

- 3/30/83 1500 psi flowing on partially plugged choke, found 13 frac balls & 1 piece metal 2 $\frac{1}{2}$ " long in choke, RU Otis slick line, ran impression block and tagged @ 11,822', sand impression, ran bailer & bailed & sand pumped, cleaned out to 11,831' & then lost back to 11,828', made 12 runs w/bailer, rec a total of 44 balls, frac sand & West prop., SD @ 6:00, bailed 10 $\frac{1}{2}$ hrs, SITP 10 $\frac{1}{2}$ hrs 2100 psi.
- 3/31/83 FTP 350 psi on 18/64" choke, ran Otis bailer on slick line, tagged up 11,829', where the work stopped the evening before, cleaned out to 11,838', the last 2 runs carved back into 11,832', made 3' for the day, rec 12 frac balls, which leaves 11 balls in the hole, made 12 runs w/bailer, had 3 dry runs, was still picking up mixture of 20-40 mesh sand & 20-40 super prop #1, on the last run picked up a little wtr, SIP @ 6 PM 2100 psi, 10 $\frac{1}{2}$ hrs.
- 4/1/83 SITP 2200 psi, RU Nowasco, ran coil tbg to 10,500', started nitro & working dn hole, found top of sand @ 11,830', worked & circ to 11,990', PU & set dn on top of pkr 4 times, same btm 11,990', started circ from btm @ 30" @ a time by picking up 11,990' to 11,830', hung up once @ 11,928' tight spot, total circ time 2 $\frac{1}{2}$ hrs, rec very little sand, well blew out 4-5 bbls fluid, had hole come in coil tbg @ 11,898', circ out of hole w/nitro, Otis ran bailer on slick line, tagged up @ 11,824', no indications of sand in the tbg, felt like after tagging up, the sand was still falling in hole, made 1 run w/bailer, rec wet sand, SDFN. 7 AM, 4/1/83, SITP 2100 psi, wtr analysis of sample: 74% wtr, 21% condensate, 5% emulsion, SP. gvty. 1.042 @ 75° F, PH-7, iron good to strong, hardness 12,800 ppm, cal 4,000 ppm, magnesium 680 ppm, sodium pot-assium 16,850 ppm, bicarbonate 2,477 ppm, chlorides 33,600 ppm sodium chls 55,272 ppm, resistivity 1.020 @ 75° F, KCL-0, & oil gvty. 54° @ 60° F.
- 4/2/83 SITP 2100 psi, RU Nowasco, went in hole w/coil tbg, started nitro @ 10,000', tagged btm @ 11,983' did not touch anything going dn, PU 4 times on tbg & lowered back to btm, pulled back to 11,800', started back to btm washing slow, set on btm for 2 hrs, circ, moving tbg 20' up & dn, pulled back up to 11,670' and washed back to 11,983', circ off btm for 5 hrs, moving tbg 1 time per hr, circ @ 750 SCF nitro @ 2900 psi, POH, RD Nowasco, sand returns, poor to good.
- 4/3/83 SITP 2200 psi, took choke off, had 12 frac balls in it, RU Otis slick line & bailer (1-3/4" OD), 2 runs were dry, rec good loads of 20-40 mesh sand & West pr 20-40, plus piece of rubber 1 $\frac{1}{2}$ " long by 1/8" wide, looks like it came off of a frac ball, sand pumped to 11,842' & SDFD.
- 4/4/83 SD
- 4/5/83 SITP 2700 psi, RU Nowasco & ran 1" coiled tbg to 11,852' & tagged, PU & retagged & found fill @ 11,852', 2nd time PU to 11,800' & started nitro @ 600 SCFM, lowered tbg & washed to 11,982', increased N₂ to 750 SCFM, pumped 4 hrs, PU to 11,800' & lowered to 11,982' w/N₂ rate @ 600² SCFM, pumped 2 $\frac{1}{2}$ hrs more, total N₂ time 7 $\frac{1}{2}$ hrs, started out of hole w/1" tbg, press 2900-3000 psi, total N₂, 387,200 SCF, SWI & SD.