

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:

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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:

Tel:

COGCC contact:

Email:

API Number 05-123-22990-00

Well Name: RICHTER

Well Number: 23-27

Location: QtrQtr: NESW Section: 27 Township: 7N Range: 64W 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: 40.542420

Longitude: -104.539110

GPS Data:

Date of Measurement: 07/27/2006

PDOP Reading: 1.9

GPS Instrument Operator's Name: H.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	7114	7124	08/16/2018	B PLUG CEMENT TOP	7064

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	589	325	589	0	VISU
1ST	7+7/8	4+1/2	10.5	7,274	145	7,274	6,227	CBL
S.C. 1.1				6,227	305	6,227	2,993	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7064 with 2 sacks cmt on top. CIBP #2: Depth 6787 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 93 sks cmt from 846 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 1900 ft. with 130 sacks. Leave at least 100 ft. in casing 1630 CICR Depth
 Perforate and squeeze at 800 ft. with 172 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: 08/16/2018
 of _____

*Wireline Contractor: Ranger *Cementing Contractor: C&J

Type of Cement and Additives Used: 14.8 type III

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Richter 23-27 (05-123-22990)/Plugging Procedure

Producing Formation: Codell: 7114'-7124'

Upper Pierre Aquifer: 720'-1752'

TD: 7320' PBTD: 7225'

Surface Casing: 8 5/8" 24# @ 589' w/ 325 sxs

Production Casing: 4 1/2" 10.5# @ 7274' w/ 450 sxs cmt (TOC @ 2993' - CBL).

Tubing: 2 3/8" tubing set @ 7072' (9/1/2005).

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7064'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set BP at 6787'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with casing cutter. Cut 4 1/2" casing at 1900'. Unable to Pull cut casing.
6. TIH with perf gun, shoot squeeze holes at 1600'. Set CICR at 1630'
7. Sting into retainer and pump 130 sxs of 14.8 ppg type III cement. top with 2 sxs of cement
8. TIH with casing cutter. Cut 4 1/2" casing at 800'. Unable to Pull cut casing
9. TIH with perf gun, shoot squeeze holes at 650'
10. Pick up tubing to 846'. Mix and pump 93 sxs 14.8#/gal cement down tubing. Cement circulate to surface. Mix and pump 172 sxs inside 4 1/2 casing through squeeze holes to surface.
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 hakarinen

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:

COA Type	Description

Attachment Check List

Att Doc Num	Name
401765642	CEMENT JOB SUMMARY
401765648	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)