

FEDERAL 14-36 (HSR)

1. Gyro ran on 8/16/2011.
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 2-1/16", 3.25# tbg of 39,256 lbs. (80% of upset joint yield strength).
8. TOO H with 2-1/16" tbg and stand back.
9. MIRU WL. RIH with Junk Basket/Gauge Ring on WL to \pm 7110'. TOO H with Junk Basket/Gauge Ring.
10. PU and RIH with CIBP for 3-1/2", 7.7#, KS-70 production casing. Set CIBP at 7110' (60' above CN perfs). POOH. Pressure test to 1000 psi. MO WL.
11. MIRU cementer. TIH (Hydrotest tbg as TIH) and circulate 20 sx cement (0.00914 bbl/lft) (Neat G mixed at 15.8 ppg 1.15 cuft/sx) to set a balanced plug @ 6720'-7110'. Circulate wellbore with min 9.0 ppg drilling mud including biocide.
12. MIRU WL. PU and RIH with CCL and 3-1/8" perf gun (2-1/2" or smaller) and perforate casing at 5480' (200' below base of Shannon) with 3 spf, 0.38" EHD, 33.65" penetration, 120 deg phasing, 1' net, 3 shot total.
13. PUH and perf casing at 4235' (230' above top of Sx) with 3 spf, 0.50" EHD, >6.0" penetration, 120 deg phasing, 1' net, 3 shot total. POOH with CCL and perf guns and RDMO WL.
14. PU and RIH with 3.5" CICR on setting tool and 2-1/16" tubing to set CICR at 4265' (30' below top perfs) in 3-1/2" casing. Set CICR and establish circulation through squeeze holes at 4235' and 5480' and note returns in OpenWells report.
15. RU cementer. Once pumping rate has been established, pump 5 bbl water, followed by 20 bbl Sodium Metasilicate ahead of cement, followed by 5 bbl water. Pump 550 sx (9" caliper and 20% excess) of cement (Neat G) from 4235' and 5480'. Sting out of retainer and dump 2 sx cement on top of retainer. Note returns during cement job in OpenWells report.
16. PUH to 3935' (300' above estimated top of cement) with 2-1/16" tubing and circulate conventionally with min 9 ppg drilling mud until no cement returns to surface. RD cementer.
17. P & SB tubing for next depth (970'), LD remainder.
18. MIRU WL. TIH with jet cutter and cut casing at the "closest joint" to 870' (100' below bottom of SC). RDMO WL.
19. ND BOP & tbg head.
20. NU BOP w/ 3-1/2" pipe rams on the 8-5/8" csg head.

21. PU csg. Circulate wellbore with min 9 ppg drilling mud. TOOH and LD 3-1/2" csg. If unable to pull production csg contact engineer/COGCC for plugging modification.
22. TIH with tbg open ended to land EOT 970' below production casing stub at 870'.
23. MIRU cementer. Spot 90 sx (9.5" caliper and 20% excess) of cement (Neat G) from 970' below the 3-1/2" stub to at least 560' (inside the surface casing) (plug from 970'-560'). TOOH w/ tubing and stand back 560' tbg in derrick. RDMO Cementer.
24. WOC 4 hours or overnight.
25. TIH with tbg and tag above cement plug @ 560'. (If below 660' contact Evans Engineer for prog modification). 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 (and necessary BLM subsequent notice)