

- 1-01-93 SIT&C 0#, open well, finish TOH w/ tbg & BHA, L/D milling tools. RIH w/ 7-3/8" wallhook below 7-3/8" x 4-1/2" overshot. 3-1/8" bumper sub, 3-1/8" jars. (6) 3-1/8" DC's on 141 jts 2-7/8" tbg. R/U power swivel, tag csg on jt #142 @ 4599' (36' below top of fish). Worked 4 hrs. Could not pull csg out of wall. R/D swivel, POH w/ 120 jts 2-7/8" tbg. SI, SDON. DC = \$5,996. CC = \$29,057.
- 1-05-93 SIT&C 0#, open well, finish TOH w/ tbg & BHA. Install 2 deg. bent sub above overshot, RIH w/ BHA on 142 jts 2-7/8" tbg. R/U power swivel. Worked 4 hrs, could not pull csg out of wall, R/D swivel, POH L/D workstring & tools. N/D 10" BOP, N/U 6" BOP, RIH w/ 80 jts 2-3/8" tbg open ended to 2532'. SI, SDON. DC = \$3,999. CC = \$33,056.
- 1-06-93 SIT&C 0#, open well, POH w/ 80 jts 2-3/8" tbg. Install 7-3/8" SN, RIH w/ RD jts 2-3/8" tbg to 2533'. Rig to swab. RIH, IFL 400', swab 4 hrs, rec. 99 BW w/ no show of hydrocarbons. FFL 1300'. R/D swab. SI, SDON. DC = \$1,886. CC = \$34,942.
- 1-07-93 SIT&C 0#, open well, RIH w/ 66 jts 2-3/8" tbg. R/U HOWCO, circ hole w/ 10# from 4613'. Spot 35 sk Class "C" plug 4613-4502. L/D 6 jts tbg, rev. tbg clean, S/D, WOC 3 hrs. RIH & tag plug @ 4502'. POH L/D tbg to 3918', spot 35 sk plug 3918-3780. POH w/ 20 jts tbg, rev. tbg clean. SI, SDON. DC = \$2,430. CC = \$37,372.
- 1-08-93 SIT&C 0#, open well, POH w/ 124 jts 2-3/8" tbg & SN. Rig to run csg. RIH w/ 4-1/2" shoe (.60) 1 jt cond.2, 4-1/2" 11.6# K-55 LT&C (44.15') float collar (.90) 55 jts cond.2, 4-1/2" 11.6# K-55 LT&C (2286.45). 34 jts cond.1 4-1/2" 11.6# K-55 LT&C (1464.15). Total pipe (3796.25). Shoe @ (3816.25')KB. Pipe is centralized from TD to 3022'. SI, SDON. DC = \$2,694. CC = \$40,066.
- 1-09-93 SICP 0#, open well, R/U HOWCO, break circ w/ 12 bbls 2% KCl. Pump add. 18 bbls 2% ahead, start slurry, cmt prod csg w/ 300 sk Class "C" Prem Plus w/ 8#/sk silicalite, 6/10% Halad 322 & 3% salt @ 13.6#/gal. Displace w/ 58.5 bbls 2%. Plug dn @ 9:00 a.m. Released press, float held. Cal TOC 2604'. R/D HOWCO. SI, SDON. DC = \$15,452. CC = \$55,518.
- 1-10-93 SDFWE.
- 1-11-93 SDFWE.
- 1-12-93 SI 0#, open well, N/D BOP & 11" flange. Pull 15,000# tension into csg string, set slips, made cutoff. N/U tbg head & BOP. RIH w/ 3-7/8" milltooth bit & 4-1/2" csg scraper on 76 jts 2-3/8" N-80 tbg. SI well. S/D w/ eng. problems on unit. Bit @ 2421'KB. (Turn job over to Rick Gaddis.) DC = \$3,337. CC = \$58,855.
- 1-13-93 Resumed operations @ 12:30 p.m. MST. FIH w/ bit & csg scraper to PBTD of 3766'KB. POOH L/D 2-3/8" 4.7#/ft N-80 tbg & tools. P/U 2-3/8" 4.7#/ft J-55 tbg. RIH w/ 27 jts before tbg tongs broke. SWI. SDFN. DA&S will repair or exchange tbg tongs. DC = \$780. CC = \$59,635.
- 1-14-93 POOH w/ tbg. R/U perforators & RIH w/ 3.687" gauge ring w/ junk basket to PBTD. POOH w/ tools. R/U full lubricator w/ 3-1/8" gamma gun inside. Test lubricator to 1000 psi - held OK. RIH & pulled GR-CCL from PBTD to 3400'. Correlated to open hole logs. Perf's Delaware @ 3637-47' w/ 2 JSPF for a total of 22 holes. All shots fired. POH & R/D perforators. P/U 4-1/2" RTTS tool, SN & RIH on 119 jts 2-3/8" tbg to 3663'KB. R/U Acid Engrng & circ'd 200 gals Pentol 100 down tbg & out csg w/ 2% KCl wtr. P/U pkr 10' & spotted 100 gals of Pentol 100 plus additives across perfs. P/U pkr to 3600', pump 2 bbls 2% KCl wtr down backside & set RTTS tool. Pressured backside to 550 psi. Broke down Delaware perfs 3637-47' @ 1860 psi w/ acid on spot. Acidized perfs w/ a total of 800 gals of Pentol 100 (15% HCl w/ additives), dropping 33 ball sealers for divert. Good ball action. Balled out, surged balls off perfs & resumed acidizing. AIR 3.5 BPM @ 1430 psi; max press 3300 psi; min press 1300 psi. Flushed w/ 2% KCl wtr. ISIP - 800 psi; 5 min SI - 700 psi; 10 min SI - 500 psi; 15 min SI - 350 psi. R/D service company. R/U swab. Tbg on vacuum. Made 1 swab run recov'g 4 BW. IFL 200'FS. SWI, SDFN. DC = \$7,364. CC = \$66,999.
- 1-15-93 SITP on vacuum. R/U swab. IFL @ 800'FS. 1st swab run had small amt of oil on top. Made a total of 30 runs in 11-1/2 hrs. Recov'd 93 BW. SWI. SDFN. DC = \$1,910. CC = \$68,909.