

Engineer: David McDaniel
Cell Phone Number: 970-515-1532

PLUG and ABANDONMENT PROCEDURE

ARISTOCRAT 41-9 1

Description

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. Pull production equipment and tag bottom. Record tag depth in Open Wells. Gyro was run on 11/12/14. RDMO Slickline.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. "Verify COAs before RU. Verify Form 17 (State Bradenhead Test) has been run within 60 days of RU.
5. Note: A good PT has less than 10% loss in pressure and stabilization at the end of the test. Test can be extended longer in time if need be. Contact Foreman and Engineer to confirm proceeding after pressure test."
6. Upon RU, 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.
7. MIRU WO rig. Kill well as necessary using biocide treated fresh water. Verify BOP and wellhead rating, inspect for appropriate API standards, pressure test BOP according to VWP BOP testing guidelines. ND WH. NU BOP. Unland tbg using unlanding joint and LD.
8. TOOH and SB 4360' of 2-3/8" tbg. LD remaining 2-3/8" tbg.
9. PU and TIH with (5-1/2", 15.5#) Bit and Scraper on 2-3/8" tbg to 4360'. TOOH and SB 4350' of 2-3/8" tbg. LD remaining tbg and Bit and Scraper.
10. MIRU WL. PU and RIH with (5-1/2", 15.5#) CIBP and set at +/- 4350' (no CCL coverage here). POOH. RDMO WL.
11. TIH with 2-3/8" tbg to 4350' Load hole with biocide treated fresh water and circulate all gas out of well. PT CIBP to 500 psi for 15 minutes. TOOH and SB 2-3/8" tbg.
12. MIRU WL. RIH and run CBL from 4350' to surface. Forward CBL to Platteville office.
13. PU and RIH with (5-1/2", 15.5#) CIBP and set at +/- 4350' (no CCL coverage here). POOH. RIH and dump 4 sx cement on CIBP. POOH.
14. RIH and jet cut 5-1/2", 15.5# casing at 2500'. RDMO WL.
15. Attempt to establish circulation and circulate (43 bbl) with fresh water containing biocide to remove any gas.
16. 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.
17. Install BOP on casing head with 5-1/2", 15.5# pipe rams.
18. TOOH and LD all 5-1/2", 15.5# casing. Remove 5-1/2", 15.5# pipe rams and install 2-3/8" pipe rams.
19. TIH with mule shoe and 2-3/8" tubing to 2550'.
20. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes (85 bbl) to circulate all gas out of the well. Contact engineering if evidence of gas migration persists.
21. MIRU cementers. Pump Upper Peirre Plug: Pump 30 sx (8.3 bbl or 47 cf), assuming 14 ppg & 1.55 cf/sk. Volume based on 50' inside 5-1/2", 15.5# production casing with no excess. 57' in 7.875" bit size open hole with 100% excess factor. Cement will be from 2550'-2443'.
22. Pull out of cement at a rate of 1 jt/min. TOOH to 565', LD 2-3/8" tubing.
23. Pump Stub Plug: Pump in 2 stages for a total of 160 sx (44.2 bbl or 248 cf), assuming 14 ppg & 1.55 cf/sk. Stage 1: Pump 110 sx (30.4 bbl or 171 cf). TOOH at 1 jt/min to 208'. Stage 2: Pump 50 sx (13.9 bbl or 78 cf). Volume is based on 118' in 7.875" bit size open hole with 100% excess factor. 447' in the 8-5/8", 24# surface casing with no excess. The plug is designed to cover 565'-0'. Verify and document cement to surface. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.

24. Pull out of cement at a rate of 1 jt/min. TOO, LD all 2-3/8" tbg. Tag cement as needed to verify cement to surface. RDMO WO rig.
25. 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.
26. Supervisor submit paper copies of all invoices, logs, and reports to VWP Engineering Specialist.
27. Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
28. Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
29. Welder cut casing minimum 5' below ground level.
30. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
31. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
32. Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
33. Back fill hole with fill. Clean location, and level.
34. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.