

|   |               |  |      |  |  |
|---|---------------|--|------|--|--|
| <b>PHOENIX SURVEYS, INC.</b>  |               |  |      |  |  |
|   |               | Company<br>Well<br>Field<br>County<br>State/Fr |      | Company    Noble Energy Inc.<br>Well         IGO Farms J28-20D<br>Field        Wattenberg<br>County      Weld<br>State/Province Colorado |  |
| Location:<br>(EST.) BHL: 2592 FNL & 1338 FWL SEWM<br>Sec. 28, Twp. 5N, Rge. 65W |               | Log/Series<br>Depth<br>Density<br>Microlog     |      | Loeft/SHL: 1426 FNL & 1021 FWL SNMW<br>(EST.) BHL: 2592 FNL & 1338 FWL SEWM<br>Sec. 28, Twp. 5N, Rge. 65W                                |  |
| Forecasted Casing<br>Depth<br>Paving Measured from                              | GL            | Elevation                                      | 4875 | K.R. 1491<br>G.L. 1475   |  |
| Date  | Run Number    | January 2, 2011                                |      |  |  |
| Depth Driver  | 7639          |  |      |  |  |
| Bottom Logged   | 7645          |  |      |  |  |
| Bottom Unlogged Interval  | 7645          |  |      |  |  |
| Top Log Interval  | Casing Driver |  |      |  |  |
| Casing Driver   | 618           |  |      |  |  |
| Casing Logger   | 518           |  |      |  |  |
| Flow @ Mass. Temp   | 518           |  |      |  |  |
| Type Fluid in Hole  | Chem Gel      |  |      |  |  |
| Density / Viscosity   | 9.3 / 65      |  |      |  |  |
| pH / Fluid Loss   | 9.0 / 9.5     |  |      |  |  |
| Flow @ Mass. Temp   | 3.70 @ 50 F   |  |      |  |  |
| Run @ Mass. Temp  | 2.40 @ 50 F   |  |      |  |  |
| Run @ Mass. Temp  | 4.95 @ 50 F   |  |      |  |  |
| Source of fluid / frac  | Messure Calc  |  |      |  |  |
| Time logged on Top  | 11:00 AM      |  |      |  |  |
| Time circulation Stopped  | 0600          |  |      |  |  |
| Time logged on Bottom   | 1400          |  |      |  |  |
| Maximum Recorded Temperature  | 211F          |  |      |  |  |
| Estimated Run Time  | 21.0          |  |      |  |  |
| Recorded by   | Brydon CO     |  |      |  |  |
| Reviewed By   | Sullivan      |  |      |  |  |
| Released by   | Patterson     |  |      |  |  |

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**Comments:**

Annular volume calculated for 4.5" casing Ensign Rig 55

Thank you for Phoenix Surveys!!

API #: 05-123-30889

No repeat pass due to hole conditions.

Database File: 113338.db

|                      |                            |
|----------------------|----------------------------|
| Dataset Pathname:    | main                       |
| Presentation Format: | pdf1                       |
| Dataset Creation:    | Sun Jan 02 16:58:17 2011   |
| Charted by:          | Depth in Feet scaled 1:240 |

