

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



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Document Number:

401839091

Date Received:

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: Evins, Bret

Tel: (970) 420-6699

COGCC contact:

Email: bret.evins@state.co.us

API Number 05-123-24019-00

Well Name: CBO

Well Number: 21-32

Location: QtrQtr: NENW Section: 32 Township: 7N 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: 40.535170

Longitude: -104.463830

GPS Data:

Date of Measurement: 09/29/2006

PDOP Reading: 2.2

GPS Instrument Operator's Name: H.L. TRACY

Reason for Abandonment:

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

Casing 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	6882	6890			

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	693	480	693	0	VISU
1ST	7+7/8	4+1/2	10.5	7,072	775	7,072	796	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6832 with 2 sacks cmt on top. CIBP #2: Depth 6525 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 <u>40</u> sks cmt from <u>1900</u> ft. to <u>1400</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>70</u> sks cmt from <u>900</u> ft. to <u>0</u> ft.	Plug Type: <u>CASING</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 770 ft. with 276 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:

CBO 21-32 (05-123-24019)/Plugging Procedure (Intent)

Producing Formation: Codell: 6882'-6890'

Upper Pierre Aquifer: 530'-1610'

TD: 7094' PBTD: 7039'

Surface Casing: 8 5/8" 24# @693' w/ 480 sxs cmt

Production Casing: 4 1/2" 10.5# @ 7072' w/ 775 sxs cmt (TOC @ 796' - CBL).

Tubing: 2 3/8" tubing set @ 6870' (9/22/2006).

Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6832'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set BP at 6525'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with tubing to 1900'. RU cementing company. Mix and pump 40 sxs 15.8#/gal CI G cement down tubing. (Pierre coverage from 1900'-1400'). TOOH with tubing.
6. TIH with perforation gun. Shoot 2 holes for annular squeeze at 770' @ 1 SPF or preferred.
7. TIH with tubing to 900'. RU cementing company. Mix and pump 70 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface. TOOH with tubing.
8. Close off casing returns. Hook up cement line to cement flange and pump 276 sxs 15.8#/gal CI G cement downhole and squeeze through perforations at 770' into annular space. 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: 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:

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date:

COA Type **Description**

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Attachment Check List

Att Doc Num **Name**

401839133	WELLBORE DIAGRAM
401839135	WELLBORE DIAGRAM
401839136	GYRO SURVEY

Total Attach: 3 Files

General Comments

User Group **Comment**

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)