



PHOENIX SURVEYS, INC.

DUAL INDUCTION  
GUARD LOG  
GAMMA RAY

|                              |                |  |                                     |
|------------------------------|----------------|--|-------------------------------------|
| Company                      |                | Merit Energy Company   |                                     |
| Well                         |                | BUB 5  |                                     |
| Field                        |                | Wattenberg   |                                     |
| County                       |                | Weld   | State                               |
|                              |                |  | Colorado                            |
| Location                     |                | 1210' FNL & 1320' FEL<br>NE NE<br>Sec - 1, Twp - 5N, Rge - 65W |                                     |
| Permanent Datum              |                | Elevation 4635   | Other Services<br>Dens<br>Neutron   |
| Measured From                |                |  |                                     |
| Drilling Measured From       |                | GL KB  | K.B. 4649<br>D.F. 4648<br>G.L. 4635 |
| Date                         | April 16, 2005 |  |                                     |
| Run Number                   | 1              |  |                                     |
| Depth Driller                | 7122           |  |                                     |
| Depth Logger                 | 7123           |  |                                     |
| Bottom Logged Interval       | 7123           |  |                                     |
| Top Log Interval             | Casing         |  |                                     |
| Casing Driller               | 370            |  |                                     |
| Casing Logger                | 370            |  |                                     |
| Bit Size                     | 7-7/8"         |  |                                     |
| Type Fluid in Hole           | Chem-Gel       |  |                                     |
| Density / Viscosity          | 9.4 / 50       |  |                                     |
| pH / Fluid Loss              | 7.8 / 8.0      |  |                                     |
| Source of Sample             | Flowline       |  |                                     |
| Rm @ Meas. Temp              | 3.06 @ 74° F   |  |                                     |
| Rmtf @ Meas. Temp            | 2.19 @ 74° F   |  |                                     |
| Rmc @ Meas. Temp             | 3.86 @ 74° F   |  |                                     |
| Source of Rmtf / Rmc         | Meas / Calc    |  |                                     |
| Rm @ BHT                     | 1.12 @ 202° F  |  |                                     |
| Time Circulation Stopped     | 0100           |  |                                     |
| Time Logger on Bottom        | 1100           |  |                                     |
| Maximum Recorded Temperature | 202° F         |  |                                     |
| Equipment Number             | 4041           |  |                                     |
| Location                     | Brighton, CO   |  |                                     |
| Recorded By                  | Shawn Schuman  |  |                                     |
| Witnessed By                 | Dan Green      |  |                                     |

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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

Annular volume is calculated for 4.5" casing.  
Patterson-UTI Drilling Rig 6  
Thank you for using Phoenix Surveys.  
API 05-123-22828-00

Database File: 5137.db  
Dataset Pathname: mainden  
Presentation Format: PDC  
Dataset Creation: Sat Apr 16 10:03:13 2005  
Charted by: Depth in Feet scaled 1:240

|   |                      |     |   |                             |     |    |                       |   |
|---|----------------------|-----|---|-----------------------------|-----|----|-----------------------|---|
| 6 | Density Caliper (in) | 16  | 2 | Deep Resistivity (Ohm-m)    | 200 | 20 | Density Porosity (pu) | 0 |
| 0 | Gamma Ray (GAPI)     | 200 | 2 | Medium Resistivity (Ohm-m)  | 200 | 20 | Neutron Porosity (pu) | 0 |
| 0 | SP (mV)              | 200 | 2 | Shallow Resistivity (Ohm-m) | 200 |    |                       |   |

