

FORM  
6Rev  
12/05

## State 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:

401289598

Date Received:

05/23/2017

## 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: Pesicka, Conor

Tel: (970) 415-0789

**COGCC contact:**

Email: conor.pesicka@state.co.us

API Number 05-123-20373-00

Well Name: NATIONAL HOG FARM

Well Number: 41-21

Location: QtrQtr: NENE Section: 21 Township: 5N Range: 63W 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: 40.390360

Longitude: -104.433110

GPS Data:

Date of Measurement: 09/26/2007

PDOP Reading: 1.8

GPS Instrument Operator's Name: Holly L. Tracy

Reason for Abandonment:

☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes☐ No

Estimated Depth: 604

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	6609	6617			
J SAND	7064	7078	01/07/2003	BRIDGE PLUG	6765

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	404	285	404	0	VISU
1ST	7+7/8	4+1/2	10.5	7,445	300	7,445	6,006	CBL
S.C. 1.1				7,445	270	6,006	3,394	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6559 with 2 sacks cmt on top. CIBP #2: Depth 6238 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 2 sks cmt from 6738 ft. to 6764 ft. Plug Type: CASING Plug Tagged: ☐  
Set 200 sks cmt from 654 ft. to 0 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: ☐

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. \_\_\_\_\_ inch casing Plugging Date: \_\_\_\_\_  
of \_\_\_\_\_

\*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:

National Hog Farm 41-21 (05-123-20373)/Plugging Procedure (Intent)  
Producing Formation (Perforations): Codell: 6609'-6617' J Sand: 7064'-7078'  
TD: 7454' PBTD: 7402'  
Surface Casing: 8 5/8" 24# @ 404' w/ 285 sxs  
Production Casing: 4 1/2" 10.5# @ 7445' w/ 570 sxs cmt (TOC @ 3392' CBL). Existing CIBP @ 6765' w/ no cement top (1/7/2003).

Tubing: 2 3/8" tubing set @ 6563' (7/28/2015)

Proposed Procedure:

1. RU Wireline. Remove 2 stage plunger set at 3958' (10/3/2016)
2. MIRU pulling unit. Pull 2 3/8" tubing.
3. RU wireline company.
4. TIH with tubing to 6764'. Top existing CIBP with 2 sxs 15.8#/gal CI G cement.
5. TIH with CIBP. Set BP at 6559'. Top with 2 sxs 15.8#/gal CI G cement.
6. TIH with CIBP. Set BP at 6238'. Top with 2 sxs 15.8#/gal CI G cement.
7. TIH with casing cutter. Cut 4 1/2" casing at 604'. Pull cut casing.
8. TIH with tubing to 654'. RU cementing company. Mix and pump 200 sxs 15.8#/gal CI G cement down tubing. Cement should 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: JEnifer Hakkarinen  
Title: Reg Tech Date: 5/23/2017 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 by \_\_\_\_\_  
JENNIFER, STEVE

COGCC Approved:

Date: 6/1/2017

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 11/30/2017

**COA Type**

**Description**

	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) For the 654' plug: pump plug and displace. If surface casing plug is not circulated to surface then tag plug – must be at 235' or shallower and provide 10 sx plug at the surface. Leave at least 100' of cement in the casing for each plug. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 4) Prior to starting plugging operations a Bradenhead test shall be performed. If the beginning pressure is greater than 25 psi, or if pressure remains at the conclusion of the test, or if any liquids were present contact COGCC Engineering for sampling requirements. The Form 17 shall be submitted within 10 days of the test.
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**Attachment Check List**

**Att Doc Num**

**Name**

401289598	FORM 6 INTENT SUBMITTED
401290086	WELLBORE DIAGRAM
401290088	WELLBORE DIAGRAM

Total Attach: 3 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

Public Room	Document verification complete 05/23/17	05/23/2017
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Total: 1 comment(s)