

Document Number:  
401530890

Date Received:  
01/31/2018

**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 05-123-22851-00 Well Number: 11-24

Well Name: GREEN

Location: QtrQtr: NWNW 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: 40.564310 Longitude: -104.618000

GPS Data:  
Date of Measurement: 04/18/2008 PDOP Reading: 2.3 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: 3000

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	7220	7228			

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	544	300	544	0	VISU
1ST	7+7/8	4+1/2	10.5	7,395	430	7,395	3,412	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7170 with 2 sacks cmt on top. CIBP #2: Depth 6904 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 60 sks cmt from 3125 ft. to 2900 ft. Plug Type: STUB PLUG Plug Tagged:   
Set 150 sks cmt from 2840 ft. to 2580 ft. Plug Type: OPEN HOLE Plug Tagged:   
Set 550 sks cmt from 750 ft. to 0 ft. Plug Type: OPEN HOLE 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:

Green 11-24 (05-123-22851)/Plugging Procedure (Intent)  
Producing Formation: Codell: 7220'-7228'  
Upper Pierre Aquifer: 2688'-2732'  
TD: 7413' PBTD: 7350'  
Surface Casing: 8 5/8" 24# @ 544' w/ 300 sxs  
Production Casing: 4 1/2" 10.5# @ 7395' w/ 430 sxs cmt (TOC @ 3412' - CBL).

Tubing: 2 3/8" tubing set @ 7109' (11/11/2015).

Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7170'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set BP at 6904'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with casing cutter. Cut 4 1/2" casing at 3000'. Pull cut casing.
6. TIH with tubing to 3125'. RU cementing company. Mix and pump 60 sxs 15.8#/gal CI G cement with 2% CaCl down tubing.
7. Pick up tubing to 2840'. Mix and pump 150 sxs 15.8#/gal CI G cement down tubing.
8. Pick up tubing to 750'. Mix and pump 550 sxs 15.8#/gal CI G cement down tubing. Cement should circulate 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: 1/31/2018 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, MIKE

COGCC Approved:

Date: 3/5/2018

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 9/4/2018

**COA Type**

**Description**

	1)Submit Form 42 electronically to COGCC 48 hours prior to MIRU 2)Prior to placing the 750' 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 494' and provide minimum 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug. 4)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**

**Att Doc Num**

**Name**

401530890	FORM 6 INTENT SUBMITTED
401530893	WELLBORE DIAGRAM
401530894	WELLBORE DIAGRAM
401530895	GYRO SURVEY

Total Attach: 4 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

Engineer	Bradenhead test dated 02/13/2018 shows 1 psi pressure/no flows. No additional Bradenhead test is required.	03/05/2018
Permit	pass	02/15/2018
Public Room	Pass	02/14/2018

Total: 3 comment(s)