

## Whittemore 7-28A P&A (75374)

1. Call foreman or Lead Operator before rig up to isolate and remove automation and production equipment. Install fence if needed.
2. MIRU slickline services & VES. Pull bumper spring, tag bottom (Gyro requested 12/19/2013).  
RDMO SL.
3. Provide notice to COGCC prior to MIRU per Form 6 COA.
4. Notify IOC when rig moves on location to generate work order for flowline removal and one call for line locates.
5. Prepare location for base beam rig.
6. MIRU WO rig. Kill well; circulate as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
7. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~250sx for top plug; ~275 sx for Sx/Sh plug and 30 sx for NB/CD plug).
8. TOOH and stand back 2-3/8" TBG.
9. MIRU wireline services. RIH gauge ring for 4-1/2" casing to 7620'
10. PU 4-1/2" CIBP and RIH to 7610', Set CIBP. Note: PT CIBP to 1000 psi.
11. Dump bail 2 sacks of cement on top of CIBP at 7610'.
12. PU 4-1/2" CIBP and RIH on wireline to 6860'. Set CIBP. Note: PT CIBP to 1000 psi. RDMO W/L.
13. RIH on 2-3/8" TBG to 6860'.
14. Initiate circulation using water containing biocide. Note rate and pressure.
15. MIRU cementing services. Pump 30 sx of 1:1:3 'Poz:G:Gel' + 20% silica flour +0.4% CFL-2 + 0.1%SMS + 0.05%CR-4 Density 13.5 ppg Thickening Time : 4:19 at 200 F, Yield 1.66 cuft/ sk.
16. PUH 18 stands. Circulate (TBG Vol + Excess) to CLR TBG. RD cementing services

17. Load hole and circulate with 9.0 ppg mud containing biocide.
18. TOOH w/ TBG. SB with 70 stds of TBG (4240'). LD remainder
19. RU wireline services. PU two 1' 3-1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 5220' and 4200'. RD wireline
20. PU 4-1/2" CICR and RIH on 2 3/8" production tubing to 4240'. Set CICR.
21. Initiate circulation through CICR using water containing biocide.
22. RU cementing services. Preflush with 5 bbl H<sub>2</sub>O, 20 bbl of sodium metasilicate, 5 bbl H<sub>2</sub>O.
23. Pump 275 sx of 1:2:3 'Poz:III: Gel' + 3% (BWOW) KCl +1% SMS +0.4% CR-4 +0.2% SPC-2 + 2lb/sk PS Flake ; Density = 12.5 ppg, Water Requirement = 10.52 gal/sk , Yield = 1.93 cuft/sk , Thickening Time = 3:12 at 160 F. Cement from 5220' to 4200'.
24. Underdisplace by 3 BBL cement. Unsting from CICR, dump 3 BBL remaining on top of CICR.
25. PUH 6 stands. Circulate 9.0 ppg mud with biocide to CLR TBG.
26. P&SB 25 stands of TBG (~1540') and WOC for 4 hrs. RD cementing services.
27. RU wireline services. Crack closest coupling at +/- 1440' or shoot off. RD wireline.
28. Circulate with mud w/ biocide.
29. NDBOP, NDTH.
30. NU BOP on casing head. Install 4-1/2" pipe rams.
31. TOOH with 4-1/2" casing and lay down.
32. RIH with 2-3/8" TBG into casing stub to 1540'.
33. RU Cementing services. Spot 250 sx of Type III + 0.2 % SPC 02 ; Density 14.2 ppg , Water Requirement = 7.32 gal/sk ; Yield = 1.46 cuft/sk ; Thickening Time = 2:49 at 80 F. Cement from 1540' to 715' .
34. PUH & circulate 9.0 PPG mud w/ biocide to clear TBG. TOOH. WOC 4 hrs
35. TIH and tag cement plug. If plug top is below 715', top as necessary.

36. MIRU wireline services. PU 8-5/8" CIBP and RIH to 100'. Set CIBP. Pressure test CIBP to 1000 psi for 15 minutes. If plug tests, RDMO wireline and WO rig.
37. Wellsite supervisor turn all paper copies of cementing reports/invoices and logs in to Sabrina Frantz. NOTE: During the job, wellsite supervisor should instruct the logging and cementing contractors to e-mail all logs, job reports/invoices to Sabrina Frantz.
38. Have excavation contractor notify One-Call to clear for excavating around wellhead and flowline removal.
39. Excavate hole around surface casing of sufficient size and depth to allow welder to cut off 8-5/8" surface casing and at least 5' below ground level.
40. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
41. MIRU ready cement mixer. Use 4,500 psi compressive strength redi-mix cement (sand and cement only, no gravel) Fill STUB. RDMO cement services.
42. Have welder spot weld steel marker plate on top of surface casing. (Note: marker shall be labeled with well name and number, legal location (¼ ¼ description) and API number.
43. Properly abandon flowlines as per Rule 1103.
44. Have excavation contractor back fill hole with native material. Clean up location and have leveled.
45. Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.