

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:

400948223

Date Received:

12/04/2015

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: Rickard, Jeff

Tel: (720) 305-8280

COGCC contact:

Email: jeffrey.rickard@state.co.us

API Number 05-123-13304-00

Well Name: BERNHARDT

Well Number: 7-1

Location: QtrQtr: SWNW Section: 7 Township: 4N Range: 66W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 68407

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: 40.328420

Longitude: -104.827690

GPS Data:

Date of Measurement: 09/25/2010

PDOP Reading: 2.2

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	7207	7270			
NIOBRARA	6892	7183			

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	310	200	310	0	VISU
1ST	7+7/8	2+7/8	6.5	7,310	500	7,310	5,502	CBL
S.C. 1.1				1,500	450	1,500	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6840 with 2 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 _____ 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: ☐
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 17 sacks half in. half out surface casing from 500 ft. to 0 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: _____

*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:

Bernhardt #7-1 (05-123-13304)/Plugging Procedure (Intent)

Producing formation: Niobrara/Codell

Existing Perforations: Niobrara/Codell - 6,892'-7,270'

TD: 7,310' PBD: 7,295'

Surface Casing: 8 5/8" 24# @ 310' w/ 200 sks cmt.

Production Casing: 2 7/8" 6.5# @ 7310' w/ 500 sks cmt & annular fill w/ 450 sks cmt (TOC at surface).

Proposed Procedure:

1. MIRU pulling unit.

2. Confirm well is dead. Kill well if necessary.

3. TIH with 1.9" or appropriate workstring. Expect to encounter sand on top of plug at 6,770'.

4. Circulate sand off plug. Retrieve RBP. TOOH with workstring and LD RBP.

5. RU wireline. RIH with Gyro and acquire from 7,250' to surface.

6. Rig up wireline. RIH with CIBP. Set CIBP at 6,840'. Load dump bailer with 2sx of 15.8#/gal CL G cement. TIH with dump bailer and spot on top of CIBP.

7. RD WL.

8. TIH with workstring to 500'. Circulate and condition well in preparation to pump cement plug.

9. RU cementers. Mix and pump 500' of cement with 17 sks of 15.8#/gal CL G cement. Cement should circulate to surface.

10. POOH tbg.

11. 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: Regulatory TEch

Date: 12/4/2015

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 _____, STEVE

COGCC Approved:

Date: 1/4/2016

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 7/3/2016

COA Type

Description

	Note changes to plugging procedure: 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) For 500' plug: pump plug and displace. If surface casing plug is not circulated to surface then tag plug – must be 210' 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.
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Attachment Check List

Att Doc Num

Name

400948223	FORM 6 INTENT SUBMITTED
400948238	WELLBORE DIAGRAM
400948241	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

Permit	Per operator separated Niobrara formation and added perms of 6892-7183 and added Codell formation perms of 7207-7270. Permitting Review Complete.	12/30/2015 3:49:53 PM
Permit	ON HOLD: requesting separate tob and bottom perms for the Niobrara and the Codell formations.	12/28/2015 2:01:55 PM
Permit	Well Completion Report dated 5/14/1987	12/28/2015 2:01:52 PM
Public Room	Document verification complete 12/7/15	12/7/2015 3:03:56 PM

Total: 4 comment(s)