

8/12/77	65	Drilg. Spud 12 1/4" hole 3:45 a.m., 8/12/77. 60 RPM, Bit #1, Smith, X-35, 65' in 2-1/4 hrs. \$4,560
8/13/77	290	Nip'g up LOP. 1/20 @ 290 GL 6105', KB 6111' Drilg 12-1/4" hole to 100'. Ran 6 jts 8-5/16" OD K-55 STAG R-3 N csg. 274.04', set at 277.04' KB cmt w/200 ex Cl "B" w/o. Cmt, 10 2:25 p.m. 8/12. Cmt circ + 14 hrs.
8/14/77	1975	Drilg sd & sh. 1/2 @ 605, 3/4 @ 1220, 1510 & 1915 Nip'd up, tested csg & COP to 750', hold O.K.. 60 RPM, 35% Mud 9.1, vis 28. B #2, Sec., 5-01, in @ 690' & drlg, 1655' in 20-1/2 hrs. \$29,276
8/15/77	3075	Drilg sd & sh. 3/4 @ 2441', 3/4 @ 2955'. 60 RPM 35% Mud 9.1, vis 22. B#2, Sec., 584, in @ 290' & drlg, 2785' in 43-1/2 hrs. \$39,010
8/16/77	3370	Drilg, sd & sh. 1/4 @ 3391'. 60 RPM, 25% Mud: 9.0, vis 30, WL 12. B 2, Sec., 584F, 290-3301', 3011' in 51-1/2 hrs. B#3, S#1, L#H, 3301-3391', 0' in 2-1/2 hrs. 584, Sm, DGTN, 3301' & drlg, 69' in 5-1/2 hrs. \$42,784
8/17/77	3760	Drilg, sd & sh. 1/4 @ 3602'. 60 RPM, 30% Mud: 9.1, vis 39, WL 10, FC 2/32. B#4, Smith, DGTN, 3301-3370', 77' in 6 hrs. B#5, Smith, F-2, in @ 3378' & drlg, 382' in 10-3/4 hrs. \$47,001
8/18/77	4155	Drilg, sd & sh. 1/4 @ 4071'. 55 RPM, 30% Mud: 9.1, vis 38, WL 6.6, FC 2/32, Fh 8.5. B#5, Smith, F-2, in @ 3378' & drlg, 777' in 43-1/2 hrs.
8/19/77	4495	Drilg, sd & sh. 1/4 @ 4383'. 55 RPM, 30% Mud: 9.2, vis 39, WL 7.2. B#5, Smith, F-2, in @ 3378' & drlg, 1117' in 67-1/4 hrs. \$54,597
8/20/77	4705	Sd & sh, circ'g f/logs. 55 RPM, 35% Mud: 9.2, vis 52, WL 8, FC 2/32, Sd 1.58 sd, Ph 7.5. B#5, Smith, F-2, 3378-4705', 1327' in 59-1/4 hrs. TD @ 4:15 am 8/20. \$59,735
8/21/77	4705	TD - Hooking up Howco to cmt csg. Ran DIL focused log & comp dens-cmt neut logs. MLTD 4707'. \$71,439
8/22/77	4705	TD - WOC. Prep rep rig & MCRT. Ran 117 jts 5-1/2" OD 15.58 K-55 LT60 csg, 4691', set @ 4764' KB, Howco DV @ 3409'. Bkr GS & diff fill/fluo, collar, 8 cent. 22 scratchers. Cmt 1st stage w/200 sx 50-52 Poz w/12.5' gilsonite/sx & 50 sx Cl "B" neat, gd circ thruout. PD 7:30 am 8/21. Circ 4 hrs. Cmt 2nd stage w/400 sx Howco Lite w/10% gilsonite/sx & 50 sx Cl "B" neat, gd circ, PD 12:18 pm 8/21. Set slips, cut off csg. Rig rel 1:15 pm 8/21/77. \$123,651
8/23/77	4705	TD - MCRT. \$108,651
8/24/77	4705	TD - MC completion
10/21/77	4705	TD - RI & RU Farmington Well Service.
10/22/77	4655	PB - Prep POH & log. Inst tbg head & LOP. PU & ran 4-3/4" bit, csg scraper on 2-7/8" tbg. Drilg DV @ 3409'. CO to 4655' KB, tbg meas., displ hole w/2. RCL vtr. SDON. \$110,375
10/23/77	4655	PB - SD a/c Sunday. POH w/2-7/8" tbg, scraper & bit. Inst ECP. RU Co Int'l. Ran CBL w/var dens & CR correl logs, WL PD10 4657' to 3600'. Indicated top cmt 1st stage 3760'. RU & perf'd w/1 jet shot @ 4476', 4479', 4482', 4485', 4488', 4491', 4494', 4497', 4500', 4503', 4517', 4519', 4521', 4535', 4543', 4547', 4550', 4553', 4587', 4589', 4634', 4637', 22 holes, CR-correl 4476' = 4474' FRC/CHL. SDON. \$
10/24/77	4655	PB - Prep to run tbg & pkr. SD f/Sunday.
10/25/77	4655	PB - Prep to CO w/N2 & foam. Ran 2-7/8" tbg w/Bkr pkr to 4640'. RU Howco. Spot 210 gal 15% HCl over Hv perfs 4476-4637'. Pld 6 jts, set pkr @ 4440'. Acid Hv w/1500 gal 15% HCl, brk 2100-1000', drop 30 ball sealers, spaced evenly thru job, gd ball action, flush oc & balled off @ 3500'. Max IR 10 BPM, min 3.5 BPM @ 100'. Lower pkr thru perfs to knock off balls. PU tbg & pkr. Frac Hv perfs 4476-4637' dn csg w/157,500 gal 22 HCl wtr w/28 fric reducer & 15% MAC-9/1000 gal & 166,500 gal 20-40 sd; 3,000 gal ped, 30000 gal w/1/2"/gal sd; 24000 gal w/1"/gal sd; 27000 gal w/1-1/2"/gal sd; 40000 gal w/2"/gal sd; 4500 gal flush. MP 2500, min 2100, avg 2300, 150 1400, 5 min SD 600, 10 min 750, 15 min 650, 30 min on vac. JC 2:12 pm 10/24. AIR 40 BPM. Ran 2-7/8" tbg opn ended, tag sd @ 4516', pld 2 stnds. SDON. \$143,117
10/26/77	4655	PB - Prep KO w/N2. Lower 2-7/8" tbg to top sd @ 4516'. Hook up Howco. Used N2 & foam to CO sd to 4655'. Pld & LD 7 jts tbg. Etn tag @ 4442'. Displ wtr out of csg w/N2. Tbg blew dn in sd. 6000' CP. Hook Howco to csg. Displ wtr out of tbg. Ran out of N2 before kicking off. Well blew hvy fog w/dens wtr & sd. Logged off & died. RU sub, FL 2000'. CP 840, sub 2 hrs, rec'd 30 BLW. SDON. \$146,715
10/27/77	4655	PB - Flwg to clean up. 8:00 am 10/26, CP 825, TP05. RU Howco to 2-7/8" tbg. Displ wtr out of csg. SI when well blew around. RU Howco to csg, jett'd N2 into csg f/200 to 1500 SCF/min til well KO @ 12:15 pm CP 475, 1:30 pm 425, 2:30 pm 400. Unloading lots wtr & sd, tr of oil, left opn to pit 0' nite. Used total 128,000 SCF N2. \$150,463
10/28/77	4655	PB-Flwg to clean up. 8:00 am 10/27, CP 425, tbg opn to pit, well loading & unloading wtr, CP fluctuating f/425 to 475. Inc to 525' & well died. Made sub run f/bn, well flw 20-30" after sub run. KO @ 1:00 pm, hvy wtr & sd flw, 1/2 cup sd/gal wtr, sd & wtr dec'g, pitot tube avg 1.2 MPD w/d to hvy spray wtr. Left tbg opn to pit, CP 525. @ 4:30 pm. \$160,126
10/29/77	4655	PB - Prep CO sd w/N2 & foam. 8 am 10/25, CP 250, tbg opn to pit, flwg spray wtr w/tr sd. Killed tbg w/RCL wtr. POK & LB 2-7/8" work string. Ran 2-1/16" tbg. Tag sd @ 4491', 5804. \$161,837
10/30/77	4655	PB - Flwg to pit to clean up. Hooked up Howco. CO sd 4551' to 4655', rec'd hvy sd on 1st jt only. Landed 2-1/16" ID 10 rd 3.25 B-27 tbg @ 4544'. Landed tbg on donut. Left flwg to pit thru tbg. Rel unit 10/29. Moved to Graham "C" #1-A. \$165,394
10/31/77	4655	PB - Flwg to pit to clean up, no ga. \$165,396
11/01/77	4655	PB - SI 10:00 am 10/31/77. VO state potential. \$165,396
11/9/77	4655	PB - Commenced pumping 33.3 gpm. 2 hr flu test on 18 1/2" c/s to, 18 1/2" ID, 2 hr 100 lbs, 170 120", lower temp 60, 1/2 plate, Howco perfs 4476-4637' evened. Cond. cut to 10 BPM, 57 wtr.