

Upr 42 Pan Am "N" Nav #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 fence if needed.
3. Notify CDC when rig moves on location to generate work order for flowline removal and one call for line locates.
4. No gyro needed. Gyro ran 10/2012.
5. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~35 sx plug #1; ~525 sx plug #2; ~175 sx plug #3)
6. MIRU WO rig. Kill well, as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
7. TOO H and stand back tbg.
8. PU and TIH with casing scraper & bit for 4-½" casing. Scrape casing to ~8210'. Circulate hole clean. TOO H and lay down scraper and bit and stand back 7500' of tubing.
9. MIRU wireline services. PU 4-1/2" CIBP and RIH to 8200', set CIBP. POOH.
10. PU cement bailer. RIH to CIBP and dump bail 2 sx of cement on top of CIBP. POOH
11. PU CBL. Run CBL from 7800' to surface.
12. Contact APC Engineer with cement depths and change procedure accordingly.
13. PU 4-1/2" CIBP and RIH to 7500', set CIBP. POOH.
14. Pressure test plug to 1000 psi for 15 min. Note: Squeeze holes @ 7136'; 5760' and 5150'. RDMO wireline services.
15. RIH w/ 2-3/8" tbg to CIBP hydrotesting tbg in hole to 3000 psi. Circulate wellbore full with at least 9 ppg mud containing biocide (~125bbl)
16. MIRU cementing services. Mix and Pump 35 sx of "G" w/20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time. (yield 1.38 ft³/sx, 15.8 ppg, ~8.5 bbl slurry)
17. PUH ~78 jts (~2457') to 4993' laying down tubing and circulate hole with at least 9 ppg mud w/ biocide to remove any cement. TOO H and stand back 4200' of tbg, lay down remaining tubing.
18. PU perf gun loaded with 3' of 3 spf, 0.6" EHD, 7" penetration, 120 phasing. RIH to 4918' and shoot 1' of perms.
19. PUH to 4180' and shoot remaining 2' of perms. POOH. RDMO wireline services.
20. PU 4-1/2" CICR and TIH w/ 2-3/8" tbg hydrotesting to 3000psi. Set CICR @ 4200'. Establish circulation through CICR.
21. MIRU cementing services. Preflush with 5 bbl H₂O, 20 bbl of sodium metasilicate, 5 bbl H₂O.
22. Mix and Pump 525 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, ~107 bbl slurry) (Open hole calculated at 11" with 20% excess). Underdisplace cement by 3 bbl leaving excess on top of CICR.
23. PUH 106 jts (~3339') to 861' laying down tubing and circulate hole with at least 9 ppg mud to remove any cement. RDMO cementing services. TOO H and stand back 769' of tbg, lay down remaining tubing.

24. MIRU wireline services. Shoot off casing at 450'. RDMO wireline services.
25. NDBOP NDTH. Unland casing from slips.
26. NU BOP on casing head. Install 4-1/2" pipe rams.
27. PU casing and conventionally circulate 100 bbl of mud. If circulation cannot be established contact engineer and COGCC for change in procedure.
28. TOO H with 4-1/2" casing and lay down.
29. PU 2-3/8" tbg and TIH into casing stub to to 769'.
30. MIRU cementing services. Mix and pump 175 sx of Type III cement from 769' to 135' (yield 1.53 ft³/sx, 15.8 ppg, ~47 bbl slurry). Place balanced plug from 769' – 135'. PUH to 100' and circulate 10 bbl of mud to remove any cement. RDMO cementing services. TOO H and stand back 135' of tubing, lay down remaining tubing. WOC 4 hrs or overnight.
31. TIH and tag cement plug, NOTE: DEPTH OF PLUG IN OPENWELLS. If plug top is above 135' TOO H and lay down tubing.
32. 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.
33. Assuming CIBP tests, RDMO
34. 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.
35. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
36. Check top of cement inside 8-5/8" surface casing., place redi-mix cementer on will call. (6.5 bbl)
37. Excavate hole around surface casing of sufficient size and depth to allow welder to cut off 8-5/8" surface casing and at least 5' below ground level.
38. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
39. MIRU ready cement mixer. Use 4,500 psi compressive strength redi-mix cement (sand and cement only, no gravel) to finish filling surface casing and production casing to top of cut off.
40. 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.
41. Properly abandon flowlines as per Rule 1103.
42. Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.
43. Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.

This well is up for safety prep or P&A for an offset HZ frac to be completed 9/9/2013 with an offset distance of 187 ft. Based upon the age of this well (1975 and the low production (18 mscf and 0.3 bopd) I propose to P&A the wellbore. WO# 88378168