

Document Number:  
402897538

Date Received:  
12/13/2021

**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 05-123-35956-00  
 Well Name: BOOTH Well Number: 31-23  
 Location: QtrQtr: NENW Section: 23 Township: 7N Range: 65W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_  
 Field Name: WATTENBERG Field Number: 90750

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

Latitude: 40.565113 Longitude: -104.631240  
 GPS Data: GPS Quality Value: 2.8 Type of GPS Quality Value: \_\_\_\_\_ Date of Measurement: 05/15/2013

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
CODELL	7729	7743	08/06/2021	B PLUG CEMENT TOP	7679
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	24	0	691	282	691	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7880	922	7880	462	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7679 with 2 sacks cmt on top. CIBP #2: Depth 7420 with 2 sacks cmt on top.  
CIBP #3: Depth 2500 with 2 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 45 sks cmt from 4600 ft. to 4000 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 450 ft. with 97 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 126 sacks half in. half out surface casing from 1460 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. of \_\_\_\_\_ inch casing

Surface Plug Setting Date: 08/10/2021 Cut and Cap Date: 09/23/2021 Number of Days from Setting Surface Plug to Capping or Sealing the Well: 44

\*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:

Booth 31-23 (05-123-35956)/Plugging Procedure  
Producing Formation: Codell: 7729'-7743'

Upper Pierre Aquifer: 380'-1360'

TD: 7894' PBTD: 7852' (10/7/13)

Surface Casing: 8 5/8" 24# @ 691' w/ 282 sxs cmt

Production Casing: 4 1/2" 11.6# @ 7880' w/ 922 sxs (TOC @ 462' - CBL)

#### Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7679'. Top with 2 sx 15.8#/gal CI G cement. (Top of Codell perms @ 7729')
4. TIH with CIBP. Set BP at 7420'. Top with 2 sx 15.8#/gal CI G cement. (Top of Niobrara @ 7470')
5. TIH with tubing to 4600'. RU cementing company. Mix and pump 45 sxs 15.8#/gal CI G cement down tubing. TOC at 4000'. (Cement coverage for the holes that were found in casing from 4500' to 4000' during the CIBP 7679' pressure test.)
6. TIH with CIBP. Set BP at 2500'. Top with 2 sx 15.8#/gal CI G cement.
7. Ran a Strip Log 2500' from Surface (for perf shot verification log not kept).
8. TIH with perf gun. Shoot holes at 450'.
9. TIH with tubing to 1460'. RU cementing company. Mix and pump 126 sxs 15.8#/gal CI G cement down tubing. Cement circulate to surface.
10. Close off casing returns. Hook up cement line to cement flange and pump 97 sxs 15.8#/gal CI G cement downhole and squeeze through perms at 450' into annular space. Cement circulate to surface.
11. 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 Tech Date: 12/13/2021 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: JENKINS, STEVE Date: 2/11/2022

**CONDITIONS OF APPROVAL, IF ANY:**

**Condition of Approval**

<b>COA Type</b>	<b>Description</b>
0 COA	

**Attachment List**

<b>Att Doc Num</b>	<b>Name</b>
402897538	FORM 6 SUBSEQUENT SUBMITTED
402897564	CEMENT JOB SUMMARY
402897565	OTHER
402897566	OPERATIONS SUMMARY
402897567	WELLBORE DIAGRAM

Total Attach: 5 Files

**General Comments**

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

Total: 0 comment(s)