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Drilling and Operation Summary
Sheep Draw Federal #28-2

03/17/96 Day 15; Depth-1579'; Prog-0'; Oper- NU Wellhead; Liner 5 1/2' Stroke-18; Time Break Down; 3 hrs - Atmpt to set 8 5/8" slip; 3 hrs - WO delivery of 8 5/8" head & cut DL; 2 hrs - Cut off 1 1/4" head, weld on 8 5/8" head & test to 500 psi (Tested OK); 8 hrs - NU BOP & test blind rams & ck to 1000 psi, OK; 8 hrs - ND BOP - Pipe rams would not operate.
DMC: \$0 TMC: \$2,647
DWC: \$2,348 CWC: \$168,819

03/18/96 Day 16; Depth-1579'; Prog-0'; Oper- Drlg out cmt; MW 8.3, Vis 28; pH 11; Solids 2; Chls 700; Calc 400; Liner 5 1/2' Stroke-18; SPM 42; Press 500; Bit #4; SN-A14777; Size 7 7/8"; MCF-W/M; Type 53 CHF; Jets 13/13/14; Hrs 9 3/4 (drlg cmt); FPH 21; WOB 18; RPM 60; BHA 655.67; Time Break Down; 1 hr ND BOP to change out BOP; 5 hrs WO BOP; 4 1/2 hrs NU BOP - change rams; 1/2 hr test BOP @ 1000 psi for 30 min, OK; 3/4 hr-TIH & tag cmt @ 426; 1 1/2 hrs Drlg cmt & DV plug; 1 hr - Test DV tool & csg. To 1000 psi, OK. 9 3/4 hrs - Drl cmt in 8 5/8". Drlg @ 655' @ report time.
DMC: \$0 TMC: \$2,647
DWC: \$1,990 CWC: \$170,809

03/19/96 Day 17; Depth-1579'; Prog-0; Oper-TIH w/bit #4; Formation-Cmt; MW-8.4; Vis-28; pH-11; Chls-800; Calc-500; Bit-#4; S/N-A14777; Size-7 7/8; MFG-W/M; Type-53CHF; Jets-13/13/14; WOB-18; RPM-60; BHA-655.67; Liner-5 1/2; Stroke-18; SPM-42; Press-500; Time Break Down-19 1/2 hrs-Drlg cmt in side 8 5/8"; 3 hrs-POOH to ck bit #4; 1 1/2 hrs-RIH w/bit #4. Cmt drld @ 50 ft/hr dn to 1375' where it slowed to 12 ft/hr. POOH w/bit. Bit was good. RIH to 1385' & stacked out on something. Returns had metal cuttings in them. Wtr meter - 305384
DMC \$0 TMC \$2,647
DWC \$3,600 CWC \$174,409

03/20/96 Depth: 1,579'. Drlg. MW 8.4, Vis 28, pH 12.5, Solids .2, Chls 3,000, Calc 1000, Liner 5 1/2, Stroke 18, SPM 52. Bit #4, SN A14777, Size 7 7/8, MFG W/M, Type 53CHF, Jets 13/13/14, WOC 25, RPM 60, BHA 655.67. Time breakdown: 1 hr TIH w/bit #4, 1 1/2 hr Tag tight spot @ 1382'. Test csg to 1000 psi, OK. 1 1/4 hr POOH w/drill string. 4 1/4 hrs WO impress blk, 2 hr RIH w/7 1/2" impression blk. 2 hr POOH - impression blk showed we had cut a hole in the 8 5/8" csg @ 1382'. 2 hr RIH w/bit #4. 6 1/4 hrs Drill cmt, FC, FS to 1508'.
DMC: \$0 CMC: \$2,647
DWC: \$4,511 CWC: \$178,920

03-21-96 Day 19; Depth-2165'; Prog -593'; Oper.-Drilling; Formation-Limestone; MW-8.8; VIS-28; pH-12; Sand-Trace; Chls.-40,000; Calc-4,200; Liner-5-1/2; Stroke-18"; SPM-48; Bit #4; S/N-A14777; Size-7-7/8"; MFG-W/M; Type- 53 CHF; Jets-13,13,14; In-1572'; Fig.-593'; Hrs.-22-1/4; FHP-27; WOB-15-38; RPM-60; BHA-648.68; Time Break Down; 4-1/2 hrs.-Drlg.; 1/2 hr.-Survey 2° @ 1,638'; 12-1/2 hrs.-Drlg.; 1/2 hr.- Rig repair; 4-3/4 hrs. Drlg.; 1/2 hr.-Survey 1° @ 2,154'; 3/4 hrs.-Drlg. Hauled 3 loads of brine water; Changed mud to brine.
DMC-\$130. TMC-\$2,777.
DWC-\$8,310. CWC-187,230.