

PHOENIX SURVEYS, INC.

COMPENSATED DENSITY

DUAL INDUCTION

Company

Bonanza Creek Operating Co., LLC

Well

Antelope 23-18

Field

Wattenberg

County

Weld

State/Province

Colorado

Location

SHL 1435 FSL & 1442 FWL NESW
BHL 2117 FSL & 2083 FWL NESW
Sec - 18, TWP - 5N, R9e - 62W

Log Measured From

K/B

Permanent Datum

GL

Elevation

4599

Other Services

None

Date

September 28, 2010

Run Number

6757

Depth Logger

6757

Bottom Logged Interval

6757

Top Log Interval

Casing

Casing Diameter

4.5

Casing Weight

7.78

Time Fluid in Hole

Polymer Gel

Density / Velocity

30 / 75

Source of Sample

Flowline

Run @ Mass Temp

2.30 @ 105 F

Run @ Mass Temp

3.10 @ 105 F

Run @ RT / Run Rate

1.19 @ 203 F

Time Circulation Stopped

0830

Time Logger or Bottom

1630

Minimum Recorded Temperature

203 F

Location

Brigman, CO

Recorded By

Schuman

Witnessed By

Dodge

Drawn

Brigman

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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
Mid Continent Rig 1
Thank you for using Phoenix Surveys!!
API #: 05-123-31827

Database File: 10960.db
Dataset Pathname: main
Presentation Format: pdc1
Dataset Creation: Tue Sep 28 17:37:00 2010
Charted by: Depth in Feet scaled 1:240

6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
50 SP (mV) 150
ABHV (ft3)

2 Deep Resistivity (Ohm-m) 200 20
2 Medium Resistivity (Ohm-m) 200 20
2 Shallow Resistivity (Ohm-m) 200

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

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