

Plugged back and acid treated as follows:

1. Pulled rods, pump and tubing. Ran 2-3/8" tubing with 5-1/2" cement retainer set at 3756'.
2. Squeeze cemented thru perforations in 5-1/2" casing from 3765-3795' with 202 sacks cement in 4 stages. Maximum Pressure 3000#. CP 500#. Pulled 2-3/8" tubing. WOC.
3. Perforated 5-1/2" casing from 3725-3748' with 4, 1/2" jet holes per foot. Ran 120 joints 2-3/8" tubing with 5-1/2" packer at 3713' and hydraulic holddown at 3711'. Swabbed dry. Treated formation thru perforations in 5-1/2" casing from 3725-3748' with 250 gallons 15% NE acid. Injection rate 84 gallons per minute. Swabbed dry. Treated formation thru perforations in 5-1/2" casing from 3725-3748' with 1500 gallons 15% NE acid. Injection rate 172 gallons per minute. Swabbed.
4. Pulled tubing, packer and holddown. Ran 2-3/8" tubing, rods and pump.
5. Pulled tubing, rods and pump. Perforated 5-1/2" casing from 3708-3718', with 4-1/2" jet holes per foot. Ran 121 joints 2-3/8" tubing with 5-1/2" packer at 3686' and hydraulic holddown at 3683'. Spotted 150 gallons gel block and pressure to 2000#. Treated perforations in 5-1/2" casing from 3708-3718' with 500 gallons 15% NE acid. Injection rate 71 gallons per minute. Pulled tubing, packer and holddown.
6. Ran 2-3/8" tubing, rods and pump. Tested well. Pulled rods, pump and tubing. Ran 2-3/8" tubing with 5-1/2" cement retainer at 3690'. Tested casing and retainer with 1000#, OK. Squeeze cemented thru perforations in 5-1/2" casing from 3708-3718' and 3725-3748' with 250 sacks cement. Maximum Pressure 2800 #. Pulled tubing. WOC.
7. Ran 2-3/8" tubing with 4-3/4" bit and drilled cement and retainer from 3683-3734'. Pulled tubing and bit.
8. Perforated 5-1/2" casing from 3696-3702, 3708-3718' and 3724-3732' with 4, 1/2" jet holes per foot. Ran 120 joints 2-3/8" tubing with packer at 3651' and hydraulic holddown at 3649'. Washed perforations in 5-1/2" casing from 3696-3732' with 500 gallons mud acid. Swabbed. Treated formation thru perforations in 5-1/2" casing from 3696-3732' with 1000 gallons 15% NE acid. Injection rate 22 gallons per minute. Swabbed and well kicked off.