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PLUG and ABANDONMENT PROCEDURE

FLOYD ADLER GU B TRUE 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 06/13/14. 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 50 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. TOOH and SB all 2-3/8" tbg.
8. PU and TIH with (4-1/2", 10.5#) Bit and Scraper on 2-3/8" tbg to tag sand plug at +/-7500'. TOOH and SB 6860' of 2-3/8" tbg. LD Bit and Scraper and remaining tbg.
9. MIRU WL. PU and RIH with (4-1/2", 10.5#) CIBP and set at +/- 7490'. POOH. RIH and dump 2 sx cement on CIBP. POOH.
10. PU and RIH with (4-1/2", 10.5#) CIBP and set at +/- 6860'. POOH. RDMO WL.
11. TIH with 2-3/8" tbg to 6860' Load hole with biocide treated fresh water and circulate all gas out of well. TOOH and SB 2-3/8" tbg.
12. MIRU WL. RIH and run CBL from 6860' to surface. Forward CBL to Platteville office. Cementing plans may change depending on CBL results. TIH with 2-3/8" tbg to 6860'. PT CIBP to 1000psi for 15 minutes.
13. MIRU Cementers. Pump Niobrara Balance Plug: Pump 25 sx (6.9 bbl or 39 cf), assuming 15.8 ppg & 1.53 cf/sk. Volume based on 400' inside 4-1/2", 10.5# production casing with no excess. Cement will be from 6860'-6460'. RD Cementers.
14. Slowly pull out of the cement. Reverse circulate using biocide treated fresh water to ensure the tubing is clean. TOOH, SB 1985' 2-3/8" tbg. LD remaining tbg.
15. MIRU WL. PU and RIH with (4-1/2", 10.5#) CIBP and set at +/- 3825'. POOH. RIH and dump 2 sx cement on CIBP. POOH.
16. RIH and jet cut 4-1/2", 10.5# casing at 1885'. RDMO WL.
17. Attempt to establish circulation and circulate (100 bbl) with fresh water containing biocide to remove any gas.
18. 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.
19. Install BOP on casing head with 4-1/2", 10.5# pipe rams.
20. TOOH and LD all 4-1/2", 10.5# casing. Remove 4-1/2", 10.5# pipe rams and install 2-3/8" pipe rams.

21. TIH with mule shoe and 2-3/8" tubing to 1985'.
22. Establish circulation to surface with biocide treated fresh water and pump at least three hole-volumes (603 bbl) to circulate all gas out of the well. Contact engineering if evidence of gas migration persists.
23. RU Cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump GAS BLOK Stub Plug: 530 sx (108.6 bbl or 610 cf) TXI cement with 0.25 lb/sk Polyflake, assuming 14 ppg & 1.15 cf/sk. Volume is based on 100' in 4-1/2", 10.5# production casing with no excess, and 100' in 7.88" bit size with 100% excess factor. The plug is designed to cover 1985'-1785'. Notify engineering if circulation is ever lost during job. RDMO Cementers.
24. Slowly pull out of the cement. SB tbg while TOO H to 1285'. Reverse Circulate to ensure no cement is left in the tubing. WOC per cementing company guidelines. Verify that all fluid migration and pressure has been eliminated. Contact engineering if evidence of fluid migration or pressure remains.
25. TIH. Tag Open Hole Plug. TOO H to 1685'. Establish circulation to surface with biocide treated fresh water.
26. ***THE FOLLOWING PLUGS WILL BE PUMPED BACK-TO-BACK***
27. RU Cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump GAS BLOK Open Hole Plug: 440 sx (90.1 bbl or 506 cf) TXI cement with 0.25 lb/sk Polyflake, assuming 14 ppg & 1.15 cf/sk. Volume is based on 935' in 7.88" bit size with 100% excess factor. The plug is designed to cover 1685'-935'. Notify engineering if circulation is ever lost during job. SB Cementers. TOO H to 935'
28. RU Cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump GAS BLOK Shoe Plug: 245 sx (50.2 bbl or 282 cf) TXI cement with 0.25 lb/sk Polyflake, assuming 14 ppg & 1.15 cf/sk. Volume is based on 278' in 7.88" bit size with 100% excess factor, and 202' in the 9-5/8", 36# surface casing with no excess. The plug is designed to cover 935'-455'. Notify engineering if circulation is ever lost during job. RDMO Cementers.
29. Slowly pull out of the cement and TOO H to 100'. Reverse circulate using biocide treated fresh water to ensure the tubing is clean. TOO H, LD all 2-3/8" tbg.
30. MIRU WL. Tag cement as needed. After tagging top of cement, and verifying appropriate coverage above the surface casing shoe, pressure test surface casing to 500 psi and hold for 15 minutes.
31. RIH 9-5/8", 36# CIBP to 80'. RDMO WL and WO rig.
32. 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.
33. Supervisor submit paper copies of all invoices, logs, and reports to VWP Engineering Specialist.
34. Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
35. Capping crew will set and secure night cap on 9-5/8", 36# casing head, restrain the casing head, pressure test CIBP to 500 psi with hydrotest pump, then remove night cap and casing head restraints.
36. Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
37. Welder cut casing minimum 5' below ground level.
38. Fill casing to surface using 4500 psi compressive strength cement (NO gravel).
39. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
40. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
41. Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
42. Back fill hole with fill. Clean location, and level.
43. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.