

FORM  
6Rev  
05/18State 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:<br>401841765 |    |    |    |
| Date Received:<br>11/15/2018  |    |    |    |

## 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: Valerie Danson   |
| Name of Operator: PDC ENERGY INC                 | Phone: (970) 506-9272          |
| Address: 1775 SHERMAN STREET - STE 3000          | Fax:                           |
| City: DENVER State: CO Zip: 80203                | Email: valerie.danson@pdce.com |
| For "Intent" 24 hour notice required, Name: Tel: |                                |
| COGCC contact: Email:                            |                                |

|  |  |
|--|--|
| API Number 05-123-23092-00   | Well Number: 44-27                     |
| Well Name: RICHTER   |  |
| Location: QtrQtr: SESE Section: 27 Township: 7N Range: 64W 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: 40.539330  | Longitude: -104.528360        |
| GPS Data:  |                               |
| Date of Measurement: 07/27/2006  | PDOP Reading: 2.0             |
| GPS Instrument Operator's Name: H.L. Tracy   |                               |
| Reason for Abandonment: <input type="checkbox"/> Dry <input type="checkbox"/> Production Sub-economic <input type="checkbox"/> Mechanical Problems |                               |
| <input type="checkbox"/> Other   |                               |
| Casing to be pulled: <input type="checkbox"/> Yes <input type="checkbox"/> No  | Estimated Depth:              |
| Fish in Hole: <input type="checkbox"/> Yes <input type="checkbox"/> No   | If yes, explain details below |
| Wellbore has Uncemented Casing leaks: <input type="checkbox"/> Yes <input type="checkbox"/> 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    | 7144      | 7148      | 10/17/2018     | B PLUG CEMENT TOP   | 7094       |

Total: 1 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              | 583           | 325          | 583        | 0          | VISU   |
| 1ST         | 7+7/8        | 4+1/2          | 10.5            | 7,281         | 155          | 7,281      | 6,452      | CBL    |
| S.C. 1.1    |              |                |                 | 6,452         | 290          | 6,452      | 3,482      | CBL    |

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7094 with 2 sacks cmt on top. CIBP #2: Depth 6795 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 255 sks cmt from 2029 ft. to 1300 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 270 sacks half in. half out surface casing from 815 ft. to 0 ft. Plug Tagged: ☐

Set 13 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: 1900 ft. 4+1/2 inch casing Plugging Date: 10/18/2018  
of

\*Wireline Contractor: C&J Energy Services

\*Cementing Contractor: C&J Energy Services

Type of Cement and Additives Used: Type III 14.8 PPG Portland Cement

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

\*ATTACH JOB SUMMARY

#### Technical Detail/Comments:

Richter 44-27 (05-123-23092)/Plugging Procedure  
Producing Formation: Codell: 7144'-7148'  
Upper Pierre Aquifer: 755'-1752'  
TD: 7309' PBTD: 7250'  
Surface Casing: 8 5/8" 24# @ 583' w/ 325 sxs  
Production Casing: 4 1/2" 10.5# @ 7281' w/ 445 sxs cmt (TOC @ 3485' - CBL).

#### Procedure:

1. Run gyro survey.
2. MIRU pulling unit. Pull 2 3/8" tubing.
3. RU wireline company.
4. TIH with CIBP. Set BP at 7094'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with CIBP. Set BP at 6795'. Top with 2 sxs 15.8#/gal CI G cement.
6. TIH with casing cutter. Cut 4 1/2" casing at 1900'. Pull cut casing.
7. TIH with tubing to 2029'. RU cementing company. Mix and pump 255 sxs 14.8#/gal Type III cement down tubing. TOC at 1300'.
8. Pick up tubing to 815'. Mix and pump 283 sxs 14.8#/gal Type III cement down tubing. Cement circulate to surface.
9. 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: 11/15/2018

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:

Date: 2/11/2019

**CONDITIONS OF APPROVAL, IF ANY:**

**COA Type**

**Description**

|  |  |
|--|--|
|  |  |
|--|--|

**Attachment Check List**

**Att Doc Num**

**Name**

|           |                             |
|-----------|-----------------------------|
| 401841765 | FORM 6 SUBSEQUENT SUBMITTED |
| 401841792 | CEMENT JOB SUMMARY          |
| 401842210 | WELLBORE DIAGRAM            |

Total Attach: 3 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

|  |  |                     |
|--|--|---------------------|
|  |  | Stamp Upon Approval |
|--|--|---------------------|

Total: 0 comment(s)