

RECOMMENDED DRILLING & COMPLETION PROCEDURE

A.F.E. NO. 309

David Fasken ----- MOBIL "10" FEDERAL NO. 1 ----- Eddy County, N.M.

1. Drill 17-1/2" hole to 300'.
2. Set 13-3/8" casing at 300', cement to surface and install 12" x 3000 PSI W.P. casinghead.
3. Drill 12-1/4" hole with water to 3000', control seepage with paper. Dry drill if complete loss of returns is experienced.
4. Load hole with 34 sec. viscosity mud at 3000', if hole is showing seepage.
5. Set and cement 8-5/8" casing at 3000' with sufficient cement to circulate. (Estimate 900 sxs. "Halliburton-Lite," 1/2# flocele, slurry wt. 12.8#/gal. + 200 sxs. Incor Neat with 2% CaCl, slurry wt. 14.8#/gal.). W.O.C. 24 hrs. Install 12" - 3000 PSI W.P. X 10" - 3000 PSI W.P. spool with secondary seal and bit guide, choke manifold, B.O.P., and Hydril.
6. Test casing, casing spool, B.O.P., and choke manifold to 3000 psig with Yellow Jacket. Install P.V.T. equipment and flow sensor.
7. Drill 7-7/8" hole to a total depth of 10,400' using water to drill to 6500', use 5% KCl brine to 9700', mud up with polymer starch mud with 8.7#/gal., 45 sec. viscosity, 10 cc water loss. At 9700' Increase viscosity as necessary to maintain hole to total depth.
8. Drill stem test all shows.
9. Run logs (Combination CNL-FDC w/Gamma Ray, DLL, and Dip Meter).
10. Set and cement 4-1/2" oil string (resin coated and centralized through pay zone) with 450 sxs. Class "H" cement with 5.4# KCl and 0.8% Halad-22. Pump plug down with 5% KCl packer fluid. Run temperature survey to locate cement top.