Engineer: Sterling Metzger
Cell: 330-605-2231

PLUG and ABANDONMENT PROCEDURE

EVERIST 25-10

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 services. Pull bumper spring and tag bottom. Record tag depth in Open Wells. Well was directionally surveyed when drilled. RD slickline.
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. Contact Engineering if pressure does not blow down to 0 and stay at 0.
5. MIRU WO rig. Spot a min of 25 jts of 2-3/8" 4.7# J-55 tbg. Kill well as necessary using clean fresh water with biocide. ND WH. NU BOP. Unland tbg using unlanding joint and LD.
6. TOOH and SB 7230' 2-3/8" tbg.
7. MIRU Wireline. PU and RIH with gauge ring (4-1/2, 11.6#) to 7240'. TOOH.
8. PU and RIH with CIBP (4-1/2", 11.6#) and set at +/- 7230' to abandon the Nio/Codell Perfs. TOOH. RD WL.
9. TIH with 2-3/8" tbg to 7230' while hydrotesting to 3000 psi. Establish circulation with biocide treated fresh water.
10. RU cementers. Pump Niobrara Balance Plug: Pump 25 sxs (39 cf) 15.8 ppg & 1.55 cf/sk. Volume based on 400' inside 4-1/2" production casing. Cement will be from 7230' – 6830'. RD cementers.
11. Slowly pull out of the cement and PUH to 6600'. Reverse circulate tubing clean to ensure no cement is left in the tubing.
12. PU to 4490'. LD remaining 2-3/8" tubing.
13. RU Cementers. Pump Sussex Squeeze: 35 sxs (41 cf) 15.8 ppg & 1.18 cf/sk. Volume is based on 410' inside 4-1/2" production casing with no excess. Cement will be from 4490'-4080'. RD cementers.
14. Slowly pull out of the cement and PUH to 3800'. Reverse circulate to ensure no cement is left in the tbg. TOOH. SB 970' 2-3/8" tbg. LD remaining.
15. RU WL. RIH and cut 4-1/2" casing at 870'. TOOH. RD WL.
16. Establish circulation with biocide treated fresh water and pump one hole volume (185 bbls). If gas is still present continue to pump until gas is completely gone.
17. Un-land casing using a casing spear, not a lifting sub. Max pull shall be 100,000#. If unable to unland, contact Engineering.
18. ND BOP. ND TH. Install BOP on casing head with 4-1/2" pipe rams.
19. TOOH and LD all 4.5" casing. Remove 4.5" pipe rams and install 2-3/8" pipe rams.
20. RIH with 2-3/8" tubing to 970'.
21. RU Cementers. Pump Stub GASBLOK plug 1: 125 sx (244 cf) with 0.25 lb/sk polyflake, 15.8 ppg & 1.16 sc/sk (300' in 7.88" OH with 60% excess factor, and 200' inside 8-5/8" casing) plug will be from 1070'-570'.

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22. Slowly pull out of the mud and PUH to 300'. Reverse circulate tubing clean to ensure no cement is left in the tubing.
23. WOC per cement company recommendation. TIH and tag cement. Cement top needs to be at or above 720' (50’ above the surface casing shoe at 770’). Call Engineering if tag is lower than 720’. TOOH and land tbg.
24. RU WL. PU and RIH 8-5/8" 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 Evans 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” 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.