Engineer: David Hasz
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PLUG and ABANDONMENT PROCEDURE

DUANE E NELSON 41-33 (2-68) 1X

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 Slicklineand VES. WELL NEEDS GYRO RUN. Run gyro to 5060', making stops every 100'. RDMO Slickline and VES.
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. TOOH and SB 4535’ 2-3/8" tbg. LD any remainder.
8. PU and TIH with (5-1/2", 15.5#) Bit and Scraper on 2-3/8" tbg to 4890'. TOOH, SB all 2-3/8" tbg. LD Bit and Scraper.
9. MIRU WL. PU and RIH with (5-1/2", 15.5#) CIBP and set at +/- 4880'. POOH. RIH and dump 2 sx cement on CIBP. POOH.
10. PU and RIH with (5-1/2", 15.5#) CIBP and set at +/- 4535'. POOH. RDMO WL.
11. TIH with 2-3/8" tbg to 4535’ 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 4535' to surface. Forward CBL to Platteville office. Cementing plans may change depending on CBL results. RDMO WL. TIH with 2-3/8" tbg to 4535’. PT CIBP to 1000psi for 15 minutes.
13. MIRU Cementers. Pump Sussex Balance Plug: Pump 45 sx (12.3 bbl or 69 cf), assuming 15.8 ppg & 1.53 cf/sk. Volume based on 500’ inside 5-1/2", 15.5# production casing with no excess. Cement will be from 4535'-4035'. RD Cementers.
14. Slowly pull out of the cement and TOOH. Reverse circulate using biocide treated fresh water to ensure the tubing is clean. TOOH to 1085'. LD remaining tbg.
15. Establish circulation to surface with biocide treated fresh water.
16. RU Cementers. Pump Stub Plug: 70 sx (18.8 bbl or 105 cf) , assuming 15.8 ppg & 1.5 cf/sk. Volume is based on 660' in 5-1/2", 15.5# production casing with no excess. The plug is designed to cover 1085'-425'. RDMO Cementers.
17. 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.
18. MIRU WL. Tag cement as needed. RIH 5-1/2", 15.5# CIBP to 80'. RDMO WL and WO rig.

19. 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.
20. Supervisor submit paper copies of all invoices, logs, and reports to VWP Engineering Specialist.
21. Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
22. Capping crew will set and secure night cap on 5-1/2", 15.5# casing head, restrain the casing head, pressure test CIBP to 500 psi with hydrotest pump, then remove night cap and casing head restraints.
23. Excavate hole around surface casing enough to allow welder to cut casing a minimum 5’ below ground level.
24. Welder cut casing minimum 5' below ground level.
25. Fill production and surface casing to surface using 4500 psi compressive strength cement (NO gravel).
26. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
27. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
28. Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
29. Back fill hole with fill. Clean location, and level.
30. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.