

32. Acid, Shot, Fracture, Cement Squeeze, Etc.

Perf. 8748'-8760'. Acidize w/2000 gals 7 1/2% MS acid and frac w/40,000 gals. My-T-Frac 80# gel and 67,500# 20/40 sand & 2000# 20/40 glass beads.

Perf. 8684'-8690' & 8694'-8702'. Acidize w/2000 gals. 7 1/2% MS acid.

Perf. 8626'-8644', 8652'-8656' & 8672'-8684'. Acidize perfs. 8626'-8702' incl. w/3500 gals 7 1/2% MS acid and frac perfs. 8626'-8702' incl. w/40,000 gals My-T-Frac 80# gel and 72,500# 20/40 sand & 2500# 20/40 glass beads.

37. Summary of Porous Zones.

DST #1 (Penn. lime) 7499'-7550', open total of 45 min. No GTS. Rec. 60' drlg. mud, no shows. IHP 3482#, 15 min. IFP 108#-129#, 60 min. ISIP 2786#, 30 min. FFP 172#-237#, 115 min. FSIP 2786#, FHP 3440#, BH sampler rec. no gas, 200 cc drlg. mud, no shows. Sampler press 0#, BHT 140°.

DST #2 (Atoka sand) 8320'-8710', open total of 5 hrs. 23 min. Pre-flow (23 min.) op. w/strong blow & increasing. Set on 1/4" ch., w/GTS in 7 min. Final flow (4 hrs. 48 min.) open on 1/4" ch. w/GTS immediately @ 100# inc to 300# in 10 min. Open ch. to 3/4" @ 350# decreasing to 255# in 20 min. Set ch. on 1/2" @ 425# decreasing to 328# @ rate of 2,100,000 CFGPD after 3 hrs. 35 min. Changed ch. to 1/4" and FTP inc. to 800# @ rate of 1,180,000 CFGPD after 30 min. Rec. 180' drlg. mud, 460' GC drlg. mud. IHP 4477#, 23 min. IFP 798#-1066#, 61 min. ISIP 3300#, 288 min. FFP 953#-1221#, 180 min. FSIP 3244#, FHP 4307#, BHT 133°.

DST #3 (Atoka sand) 8710'-8769', open total of 1 hr. 23 min. Pre flow (23 min.) op. w/weak blow & cont., no GTS. Final flow (60 min.) op. w/good blow, had GTS in 19 min. into final flow. Set on 1/2" ch. w/FTP 3# @ rate of 112,000 CFGPD decreasing to FTP 1# @ rate of 100,000 CFGPD after 6 min. Changed to 1/4" ch. w/FTP 1# @ rate of 23,500 CFGPD increasing to FTP 4# @ rate of 27,900 CFGPD after 20 min. & stabilized. Rec. 290' GC drlg. mud. IHP 4445#, 23 min. IFP partial plugging (upper chart was 69#-103#), 60 min. ISIP 1295#, 60 min. FFP 92#-166#, 120 min. FSIP 2162#, FHP 4408#, BHT 140°.