

Weichel Gordon P Unit B #2

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 11/2011.
5. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~75 sx plug #1; ~900 sx plug #2; ~175 sx plug #3)
6. MI 70 jts of yellow band or better 2-3/8" J-55 tbg. NOTE: Current tubing is landed @ 5504' as a kill string,
7. MIRU WO rig. Kill well, as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
8. TOOH and stand back tbg.
9. PU tubing and RIH to CIBP @ 7550' while hydrotesting to 3000 psi. Circulate wellbore full with at least 9 ppg mud containing biocide (~125bbl)
10. MIRU cementing services. Mix and Pump 75 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, ~18.5 bbl slurry). Place balanced plug from 7550'-6437'.
11. PUH ~70 jts (~2205') to 5345' laying down tubing and circulate hole with at least 9 ppg mud w/ biocide to remove any cement.
12. RDMO cementing services. TOOH and stand back 4100' of tbg, lay down remaining tubing.
13. MIRU wireline services. PU perf gun loaded with 3' of 3 spf, 0.6" EHD, 7" penetration, 120 phasing. RIH to 5229' and shoot 1' of perfs.
14. PUH to 4037' and shoot remaining 2' of perfs. POOH. RDMO wireline services.
15. PU 4-1/2" CICR and TIH w/ 2-3/8". Set CICR @ 4100'. Establish circulation through CICR.
16. MIRU cementing services. Preflush with 5 bbl H₂O, 20 bbl of sodium metasilicate, 5 bbl H₂O.
17. Mix and Pump 900 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, ~184 bbl slurry) (Open hole calculated at 11.5" with 20% excess). Underdisplace cement by 3 bbl leaving excess on top of CICR.
18. PUH 98 jts (~3087') to 1013' laying down tubing and circulate hole with at least 9 ppg mud to remove any cement. RDMO cementing services. TOOH and stand back 917' of tbg, lay down remaining tubing.
19. MIRU wireline services. Shoot off casing at 817'. RDMO wireline services.
20. NDBOP NDTH. Unland casing from slips.
21. NU BOP on casing head. Install 4-1/2" pipe rams.
22. PU casing and conventionally circulate 100 bbl of mud. If circulation cannot be established contact engineer and COGCC for change in procedure.
23. TOOH with 4-1/2" casing and lay down.
24. PU 2-3/8" tbg and TIH into casing stub to 917'.

25. MIRU cementing services. Mix and pump 175 sx of Type III cement from 917'-423' (yield 1.53 ft³/sx, 15.8 ppg, ~47.5 bbl slurry) (Open hole calculated at 11" with 40% excess). Place balanced plug from 917'-423'. PUH to 100' and circulate 10 bbl of mud to remove any cement. RDMO cementing services. TOOH and stand back 423' of tubing, lay down remaining tubing. WOC 4 hrs or overnight.
26. TIH and tag cement plug, NOTE: DEPTH OF PLUG IN OPENWELLS. If plug top is above 423' TOOH and lay down tubing.
27. 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.
28. Assuming CIBP tests, RDMO
29. 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.
30. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
31. Check top of cement inside 8-5/8" surface casing., place redi-mix cementer on will call. (6.5 bbl)
32. 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.
33. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
34. 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.
35. 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.
36. Properly abandon flowlines as per Rule 1103.
37. Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.
38. Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.

1980 J-Sand well that was prep'ed. Upon un-prep there was difficulty in being able to drill out the CIBP. Four Days and \$30,000 has been spent on un-prep with no progress for two days. Total cost of safety prep is now over \$115,000. Based upon previous production values of well it is believe best to stop un-prep and move to P&A of wellbore.