

**FORM**  
**6**

Rev  
11/20

**State of Colorado**  
**Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

402887297

Date Received:

12/05/2021

**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: Jenifer Hakkarinen  
 Name of Operator: PDC ENERGY INC Phone: (303) 8605800  
 Address: 1775 SHERMAN STREET - STE 3000 Fax: \_\_\_\_\_  
 City: DENVER State: CO Zip: 80203 Email: Jenifer.Hakkarinen@pdce.com

**For "Intent" 24 hour notice required,** Name: Evins, Bret Tel: (970) 420-6699  
**COGCC contact:** Email: bret.evins@state.co.us

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

API Number 05-123-25202-00  
 Well Name: Cockroft Well Number: 41-19  
 Location: QtrQtr: NENE Section: 19 Township: 5N Range: 63W 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: 40.390369 Longitude: -104.471927  
 GPS Data: GPS Quality Value: 1.7 Type of GPS Quality Value: \_\_\_\_\_ Date of Measurement: 06/03/2014  
 Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other Emergency P&A Wellhead Impact  
 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	6577	6583			
NIOBRARA	6305	6410			
Total: 2 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	J-55	24	0	415	330	415	0	VISU
1ST	7+7/8	4+1/2	J-55	11.6	0	6734	862	6734	0	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6255 with 2 sacks cmt on top. CIBP #2: Depth 2750 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 110 sks cmt from 1450 ft. to 0 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 \_\_\_\_\_ 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 \_\_\_\_\_ sacks half in. half out surface casing from \_\_\_\_\_ ft. to \_\_\_\_\_ 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 Number of Days from Setting Surface Plug  
Surface Plug Setting Date: \_\_\_\_\_ Cut and Cap Date: \_\_\_\_\_ to Capping or Sealing the Well: \_\_\_\_\_

\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used: \_\_\_\_\_

Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

Technical Detail/Comments:

Cockroft 41-19 (05-123-25202)/Plugging Procedure (Intent)  
Producing Formation: Niobrara/Codell – 6305'-6583'

Temporarily Abandoned Formations: N/A

Upper Pierre Aquifer: 450'-1350'

TD: 6780' PBD: 6718' (11/1/16)

Surface Casing: 8 5/8" 24# @ 415' w/ 330 sxs cmt

Production Casing: 4 1/2" 11.6# @ 6734' w/ 862 sxs (TOC @ Surface – CBL)

Other in Hole: N/A

Tubing: 2-3/8" tubing @ 6657 (11/1/16)

Proposed Procedure:

1. MIRU. POOH 2-3/8" tubing

2. RU wireline

3. TIH with CIBP. Set BP at 6255'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara/Codell perms @ 6308')

4. TIH with CIBP. Set BP at 2750'. Top with 2 sxs 15.8#/gal CI G cement. (Courtesy plug)

5. 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.

6. TIH with tubing to 1450'. Mix and pump 110 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface. (Pierre coverage from 1450'-Surface)

7. 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: Jenifer Hakkarinen  
Title: Reg Tech Date: 12/5/2021 Email: Jenifer.Hakkarinen@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: BURN, DIANA Date: 12/5/2021

**CONDITIONS OF APPROVAL, IF ANY:** Expiration Date: 6/4/2022

### Condition of Approval

#### COA Type

#### Description

	Operator will implement measures to control emissions to protect health and safety, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public health, welfare, and the environment.
	1) Provide notice of plugging MIRU via electronic Form 42. 2) After placing the plug at 2750', operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations. 3) After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug must be at 365' or shallower and provide 10 sx plug at the surface. 4) Properly abandon flowlines as per Rule 1105. Pursuant to Rule 911.a. Closure of Oil and Gas Facilities, Operator will submit Site Investigation and Remediation Workplans via Form 27 for COGCC prior approval before cutting and capping the plugged well, conducting flowline abandonment, and removing production equipment. Pursuant to Rule 1105.f. Abandonment Verification, within 90 days of an operator completing abandonment requirements for a flowline or crude oil transfer line, an operator must submit a Field Operations Notice, Form 42-Abandonment of Flowlines for on-location flowlines, and a Flowline Report, Form 44, for off-location flowlines or crude oil transfer lines. 5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA listed above has been addressed.
	Formation abandonment of the Codell and Niobrara should be reported separately with the Subsequent Report of Abandonment.
3 COAs	

### Attachment List

#### Att Doc Num

#### Name

402887297	FORM 6 INTENT SUBMITTED
402887298	WELLBORE DIAGRAM
402887299	WELLBORE DIAGRAM

Total Attach: 3 Files

### General Comments

#### User Group

#### Comment

#### Comment Date

Engineer	deepest WW 60'; BrHd test 5/21 = 0; bPAq - 1350'; this is confirming verbal plugging orders due to the fact that there was a wellhead impact - so less than 48 hours notice of MIRU	12/05/2021
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Total: 1 comment(s)