

FEDERAL 6-36 (HSR)

1. Gyro ran on 6/25/13 from 7350' to surface.
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 or BLM Sundry.
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 1-1/2", 2.75# tbg of 35,176 lbs. (80% of upset joint yield strength).
8. TOOH with 1-1/2" tbg and SB.
9. MIRU WL. RIH with Junk Basket/Gauge Ring (2-7/8" csg) on WL to \pm 7200'. TOOH with Junk Basket/Gauge Ring.
10. PU and RIH with CIBP for 2-7/8", 6.5#, J-55 production casing. Set CIBP at 7100' (60' above CN perfs). POOH. Pressure test CIBP to 1000 psi for 15 min. MO WL.
11. TIH with 1-1/2" tbg, hydrotest as TIH, circulate 15 sx of (0.00579 bbl/lnft) (Neat G mixed at 15.8 ppg 1.15 cuft/sx) on top of CIBP to reach an estimated top @ 6770'. Circulate wellbore with min 9.0 ppg drilling mud including biocide.
12. RU WL. Run in hole with free point to cut casing at closest joint to 5700' (100' below base of Shannon). RDMO WL.
13. ND BOP & tbg head.
14. NU BOP w/ 2-7/8" pipe rams on the 8-5/8" csg head.
15. PU csg. Circulate wellbore with min 9.0 ppg drilling mud including biocide. TOOH and LD 2-7/8" csg. If unable to pull production csg contact engineer/COGCC/BLM for plugging modification.
16. RIH w/ 1-1/2" tbg to 5800' (above cut casing at 5700'). Establish circulation.
17. Once pumping rate has been established, pump 5 bbl water, followed by 20 bbl Sodium Metasilicate ahead of cement, followed by 5 bbl water. Spot 650 sx (8.5" caliper & 40% excess) of cement (" Neat G" w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-30) from 4350' and 5700'. Note returns during cement job in OpenWells report.
18. PUH to 4050' (300' above estimated top of cement) with 1-1/2" tbg and circulate conventionally with drilling mud until no cement returns to surface.
19. PU w/ 1-1/2" tbg to 1900'. Establish circulation.
20. RU Cementing services. Spot 45 sx (8.5" caliper & 20% excess)of cement (Neat G mixed at 15.8 ppg 1.15 cuft/sx) from 1800'-1900'. Pull 2 stand tbg and circulate hole with min 9.0 ppg drilling mud. Circulate to get any cement out of the hole. SB cementer.
21. P & LD 1-1/2" tbg for next depth (870'), LD remainder. Circulate wellbore with 9.0 ppg drilling mud with biocide.
22. TIH with 1-1/2" tbg open ended to land EOT 870' (100' below base of Surface Casing).

23. RU cementer. Spot 110 sx of (8.5" caliper in open hole, 0.0636 bbl/Lnft in) cement (Neat G mixed at 15.8 ppg 1.15 cuft/sx) from 870' in the 7-7/8" production hole to 560' inside the surface casing (plug from 870'-560'). TOOH & LD 1-1/2" tbg, stand back 560' 1-1/2" tbg in derrick. RDMO Cementer.
24. WOC 4 hours or overnight.
25. TIH with 1-1/2" tbg and tag cement plug. Record tagging plug in Openwells report. Lay down all tbg. If cement top below 660' contact Evans engineer for prog modification.
26. RU WL. Set 8-5/8" CIBP above cement top at approximately 100'. Pressure test CIBP to 1000 psi for 15 min. (If CIBP does not hold do not RDMO WO rig, contact Evans engineer).
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 well 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. (and necessary BLM subsequent notice)