

Upr 42 Pan Am "AS" #1

1. Provide notice to COGCC prior to MIRU per Form 6 COA.
2. Call foreman or Lead Operator before rig up to isolate and remove automation and production equipment. Install fencing as needed.
3. MIRU slickline services. Pull bumper spring and run gyro survey from 8200' to surface with stops every 100'. RDMO slickline services.
4. Notify CDC when rig moves on location to generate work order for flowline removal and one call for line locates.
5. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~275 sx plug #1; ~575 sx plug #2; ~220 sx plug #3, 55 sx plug #4)
6. MIRU WO rig. Kill well, as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
7. TOOH and stand back 7775' of 2-3/8" tbg.
8. PU and TIH with casing scraper & bit for 4.5 casing. Scrape casing to ~8200'. Circulate hole clean. TOOH and lay down scraper and bit and stand back tubing.
9. MIRU wireline services. PU 4-1/2" CIBP and RIH to 8175', set CIBP. POOH.
10. Pressure test plug to 1500 psi for 15 min.
11. PU CBL tool and RIH. CBL from 8150'-7000' to confirm depths of cement.
12. PUH and run CBL from 1100'-surface to confirm depths of cement. Laydown CBL tool.
13. NOTIFY ENGINEER OF CEMENT COVERAGE and change procedure accordingly for cement plugs based upon existing cement depths found from CBL.
14. PU cement bailer. RIH to CIBP and dump bail 2 sx of cement on top of CIBP. POOH
15. PU perf gun loaded with 1' of 3 spf, 0.38" EHD, 33.65" penetration, 120 degree phasing. RIH to 7800' and shoot squeeze holes. POOH
16. PU 4-1/2" CICR. RIH to 7775' and set CICR. POOH.
17. Pressure test CICR to 1500 psi for 15 minutes. RDMO wireline services.
18. PU 2-3/8" tbg. TIH hydrotesting to 3000 psi and sting into CICR @ 7775'. MIRU cementing services.
19. Mix and Pump 275 sx of 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 (yield 1.71 ft³/sx, 13.5 ppg, ~83.5 bbl slurry). Pump 72.5 bbl cement slurry through CICR. and PU out of retainer.
20. PU out of retainer. Pump 11 bbl balanced cement plug from CICR (7775') to 7066'.
21. PUH 30 jts (~945') to 6830' and circulate hole with at least 9 ppg mud w/ biocide to fill hole and remove any cement. RDMO cementing services. TOOH and stand back 4575' of tbg, laying down remaining tubing.
22. MIRU wireline services. PU perf gun loaded with 1' of 3 spf, 0.38" EHD, 33.65" penetration, 120 degree phasing, and 1' of 3 spf, 0.6" EHD, 7" penetration, 120 phasing. RIH to 5440' and shoot the 0.38" EHD gun.
23. PUH to 4513' and shoot 1' of the 0.6" stage gun. POOH. RDMO wireline services.
24. PU 2-3/8" tbg w 4-1/2" CICR. TIH and set CICR @ 4575'. Establish circulation through CICR.

25. MIRU cementing services. Preflush with 5 bbl H₂O, 20 bbl of sodium metasilicate, 5 bbl H₂O.
26. Mix and Pump 575 sx of Class "G" cement with ¼ #/sx cello-flake, 0.4% CD-32 and 0.4% ASA-301 through CICR (yield 1.15 ft³/sx, 15.8 ppg, ~117.5 bbl slurry). Displace w/ mud leaving 3 bbl of cement on top of CICR. RDMO cementing services.
27. PUH 20 jts (~630') to 3945' and circulate hole with at least 9 ppg mud w/ biocide to remove any cement. TOOH and stand back 825' of tbg, laying down remaining tubing.
28. MIRU wireline services. PU perf gun loaded with 1' of 3 spf, 0.38" EHD, 33.65" penetration, 120 degree phasing, and 1' of 3 spf, 0.6" EHD, 7" penetration, 120 phasing. RIH to 1075' and shoot 1' of the 0.38" EHD gun.
29. PUH to 780' and shoot 1' of the 0.6" EHD gun. POOH.
30. PU 4-1/2" CICR. RIH to 825' and set CICR. POOH. RDMO wireline services.
31. PU 2-3/8" tbg. TIH and sting into CICR @ 825'. MIRU cementing services. Establish circulation through CICR.
32. Mix and Pump 220 sx of Type III cement through CICR (yield 1.53 ft³/sx, 14 ppg, ~60 bbl slurry). Displace leaving 3 bbl of cement on top of CICR. RDMO cementing services.
33. PUH 8 jts (~252') to 573' and circulate hole with at least 9 ppg mud w/ biocide to remove any cement. TOOH and stand back 680' of tbg, laying down remaining tubing.
34. NDBOP NDTH. Unland casing from slips and work casing.
35. MIRU wireline services. Shoot off casing 30' above TOC (~215').
36. NU BOP on casing head. Install 4-1/2" pipe rams.
37. PU casing and conventionally circulate 50 bbl of mud. If circulation cannot be established contact engineer and COGCC for change in procedure.
38. TOOH with 4-1/2" casing and lay down.
39. PU 2-3/8" tbg and TIH into casing stub to TOC (estimated @ ~637').
40. MIRU cementing services. Mix and pump 55 sx of Type III cement from TOC (~637') to 100' (yield 1.53 ft³/sx, 14 ppg, ~15 bbl slurry). Displace cement. PUH to 100' and circulate 10 bbl of mud to remove any cement. RDMO cementing services. WOC 4 hrs or overnight.
41. TIH and tag cement plug, NOTE: DEPTH OF PLUG IN OPENWELLS. If plug top is above 111' TOOH and lay down tubing.
42. MIRU wireline services. PU 8-5/8" CIBP and RIH to 100'. Set CIBP and POOH. Pressure test CIBP to 1000 psi for 15 minutes. RDMO wireline services.
43. RDMO WO Rig.
44. Wellsite supervisor turn all paper copies of cementing reports/invoices and logs in to Sabrina Frantz. NOTE: During the job, wellsite supervisor should instruct the logging and cementing contractors to e-mail all logs, job reports/invoices to Sabrina Frantz.
45. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
46. Place redi-mix cementer on will call. (6.5 bbl)
47. 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.
48. Have welder cut off 8-5/8" surface casing at least 5' below ground level.

49. MIRU ready cement mixer. 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.
50. Have welder spot weld steel marker plate on top of surface casing. (Note: marker shall be labeled with well name and number, legal location (¼ ¼ description) and API number.
51. Properly abandon flowlines as per Rule 1103.
52. Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.
53. Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.

The Upr 42 pan am "as" #1; J-sand only; producing since 1978 has averaged 12 mscf and insignificant oil over the past year. There is a current hole in tubing, with speculation of leaking surface equipment and/or casing integrity issues. Possible well integrity issues degrades recompletion value. Workover is uneconomic