

**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.

Document Number:  
400512814

Date Received:  
11/14/2013

OGCC Operator Number: 69175 Contact Name: Jenifer Hakkarinen

Name of Operator: PDC ENERGY INC Phone: (303) 8605800

Address: 1775 SHERMAN STREET - STE 3000 Fax: (303) 8605838

City: DENVER State: CO Zip: 80203 Email: Jenifer.Hakkarinen@pdce.com

**For "Intent" 24 hour notice required,** Name: PRECUP, JIM Tel: (303) 726-3822

**COGCC contact:** Email: james.precup@state.co.us

API Number 05-123-13683-00

Well Name: ANKENNEY Well Number: 28-1

Location: QtrQtr: SENE Section: 28 Township: 6N Range: 64W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 69018

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: 40.458611 Longitude: -104.548056

GPS Data:  
Date of Measurement: 02/05/2010 PDOP Reading: 2.6 GPS Instrument Operator's Name: Robert Girillego

Reason for Abandonment:  Dry  Production for Sub-economic  Mechanical Problems

Other \_\_\_\_\_

Casing to be pulled:  Yes  No Estimated Depth: 5895

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	6894	6910			
NIOBRARA	6600	6818			

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	308	220	308	0	
1ST	7+7/8	3+1/2	10.3	7,085	250	7,085	0	

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6535 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 5985 ft. to 5935 ft. Plug Type: STUB PLUG Plug Tagged:   
 Set 200 sks cmt from 3900 ft. to 4700 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 100 sacks half in. half out surface casing from 258 ft. to 358 ft. Plug Tagged:   
 Set 10 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  
 Niobrara  
 Codell  
 Existing Perforations:  
 Niobrara "A": 6600'-6818'  
 Codell: 6894'-6910'  
 PBTD: 6987"  
 8 5/8" 24# @ 308' w/ 220 sks cmt.  
 3.5" 10.3# @ 7085' w/ 250 sks cmt  
 Procedure:  
 1. MIRU wireline  
 2. RIH w/dump bailer and dump 2 sx cement on top of CIBP @ 6535'  
 3. RIH w/casing cutter, cut & pull casing @ ~5985'  
 4. TIH set 50 sack plug @ casing stub (5985')  
 5. TIH to tag stub plug  
 6. TOH to set 200 sack plug @ Parkman/Sussex (~3900'--4700')  
 7. TOH and set 100 sack cement plug half in half out of surface casing from 258'-358'  
 8. Set 10 sx @ top of surface  
 9. 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: 11/14/2013 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, MIKE

COGCC Approved:

Date: 11/19/2013

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 5/18/2014

**COA Type**

**Description**

	1) Provide 24 hour notice of MIRU to Jim Precup at 303 726-3822 or e-mail at james.precup@state.co.us. 2) For 5985' plug: pump plug and displace, if good circulation is maintained throughout, no tag is required. Leave at least 100' of cement in the wellbore for each plug. 3) For 358' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 258' or shallower 4) Properly abandon flowlines as per Rule 1103.
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**Attachment Check List**

**Att Doc Num**

**Name**

400512814	FORM 6 INTENT SUBMITTED
400512822	WELLBORE DIAGRAM
400512824	WELLBORE DIAGRAM

Total Attach: 3 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

Permit	Old style comp. rept.#195378 sub. 2/88 meets form 5 requirements.	11/15/2013 7:48:58 AM
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Total: 1 comment(s)