NABORS COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL CEMENT BOND TOOL

| | |
|---|---|
| Company | NOBLE ENERGY INC. |
| Well | WELLS RANCH UX1 AA2541 |
| Field | WATTENBERG |
| County | WELD |
| State | COLORADO |

| | |
|---|---|
| Company | NOBLE ENERGY INC. |
| Well | WELLS RANCH UX1 AA2541 |
| Field | WATTENBERG |
| County | WELD |
| State | COLORADO |
| API # | 05123404 |
| Location | 4578 FNL 2312 FEL Sec 26 Twp 5N Rge 65W |
| Permanent Datum | Ground Level |
| Elevation | 4578 |
| Log Measured From | Kelly Bushing |
| Drilling Measured From | Kelly Bushing |
| Elevation | 4578 |
| Elevation | 4578 |
| Elevation | 4578 |

| Run No. | Date | Depth Driller | Depth Logger | Bottom Logged Interval | Top Logged Interval | Casing Driller Size @ Depth | Casing Logger Size @ Depth | Bit Size | Type Fluid in Hole | Density | Viscosity | Fluid Loss | Source of Sample | Rm @ Measured Temp | Rmf @ Measured Temp | Rmc @ Measured Temp | Source of Rmf / Rmc | Rm @ BHT | Time Circulation Stopped | Time Logger on Bottom | Max Recorded Temperature | Equipment Number | Location | Recorded By | Witnessed By |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 09-Feb-15 | 7153 | 7152 | 7152 | 0 | 4.5 @ 7153 | | 4.5 | WBM | 9.2 | 40 | 6.8 | MUD | 0.16 @ 70 | 0.13 @ 70 | 0.21 @ 70 | MEAS | 0.09 @ 160 | 09-Feb-15 | 09-Feb-15 | 160 | 10 | GREELEY | J.MCCLAIN | |

Field Print Date: 2015

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**

**THANK YOU FOR CHOOSING NCPS!!!**
**LOG NOT CORRELATED**
**WCR 67 & WCR 68, E-2, 51.7, E2-2, N-A, NE INTO**

Database File: cbl noble wells ranch ux-ae25-01.db
Dataset Pathname: pass4
Presentation Format: noble an
Dataset Creation: Wed Feb 04 09:14:30 2015 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

| CCL | | Amplified Amplitude (mV) | 30 | Variable Density |
|---|---|---|---|---|
| 0 | -0.5 | 0 | 300 | 1500 |
| Gamma Ray (GAPI) | 150 | Amplitude (mV) | 100 | |
| 400 | TT3 (usec) 0 | | | |

FLUID LEVEL



| CCL | | Amplified Amplitude (mV) | 30 | Variable Density |
|---|---|---|---|---|
| 0 | -0.5 | 0 | 300 | 1500 |
| Gamma Ray (GAPI) | 150 | Amplitude (mV) | 100 | |
| 400 | TT3 (usec) 0 | | | |



Calibration Report

Database File: cbl noble wells ranch ux-ae25-01.db
Dataset Pathname: pass4
Dataset Creation: Wed Feb 04 09:14:30 2015 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe2TSdg / 110785

Fri Nov 06 09:39:30 2015

| | Counts/Sec | Gain | Offset | Jig | Units |
|---|---|---|---|---|---|
| SHOP CALIBRATION | | | | | |
| Background | 0.0 | | | | cps |
| Calibrator | 1.0 | | | | cps |
| | | 0.4400 | | | GAPI/cps |
| PRIMARY VERIFICATION | | | | | |
| Background | 0.0 | | | | cps |
| Calibrator | 0.0 | | | | cps |
| Difference | | | 0.0 | | GAPI |
| BEFORE SURVEY VERIFICATION | | | | | |
| Background | 0.0 | | | | cps |
| Calibrator | 0.0 | | | | cps |
| Difference | | | 0.0 | | GAPI |
| AFTER SURVEY VERIFICATION | | | | | |
| Background | 0.0 | | | | cps |
| Calibrator | 0.0 | | | | cps |
| Difference | | | 0.0 | | GAPI |

Cement Bond Log Calibration Report

| | | |
|---|---|---|
| Serial Number: | 110802 | |
| Tool Model: | Probe2TSOpMel | |
| Performed: | Mon Feb 02 12:59:27 2015 | |
| Depth: | 7153.542 | ft |
| Casing Diameter: | 4.5 | in |
| | ? Spacing | ? Spacing |
| Signal Zero: | 0.7 | 0 mV |
| Calibrated Amplitude: | 61.1061 | 61.1061 mV |
| Reading at Signal Zero: | -0.00527344 | -0.00556641 V |
| Reading in Free Pipe: | 2.49597 | 2.35129 V |
| Gain: | 32.1824 | 34.451 |
| Offset: | 0.969712 | 0.104768 |