

## Cannon 22-3

1. Provide 48 hour notice of MIRU to to COGCC per approved Form 6.
2. Call foreman or Lead Operator before rig up to isolate production equipment. Install fence if needed.
3. No gyro needed, well drilled with deviation survey 7/13/2011
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. (~140 sx plug #1; ~170 sx plug #2; ~155 sx plug #3)
6. Circulate 90 bbl of at least 9 ppg mud to fill wellbore. NOTE AND RECORD pump rate and length of time for mud returns to confirm circulation out of EOT (6193').
7. MIRU cementing services. Mix and Pump 140 sx of Class "G" cement down tubing setting a balanced plug from 6193' (EOT) – 4140'. (yield 1.15 ft<sup>3</sup>/sx, ~28.5 bbl). Displace w/ 16 bbl.
8. RDMO cementing services. WOC 4 hrs or overnight.
9. MIRU wireline services. Work tubing and attempt to confirm a freepoint. Cut tubing above freepoint and TOO H. If freepoint cannot be confirmed cut tubing @ 1020' and fish tubing. Place wireline services on standby.
10. TOO H with 2-3/8" tubing standing back 940' and laying down the remainder.
11. NDBOP and ND Tubing head. Re-install BOP w/ 4-1/2" pipe rams on casing head. Unland casing from slips and work.
12. RU wireline services. Shoot off 4-1/2" casing @ 846'. RDMO wireline services.
13. PU casing and conventionally circulate 100 bbl. If circulation cannot be established contact engineer and COGCC for change in procedure.
14. TOO H with 4-1/2" casing and lay down.
15. TIH with 2-3/8" tbg to 940' inside of casing stub.
16. MIRU cementing services. Mix and pump ~170 sx of class "G" cement with 2% CaCl<sub>2</sub> from 946' to 546' (yield 1.15 ft<sup>3</sup>/sx, ~35 bbl). Displace cement/ 2 bbl of 9 ppg mud. PUH 13 jts (~410 ft) and circulate 15 bbl of mud to remove any cement. RDMO cementing services. WOC 4 hrs or overnight.
17. TIH and tag cement plug, NOTE: DEPTH OF PLUG IN OPENWELLS. If plug top is above 646' TOO H and stand back tbg.
18. MIRU wireline services. PU 8-5/8" CIBP and RIH to 500'. Set CIBP and POOH.
19. Pressure test CIBP to 1000 psi for 15 min. RDMO wireline services.
20. TIH with 2-3/8" tbg to 10' above CIBP (490').
21. MIRU cementing services. Mix and pump 155 sx of class "G" cement with 2% CaCl from CIBP to surface (yield 1.15 ft<sup>3</sup>/sx, ~32 bbl). RDMO cementing services. TOO H and lay down tbg.
22. WOC overnight. If cement is within 50' of surface then RDMO WO rig.
23. 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.

24. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
25. 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.
26. 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.
27. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
28. 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.
29. 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.
30. Properly abandon flowlines as per Rule 1103.
31. Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.
32. Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.

Well in HZ development area. DK was plugged 11/15/2012. CD/NB perfed 11/16/2012 and formations were brokedown only not frac'ed. Pressure gauges were ran to monitor completions of the Cannon HZ frac's and depletion. Gauges got stuck downhole and cannot be retrieved. Propose to P&A the entire wellbore.