



## **Ione 6-0-10**

### **CBL/Annular Fill**

**May 25, 2016**

Engineer:	Matt Cook
Workover Coordinator:	Mark Balderston
Production Group Lead:	Megan Molholm
DJ Team Lead:	Kelli Poppenhagen

#### **Attachments**

Attachment 1 – Wellbore Diagram  
Attachment 2 – Proposed Wellbore Diagram

**Objective:**

Pump annular fill from 3,500-ft to surface.

**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**

Bradenhead remediation

**Additional COGCC COAs**

No COAs have been provided yet for this procedure. (MNC – 05/25/2016)

**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.

**Procedure:**

1. RU Slick line, run gauge ring, and pull plunger and bumper spring.
2. 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.
3. MIRU pulling unit.
4. Kill well with produced water.
5. ND wellhead, NU BOP.
6. Un-land & POOH with tubing.
7. RU E-line and RIH and set RBP @ 7200' and pressure test plug to 500 psi. Dump 1 sx sand on top of plug.
8. Un-land 4-1/2" production casing.
9. NU annular fill wellhead and RIH down 4-1/2" by 8-5/8" annulus with 1-1/4" tubing 3,500'.
10. Establish circulation and pump 75 sxs of Class G cement from ~3,500' to 3,200'.
11. PU tubing to 3,200'. Establish circulation and pump 75 sxs of class G cement from ~3,200' to 2,900'.
12. PU tubing to 2,900'. Establish circulation and pump 75 sxs of class G cement from ~2,900' to 2,600'.
13. PU tubing to 2,600'. Establish circulation and pump 75 sxs of class G cement from ~2,600' to 2,300'.
14. PU tubing to 2,300'. Establish circulation and pump 75 sxs of class G cement from ~2,300' to 2,000'.
15. PU tubing to 2,000'. Establish circulation and pump 75 sxs of class G cement from ~2,000' to 1,700'.
16. PU tubing to 1,700'. Establish circulation and pump 75 sxs of class G cement from ~1,700' to 1,400'.
17. PU tubing to 1,400'. Establish circulation and pump 75 sxs of class G cement from ~1,400' to 1,100'.
18. PU tubing to 1,100'. Establish circulation and pump 270 sxs of class G neat cement, taking returns up annulus to surface.
19. POOH and lay down 1-1/4" tubing.
20. ND annular fill wellhead.
21. Re-land 4-1/2" casing and ensure hole is full.
22. RU E-line and run conventional CBL from RBP to surface. Send CBL to and contact production engineer (matthew.cook@encana.com) after CBL to confirm adequate cement coverage.
23. RD E-line.
24. RIH with 2-3/8" tubing, circulate and pull RBP.
25. Hydro test tubing.
26. RIH and land 2-3/8" tubing @ 8,115'.
27. ND BOP, NU 5K wellhead.
28. Swab well back in.

29. RDMO pulling unit.
30. Ensure all cement tickets are emailed to the Denver office for subsequent reporting. Emails shall be sent to Production Engineer, Workover Coordinator, and Production Technician.
31. Submit Form 5 Drilling Completion report documenting all placed cement. Include CBL with this form.

**End of Procedure**