

FORM  
6Rev  
12/05

## State of Colorado

## Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

400867094

Date Received:

07/13/2015

## 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: Toby Sachen

Name of Operator: ENCANA OIL &amp; GAS (USA) INC

Phone: (720) 876-5845

Address: 370 17TH ST STE 1700

Fax:

City: DENVER State: CO Zip: 80202-

Email: toby.sachen@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 05-123-08493-00

Well Name: NELSON

Well Number: 1

Location: QtrQtr: NESW Section: 23 Township: 2N 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: 40.120557

Longitude: -104.974449

GPS Data:

Date of Measurement: 04/12/2010

PDOP Reading: 4.5

GPS Instrument Operator's Name: bstoeppel

Reason for Abandonment: ☐ Dry ☒ Production for Sub-economic ☐ Mechanical Problems☐ OtherCasing to be pulled: ☐ Yes ☒ No Estimated Depth: 8095Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore 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	7936	7963			

Total: 1 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	425	375	425	0	VISU
1ST	7+7/8	4+1/2	11.6	8,093	250	8,093	7,000	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7870 with 4 sacks cmt on top. CIBP #2: Depth 700 with 200 sacks cmt on top.  
CIBP #3: Depth \_\_\_\_\_ with \_\_\_\_\_ 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 35 sks cmt from 7025 ft. to 7425 ft. Plug Type: CASING Plug Tagged: ☐  
Set 20 sks cmt from 4100 ft. to 4350 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 4400 ft. with 70 sacks. Leave at least 100 ft. in casing 4350 CICR Depth

Perforate and squeeze at 690 ft. with 200 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 electronic Form 42 to COGGC 48 hours prior to MIRU.
2. Prepare for Ground Disturbance and submit for One Call.
3. Notify Automation and Production Department.
4. RU Slick line and pull standing valve and plunger.
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.
10. POOH with tubing.
11. RU E-line. Run gauge ring.
12. RIH and set CIBP #1 @ 7870' (66' above top J Sand perforation). Ensure that CIBP is set in the middle of the joint of casing, load hole, and pressure test plug to 500 psi.
13. Run conventional CBL from CIBP to surface. Call Production Engineer after CBL to confirm top of cement @ 719-859-4942 and receive path forward.
14. RIH and dump bail 4 sxs of Class G Neat cement on top of CIBP (50' of cement).
15. RIH with tubing and pump balanced plug #1 with 35 sxs Class G cement from ~7025'-7425'.
16. POOH with tubing from 7025'. Reverse circulate to clear tubing.
17. RIH and shoot squeeze holes @ 4400'. Run injection test. If unable to establish injection, call Production Engineer @ 719-859-4942.
18. RIH with wireline and set CICR @ 4350'.
19. RIH with tubing. Check circulation through stinger and sting into CICR.
20. Attempt to establish injection. If unable to establish injection, call Production Engineer @ 719-859-4942 for path forward.
21. Pump 70 sxs of Class G cement. Sting out. Reverse circulate to clear tubing.
22. POOH with tubing.
23. Ensure hole is full. Run conventional CBL from CICR to 4000'. Call Production Engineer after CBL to confirm @ 719-859-4942.
24. RIH with tubing.
25. Pump balanced plug #2 against CICR with 20 sxs of Class G cement from ~4100'-4350'.
26. POOH with tubing. Reverse circulate to clear tubing and lay down.
27. RIH with wireline and set CIBP #2 @ 700'. Pressure test plug to 500 psi.
28. Shoot squeeze holes @ 690'.
29. Circulate Class G cement to surface (total volume is ~200 sxs). Shut-in, WOC 4 hours and tag plug.
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 as per Rule 1103. File electronic Form 6 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: Toby Sachen  
Title: Regulatory Analyst Date: 7/13/2015 Email: toby.sachen@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

<b><u>COA Type</u></b>	<b><u>Description</u></b>
	<p>Note change in plugging procedure:</p> <ol style="list-style-type: none"> <li>1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.</li> <li>2) No CBL on file. Run CBL to verify the top of primary cement is at least 200' over Niobrara and at least 200' below Shannon to 200' above Sussex as all these zones are productive in this area. If cement in either interval is not present add this coverage by perforating and squeezing.</li> <li>3) Deepen CIBP #2 from 600' to 700' based upon induction log aquifer zones.</li> <li>4) Shoot squeeze holes at 690' instead of 590'. Adjust cement volumes upwards from proposed 180 sxs accordingly.</li> <li>5) For 690' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 375' 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.</li> <li>6) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</li> <li>7) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</li> </ol>

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400867094	FORM 6 INTENT SUBMITTED
400867104	PROPOSED PLUGGING PROCEDURE
400867105	WELLBORE DIAGRAM

Total Attach: 3 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Well Completion Report dated 3/19/1976.	7/20/2015 9:26:55 AM

Total: 1 comment(s)