

LOCATION: 1780' FWL & 760' FNL, Section 33, T19S, R37E, Lea County, New Mexico  
DEPTH: 4050' (GL Elev 3584.6')  
CONTRACTOR: Cactus Drilling Co.  
DEAL: GWDC has a 64.476% W.I.

12-28-79 Building road & location.

12-29-79 Finished road & location.

12-30-79 Digging pits.

12-31-79 Down f/Sunday.

1-1-80 Finished digging pits.

1-2-80 No Report.

1-13-80 Day 1. Depth: 412'; Progress 412'; WOX and Nippling Up; Redbed. Native 9.4#, Visc. 34. Re-tim re-run Bits No. 1, 12 $\frac{1}{4}$ ", HTC, OSC-IGJ. Depth in -0-, out 412', Jet size 3-11's, Footage 412. WOB A11# @ 120rpm, PP 1,000psi @ 62spm. Spudded @ 12:30 PM, 1-12-80. T.D. @ 5:35 PM, 1-12-80 ran 9 jts. 8 5/8", 24#, JE, ST&C, Rg 3, Republic Steel Casing and ran 397.17' 8 5/8" CSG set @ 408.67' KBM-GL. 399.67. Cemented and flushed with 10bbls. fresh water, followed with 250 sacks Class "C" with 4% CaCl. mixed @ 14.8#/gal. Plug down @ 9PM. 1-12-80-Circulate 50 sacks. USGS notified-but did not witness. Added 3 sacks paper while drilling. Drilling 5 hrs, Slope Tests  $\frac{1}{4}$  hr., Trip 3/4 Hr. WOC & NU 9 hrs. Running Casing 1 $\frac{1}{4}$  hr. Cementing 3/4 hr., Rig up 5 $\frac{1}{2}$  hr. Circulating  $\frac{1}{2}$  hr. Cum Costs \$7,306.27

1-14-80 Day 2. Depth 1446'. Progress 1034'. Drilling, Anhydrite salt. Brine water, 10.0, Ph 7.5, Dev.  $\frac{1}{2}$ ° @ 878',  $\frac{1}{2}$ ° @ 1196' and 3/4° at 1446'. Bit No. 2 Size 7 7/8", HTC, X16, Depth in 412, 1034. WOB 30,000# @ 120rpm PP 1400psi @ 62spm. Test Blind rams 1000psi 30", held OK. Tested pipe rams, csg-1000psi, held OK. Top plug @ 367'. Received 98 jts. 4 $\frac{1}{2}$ " 10.5#, ST&C, R-3, K-55, U.S. Steel. Drilling: 11 $\frac{1}{2}$  hrs. Slope tests 1 $\frac{1}{2}$ hrs. Trip 1 hr., Rig Repair 1 3/4 hrs. Test Pipe Rams  $\frac{1}{2}$  hr. Jet. Pits. 1 hr., test pipe and BOP  $\frac{1}{2}$  hr., NU 3 3/4 hr., Drill Cement Plug 2 $\frac{1}{2}$  Hrs. Cum Costs \$26,407.27

1-15-80 Day 3, Depth 2750'. Progress 1304'. Drilling. Anyhydrite and Salt. Brine water Wt. 10.1, pH 7.0. Dev. 1° @ 1633', 1 $\frac{1}{4}$ ° @ 2140', 1 $\frac{1}{4}$ ° @ 2626'. Bit No. 2, 7 7/8", H.T.C., X16, Depth in 412'-out 2140' Footage 1728'. Jet size 3-10, Bit no. 3, 7 7/8", H.T.C., OW4J, Depth in 2140' Footage 610'. Jet size 2-10, 1-11. WOB 25000# @ 120rpm, PP 1400psi @ 61spm. 4 $\frac{1}{2}$ " Mill Tally, 4113.09', GWD 4099.71', 25 sacks paper, 1 sack hulls. Drilling 20 3/4 hrs, Slope tests 1 $\frac{1}{2}$  hrs, trip 1 3/4 hrs. Cum. Costs \$43,704.37

1-16-80 Day 4. Depth 3170'. Progress 420'. Drilling. Lime. Brinewater Wt. 10.1, pH 7.0. Dev. 1 $\frac{1}{4}$ ° @ 2098', 1° @ 2952'. Bit No. 3, 7 7/8", HTC, OW4, Depth in 2140', out 2951', Footage 812', Jet size 2-10, 1-11. BOB 40,000# @ 55rpm, PP 1400psi @ 62spm. SLM@2952'. N.C. - Corr. 4 $\frac{1}{2}$ " csg. tally-4089.71 new talley. Drilling 18 $\frac{1}{2}$ hrs. Slope tests  $\frac{1}{4}$  hr., trip 5 $\frac{1}{4}$  hrs., Cum. Costs \$50374.45