PSI
PRECISION WIRELINE

COMPENSATED DENSITY
DUAL LATEROLOG
GAMMA RAY

Company: Noble Energy Inc
Well: Woolley 23-8
Field: Wattenberg
County: Weld
State/Prov: Colorado
Country: USA
API#: 05-123-25272-00
Other Services: Array Induction
Location: Sec 8 T3N R67W
Permanent Datum: Ground Level
Elevation: 4,871 ft
Log Measured From: KB
Drilling Measured From: KB
Elev.: K.B. 4,886 ft
G.L. 4,871 ft
D.F.
Date: 27-Jul-2016
Run Number: One
Depth Driller: 7,800 ft
Depth Logger: 7,800 ft
Bottom Logged Interval: 7,800 ft
Top Logged Interval: 4,000 ft
Casing Driller: 9.625 in @ 1,000 ft
Casing Logger: 1,000 ft
Bit Size: 8.75 in
Type Fluid in Hole: Water Based Mud
Density / Viscosity: 9.2 lb/gal / 40 s/qt
pH / Fluid Loss: 10.5 / 6.4 cc
Source of Sample: Flowline
Rm @ Meas. Temp: 0.1 @ 70 °F
Rmf @ Meas. Temp: 0.08 @ 70 °F
Rmc @ Meas. Temp: 0.12 @ 70 °F
Source of Rmf / Rmc: Measured / Measured
Rm @ BHT: 0.05 @ 180 °F
Time Since Circulation: 12 hrs
Max Rec. Temp.: 180 °F
Equipment / Base: 10-Jul-2016 / Greeley
Recorded By: Jeff Hall
Witnessed By: Mr. Jeff Hall

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 interpretations, and we shall not, except in the case of gross or wilful 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 rate schedule.

Comments

Annular volume calculated for 4 1/2" casing
Cable Drilling Rig 22
Thanks for using Cisco Sunray!
API # 05-123-25272-00

Calculated Filter: 6096.96
Calculated Interval: 7800.00
Presentation Format: Compensated Density
Created: Creation Date: Sat May 27 17:37:34 2006 by Log Data Caesar 6.0.4120
Created By: Log Data Caesar 6.0.4120 Operator: Jeff Hall

Gamma Ray (GAPI) 150
SP (MV) 20

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

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

2.65 SG Matrix

Density / Neutron Porosity (pu) 0
SP (MV) 20

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

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

2.65 SG Matrix

Calculated Filter: 6096.96
Calculated Interval: 7800.00
Presentation Format: Compensated Density
Created: Creation Date: Sat May 27 17:34:57 2006
Created By: Depth in Feet scale:1:1.46

Caliper (in) 6 16
Gamma Ray (GAPI) 150
SP (MV) 20

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

Density Porosity (pu) 0
CN Porosity (pu)

2.71-2.65 Matrix

2.71-2.65 Matrix

Matrix Change

2.65 SG Matrix

2.65 SG Matrix

Matrix Change

2.65 SG Matrix

Caliper (in) 6 16
Gamma Ray (GAPI) 150
SP (MV) 20

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

Density Porosity (pu) 0
Neutron Porosity (pu)

Neutron Porosity

Density Porosity

2.65 SG Matrix