

Mud-Co / Service Mud Inc.

Operator **FG Holl** County **Barton** State **Kansas** Pump **6** X **14** X **60** SPM Casing Program **8 5/8" @ 1015** ft.
 Well **Binford Campbell #1-31** Location _____ GPM **7.75** BPM _____ " @ _____ ft.
 Contractor **Duke #8** Sec **31** TWP **20S** RNG **15W** D.P. **4.5** in. **191** FT/MIN R.A. _____ " @ _____ ft.
 Stockpoint **Pratt, Ks.** Date **4/26/2013** Engineer **Rick Hughes** Collar **6.25** in. **495** ft. **348** FT/MIN R.A. Total Depth **3950** ft.

| DATE | DEPTH feet | WEIGHT lb/gal | VISCOSITY | | | GELS 10 sec / 10 min. | pH Strip _ Meter _ | FILTRATION/FILTRATION ANALYSIS | | | | | SAND % | RETORT | | | L.C.M. | Pump Press. PSI | CUMULATIVE COST | REMARKS AND TREATMENT | |
|------|---------------|------------------|-------------------|--------------|----|-----------------------------|--------------------------|--------------------------------|---------------|---------------|-----------|-----------|-----------|-------------|----------|------------|--------|-----------------------|--------------------|--|--|
| | | | Sec API @ ___F | PV @ ___F | Yp | | | ml API | Cake 32nds | Pres. #BBL | Cl ppm | Ca ppm | | Solids % | Oil % | Water % | | | | | |
| 4/26 | 0 | | | | | | | | | | | | | | | | | | | RURT | |
| 4/27 | 1015 | | | | | | | | | | | | | | | | | | | Cement SP | |
| 4/28 | 1436 | 8.8 | 30 | 4 | 3 | 1/2 | 11.0 | N/C | - | | 2,000 | N/C | | 3.5 | | 96.5 | | | | Drlg. Displace w/starch @ 1706 | |
| 4/29 | 2183 | 9.5 | 46 | 8 | 22 | 23/38 | 7.0 | 14.6 | 4 | | 66m | Hvy | | 4.6 | | 95.4 | | | | Drlg. Displaced w/Chem @ 2677 | |
| 4/30 | 2747 | 8.7 | 56 | 15 | 17 | 17/42 | 11.5 | 6.8 | 1 | | 2,700 | 20 | | 2.3 | | 97.7 | | | | Drlg. | |
| 5/1 | 3346 | 9.3 | 54 | 20 | 13 | 15/43 | 11.0 | 6.8 | 1 | | 4,800 | 20 | | 6.8 | | 93.2 | | | | Drlg. | |
| 5/2 | 3715 | 9.4 | 52 | 15 | 17 | 17/42 | 10.5 | 7.2 | 1 | | 4,800 | 20 | | 7.5 | | 92.5 | | | | CFS | |
| 5/3 | 3775 | 9.3 | 63 | 18 | 13 | 13/34 | 9.5 | 8.0 | 1 | | 5,500 | 80 | | 6.8 | | 93.2 | | | | DST #1 @ 3750 | |
| 5/4 | 3790 | 9.2 | 50 | 13 | 11 | 31/48 | 11.5 | 8.4 | 1 | | 5,800 | 20 | | 6.1 | | 93.9 | | | | DST #2 @ 3775 | |
| 5/5 | 3820 | 9.1 | 48 | 11 | 10 | 25/46 | 10.5 | 9.2 | 1 | | 6,200 | 60 | | 5.4 | | 94.6 | | | | Brk Circ @ Collars DST #3 @ 3790 | |
| 5/6 | 3828 | 8.9 | 57 | 15 | 15 | 24/68 | 10.5 | 9.2 | 1 | | 8,600 | 80 | | 3.7 | | 96.3 | | | | DST #5 @ ? | |
| 5/7 | 3950 | 8.8 | 66 | 20 | 18 | 30/72 | 11.0 | 8.0 | 1 | | 7,100 | 20 | | 3.3 | | 96.7 | | | | TI w/Bit after DST 6 | |
| | | | | | | | | | | | | | | | | | | | | Final: LTD - 3954'. 6 DST's. Run Casing. | |
| | | | | | | | | | | | | | | | | | | | | | Unable to use displacement ditch after displacing due to a full reserve pit. Had to mix xtra mud to replace volume from jetting DST recovery |
| | | | | | | | | | | | | | | | | | | | | | Reserve Pit, Chl content ppm: 36,000 |
| | | | | | | | | | | | | | | | | | | | | | Estimated Volume: 800 bbls |

MUD-CO / SERVICE MUD INC.

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DRILLING MUD RECAP

| Materials | Sacks | Amount | Materials | Sacks | Amount | Amount |
|--------------|-------|--------|-----------|-------|--------|--------------------|
| C/S HULLS | 50 | | | | | |
| CAUSTIC SODA | 24 | | | | | |
| DESCO | 3 | | | | | |
| DRILL PAK | 9 | | | | | |
| LIME | 6 | | | | | |
| MIL-GUARD | 1 | | | | | |
| PREMIUM GEL | 409 | | | | | |
| SODA ASH | 29 | | | | | |
| STARCH | 62 | | | | | |
| SUPER LIG | 13 | | | | | |
| | | | | | | Total Mud Cost |
| | | | | | | Trucking Cost |
| | | | | | | Trucking Surcharge |
| | | | | | | Taxes |
| | | | | | | TOTAL COST |