PSI
PHOENIX SURVEYS, INC.

DUAL INDUCTION
GUARD LOG
GAMMA RAY

Company	Noble Energy Production Inc.
Well	Cervi-USX CC21-10
Field	Wattenberg
County	Weld
State/Province	Colorado
Location	1980' FSL & 1980' FEL NW SE Sec. 21, Twp. 4N, Rge. 63W
Other Services	Density Neutron Microlog

Company
Well
Field
County
State/Prv

Permanent Datum	GL	Elevation 4809	Elevation
Log Measured From	KB		K.B. 4825
Drilling Measured From	KB		D.F. 4824
			G.L. 4809

Date	October 28, 2007		
Run Number	1		
Depth Driller	7627		
Depth Logger	7659		
Bottom Logged Interval	7659		
Top Log Interval	Casing		
Casing Driller	605		
Casing Logger	605		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.5 / 65		
pH / Fluid Loss	9.0 / 9.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.54 @ 69° F		
Rmf @ Meas. Temp	2.83 @ 69° F		
Rmc @ Meas. Temp	4.25 @ 69° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.09 @ 215° F		
Time Circulation Stopped	0015		
Time Logger on Bottom	0815		
Maximum Recorded Temperature	215° F		
Equipment Number	4420		
Location	Brighton, CO		
Recorded By	Eric Christensen	Shaun Schuman	
Witnessed By	John Drahota	Tekabe Gedamu	

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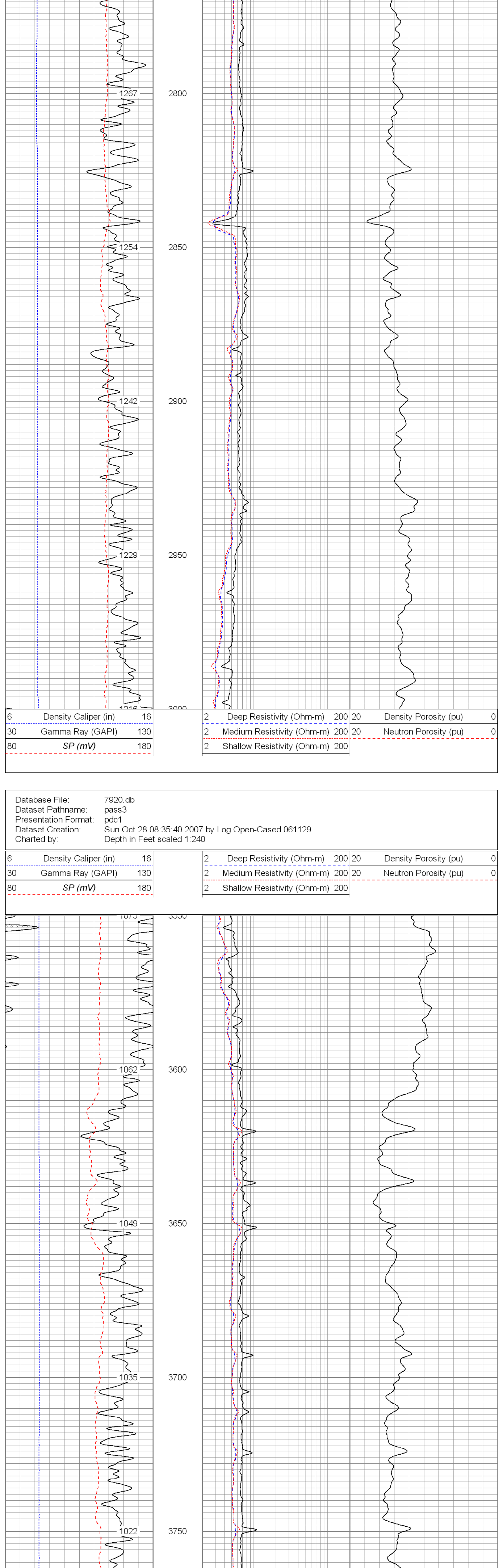
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Rig 7
Thank you for using Phoenix Surveys!!
API #: 05-123-26040-00

Database File: 7920.db
Dataset Pathname: pass3
Presentation Format: pdc1
Dataset Creation: Sun Oct 28 08:35:40 2007 by Log Open-Cased 061129
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
80	*SP (mV)*	180	2	Shallow Resistivity (Ohm-m)	200			



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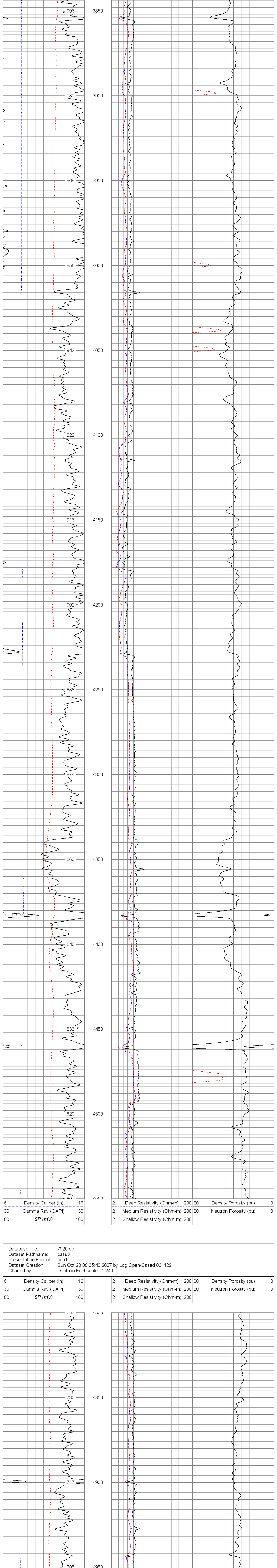

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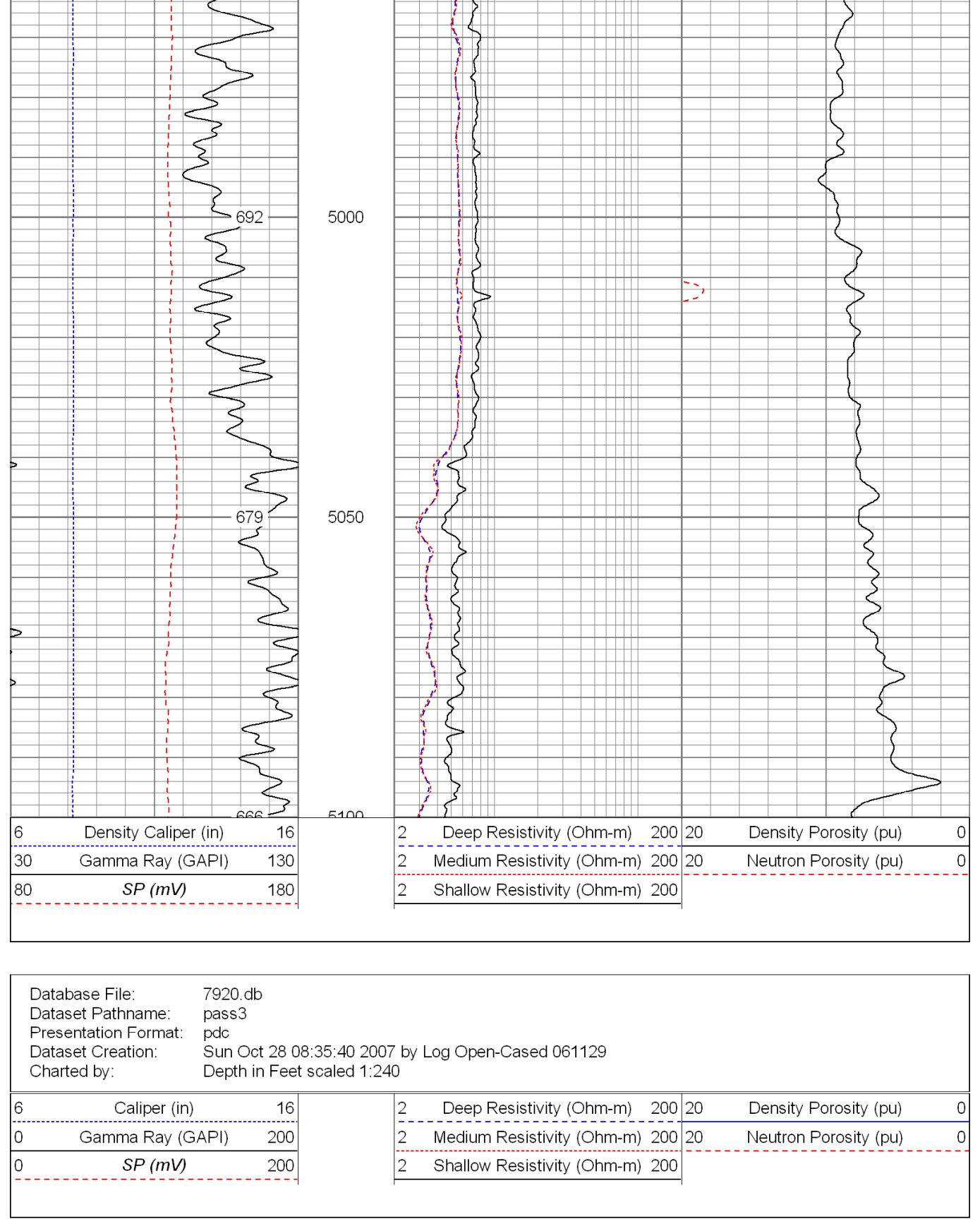

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