

May 14, 1990

- 4/3/90 Pump into formation @ 3 BPM at 2200 psig, spotted cement to bottom of tubing. Squeezed perforations at 8949' - 63' KB. with 200 sacks Class "H" with 0.05% Halad 9 and 200 sacks Class "H" Neat. Reversed 45 sacks cement to pit. Waiting on Cement.
- 4/5/90 Run in hole with tubing and tag cmt. retainer, set tubing @ 8940' KB. Start pumping down tubing to circulate hole and spot acid. Partial Plugging in tubing. Pumped 10 barrels down casing and reverse circulate. Pump down tubing and circulate hole with 2% KCL water. Pump 250 gallons 15% HCL acid to bottom of tubing and over-displace with 10 barrels water. Reverse acid back to pit. Spot 250 gallons of 15% NEFE acid. Perforate at 8908' -16' KB and 8928' - 36' KB w/2 SPF. Swabbing.
- 4/6/90 Acidize with 4000 gallons 28% NEFE acid with friction reducer and 64 ball sealers and 2000 gallons 2% KCL water overflush. Swabbing.
- 4/10/90 Release packer and POOH with 272 joints tubing, SN and pkr. TIH w/CIBP, set @ 8880' KB. Perf. 7931' -51' KB/ w/2 SPF. Ran tbg. in hole: 3 jts. tbg., pkr., SN, and 242 jts. tbg., tested in hole to 6500 psig, no leaks, set tbg. @ 7962' KB. Circ. hole with 2% KCL water. Spot 250 gallons 15% NEFE acid w/1/2 gal. PENN 88. POOH w/3 jts. tbg., set btm. of tbg. @7872' KB. RD BOP. RU Stripper rubber, reverse 5 bbls. fluid back in tbg., set pkr. w/ 10,000 # tension. Pressure up to 500 psig on annulus, small leak, release pkr. and lay down 1 jt. tbg., set btm. of tbg. @ 7840'. Pressure up on annulus, held ok. Swabbing.
- 4/11/90 Acidized 7931' -51' KB w/4000 gallons 28% NEFE SGA acid, 2000 gallons 2% KCL water overflush and 80 BS. Swabbing.
- 4/13/90 Rigged up BOP. Released pkr. and POH. Ran and set HOWCO RBP @ 7828" KB; POH to 7700' KB. Circ. hole w/2% KCL wtr. and spotted 250 gallons of 10% acetic acid to spot. Closed BOP, tested w/1000 psig, ok. Perf. 7678' -7692' w/15 0.33" diameter holes. WIH w/RTTS, SN and tbg. to approx. 7610' KB; reverse circulated w/5bbls. 2% KCL water. Swabbing.
- 4/14/90 Acidized w/2000 gals. of 7.5% MS acid. Swabbing.
- 4/17/90 RU BOP. Release RBP @ 7833' KB. Lay down 97 jts. tbg. POOH w/144 jts. tbg.
- 4/18/90 RIH w/wireline and dump 35' cement on top of CIBP at 8800'. Set CIPP @ 7850', spotted 35' cmt. on top Set CIBP at 7600', spotted 35' cement on top. Sand jet perf. 3 holes @ 4637' KB. Washed 400 gallons acid around perfs. Spot 200 gallons 15% NEFE acid. RIH w/18 jts. tbg., 141 jts. total in hole. Set btm. of tbg. @ 4587' KB. Swabbing.
- 4/24/90 Pmpd. 115 bbls. 2% KCL wtr. down tbg. to circ. set tbg. at 4624' KB. Spot acid to btm. of tbg. and close csg. valve. Acidize @ 4637' w/3000 galls. 15% MOD 202 SGA. Swabbing.