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|-------------------------------|----|----|----|
| DE                            | ET | OE | ES |
| Document Number:<br>401506759 |    |    |    |
| Date Received:                |    |    |    |

**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: \_\_\_\_\_ Tel: \_\_\_\_\_  
 Email: \_\_\_\_\_  
**COGCC contact:**

API Number 05-123-22333-00 Well Number: 14-29  
 Well Name: NORTHERN PROP  
 Location: QtrQtr: SWSW Section: 29 Township: 7N Range: 65W 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: 40.540140 Longitude: -104.694750  
 GPS Data:  
 Date of Measurement: 07/29/2006 PDOP Reading: 2.6 GPS Instrument Operator's Name: H.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           | 7288      | 7296      | 11/29/2017     | B PLUG CEMENT TOP   | 6973       |
| NIOBRARA         | 7023      | 7155      | 11/29/2017     | B PLUG CEMENT TOP   | 6973       |
| 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              | 499           | 250          | 499        | 0          | VISU   |
| 1ST         | 7+7/8        | 4+1/2          | 10.5            | 7,495         | 580          | 4,795      | 2,590      | CBL    |
| S.C. 1.1    |              |                |                 | 2,590         | 430          | 2,590      | 0          | CBL    |

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6973 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 63 sks cmt from 705 ft. to 0 ft. Plug Type: CASING 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: 11/29/2017

\*Wireline Contractor: Cased hole solutions \*Cementing Contractor: O-Tex

Type of Cement and Additives Used: 15.8 PPG CL G NEAT

Flowline/Pipeline has been abandoned per Rule 1103  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

Northern Prop 14-29 (05-123-22333)/Plugging Procedure  
Producing Formation (Perforations): Niobrara: 7023'-7155' Codell: 7288'-7296'  
TD: 7503' PBTD: 7425'  
Surface Casing: 8 5/8" 24# @ 449' w/ 250 sxs  
Production Casing: 4 1/2" 10.5# @ 7495' w/ 580 sxs cmt (TOC @ 2590' - CBL). Annular Fill w/ 430 sxs cmt (TOC @ Surface - CBL).

Procedure:

1. Run gyro survey.
2. RU Wireline. Remove stage tool set at 5083' (3/6/2017).
3. MIRU pulling unit. Pull 2 3/8" tubing.
4. RU wireline company.
5. TIH with CIBP. Set BP at 6973'. Top with 2 sxs 15.8#/gal CI G cement.
6. TIH with tubing to 705'. RU cementing company. Mix and pump 63 sxs 15.8#/gal CI G cement down tubing. Cement 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: Jenifer Hakkarinen

Title: Reg TEch Date: \_\_\_\_\_ 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.

