

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



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Document Number:

400818941

Date Received:

04/01/2015

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 & 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 05-123-25893-00

Well Name: DUCKWORTH

Well Number: 6-0-16

Location: QtrQtr: SENE Section: 16 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: 40.141484

Longitude: -105.002435

GPS Data:

Date of Measurement: 01/07/2009

PDOP Reading: 3.0

GPS Instrument Operator's Name: ROB THOMAS

Reason for Abandonment: ☐ Dry ☐ Production for Sub-economic ☒ Mechanical Problems☐ OtherCasing to be pulled: ☐ Yes ☒ No

Estimated Depth:

Fish in Hole: ☐ Yes ☐ No If yes, explain details belowWellbore has Uncemented Casing leaks: ☒ Yes ☐ No If yes, explain details below

Details: parted casing @ 6485'

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
J SAND	8082	8100			
NIOBRARA-CODELL	7482	7670			

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	729	340	729	0	VISU
1ST	7+7/8	4+1/2	11.6	8,207	230	8,207	6,900	CBL
S.C. 1.1				5,270	300	5,295	3,800	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 780 with _____ sacks cmt on top. CIBP #2: Depth _____ with _____ 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 _____ 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: ☐
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 6400 ft. with 510 sacks. Leave at least 100 ft. in casing 6400 CICR Depth

Perforate and squeeze at 770 ft. with 246 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 COGCC Form 42, 48 hours prior to MIRU.
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. Kill well with produced water.
4. RU wireline and pull production tools. Gyro well down to the seat nipple (set @ 6,444'). RD wireline.
5. MIRU pulling unit.
6. ND wellhead, NU BOP.
7. RU wireline.
8. RIH and set CICR @ 6400' (~ 85' above the csg part). Ensure that CICR is set in the middle of the joint of casing.
9. RD wireline. RU pulling unit.
10. TIH with workstring. Sting into CICR. Squeeze/fill 4-1/2" casing AND 7-7/8" hole by 4-1/2" csg annulus with 510 sx of Class G Neat cement (assumes 1.15 yield and includes 10% excess).
11. Sting out. Fill prod csg with produced water. POOH with workstring. RD pulling unit. RU wireline.
12. RIH and set CIBP @ 780'. Ensure that CIBP is set in the middle of the joint of casing.
13. RIH and shoot four squeeze holes at 770'. POOH and ensure all shots were fired.
14. Establish injection through squeeze holes.
15. Pump 246 sx of Class G Neat cement in 4-1/2" casing to surface AND into 8-5/8" csg by 4-1/2" csg annulus to surface (assumes 1.15 yield and includes 10% excess).
16. WOC for at least 4 hours and top off casing and annulus with cement as necessary.
17. ND BOP, RDMO pulling unit.
18. Cut off casing 4' below ground level.
19. Weld on metal plate and dry hole marker.
20. Restore surface location.
21. 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: 4/1/2015 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: 4/2/2015

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 10/1/2015

<u>COA Type</u>	<u>Description</u>
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) If unable to pull casing contact COGCC for plugging modifications. 3) For 770' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 679' 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. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400818941	FORM 6 INTENT SUBMITTED
400818965	PROPOSED PLUGGING PROCEDURE
400818993	WELLBORE DIAGRAM
400818994	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Added visu and CBL to status tabs on casing history. Changed reason for plugging from sub-economic production to mechanical problems due to parted casing @ 6485'. Added stage tool cement to casing history.	4/1/2015 4:58:02 PM
Permit	Corrected Niobrara perms from 7842-7670 to 7482-7670. Permitting Review Complete.	4/1/2015 3:48:53 PM
Permit	Well Completion Report dated 2/3/2009. ON HOLD: requesting corrected NB perms.	4/1/2015 3:41:41 PM

Total: 3 comment(s)