

Amoco charter Schneider C #1

1. Provide 48 hour notice to COGCC as specified in the approved Form 6.
2. Call foreman or Lead Operator before rig up to isolate production equipment. Install fence if needed.
3. No gyro needed, gyro ran 10/11/2011
4. MIRU slickline services. Remove tools from hole. RDMO slickline services.
5. Kill well, as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
6. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~100 sx plug #1; ~55 sx plug #2; ~100 sx plug #3; ~120 sx plug #4; 35 sx plug #4)
7. TOOH and stand back 2-3/8" tbg.
8. PU and TIH with casing scraper & bit for 4.5 casing. Scrape casing to ~8180'. Circulate hole clean. TOOH and lay down scraper and bit and stand back 6940' of tubing.
9. MIRU wireline services. PU 4-1/2" CIBP. RIH to 8170' and set CIBP. POOH
10. PU cement bailer. RIH and dump bail 2 sx of cement on top of CIBP. POOH
11. PU 4-1/2" CIBP. RIH to 7720' and set CIBP. POOH.
12. PU cement bailer. RIH and dump bail 2 sx of cement on top of CIBP. POOH
13. 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 7100' and shoot 1' of the 0.38" EHD stage squeeze.
14. PUH to 6900' and shoot 1' of the 0.6" stage squeeze holes. POOH. RDMO Wireline services.
15. PU 2-3/8" tbg with 4-1/2" CICR. TIH hydrotesting to 3000 psi and set CICR @ 6940'.
16. MIRU cementing services. Establish circulation through CICR.
17. Mix and Pump 100 sx of Class "G" cement with 35% silica flour and 0.2% R-3 through CICR (yield 1.49 ft3/sx, ~26.5 bbl). Displace w/ 23.5 bbl (underdisplacement of 3bbl leaving on top of CICR).
18. PUH 7 jts (~220') and reverse circulate hole with 110 bbl of at least 9 ppg mud w/ biocide to fill hole and remove any cement. Place cementing services on standby.
19. PUH to 5150' laying down tbgf.
20. Mix and Pump 55 sx of Class "G" cement with ¼ #/sx cello-flake from (5150'-4500') (yield 1.16 ft3/sx, ~11.5 bbl). Displace w/ 17 bbl.
21. PUH 21 jts (~665') 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 3 stands. WOC 4 hrs or overnight.
22. TIH and tag top of cement plug. NOTE: DEPTH OF PLUG IN OPENWELLS.
23. TOOH and stand back 1010' of tbg, lay down remainder of tubing.
24. 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 1070' and shoot 1' of the 0.38" EHD stage squeeze.

25. PUH to 960' and shoot 1' of the 0.6" stage squeeze holes. POOH. Place wireline services on standby.
26. MIRU cementing services. Establish circulation through CICR.
27. Mix and Pump 100 sx of Class "G" neat cement through CICR (yield 1.15 ft³/sx, ~20.5 bbl). Displace w/ 1/2 bbl (underdisplacement of 3bbl leaving on top of CICR). Place cementing services on standby.
28. PUH 7 jts (~220') and reverse circulate hole with 6 bbl of at least 9 ppg mud w/ biocide to remove any cement.
29. TOOH and stand back 415' of tubing, laying down the remainder of tubing.
30. NDBOP and ND Tubing head. Re-install BOP w/ 4-1/2" pipe rams on casing head. Unland casing from slips and work.
31. RU wireline services. Shoot off 4-1/2" casing @ 315'.
32. PU casing and conventionally circulate 75 bbl. If circulation cannot be established contact engineer and COGCC for change in procedure.
33. TOOH with 4-1/2" casing and lay down.
34. PU 2-3/8" tbg and TIH to 415' inside of casing stub.
35. MIRU cementing services. Mix and pump ~120 sx of class "G" neat cement with 2% CaCl₂ from 415' to 115' (yield 1.15 ft³/sx, ~24.5 bbl). Displace cement. PUH 10 jts (~315 ft) and circulate 15 bbl of mud to remove any cement. RDMO cementing services. WOC 4 hrs or overnight.
36. TIH and tag cement plug, NOTE: DEPTH OF PLUG IN OPENWELLS. If plug top is above 165' TOOH and stand back tbg.
37. MIRU wireline services. PU 8-5/8" CIBP and RIH to 115'. Set CIBP and POOH.
38. Pressure test CIBP to 1000 psi for 15 minutes. RDMO wireline services.
39. PU 2-3/8" tbg and TIH to 10' above CIBP (105').
40. MIRU cementing services. Mix and pump 35 sx of class "G" cement with 2% CaCl from CIBP to surface (yield 1.15 ft³/sx, ~7 bbl). RDMO cementing services. TOOH and lay down tbg.
41. WOC overnight. If cement is within 50' of surface then RDMO WO rig.
42. 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.
43. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
44. 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.
45. 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.
46. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
47. 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.
48. 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.
49. Properly abandon flowlines as per Rule 1103.

50. Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.
51. Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.

Flowlines need replaced to allow well to produce, and J-Sand plugged to return production to previous decline. Cost of both activities will be ~\$90,000, which is a payout of ~40 months. Well is also in an area of upcoming HZ activity. Propose to P&A well instead of replacing flowline. WO#88313228