

Repaired 5-1/2" casing leak, plugged back and fracture treated
as follows:

1. Pulled tubing and packer. Ran steel line measurement and found cavings at 3703'. Cleaned out from 3703-3715' with sand pump.
2. Plugged back to 3705' with 8 gallons Hydromite. Ran 2-7/8" tubing with formation packer at 3620'. Tested open hole formation from 3620-3705' with 5300 gallons Viscofrac with 1# sand per gallon. Injection rate 11.3 bbls per minute. Pulled tubing and packer.
3. Ran 2-3/8" tubing and Hookwall packer and found 5-1/2" casing leak at 535'. Swabbed dry.
4. Pulled tubing and packer. Ran bridge plug on wire line at 3540'. Ran HHC tool and tested casing at 924' with 400#, OK. Perforated 5-1/2" casing at 1100" with 2 jet holes. Ran 2-3/8" tubing with cement retainer at 1066'. Cemented with 612 sacks cement, circulated out bradenhead.
5. Ran 2-3/8" tubing with 4-3/4" bit and drilled cement from 453-1066'. Drilled cement and retainer to 1100'. Drilled cement to 3540', tested 5-1/2" casing with 400# for 30 minutes, No drop in pressure. Drilled bridge plug at 3540' and cleaned out to 3705'. Pulled tubing and bit. Ran 2-3/8" tubing with Hookwall packer at 3500'. Swabbed and well kicked off.

