

September 24, 1997

**Queen Com #1
Sec 20L-T11S-R33E
Lea County, NM
Plug Back Permo Penn/Test San Andres
AFE #**

Casing: 4 1/2", 11.6# J-55 & N-80 @ 10350'. Cmt w/500 sx.
8 5/8" 24 & 32# J-55 @ 3735'. Cmt w/200 sx.
Tubing: 2 3/8" 4.7# N-80 @ ±9550'. Stuck @ 6330'.
Perforations: 8575-10256' OA @ intervals.

Workover Procedure:

1. MIRU. NDWH. NU BOPE. PU 2 3/8" full drift overshot and latch onto tbg @ 2537'.
2. RU wireline. Cut off tbg @ 6275'. Tbg stuck @ 6330'. TOH. Run CBL w/VDL from 6000' – 3700'. Correlate to Accoustic Log dated 7-24-68.
3. PU bit and scraper and TIH to 6275'. TIH w/cmt retainer and set @ 6275'. Establish pump rate down past tbg fish. Slurry volume may have to be adjusted based on pump rate/pressure. Abandon Permo Penn zone by pumping an estimated 318 cu. ft. of cement down past fish. Estimated volume of 4 1/2' csg from 6275-10256'.
4. Sting out of retainer. Dump 7 1/2 sx on top of retainer. TOH.
5. Based on CBL, squeeze holes may be necessary. Shoot 4 JSPF at 4242' and 4560'. Correlate to Accoustic Log dated 7-24-68.
6. PU pkr and TIH to 4200'. Set pkr and pressure test csg to 500 psi. Set pkr @ 4500' and attempt to break circulation between squeeze holes. If circulation can be established, obtain pump rate/pressure.
7. If circulation is established, TOH and PU cmt retainer. Set CR @ 4500'. Based on pump rate/pressure, squeeze cement out sqz holes @ 4500'.
8. If circulation cannot be established. Squeeze holes @ 4560' under pkr. Pull up and squeeze holes @ 4242' under pkr.
9. Drill out squeeze holes and pressure test to 500 psi.
10. Perforate holes: 4374', 4376', 4389', 4425', 4435-39', 4442', 4449' at 2 JSPF with 3 1/8" csg guns, 16 gram charges. Correlate to Accoustic Log dated 7-24-68.
11. TIH w/pkr and set @ 4300'. Acidize with 1000 gal. 15% mud clean out acid and additives. Swab back load.
12. Based on swab tests, TIH with appropriate production equipment. Production test well.