

PERRIN B 1

1. Gyro ran on 03/05/2012.
2. Call Foreman or Lead Operator at least 24 hr prior to rig move. Request that they catch and remove plunger, isolate production equipment and remove any automation equipment prior to the rig showing up. Install perimeter fence as needed.
3. Provide notice of MIRU to COGCC field inspector as specified in approved Form 6.
4. Notify CDC when rig moves on location to generate workorder for flowline removal and one call for line locates.
5. Prepare location for base beam rig.
6. MIRU WO rig. Kill well using water and biocide. ND wellhead.NU BOP.
7. PUH w/ tbg to break any sand bridges, noting not to exceed the safety tensile load of 1-1/4", 2.30# tbg of 36,770 lbs. (80% of upset joint yield strength).
8. TOOH with 1-1/4" tbg and stand back.
9. MIRU WL.
10. RIH with Junk Basket/Gauge Ring on WL to 8010' in 2-7/8" liner. TOOH with Junk Basket/Gauge Ring.
11. PU and RIH with CIBP for 2-7/8" N-80 liner. Set CIBP at 8010'.POOH. Dump 2 sx of cement on CIBP. Do not pressure test due to SX (4624'-4690') and SN (5094'-5116') perfs.
12. Run CBL from 5172' (Note: 2-7/8" liner top @ 5172") to surface. If current TOC is any lower than 4450' call the Evan's engineer for prog modification. (Forward CBL to a.Leila.shahryari@Anadarko.com)
13. RU cementer. TIH (Hydrotest tbg as TIH) and circulate 32 sx cement (0.0155 bbl/lnt) (Class G w/ 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.15 cuft/sx) to set a balanced plug @ 4900'-5172' (note: 2-7/8" liner top @ 5172'). Circulate wellbore with drilling mud containing biocide. RDMO cementer.
14. PU and RIH with 4.5" CICR on setting tool and 2-3/8" tubing to set CICR at 4450' in 4-1/2" casing. Set CICR and establish injection.
15. RU cementer. Pump 5 bbl water, followed by 20 bbl Sodium Metasilicate ahead of cement, followed by 5 bbl water. Pump 75 sx (25 sx in 0.0155 bbl/lnt + 50 sx for SX squeeze) of cement ("G" w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-30) from 4450'-4690'. Sting out of retainer and dump 2 sx cement on top of retainer.
16. PUH to 4150' (300' above estimated top of cement) with 2-3/8" tubing and circulate conventionally with drilling mud containing biocide until no cement returns to surface. RD cementer.
17. P & SB tubing for next depth (880'), LD remainder.
18. TIH with jet cutter and cut casing at the "closest joint" to 780' (100' below Surface CSG). RDMO WL.
19. ND BOP & tbg head.
20. NU BOP w/ 4-1/2" pipe rams on the 8-5/8" csg head.
21. PU csg. Circulate wellbore with drilling mud. TOOH and LD 4-1/2" csg. If unable to pull production csg contact engineer/COGCC for plugging modification.

22. TIH with tbg open ended to land EOT 880' below production casing stub at 780'.
23. MIRU cementer. Spot 100 sx (0.0155 bbl/lft PC, 7.875" OH, 0.0636 bbl/lft SC & 40% excess) of cement (Type III w/ CaCl₂) from 880' below the 4-1/2" stub to 480' (inside the surface casing) (plug from 880'-480'). TOOH w/ tubing and stand back 480' tbg in derrick. RDMO Cementer.
24. WOC 4 hours or overnight.
25. TIH with tbg and tag cement plug. Record tagging plug in Openwells report. Lay down all tbg.
26. RU WL. Set 8-5/8" CIBP at approximately 100' (inside surface csg). Pressure test CIBP to 1000 psi for 15 min. (If CIBP does not hold contact Evans engineer and do not RDMO WO rig).
27. RDMO WO rig.
28. Wellsite supervisor turn all paper copies of cementing reports/invoices and logs in to Sabrina Frantz.
29. NOTE: During the job, wellsite supervisor should instruct the logging and cementing contractors to e-mail all logs, job reports/invoices to Sabrina Frantz.
30. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
31. Check top of cement inside 8-5/8" surface casing. If cement is not of sufficient height (less than 25' below ground level), place redi-mix cementer on will call.
32. Excavate hole around surface casing of sufficient size and depth to allow welder to cut off 8-5/8" surface casing at least 5' below ground level.
33. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
34. MIRU ready cement mixer. Fill the last 100' inside the 8-5/8" surface casing. Use 4,500 psi compressive strength redi-mix cement (sand and cement only, no gravel) to finish filling surface casing to top of cut off.
35. Have welder spot weld on steel marker plate. (Note: marker shall be labeled with well name and number, legal location (¼ ¼ description) and API number.
36. Properly abandon flowlines as per Rule 1103.
37. Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.
38. Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.