

ellwether Exploration, Inc.
Spur 11 State Com #1
Drilling & Completion Procedure

1. Survey and stake location
2. Prepare location, access roads, reserve pits, etc. Establish water source, drill rat hole/mouse hole/conductor as required.
3. Mobilize rig and erect same.
4. Mix spud mud.
5. Spud in and drill 14-3/4" hole to 350-400'
6. Run 11-3/4" conductor and cement same.
7. Drill out with 11" bit to approximately 3,000'. Have mud loggers rigged up by 1400'.
8. Condition hole and run 8-5/8" casing.
9. Cement same with +/- 700 sx Class C.
10. Nipple up 11" bradenhead, 11" BOP stack, and test same.
11. Drill out and test casing shoe to 11.5 ppg. Drill ahead to TD of +/- 12,000'. Be prepared for possible open hole DST intervals in Glorietta, Wolfcamp, Strawn/Attoka, and Morrow formations.
12. Condition hole and log with Platform Express, possible NMR over the bottom 3000'.
13. If commercially productive, condition hole for casing.
14. LDDP.
15. RU casing crews and run 5-1/2" 17.0 ppf N-80 casing.
16. Cement same based on caliper log and log derived integrated hole volume. Cement slurry should be designed to be at least 500' above the top pay zone. Displace cement with 3% KCl water.
17. ND BOP's/ NU tubing head and test same. Install dry hole tree and release drilling rig.
18. Mobilize logging truck and run GR-CBL-CCL-VDL. Evaluate logs for isolation.
19. Based on open hole and cased hole log evaluations, a completion will be designed. The completion will probably require a completion rig and will include fracture stimulation.