NABORS
A PRODUCTION SERVICES COMPANY

GAMMA RAY C.C.L.
CEMENT BOND V.D.L.

Company: PDC Energy
Well: Becker S-15
Field: Wattenberg
County: Weld
State: CO

Location: SEC. 5 TWP. 3N RGE. 66W
API #: 05-123-39492
Other Services:

Permanent Datum: Ground Level
Elevation: 4,914 ft
Log Measured From: KB 25 ft above Perm. Datum
Drilling Measured From: KB

Date: 10-16-2015
Run Number: One
Depth Driller: 8,400 ft
Depth Logger: 8,400 ft
Bottom Logged Interval: 8,400 ft
Top Logged Interval: 3,000 ft
Casing Driller: 9.625 in @ 1,000 ft
Casing Logger: 1,000 ft
Bit Size: 8.75 in
Type Fluid in Hole: Water
Density: 8.4 lb/gal
Viscosity: 28 s
Fluid Loss: 0 ml
Source of Sample: Flowline
Rm @ Meas. Temp: 0.000 @ 0 °F
Rmf @ Meas. Temp: 0.000 @ 0 °F
Rmc @ Meas. Temp: 0.000 @ 0 °F
Source of Rmf & Rmc: Measured
Rm @ BHT: 0.000 @ 0 °F
Time Since Circulation: 1 hr
Time on Bottom: 10-16-2015 08:00
Max Recorded Temp: 0 °F
Equipment / Base: 1705 / Greeley
Recorded By: Ryan Kuehn
Witnessed By: Bob Fox

Run No. | Bottom Log Interval | Top Log Interval | Casing Driller | Casing Logger | Bit Size | Type Fluid in Hole | Density | Viscosity | Fluid Loss | Source of Sample | Rm @ Meas. Temp | Rmf @ Meas. Temp | Rmc @ Meas. Temp | Source of Rmf & Rmc | Rm @ BHT | Time Since Circulation | Time on Bottom | Max Recorded Temp | Equipment / Base | Recorded By | Witnessed By
One | 8,400 ft | 3,000 ft | 9.625 in @ 1,000 ft | 1,000 ft | 8.75 in | Water | 8.4 lb/gal | 28 s | 0 ml | Flowline | 0.000 @ 0 °F | 0.000 @ 0 °F | 0.000 @ 0 °F | Measured | 0.000 @ 0 °F | 1 hr | 10-16-2015 08:00 | 0 °F | 1705 / Greeley | Ryan Kuehn | Bob Fox

LAT: [illegible]
LONG: [illegible]
Survey: [illegible]

API # 05-123-39492

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 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

Database File: pdcb0115.db
Dataset Pathname: pass1
Presentation Format: noise.wc
Dataset Creation: Wed Jul 06 16:12:2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

10	CCL	2	0 Amplified Amplitude (mV) 10,200
0	Gamma Ray (GAPI)	200	0 Amplitude (mV) 100
400	TT3 (usec)	200	

Variable Density 1200

3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
4250
4300
4350
4400

10 CCL 2
0 Gamma Ray (GAPI) 200
400 TT3 (usec) 200
0 Amplified Amplitude (mV) 10,200
0 Amplitude (mV) 100
Variable Density 1200