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PLUG and ABANDONMENT PROCEDURE

ADAM FARM 2-4

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. Directional Survey was run on 11/02/09. RDMO Slickline.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. Verify COAs before RU.
5. 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.
6. MIRU WO rig. Spot a min of 25 jts of 2-3/8" 4.7#, J-55, EUE tbg. Kill well as necessary using biocide treated fresh water. ND WH. NU BOP. Unland tbg using unlanding joint and LD.
7. TOO H and SB 7080' 2-3/8" tbg. LD any remainder.
8. MIRU WL. PU and RIH with (4-1/2", 11.6#) gauge ring to 7090'. POOH.
9. PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 7080' (collars at 7062' & 7096'). POOH. RDMO WL.
10. MIRU hydrotesters. TIH with 2-3/8" tbg to 7080' while hydrotesting to 3000 psi. RDMO hydrotesters.
11. Load hole with biocide treated fresh water and circulate all gas out of well. PT CIBP to 1000psi for 15 minutes.
12. MIRU Cementers. Pump Niobrara Balance Plug: Pump 25 sx (39 cf), assuming 15.8 ppg & 1.53 cf/sk. Volume based on 400' inside 4-1/2", 11.6# production casing with no excess. Cement will be from 7080'-6680'. RD Cementers.
13. Slowly pull out of the cement and TOO H. Reverse circulate using biocide treated fresh water to ensure the tubing is clean. TOO H, SB 1070' 2-3/8" tbg. LD remaining tbg.
14. MIRU WL. PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 3925' (collars at 3894' & 3936'). POOH. RIH and dump 2 sx cement on CIBP. POOH.
15. RIH and jet cut 4-1/2", 11.6# casing at 400'. RDMO WL.
16. Attempt to establish circulation and circulate (26 bbl) with fresh water containing biocide 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 4-1/2", 11.6# pipe rams.
19. TOO H and LD all 4-1/2", 11.6# casing. Remove 4-1/2", 11.6# pipe rams and install 2-3/8" pipe rams.
20. TIH with mule shoe and 2-3/8" tubing to 1070'.
21. Establish circulation with biocide treated fresh water and pump one hole-volume (36 bbl).

22. RU Cementers. Pump Stub Plug: 90 sx (135 cf) , assuming 15.8 ppg & 1.5 cf/sk. Volume is based on 670' in 4-1/2", 11.6# production casing with no excess, and 200' in the 8-5/8", 24# surface casing with no excess. The plug is designed to cover 1070'-200'. RDMO Cementers.
23. Slowly pull out of the cement and TOOH to 100'. Reverse circulate using biocide treated fresh water to ensure the tubing is clean. TOOH, LD all 2-3/8" tbg.
24. MIRU WL. Tag cement as needed. RIH 8-5/8", 24# CIBP to 80'. RDMO WL and 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. Capping crew will set and secure night cap on 8-5/8", 24# casing head, restrain the casing head, pressure test CIBP to 500 psi with hydrotest pump, then remove night cap and casing head restraints.
29. Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
30. Welder cut casing minimum 5' below ground level.
31. Fill casing to surface using 4500 psi compressive strength cement (NO gravel).
32. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
33. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
34. Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
35. Back fill hole with fill. Clean location, and level.
36. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.