

Document Number:  
 403006607  
 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 05-123-16473-00  
 Well Name: HUNGENBERG Well Number: 13-13F  
 Location: QtrQtr: SWSW 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: 40.306390 Longitude: -104.731760  
 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	6988	7211	02/02/2022	B PLUG CEMENT TOP	6938

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	512	370	512	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7280	225	7280	5740	CBL
S.C. 1.1						7280	300	4560	4060	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6938 with 2 sacks cmt on top. CIBP #2: Depth 4092 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 2566 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged:   
 Set 110 sks cmt from 1461 ft. to 1212 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 360 sacks half in. half out surface casing from 714 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: 53  
 Surface Plug Setting Date: 02/04/2022 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 13-13F (05-123-16473)/Plugging Procedure  
 Producing Formations: Niobrara/Codell: 6988'-7211'

Upper Pierre Aquifer: 370'-1360'  
 FOX Hills: 0-213'

Deepest Water Well: 120'

TD: 7316' PBD: 7,240' (4/2/2008)  
 Surface Casing: 8 5/8" 23# @ 512' w/ 370 sxs cmt  
 Production Casing: 4 1/2" 11.6# @ 7280' w/ 525 sxs cmt (TOC @ 4060' - CBL)

#### Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6938'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Nio perms @ 6988')
4. Ran a CBL from 6500' to Surface (confirmed TOC @ 4060', log not kept).
5. TIH with CIBP. Set BP at 4092'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Sussex @ 4142')
6. TIH with casing cutter. Cut 4 1/2" casing @ 2500'. Pull cut casing.
7. TIH with tubing to 2566'. 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 1461'. Mix and pump 110 sx 15.8#/gal CI G cement down tubing. (Pierre coverage from 1460'-1260') TOC tagged at 1212'.
9. Pick up tubing to 714'. Mix and pump 360 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.

