

WORK PROCEDURE

A.F.E. NO. 330

David Fasken-----Indian Hills Unit Well No. 7-----Indian Basin (Morrow)  
Eddy Co., New Mexico

1. Move in and rig up deep well service unit.
2. Kill well with 3% KCl water.
3. Install B.O.P.'s.
4. Pull and stand tubing in doubles (305 jts., 9529.59', 2-3/8", N-80 EUE, 8rd with slim hole couplings).
5. Run 4½" gauge ring and junk basket on sand line to 9500 feet (D.D. 4½" 11.60#/ft. = 3.875").
6. Run Howco 4½" retrievable bridge plug and R.T.T.S. on 2-3/8" tubing, set retrievable bridge plug at 9300 ft.
7. Pull R.T.T.S. up to 9250 ft., set and test to 2000 psig.
8. Release R.T.T.S. and circulate 3 sacks of 20/40 frac sand to top of retrievable bridge plug.
9. Pull R.T.T.S. up to 8000', set and test 4½" casing for hole, search up hole for casing leak estimated to be between top of cement at 7620' and about 4000 ft.
10. When casing leak is pin pointed, patch by circulating and/or squeezing a slurry of Class "C" or Class "H" cement with 5 lbs. salt per sack and 6-8 lbs. No. 3 sand per sack at a slurry weight of 15-16 lbs. per gallon.
11. Pull tubing and R.T.T.S.
12. Rig up reverse circulating unit and drill cement out of casing.
13. Test casing patch to 1500 psig.
14. Re-cement if necessary.
15. Lower tubing 1500 feet below casing patch.
16. Swab fluid out of tubing and tubing-casing annulus to some depth below the casing patch.
17. Check fluid level for possible fluid entry after well is idle overnight.