PHOENIX SURVEYS, INC.

HIGH RESOLUTION INDUCTION

Company / Well / Field / County / State/Prv

Company	Noble Energy Inc.
Well	Stewart Federal G 07-32 D
Field	Wattenberg
County	Weld
State/Province	Colorado

Location SHL: 1680' FSL & 892' FWL NWSW
BHL: 2584' FSL & 83' FWL NWSW
Sec. 7, Twp. 4N, Rge. 65W

Other Services: Density, Neutron, Microlog

Permanent Datum	GL	Elevation 4697
Log Measured From	KB	
Drilling Measured From	KB	

Elevation: K.B. 4711, D.F. 4710, G.L. 4697

Date	January 17, 2012		
Run Number	1		
Depth Driller	7524		
Depth Logger	7524		
Bottom Logged Interval	7524		
Top Log Interval	Casing		
Casing Driller	662		
Casing Logger	662		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	10.5 / 40		
pH / Fluid Loss	8.5 / 7.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.45 @ 62 F		
Rmf @ Meas. Temp	1.96 @ 62 F		
Rmc @ Meas. Temp	2.94 @ 62 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	.93 @ 210 F		
Time Circulation Stopped	0500		
Time Logger on Bottom	1235		
Maximum Recorded Temperature	210 F		
Equipment Number	50		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Paul Dein		

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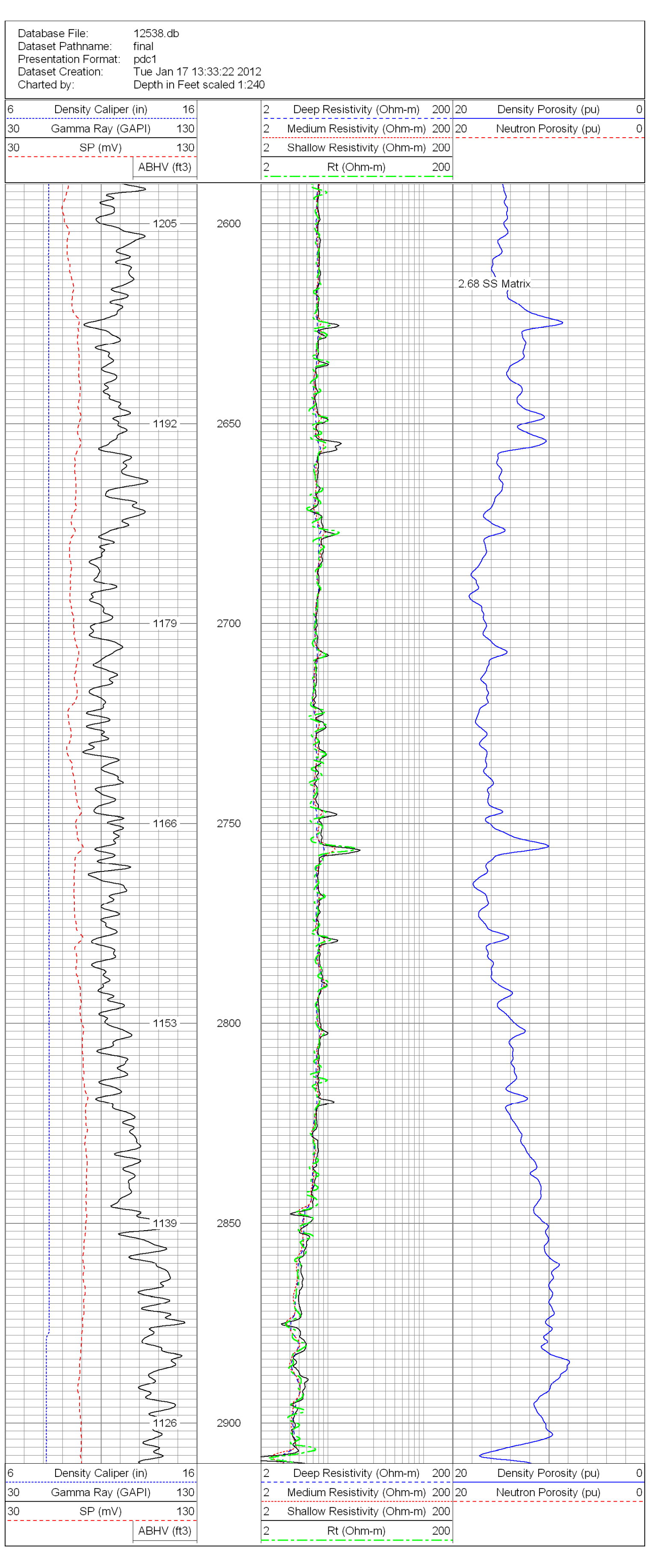
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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
Saxson Drilling Rig 143
Thank you for using Phoenix Surveys!!
API #: 05-123-34878-00

Database File: 12538.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Tue Jan 17 13:33:22 2012
Charted by: Depth in Feet scaled 1:240

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



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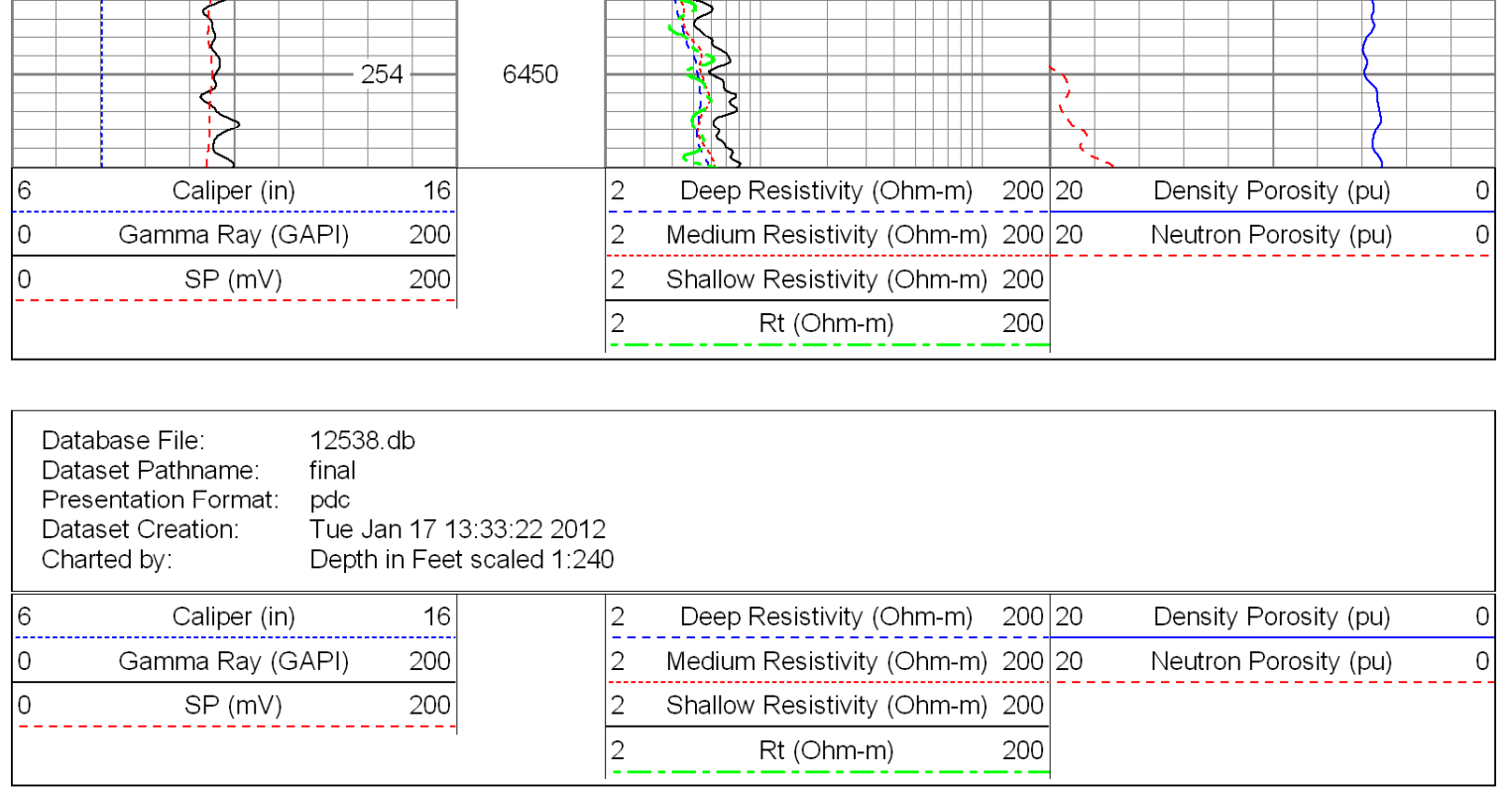

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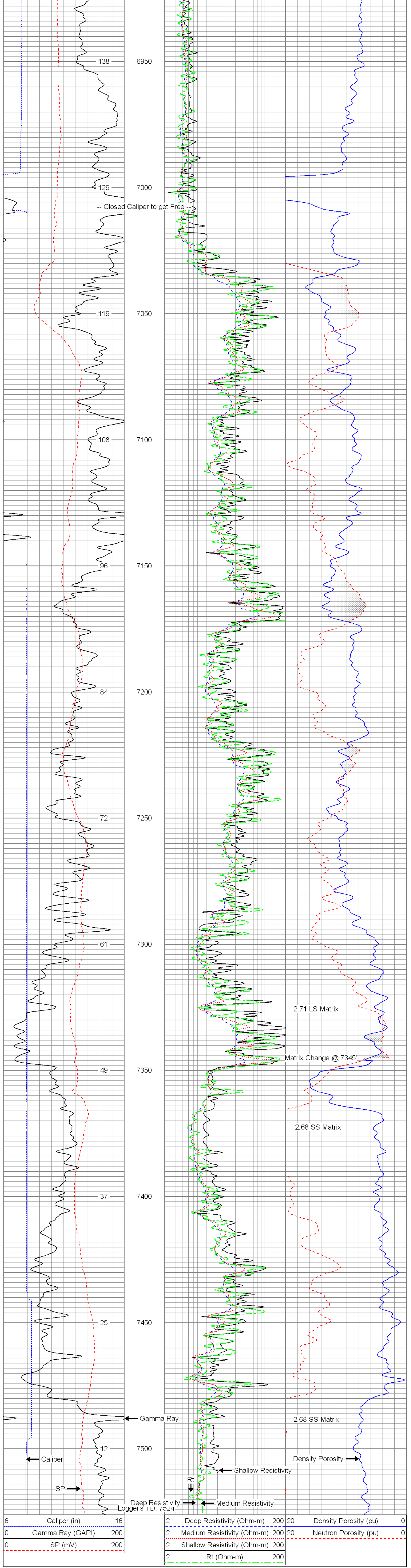

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