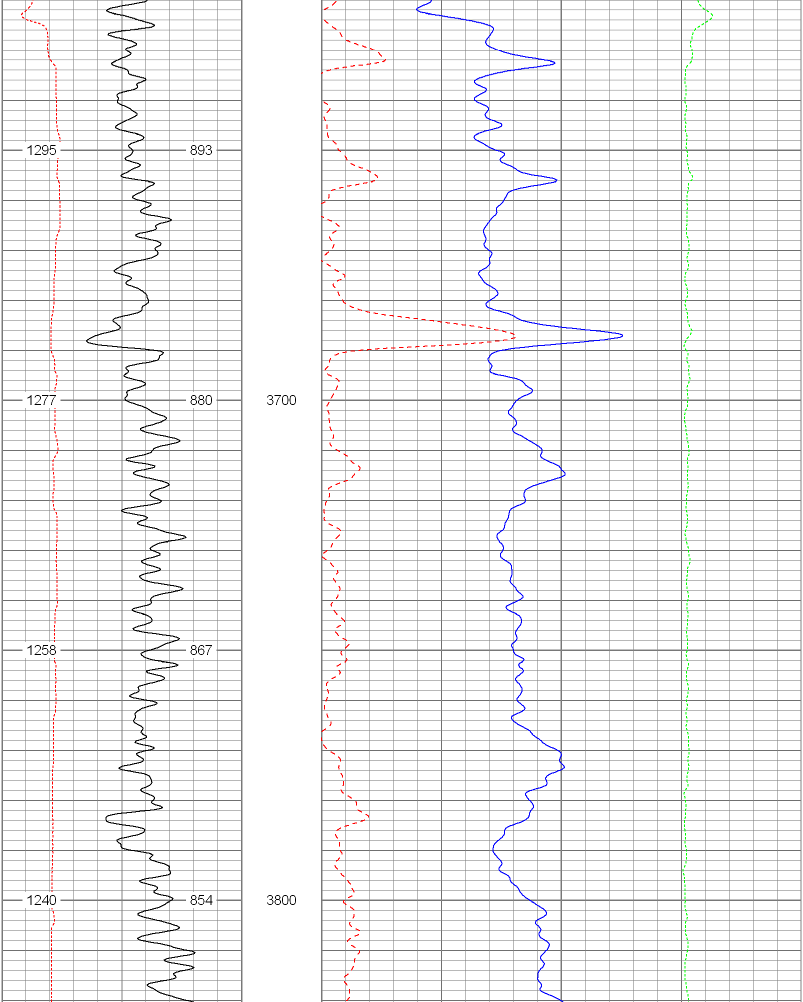
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

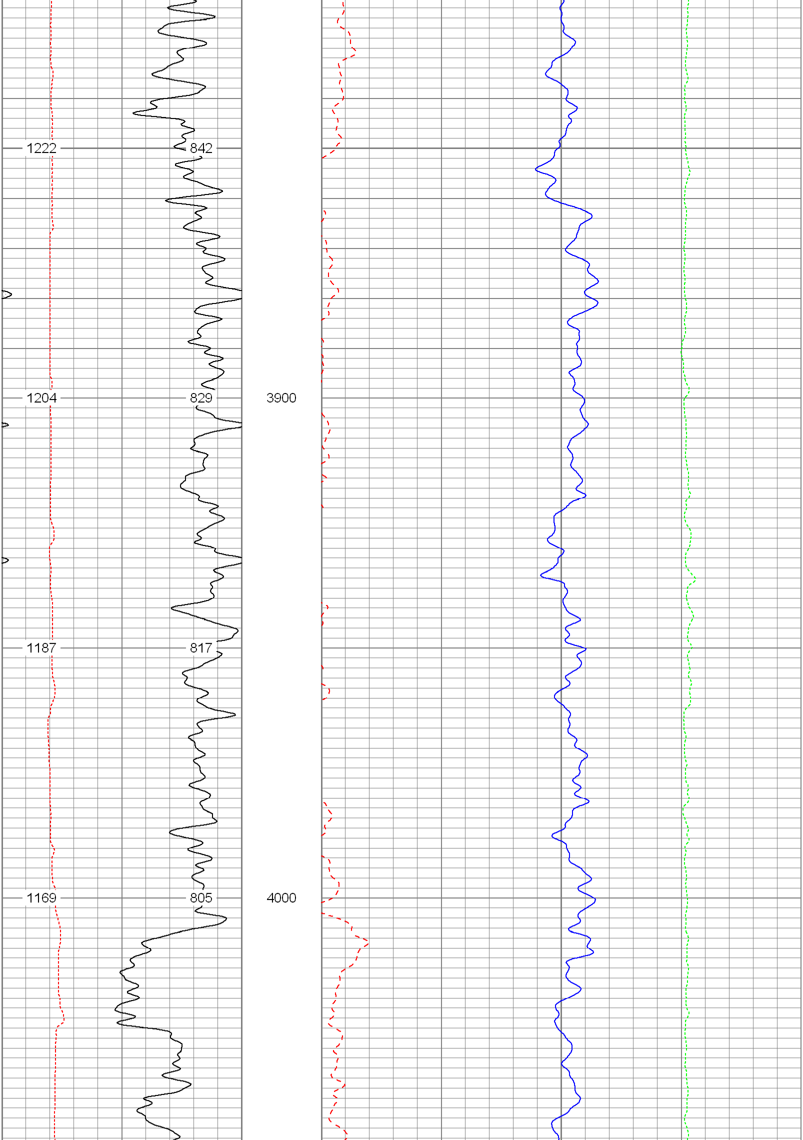
Comments

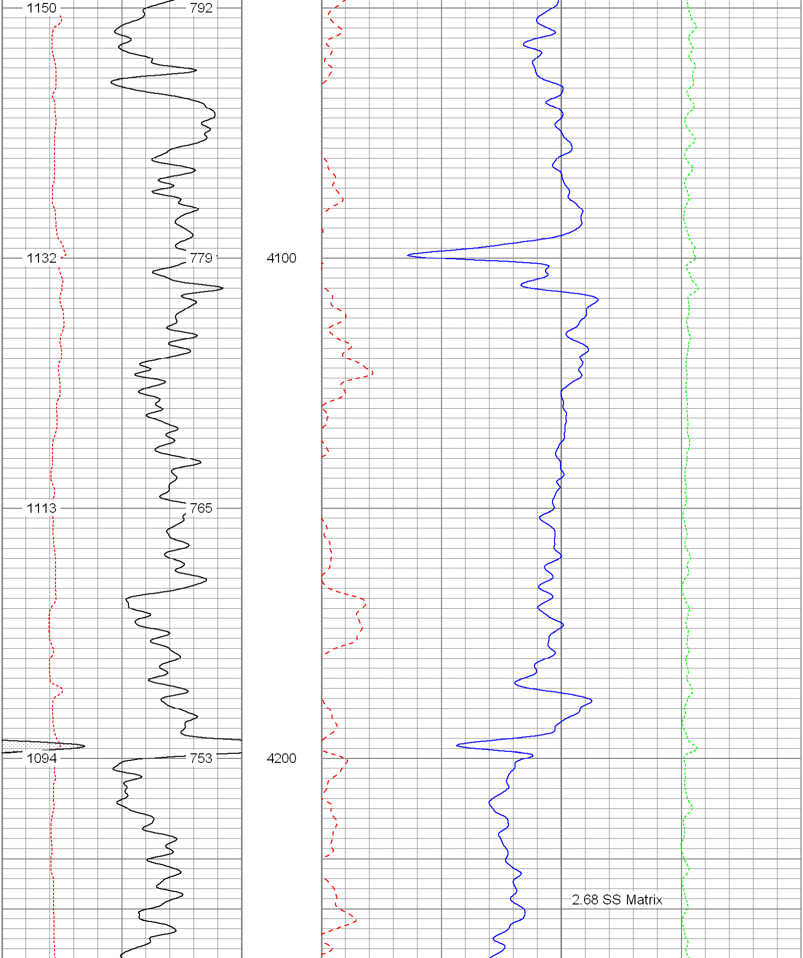
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 7
Thank you for using Phoenix Surveys.
API #: 05-123-31501
No repeat pass due to hole conditions.

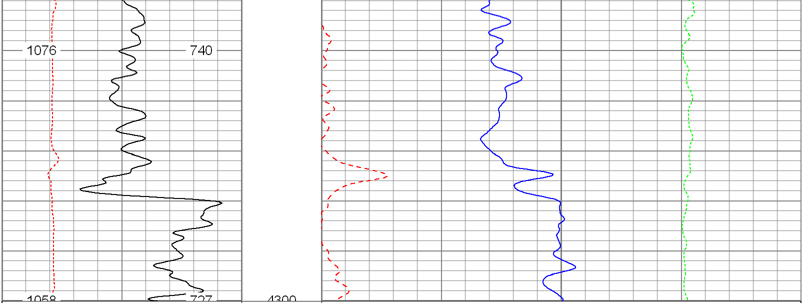
Database File:	11385.db
Dataset Pathname:	main
Presentation Format:	poro1
Dataset Creation:	Sat Jan 15 19:49:29 2011
Charted by:	Depth in Feet scaled 1:240











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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6 Density Caliper (in) 16

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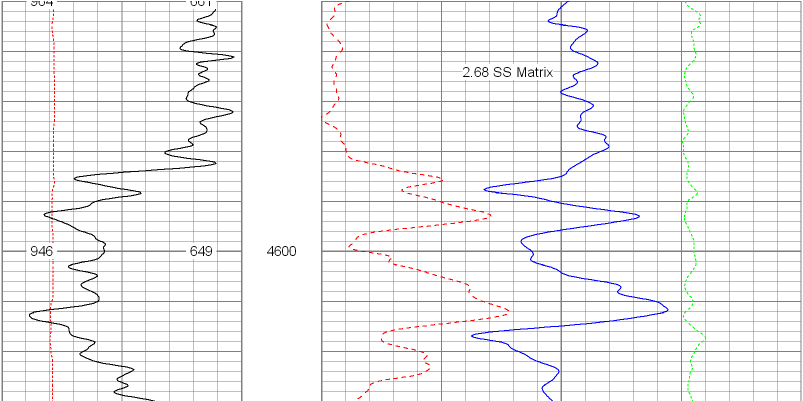

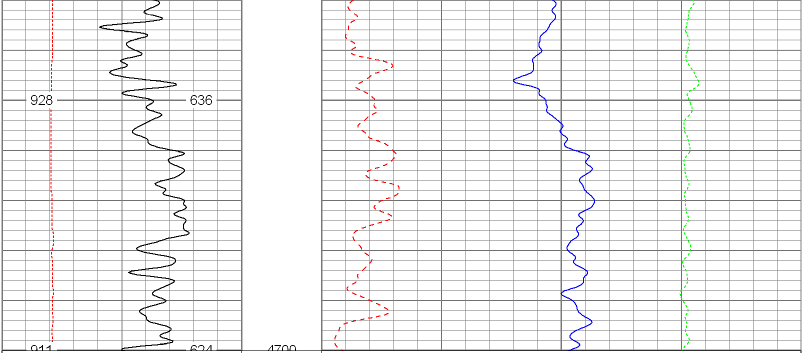

6	Density Caliper (in)	16	30	Density Porosity (pu)	-10
30	Gamma Ray (GAPI)	130	30	Neutron Porosity (pu)	-10
TBHV (ft3)		ABHV (ft3)	-0.5	Corr (g/cc)	0.5

Database File:	11385.db
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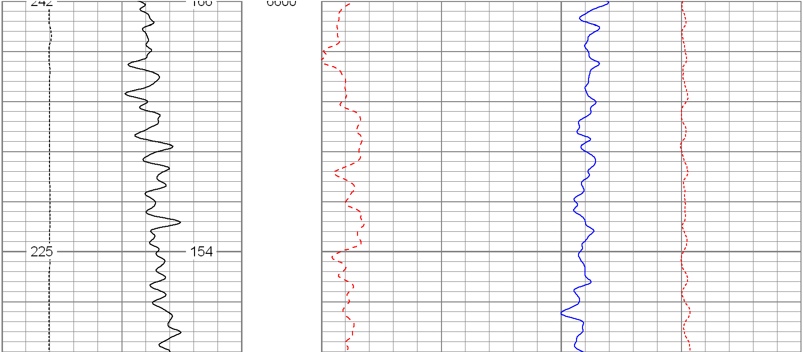
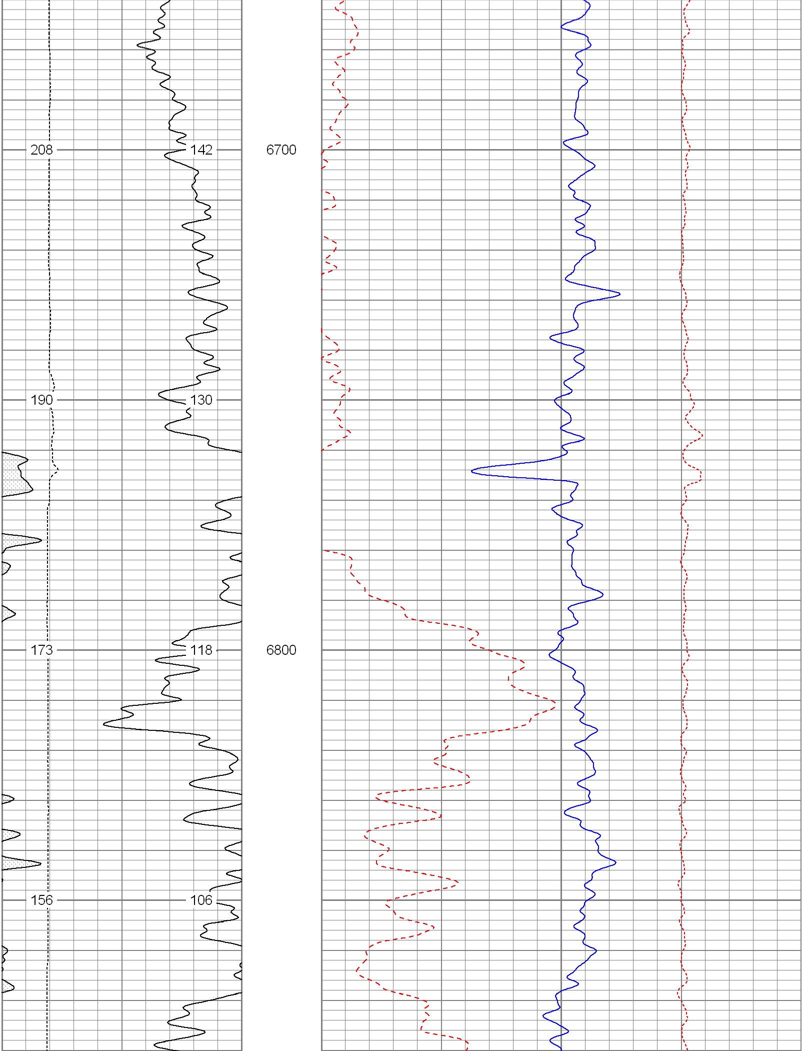
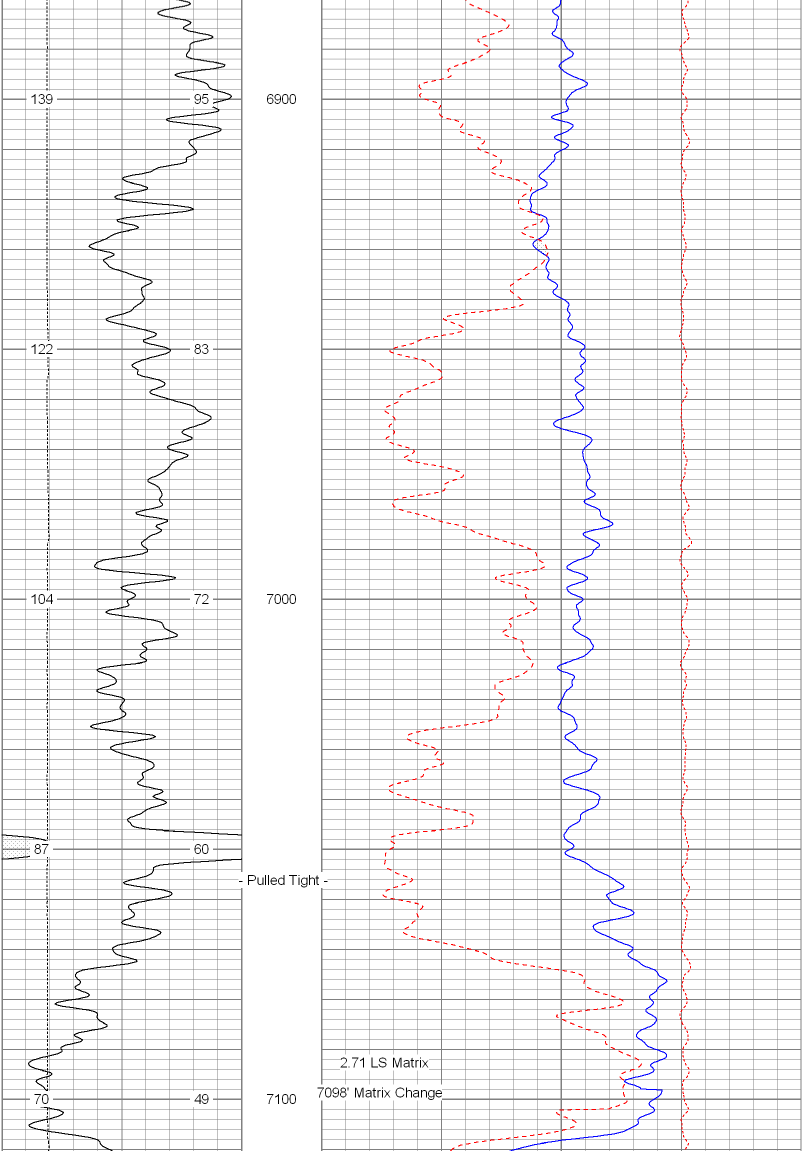
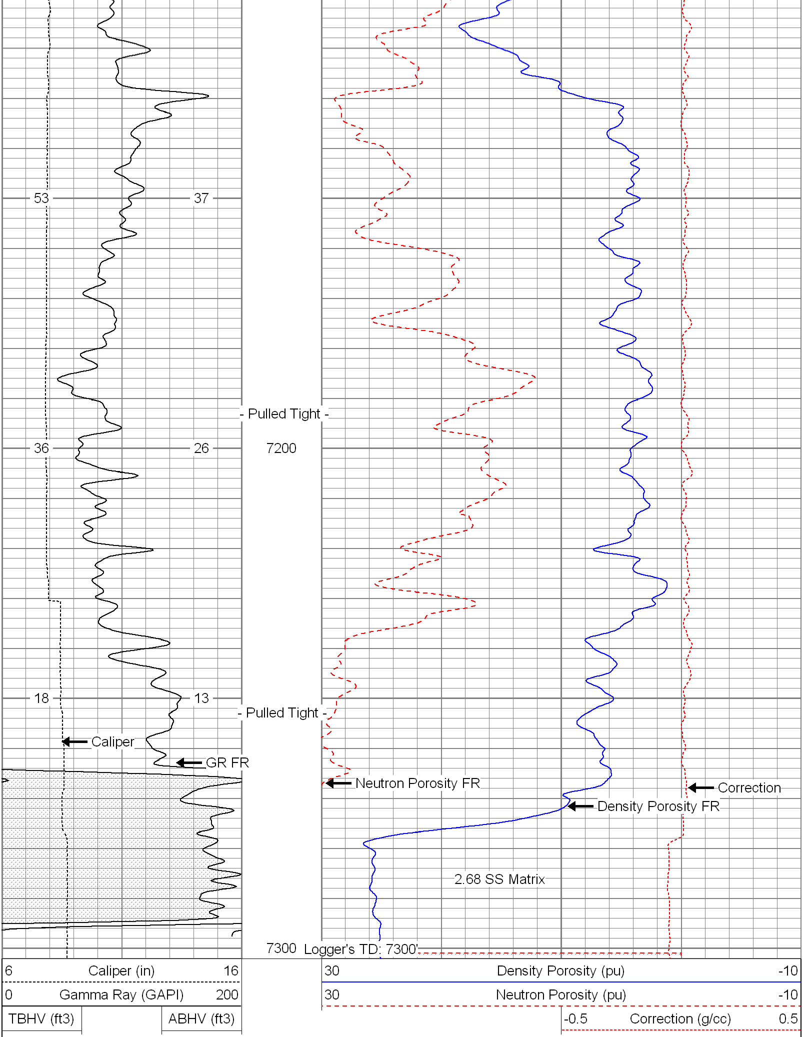
6	Caliper (in)	16	30	Density Porosity (pu)	-10
0	Gamma Ray (GAPI)	200	30	Neutron Porosity (pu)	-10
TBHV (ft3)		ABHV (ft3)	-0.5	Correction (g/cc)	0.5









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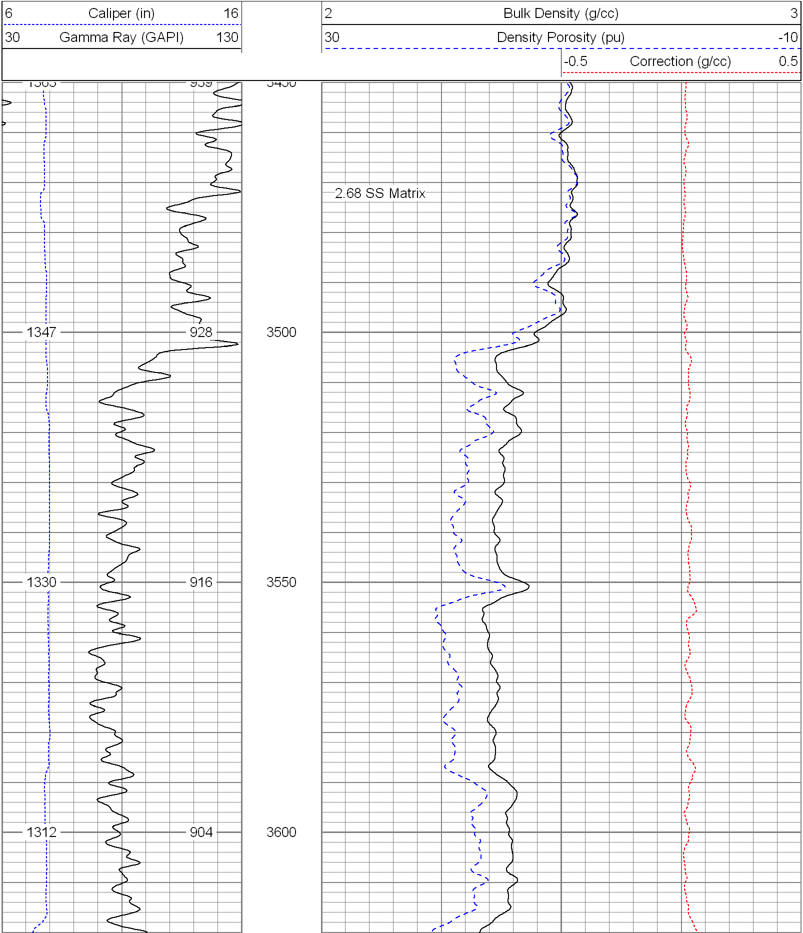

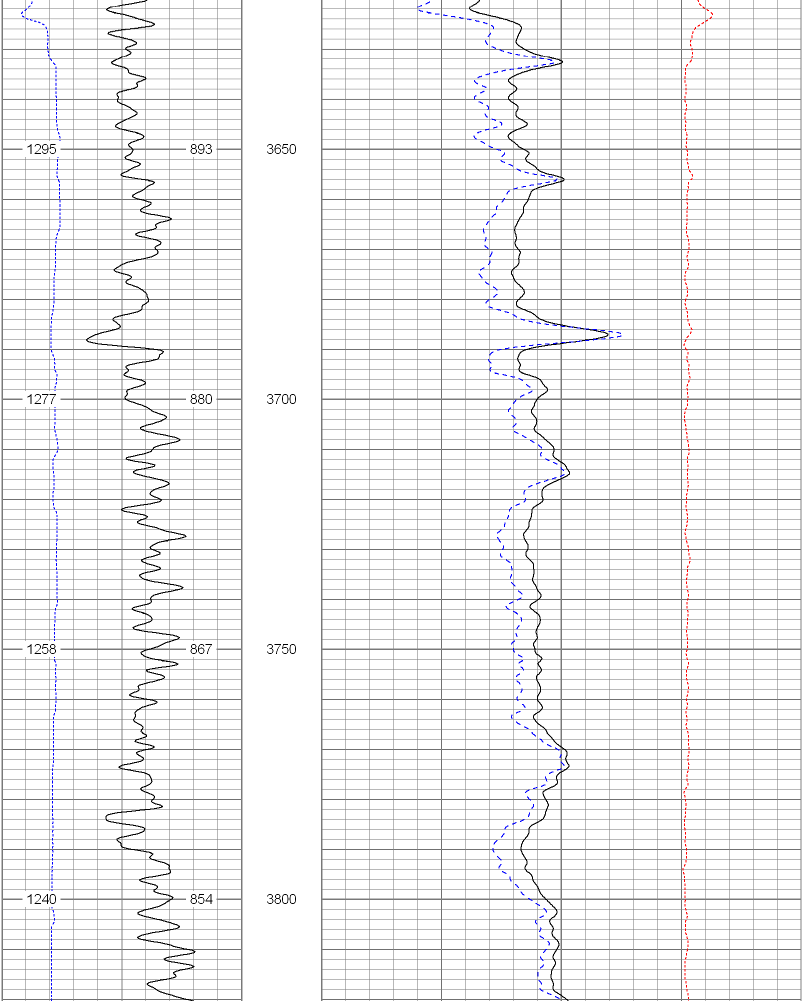

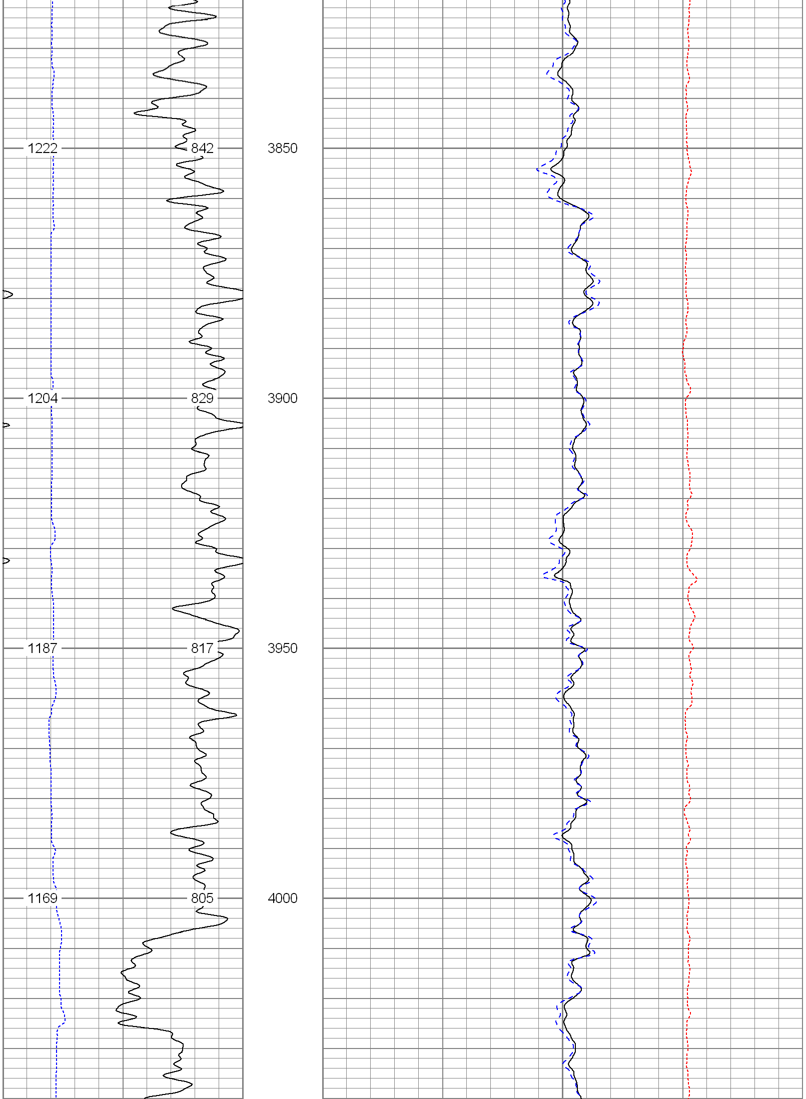

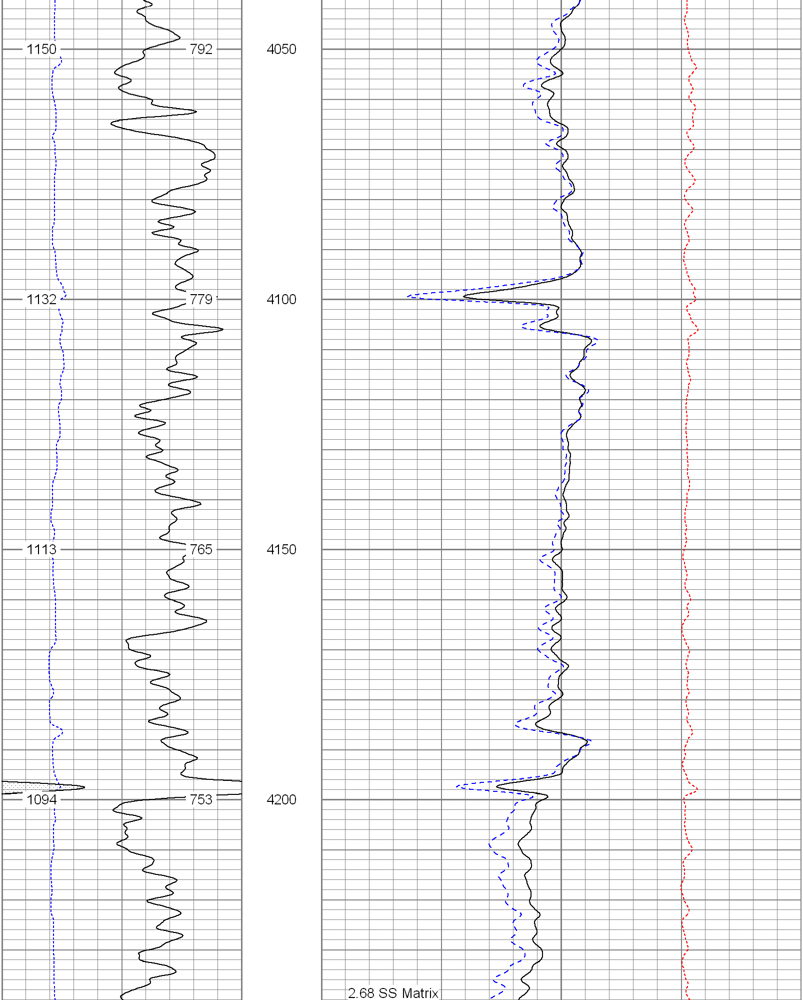

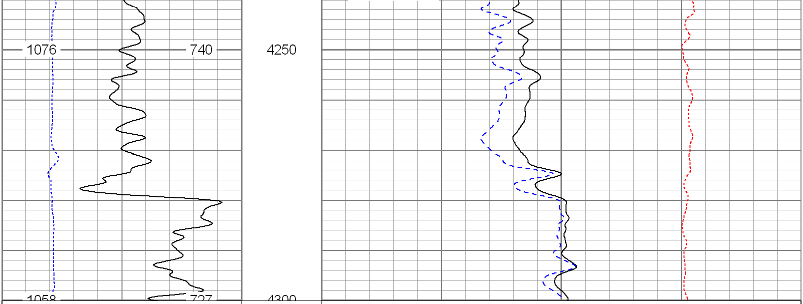

6	Caliper (in)	16
30	Gamma Ray (GAPI)	130
2	Bulk Density (g/cc)	3
30	Density Porosity (pu)	-10
-0.5	Correction (g/cc)	0.5

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Presentation Format:	cdl1
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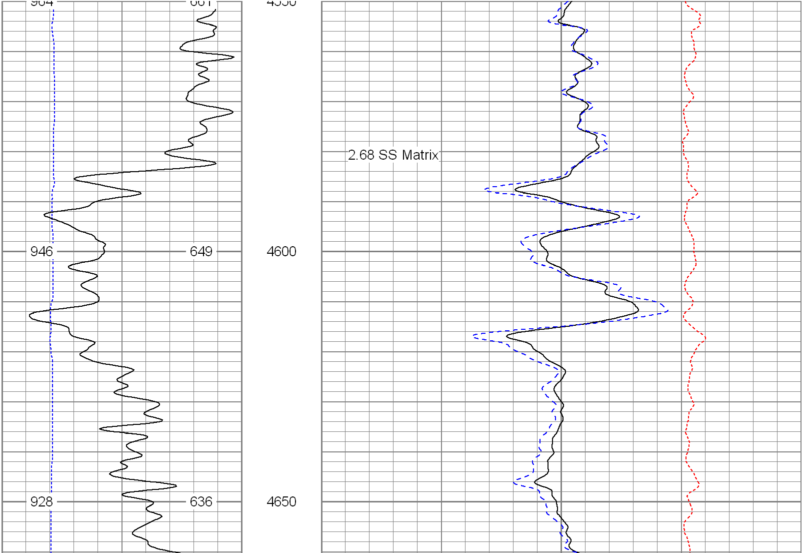
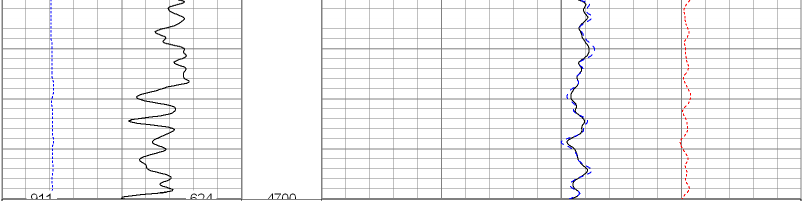
6	Caliper (in)	16
30	Gamma Ray (GAPI)	130
2	Bulk Density (g/cc)	3
30	Density Porosity (pu)	-10
-0.5	Correction (g/cc)	0.5





6 Caliper (in) 16

30 Gamma Ray (GAPI) 130

2 Bulk Density (g/cc) 3

30 Density Porosity (pu) -10

-0.5 Correction (g/cc) 0.5

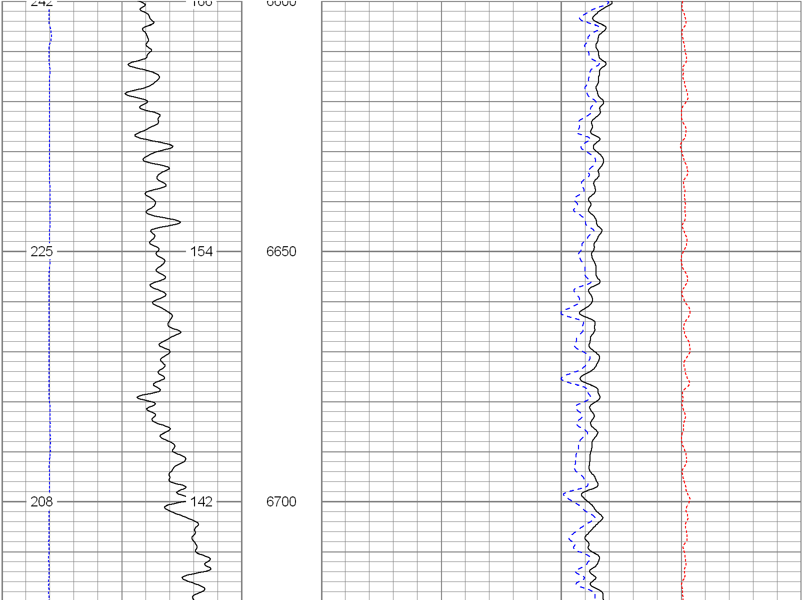
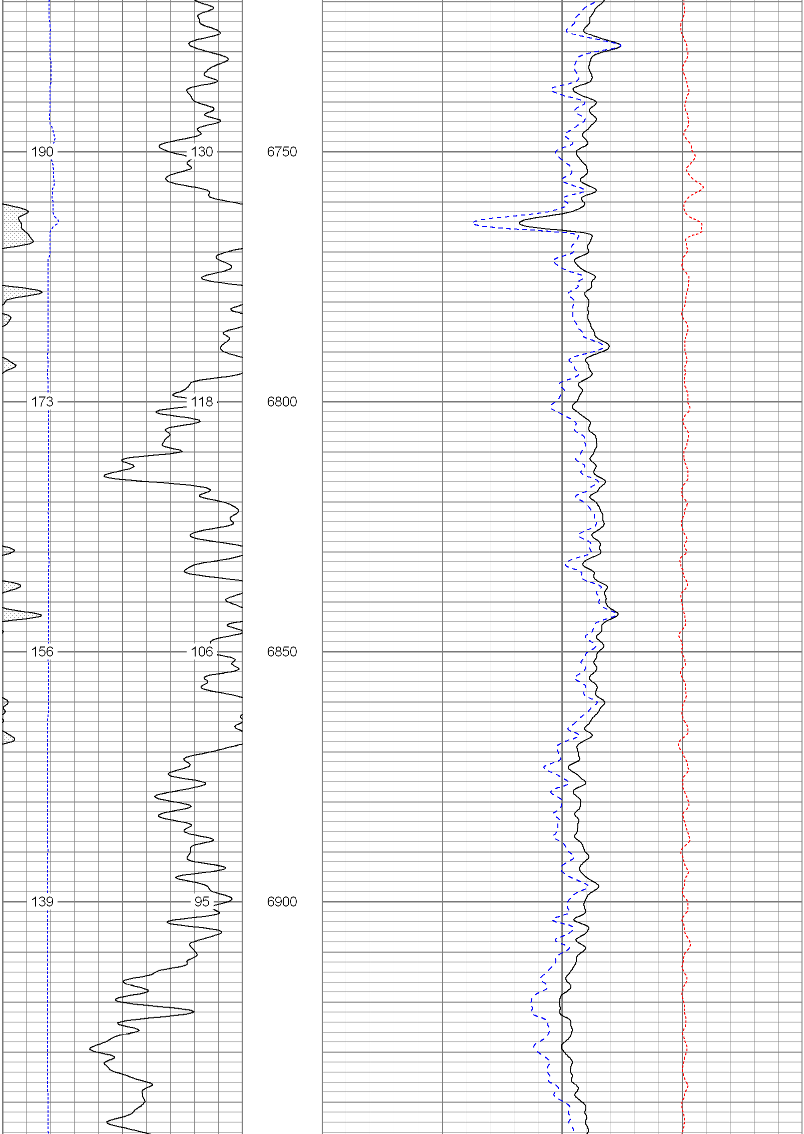
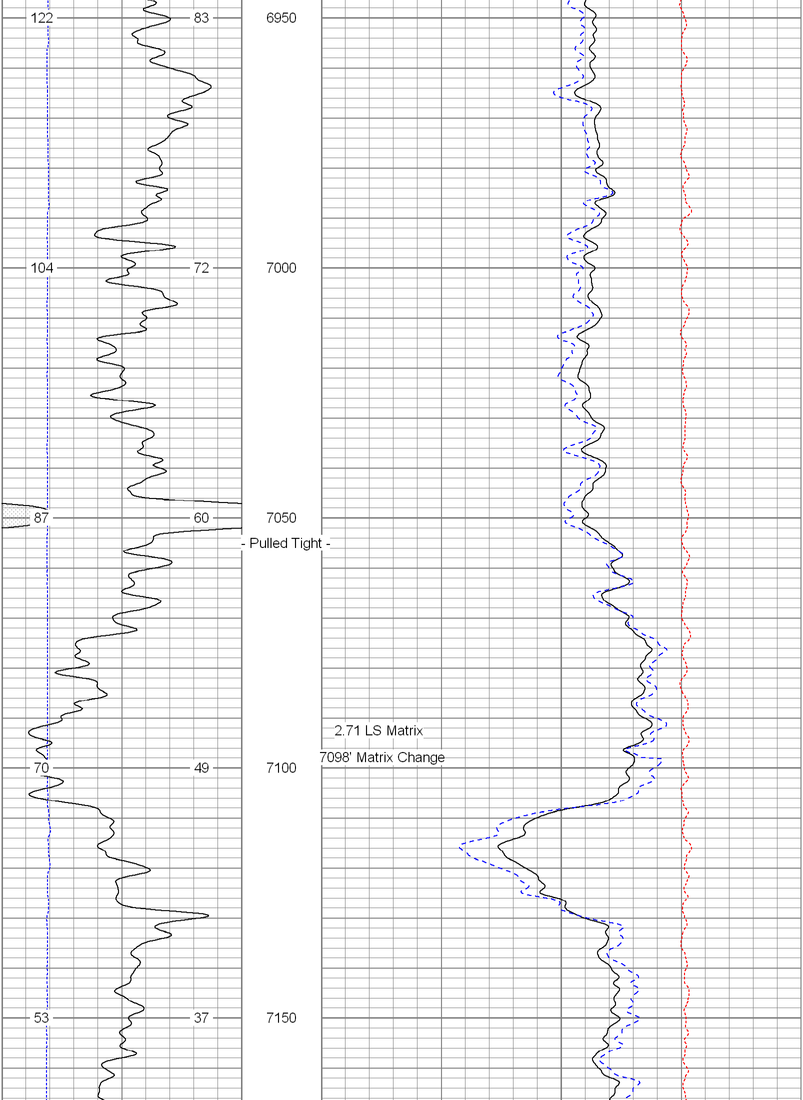
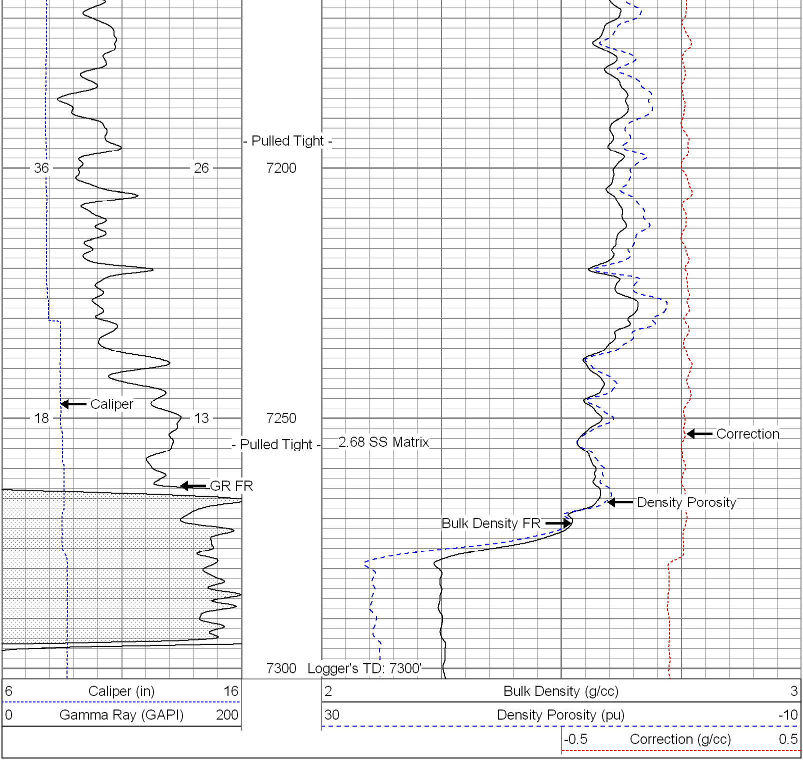
Database File:	11385.db
Dataset Pathname:	main
Presentation Format:	cdl
Dataset Creation:	Sat Jan 15 19:49:29 2011
Charted by:	Depth in Feet scaled 1:240

6 Caliper (in) 16

0 Gamma Ray (GAPI) 200

2 Bulk Density (g/cc) 3

30 Density Porosity (pu) -10

-0.5 Correction (g/cc) 0.5