PSI
PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
MICROLOG

Company	Company	Noble Energy Inc.	
Well	Well	Marley C01-30D	
Field	Field	Wattenberg	
County	County	Weld	State/Province Colorado
State/Prv	Location	SHL: 509' FNL & 652' FWL NW NW BHL: 48' FNL & 91' FWL NW NW Sec. 1, Twp. 4N, Rge. 64W	Other Services High Resolution Induction

Permanent Datum	GL	Elevation 4607	Elevation K.B. 4622 D.F. 4621 G.L. 4607
Log Measured From	KB		
Drilling Measured From	KB		

Date	April 12, 2011		
Run Number	1		
Depth Driller	6978		
Depth Logger	6975		
Bottom Logged Interval	6955		
Top Log Interval	2440		
Casing Driller	574		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.4 / 55		
pH / Fluid Loss	8.0 / 14.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.19 @ 76 F		
Rmf @ Meas. Temp	2.39 @ 76 F		
Rmc @ Meas. Temp	3.98 @ 76 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.15 @ 201 F		
Time Circulation Stopped	0330		
Time Logger on Bottom	1015		
Maximum Recorded Temperature	201 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Maciej Staron		
Witnessed By	Brody Hansen		

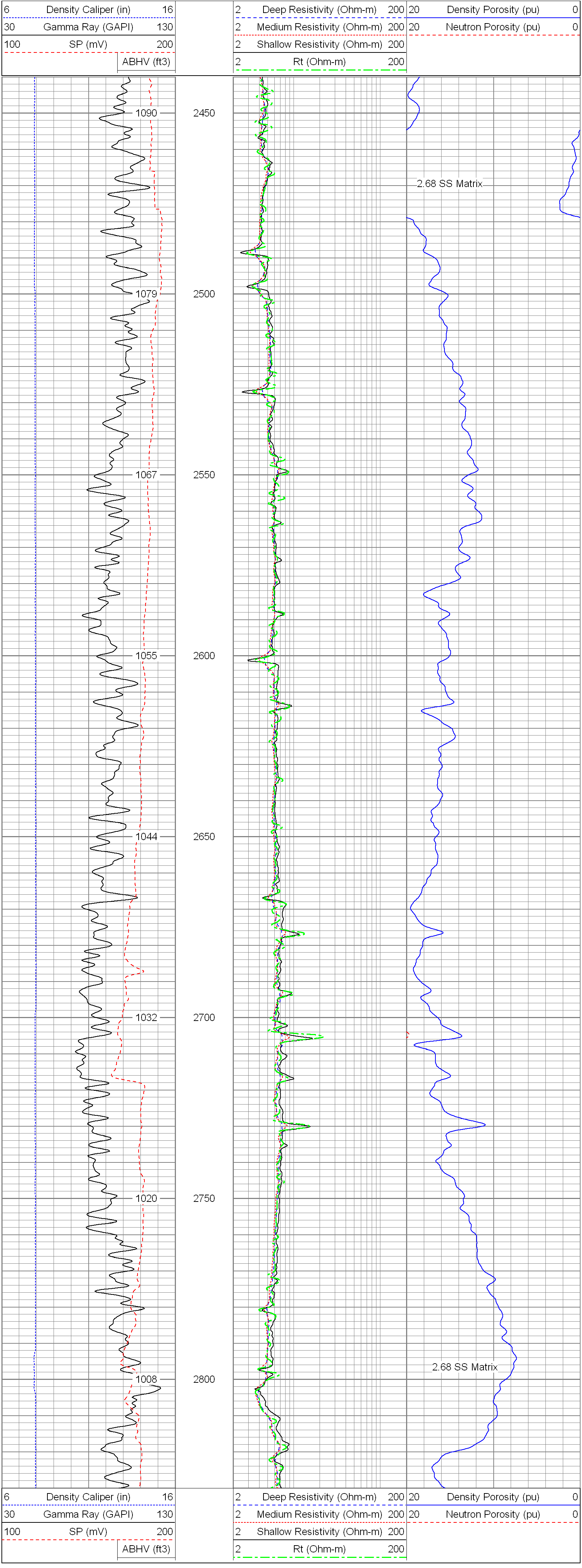
<<< Fold Here >>>

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

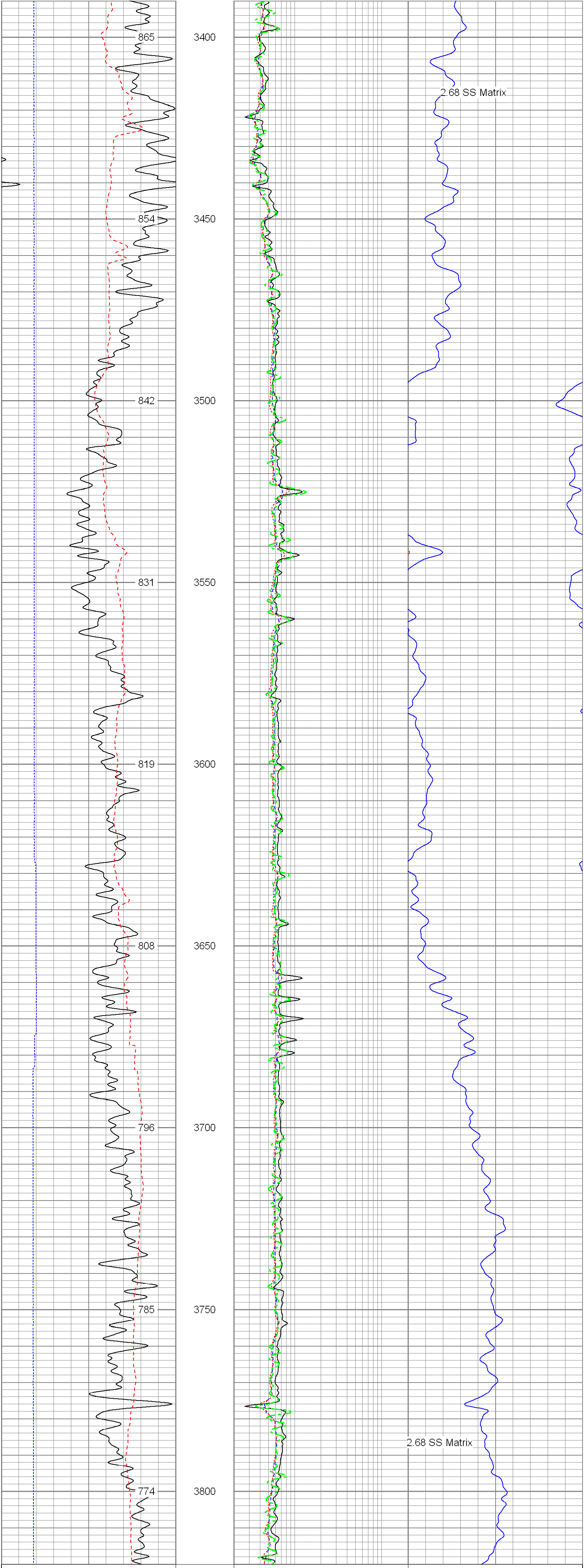
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 128
Thank you for using Phoenix Surveys!!
API #: 05-123-31223-00

Database File:	11550.db
Dataset Pathname:	pass3.5
Presentation Format:	pdc1
Dataset Creation:	Tue Apr 12 11:54:27 2011
Charted by:	Depth in Feet scaled 1:240



Database File: 11550.db
Dataset Pathname: pass3.5
Presentation Format: pdc1
Dataset Creation: Tue Apr 12 11:54:27 2011
Charted by: Depth in Feet scaled 1:240

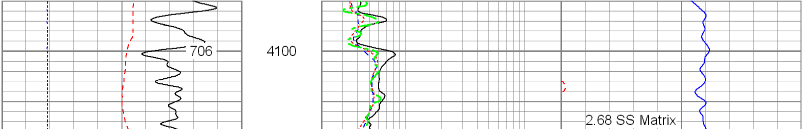
6 Density Caliper (in) 16	2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
30 Gamma Ray (GAPI) 130	2 Medium Resistivity (Ohm-m) 200	20 Neutron Porosity (pu) 0
100 SP (mV) 200	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)	2 Rt (Ohm-m) 200	

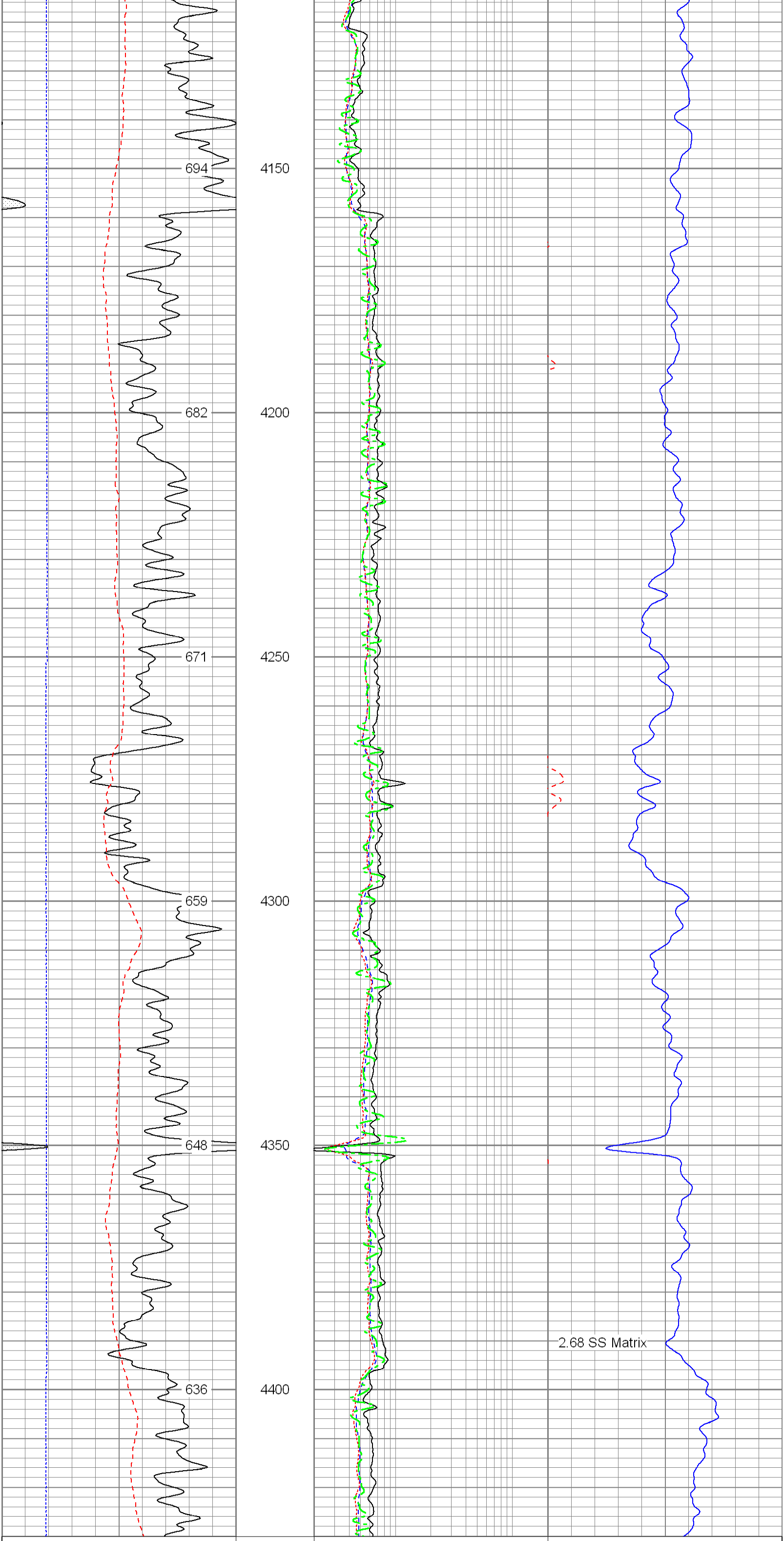


6 Density Caliper (in) 16	2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
30 Gamma Ray (GAPI) 130	2 Medium Resistivity (Ohm-m) 200	20 Neutron Porosity (pu) 0
100 SP (mV) 200	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)	2 Rt (Ohm-m) 200	

Database File: 11550.db
Dataset Pathname: pass3.5
Presentation Format: pdc1
Dataset Creation: Tue Apr 12 11:54:27 2011
Charted by: Depth in Feet scaled 1:240

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
100 SP (mV) 200	2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)	2 Rt (Ohm-m) 200	

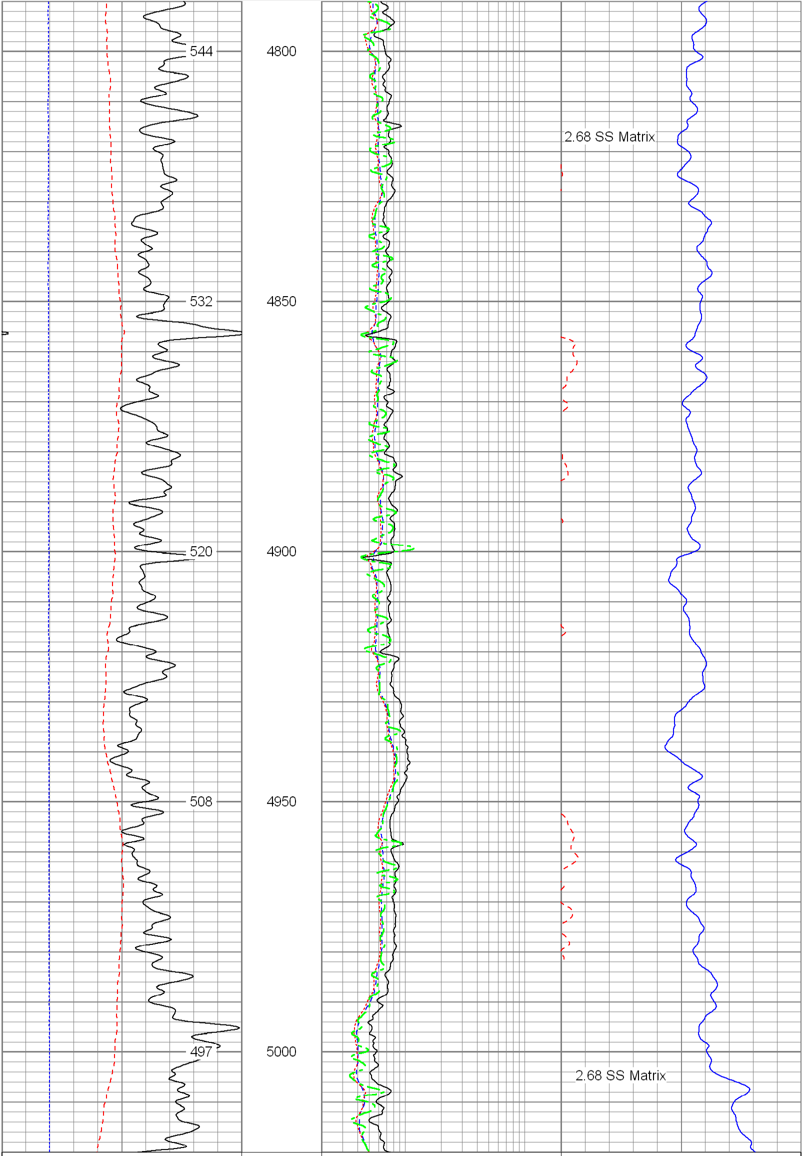




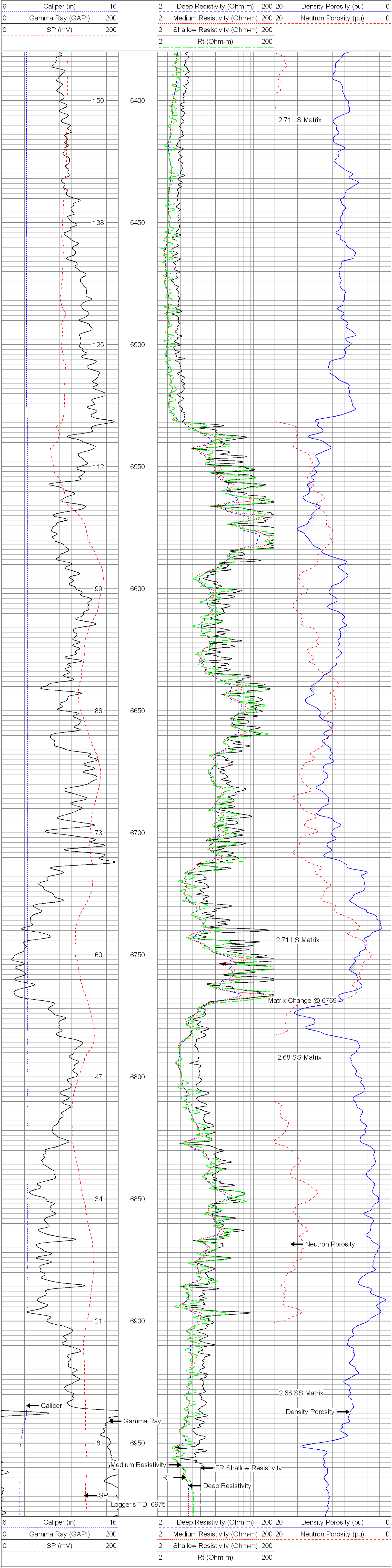
6	Density Caliper (in)	16	2	Deep Resistivity (Ohm-m)	200	20	Density Porosity (pu)	0
30	Gamma Ray (GAPI)	130	2	Medium Resistivity (Ohm-m)	200	20	Neutron Porosity (pu)	0
100	SP (mV)	200	2	Shallow Resistivity (Ohm-m)	200			
	ABHV (ft3)		2	Rt (Ohm-m)	200			

Database File:	11550.db
Dataset Pathname:	pass3.5
Presentation Format:	pdc1
Dataset Creation:	Tue Apr 12 11:54:27 2011
Charted by:	Depth in Feet scaled 1:240

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
100	SP (mV)	200	2	Shallow Resistivity (Ohm-m)	200			
	ABHV (ft3)		2	Rt (Ohm-m)	200			



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
100	SP (mV)	200	2	Shallow Resistivity (Ohm-m)	200			
	ABHV (ft3)		2	Rt (Ohm-m)	200			

Database File: 11550.db
Dataset Pathname: pass3.5
Presentation Format: pdc
Dataset Creation: Tue Apr 12 11:54:27 2011
Charted by: Depth in Feet scaled 1:240