

PLUG and ABANDONMENT PROCEDURE

UPRC 33-5J

Step Description of Work

1. Provide 48 hour notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Notify Automation Removal Group at least 24 hours prior to rig move. Request they catch and remove plunger, isolate production equipment, and remove any automation prior to rig MIRU.
2. MIRU Slickline and VES. Pull bumper spring and tag bottom. Record tag depth in Open Wells. Well does not have gyro. Run gyro to 7200', making stops every 100'. RDMO Slickline and VES.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. Check and record bradenhead pressure. If bradenhead valve is not accessible, re-plumb so that valve is above GL. Blow down bradenhead and re-check pressure the next day. Repeat until pressure stays at 0 psi.
5. MIRU WO rig. Spot a min of 25 jts of 2-1/16" 3.25# J-55 EUE tbg. Kill well as necessary biocide treated fresh water. ND WH. NU BOP. Unland tbg using unlanding joint and LD.
6. TOOH and SB 6940' 2-1/16" tbg, LD remaining tbg.
7. PU and TIH with (3-1/2", 7.7#) Bit and Scraper on 2-1/16" tbg to 6940'. TOOH, SB 6930' 2-1/16" tbg and LD remaining tbg and bit and scraper.
8. MIRU Hydrotester. PU (3-1/2", 7.7#) hydraulically-set CIBP and TIH while hydrotesting to 3000 psi to +/- 6930' to abandon the Niobrara/Codell perfs. RDMO Hydrotester.
9. Hydraulically set CIBP at +/- 6930'. Release tbg from CIBP. Load hole with biocide treated fresh water and circulate all gas from well. PT CIBP to 1000 psi for 15 minutes.
10. MIRU Cementers. Niobrara/Codell Balance Plug: Pump 15 sxs (24 cf) 15.8 ppg & 1.55 cf/sk. Volume based on 400' inside 3-1/2" production casing. Cement will be from 6930' – 6530'. RD Cementers.
11. Slowly pull out of the cement and PUH to 6000'. Reverse circulate tubing clean to ensure no cement is left in the tubing.
12. LD tbg while PUH to 4670'.
13. Establish circulation to surface with biocide treated fresh water.
14. RU Cementers. Pump Sussex Balance Plug: Pump 30 sx (36 cf), assuming 15.8 ppg & 1.17 cf/sk. Volume is based on 540' inside 3-1/2" production casing with no excess. Cement will be from 4670' – 4130'. RD Cementers.
15. Slowly pull out of the cement and PUH to 3630'. Reverse circulate to ensure no cement is left in the tbg.
16. WOC per cement company recommendation. TIH and tag cmt. Cement top needs to be at or above 4137' (200' above the SX top at 4337'). Call Engineering if tag is lower than 4137'.
17. TOOH and SB 1380' 2-1/16" tbg, LD remaining tbg.
18. MIRU WL. RIH and jet cut 3-1/2" casing at 1280'. RDMO WL.
19. Attempt to circulate with biocide treated fresh water to remove any gas.
20. ND BOP. ND TH. Un-land casing using a casing spear, not a lifting sub. Max pull shall be 100,000#. If unable to unland, contact Engineering.
21. Install BOP on casing head with 3-1/2" pipe rams.
22. TOOH and LD all 3-1/2" casing. Remove 3-1/2" pipe rams and install 2-1/16" pipe rams.
23. RIH with 2-1/16" tbg to 1380'.
24. Establish circulation with biocide treated fresh water and pump one hole volume (110 bbls).

Engineer: Samantha Tran
Cell: 832-540-0209

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25. RU Cementers. Pump Stub Plug: Pump 10 bbls (min) SAPP, followed by 5 bbls fresh water spacer. Pump 350 sx (406 cf) with 0.25 lb/sk Polyflake, 15.8 ppg & 1.16 cf/sk. Volume is based on 100' in 3-1/2" production casing with no excess, 553' in 9.5" OH w/ 20% excess factor, and 200' in 8-5/8" surface casing with no excess. The plug will cover 1380' – 527'. RDMO Cementers.
26. Slowly pull out of the cement and PUH to 100'. Reverse Circulate using biocide treated fresh water to ensure the tubing is clean.
27. WOC per cement company recommendation. TIH and tag cement. Cement top needs to be at or above 677' (50' above OH TOC within surface casing at 727'). Call Engineering if tag is lower than 677'. TOOH.
28. MIRU WL. PU and RIH with (8-5/8", 23#) CIBP to 80'. RDMO WL and WO rig.
29. Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hours of completion of the job.
30. Supervisor submit paper copies of all invoices, logs, and reports to Platteville Engineering Specialist.
31. Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
32. Capping crew will set and secure night cap on 8 5/8" casing head, restrain the casing head, pressure test CIBP to 500 psi with hydrotest pump, then remove night cap and casing head restraints.
33. Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
34. Welder cut casing minimum 5' below ground level.
35. Fill casing to surface using 4500 psi compressive strength cement (NO gravel).
36. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
37. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
38. Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
39. Back fill hole with fill. Clean location, and level.
40. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.