



SUPERIOR
Hays,
Kansas

SONIC
LOG

| | | | |
|------------------------------|---------------|---|-----------|
| Company | | MULL DRILLING COMPANY, INC. | |
| Well | | HOFFMAN-BUSBY #1-24 | |
| Field | | | |
| County | | CHEYENNE | State |
| State | | COLORADO | |
| Location: | | API # : 05-061-07720-00-00 1500' FNL & 660' FEL SE/4 - NE/4 | |
| Permanent Datum | | GROUND LEVEL | Elevation |
| Log Measured From | | KELLY BUSHING 11' A.G.L. | 4296 |
| Drilling Measured From | | KELLY BUSHING | |
| SEC 24 TWP 14S RGE 45W | | Other Services CDL/CNL/PE DIL/MEL | |
| Elevation | | K.B. 4307 D.F. 4305 G.L. 4296 | |
| Date | 9/21/12 | | |
| Run Number | TWO | | |
| Depth Driller | 5600 | | |
| Depth Logger | 5598 | | |
| Bottom Logged Interval | 5588 | | |
| Top Log Interval | 450 | | |
| Casing Driller | 13 3/8' @ 474 | | |
| Casing Logger | 476 | | |
| Bit Size | 7 7/8 | | |
| Type Fluid in Hole | CHEMICAL MUD | CHLORIDES 2,700 PPM | |
| Density / Viscosity | 9.3/57 | | |
| pH / Fluid Loss | 10.0/6.4 | | |
| Source of Sample | FLOWLINE | | |
| Rin @ Meas. Temp | 1.00 @ 106F | | |
| Rmf @ Meas. Temp | 0.75 @ 106F | | |
| Rmc @ Meas. Temp | 1.20 @ 106F | | |
| Source of Rmf / Rmc | MEASURED | | |
| Rin @ BHT | 0.82 @ 130F | | |
| Time Circulation Stopped | 2 HOURS | | |
| Time Logger on Bottom | | | |
| Maximum Recorded Temperature | 130F | | |
| Equipment Number | 680 | | |
| Location | HAYS, KS. | | |
| Recorded By | JEFF GRONEMEG | | |
| Witnessed By | PHIL ASKEY | | |

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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

THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
CHEYENNE WELLS, CO - 1 1/2 MILES WEST TO CR 42 - 1/2 MILE NORTH - WEST INTO

| | | | | | | |
|-------------|------------------|-----------------------------|------------|-----|----------------------|-----|
| Charted by: | | Depth in Feet scaled 1:2.15 | | | | |
| 0 | GAMMA RAY (GAPI) | 150 | ABHV | 140 | DELTA TIME (usec/ft) | 40 |
| 6 | CALIPER (in) | 16 | 10 (ft3) 0 | 30 | SONIC POROSITY (pu) | -10 |
| | | | TBHV | 0 | ITT (msec) | 20 |
| | | | 0 (ft3) 10 | | | |



