

Plugged Back and Fracture Treated as follows:

1. Pulled rods, pump and tubing. Ran Gamma Ray Neutron.
2. Ran 2-3/8" tubing with cement retainer at 3805'. Squeeze cemented open hole from 3815-3858' with 213 sacks cement. Maximum Pressure 2500#. Pulled tubing.
3. Perforated 5-1/2" casing from 3730-3782' with 4, 1/2" jet holes per foot. Ran 120 joints 2-3/8" tubing with hookwall packer at 3641' and hydraulic holddown at 3639'. Washed perforations in 5-1/2" casing from 3730-3782' with 250 gallons mud acid, squeezed into formation. Swabbed and well kicked off.
4. Pulled tubing, packer and holddown. Plugged back to 3786 with 11 gallons Calseal. Plugged back to 3763' with 21 gallons Hydramite. Ran 2-7/8" tubing with hookwall packer at 3690' and hydraulic holddown at 3688'. Swabbed dry.
5. Treated formation thru perforations in 5-1/2" casing from 3730-3763' with 7476 gallons gelled lease oil with 1# sand per gallon. Pulled 2-7/8" tubing, packer and holddown.
6. Ran 118 joints 2-3/8" tubing at 3739'. Swabbed and well kicked off. Pulled tubing. Plugged back to 3720' with Hydramite. Perforated 5-1/2" casing from 3714-3715' with 8, 1/2" jet holes per foot.
7. Set cement retainer on wire line at 3690'. Spotted 500 gallons Gealment on retainer. Ran tubing and bit, tested 5-1/2" casing with 1000#, OK. Drilled cement and retainer to 3720'. Tested 5-1/2" casing with 1000#, dropped to 0# in 40 seconds. Pulled tubing and bit.
8. Set cement retainer on wire line at 3685'. Pumped 500 gallons Gealment. WOC. Ran tubing and bit, tested 5-1/2" casing with 800# for 30 minutes, OK. Drilled cement and retainer to 3720'. Tested casing and perforations at 3715' with 500#, OK. Drilled hydramite and sand to 3763'. Pulled tubing and bit. Ran 118 joints 2-3/8" tubing set at 3739'. Swabbed and well kicked off.