

Weichel Gordon P Unit B #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. No gyro needed last gyro run 9/28/2011.
4. Notify CDC when rig moves on location to generate work order for flowline removal and one call for line locates.
5. MIRU slickline services. Pull bumper spring and tag for fill. RDMO slickline services.
6. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~30 sx plug #1; ~55 sx plug #2; ~110 sx plug #3, 35 sx plug #4, 60 sx plug #5)
7. MIRU WO rig. MI 7 jts of 2-3/8" tbg. ND wellhead. NU BOP's. Unseat landing joint and lay down.
8. RIH to Thunderbird RBP @ 6820'. Latch onto RBP. POOH and LD RBP and retrieving head.
9. PU 2-3/8" tbg. TIH hydrotesting to 3000 psi to CIBP @ 6860'. MIRU cementing services.
10. Mix and Pump 30 sx of Class "G" cement 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, ~7 bbl slurry) from CIBP (6860') – 6480'. Displace cement setting balanced plug.
11. PUH 14 jts (~440') to 6430' and circulate hole with at least 9 ppg mud w/ biocide to fill hole and remove any cement. PUH to 4870' laying down tubing.
12. Mix and Pump 55 sx of Class "G" cement w/ 0.4% CD-32 and 0.4ASA-301 (yield 1.15 ft³/sx, 15.8 ppg, ~11 bbl slurry) from 4870' – 4190'. Displace cement setting balanced plug. RDMO cementing services.
13. PUH 24 jts (~756') to 4114' and circulate hole with at least 9 ppg mud to remove any excess cement. TOO H w/ 2-3/8" tbg standing back 3970' and laying down remaining tubing. WOC 4hrs or overnight.
14. RIH with sandline and tag cement plug. NOTE: Depth of cement plug in OpenWells. POOH w/ sandline.
15. 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 4090' and shoot the 0.38" EHD gun.
16. PUH to 3940' and shoot 1' of the 0.6" stage gun. POOH. RDMO wireline services.
17. PU 2-3/8" tbg w 4-1/2" CICR. TIH and set CICR @ 3970'. Establish circulation through CICR.
18. MIRU cementing services. Preflush with 5 bbl H₂O, 20 bbl of sodium metasilicate, 5 bbl H₂O.
19. Mix and Pump 110 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, ~22.5 bbl slurry). Displace w/ mud (underdisplacement of 3bbl leaving cement on top of CICR).
20. PUH 10 jts (~315') to 3655' and circulate hole with at least 9 ppg mud to remove any cement.
21. PUH to 880' laying down tubing.

22. Mix and Pump 35 sx of Type III cement (w/ CaCl₂ as needed) (yield 1.53 ft³/sx, 14 ppg, ~9.5 bbl slurry) balanced from 880'-313'. Displace w/ mud.
23. PUH 18 jts (~567) to 313' and circulate hole with at least 9 ppg mud to remove any cement.
24. TOOH w/ 2-3/8" tubing and lay down. WOC 4 hrs or overnight.
25. RIH with sandline and tag cement plug. NOTE: Depth of plug in openwells. POOH w/ sandline.
26. MIRU wireline services.
27. PU 4-1/2" CIBP. RIH to 280 and set CIBP. POOH
28. PU perf gun loaded 1' of 3 spf, 0.6" EHD, 7" penetration, 120 phasing. RIH to 270' and shoot gun. POOH. RDMO wireline services.
29. Establish circulation down casing up annulus. MIRU cementing services.
30. Mix and Pump 60 sx of Type III cement (w/ CaCl₂ as needed) down casing up annulus (yield 1.53 ft³/sx, 14 ppg, ~16 bbl slurry). Once returns seen to surface, RDMO cementing services
31. 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 and 4-1/2" production 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 4-1/2" production casing at least 5' below ground level.
36. Have welder cut off 8-5/8" surface casing and 4-1/2" production casing at least 5' below ground level.
37. If needed, 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.
38. 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,
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.

Well is in HZ activity window. Propose to P&A instead of unprep, currently shut in for safety prep. Fox Hills squeeze produced drilling mud, there have been multiple casing issues in the past, and a packer has been needed to safely produce the well. Due to wellbore issues and low production recommend P&A.