**Completion Procedure**

**Note: This well has 5 ½ 15.5# casing set @ 6619’.**

1. MIRU completion rig and 2 7/8” tubing. Drill out DV tools and clean out to PBTD (Est 6535’), circulate hole clean, trip out, load hole, run radial CBL, pressure test casing, trip in with tubing and swab down hole to 5300’. Rig down.
2. MIRU completion rig and two 500 bbl frac tanks.
3. Perforate Granite at 6510-6525 at 4 SPF with casing gun.
4. Run tubing and packer. Set packer at 6470’ and swab test. Obtain fluid samples and measure static fluid level. Depending on swab rates may acidize.
5. Attempt to pump water into granite at different rates and pressures.
6. Trip out with tubing and packer
7. Set CIBP at 6460’ and dump 2 SX cement.
8. Perforate Granite at 6375-6395 at 4 SPF with casing gun.
9. Run tubing and packer. Set packer at 6340’ and swab test. Obtain fluid samples and measure static fluid level. Depending on swab rates may acidize.
10. Attempt to pump water into granite at different rates and pressures.
11. Trip out with tubing and packer
12. Set CIBP at 6360’ and dump 2 SX cement.
13. Perforate lower Arbuckle dolomite at 6284-6300 at 4 SPF with casing gun.
14. Run tubing and packer. Set packer at 6240’ and swab for 8 hours. Depending on swab rates may acidize. Obtain fluid samples and measure static fluid level.
15. TOH with tubing. TIH with tubing and pressure recorder below packer. Set packer at 6240’. Rig down.
16. 4 days after Patterson step rate test, perform step rate injectivity test and fall off test as follows:
17. Move in 2 additional frac tanks (now 4 total). Fill with field brine water.
18. Move in pressure pump trucks and tie onto 2 7/8” tubing.
19. Pump into formation at series of increasing rates as follows: 2.5 bbl/minute for 10 minutes; 5 bbl/minute for 10 minutes, 10 bbl/minute for 10 minutes, 15 bbl/minute for 10 minutes. Shut down pumps for 30 minutes. Pump 15 bbl/minute for 60 minutes. Shut down pumps and wait 30 minutes with no activity or noise to let pressure decay away quietly. Then rig down pumps and move off off location. Carefully record all rates and pressures. All shut downs should be hard shut downs with valves closed so well can not pull fluid into it on a vacuum.
20. After 10 days, rig up and pull tubing and pressure recorders. Rig down.