

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



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Date Received:

01/13/2016

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: Kelsi Welch

Name of Operator: PDC ENERGY INC

Phone: (303) 831-3974

Address: 1775 SHERMAN STREET - STE 3000

Fax:

City: DENVER State: CO Zip: 80203

Email: kelsi.welch@pdce.com

For "Intent" 24 hour notice required,

Name: Tel:

COGCC contact:

Email:

API Number 05-123-11963-00

Well Name: BROWN

Well Number: 20-1

Location: QtrQtr: NWNW Section: 20 Township: 4N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 65447

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: 40.304310

Longitude: -104.920690

GPS Data:

Date of Measurement: 10/26/2007

PDOP Reading: 2.8

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:

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 | 7252 | 7262 | 07/22/2015 | B PLUG CEMENT TOP | 6900 |
| NIOBRARA | 6945 | 7038 | 07/22/2015 | BRIDGE PLUG | 6900 |

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 | 321 | 260 | 321 | 0 | VISU |
| 1ST | 6+3/4 | 2+7/8 | 6.7 | 7,344 | 1,260 | 7,344 | 250 | CBL |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ 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 10 sks cmt from 6615 ft. to 6260 ft. Plug Type: CASING Plug Tagged: ☐
Set 60 sks cmt from 523 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: ☐

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. of _____ inch casing

Plugging Date: 11/05/2015

*Wireline Contractor: STS

*Cementing Contractor: Sanjel

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1103 ☐ Yes ☐ No

*ATTACH JOB SUMMARY

Technical Detail/Comments:

Brown 20-1 (05-123-11963)/Plugging Procedure
Producing Formation: Niobrara - Codell
Existing Perforations: Niobrara: 6945'-7038' Codell: 7252'-7262'
TD: 7350' PBTD: 7300'
Surface Casing: 8" 24# @ 321' w/ unknown sks cmt.
Production Casing: 2" 6.7# @ 7344' w/ 1260 sks cmt (TOC 6260' and 250').

Existing CIBP: at 6900' with 2 sxs cement.

Proposed Procedure:

1. MIRU pulling unit.
2. TIH with tubing to 6615'. RU cementers. Mix and pump 10 sxs of 15.8#/gal CI G cement in 2" casing to 6260'.
3. TIH with perf gun shoot squeeze holes @ 100'
4. TIH with 1 1/4' workstring to 523'. Mix and pump 60 sxs of 15.8#/gal CI G cement in 2" casing. Cement to surface.
6. 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: Kelsi Welch

Title: Regulatory Analyst

Date: 1/13/2016

Email: kelsi.welch@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: JENKINS, STEVE

Date: 4/7/2017

CONDITIONS OF APPROVAL, IF ANY:**COA Type****Description**

| | |
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| | |
|--|--|

Attachment Check List**Att Doc Num****Name**

| | |
|-----------|-----------------------------|
| 400969672 | FORM 6 SUBSEQUENT SUBMITTED |
| 400969923 | WELLBORE DIAGRAM |
| 400969924 | CEMENT JOB SUMMARY |

Total Attach: 3 Files

General Comments**User Group****Comment****Comment Date**

| | | |
|--------|---------------|------------|
| Permit | Form 7 is OK. | 11/01/2016 |
|--------|---------------|------------|

Total: 1 comment(s)