

FORM  
6Rev  
02/20

## 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:

402406180

Date Received:

## 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: Valerie Danson

Name of Operator: PDC ENERGY INC

Phone: (970) 506-9272

Address: 1775 SHERMAN STREET - STE 3000

Fax:

City: DENVER State: CO Zip: 80203

Email: valerie.danson@pdce.com

**For "Intent" 24 hour notice required,**

Name: Evins, Bret

Tel: (970) 420-6699

**COGCC contact:**

Email: bret.evins@state.co.us

Type of Well Abandonment Report: ☒ Notice of Intent to Abandon ☐ Subsequent Report of Abandonment

API Number 05-123-14481-00

Well Name: CULBREATH

Well Number: 23-21

Location: QtrQtr: NESW Section: 21 Township: 6N Range: 64W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 67723

Field Name: WATTENBERG

Field Number: 90750

## Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.469690 Longitude: -104.556580

GPS Data: GPS Quality Value: 1.3 Type of GPS Quality Value: Date of Measurement: 06/19/2010

GPS Instrument Operator's Name: Holly L. Tracy

Reason for Abandonment: ☐ Dry ☒ Production 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:

## Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
NIOBRARA-FT HAYS-CODELL	6631	6944	05/01/2017	B PLUG CEMENT TOP	6581

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	314	175	314	0	VISU
1ST	7+7/8	4+1/2	11.6	7,040	250	7,040	6,328	CBL
S.C. 1.1				1,143	530	1,143	0	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth \_\_\_\_\_ 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 10 sks cmt from 3014 ft. to 2883 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: ☐  
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged: ☐

Perforate and squeeze at 3200 ft. with 70 sacks. Leave at least 100 ft. in casing 3015 CICR Depth

Perforate and squeeze at 1500 ft. with 48 sacks. Leave at least 100 ft. in casing 1360 CICR Depth

Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 103 sacks half in. half out surface casing from 1359 ft. to 0 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 Cut and Cap Date: \_\_\_\_\_  
of \_\_\_\_\_

\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used: \_\_\_\_\_

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

#### Technical Detail/Comments:

Culbreath 23-21 (05-123-14481)/Plugging Procedure (Intent)

Producing Formation: Niobrara/Ft Hays/Codell: 6631'-6944'

Upper Pierre Aquifer: 380'-1400'

TD: 7040' PBTD: 7035' (5/1/2017)

Surface Casing: 8 5/8" 24# @ 314' w/ 175 sxs

Production Casing: 4 1/2" 11.6# @ 7040' w/ 250 sxs cmt (TOC @ 6328' - CBL)

Annular Fill @ 1143' w/ 530 sxs cmt (TOC @ surface - CBL)

Existing CIBP set @ 6581' w/ 2 sxs cmt (5/1/2017)

Existing CIBP set @ 6555' w/ 2 sxs cmt (2/25/2019)

Tubing: 2 3/8" tubing set @ 6229' (2/25/2019)

Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company. TIH and tag dump bail of existing CIBP @ 6555'.
3. TIH with perf gun. Shoot lower squeeze holes at 3200' and upper squeeze holes at 3000'.
4. TIH with CICR. Set CICR at 3015'. RU cementing company. Sting in and pump 80 sxs 15.8#/gal CI G cement. Sting out and leave 10 sxs (of the 80 sxs) cement on top of CICR.
5. TIH with perf gun. Shoot lower squeeze holes at 1500' and upper squeeze holes at 1355'.
6. TIH with CICR. Set CICR at 1360'. RU cementing company. Sting in and pump 48 sxs 15.8#/gal CI G cement. Sting out and pump 103 sxs on top of CICR (total of 151 sxs cement). 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: Valerie Danson

Title: Reg Tech

Date: \_\_\_\_\_

Email: valerie.danson@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: \_\_\_\_\_

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_

Expiration Date: \_\_\_\_\_

<u>COA Type</u>	<u>Description</u>
-----------------	--------------------

--	--

### **Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
--------------------	-------------

402406181	WELLBORE DIAGRAM
402406182	WELLBORE DIAGRAM

Total Attach: 2 Files

### **General Comments**

<u>User Group</u>	<u>Comment</u>
-------------------	----------------

<u>Comment Date</u>
---------------------

		Stamp Upon Approval
--	--	---------------------

Total: 0 comment(s)