

UPRR 38 PAN AM G 2

1. Gyro ran on 9/1/11 from 7800' to surface with stops every 100'.
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 2-3/8", 4.7# tbg of 57,3847 lbs. (80% of upset joint yield strength).
8. TOOH with 2-3/8" tbg and stand back.
9. MIRU WL. RIH with Junk Basket/Gauge Ring on WL to \pm 7900'. TOOH with Junk Basket/Gauge Ring. RD WL.
10. PU and RIH with CIBP for 4-1/2", 10.5# production casing. Set CIBP at 7838' (60' above JS perfs).POOH. Pressure test CIBP to 1000 psi for 15 min. Dump bail 2sx of cement on top of CIBP.
11. RIH with tbg and circulate out gas before running CBL.
12. RU WL. Run CBL from 7800' to surface. Forward CBL to engineer in Evans office (a.Leila.shahryari@anadarko.com). If TOC is not between 6800'-6830' do not proceed with procedure and contact engineer for plugging modification.
13. PU and RIH with CCL and 3-1/8" perf gun and perforate casing at 6790' (20' above existing TOC @ 6814') with 3 spf, 0.38" EHD, 33.65" penetration, 120 deg phasing, 1' net, 3 shot total. RDMO WL.
14. PU and TIH with 4.5" CICR and setting tool on 2-3/8" tubing to set CICR at 6770' (30' below proposed TOC @ 6740') in 4-1/2" casing. Hydrotest while RIH. Set CICR and establish injection.
15. MIRU cementing services. Pump 100 sx of cement (50/50 poz Class G w/ 20% Silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sx). Sting out of retainer and dump 2 sx cement on top of retainer. P & SB tubing for next depth (5600'), LD remainder. Circulate wellbore with drilling mud. RD cementer.
16. MIRU WL. PU and RIH with CCL and 3-1/8" perf gun and perforate casing at 5580' (200' below base of Shannon) with 3 spf, 0.38" EHD, 33.65" penetration, 120 deg phasing, 1' net, 3 shot total.
17. PUH and perf casing at 4190' (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.
18. PU and RIH with 4.5" CICR on setting tool and 2-3/8" tubing to set CICR at 4220' (30' below top perfs) in 4-1/2" casing. Set CICR and establish circulation through squeeze holes at 4190' and 5580' and note returns in OpenWells report.
19. 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 700 sx of cement ("G" w/

- 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-30) from 4190' and 5580'. Sting out of retainer and dump 2 sx cement on top of retainer. Note returns during cement job in OpenWells report.
20. PUH to 3890' (300' above estimated top of cement) with 2-3/8" tubing and circulate conventionally with drilling mud until no cement returns to surface.
 21. P & SB tubing for next depth (850'), LD remainder. RD cementer.
 22. MIRU WL. TIH with jet cutter and cut casing at the "closest joint" to 750' (150' below bottom of Surface casing). RDMO WL.
 23. ND BOP & tbg head.
 24. NU BOP w/ 4-1/2" pipe rams on the 8-5/8" csg head.
 25. 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.
 26. TIH with tbg open ended to land EOT 850' below production casing stub at 750'.
 27. MIRU cementer. Spot 250 sx of cement (Type III w/ CaCl₂) from 800' below the 4-1/2" stub to at least 100' inside the surface casing (plug from 800'-100'). TOOH w/ tubing and stand back 100' tbg in derick. RDMO Cementer.
 28. WOC 4 hours or overnight.
 29. TIH with tbg and tag cement plug. Record tagging plug in Openwells report. Lay down all tbg.
 30. 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 hole do not RDMO WO rig, contact Evans engineer).
 31. RDMO WO rig.
 32. Wellsite supervisor turn all paper copies of cementing reports/invoices and logs in to Sabrina Frantz.
 33. NOTE: During the job, wellsite supervisor should instruct the logging and cementing contractors to e-mail all logs, job reports/invoices to Sabrina Frantz.
 34. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
 35. 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.
 36. 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.
 37. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
 38. 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.
 39. 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.
 40. Properly abandon flowlines as per Rule 1103.
 41. Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.

42. Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.