

Document Number:  
 401641938  
 Date Received:  
 05/16/2018

**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: \_\_\_\_\_ Tel: \_\_\_\_\_  
 COGCC contact: Email: \_\_\_\_\_

API Number 05-123-22850-00 Well Name: GREEN Well Number: 32-24  
 Location: QtrQtr: SWNE Section: 24 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: 40.560330 Longitude: -104.608420  
 GPS Data:  
 Date of Measurement: 04/18/2008 PDOP Reading: 2.2 GPS Instrument Operator's Name: Holly L. Tracy  
 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	7199	7209	04/16/2018	B PLUG CEMENT TOP	7149

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	545	300	545	0	VISU
1ST	7+7/8	4+1/2	10.5	7,374	460	7,374	3,246	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7149 with 2 sacks cmt on top. CIBP #2: Depth 6844 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 276 sks cmt from 850 ft. to 0 ft. Plug Type: STUB PLUG 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 1600 ft. with 155 sacks. Leave at least 100 ft. in casing 1620 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: 750 ft. 4+1/2 inch casing Plugging Date: 04/16/2018  
of \_\_\_\_\_

\*Wireline Contractor: Cased Hole Solutions

\*Cementing Contractor: C&J

Type of Cement and Additives Used: 15.8 PPG CL G + 2% CaCl

Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

\*ATTACH JOB SUMMARY

#### Technical Detail/Comments:

Green 32-24 (05-123-22850)/Plugging Procedure

Producing Formation: Codell: 7199'-7209'

Upper Pierre Aquifer: 2621'-2698'

TD: 7384' PBTD: 7350'

Surface Casing: 8 5/8" 24# @ 545' w/ 300 sxs

Production Casing: 4 1/2" 10.5# @ 7374' w/ 460 sxs cmt (TOC @ 3246' - CBL).

Tubing: 2 3/8" tubing set @ 7182' (9/7/2005).

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.

2. RU wireline company.

3. TIH with CIBP. Set BP at 7149'. Top with 2 sxs 15.8#/gal CI G cement.

4. TIH with CIBP. Set BP at 6844'. Top with 2 sxs 15.8#/gal CI G cement.

5. TIH with casing cutter. Cut 4 1/2" casing at 1900'. Unable to Pull cut casing. Ran CBL from 1900' to surface and found heavy mud from 1400'-1570'. Contact COGCC engineer for approval to shoot squeeze holes.

6. TIH with perf gun to 1600' shoot 6 holes. Set CICR at 1620'. Mix and pumped 155 sxs of CL G 15.8 PPG + 2% CaCl cement (145 sxs below retainer 10 sxs on top of retainer)

7. TIH with casing cutter. Cut 4 1/2" casing at 750'.

8. TIH with tubing to 850'. RU cementing company. Mix and pump 276 sxs 15.8#/gal CI G + 2% CaCl cement down tubing to surface.

9. 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: 5/16/2018

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: Jacobson, Eric

Date: 12/11/2018

**CONDITIONS OF APPROVAL, IF ANY:**

<b>COA Type</b>	<b>Description</b>

**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
401641938	FORM 6 SUBSEQUENT SUBMITTED
401641952	WELLBORE DIAGRAM
401641959	CEMENT BOND LOG
401641961	CEMENT JOB SUMMARY

Total Attach: 4 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
		Stamp Upon Approval

Total: 0 comment(s)