

Upr 50 pan am "M" #1

1. Provide 48 hour notice of MIRU to COGCC per approved Form 6.
2. Call foreman or Lead Operator before rig up to isolate production equipment. Install fence if needed.
3. MIRU slickline services. Pull bumper spring and run gyro survey from 8150' to surface with stops every 100'. RDMO slickline services.
4. Kill well, as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
5. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~65 sx plug #1; ~735 sx plug #2; ~140 sx plug #3; ~160 sx plug #4)
6. TOOH and stand back 2-3/8" tbg.
7. PU and TIH with casing scraper & bit for 5.5" casing. Scrape casing to ~8030'. Circulate hole clean and with water containing biocide. TOOH and lay down scraper and bit and stand back 7550' of tubing, lay down remainder of tubing.
8. MIRU wireline services. PU 5- 1/2" CIBP w/ wireline, RIH and set CIBP @ 8020'. POOH. PU cement bailer, RIH and dump bail 2 sx of cement on top of CIBP. POOH
9. PU 5- 1/2" CIBP w/ wireline, RIH and set CIBP @ 7560'. POOH. Test CIBP to 2,000 psi for 15 minutes. Place wireline services on standby.
10. RIH with 2-3/8" tbg hydrotesting to 3000 psi to 10' above CIBP.
11. MIRU cementing services. Mix and Pump 65 sx of class "G" cement with 35% silica flour and 0.2% R-3 (yield 1.49 ft³/sx, ~ 17 bbl) setting balanced plug from CIBP to 6841'. Displace with 26 bbl. Place cementing services on standby.
12. PUH 23 jts (~730') and reverse circulate with 170 bbl of at least 9 ppg mud with biocide to fill hole and remove and excess cement. POOH and stand back 5700' of tbg and lay down remaining tubing.
13. RU wireline services. PU perf gun loaded with 1' of 3 spf, 0.38" EHD, 33.65" penetration, 120 degree phasing. RIH to 5780' and shoot 1' of the squeeze holes.
14. PU 5-1/2" CICR. RIH to 5700' and set CICR. POOH.
15. Pressure test CICR to 2500 psi for 15 minutes. Place wireline services on standby.
16. RIH with 2-3/8" tbg and sting into CICR @ 5700'.
17. RU cementing services. Establish circulation through CICR. Preflush with 5 bbl H₂O, 5 bbl sodium metasilicate, 5 bbl H₂O.
18. Mix and Pump 735 sx of Class "G" cement with 1/4 #/sx cello-flake (yield 1.16 ft³/sx, ~151.5 bbl). Pump 126 bbl through CICR, release from CICR and set balanced plug from 5700'-4617' with remaining 25.5 bbl of cement. Displace with 17.5 bbl of at least 9 ppg mud.
19. PUH 35 jts (~1105') and reverse circulate hole with 27 bbl of at least 9 ppg mud w/ biocide to remove any cement. RDMO cementing services. TOOH and stand back 1555' of tbg, lay down remainder of tubing.
20. NDBOP NDTH. Work Casing
21. NU BOP on casing head. Install 5-1/2" pipe rams.

22. RU wireline services. Confirm pipe is free and shoot-off casing @ 1455'. RDMO wireline services.
23. PU casing and conventionally circulate 150 bbl. If circulation cannot be established contact engineer and COGCC for change in procedure.
24. TOOH with 5-1/2" casing and lay down.
25. TIH into casing stub with 2-3/8" tbg to 1555'.
26. MIRU cementing services. Mix and pump 140 sx of class "G" cement w/ 2% CaCl₂ from 1555' to 1155' (yield 1.15 ft³/sx, ~28.5 bbl). Displace cement w/ 4 bbl of at least 9 ppg mud. PUH to 1155' and reverse circulate 10 bbl of mud to remove any cement. RDMO cementing services. WOC 4 hrs or overnight.
27. TIH and tag cement plug, NOTE: DEPTH OF PLUG IN OPENWELLS. If plug top is above 1255' TOOH and stand back 500' of tbg, lay down remainder of tubing.
28. MIRU wireline services. PU 8-5/8" CIBP and RIH to 500'. Set CIBP and POOH. Pressure test CIBP to 1000 psi for 15 minutes. RDMO wireline services.
29. TIH with 2-3/8" tbg to 10' above CIBP (490').
30. MIRU cementing services. Mix and pump 160 sx of class "G" cement with 2% CaCl from CIBP to surface (yield 1.15 ft³/sx, ~32.5 bbl). RDMO cementing services. TOOH and lay down tbg.
31. WOC overnight. If cement is within 50' of surface then RDMO WO rig.
32. 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.
33. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
34. 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.
35. 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.
36. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
37. 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.
38. Have welder 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.

The Upr 50 Pan Am "M" #1 is a 1978 J-Sand well not in HZ development. The Codell was completed 10/1995. This well is a low producer in a high risk area. The wellhead is close to a subdivision and battery close to other houses. P&L for Sept \$774 and Oct \$297.