

FORM  
6Rev  
05/18State 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:

402136909

Date Received:

08/07/2019

## 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: Valerie Danson

Name of Operator: PDC ENERGY INC

Phone: (970) 506-9272

Address: 1775 SHERMAN STREET - STE 3000

Fax:

City: DENVER State: CO Zip: 80203

Email: valerie.danson@pdce.com

For "Intent" 24 hour notice required,

Name: Silver, Randy

Tel: (720) 827-6688

COGCC contact:

Email: randy.silver@state.co.us

API Number 05-123-23794-00

Well Name: JACOBUCCI

Well Number: 43-32

Location: QtrQtr: NWSE Section: 32 Township: 1N Range: 67W 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: 40.005788

Longitude: -104.911869

GPS Data:

Date of Measurement: 08/23/2006

PDOP Reading: 2.0

GPS Instrument Operator's Name: FRANK

Reason for Abandonment:

☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ Other

Casing to be pulled:

☒ Yes☐ No

Estimated Depth: 1640

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
J SAND	8469	8489			

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	1,081	785	1,081	0	VISU
1ST	7+7/8	4+1/2	11.6	8,621	300	8,621	6,820	CBL
			Stage Tool	5,324	266	5,324	4,140	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8419 with 2 sacks cmt on top. CIPB #2: Depth 7840 with 2 sacks cmt on top.  
 CIBP #3: Depth 7534 with 2 sacks cmt on top. CIPB #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 <u>52</u> sks cmt from <u>5425</u> ft. to <u>4740</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>501</u> sks cmt from <u>1690</u> ft. to <u>0</u> ft.	Plug Type: <u>STUB PLUG</u>	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

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 1105 ☐ Yes ☐ No \*ATTACH JOB SUMMARY

#### Technical Detail/Comments:

Jacobucci 43-32 (05-123-23794) Plugging Procedure (Intent)  
 Producing Formation: J-Sand: 8469'-8489'

Upper Pierre Aquifer: 560'-1540'  
 TD: 8640' PBD: 8543' (6/21/2017)  
 Surface Casing: 8 5/8" 24# @ 1081' w/ 785 sxs  
 Production Casing: 4 1/2" 11.6# @ 8621' w/ 300 sxs cmt (TOC @ 6820' - CBL)  
 DV Tool @ 5324' w/ 266 sxs cmt (5324'-4140' - CBL)

Tubing: 2 3/8" tubing set @ 8453' (6/21/2017)

#### Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 8419'. Top with 2 sxs 15.8#/gal CI G cement. (Top of J-Sand perms @ 8469')
4. TIH with CIBP. Set BP at 7840'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Codell @ 7890')
5. TIH with CIBP. Set BP at 7534'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 7584')
6. TIH with tubing to 5425'. RU cementing company. Mix and pump 52 sxs 15.8#/gal CI G cement down tubing (DV Tool & Sussex coverage from 5425'-4740', Top of Sussex @ 4840'). TOOH with tubing.
7. TIH with casing cutter. Cut 4 1/2" casing at 1640'. Pull cut casing.
8. TIH with tubing to 1690'. RU cementing company. Mix and pump 501 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface (Pierre coverage from 1640'-surface). TOOH with tubing.
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: Valerie Danson

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: 9/10/2019

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 3/9/2020

### COA Type

### Description

	<p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) Prior to placing the 1690' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders.</p> <p>3) After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 1031' or shallower and provide 10 sx plug at the surface.</p> <p>4) Leave at least 100' of cement in the wellbore for each plug.</p> <p>5) Properly abandon flowlines per Rule 1105. File electronic Form 42 once abandonment of on-location flowlines is complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line the operator must submit a Flowline Report, Form 44.</p> <p>6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</p> <p>7) After placing the shallowest hydrocarbon isolating plug (5425'), operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations.</p>
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	<p>Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations.</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>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.</p>

## Attachment Check List

**Att Doc Num****Name**

402136909	FORM 6 INTENT SUBMITTED
402137067	WELLBORE DIAGRAM
402137068	WELLBORE DIAGRAM

Total Attach: 3 Files

## General Comments

**User Group****Comment****Comment Date**

Engineer	1) Deepest Water Well within 1 mile = 885'. 2) Fox Hills Bottom- 867', per SB5.	09/10/2019
Permit	Ready to pass form. Confirmed as drilled lat/long is accurate. Final Form 5/Drilling Completion Report on file as doc# 1516722. J Sand formation completion confirmed via Form 5A/Completed Interval Report(s): doc# 1516723. Confirmed Form 7 production reporting is accurate.	08/13/2019

Total: 2 comment(s)