

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:

401380879

Date Received:

08/18/2017

## 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: Tel:

COGCC contact:

Email:

API Number 05-123-24385-00

Well Name: CORNISH

Well Number: 11-10

Location: QtrQtr: NWNW Section: 10 Township: 6N 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: 40.506810

Longitude: -104.429250

GPS Data:

Date of Measurement: 01/27/2007

PDOP Reading: 2.4

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:Fish in Hole: ☐ Yes ☐ No If yes, explain details belowWellbore 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	6751	6759	07/18/2017	B PLUG CEMENT TOP	6701

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	487	340	487	0	VISU
1ST	7+7/8	4+1/2	10.5	6,925	690	6,925	0	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6701 with 2 sacks cmt on top. CIBP #2: Depth 6414 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 50 sks cmt from 600 ft. to 0 ft. Plug Type: CASING 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: 07/18/2017  
of \_\_\_\_\_

\*Wireline Contractor: Cased Hole solutions

\*Cementing Contractor: O-tex

Type of Cement and Additives Used: 15.8 PPG CL G NEAT

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

\*ATTACH JOB SUMMARY

#### Technical Detail/Comments:

Cornish 11-10 (05-123-24385)/Plugging Procedure  
Producing Formation (Perforations): Codell: 6751'-6759'

TD: 6938' PBDT: 6893'

Surface Casing: 8 5/8" 24# @ 487' w/ 340 sxs

Production Casing: 4 1/2" 10.5# @ 6925' w/ 690 sxs cmt (TOC @ Surface - CBL). Lite lead cement used therefore CBL not able to show full coverage from 0'-1366'.

Tubing: 2 3/8" tubing set @ 6739' (4/16/2015)

#### Procedure:

1. RU Wireline. Remove 2 stage plunger set at 4041' (4/17/2017).
2. MIRU pulling unit. Pull 2 3/8" tubing.
3. RU wireline company.
4. TIH with CIBP. Set BP at 6701'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with CIBP. Set BP at 6414'. Top with 2 sxs 15.8#/gal CI G cement.
6. TIH with tubing to 600'. RU cementing company. Mix and pump 50 sxs 15.8#/gal CI G cement down tubing. Cement circulate to surface.
7. 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: 8/18/2017

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:

Date: 5/21/2018

**CONDITIONS OF APPROVAL, IF ANY:**

**COA Type**

**Description**

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**Attachment Check List**

**Att Doc Num**

**Name**

401380879	FORM 6 SUBSEQUENT SUBMITTED
401380881	WELLBORE DIAGRAM
401380910	WIRELINE JOB SUMMARY
401380913	CEMENT JOB SUMMARY

Total Attach: 4 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

Engineer	Requested gyro survey from operator.	05/21/2018
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Total: 1 comment(s)