PHOENIX SURVEYS, INC.

DUAL INDUCTION
GUARD LOG
GAMMA RAY

Company	Orr Energy, LLC
Well	Lowe 31-85
Field	Wattenberg
County	Weld
State/Province	Colorado

Company
Well
Field
County
State/Prv

Location: 1110' FSL & 1424' FEL
C SE
Sec. 31, Twp. 6N, Rge. 66W

Other Services: Density, Neutron, Micrology

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

Elevation: K.B. 4719, D.F. 4718, G.L. 4710

Date	March 19, 2007		
Run Number	1		
Depth Driller	7762		
Depth Logger	7754		
Bottom Logged Interval	7754		
Top Log Interval	Casing		
Casing Driller	864		
Casing Logger	880		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.3 / 60		
pH / Fluid Loss	9.0 / 9.6		
Source of Sample	Mudpit		
Rm @ Meas. Temp	3.63 @ 71° F		
Rmf @ Meas. Temp	2.73 @ 71° F		
Rmc @ Meas. Temp	4.53 @ 71° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.25 @ 206° F		
Time Circulation Stopped	1000		
Time Logger on Bottom	2045		
Maximum Recorded Temperature	206° F		
Equipment Number	4041		
Location	Brighton, CO		
Recorded By	Maciej Staron		
Witnessed By	Mark Scanniello	Tim Jones	

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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 4-1/2" casing
Lags Drilling Rig 111
Thank you for using Phoenix Surveys!!
API #: 05-123-24890-00

Database File: 6987.db
Dataset Pathname: pass3.2
Presentation Format: pdc
Dataset Creation: Mon Mar 19 20:22:07 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

6 Caliper (in) 16	2 Deep Resistivity (Ohm-m) 200	20 Density Porosity (pu) 0
0 Gamma Ray (GAPI) 200	2 Medium Resistivity (Ohm-m) 200	20 CN Porosity (pu) 0
0 SP (mV) 200	2 Shallow Resistivity (Ohm-m) 200	