



Gittlein 21-4

P&A

DRAFT

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Attachments:

Attachment 1 – Wellbore Diagram
Attachment 2 – Proposed Wellbore Diagram

Safety

Safety meetings are to be held with all service company personnel prior to each job. Wellsite supervisor must notify contractors as to known hazards of which the contractors may be unaware. Well site supervisor must ensure that all workers are aware of their responsibilities and duties under the EH&S guidelines. All safety meetings will be recorded on the Encana daily completion reports in Wellview. . Follow best practices for well control and proper handling of gas, oil, and well fluids.

Regulations

All verbal notifications and approval from government regulatory agencies will be recorded on the Encana daily report. The name of the individual contacted and the subject matter of approval or notification will be recorded.

Reason for Work

Non-economic well.

Additional COGCC COAs**COGCC Rule 317.j**

Production casing cementing .The operator shall ensure that all cement required under this rule placed behind production casing shall be of adequate quality to achieve a minimum compressive strength of at least three hundred (300) psi after twenty-four (24) hours and of at least eight hundred (800) psi after seventy-two (72) hours both measured at eight hundred (800) psi at either ninety-five degrees Fahrenheit (95 °F) or at the minimum expected downhole temperature. After thorough circulation of a wellbore, cement shall be pumped behind the production casing (200) feet above the top of the shallowest uncovered known producing horizon. **All fresh water aquifers which are exposed below the surface casing shall be cemented behind the production casing. All such cementing around an aquifer shall consist of a continuous cement column extending from at least fifty (50) feet below the bottom of the fresh water aquifer which is being protected to at least fifty (50) feet above the top of said fresh water aquifer.** Cement placed behind the production casing shall be allowed to set seventy-two (72) hours, or until eight hundred (800) psi calculated compressive strength is developed, whichever occurs first, prior to the undertaking of any completion operation.

Objective:

Pull tubing and lay down. Set CIBP above Dakota. Set CIBP above J Sand. Set balance plug covering Niobrara. Squeeze cement over Sussex/Shannon. Set balance plug covering Sussex. Set CIBP below surface casing shoe and cement to surface.

Procedure:

1. Submit electronic Form 42 to COGGC 48 hours prior to MIRU.
2. Submit form for Ground Disturbance Permit.
3. Notify Automation and Production Department.
4. RU Slick line, pull bumper string and plunger and run Gyro to EOT @ 7875'.
5. RU flowback and bleed off pressure and flare if needed.
6. Hold a pre-job safety meeting. Discuss all aspects of the procedure with any involved personnel. Identify and address any safety concerns before the job begins.
7. MIRU pulling unit. Kill well with produced water.
8. ND wellhead, NU BOP.
9. Un-land Tubing. RIH and Tag.
10. POOH with tubing.
11. RU E-line.
12. RIH and set CIBP #1 @ 8025' (76' above top Dakota perforation). Ensure that CIBP is set in the middle of the joint of casing and pressure test plug to 500 psi.
13. RIH and dump bail 4 sxs of Class G Neat cement on top of CIBP (50' of cement).
14. RIH with tubing and set CIBP #2 @ 7825'. Pressure test plug to 500 psi.
15. Pump against CIBP with 4 sxs cement.
16. Pull up hole with tubing to 7320'.
17. Pump balanced plug with 35 sxs Class G Cement from ~6900'-7320'.
18. Reverse circulate to clear tubing. POOH with tubing.
19. RIH and shoot squeeze holes @ 5615'. Run injection test. If unable to establish injection, call Production Engineer @ 719-859-4942.
20. RIH with wireline and set CICR @ 5565'.
21. RIH with tubing. Check circulation through stinger and sting into CICR.
22. Attempt to establish injection. If unable to establish injection, call Production Engineer @ 719-859-4942 for path forward.
23. Pump 305 sxs of Class G cement. Sting out. Reverse circulate to clear tubing.
24. POOH with tubing.
25. Ensure hole is full. Run conventional CBL from CICR to 4000'. Call Production Engineer after CBL @ 719-859-4942 to confirm top provides adequate cement coverage.

26. RIH with tubing to 4440'.
27. Pump balanced plug with 20 sxs class G cement from ~4240'-4440'.
28. POOH with tubing. Reverse circulate to clear tubing and lay down.
29. RIH with wireline and set CIBP #3 @ 1075'. Pressure test plug to 500 psi.
30. Shoot squeeze holes @ 1065'.
31. Circulate class G cement to surface (total volume is ~325 sxs). Shut-in, WOC 4 hours and tag plug.
32. Top off both casing and annulus if necessary.
33. ND BOP, RDMO pulling unit.
34. Cut off casing 4' below ground level.
35. Weld on metal plate and dry hole marker.
36. Notify Integrity Department to properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment is complete.
37. Restore surface location.
38. Ensure all cement tickets are mailed or emailed to the Denver office for subsequent reporting.