

**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



DE	ET	OE	ES
Document Number: 402739489			
Date Received: 07/07/2021			

**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: <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>1775 SHERMAN STREET - STE 3000</u>	Fax: _____
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u>	Email: <u>valerie.danson@pdce.com</u>
<b>For "Intent" 24 hour notice required,</b> Name: <u>Santistevan, Brittani</u> Tel: <u>(720) 471-1110</u>	
<b>COGCC contact:</b> Email: <u>brittani.santistevan@state.co.us</u>	

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

API Number <u>05-123-24230-00</u>	Well Name: <u>CHRISTIANSEN</u>	Well Number: <u>35-15</u>
Location: QtrQtr: <u>SWNE</u> Section: <u>35</u> Township: <u>6N</u> Range: <u>67W</u> Meridian: <u>6</u>		
County: <u>WELD</u>	Federal, Indian or State Lease Number: _____	
Field Name: <u>WATTENBERG</u>	Field Number: <u>90750</u>	

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

Latitude: 40.444790 Longitude: -104.858150

GPS Data: GPS Quality Value: 3.7 Type of GPS Quality Value: PDOP Date of Measurement: 04/15/2007

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

Casing to be pulled:  Yes  No Estimated Depth: 2000

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	7169	7188			
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	437	240	437	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7349	660	7349	2145	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7119 with 2 sacks cmt on top. CIBP #2: Depth 6764 with 2 sacks cmt on top.  
 CIBP #3: Depth 4557 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 100 sks cmt from 2050 ft. to 1800 ft. Plug Type: STUB PLUG Plug Tagged:   
 Set 100 sks cmt from 1210 ft. to 1010 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 322 sacks half in. half out surface casing from 637 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 Number of Days from Setting Surface Plug to Capping or Sealing the Well: \_\_\_\_\_  
 Surface Plug Setting Date: \_\_\_\_\_ Cut and Cap Date: \_\_\_\_\_  
 \*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_  
 Type of Cement and Additives Used: \_\_\_\_\_  
 Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

#### Technical Detail/Comments:

Christiansen 35-15 (05-123-24230) Plugging Procedure (Intent)  
 Producing Formations: Codell: 7169'-7188'

Upper Pierre Aquifer: 350'-1110'

Deepest Water Well: 32'  
 TD: 7360' PBD: 7327' (11/9/2009)  
 Surface Casing: 8 5/8" 24# @ 437' w/ 240 sxs cmt  
 Production Casing: 4 1/2" 11.6# @ 7349' w/ 660 sxs (TOC @ 2145' - CBL)

Tubing: Unknown tubing data

Proposed Procedure:

1. MIRU. Pull tubing if present.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7119'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Codell perms @ 7169')
4. TIH with CIBP. Set BP at 6764'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 6814')
5. TIH with CIBP. Set BP at 4557'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Shannon @ 4607')
6. Run a CBL from 2200' to Surface.
7. TIH with casing cutter. Cut 4 1/2" casing @ 2000'. Pull cut casing.
8. TIH with tubing to 2050'. RU cementing company. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Stub Plug from 2050'-1800')
9. TIH with tubing to 1210'. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Pierre Coverage from 1210'-1010')
10. 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.
11. Pick up tubing to 637'. Mix and pump 322 sxs 15.8#/gal CI G cement down tubing. Cement should 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: 7/7/2021 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: 7/12/2021

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 1/11/2022

### Condition of Approval

#### **COA Type**

#### **Description**

	<p>For Wells with known Bradenhead pressures:</p> <ol style="list-style-type: none"><li>1) Provide 48 hours notice of plugging MIRU via electronic Form 42.</li><li>2) After placing the shallowest hydrocarbon isolating plug (1210'), operator must wait a sufficient time to confirm static conditions.</li><li>3) After placing plug at 2050' assure that all fluid migration has been eliminated by monitoring the well for a minimum of 8 hours before proceeding to the next plug. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations.</li><li>4) Prior to placing the 637' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders.</li><li>5) 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 287' or shallower and provide at least 10 sx plug at the surface.</li><li>6) Leave at least 100' of cement in the wellbore for each plug.</li><li>7) 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.</li><li>8) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</li></ol>
	<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>
	<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> <ol style="list-style-type: none"><li>1) If, before opening the Bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</li><li>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</li></ol> <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 COGCC within three (3) months of collecting the samples.</p>
3 COAs	

## Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402739489	FORM 6 INTENT SUBMITTED
402739535	WELLBORE DIAGRAM
402739536	WELLBORE DIAGRAM

Total Attach: 3 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Verified as-drilled GPS. Verified perf zone. Verified production reporting. Permitting review complete.	07/09/2021
Engineer	1) Deepest Water Well within 1 mile = 32'. 2) Fox Hills Bottom- N/A, per SB5.	07/09/2021
Engineer	In accordance with the Notice to Operators (NTO): Timing for COGCC Forms adopted on 05/01/2020, this Form 6 Notice of Intent to Abandon is valid for 12 months from the date of approval expiring on 7/09/2022. This NTO does not alter the deadlines for submission of, or compliance with any other Commission rule or Form.	07/09/2021
OGLA	OGLA review complete.	07/08/2021

Total: 4 comment(s)