

Document Number:  
400739709

Date Received:  
11/24/2014

**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: Gomez, Jason Tel: (970) 573-1277

**COGCC contact:** Email: jason.gomez@state.co.us

API Number 05-123-13724-00

Well Name: LEWIS KLEIN Well Number: 19-2

Location: QtrQtr: SWNE Section: 19 Township: 5N Range: 64W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 69037

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: 40.386247 Longitude: -104.590444

GPS Data:  
Date of Measurement: 04/22/2010 PDOP Reading: 1.8 GPS Instrument Operator's Name: Chuck Kraft

Reason for Abandonment:  Dry     Production for Sub-economic     Mechanical Problems  
 Other \_\_\_\_\_

Casing to be pulled:  Yes     No    Estimated Depth: 5866

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    | 6880      | 6895      |                |                     |            |
| NIOBRARA  | 6643      | 6676      |                |                     |            |

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              | 322           | 220          | 322        | 0          | CALC   |
| 1ST         | 7            | 3+1/2          | 10.3            | 7,066         | 250          | 7,066      | 5,916      | CBL    |

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6600 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 5950 ft. to 5800 ft. Plug Type: STUB PLUG Plug Tagged:   
 Set 200 sks cmt from 3500 ft. to 4500 ft. Plug Type: OPEN HOLE 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 250 sacks half in. half out surface casing from 540 ft. to 0 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: \_\_\_\_\_  
 \*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_  
 Type of Cement and Additives Used: \_\_\_\_\_  
 Flowline/Pipeline has been abandoned per Rule 1103  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

Plugging Procedure  
 Codell  
 Niobrara  
 Existing Perforations:  
 Niobrara: 6643-6776'  
 Codell: 6880-6895'  
 PBTD: 6973'  
 8 5/8" 24# @ 322' w/ 220 sks cmt.  
 3.5" 10.3# @ 7066' w/ 250 sks cmt (TOC 5916')  
 Procedure:  
 1. MIRU wireline  
 2. RIH, set CIBP @ 6600'  
 3. RIH w/dump bailer and dump 2 sx cement on top of CIBP @ 6600'  
 4. RIH w/casing cutter, cut & pull casing @ ~5866'  
 5. TIH set 50 sack plug @ casing stub (5950-5800')  
 6. TOH to set 200 sack plug @ Parkman/Sussex (3500-4500)  
 7. TOH and set 250 sack cement plug half in half out of surface casing from 540' to surface  
 8. Cut casing 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: Regulatory Tech Date: 11/24/2014 Email: Jenifer.Hakkarinen@pdce.com

Based on the information provided, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved:

Date: 12/11/2014

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 6/10/2015

**COA Type**

**Description**

|  |  |
|--|--|
|  | Note changes to plugging procedure:<br>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.<br>2) For 4500' plug: pump plug and displace. If plug does not circulated to surface then tag plug – must be 3500' or shallower.<br>3) For 450' plug: pump plug and displace. If plug does not circulated to surface then tag plug – must be 272' or shallower, and provide 10 sx plug at the surface. Leave at least 100' cement in the casing for each plug.<br>4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. |
|--|--|

**Attachment Check List**

**Att Doc Num**

**Name**

|           |                           |
|-----------|---------------------------|
| 1175971   | WELLBORE DIAGRAM-PROPOSED |
| 400739709 | FORM 6 INTENT SUBMITTED   |
| 400739715 | WELLBORE DIAGRAM          |
| 400739716 | WELLBORE DIAGRAM          |

Total Attach: 4 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

|          |   |                          |
|----------|---|--------------------------|
| Engineer | Emailed operator for corrected proposed plugging WBD.<br>Received proposed WBD, 12/11/14. | 12/10/2014<br>8:25:14 AM |
| Permit   | Well Completion Report dated 3/07/1988.   | 12/9/2014<br>3:47:07 PM  |

Total: 2 comment(s)