

Engineer: David Hasz

Cell Phone Number: 970-371-8820

PLUG and ABANDONMENT PROCEDURE

CHAMPLIN 42-10 4

Description

PUMPING UNIT WELL

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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. Remove any automation prior to rig MIRU.
2. Prepare location for base beam equipped rig. Install perimeter fence as needed.
3. Verify COAs before RU.
4. 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.
5. MIRU WO rig. Spot a min of 25 jts of 2-3/8" 4.7#, J-55, EUE tbg. LOTO Pumping unit. Kill well as necessary using biocide treated fresh water.
6. Unhang rods from pumping unit bridle. ND WH. NU BOP. TOO H and LD rod string.
7. MIRU Slickline and VES. WELL NEEDS GYRO RUN. Run gyro to 5272', making stops every 100'. RDMO Slickline and VES.
8. Unland tbg using unlanding joint and LD. Release tbg anchor. TOO H and SB 4575' 2-3/8" tbg. LD tbg anchor, pump and any remaining tbg.
9. PU and TIH with (4-1/2", 11.6#) Bit and Scraper on 2-3/8" tbg to 4585'. TOO H, SB all 2-3/8" tbg. LD Bit and Scraper.
10. MIRU WL. PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 4575' (collars at ' & '). POOH. RDMO WL.
11. TIH with 2-3/8" tbg to 4575'. Load hole with biocide treated fresh water and circulate all gas out of well. TOO H and SB 2-3/8" tbg.
12. MIRU WL. RIH and run CBL from 4575' to surface. Forward CBL to Platteville office. Cementing plans may change depending on CBL results. RDMO WL. MIRU hydrotesters. TIH with 2-3/8" tbg to 4575' while hydrotesting to 3000 psi. RDMO hydrotesters. PT CIBP to 1000psi for 15 minutes.
13. MIRU Cementers. Pump Sussex 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 4575'-4175'. RD Cementers.
14. 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 1355' 2-3/8" tbg. LD remaining tbg.
15. MIRU WL. RIH and jet cut 4-1/2", 11.6# casing at 1255'. RDMO WL.
16. Attempt to establish circulation and circulate (100 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. TOOH 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 1355'.
21. Establish circulation with biocide treated fresh water and pump one hole-volume (117 bbl).
22. RU Cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump Stub Plug: 340 sx (510 cf) with 0.25 lb/sk Polyflake, assuming 15.8 ppg & 1.5 cf/sk. Volume is based on 100' in 4-1/2", 11.6# production casing with no excess, 616' in 7.88" bit size w/ 100% excess factor, and 204' in the 8-5/8", 23# surface casing with no excess. The plug is designed to cover 1355'-435'. RDMO Cementers. Notify engineering if circulation is ever lost during job.
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", 23# 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", 23# 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.