

Document Number:  
 402437537

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

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

API Number 05-123-13349-00  
 Well Name: HOFF Well Number: 20-1  
 Location: QtrQtr: SWSE Section: 20 Township: 5N Range: 64W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: 68953  
 Field Name: WATTENBERG Field Number: 90750

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

Latitude: 40.379167 Longitude: -104.571389  
 GPS Data: GPS Quality Value: 2.8 Type of GPS Quality Value: \_\_\_\_\_ Date of Measurement: 04/16/2010  
 GPS Instrument Operator's Name: Chuck Kraft  
 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	6590	6895	02/27/2019	B PLUG CEMENT TOP	6535

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	292	170	292	0	VISU
1ST	7+7/8	4+1/2	15.1	7,003	230	7,003	6,106	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 5 sks cmt from 4024 ft. to 3885 ft. Plug Type: CASING Plug Tagged:   
 Set 88 sks cmt from 1581 ft. to 1228 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:   
 Perforate and squeeze at 4210 ft. with 62 sacks. Leave at least 100 ft. in casing 4025 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 305 sacks half in. half out surface casing from 620 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: 1510 ft. 4+1/2 inch casing Cut and Cap Date: 06/03/2020  
 of  
 \*Wireline Contractor: SureFire Wireline Services \*Cementing Contractor: NexTier  
 Type of Cement and Additives Used: Type III 12.0 PPG Sussex Blend & Type III 14.8 PPG Portland Cement  
 Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

Technical Detail/Comments:

Hoff 20-1 (05-123-13349)/Plugging Procedure  
 Producing Formation: Niobrara/Codell: 6590'-6895'  
 Upper Pierre Aquifer: 420'-1410'  
 TD: 7010' PBTD: 6946' (4/19/2017)  
 Surface Casing: 8 5/8" 24# @ 292' w/ 170 sx cmt  
 Production Casing: 4 1/2" 15.1# @ 7010' w/ 230 sx cmt (TOC @ 6106' - CBL)  
 Existing CIBP @ 6535' w/ 2 sx cmt (2/27/2019)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company. TIH and tag existing dump bail @ 6505'.
3. Run a CBL from 4250' to Surface.
4. TIH with perf gun. Shoot lower squeeze holes at 4210' and upper squeeze holes at 4010'.
5. TIH with CICR. Set CICR at 4025'. RU cementing company. Sting in and pump 67 sxs 12.0#/gal Sussex Blend cement. Sting out and leave 5 sxs (of the 67 sxs) cement on top of CICR. TOC at 3885'.
6. TIH with casing cutter. Cut 4 1/2" casing @ 1510'. Pull cut casing.
7. TIH with tubing to 1581'. Mix and pump 88 sxs 14.8#/gal Type III cement down tubing. (Pierre coverage from 1510'-1310') TOC at 1228'.
8. Pick up tubing to 620'. Mix and pump 305 sxs 14.8#/gal Type III cement down tubing. Cement 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: 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:**

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

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
402437539	CEMENT BOND LOG
402437540	CEMENT JOB SUMMARY
402437541	OPERATIONS SUMMARY
402437542	WELLBORE DIAGRAM

Total Attach: 4 Files

**General Comments**

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

Total: 0 comment(s)