

**FORM**  
**6**  
Rev  
12/05

**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: 401132582			
Date Received: 10/18/2016			

**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: Gomez, Jason Tel: (970) 573-1277  
**COGCC contact:** Email: jason.gomez@state.co.us

API Number 05-123-13984-00 Well Number: 31-16  
 Well Name: STATE LEASE 81  
 Location: QtrQtr: NWNE Section: 16 Township: 6N Range: 64W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: 67828  
 Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon  Subsequent Report of Abandonment

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

Latitude: 40.491110 Longitude: -104.552970  
 GPS Data:  
 Date of Measurement: 12/07/2008 PDOP Reading: 1.8 GPS Instrument Operator's Name: Holly L. Tracy  
 Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other \_\_\_\_\_  
 Casing to be pulled:  Yes  No Estimated Depth: 980  
 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	7041	7053			
FORT HAYS	7017	7036			
NIOBRARA	6742	6927			

Total: 3 zone(s)

**Casing History**

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	304	175	304	0	VISU
1ST	7+7/8	4+1/2	11.6	7,201	250	7,201	5,975	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6967 with 2 sacks cmt on top. CIBP #2: Depth 6692 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 360 sks cmt from 1030 ft. to 0 ft. Plug Type: STUB PLUG 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 Plugging Date: \_\_\_\_\_  
 \*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_  
 Type of Cement and Additives Used: \_\_\_\_\_  
 Flowline/Pipeline has been abandoned per Rule 1103  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

State Lease 81 31-16 (05-123-13984)/Plugging Procedure (Intent)  
 Producing Formation: Codell 7041'-7053' Fort Hayes 7017'-7036' Niobrara 6742'-6927'  
 TD: 7218' PBTD: 7096'  
 Surface Casing: 8 7/8" 24# @ 304' w/ 175 sks cmt.  
 Production Casing: 4 1/2" 11.6# @ 7201' w/ 250 sks cmt (TOC 5975'CBL).

Tubing: 2 3/8" 4.7# EUE Tubing @ 7025'. (8/20/2015)

Proposed Procedure:

1. MIRU RU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company. Run gyro survey from 7050' to surface.
3. TIH with CIBP. Set bridge plug at 6967'. TIH with dump bailer. Spot 2 sxs cement on top of CIBP at 6575'.
4. TIH with CIBP. Set bridge plug at 6692'. TIH with dump bailer. Spot 2 sxs cement on top of CIBP at 6575'.
5. TIH with casing cutter. Cut 4 1/2" casing at 980'. Pull 4 1/2" casing.
6. TIH with tubing to 1030'. Mix and pump 360 sxs of 15.8#/gal CI G cement. Cement should circulate to surface.
7. 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: Jenfier Hakkarinen  
 Title: Reg Tech Date: 10/18/2016 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: HICKEY, MIKE Date: 10/28/2016

**CONDITIONS OF APPROVAL, IF ANY:**Expiration Date: 4/27/2017**COA Type****Description**

	1)Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2)Properly abandon flowlines. Once flowlines are properly abandoned, file electronic form 42. 3)For 1030' plug: pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours and tag plug – top of plug must be not deeper than 254' and provide minimum 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug.
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**Attachment Check List****Att Doc Num****Name**

401132582	FORM 6 INTENT SUBMITTED
401132603	WELLBORE DIAGRAM
401132605	WELLBORE DIAGRAM

Total Attach: 3 Files

**General Comments****User Group****Comment****Comment Date**

Permit	Will need a 5A showing the Fort Hays. Will need updated form 7 showing Fort Hays as well - before the subsequent form 6 is approved.	10/20/2016 2:59:59 PM
Public Room	Document verification complete 10/18/16	10/18/2016 2:55:58 PM

Total: 2 comment(s)