

<b>FORM</b> 6 Rev 11/20	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109		 		DE	ET	OE	ES
	<p style="text-align: right;">Document Number:</p> <p style="text-align: center; font-size: 1.2em;">403446489</p> <p style="text-align: right;">Date Received:</p> <p style="text-align: center;">06/27/2023</p>							

**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: <u>69175</u>	Contact Name: <u>Valerie Danson</u>
Name of Operator: <u>PDC ENERGY INC</u>	Phone: <u>(970) 506-9272</u>
Address: <u>1099 18TH STREET SUITE 1500</u>	Fax: _____
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>	Email: <u>regulatory@pdce.com</u>
<b>For "Intent" 24 hour notice required,</b> Name: <u>Evins, Bret</u> Tel: <u>(970) 420-6699</u> <b>COGCC contact:</b> Email: <u>bret.evins@state.co.us</u>	

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

API Number <u>05-123-14251-00</u>	
Well Name: <u>CARLSON</u>	Well Number: <u>34-7</u>
Location: QtrQtr: <u>SWSE</u> Section: <u>7</u> Township: <u>6N</u> Range: <u>64W</u> Meridian: <u>6</u>	
County: <u>WELD</u>	Federal, Indian or State Lease Number: <u>68898</u>
Field Name: <u>WATTENBERG</u>	Field Number: <u>90750</u>

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

Latitude: 40.495060 Longitude: -104.590830

GPS Data: GPS Quality Value: 3.4 Type of GPS Quality Value: PDOP Date of Measurement: 04/22/2008

Reason for Abandonment:  
 ☐ Dry  
 ☒ Production Sub-economic  
 ☐ Mechanical Problems  
☐ Other \_\_\_\_\_

Casing to be pulled:  
 ☒ Yes  
 ☐ No  
 Estimated Depth: 2500

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	6709	7030			

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	301	175	301	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7177	220	7177	6250	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6659 with 2 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 10 sks cmt from 3354 ft. to 3223 ft. Plug Type: CASING Plug Tagged: ☐  
Set 100 sks cmt from 2550 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged: ☐  
Set 100 sks cmt from 1460 ft. to 1260 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: ☐

Perforate and squeeze at 3540 ft. with 90 sacks. Leave at least 100 ft. in casing 3355 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 189 sacks half in. half out surface casing from 501 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: \_\_\_\_\_ Cut and Cap Date: \_\_\_\_\_ Number of Days from Setting Surface Plug 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:

Carlson 34-7 (05-123-14251)/Plugging Procedure (Intent)

Producing Formations: Niobrara/Codell: 6709'-7030'

Upper Pierre Aquifer: 340'-1360'

TD: 7177' PBTD: 7067' (10/16/13)

Surface Casing: 8 5/8" 24# @ 301' w/ 175 sxs cmt

Production Casing: 4 1/2" 11.6# @ 7177' w/ 220 sxs cmt (TOC @ 6250' - CBL)

Tubing: 2 3/8" tubing set @ 7007' (10/16/2013)

Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6659'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Nio perms @ 6709')
4. TIH with perf gun. Shoot lower squeeze holes at 3540' and upper squeeze holes at 3340'.
5. TIH with CICR. Set CICR at 3355'. RU cementing company. Sting in and pump 100 sxs 15.8#/gal CI G cement. Sting out and leave 10 sxs (of the 100 sxs) cement on top of CICR. (Top of Parkman @ 3590')
6. TIH with casing cutter. Cut 4 1/2" casing @ 2500'. Pull cut casing.
7. TIH with tubing to 2550'. RU cementing company. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Stub plug from 2550'-2300')
8. 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.
9. TIH with tubing to 1460'. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Pierre Coverage from 1460'-1260')
10. Pick up tubing to 501'. Mix and pump 189 sxs 15.8#/gal CI G cement down tubing. Cement should 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.

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: 7/7/2023

**CONDITIONS OF APPROVAL, IF ANY:**
Expiration Date: 1/6/2024

COA Type	Description
	Due to proximity to mapped wetland, Operator will review the stormwater program and implement stormwater BMPs and erosion control measures as needed to prevent fine-grained sediment and impacted stormwater runoff from entering surface water.
	Due to close proximity to Residential Building Units (RBUs): prior to commencing operations, at a minimum, the operator will provide an informational sheet to the owners/occupants of RBUs that are nearby and adjacent to the parcel on which the well is located. The sheet will include the operator's contact information and the nature, timing, and expected duration of the P&A operations.
	<p><b>FLOWLINE AND SITE CLOSURE</b></p> <p>1)Consistent with Rule 911.a, a Form 27 must be approved prior to cut and cap, conducting flowline abandonment, or removing production equipment. Allow 30 days for Director review of the Form 27; include the Form 27 document number on the Form 44 for offsite flowline abandonment (if applicable) and on the Form 6 Subsequent.</p> <p>2)Properly abandon flowlines per Rule 1105. If flowlines will be abandoned in place, include with the Form 27: pressure test results conducted in the prior 12 months as well as identification of any document numbers for a ECMC Spill/Release Report, Form 19, associated with the abandoned line.</p>
	<p>1) Provide 2 business day notice of plugging MIRU via electronic Form 42, and provide 48 hours Notice of Plugging Operations, prior to mobilizing for plugging operations via electronic Form 42. These are 2 separate notifications, required by Rules 405.e and 405.I.</p> <p>2) Prior to placing the 501' plug: verify that all fluid migration (liquid and gas) has been eliminated. If evidence of fluid migration or pressure remains, contact ECMC Engineer for an update to plugging orders.</p> <p>3) After isolation has been verified, pump surface casing shoe plug. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 251' or shallower and provide 10 sx plug at the surface.</p> <p>4) Leave at least 100' of cement in the wellbore for each plug without mechanical isolation.</p> <p>5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA listed above has been addressed.</p>
	Operator shall implement measures to control venting, 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 welfare.
	<p>Prior to starting plugging operations a Bradenhead test shall be performed if there has not been a reported Bradenhead test within the 60 days immediately preceding the start of plugging operations.</p> <p>1) If, before opening the Bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the ECMC within three (3) months of collecting the samples.</p>
6 COAs	

### Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403446489	FORM 6 INTENT SUBMITTED
403446728	WELLBORE DIAGRAM
403446729	WELLBORE DIAGRAM

Total Attach: 3 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	OGLA review complete. Not in HPH.	07/07/2023
Engineer	1) Deepest Water Well within 1 mile = 400'. 2) Fox Hills Bottom- N/A, per SB5.	07/06/2023
Engineer	Emailed the operator for a copy of the CBL, 7/6/23. Received copy of the CBL, 7/6/23.	07/06/2023
Permit	Confirmed as-drilled well location. No other forms in process. Confirmed productive interval docnum: 200228. Production reporting up-to-date. Reviewed WBDs. Pass.	06/28/2023

Total: 4 comment(s)