

PLUG and ABANDONMENT PROCEDURE

SCHEIDT STATE VV 16-06

Step	Description of Work
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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. Run VES gyro survey making sure to taking readings every 100' to bottom. 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 Integral joint tbgs. Kill well as necessary using biocide treated fresh water. ND WH. NU BOP. Unland tbgs using unlanding joint and LD.
6. TOO H and SB all 2-1/16" tbgs.
7. PU and TIH w/ (3-1/2", 7.7#) bit and scraper to 7650. TOO H.
8. MIRU WL. PIRIH w/ (3-1/2", 7.7#) CIBP on WL and set at 7620'. POOH. RDMO WL.
9. TIH with 2-1/16" tbgs to 7620'. Load hole with biocide treated water and circulate all gas out of hole. PT csg and CIBP to 1000psi.
10. MIRU Cementers. **Niobrara/Codell Balance Plug:** Pump 25 sxs (62 cf) 15.8 ppg & 1.53 cf/sk. Volume based on 680' inside 3-1/2" production casing with no excess. Cement will be from 7620 – 6940. RD Cementers.
11. Slowly pull out of the cement and PUH to 6400. Reverse circulate tbgs clean to ensure no cement is left in the tbgs.
12. TOO H and SB 1560 2-1/16" tbgs, LD remaining tbgs.
13. MIRU WL. PIRIH w/ (3-1/2", 7.7#) CIBP on WL and set at 4400. POOH.
14. RIH and dump bail 2sxs on top of CIBP at 4400. POOH.
15. RIH and jet cut 3-1/2" casing at 1460. RDMO WL.
16. Attempt to circulate with biocide treated fresh water to remove any gas.
17. ND BOP. ND TH. Un-land casing using a casing spear, not a lifting sub. Rig max pull shall be 100,000#. Max pull over string weight shall be 50,000#. If unable to unland, contact Engineering.
18. Install BOP on casing head with 3-1/2" pipe rams.
19. TOO H and LD all 3-1/2" casing. Remove 3-1/2" pipe rams and install 2-1/16" pipe rams.
20. TIH with 2-1/16" tbgs to 1560.
21. Establish circulation with biocide treated fresh water and pump one hole volume (100 bbls).
22. RU Cementers. **Pump Stub Plug Part 1:** Pump 10 bbls (min) SAPP and 5 bbls fresh water spacer followed by 200 sx (203 cf) .25lb/sk polyflake, 15.8 ppg, & 1.5 cf/sk. Volume is based on 100' in 3-1/2" production casing with no excess, 350' in 7-7/8" bit size OH with 100% excess. This part of the plug will cover 1560 – 1110. RDMO Cementers.

Engineer: Jacob Roland

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23. Slowly pull out of the cement and PUH to 500'. Reverse circulate using biocide treated fresh water to ensure the tbg is clean. WOC per cement company recommendation.
24. TIH to 1110 to tag stub plug part 1. Leave tbg at depth of tag in preparation for stub plug part 2.
25. RU Cementers. **Pump Stub Plug Part 2:** Pump 10 bbls (min) SAPP and 5 bbls fresh water spacer followed by 170 sx (203 cf) .25lb/sk polyflake, 15.8 ppg, & 1.5 cf/sk. Volume is based on 350' in 7-7/8" bit size OH with 100% excess, and 200' in 8-5/8" surface casing with no excess. This part of the plug will cover 1110 – 561. RDMO Cementers.
26. Slowly pull out of the cement and PUH to 100'. Reverse circulate using biocide treated fresh water to ensure the tbg is clean. WOC per cement company recommendation.
27. MIRU WL. RIH and tag cement. Cement top needs to be at or above 711 (50' above surface casing shoe at 761). Call Engineering if tag is lower than 711. POOH.
28. RIH (8-5/8", 24#) 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.