

PHOENIX SURVEYS, INC.

PSI

COMPENSATED DENSITY
NEUTRON
CALPER

Company

Great Western Oil & Gas LLC

Well

HCV 24-14

Field

LaPoudre

County

Weld

State/Province

Colorado

Location

708 FSL & 6601 FWL
Sec 24 Twp -6N R9e -67W

Other Services

HI,
Res. Indication

Log Measured From

GL

Elevation

4723

Drilling Measured From

KB

Date

February 5, 2011

Log Number

7297

Depth Logger

7297

Bottom Logged Interval

7277

Top Log Interval

3380

Casing

4.5" 13.30 lb/ft

Bit Size

7-7/8"

Type Fluid in Hole

Chem Gel

Density / Viscosity

5.87 / 0

Source of Sample

Flowline

Run @ Mass Temp

3.58 @ 67° F

Run @ Mass Temp

3.58 @ 67° F

Run @ Mass Temp

1.38 @ 67° F

Run @ RT

1.10 @ 200° F

Time Circulation Stopped

1300

Time Logger on Bottom

209° F

Maximum Measured Temperature

209° F

Location

Baytown, CO

Recorded By

Matt Cull

Unvised By

Mark Scammell

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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 7
Thank you for using Phoenix Surveys.
API #: 05-123-31498-00

Database File: 11430.db
Dataset Pathname: final
Presentation Format: poro1
Dataset Creation: Sat Feb 05 20:58:52 2011
Charted by: Depth in Feet scaled 1:240

6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
TBHV (ft3) ABHV (ft3)

30 Density Porosity (pu) -10
30 Neutron Porosity (pu) -10
-0.5 Corr (g/cc) 0.5

2.68 SS Matrix

6 Density Caliper (in) 16
30 Gamma Ray (GAPI) 130
TBHV (ft3) ABHV (ft3)

Database File: 11430.db
Dataset Pathname: final
Presentation Format: poro
Dataset Creation: Sat Feb 05 20:58:52 2011
Charted by: Depth in Feet scaled 1:240

6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
TBHV (ft3) ABHV (ft3)

30 Density Porosity (pu) -10
30 Neutron Porosity (pu) -10
-0.5 Correction (g/cc) 0.5

2.71 LS Matrix

Matrix Change @ 7105'

2.68 SS Matrix

6 Caliper (in) 16
0 Gamma Ray (GAPI) 200
TBHV (ft3) ABHV (ft3)