

FORM  
6Rev  
05/18

## 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:

401258957

Date Received:

04/13/2017

## 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: \_\_\_\_\_ Tel: \_\_\_\_\_

COGCC contact:

Email: \_\_\_\_\_

API Number 05-123-14891-00

Well Name: BILLINGS

Well Number: 44-21

Location: QtrQtr: SESE Section: 21 Township: 6N Range: 66W 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: 40.468611

Longitude: -104.775000

GPS Data:

Date of Measurement: 04/19/2010

PDOP Reading: 1.9

GPS Instrument Operator's Name: Chuck Kraft

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
NIOBRARA	6834	6965	03/14/2017	B PLUG CEMENT TOP	6790
CODELL	7122	7145	01/08/2002	B PLUG CEMENT TOP	6991

Total: 2 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	353	200	353	0	
1ST	7+7/8	3+1/2	9.3	7,249	230	7,249	6,296	

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6790 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 5 sks cmt from 1015 ft. to 870 ft. Plug Type: CASING Plug Tagged: ☐  
Set 269 sks cmt from 870 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: ☐

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: 850 ft. of 3+1/2 inch casing Plugging Date: 03/14/2017

\*Wireline Contractor: Ranger

\*Cementing Contractor: Ranger

Type of Cement and Additives Used: 15.8#/gal CI G cement

Flowline/Pipeline has been abandoned per Rule 1105 ☒ Yes ☐ No

\*ATTACH JOB SUMMARY

#### Technical Detail/Comments:

Billings 44-21 (05-123-14891)/Plugging Procedure (Subsequent)  
Producing Formation: Niobrara 6834'-6965'  
Plugged Back Formation: Codell 7122'-7145'  
Existing CIBP Set At: 6991' with 2 sxs cmt  
TD: 7253' PBD: 7206'  
Surface Casing: 8 5/8" 24# @ 353' w/ 200 sxs.  
Production Casing: 3 1/2" 9.3# @ 7249' w/ 230 sxs cmt. (TOC at 6296' CBL.)

Tubing: 2 1/16" tubing set at 6828'. (4/1/2015)

#### Proposed Procedure:

- 1) MIRU RU pulling unit. Pull 2 1/16" tubing.
- 2) RU wireline company. Run Gyro survey from 6900' to surface.
- 3) TIH with CIBP. Set BP at 6790'. Top with 2 sxs 15.8#/gal CI G cement.
- 4) TIH with tubing to 1015'. RU cementing company. Mix and pump 5 sxs 15.8#/gal CI G cement down tubing to establish stub plug.
- 5) TIH with casing cutter. Cut 3 1/2" casing at 850'. Pull cut casing.
- 6) TIH with tubing to 900'. RU cementing company. Mix and pump 269 sxs 15.8#/gal CI G cement 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: 4/13/2017 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.

COGCC Approved: Jacobson, Eric

Date: 10/15/2018

**CONDITIONS OF APPROVAL, IF ANY:**

<u>COA Type</u>	<u>Description</u>
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**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
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401258957	FORM 6 SUBSEQUENT SUBMITTED
401258966	CEMENT JOB SUMMARY
401258967	WIRELINE JOB SUMMARY
401258986	WELLBORE DIAGRAM

Total Attach: 4 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
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Engineer	Requested gyro from operator. Operator emailed the gyro survey.	05/17/2018
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Total: 1 comment(s)