Company: NOBLE ENERGY INC
Well: BOHLENDER 31-C
Field: WATTENBERG
County: WELD
State: COLORADO

Casedhole Solutions

GAMMA RAY/ CCL
CEMENT BOND VDL

Company: NOBLE ENERGY INC.
Well: BOHLENDER 31-C
Field: WATTENBERG
County: WELD
State: COLORADO
Other Services: Dual Induction

Elevations: KB 4,974 ft, DF 4,973 ft, GL 4,958 ft
Permanent Datum: GROUND LEVEL
Log Measured From: KELLY BUSHING, 16 ft above Permanent Datum
Drilling Measured From: KELLY BUSHING

Date: 12-Feb-15
Run Number: ONE
Depth Driller: 7,600 ft
Depth Logger: 7,600 ft
Bottom Logged Interval: 7,600 ft
Top Logged Interval: 6,800 ft
Casing Driller: 9.625 in @ 1,000 ft
Casing Logger: 1,000 ft
Bit Size: 8.75 in
Type Fluid in Hole: WBM
Density / Viscosity: 9.2 lb/gal / 40 s/qt
PH / Fluid Loss: 9.5 / 6.4 cc
Source of Sample: FLOWLINE
Rm @ Measured Temp: 0.18 @ 70 °F
Rmf @ Measured Temp: 0.14 @ 70 °F
Rmc @ Measured Temp: 0.24 @ 70 °F
Source of Rmf / Rmc: MEASURED / CALCULATED
Rm @ BHT: 0.09 @ 180 °F
Time Since Circulation: 4 hrs
Time on Bottom: 12-Feb-15 @ 1:30
Max Recorded Temp: 180 °F
Equipment / Base: 13466 / DENVER
Recorded By: J.R.V.
Witnessed By: BRETT

Run No. | Bit Size (in) | Casing Driller (@ ft) | Casing Logger (ft) | Bottom Logged Interval (ft) | Top Logged Interval (ft) | Type Fluid in Hole | Density / Viscosity (lb/gal / s/qt) | PH / Fluid Loss (cc) | Source of Sample | Rm @ Measured Temp | Rmf @ Measured Temp | Rmc @ Measured Temp | Source of Rmf / Rmc | Rm @ BHT | Time Since Circulation | Time on Bottom | Max Recorded Temp (°F) | Equipment / Base | Recorded By | Witnessed By

ONE | 8.75 | 9.625 @ 1,000 | 1,000 | 7,600 | 6,800 | WBM | 9.2 / 40 | 9.5 / 6.4 | FLOWLINE | 0.18 @ 70 °F | 0.14 @ 70 °F | 0.24 @ 70 °F | MEASURED / CALCULATED | 0.09 @ 180 °F | 4 hrs | 12-Feb-15 @ 1:30 | 180 | 13466 / DENVER | J.R.V. | BRETT

Tied to: Not Tied

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 to the cost 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

THANK YOU FOR CHOOSING CWST!
LOG CORRELATED TO CHS CBL LOG DATED 12-5-15

Database File: cbl noble bohlender 31c2 fourth log db
Dataset Pathname: data1
Presentation Format: noble wc
Created: Sunday, March 15 2015 by Log SCH 12V00
Charted by: Depth in Feet scaled 1:240

50 CCL 0.5
0 Gamma Ray (GAPI) 200
140 TT3 (usec) 240

0 Amplified Amplitude (mV) 10,200
0 Amplitude (mV) 100
Variable Density 1200

0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
1100
1150
1200
1250
1300
1350
1400

TOOL PICK UP

LOGGER'S TD@7,592

50 CCL 0.5
0 Gamma Ray (GAPI) 200
140 TT3 (usec) 240

0 Amplified Amplitude (mV) 10,200
0 Amplitude (mV) 100
Variable Density 1200