

Document Number:  
403006545

Date Received:  
04/06/2022

**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: \_\_\_\_\_ Tel: \_\_\_\_\_  
 Email: \_\_\_\_\_

**COGCC contact:** \_\_\_\_\_

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

API Number 05-123-16472-00  
 Well Name: HUNGENBERG Well Number: 13-12F  
 Location: QtrQtr: NWSW Section: 13 Township: 4N Range: 66W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: 61086  
 Field Name: WATTENBERG Field Number: 90750

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

Latitude: 40.310780 Longitude: -104.731920  
 GPS Data: GPS Quality Value: 2.3 Type of GPS Quality Value: PDOP Date of Measurement: 06/28/2006

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
NIOBRARA-CODELL	6894	7219	02/07/2022	B PLUG CEMENT TOP	6847

Total: 1 zone(s)

**Casing History**

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	J55	23	0	520	360	520	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7342	490	7342	3610	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6847 with 2 sacks cmt on top. CIBP #2: Depth 4088 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 100 sks cmt from 2551 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged:   
 Set 110 sks cmt from 1460 ft. to 1233 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:   
 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 396 sacks half in. half out surface casing from 745 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: 2500 ft. of 4+1/2 inch casing Number of Days from Setting Surface Plug to Capping or Sealing the Well: 48  
 Surface Plug Setting Date: 02/09/2022 Cut and Cap Date: 03/29/2022  
 \*Wireline Contractor: SureFire Wireline Services \*Cementing Contractor: DUCO Inc. Cementing Services  
 Type of Cement and Additives Used: Class G 15.8 PPG Cement  
 Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

#### Technical Detail/Comments:

Hungenberg 13-12F (05-123-16472)/Plugging Procedure  
 Producing Formations: Niobrara/Codell: 6894'-7219'

Upper Pierre Aquifer: 234'-1375'  
 FOX Hills: 0-210'

Deepest Water Well: 108'

TD: 7356' PBD: 7,263' (12/29/2011)  
 Surface Casing: 8 5/8" 23# @ 520' w/ 360 sxs cmt  
 Production Casing: 4 1/2" 11.6# @ 7342' w/ 490 sxs cmt (TOC @ 4000' - CBL)

#### Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6847'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Nio perms @ 6894')
4. Run a CBL from 6500' to Surface.
5. TIH with CIBP. Set BP at 4088'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Sussex @ 4138')
6. TIH with casing cutter. Cut 4 1/2" casing @ 2500'. Pull cut casing.
7. TIH with tubing to 2551'. RU cementing company. Mix and pump 100 sx 15.8#/gal CI G cement down tubing. (Stub plug from 2550'-2300') TOC at 2300'.
8. Pick up tubing to 1460'. Mix and pump 110 sx 15.8#/gal CI G cement down tubing. (Pierre coverage from 1457'-1257') TOC tagged at 1233'.
9. Pick up tubing to 745'. Mix and pump 396 sx 15.8#/gal CI G cement down tubing. Cement circulate to surface.
10. Well casing cut and capped per COGCC guidelines at a depth as not to interfere with soil cultivation.

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 Analyst Date: 4/6/2022 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: Jacobson, Eric Date: 8/8/2022

**CONDITIONS OF APPROVAL, IF ANY:**

**Condition of Approval**

**COA Type**                      **Description**

<u>COA Type</u>	<u>Description</u>
0 COA	

**Attachment List**

**Att Doc Num**              **Name**

403006545	FORM 6 SUBSEQUENT SUBMITTED
403006557	CEMENT BOND LOG
403006558	CEMENT JOB SUMMARY
403006559	OTHER
403006560	OTHER
403006561	OPERATIONS SUMMARY
403006562	WELLBORE DIAGRAM

Total Attach: 7 Files

**General Comments**

**User Group**              **Comment**

**Comment Date**

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

Total: 0 comment(s)