

Document Number:  
 400979389  
 Date Received:  
 01/28/2016

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

API Number 05-123-12675-00 Well Number: 10-1  
 Well Name: SPAUR  
 Location: QtrQtr: NWSW Section: 10 Township: 4N Range: 67W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: 68083  
 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: 40.324720 Longitude: -104.884810  
 GPS Data:  
 Date of Measurement: 04/02/2008 PDOP Reading: 3.8 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: \_\_\_\_\_  
 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  | 6862      | 7095      | 08/28/2015     | B PLUG CEMENT TOP   | 6825       |

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              | 300           | 275          | 300        | 0          | VISU   |
| 1ST         | 7+7/8        | 4+1/2          | 11.6            | 7,284         | 275          | 7,284      | 6,235      | CBL    |

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 4320 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 50 sks cmt from 6805 ft. to 6150 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 500 ft. with 290 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: 12/21/2015  
 \*Wireline Contractor: Magna \*Cementing Contractor: Magna  
 Type of Cement and Additives Used: \_\_\_\_\_  
 Flowline/Pipeline has been abandoned per Rule 1103  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

Spaur 10-1 (05-123-12675)/Plugging Procedure  
 Producing Formation: Niobrara - Codell  
 Existing Perforations: Niobrara 6862'-7095' Codell 7184'-7200'  
 TD: 7284' PBD: 7225'  
 Surface Casing: 8 5/8" 24# @ 300' w/ 275 sks cmt.  
 Production Casing: 4 1/2" 11.6# @ 7284' w/ 275 sks cmt (TOC 6235'). Otis port collar at 2994'.

Existing CIBP: at 6825' with 2 sxs cement.  
 Procedure:  
 1. MIRU pulling unit. Pull 2 7/8" tubing.  
 2. TIH Pump 50 sxs of cement from 6805'-6150'  
 4. TIH with tubing to 6805'. RU cementers. Mix and pump 50 sxs of 15.8#/gal CI G cement  
 5. TIH w/ CIBP set at 4320' top w/ 2sx of cement  
 6. TIH w/ wireline shoot holes at 500'. Mix and pump 290 sxs of 15.8#/gal CI G cement.  
 6. 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: 1/28/2016 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: JENKINS, STEVE Date: 4/7/2017

**CONDITIONS OF APPROVAL, IF ANY:**

**COA Type**

**Description**

|  |  |
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**Attachment Check List**

**Att Doc Num**

**Name**

|           |                             |
|-----------|-----------------------------|
| 400979389 | FORM 6 SUBSEQUENT SUBMITTED |
| 400979653 | WELLBORE DIAGRAM            |
| 400979654 | CEMENT JOB SUMMARY          |

Total Attach: 3 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

|        |               |            |
|--------|---------------|------------|
| Permit | Form 7 is OK. | 11/07/2016 |
|--------|---------------|------------|

Total: 1 comment(s)