

FORM  
6Rev  
12/05State 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:

401492702

Date Received:

12/20/2017

## 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: Peterson, Tom

Tel: (303) 815-9641

COGCC contact:

Email: tom.peterson@state.co.us

API Number 05-069-06336-00

Well Name: RYAN

Well Number: 23-25U

Location: QtrQtr: NESW Section: 25 Township: 5N Range: 68W Meridian: 6

County: LARIMER

Federal, Indian or State Lease Number:

Field Name: JOHNSON'S CORNER

Field Number: 42570

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

## Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.368610

Longitude: -104.956940

GPS Data:

Date of Measurement: 10/31/2007

PDOP Reading: 5.3

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: 675

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	7070	7078			
J SAND	7531	7545			
NIOBRARA	6754	6843			

Total: 3 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	456	320	456	0	VISU
1ST	7+7/8	4+1/2	10.5	7,655	235	7,655	6,226	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7481 with 2 sacks cmt on top. CIBP #2: Depth 6704 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 345 sks cmt from 725 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: ☐  
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:

Ryan 23-25U (05-069-06336)/Plugging Procedure (Intent)  
Producing Formation (Perforations): Niobrara: 6754'-6843' Codell: 7070'-7078' J-Sand: 7531'-7545'  
TD: 7705' PBD: 7633'  
Surface Casing: 8 5/8" 24# @ 456' w/ 320 sxs  
Production Casing: 4 1/2" 10.5# @ 7655' w/ 235 sxs cmt (TOC @ 6226' - CBL).

Tubing: 2 3/8" tubing set @ 7516' (1/30/2017).

Proposed Procedure:

1. Run gyro survey.
  2. MIRU pulling unit. Pull 2 3/8" tubing.
  3. RU wireline company.
  4. TIH with CIBP. Set BP at 7481'. Top with 2 sxs 15.8#/gal CI G cement.
  5. TIH with CIBP. Set BP at 6704'. Top with 2 sxs 15.8#/gal CI G cement.
  6. TIH with casing cutter. Cut 4 1/2" casing at 675'. Pull cut casing.
  7. TIH with tubing to 725'. RU cementing company. Mix and pump 345 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
  8. Cut surface casing 6' below ground level and weld on cap.
- If there is bradenhead pressure:
1. Run gyro survey.
  2. MIRU pulling unit. Pull 2 3/8" tubing.
  3. RU wireline company.
  4. TIH with CIBP. Set BP at 7481'. Top with 2 sxs 15.8#/gal CI G cement.
  5. TIH with CIBP. Set BP at 6704'. Top with 2 sxs 15.8#/gal CI G cement.
  6. TIH with casing cutter. Cut 4 1/2" casing at 1500'. Pull cut casing.
  7. TIH with tubing to 1550'. RU cementing company. Mix and pump 75 sxs 15.8#/gal CI G cement down tubing. Wait 8 hours or overnight. Check to see if there is any bradenhead pressure or fluid flow after stub plug is set. If there is, contact COGCC for further guidance. If there is not, move on to step 8.
  8. TIH with tubing to 675'. RU cementing company. Mix and pump 475 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: 12/20/2017 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.

COGCC Approved: BURN, DIANA Date: 1/21/2018

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 7/20/2018

COA Type	Description
	<p>Prior to starting plugging operations a bradenhead test shall be performed. If there is a need for sampling - contact COGCC engineering for verification of plugging procedures (Pressure greater than 25# or any liquids flowed to surface).</p> <p>1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions, Appendix A: Liquid and Gas Sampling.</p> <p>The Form 17 shall be submitted within 10 days of the test.</p>
	<p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) For 725' plug: pump plug and displace. If surface casing shoe plug (725') not circulated to surface then tag plug – must be 250' or shallower and provide 10 sx plug at the surface.</p> <p>3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</p>

## **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
401492702	FORM 6 INTENT SUBMITTED
401492709	WELLBORE DIAGRAM
401492710	WELLBORE DIAGRAM

Total Attach: 3 Files

## **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Public Room	Document verification complete 01/16/18	01/16/2018
Permit	Missing Jsand on zones tab. Added. Pass.	01/02/2018

Total: 2 comment(s)