Dodero Louis A UT B 1

P&A

1. Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call the Automation Removal Group at least 24 hr prior to rig move. Request they catch and remove plunger, isolate production equipment and remove any automation prior to rig MIRU.
2. MIRU slickline services. Pull bumper spring and tag bottom. Run pressure recorder and obtain pressure gradient survey from surface to 7,820' making gradient stops every 1,000'. Forward the pressure bomb results to Evans Engineering. RDMO slickline services. NOTE: The BHP survey must be run before the well is blown down or killed with fluid.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
5. MIRU WO rig. Kill well as necessary w/ water containing biocide. ND WH, NU BOP.
6. PU the 2-3/8" tbg (4.7#, J-55) to break any sand bridges. Do not exceed the safety tensile load of 57,600 lbs (80% of upset yield strength).
7. TOOH. SB +/- 7,100' of tbg, LD the remainder.
8. MIRU Wireline. PU gauge ring for 4-1/2", 10.5# csg and RIH to +/- 7,760'. POOH and LD gauge ring.
9. PU CIBP for 4-1/2" csg (10.5#, J-55, STC). RIH and set CIBP at 7,750'. POOH and LD the setting tool. Dump bail 2 sx of 'Neat' G cmt on top of the CIBP. Pressure test CIBP to 1000 psi for 15 min. RDMO Wireline.

10. TIH w/ 2-3/8" tbg to +/- 3,000'. Circulate gas out of the well and load hole to surface to prepare for a CBL. TOOH and SB tbg.
11. MIRU Wireline. RIH w/ CBL-CCL to CIBP @ 7,750'. Log to surface. Notify engineer of the results for possible change to procedure. NOTE: Calculated TOC is 7,070'.
12. PU and RIH one 3' perf gun (3-1/8", 6 spf, 0.42" EHD, 7" penetration, 60^{o} phasing, 3' net, 18 total holes) to 7,060' and shoot 1' of bottom perfs in 4-1/2" prod csg. PUH to 6,730' and shoot 2' of top perfs. POOH and LD perf guns. RDMO Wireline.
13. PU CICR for 4-1/2" 10.5# csg on 2-3/8" tbg. Hydrotest (to 6,000 psi) in hole and set CICR at +/- 6,760'.
14. Establish circulation with water containing biocide.
15. MIRU Cementing Services. Squeeze 100 sx (+/- 166 cuft) of cmt (Poz:G:Gel + 20% silica + 0.4% CFL-3 + 0.4% CFR-2 + 0.1% SMS) mixed at 13.5 ppg and 1.66 cuft/sk yield for a 3-4 hr thickening time from 7,060' to 6,630' in 9"/4-1/2" annulus (+ 20% excess, 9" hole from caliper). Under displace by 3 bbls, sting out of the CICR and dump the 3 bbls of cmt on top of the CICR. RDMO Cementing Services.
16. PUH to 5,000' and circulate out the cement. POOH and SB 4,900' of tbg, LD the remainder.
17. MIRU Wireline. PU and RIH one 3' perf gun (3-1/8", 6 spf, 0.42" EHD, 7" penetration, 60^{o} phasing, 3' net, 18 total holes) to 4,900' and shoot 1' of bottom perfs in 4-1/2" prod csg. PUH to 4,030' and shoot 2' of top perfs. POOH and LD perf guns. RDMO Wireline.
18. PU CICR for 4-1/2" 10.5# csg on 2-3/8" tbg. TIH and set CICR at +/- 4,060'.
19. Establish circulation with water containing biocide.

20. MIRU Cementing Services. Pump 20 bbls of metasillicate then 10 bbls of fresh water followed by 570 sx (+/- 655.5 cuft) of cmt (Class G + 0.5% CFR-2 + 0.2% FMC + 0.5% LWA + 0.25 lb/sk polyflake) mixed at 15.8 ppg and 1.15 cuft/sk for a 4:47 thickening time from 4,900' to 3,930' in 11"/4-1/2" (+ 20% excess, 11" from caliper). Under displace by 3 bbls, sting out of the retainer and dump 3 bbls of cmt on top of the CICR. RDMO Cementing Services.
21. POOH and SB +/- 1,200' of tbg, LD the remainder.
22. MIRU Wireline. PU jet cutter for 4-1/2" 10.5# csg. RIH and cut csg at 1,030'. POOH and LD jet cutter. RDMO Wireline. Circulate to remove any gas from the wellbore.
23. ND BOP and tbg head. TU BOP on the surface csg head w/ 4-1/2" pipe rams. Install 3,000 psi rated ball valves on both surface csg outlets. Install a choke or a choke manifold on one of the outlets.
24. TOOH and LD 4-1/2" csg.
25. Remove the 4-1/2" pipe rams and install 2-3/8" pipe rams on the BOP.
26. TIH w/ 2-3/8" tbg to 1,130' (100' past the csg stub).
27. MIRU Cementing Services. Establish circulation with water containing biocide and get bottoms up. Pump 10 bbls of SAPP (Sodium Acid pyrophosphate) followed by 20 bbls of fresh water containing biocide. Spot 500 sx (+/- 665 cuft) of cmt (Type III + 0.3% CFL-3 + 0.3% CFR-2 + 0.25 lb/sk polyflake + 0.5% $CaCl_2$ as deemed necessary) mixed at 14.8 ppg and 1.33 cuft/sk from 1,130' to 1,030' inside 4-1/2" csg stub, 1,030' to 492' in 11" OH (+ 40% excess, from closest caliper), and from 492' to 290' inside 8-5/8" csg. RDMO Cementing Services.
28. SB +/- 290' of tbg. PUH to 100' and circulate clean. WOC for 4 hrs.

29. TIH w/ tbg and tag TOC. If cement is deeper than 390' contact Engineering in Evans.
30. MIRU wireline. PU CIBP on wireline for 8-5/8" (24#) csg and TIH to +/- 80'. Set CIBP and test to 1000 psi for 15 min. POOH and LD wireline. RDMO wireline.
31. RDMO WO rig.
32. NOTE: Instruct cementing & wireline contractors to email copies of all job logs/job summaries & invoices to rscDJVendors@anadarko.com within 24 hours of the completion of the job.
33. Wellsite supervisor should turn all paper copies of cementing reports/invoices and logs into Evans Engineering Specialist.
34. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
35. Excavate hole around surface casing enough to allow welder to cut 8-5/8" casing minimum 5' below ground level.
36. Welder cut 8-5/8" casing minimum 5' below ground level.
37. MIRU ready cement mixer. Fill the last 80' inside the 8-5/8" prod. casing until 10' below surface. 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.
38. 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.
39. Properly abandon flowlines as per rule 1103.
40. Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.

41. Submit Form 6 to COGCC. Provide “As Plugged” wellbore diagram identifying the specific plugging completed.