PSI
Phoenix Surveys, Inc.

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company: Antelope Energy Company, LLC
Well: State 7-62-16
Field: Wildcat
County: Weld
State/Province: Colorado

Location: 660' FSL & 660' FEL
Sec. 16 Twp. 7N Rge. 61W
Elevation: 4613

Permanent Datum: Ground Level
Log Measured From: Kelly Bushing 18 Ft. Above Perm. Datum
Drilling Measured From: Kelly Bushing

	Elev.
K.B.	4631
D.F.	
G.L.	4613

Date: 01-03-11
Run Number: ONE
Depth Driller: 6561
Depth Logger: 6561
Bottom Logged Interval: 6561
Top Logged Interval: 150
Casing Driller: 7" @ 1,000
Casing Logger: 1000
Bit Size: 6 1/4"
Type Fluid in Hole: Fresh Water
Density / Viscosity: 8.4 / 28
pH / Fluid Loss: 10.0 / 6.0
Source of Sample: Flowline
Rm @ Meas. Temp.: 0.84 @ 70°
Rmf @ Meas. Temp.: 0.63 @ 70°
Rmc @ Meas. Temp.: 1.05 @ 70°
Source of Rmf / Rmc: Calculated
Rm @ BHT: 0.46 @ 140°
Time Since Circulation: 12 Hours
Max. Rec. Temp.: 140°
Equipment Number: 3011
Location: Greeley, CO
Recorded By: Mike Hall
Witnessed By: Jason Hone

	Run 1	Run 2	Run 3
Density Tool	DPC		
Neutron Tool	CNC		
Resistivity Tool	DIT		
Gamma Ray Tool	GR		
Other Services			

Tool Standoff (in): 0.5 | 0.5 | 0.5
Max Recorded Temp. (°F): 140 | | |
Equipment Number: 3011 | | |
Location: Greeley, CO | | |
Recorded By: Mike Hall | | |
Witnessed By: Jason Hone | | |

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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 7.0" casing
Excel Drilling Rig 3
Thank you for using Phoenix Surveys.
API # 05-123-32489-00

Database File: 11336.db
Dataset Pathname: final
Presentation Format: pdc1
Dataset Creation: Sat Jan 01 03:01:16 2011
Charted by: Depth in Feet scaled 1:240

Density Caliper (in) 16 | Deep Resistivity (Ohm-m) .2 2000 | Density Porosity (pu) 60
Gamma Ray (GAPI) 0 150 | Medium Resistivity (Ohm-m) .2 2000 | Neutron Porosity (pu) 0
SP (mV) 150 | Shallow Resistivity (Ohm-m) .2 2000
Rt (Ohm-m) .2 2000

ABHV (ft3)

2.68 SS Matrix

2.71 LS Matrix

Matrix Change @ 6554'

2.68 SS Matrix

Neutron Porosity

2.68 SS Matrix

Density Porosity

Shallow Resistivity

Rt

Caliper

GR

Medium Resistivity

Deep Resistivity

Logger's TD: 6561'

Caliper (in) 16 | Deep Resistivity (Ohm-m) .2 2000 | Density Porosity (pu) 60
Gamma Ray (GAPI) 0 200 | Medium Resistivity (Ohm-m) .2 2000 | Neutron Porosity (pu) 0
SP (mV) 200 | Shallow Resistivity (Ohm-m) .2 2000
Rt (Ohm-m) .2 2000