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PLUG and ABANDONMENT PROCEDURE

YAMAGUCHI 10-27

API: 05-123-21841

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 11/19/14. RDMO Slickline.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. COA: Verify Form 17 (State Bradenhead Test) has been run within 60 days of RU. If Form 17 required sampling, contact Engineering to verify plugging orders before beginning P&A operations.
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. Refer to BOP testing guidelines, fluid barrier management, and tripping best practices as applicable. All wireline operations will need a flanged changeover, WL BOP, Lubricator with an ID to fit the largest OD of the toolstring, and a packoff. Please contact foreman to discuss arrangement of stack, or alternate plan. Contact your foremen with any questions regarding standard operating procedures or any potential deviations.
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 BOP testing guidelines. ND WH. NU BOP. Unland tbg using unlanding joint and LD.
8. TOOH and SB 4100' of 2-3/8" tbg. LD remaining 2-3/8" tbg.
9. MIRU WL. PU and RIH with (4-1/2", 11.6#) gauge ring to 6980'. POOH.
10. PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 6970' (collars at 6952' & 6994'). POOH. RIH and dump 2 sx cement on CIBP. POOH.
11. Load hole with biocide treated fresh water. PT CIBP to 500 psi for 15 minutes. 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 or Engineer to confirm proceeding after pressure test.
12. COA: Confirm and document static conditions in the well before placing the Sussex plug. If there is evidence of pressure or fluid migration at any time after placing the Niobrara plug, contact Engineering.
13. PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 4100' (collars at 4090' & 4132'). POOH. RIH and dump 2 sx cement on CIBP. POOH. RDMO WL.
14. TIH to 4100' and circulate any remaining gas out. TOOH, LD all tbg.
15. MIRU WL. PU and RIH with one 3-1/8" perf gun to 890' at 4', 4 spf, 60 deg phasing. POOH. RDMO WL.
16. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes (125 bbl) to clean up wellbore.
17. ND BOP. ND TH. Install swedge to casing collar.

18. Establish circulation to surface with biocide treated fresh water and pump at least two hole-volumes (125 bbl) to clean up wellbore.
19. COA: Verify and document that all pressure and fluid migration has been eliminated prior to placing the SC shoe plug at 890'. If there is evidence of pressure or fluid migration, contact Engineering.
20. MIRU cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump Stub Plug: Pump 390 sx (85.5 bbl or 480 cf), assuming 15.8 ppg & 1.23 cf/sk. Volume is based on 101' in 7.875" bit size open hole with 100% excess factor. 789' in the 8-5/8", 24# surface casing with no excess, plus 100 sx. Verify and document cement to surface. Collect wet and dry samples of cement to be left on rig. Notify engineering if circulation is ever lost during job.
21. COA: If cement was not circulated to surface, then WOC 4 hours. Tag TOC. TOC must be 0' or shallower. If tag is too deep or there is evidence of pressure or fluid migration, contact Engineering.
22. Top off cement to surface. Circulate clean. RDMO cementers. RDMO WO rig.
23. 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.
24. Supervisor submit paper copies of all invoices, logs, and reports to VWP Engineering Specialist.
25. Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
26. Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
27. Welder cut casing minimum 5' below ground level.
28. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
29. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
30. Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
31. Back fill hole with fill. Clean location, and level.
32. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.