

FORM
6Rev
02/20

State 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:

402377137

Date Received:

04/21/2020

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: Valerie Danson

Name of Operator: PDC ENERGY INC

Phone: (970) 506-9272

Address: 1775 SHERMAN STREET - STE 3000

Fax:

City: DENVER State: CO Zip: 80203

Email: valerie.danson@pdce.com

For "Intent" 24 hour notice required,

Name:

Tel:

COGCC contact:

Email:

Type of Well Abandonment Report:



Notice of Intent to Abandon



Subsequent Report of Abandonment

API Number 05-123-27371-00

Well Name: ROTHARMEL

Well Number: 12-32

Location: QtrQtr: SWNW Section: 32 Township: 7N Range: 66W Meridian: 6

County: WELD

Federal, Indian or State Lease Number:

Field Name: EATON

Field Number: 19350

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.532250 Longitude: -104.810420

GPS Data: GPS Quality Value: 1.8 Type of GPS Quality Value: Date of Measurement: 12/13/2006

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	7339	7349	03/19/2020	B PLUG CEMENT TOP	7289

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	918	650	918	0	VISU
1ST	7+7/8	4+1/2	10.5	7,534	605	7,534	1,350	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7289 with 2 sacks cmt on top. CIBP #2: Depth 6960 with 2 sacks cmt on top.
CIBP #3: Depth 2500 with 2 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 153 sks cmt from 1530 ft. to 818 ft. Plug Type: STUB PLUG 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 157 sacks half in. half out surface casing from 520 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: 1018 ft. of 4+1/2 inch casing Cut and Cap Date: 03/23/2020

*Wireline Contractor: SureFire Wireline Services

*Cementing Contractor: NexTier

Type of Cement and Additives Used: Type III 14.8 PPG Portland Cement

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

Technical Detail/Comments:

Rotharmel 12-32 (05-123-27371)/Plugging Procedure
Producing Formation: Codell: 7339'-7349'
Upper Pierre Aquifer: 400'-918'
TD: 7542' PBD: 7506' (11/28/2006)
Surface Casing: 8 5/8" 24# @ 918' w/ 650 sxs
Production Casing: 4 1/2" 10.5# @ 7534' w/ 605 sx cmt (TOC @ 1350' - CBL)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7289'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Codell perms @ 7339')
4. TIH with CIBP. Set BP at 6960'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 7010')
5. TIH with CIBP. Set BP at 2500'. Top with 2 sxs 15.8#/gal CI G cement.
6. Run a Strip Log from 1100' to Surface for casing cut verification (log not kept).
7. TIH with casing cutter. Cut 4 1/2" casing @ 1018'. Pull cut casing.
8. TIH with tubing to 1530'. RU cementing company. Mix and pump 153 sxs 14.8#/gal Type III cement down tubing. TOC at 818'.
9. Pick up tubing to 520'. Mix and pump 157 sxs 14.8#/gal Type III cement down tubing. (Pierre coverage from 500'-surface) Cement circulate to surface.
10. 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: Valerie Danson

Title: Reg Tech

Date: 4/21/2020

Email: valerie.danson@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: 3/10/2021

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

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Attachment List

Att Doc Num

Name

402377137	FORM 6 SUBSEQUENT SUBMITTED
402377139	CEMENT JOB SUMMARY
402377140	OPERATIONS SUMMARY
402377141	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

Engineer	GPS location appears accurate on satellite imagery. Ops notice given. Pre-PA BH test filed. Form 7 reporting PA status. Flowline registered. Zones and casing history are consistent with approved intent. Procedure, WBD and tickets are consistent.	03/10/2021
Engineer	Enforcement Review: Operator did not tag plug placed from 1530' - 818' as required by 6N COA.	03/10/2021

Total: 2 comment(s)