

F Wilson 19
API 05-081-05562**Plugging Procedure**

1. Move in and rig up a contract workover rig with pipe racks, catwalk, rig pump and rig tank, and a 200 bbl returns tank for cement returns.
2. Move in and spot one 400 bbl tank and fill with fresh water.
3. Lay flow lines from the wellhead to the rig tank.
4. Check and record tubing pressure and casing pressure. Bleed-off any pressures to rig tank.
5. Pump 20 bbl fresh water down the tubing for well control.
6. Remove upper wellhead. Install a 7-1/16" 5000 psi hydraulically operated double gate BOP equipped with 2-3/8" pipe rams in the top gate and blind rams in the bottom gate. (Crossover spool for a 2k 6" tubing head will be needed.) Function test both the blind and pipe rams. Hook up a flow line from the BOP to the rig tank.
7. Prep to pull tubing. Pick up and un-land tubing
8. POOH standing back.
9. Pick up a 4-3/4" Bit and casing scraper dressed for 5-1/2" 15.5# casing.
10. TIH with bit and scraper to 2,324' & pump 12 bbl down tubing.
11. Lay down 4 jts, POOH standing back remaining tubing.

Plug 1 (Squeeze Wasatch from 2,271"-2,324') cement yield assumed for all plugs is 1.15 ft3/sk.

12. Pick up a CICR dressed for 5-1/2" 15.5# casing and TIH. Set CICR @ 2,221' or \approx 50' above the top perforation.
13. Rig up cementers and establish an injection rate and pressure through the CICR. Sting out of the CICR. Mix 60 sacks (\approx 12.3 bbl) of cement and displace to end of tubing. Note tubing volume @ 2,221' is \sim 8.6 bbl.
14. Sting into the CICR and squeeze the perforations with 20 sacks (\approx 4.1 bbl) of cement below the CICR.
15. Sting out and POOH slowly to 2,159'. Reverse out cement leaving 60' of cement on top of the CICR.

Spacer 1 (~2,159' – Surface~)

16. Mix and spot 9 ppg. Poz Gel from 2,159' to Surface' (\approx 47.9 bbl).
17. POOH laying down remaining tubing.

Plug 2 (Surface Plug)

18. Rig up wire-line RIH with 3-1/8" casing gun. 4SPF and perforate casing 50' below shoe at 145'
19. POOH with wire-line. Close blind rams and attempt to circulate up 9-5/8" x 5-1/2" annulus.
(10.2 Bbl.) Circulate well until hole clean.
20. Mix and pump 85 sks (17.4 bbl) of 15.8 ppg G cement and circulate cement down production until good cement returns are seen up surface casing annulus.
21. Nipple down the BOP and remove the tubing spool.
22. Rig down and move off all rig and rental equipment.
23. Cut off casing head 4' below ground level.
24. Install a regulation dry hole marker on casing stub. Note the GPS coordinates of the wellbore location for future reference.
25. Backfill around the dry hole marker.
26. Reclaim location per COGCC requirements.