PHOENIX SURVEYS, INC.

DUAL INDUCTION
GUARD LOG
GAMMA RAY

Company
Well
Field
County
State/Prv

Company	Noble Energy Inc.
Well	Pioneer Y08-02
Field	Wattenberg
County	Weld
State/Province	Colorado
Location	760' FNL & 2110' FEL NWNE Sec. 8, Twp. 2N, Rge. 64W
Other Services	Density Neutron Microlog
Elevation	K.B. 4879 D.F. 4879 G.L. 4866

Permanent Datum	GL	Elevation 4866
Log Measured From	KB	
Drilling Measured From	KB	

Date	August 12, 2010
Run Number	1
Depth Driller	7755
Depth Logger	7755
Bottom Logged Interval	7755
Top Log Interval	Casing
Casing Driller	1060
Casing Logger	1060
Bit Size	7-7/8"
Type Fluid in Hole	Chem Gel
Density / Viscosity	9.2 / 47
pH / Fluid Loss	8.5 / 9.0
Source of Sample	Flowline
Rm @ Meas. Temp	2.30 @ 100 F
Rmf @ Meas. Temp	1.80 @ 100 F
Rmc @ Meas. Temp	3.50 @ 100 F
Source of Rmf / Rmc	Measure / Calc
Rm @ BHT	1.04 @ 222 F
Time Circulation Stopped	0930
Time Logger on Bottom	1445
Maximum Recorded Temperature	222 F
Equipment Number	50
Location	Brighton, CO
Recorded By	Shaun Schuman
Witnessed By	Mike Noland

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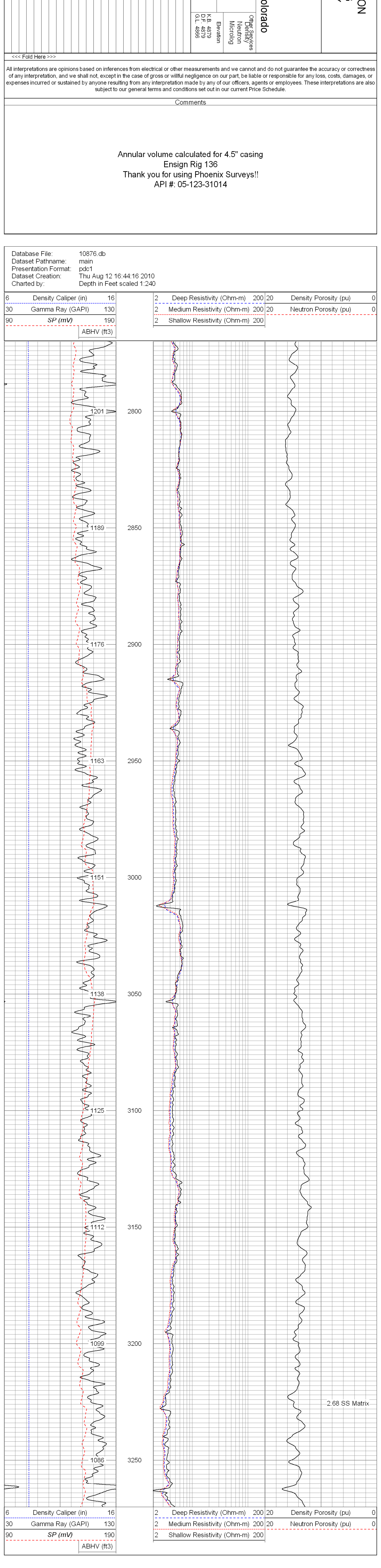
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 136
Thank you for using Phoenix Surveys!!
API #: 05-123-31014

Database File:	10876.db
Dataset Pathname:	main
Presentation Format:	pdc1
Dataset Creation:	Thu Aug 12 16:44:16 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



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