**HALLIBURTON**

# Cement Bond Log

Company Mineral Resources
Well Sleepy Inn E5
Field Wattenberg
County Weld State Colorado

Company **Mineral Resources**
Well **Sleepy Inn E5**
Field **Wattenberg**
County **Weld** State **Colorado**

API No.: 05-123-24201-00 Serv #:
Location: SHL:275' FNL & 1251' FEL NE NE

BHL: 1951' FNL & 1998' FWL

Other Services
Perforate

Sec: 20 Twp: 5N Rge: 65W

| | | | | |
|---|---|---|---|---|
| Permanent Datum | GL | Elevation 4675 | Elevation | |
| Log Measured From | KB , Ft. above perm. datum | | K.B. | 4691' |
| Drilling Measured From | KB | | D.F. | 4690' |
| | | | G.L. | 4675' |

| | | | |
|---|---|---|---|
| Date @ Time Logged | 21-May-2007 | Type Fluid in Hole | Water |
| Run No. | 1 | Density of Fluid | |
| Depth - Driller | 7840' | Fluid Level | Surface |
| Depth - Logger | 7826' | Cement Top Est. Logged | |
| Bottom - Logged Interval | 7808' | Equipment / Location | / |
| Top - Log Interval | 3000' | Recorded by | Brian Bentley |
| Max. Recorded Temp. | Not recorded | Witnessed by | Ed Martin |

| CEMENTING DATA | Surface String | Protection String | Production String | Liner |
|---|---|---|---|---|
| Primary/Squeeze | | | | |
| Date / Time Cemented | | | | |
| Expected Compressive Strength | psi@ hrs | psi@ hrs | psi@ hrs | psi@ hrs |
| Cement Volume | | | | |
| Cement Type / Weight | / | / | / | / |
| Formulation | | | | |
| Mud Type / Mud Wgt. | / | / | / | / |

| | Borehole Record | | | Casing & Tubing Record | | | |
|---|---|---|---|---|---|---|---|
| Run Number | Bit | From | To | Size | Weight | From | To |
| 1 | 8.75" | 7320 | 479 | 4.5" | 13.5 | 7320 | Surface |
| | | | | | | | |
| | | | | | | | |

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HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHCIH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

## Comments

Top of Cement found at 3016'
CBL logged with 1000 psi pressure applied to casing.
Log Correlated to PSI log dated 4/11/2007.
Log was tied in at bottom, but drifted 3-4 feet off by the end of the logging interval at 3000 ft.

Thank you for using Halliburton.

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## Main Pass

5"=100'

Database File: mr_sleepy_inn_5.db
Dataset Pathname: pass4
Presentation Format: probebbp
Dataset Creation: Mon May 21 16:06:25 2007 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

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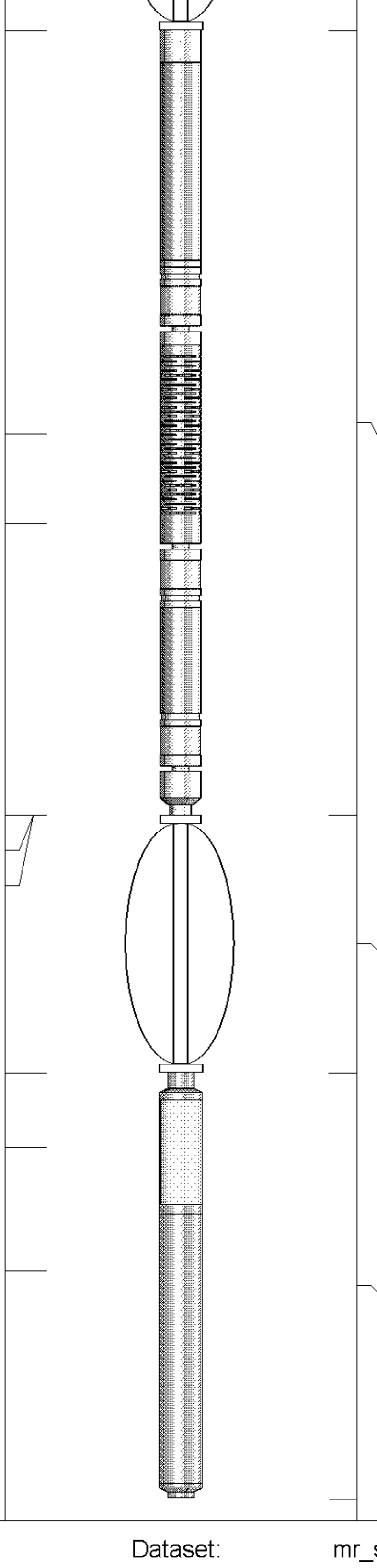
## Main Pass

5"=100'

| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| CENT | 19.25 |  | | | | |
| | | | Probe_275<br>Probe 2 3/4 Centralizer | 2.88 | 2.75 | 20.00 |
| CBL_PRB275D | 16.38 | | | | | |
| WVF3FT | 11.88 | | CBL_PRB275D-PRB275_Dig (040201)<br>Probe 2 3/4" Digital 3' & 5' Bond - Move voltage to +/- 150 for cal mode | 8.75 | 2.75 | 92.00 |
| WVF5FT | 10.88 | | | | | |
| ProbeHV | 7.63 | | | | | |
| IntTemp | 7.63 | | | | | |
| CENT | 7.63 | | | | | |
| | | | Probe_275<br>Probe 2 3/4 Centralizer | 2.88 | 2.75 | 20.00 |
| GR_PRB275 | 4.75 | | | | | |
| CCL | 3.92 | | | | | |
| GR | 2.54 | | GR_PRB275-probe275dig (pr050806)<br>Probe Digital Gamma CCL | 4.75 | 2.75 | 57.00 |

Dataset: mr_sleepy_inn_5.db: field/well/run1/pass4
Total Length: 19.25 ft
Total Weight: 189.00 lb
O.D. 2.75 in