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|---|--------|---|------|---|----------|------------------------------|---------------|--------------------------------|------------|---|----------------------|------------------|-------------|--------------|-------|------|--|
| Hydro Resources 13027 County Rd 18 FT Lupton, CO 80621 Phone: 303-857-4171 Version 1.25.1 | | | |  Hydro resources | | | | DRILLING MUD REPORT 2 | | | | | | | | | |
| Date 07/31/14 | | | | Measured Depth 2,820 ft. | | | | T.V. Depth | | | | | | | | | |
| Spud Date 07/30/14 | | | | Present Activity TD/Circ | | | | Rig No. 2 | | | | | | | | | |
| OPERATOR: | | Augustus | | | | CONTRACTOR: | | Excell | | | | | | | | | |
| Operator's Representative: | | | | | | Contractor's Representative: | | Mark | | | | | | | | | |
| Well Name & No. | | Field: | | Schram | | County, Parish: | | Yuma | | State: | | CO | | | | | |
| Ferguson 11-30 | | Legal: | | NWNW Sec 30-T2N-R46W | | VOLUMES | | PUMP INFORMATION | | HYDRAULICS | | | | | | | |
| BIT DATA | | CASING & DRILLING ASSEMBLY | | | | Pit Vol. | | PUMP #1 | | PUMP #2 | | ANNULAR VELOCITY | | | | | |
| Bit Size | 6.25 | Size | 7 | set @ | 467 | Ft | Pipe Capacity | GD200FXN | | | Drill Pipe | 178 | ft/min | | | | |
| Bit Type | TC MI5 | Size | | set @ | | Ft | 22 bbls | 5.5 x14 | | | Drill Collar | 178 | ft/min | | | | |
| Bit No. | | Size | | set @ | | Ft | Ann Volume | 61 SPM | | | CIRCULATING PRESSURE | | | | | | |
| Jets (32nd) | | Size | | set @ | | Ft | 83 bbls | 3.67 G/ST | | | 1300 psi | | | | | | |
| 13 | 13 | | | | 3.5 | 3 | Hole Volume | 224 GPM | | | BOT. UP | 16 | min | | | | |
| 13 | | | | | | | 105 bbls | 5.33 BPM | | | SURF. TO BIT | 4.1 | min | | | | |
| | | | | | 3.5 | 2.8 | Total Cir Vol | Total GPM | Total BPM | | TOT. CIR TIME | 38 | min | | | | |
| | | | | | | | 205 bbls | 224 | 5.33 | | | | | | | | |
| Sample Fro | | <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit | | Mud Properties | | Calculate Alkalinity | | <input type="checkbox"/> Check | | HYDRAULICS | | | | | | | |
| Flowline Temperature (°F) | | | | X | | | | | | Jet Velocity | | 185 | Ft/Sec | Nozzle Area | | | |
| Time Sample Taken | | | | 1200 | | | | | | Horsepower | | 1.1 | HP/SQ.In | 0.389 Sq In | | | |
| Depth (ft) | | | | 2820 | | | | | | Impact Force | | 5.9 | lb/Sq. In | ECD | | | |
| Mud Weight (ppg) | | | | 8.5 | | | | | | Press Loss at Bit | | 260psi | 8.6 | ppg | | | |
| Mud Gradient (psi/ft) | | | | 0.442 | | | | | | Press Loss at Bit | | 20% | | | | | |
| Funnel Viscosity @ | | | | 28 | | | | | | Recommended Equipment | | | | | | | |
| Plastic Visc.cp @ | | 75 °F | | 1 | | | | | | Cntrfuge <input type="checkbox"/> Shaker <input type="checkbox"/> Desander <input type="checkbox"/> | | | | | | | |
| Yield Point (lb/100ft2) | | | | 3 | | | | | | Degasser <input type="checkbox"/> Desilter <input type="checkbox"/> Other <input type="checkbox"/> | | | | | | | |
| Gel Strength (lb/100ft2) 10-sec | | | | 0 | | | | | | Recommended Mud Properties | | | | | | | |
| Gel Strength (lb/100ft2) 10-min | | | | 0 | | | | | | By Authority of: <input type="checkbox"/> Company Representative <input type="checkbox"/> Drilling Contractor | | | | | | | |
| Gel Strength (lb/100ft2) 30-min | | | | x | | | | | | Mud Wt: <input type="checkbox"/> Filtrate: <input type="checkbox"/> Viscosity: <input type="checkbox"/> | | | | | | | |
| Filtrate API (cm3/30 min) | | | | 8.0 | | | | | | LCM: <input type="checkbox"/> Excess Lime: <input type="checkbox"/> lb/bbl | | | | | | | |
| Filtrate API HTHP (cm3/30 min) | | | | x | | | | | | RECOMMENDED TOURLY TREATMENT | | | | | | | |
| Cake Thickness (/32nds) | | | | 1 | | | | | | | | | | | | | |
| Solids Content (% by vol) | | | | 1.3 | | | | | | | | | | | | | |
| Water Content (% by Vol.) | | | | 98.7 | | | | | | | | | | | | | |
| Sand Content (% by vol) | | | | .25 | | | | | | | | | | | | | |
| Bentonite Content (lb/bbl) | | | | x | | | | | | | | | | | | | |
| pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter | | | | 7.0 | | | | | | | | | | | | | |
| Alkalinity Mud (Pm) cm3 N/50 Acid | | | | x | | | | | | | | | | | | | |
| Alkalinity, Pf / Mf | | | | 0.0/1.3 | | | | | | | | | | | | | |
| Chloride (mg/l) | | | | 13000 | | | | | | | | | | | | | |
| Total Hardness as Calcium (mg/l) | | | | 520 | | | | | | | | | | | | | |
| Oil Content (% by vol) | | | | 0 | | | | | | | | | | | | | |
| LCM (lb/bbl) | | | | 0 | | | | | | | | | | | | | |
| Excess Lime (lb/bbl) | | | | 0 | | | | | | | | | | | | | |
| DAILY REMARKS | | | | | | | | | | | | | | | | | |
| Solids Analysis | | | | | | | | | | | | | | | | | |
| L.G. Solids | | | | % | | H.G. Solids | | | | % | | | | | | | |
| L.G. Solids | | | | ppb | | H.G. Solids | | | | ppb | | | | | | | |
| Corrected Solids | | | | % | | Average Sp. Gr. | | | | | | | | | | | |
| CHEMICALS | | GEL | LIME | CAUSTIC | SODA ASH | QDF PAC-1 | HYDRO VIS-30 | 74L | SOAP STICK | SAW DUST | BAR | WAL NUT | DRIS PAC SL | DRIS PAC REG | BEADS | LUBE | |
| Starting Inventory | | | | | | | | | | | | | | | | | |
| Chemicals Received | | | | | | | | | | | | | | | | | |
| Closing Inventory | | | | | | | | | | | | | | | | | |
| Chemicals Used | | | | | | | | | | | | | | | | | |
| Daily Cost | | | | | | | | | | | | | | | | | |
| CHEMICALS | | TREAT O CLAY | | | | | | | | | | | | | | | |
| Starting Inventory | | | | | | | | | | | | | | | | | |
| Chemicals Received | | | | | | | | | | | | | | | | | |
| Closing Inventory | | | | | | | | | | | | | | | | | |
| Chemicals Used | | | | | | | | | | | | | | | | | |
| Daily Cost | | | | | | | | | | | | | | | | | |
| TECHNICAL REP: | | Carla Restivo | | | | WAREHOUSE | | 13027 CR 18 | | | | NAME: | | | | | |
| CELL PHONE NO. | | 303-304-4528 | | | | ADDRESS: | | Ft. Lupton, CO 80621 | | | | PHONE: | | | | | |
| ANS. SERVICE: | | | | | | PHONE: | | (303) 857-4171 | | | | PHONE: | | | | | |
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