

Document Number:  
 400879236  
 Date Received:  
 08/04/2015

**WELL ABANDONMENT REPORT**

This form is to be submitted as an Intent to Abandon whenever an abandonment is planned on a borehole. After the abandonment is complete, this form shall again be submitted as a Subsequent Report of the actual work completed. The approved intent shall be valid for six months after the approval date, after that period, a new intent will be required. Attachments required with the Intent to Abandon are wellbore diagrams of the current configuration and the proposed configuration with plugs set.  
 A Subsequent Report of Abandonment shall indicate the actual work completed. Attachments required with a Subsequent Report are a wellbore diagram showing plugs that were set and casing remaining in the hole, the job summaries from all plugging contractors used, including wireline and cementing (third party verification) and any logs that may have been run during abandonment.

OGCC Operator Number: 100185 Contact Name: Erin Lind  
 Name of Operator: ENCANA OIL & GAS (USA) INC Phone: (720) 876-5827  
 Address: 370 17TH ST STE 1700 Fax: \_\_\_\_\_  
 City: DENVER State: CO Zip: 80202- Email: erin.lind@encana.com  
**For "Intent" 24 hour notice required,** Name: Peterson, Tom Tel: (303) 815-9641  
**COGCC contact:** Email: tom.peterson@state.co.us

API Number 05-123-22988-00 Well Name: WOOLEY Well Number: 12-7  
 Location: QtrQtr: SWNW Section: 7 Township: 1N Range: 68W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_  
 Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon      Subsequent Report of Abandonment

*Only Complete the Following Background Information for Intent to Abandon*  
 Latitude: 40.067215 Longitude: -105.053741  
 GPS Data:  
 Date of Measurement: 06/04/2009 PDOP Reading: 1.5 GPS Instrument Operator's Name: PLinderholm  
 Reason for Abandonment:  Dry     Production for Sub-economic     Mechanical Problems  
 Other OFFSET TO OTHER ENCANA HORIZONTAL WELLS  
 Casing to be pulled:  Yes     No    Estimated Depth: \_\_\_\_\_  
 Fish in Hole:  Yes     No    If yes, explain details below  
 Wellbore has Uncemented Casing leaks:  Yes     No    If yes, explain details below  
 Details: \_\_\_\_\_

**Current and Previously Abandoned Zones**

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
J SAND	8165	8198			
NIOBRARA-CODELL	7490	7754			

Total: 2 zone(s)

**Casing History**

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	815	570	815	0	VISU
1ST	7+7/8	4+1/2	11.6	8,321	250	8,321	7,885	CBL
S.C. 1.1				5,102	305	5,102	3,880	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8100 with 4 sacks cmt on top. CIBP #2: Depth 7440 with 60 sacks cmt on top.  
 CIBP #3: Depth 850 with 245 sacks cmt on top. CIBP #4: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.  
 CIBP #5: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 30 sks cmt from 7440 ft. to 7800 ft. Plug Type: CASING Plug Tagged:   
 Set 100 sks cmt from 4240 ft. to 5578 ft. Plug Type: CASING Plug Tagged:   
 Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
 Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
 Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
 Perforate and squeeze at 7430 ft. with 60 sacks. Leave at least 100 ft. in casing 7380 CICR Depth  
 Perforate and squeeze at 840 ft. with 245 sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
 Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
(Cast Iron Cement Retainer Depth)  
 Set \_\_\_\_\_ sacks half in. half out surface casing from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Tagged:   
 Set \_\_\_\_\_ sacks at surface  
 Cut four feet below ground level, weld on plate Above Ground Dry-Hole Marker:  Yes  No  
 Set \_\_\_\_\_ sacks in rat hole Set \_\_\_\_\_ sacks in mouse hole

### Additional Plugging Information for Subsequent Report Only

Casing Recovered: \_\_\_\_\_ ft. of \_\_\_\_\_ inch casing Plugging Date: \_\_\_\_\_  
 \*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_  
 Type of Cement and Additives Used: \_\_\_\_\_  
 Flowline/Pipeline has been abandoned per Rule 1103  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

- Procedure:
1. Submit form for Ground Disturbance Permit.
  2. Notify Automation and Production Department.
  3. RU Slickline and pull plunger and bumper spring.
  4. 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.
  5. RU flowback and bleed off pressure and flare if needed.
  6. MIRU pulling unit. Kill well with produced water.
  7. ND wellhead, NU BOP.
  8. Un-land Tubing.
  9. POOH with tubing.
  10. Set RBP with wireline above Niobrara perms, test plug and load hole.
  11. Run conventional CBL under pressure from RBP to surface at 1000 psi. Call Production Engineer after CBL to confirm @ 719-859-4942. Adjust procedure accordingly based on results of CBL.
  12. Pull RBP using braided line truck.
  13. RIH and set CIBP #1 @ 8100' (65' above top J Sand perforation). Ensure that CIBP is set in the middle of the joint of casing and pressure test plug to 500 psi.

14. RIH and dump bail 4 sxs of Class G Neat cement on top of CIBP (50' of cement).
15. RIH with tubing to 7800' and pump balanced plug #1 with 30 sxs class G cement from ~7440'-7800'.
16. POOH with tubing from 7440'. Reverse circulate to clear tubing.
17. RIH with wireline and set CIBP #2 @ 7440'. Pressure test plug to 500 psi.
18. RIH and shoot squeeze holes against CIBP @ 7430'. Run injection test. If unable to establish injection, call Production Engineer @ 719-859-4942.
19. RIH and set CICR @ 7380'.
20. RIH with tubing. Check circulation through stinger and sting into CICR.
21. Attempt to establish injection. If unable to establish injection Call Production Engineer @ 719-859-4942 for path forward.
22. Pump 60 sxs of Class G cement. Sting out.
23. POOH with tubing. Lay down 1 jt. Reverse circulate to clear tubing.
24. Load hole and run conventional CBL under pressure from CICR to 5440'. Call Production Engineer after CBL to confirm @ 719-859-4942.
25. RIH with tubing to 5578' and pump balanced plug #2 with 100 sxs class G cement from ~4240'-5578'.
26. POOH with tubing. Reverse circulate to clear tubing and lay down all pipe.
27. RIH and Set CIBP #3 @ 850'. Pressure test plug to 500 psi.
28. Shoot squeeze holes @ 840'.
29. Circulate Class G cement to surface (total volume is ~245 sxs). Shut-in, WOC 4 hours and tag.
30. Top off both casing and annulus if necessary.
31. ND BOP, RDMO pulling unit.
32. Cut off casing 4' below ground level.
33. Weld on metal plate and dry hole marker.
34. Notify Integrity Department to properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment is complete.
35. Restore surface location.
36. Ensure all cement tickets are mailed or emailed to the Denver office for subsequent reporting.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Erin Lind  
 Title: Regulatory Analyst Date: 8/4/2015 Email: erin.lind@encana.com

Based on the information provided herein, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: SCHLAGENHAUF, MARK Date: 8/11/2015

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 2/10/2016

<u>COA Type</u>	<u>Description</u>
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) For 840' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 665' or shallower. If shoe plug not circulated to surface then place 10-40 sx inside casing and annulus at surface. Leave at least 100' for each plug. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 4) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
400879236	FORM 6 INTENT SUBMITTED
400879302	WELLBORE DIAGRAM

Total Attach: 2 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 10/17/2006	8/7/2015 11:09:03 AM

Total: 1 comment(s)