

Plugged back, perforated 7" casing and acid treated as follows:

1. Pulled rods, pump and tubing. Ran steel line measurement, found cavings at 3885'. Ran Gamma Ray Neutron survey.
2. Plugged back from 3885-3850' with 63 gallons Calseal, plugged back to 3823' with 58 gallons Hydromite.
3. Ran 121 joints 2-3/8" tubing set at 3814'. Swabbed. Pulled tubing. Ran Gamma Ray Neutron survey. Set 7" cement retainer at 3744'. Ran 2-3/8" tubing and engaged retainer; squeezed 102 sacks cement. Maximum Pressure 3000#. Pulled tubing.
4. Ran 2-3/8" tubing with HRC tool and located leak in 7" casing at 1019'. Pulled tubing and HRC tool. Perforated 7" casing at 1100' with 4 1/2" holes. Set 7" cement retainer at 984'. Pumped 224 sacks cement and circulated out 9-5/8" - 7" annulus.
5. Ran 2-3/8" tubing with bit, drilled cement from 948-983', drilled cement and retainer to 1125'. Tested casing with 500#, OK. Drilled to 3744' and circulated. Pulled tubing and bit.
6. Perforated 7" casing from 3735-3743' with 4, 1/2" jet holes per foot. Ran 118 joints 2-3/8" tubing with packer at 3719' and hydraulic holddown at 3717'. Swabbed dry. Treated open hole formation thru perforations in 7" casing from 3735-3743' with 500 gallons mud acid. Swabbed and well kicked off.