PSI
PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company
Well
Field
County
State/Prv

Company	Noble Energy Inc.
Well	Wells Ranch USX AE 31-07P
Field	Wattenberg
County	Weld
State/Province	Colorado

Location
1937' FNL & 1936' FEL
SW NE
Sec. 31, Twp. 6N, Rge. 62W

Other Services
Induction

Elevation
K.B. 4726
D.F. 4725
G.L. 4710

Permanent Datum	GL	Elevation	4710
Log Measured From	KB		
Drilling Measured From	KB		

Date	June 20, 2010		
Run Number	1		
Depth Driller	6800		
Depth Logger	6797		
Bottom Logged Interval	6777		
Top Log Interval	2600		
Casing Driller	564		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.0 / 33.0		
pH / Fluid Loss	8.0 / 18.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.65 @ 75° F		
Rmf @ Meas. Temp	2.71 @ 75° F		
Rmc @ Meas. Temp	4.60 @ 75° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.19 @ 201° F		
Time Circulation Stopped	2315 6/19/10		
Time Logger on Bottom	1000		
Maximum Recorded Temperature	201° F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Ian Harris		
Witnessed By	Mike Sitton		

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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

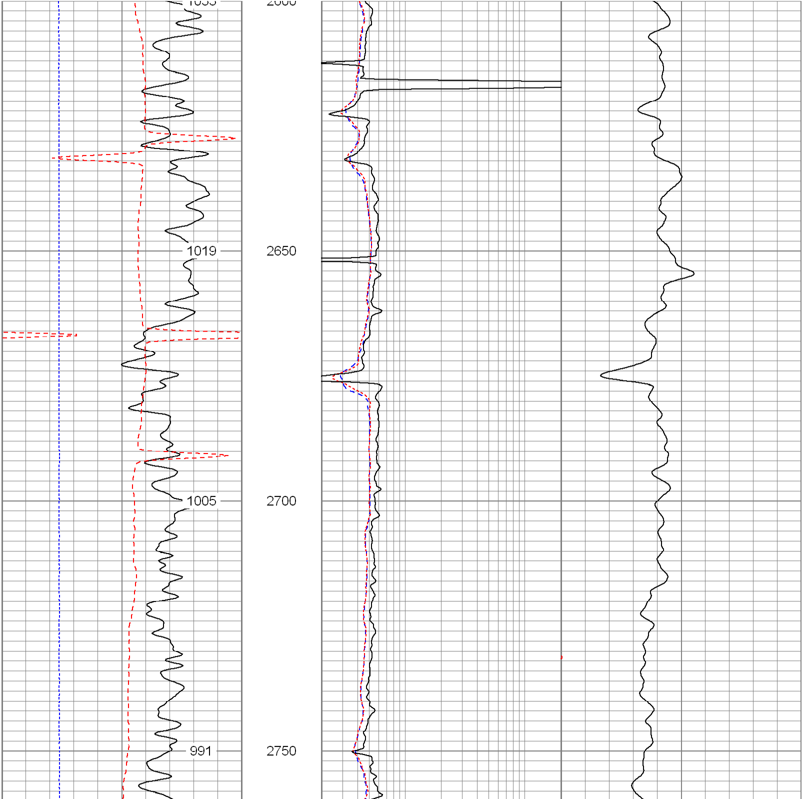
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 55
Thank you for using Phoenix Surveys!!
API #: 05-123-30899-00
No Repeat Due To Hole Conditions

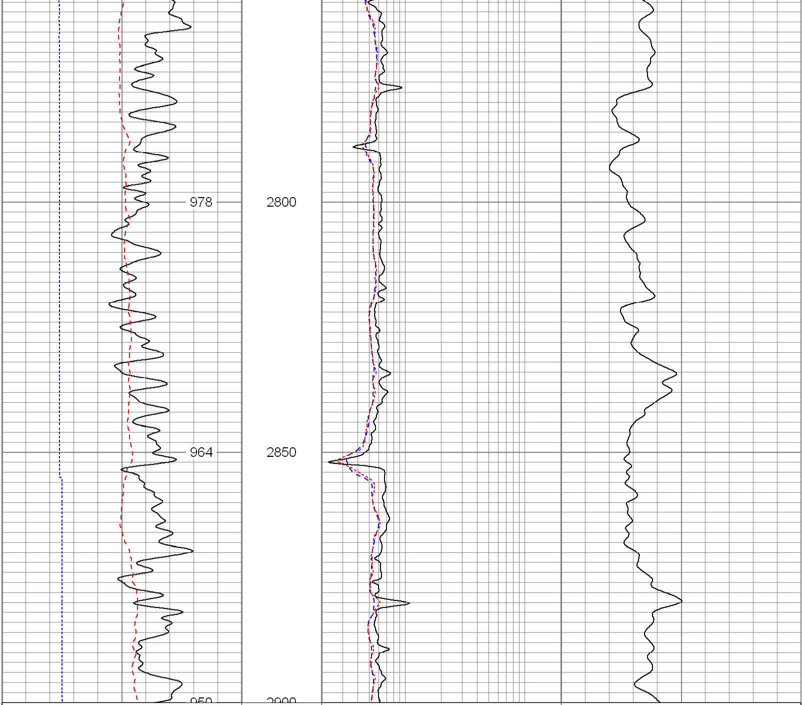
Database File:	10732.db
Dataset Pathname:	final
Presentation Format:	pdc1
Dataset Creation:	Sun Jun 20 11:50:28 2010
Charted by:	Depth in Feet scaled 1:240

6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
90 SP (mV) 190
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





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
90 SP (mV) 190	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)		

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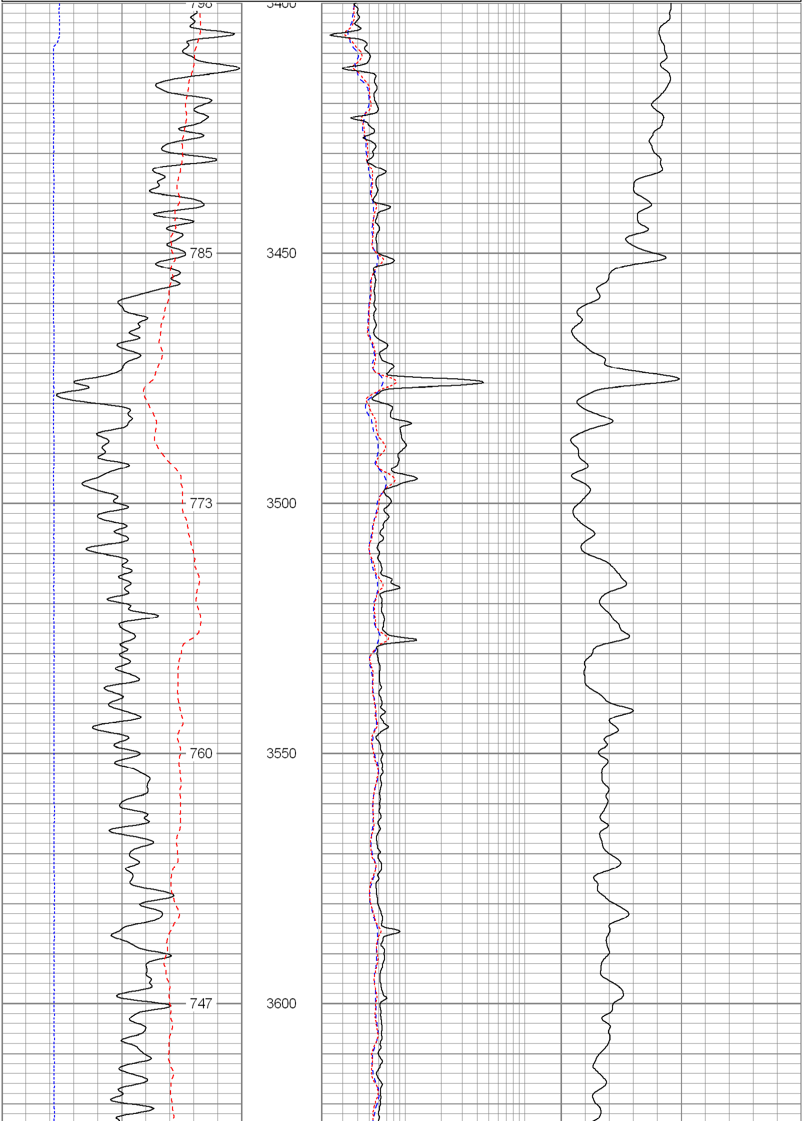
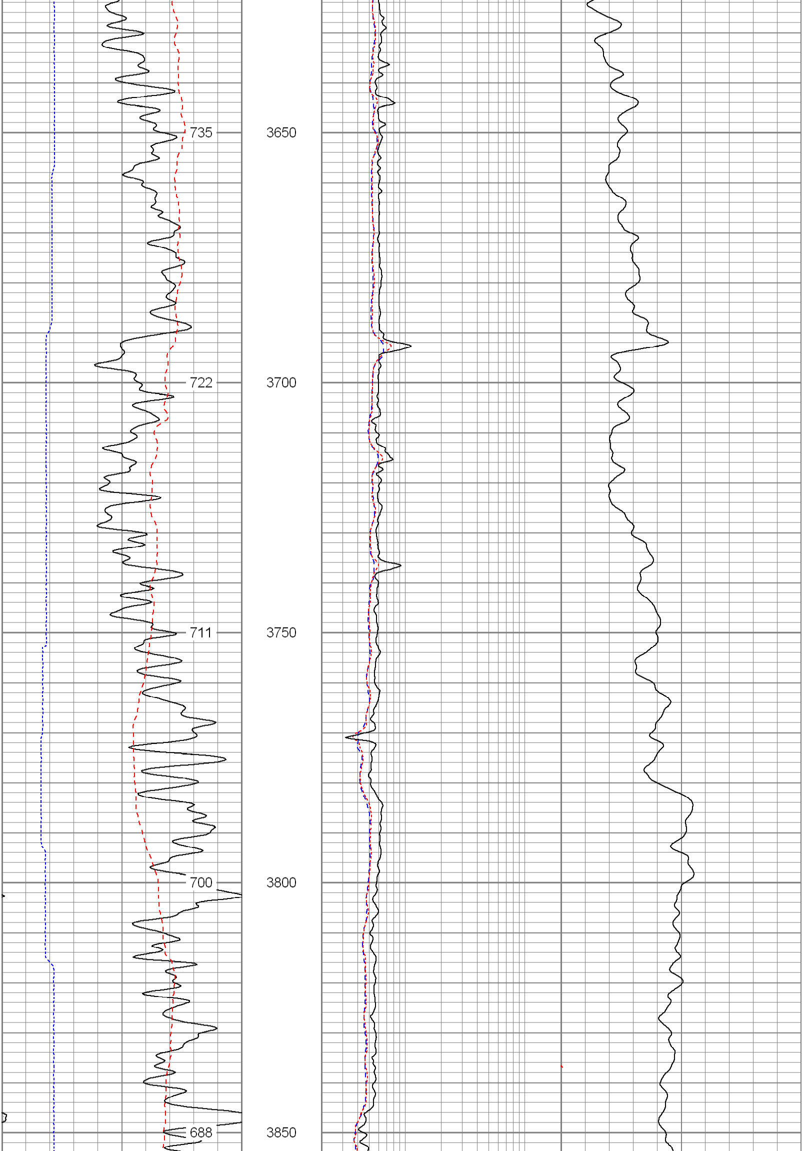
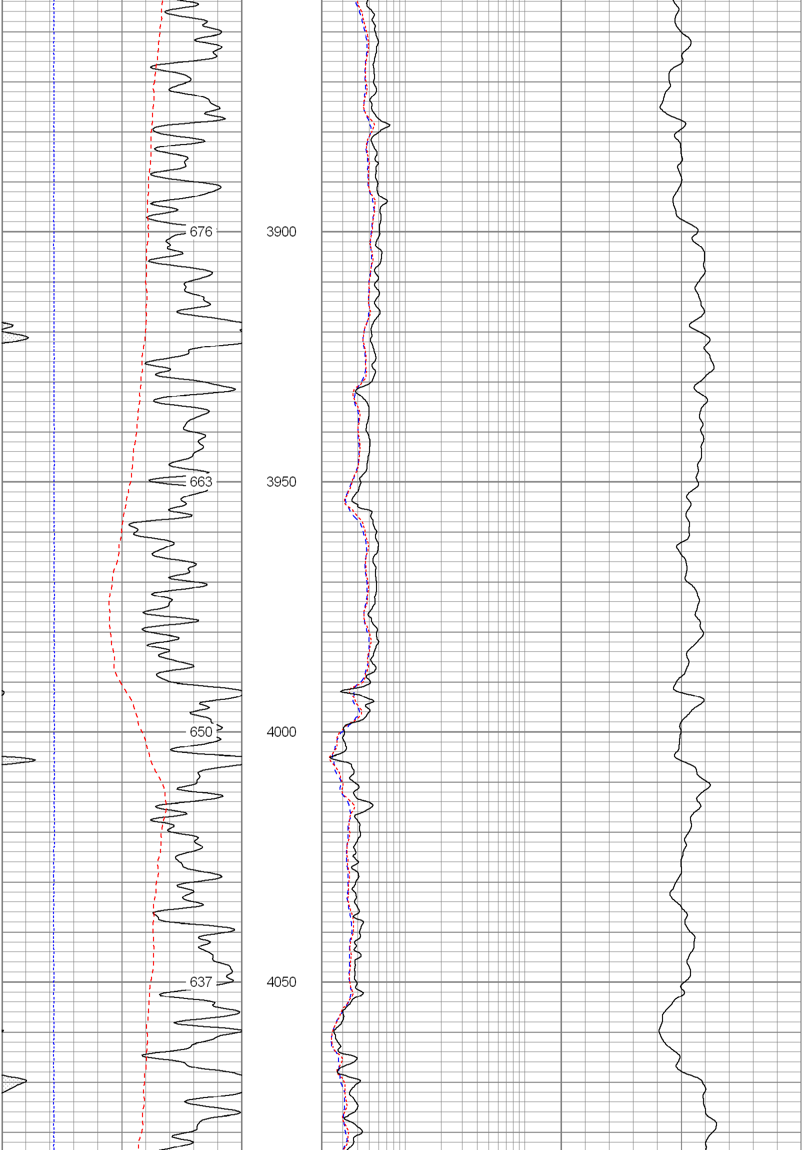
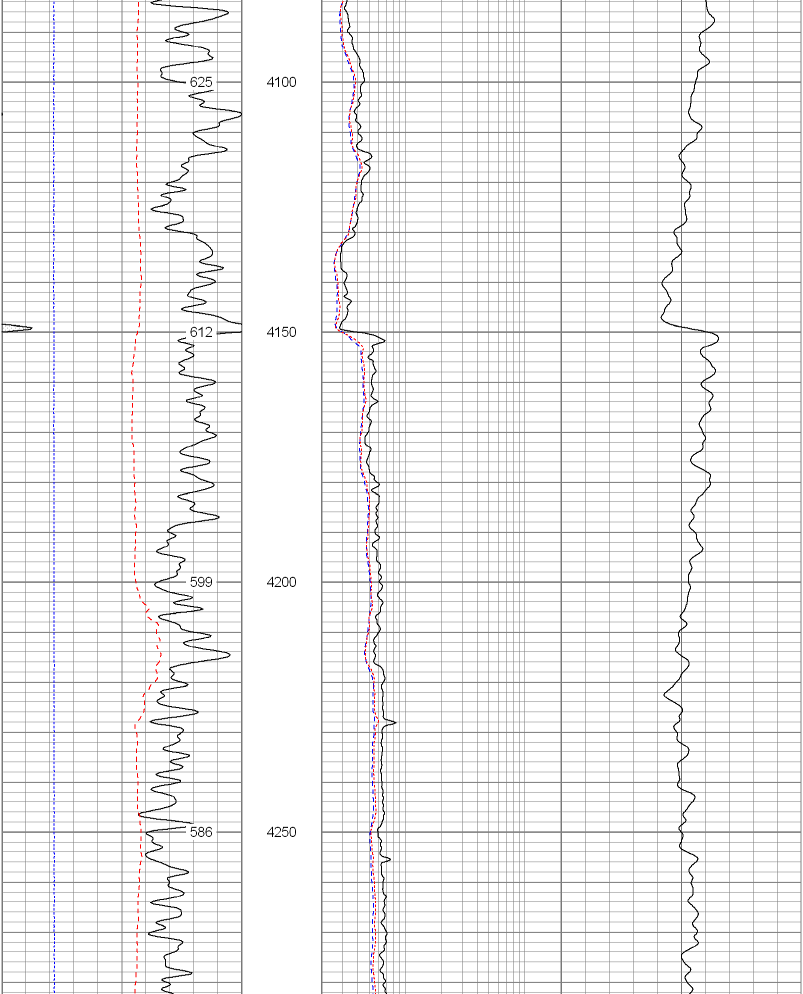
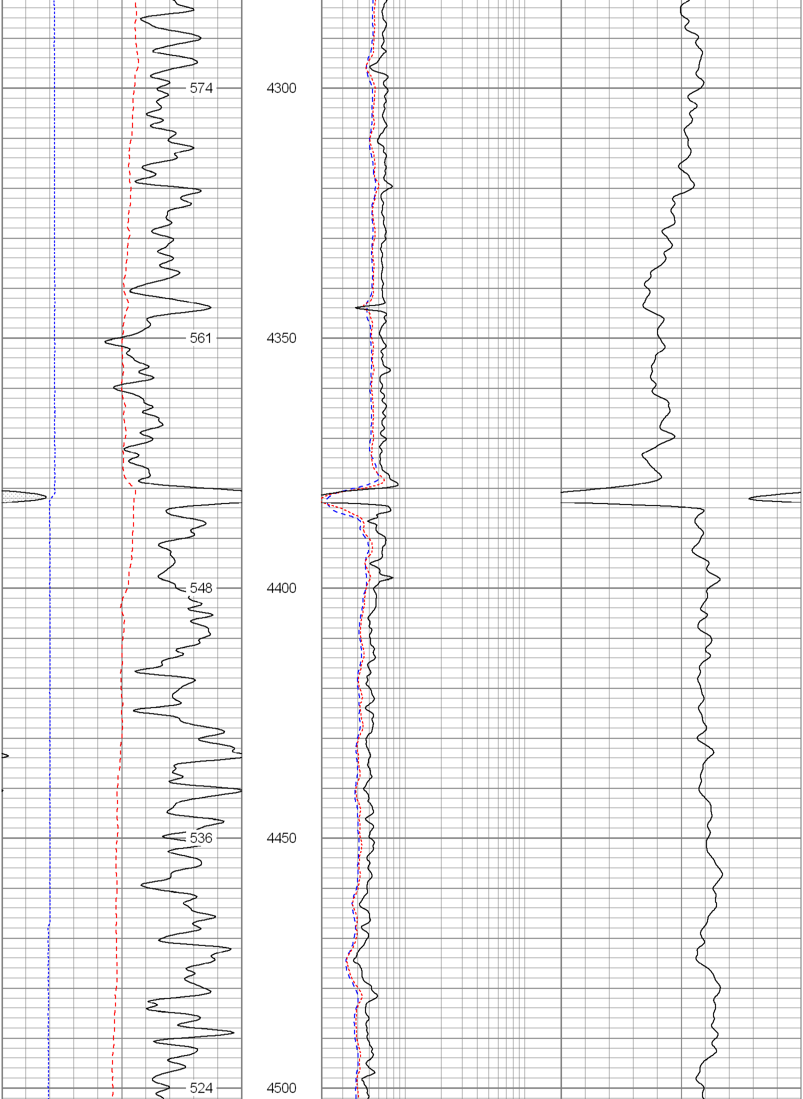
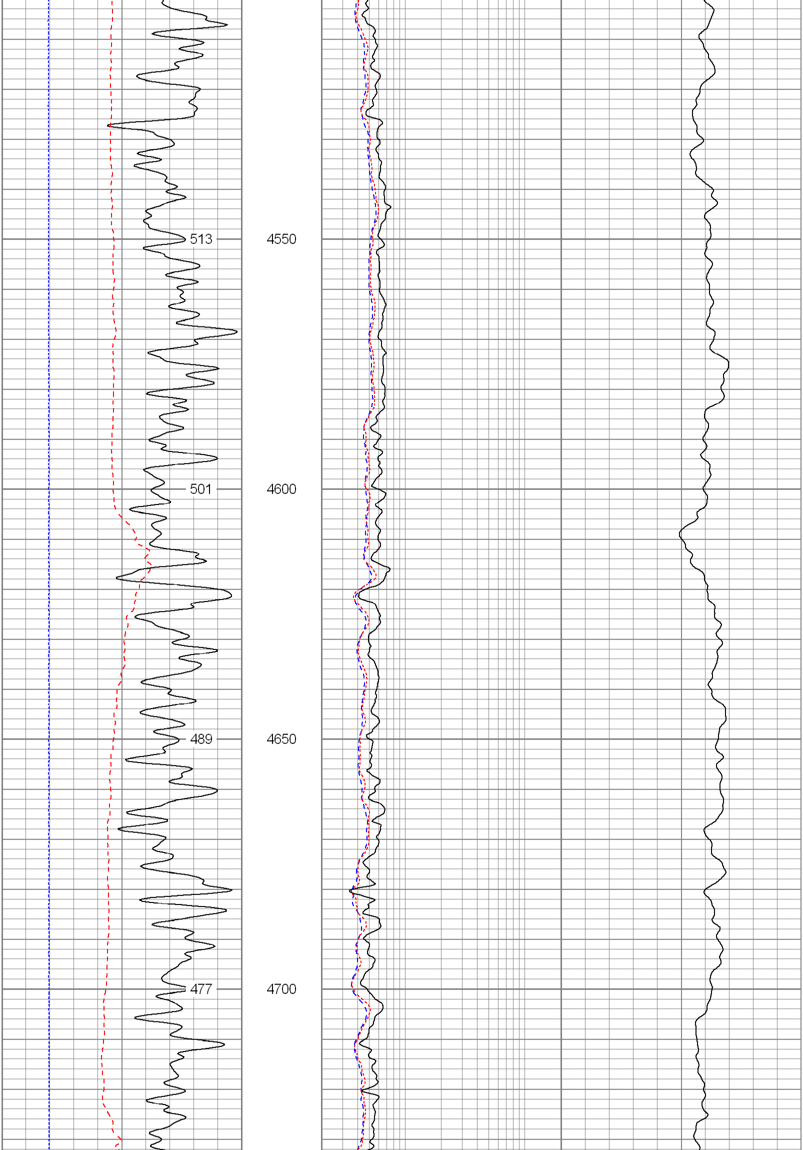


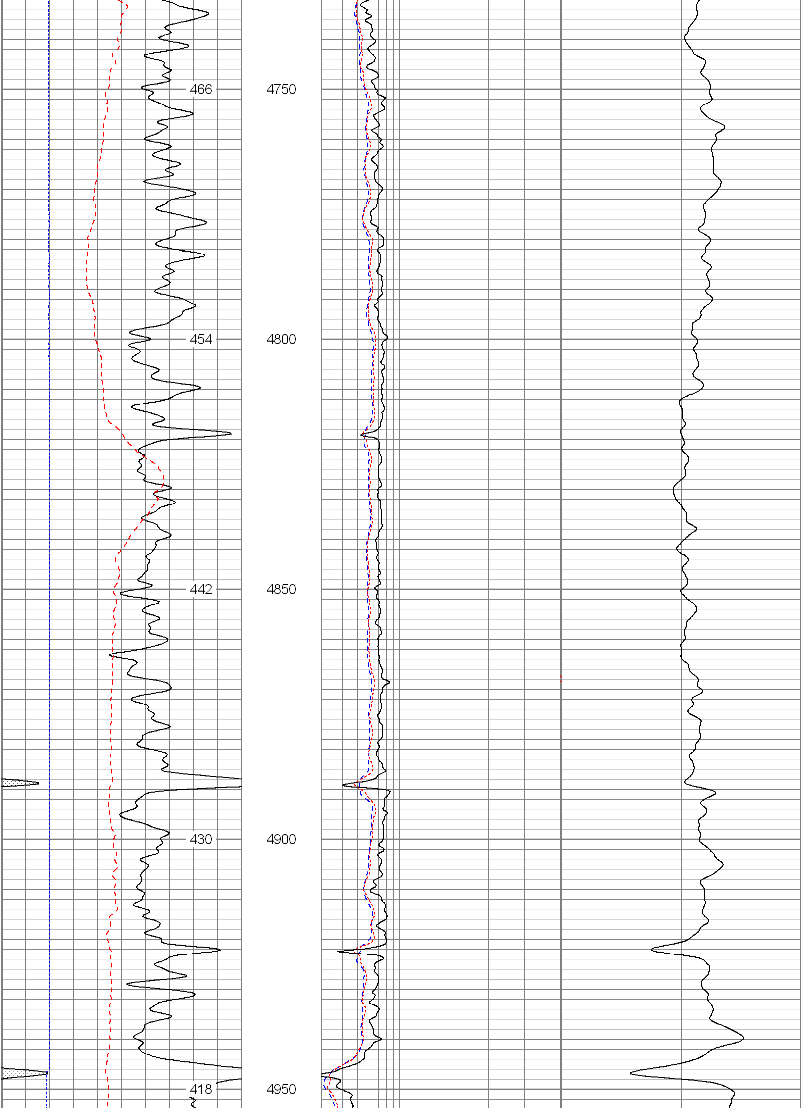


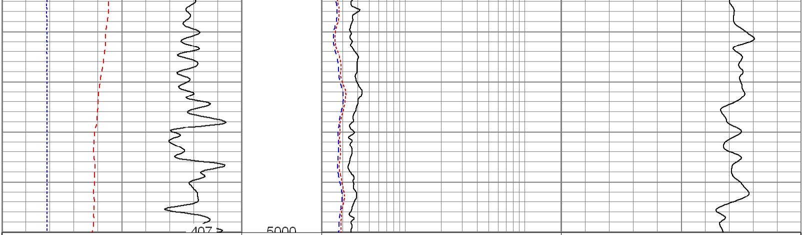












6	Density Caliper (in)	16
30	Gamma Ray (GAPI)	130
90	SP (mV)	190
	ABHV (ft3)	

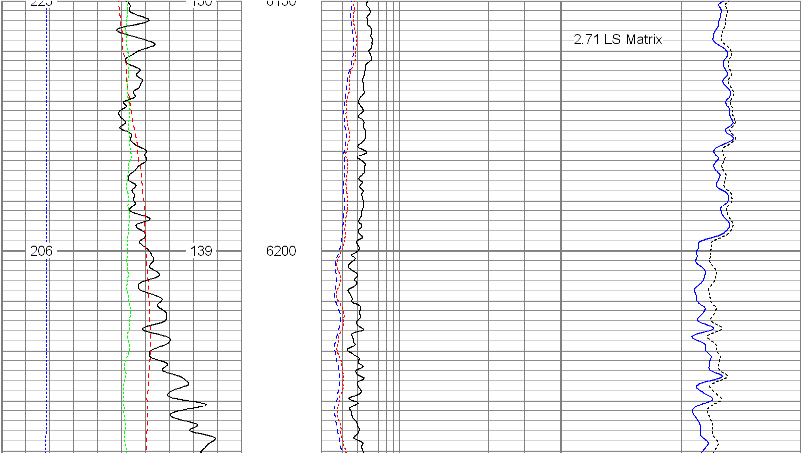
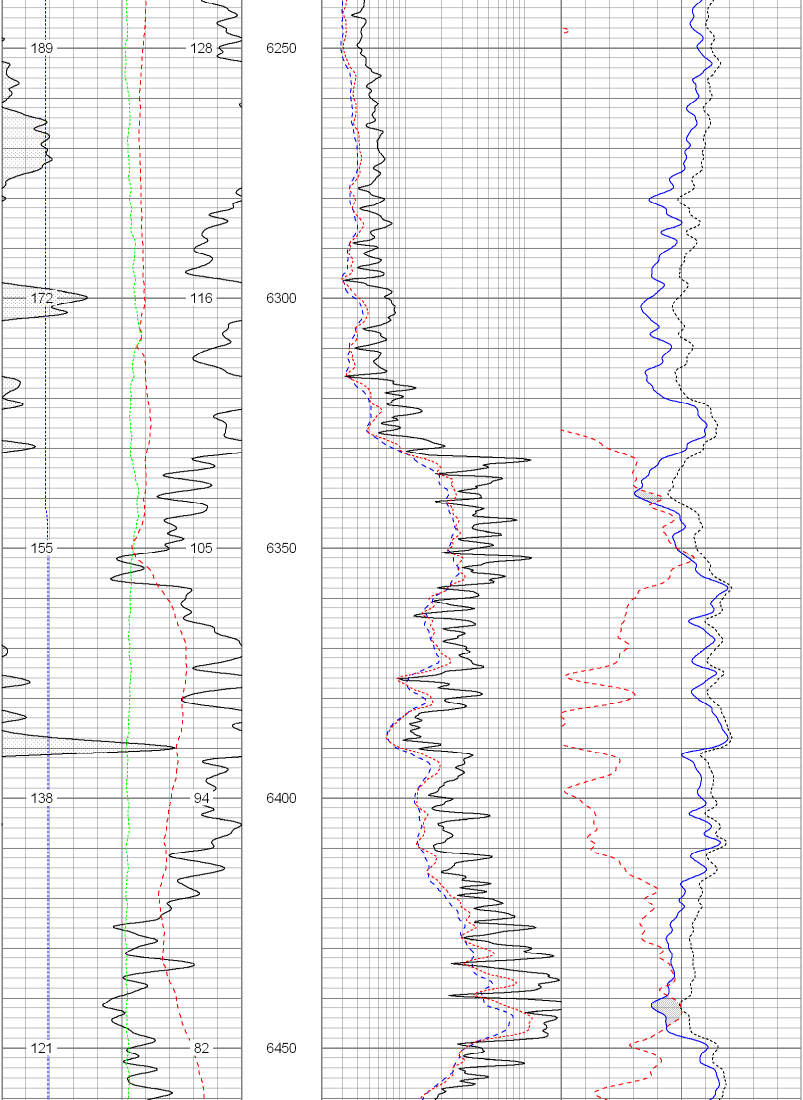
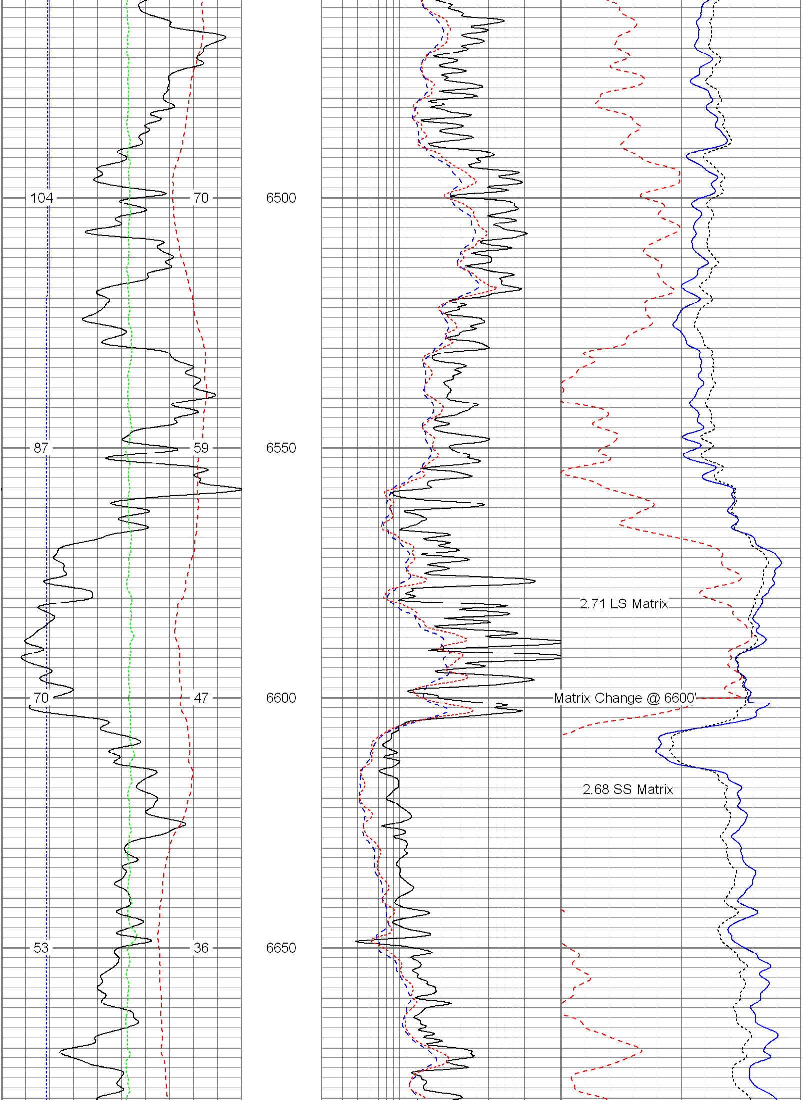
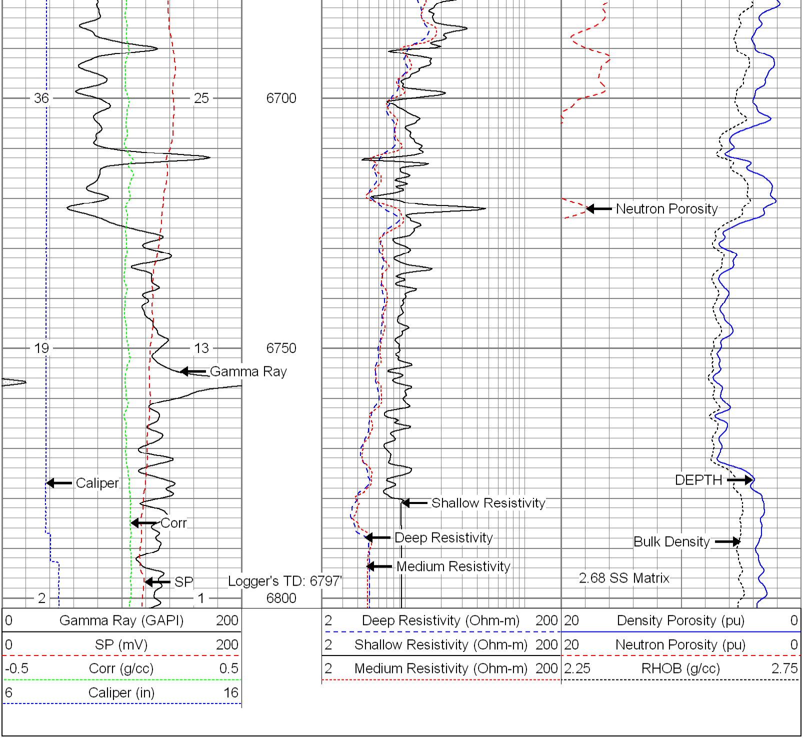
2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200

20	Density Porosity (pu)	0
20	Neutron Porosity (pu)	0

Database File:	10732.db
Dataset Pathname:	main
Presentation Format:	split20
Dataset Creation:	Sun Jun 20 11:16:32 2010
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200
0	SP (mV)	200
-0.5	Corr (g/cc)	0.5
6	Caliper (in)	16

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

20	Density Porosity (pu)	0
20	Neutron Porosity (pu)	0
2.25	RHOB (g/cc)	2.75