

Recommended Drilling and Completion Procedure

**Barbara Fasken-----Mobil "10" Federal No.1-----Indian Basin (Strawn) Field
Lea County, NM**

1. Prepare location for drilling operations.
2. Dig out to 8-5/8" casing stub. Tap into casing using a 1" collar welded onto casing cap: Drill into casing through collar using an 1/8" bit lubricated under motor oil.
3. Bleed trapped pressure from casing, cut-off stub and weld on 8-5/8" x 11" 3000 psi bradenhead.
4. MI and RU Workover Rig.
5. NU 11" x 5000 psi BOP stack with Hydril. Pressure test stack to 2000 psi using mud pump.
6. RIH with 7-7/8" Hughes ATJ-2 bit, 10 4-1/8" drill collars and 2-7/8" 10.40 # drill pipe. Tag intermediate shoe plug at 2950'.
7. POH and hydrotest 200' of 8-5/8" casing to 2300 psi, BOP, choke manifold, floor safety valves to 3000 psi. Pressure test Hydril to 1500 psi.
8. TIH and drill out cement plugs as follows:
 - Plug No.1 2950' - 3050'
 - Plug No.2 4200' - 4300'
 - Plug No.3 5350' - 5500'
 - Plug No.4 7350' - 7500'
 - Plug No.5 8556' - 8706'
 - Plug No.6 9188' - 9338'
9. Circulate and condition hole.
10. POW and lay down drill pipe, drill collars and bit.
11. RU casing crew and pick-up machine. Run 4-1/2" casing to 9450' (resin coated and centralized through pay zone) and cement with 1000 sx Class "H" containing 3# KCl/sx, 0.8% Halad-22A, and 0.4% CFR-3 (s.w. 15.6 ppg, yield 1.18 cuft/sx).
12. Set slips, cut-off, and nipple down BOP stack.
13. Install 11" x 7-1/16" 3000 psi tubing head complete with secondary seal and bit guide and flow tree.