

PHOENIX SURVEYS, INC.

PH

SI

HIGH RESOLUTION INDUCTION  
COMPENSATED DENSITY  
COMPENSATED NEUTRON

Company  
Encana Oil & Gas (USA) Inc.

Well  
Buy Crandell 31-23

Field  
Wattenberg

County  
Broomfield

State/Province  
Colorado

Location  
SHL 1066 FNL & 1053 FEL NENE  
BHL 510 FNL & 1080 FEL NWN  
Sec. 23 Twp. 1N R9e 88W

Other Services  
None

Company  
Well  
County  
State/Private

Log Measured From  
K/B

Drilling Measured From  
K/B

Date  
January 26, 2012

Run Number  
8871

Depth Logger  
8871

Bottom Logger Interval  
8871

Top Log Interval  
Casing

Casing Depth  
1128

Casing Diameter  
7.750

Bit Size  
7.750

Type Fluid in Hole  
Chem Gel

Density /Viscosity  
9.91 /24

Source of Sample  
Flowline

Run @ Mass Temp  
3.45 @ 71 F

Run @ Mass Temp  
2.76 @ 71 F

Run @ Mass Temp  
4.14 @ 71 F

Run @ Mass Temp  
1.14 @ 71 F

Run @ RT Temp  
1102 @ 238 F

Time Circulator Stopped  
1200

Time Logger on Bottom  
2215

Maximum Recorded Temperature  
229 F

Location  
Burlington, CO

Recorded By  
Kelli Weaver

Witnessed By  
Chris Ewing

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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 Drilling Rig 135  
Thank you for using Phoenix Surveys!!  
API #: 05-014-20711-0000

Database File: 12578.db  
Dataset Pathname: final  
Presentation Format: encana  
Dataset Creation: Mon Jan 30 00:04:42 2012  
Charted by: Depth in Feet scaled 1:240

6 Caliper (in) 16  
0 Gamma Ray (GAPI) 300  
0 SP (mV) 200  
ABHV (ft3)

2 Deep Resistivity (Ohm-m) 200 40  
2 Medium Resistivity (Ohm-m) 200 40  
2 Shallow Resistivity (Ohm-m) 200  
2 Rt (Ohm-m) 200

Density Porosity (pu) 0  
Neutron Porosity (pu) 0

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