

11/05/77	4684	PB - Prep to swb. Hook up Howsco. CO 176' sd to 4684'. Pld 26 jts tbgs. Kicked off w/H ₂ , flwd 1 hr & died. RU & swbd 4 hrs, KO, left flwg to pit. Died 0'nite. this a.m. TP 0#, CP 675#.	\$158,011
11/06/77	4684	PB - Flwg to pit to clean up. Yest am CP 675#, TP 0#, well head. Pld swb twice & kicked off. Left opn to pit, making lots wtr, meas w/2" orifice well tester @ 937 MCFPD.	\$158,811
11/07/77	4684	PB - Flwg to pit to clean up.	\$159,211
11/08/77	4684	PB - Prep set Mod "D" pkr w/expendable plug. Yest a.m. 175# CP, tbgs opn to pit. Hook up dbl line f/csg to pit. Killed tbgs w/KCl wtr. Lower tbgs & tag sd @ 4679', 5' fill. POH w/2-7/8" tbgs. Closed BOP. SDON.	\$160,096
11/09/77	4684	PB - Prep to run retbl sq tool & brk dn perfs. RU GO Int'l, drum turned while rigging up. Backlashed line, 4 hrs straighten & respool line. Set Bkr Mod "D" Prod pkr w/expendable plug @ 3875' (CBL Meas). Dumped 10' sd on top of pkr. Filled hole w/wtr, tst pkr to 2500# f/20 min, held OK. Perf 4 holes 3222-23' (CBL Meas). RD GO Int'l. Closed BOP. SDON.	\$164,558
11/10/77	4684	PB - Prep POH. Ran Howco RTTS pkr, on 2-7/8" tbgs, set pkr @ 3069'. Press csg to 800#, pr dn tbgs to brk perfs @ 3222-23'. Brk @ 3400#, est rate 3-1/2 BFM, Mx 100 sx Cl "B" neat. Pmp 87 sx in perfs, staged. Final 3000#, circ tbgs clean. No cmt circ'd. Pld 1 std, set pkr @ 3007'. Press tbgs to 800#. JC 2:00 p.m. SDON.	\$168,106
11/11/77	4684	PB - Cont to drill out cmt. POH w/Howco RTTS pkr & tbgs. Ran 4-3/4" bit & 5-1/2" csg scraper. Top cmt @ 3102'. Drld 106' hd cmt, SDON.	\$170,228
11/12/77	4684	PB - Prep run tbgs, CO & KO. Drld 15' cmt, ran bit & scraper to 3865', top sd @ pkr. Pld 22 stds, tst csg to 2000# f/15 min, OK, Circ hole w/KCl wtr. Spot 500 gal 15% HCl. POH w/tbgs, bit & scraper. Perf'd Chacra 3196-92' & 3168-62' (D-A meas) w/1 JSPF, 12 holes. RU Dowell. Frac Chacra 3162-3196' OA dn 5-1/2" csg w/24,000# 20-40 sd & 28,100 gal 2% KCl wtr w/2# friction reducer/1000 gal & 16# fld loss add've/1000 gal in 1st 2/3 of frac: Brk dn @ 2000#; 5000 gal pad @ 1700#; 4000 gal w/1/2"/gal sd @ 1600#; 4000 gal w/1"/gal sd @ 1500#; 12,000 gal w/1.5"/gal sd @ 1450-1400#; 3100 gal flush @ 1400-1700#; IR 24 BPM, ISD 1100#, 10 min 900#, job comp 3:30 pm 11/11/77. SDON.	\$179,703
11/13/77	4684	PB - Flwg to pit to clean up. Removed BOP. Inst dual tbgs hanger spool, inst 1" Ran 2-7/8" tbgs to top sd @ 3730', CO 145' sd w/H ₂ & foam to pkr @ 3875'. Killed tbgs. Pld tbgs to 3054'. KO w/H ₂ , left flwg to pit, vy vy wet.	\$182,543
11/14/77	4684	PB - Flwg to pit, 1/2" stream wtr. Prep att meas gas, POH, run dual strings.	\$182,543
11/15/77	4684	PB - Prep CO w/H ₂ & sting into pkr. Chacra flwg to pit 0'nite. Pitot tube 367-391 MCFPD, est wtr 10-15 BPD. POH w/2-7/8" tbgs & LD. PU 2-1/16" compln tbgs w/prodn tube & seal assy. Ran to top sd @ 3845'. SDON.	\$202,199
11/16/77	4684	PB - SI f/state potential. Ran 2-1/16" IJ long string & hung above sd. Ran 96 jts 1.90" IJ (3,168.70' tbgs), & landed in 2-1/16" bore split donut. Hook up NOWSCO & CO sd on top of Mod "D" pkr. Attempted to sting in pkr, could not get thru pkr bore. Hook up NOWSCO again & CO pkr bore. Lower tbgs & KO plug f/Mod "D" pkr. Left well blow dn 1-1/2 hrs. Landed 2-1/16" OD 3.25# N-80 tbgs w/seal assy @ 3892.42'KB. Landed 1.90" IB 2.76 CW-55 tbgs @ 3177.20. Kill Mv. NU tree. SI 4:30 pm, 11/15/77 f/state potential.	\$206,309
11/17-12/5/77	4684	PB - SI f/state potential.	
12/06/77	4684	PB - SI f/pkr leakage test.	\$206,309
12/07/77	4684	PB - Calculating today - pkr leakage test complete.	\$206,309
12/08/77	4684	PB - COMPLETED DUAL GAS WELL 12/07/77. Chacra test: SICP 976#, SITP 976#. 3 hr flw tst on 3/4" ch, 890 MCFD, 3 hr FCP 231#, TP 114#. Prover temp 52°, 3/4" plate. Chacra perfs 3162-3196'OA. Mesaverde test: 20 day pkr, SITP 905#, 3 hr flw tst on 3/4" ch, 1020 MCFD, 3 hr pkr, TP 200#. Prover temp 55°, 3/4" plate. Mesaverde perfs 3891-4643'OA.	\$206,309