State M #26 Injection Well Page 2

- 9/24/86 Class "C" + 3% Calcium Chloride, locked up @ 1000 psig, no rate, RD & rel Howco, shut down 2 hrs to allow cement to set. RU reverse unit, wash out green cement dn to 155', TOOH w/tbg, fill 2-7/8" csg w/water and pressure to 300 psig. SDON.
- 9/25/86 TIH w/2-5/16" bit, tbg, tag TOC @ 158', begin drilling, drill out of cement @ 450'. Circulate hole clean, pressure test to 500 psig, bled down to 300 psig in 5 minutes. TOOH w/tbg, PU & TIH w/pkr to locate additional leaks @ 465' 523', TOOH w/tbg. SDON.
- 9/26/86 MIRU Howco, establish rate w/water @ 1 BPM @ 400 psig, pump 400 sxs Class "C" + 3% Calcium Chloride w/2 stages of 250 gals Flo-check, last 100 sx pressure increase to 800 psig, flushed. Rig down, release Howco, secure well, shut down, waiting on cement.
- 9/27/86 PU & TIH w/2-5/16" bit, 1.90 tbg, tag TOC @ 175', begin drilling, testing each 100' interval to 500 psig, drill out of cement @ 538'. Circulate hole clean, pressure test to 500 psig, held ok. Trip in hole w/remaining tbg, drill out cement on top of sand, wash sand off RBP, TOOH w/tbg. SDON.
- 9/28/86 Shut down for Sunday.
- 9/29/86 PU & TIH w/retrieving head, get on & release RBP, TOOH, perforate
 2 SPF @ 3534', 38, 47, 49, 58, 59, 68, 69, 86, 88, 89, 3602, 04, 12,
 13, & 15'. PU & TIH w/2-7/8" x 1.90 pkr & 1.90 tbg, circulate pkr
 fluid between tbg/csg annulus, set pkr @ 3400' with 10 points tension,
 flange up wellhead, establish rate @ 3-1/2 BPM @ 2700 psig, csg &
 tbg communicated. SDON.
- 9/30/86 Release pkr & TOOH w/tbg, found tbg leak 12 jts from surface. Continue tripping out of hole, tbg parted w/18 jts remaining in hole. PU & TIH w/overshot & bumper sub on 1.90 tbg, tag fish @ 3132', get on fish & TOOH. Lay down all tbg & rack test to 3500 psig. SDON.
- 10/1/86 PU & TIH w/2-7/8" tension pkr & 103 jts 1.90 tbg, circulate pkr fluid between 2-7/8" & 1.90 annulus. Pull out 1 jt set pkr @ 3218' w/8 pts tension, load and pressure backside to 500 psig. Establish w/field brine @ 3-1/2 BPM @ 3000 psig, pump 4600 gals 15% NEFE w/2500 lbs rock salt w/good diversion. ISIP = 1850 psig, 5 min SI = 1800 psig, 10 min SI = 1720 psig, 15 min SI = 1650 psig, mx pressure = 4000 psig, AIP = 3200 psig, min pressure = 2850 psig, AIR = 3.8 BPM, RD & rel all contractors. Shut well in 6 hrs, flow back until well cleans up.
- 10/2/86 Place on injection @ 250 BWPD @ 1650 psig.
- 10/7/86 Pressure test tbg/csg annulus to 430 psig for thirty minutes, held ok. Chart sent to NMOGC.