

Document Number:  
401513612

Date Received:  
01/15/2018

**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: Kelsi Welch  
 Name of Operator: PDC ENERGY INC Phone: (303) 831-3974  
 Address: 1775 SHERMAN STREET - STE 3000 Fax: \_\_\_\_\_  
 City: DENVER State: CO Zip: 80203 Email: kelsi.welch@pdce.com

**For "Intent" 24 hour notice required,** Name: Montoya, John Tel: (970) 397-4124  
 Email: john.montoya@state.co.us

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

API Number 05-123-21378-00 Well Number: 23-11  
 Well Name: WELLS RANCH  
 Location: QtrQtr: NESW Section: 11 Township: 5N Range: 63W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_  
 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: 40.412500 Longitude: -104.406150  
 GPS Data:  
 Date of Measurement: 10/31/2006 PDOP Reading: 3.4 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: \_\_\_\_\_  
 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	6602	6608	12/11/2017	B PLUG CEMENT TOP	6382
NIOBRARA	6432	6437	12/11/2017	B PLUG CEMENT TOP	6382
J SAND	7052	7056	08/14/2003	BRIDGE PLUG	6990

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	413	290	413	0	VISU
1ST	7+7/8	4+1/2	10.5	7,279	200	7,279	6,096	CBL
S.C. 1.1				7,279	230	6,096	2,775	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6990 with 2 sacks cmt on top. CIBP #2: Depth 6382 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 250 sks cmt from 706 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: 620 ft. 4+1/2 inch casing Plugging Date: 12/12/2017  
of  
\*Wireline Contractor: Ranger \*Cementing Contractor: C&J  
Type of Cement and Additives Used: 15.8#/gal CI G cement with 2% CaCl  
Flowline/Pipeline has been abandoned per Rule 1105  Yes  No \*ATTACH JOB SUMMARY

#### Technical Detail/Comments:

Wells Ranch 23-11 (05-123-21378)/Plugging Procedure (Subsequent)  
Producing Formation (Perforations): Niobrara: 6432'-6437' Codell: 6602'-6608' J-Sand: 7052'-7056'  
TD: 7289' PBTD: 7265'  
Surface Casing: 8 5/8" 24# @ 413' w/ 290 sxs  
Production Casing: 4 1/2" 10.5# @ 7279' w/ 430 sxs cmt (TOC @ 2775' - CBL). Existing CIBP @ 6990'.  
Tubing: Unknown.

#### Procedure:

1. MIRU pulling unit. Pull tubing.
2. RU wireline company.
3. Tagged plug at 6970'. Load dump bailer with 2 sxs of 15.8#/gal CI G cement. TIH with dump bailer and spot on top of existing CIBP @ 6990'.
4. TIH with CIBP. Set BP at 6382'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with casing cutter. Cut 4 1/2" casing at 620'. Pull cut casing.
6. TIH with tubing to 706'. RU cementing company. Mix and pump 250 sxs 15.8#/gal CI G cement with 2% CaCl down tubing 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: Kelsi Welch  
Title: Production Tech Date: 1/15/2018 Email: kelsi.welch@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, Eric

COGCC Approved: \_\_\_\_\_

Date: 9/4/2018

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_

<u>COA Type</u>	<u>Description</u>

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
401513612	FORM 6 SUBSEQUENT SUBMITTED
401513615	CEMENT JOB SUMMARY
401513622	WIRELINE JOB SUMMARY
401513623	WELLBORE DIAGRAM

Total Attach: 4 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Form 42 submitted	09/04/2018
Agency	Form 10# 400965840 approved.	08/20/2018
Engineer	Form 10# 400965840 in progress. Waiting for the operator to submit Form 42 for flowline abandonment.	07/10/2018

Total: 3 comment(s)