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SAFETY PREP PROCEDURE - Annular Fill (Bradenhead)

HSR-CANNON LAND 6-3A

Description

1. Well needs a single stage annular fill from 1400' - 500' to mitigate bradenhead issues.
2. Well has gyro survey on 08/31/2011.
3. MIRU Slickline. Pull production equipment and tag bottom. Record tag depth in OpenWells. RD Slickline.
4. Prepare location for base beam equipped rig. Install perimeter fence as needed.
5. 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 25 jts of 2-3/8" 4.7# J-55 tbg and 1400' of 1.66" 2.33# J-55 tbg.
7. Kill well as necessary with biocide treated freshwater. Attach a hardline from the bradenhead/surface casing valve to a flowback tank and blow down any bradenhead pressure. If pressure does not blow down within 1 hour contact engineer, otherwise proceed.
8. ND wellhead. NU BOP.
9. PU 8-10' pup joint with TIW valve on top and screw into the tbg hanger. Unseat and LD the landing joint.
10. MIRU EMI services. EMI 2-3/8" tbg (landed at 7850') while TOO H and tally while standing back. Lay down joints that have greater than 35% penetration or wall loss. Replace all joints that fail EMI testing. Document joint numbers and depth of bad tubing and create a Production Equipment Failure report in OpenWells. RDMO EMI services.
11. PU and RIH with (4.5", 11.6#) Bit and Scraper on 2-3/8" tbg to 6710'. TOO H and SB all 2-3/8" tbg. LD Bit and Scraper.
12. PU 10,000 psi rated from above and below RBP (4.5", 11.6#), retrieving head, and 2-3/8" tbg. Set RBP at +/- 6700'.
13. Release tbg from RBP and circulate all gas out of the hole. Pumping biocide treated freshwater, pressure test RBP and production casing to 1000 psi for 15 minutes. If pressure test passes, proceed; otherwise contact engineering.
14. Dump 2 sx sand on top of RBP. TOO H and SB all 2-3/8" tbg.
15. ND BOP. ND wellhead. Un-land casing using a casing spear, not a lifting sub. Max pull shall be 100,000#. If unable to unland, contact Engineering. NU double entry flange and BOP. Install 1.66" pipe rams.
16. PU 1.66" 2.33# J-55 10 RD tubing and TIH between the 4-1/2" production casing and 8-5/8" surface casing/open hole to 1400' while continuously circulating. Make 2 sweeps of DF 20-20 while TIH. (annular volume ~ 75 bbls @ 1400') if unable to make it to 1400' call Engineering.
17. Circulate with the rig pump to condition the hole or until well is completely dead. Pump a final sweep of DF 20-20 at 1400' (annular volume 75 bbls). Circulate a minimum of 1.5 annular volumes and ensure well is dead. If not able to circulate dead, contact engineering.

18. RU Cementers. Establish circulation and pump 20 bbls (5 bbls water, 10 bbls sodium silicate and 5 bbls water) spacer, 260 sx GasBLOK (301.6 cf, 53.7 bbls) 15.8 ppg 1.16 yield. Calculations based on 639' in annulus between 7.88" bit size and 4.5" production casing with 60% excess and 261' in the annulus between 8-5/8" 24# casing and 4.5" production casing with no excess. Attempt to cement from 1400' - 500'. Plan for 3 hour pump time.
19. TOOH with 1.66" 2.3# J-55 10 RD IJ tubing until EOT is at 425' and LD extra tbg. Circulate with freshwater 1.5 times the hole volume or until returns are clean. RDMO Cementers.
20. TOOH and LD all 1.66" 2.3# tbg. ND BOP and double entry flange. Use 4-1/2" casing spear to re-land 4-1/2" casing. NU WH and BOP. Install 2-3.8" pipe rams. Shut well in and WOC for a minimum of 24 hours.
21. MIRU WL and run CCL-GR-CBL-VDL from +/-6600' (below the original TOC) to surface. If the cement is not at or above 710' (50' inside casing shoe), contact engineer. RDMO WL. In addition to normal handling, of logs/job summaries, email copies of all cement job logs/job summaries and invoices to DJVendors@anadarko.com within 24 hours of the completion of the job.
22. PU and TIH with retrieving head and 2-3/8" tbg.
23. Circulate sand off of RBP. Pressure test casing to 1000 psi for 15 minutes. Latch onto and release RBP at 6700'. Circulate gas out of hole. TOOH and SB all 2-3/8" tbg, LD RBP.
24. TIH with 2-3/8" NC, 2-3/8" XN nipple, and tbg to surface. Land tubing at +/- 7850'.
25. RU rig lubricator. Broach tubing to XN seating nipple. RD rig lubricator. ND BOP.
26. Install 7-1/16" flanged 5000 psi tubing head adaptor with studded top, 2-1/16" flanged 5000 psi master valve, flanged 5000 psi 2-1/16" plunger lubricator (side outlets threaded). Make sure all wellhead valves are rated to 5,000 psi and all nipples are XXH. Document wellhead components in an OpenWells wellhead report.
27. Install 2-1/16" pup joint above the master valve. Pressure test the tubing head from below the tubing head through the master valve to 5,000 psi using hydrotester. If wellhead does not pressure test, replace wellhead/wellhead valves as necessary with 5,000 psi rated equipment.
28. NU WH. RDMO WO rig. Return well to production team.