

Document Number:  
402593290

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: \_\_\_\_\_  
 Email: \_\_\_\_\_

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

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

API Number 05-123-19533-00  
 Well Name: LEAFGREN Well Number: 23-17  
 Location: QtrQtr: NESW Section: 17 Township: 6N Range: 65W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: 55931  
 Field Name: EATON Field Number: 19350

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

Latitude: 40.485000 Longitude: -104.690530  
 GPS Data: GPS Quality Value: 4.1 Type of GPS Quality Value: \_\_\_\_\_ Date of Measurement: 06/03/2010

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	7109	7119	01/07/2021	B PLUG CEMENT TOP	7059

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	393	275	393	0	VISU
1ST	7+7/8	3+1/2	J55	9.3	0	7351	150	7351	6528	CBL
S.C. 1.1						4100	190	4100	3350	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7059 with 2 sacks cmt on top. CIBP #2: Depth 6840 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 105 sks cmt from 2617 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged:   
Set 100 sks cmt from 1620 ft. to 1420 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 325 sacks half in. half out surface casing from 650 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 3+1/2 inch casing Number of Days from Setting Surface Plug to Capping or Sealing the Well: 7  
Surface Plug Setting Date: 01/08/2021 Cut and Cap Date: 01/15/2021  
\*Wireline Contractor: Rocky Mtn 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:

Leafgren 23-17 (05-123-19533)/Plugging Procedure  
Producing Formation: Codell: 7109'-7119'  
Upper Pierre Aquifer: 550'-1520'  
TD: 7373' PBTD: 7152' (2/1/2013)  
Surface Casing: 8 5/8" 24# @ 393' w/ 275 sxs cmt  
Production Casing: 3 1/2" 9.3# @ 7352' w/ 150 sxs cmt (TOC @ 6528' - CBL)  
S.C. 1.1 @ 4100' w/ 190 sxs cmt (TOC @ 3350' - CBL)

### Procedure:

1. MIRU pulling unit. Pull 1-1/2" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7059'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Codell perms @ 7109')
4. TIH with CIBP. Set BP at 6840'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 6890')
5. TIH with tubing to 2617'. Mix and pump 5 sxs 15.8#/gal CI G cement down tubing. (2617'-2500')
6. Run a Strip Log from 2700' to Surface (for casing cut verification, log not kept).
7. TIH with casing cutter. Cut 3.5" casing at 2500'. Pull cut casing.
8. TIH with tubing to 2500'. RU cementing company. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Stub plug from 2500'-2300') TOC at 2300'.
9. Wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or fluid migration, contact engineering before continuing operations.
10. TIH with tubing to 1620'. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Pierre coverage from 1620'-1420'). TOC at 1420'.
11. Pick up tubing to 650'. Mix and pump 325 sxs 15.8#/gal CI G cement down tubing. Cement circulate to surface.
12. 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:**

**COA Type**

**Description**

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**Attachment List**

**Att Doc Num**

**Name**

402593291	CEMENT JOB SUMMARY
402593292	OPERATIONS SUMMARY
402593293	WELLBORE DIAGRAM

Total Attach: 3 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

		Stamp Upon Approval
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Total: 0 comment(s)