

Document Number:  
401547044

Date Received:  
02/15/2018

**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: 69175 Contact Name: Jenifer Hakkarinen

Name of Operator: PDC ENERGY INC Phone: (303) 8605800

Address: 1775 SHERMAN STREET - STE 3000 Fax: \_\_\_\_\_

City: DENVER State: CO Zip: 80203 Email: Jenifer.Hakkarinen@pdce.com

**For "Intent" 24 hour notice required,** Name: O'Donnell, Shaun Tel: (720) 305-8280

**COGCC contact:** Email: shaun.odonnell@state.co.us

API Number 05-123-23665-00

Well Name: ALM Well Number: 42-33

Location: QtrQtr: SENE Section: 33 Township: 7N Range: 65W 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: 40.532560 Longitude: -104.661170

GPS Data:  
Date of Measurement: 08/24/2006 PDOP Reading: 2.2 GPS Instrument Operator's Name: H.L. TRACEY

Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other \_\_\_\_\_

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
CODELL	7119	7129			

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	451	275	451	0	VISU
1ST	7+7/8	4+1/2	10.5	7,298	775	7,298	0	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7069 with 2 sacks cmt on top. CIBP #2: Depth 6768 with 2 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 3200 ft. to 2775 ft. Plug Type: CASING Plug Tagged:   
 Set 60 sks cmt from 700 ft. to 0 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 \_\_\_\_\_ ft. with \_\_\_\_\_ 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  
 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. \_\_\_\_\_ inch casing Plugging Date: \_\_\_\_\_  
 of \_\_\_\_\_  
 \*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:

Alm 42-33 (05-123-23665)/Plugging Procedure (Intent)  
 Producing Formation: Codell: 7119'-7129'  
 Upper Pierre Aquifer: 2885'-3096'  
 TD: 7321' PBTD: 7263'  
 Surface Casing: 8 5/8" 24# @ 451' w/ 275 sxs  
 Production Casing: 4 1/2" 10.5# @ 7298' w/ 775 sxs cmt (TOC @ Surface' - CBL).  
 Tubing: 2 3/8" tubing set @ 7105' (11/16/2015).  
 Proposed Procedure:  
 1. MIRU pulling unit. Pull 2 3/8" tubing.  
 2. RU wireline company.  
 3. TIH with CIBP. Set BP at 7069'. Top with 2 sxs 15.8#/gal CI G cement.  
 4. TIH with CIBP. Set BP at 6768'. Top with 2 sxs 15.8#/gal CI G cement.  
 5. TIH with tubing to 3200'. RU cementing company. Mix and pump 35 sxs 15.8#/gal CI G cement down tubing (cement coverage from 2775'-3200').  
 6. Pick up tubing to 700'. Mix and pump 60 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.  
 7. Cut surface casing 6' below ground level and weld on cap.

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

Signed: \_\_\_\_\_ Print Name: Jenifer Hakkarinen  
 Title: Reg Tech Date: 2/15/2018 Email: JEnifer.Hakkarinen@pdce.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:

Date: 3/14/2018

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 9/13/2018

<b>COA Type</b>	<b>Description</b>
	1)Submit Form 42 electronically to COGCC 48 hours prior to MIRU 2)Prior to placing the 700' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging requirements. 3)After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours and tag plug – top of plug must be not deeper than 401' and provide minimum 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug. 5)Properly abandon all flowlines. Once flowlines are properly abandoned, file electronic form 42.
	Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.

### Attachment Check List

<b>Att Doc Num</b>	<b>Name</b>
401547044	FORM 6 INTENT SUBMITTED
401547046	WELLBORE DIAGRAM
401547047	WELLBORE DIAGRAM
401547048	GYRO SURVEY

Total Attach: 4 Files

### General Comments

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Agency	Bradenhead test dated 02/28/2018 shows no pressure/no flows. No additional Bradenhead test is required.	03/13/2018
Public Room	Pass	02/28/2018
Permit	<ul style="list-style-type: none"> <li>•Added Gyro Survey data to map from Doc# 401547018.</li> <li>•Permitting Review Complete.</li> </ul>	02/28/2018

Total: 3 comment(s)