

FORM
6Rev
05/18

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:

401920036

Date Received:

01/28/2019

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:

API Number 05-123-14710-00

Well Name: MCINTOSH

Well Number: 33-23

Location: QtrQtr: NWSE Section: 23 Township: 6N Range: 64W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 67803

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: 40.469470

Longitude: -104.514860

GPS Data:

Date of Measurement: 06/27/2010

PDOP Reading: 2.7

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	6868	6882	02/23/2018	B PLUG CEMENT TOP	6794
FORT HAYS	6845	6865	02/23/2018	B PLUG CEMENT TOP	6794

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	305	175	305	0	VISU
1ST	7+7/8	4+1/2	11.6	7,019	220	7,019	6,048	CBL
S.C. 1.1				4,258	180	4,258	2,986	CBL
S.C. 1.2				640	295	640	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6794 with 2 sacks cmt on top. CIBP #2: Depth 6495 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 10 sks cmt from 1315 ft. to 1183 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 1600 ft. with 135 sacks. Leave at least 100 ft. in casing 1315 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 55 sacks half in. half out surface casing from 631 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. _____ inch casing Plugging Date: 01/02/2019
of _____

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

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

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

Technical Detail/Comments:

McIntosh 33-23 (05-123-14710)/Plugging Procedure
Producing Formation: Codell: 6868'-6882' Ft Hayes: 6845'-6865'
Upper Pierre Aquifer: 400'-1460'
TD: 7019' PBD: 6946'
Surface Casing: 8 5/8" 24# @305' w/ 175 sxs cmt
Production Casing: 4 1/2" 11.6# @ 7019' w/ 220 sxs cmt (TOC @ 6048' - CBL).
Annular Fill Cement @ 4258' w/ 180 sxs cmt (TOC @ 2986' - CBL).
Annular Fill Cement @ 623' w/ 295 sxs cmt (TOC @ Surface' - CBL).

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6495'. Top with 2 sxs 15.8#/gal CI G cement.
4. Run CBL 2000' to 1000'.
5. TIH with perforation gun. Shoot lower squeeze holes at 1600' for Pierre Aquifer coverage. Shoot upper squeeze holes at 1300'.
6. Set CICR at 1315'. RU cementing company. Sting in and pump 145 sxs 14.8#/gal Type III cement. Sting out and pump 10 sxs on top of CICR. TOC at 1299'.
7. Pickup tubing to 631'. Mix and pump 55 sxs 14.8#/gal Type III cement down tubing. Cement circulate to surface.
8. 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: 1/28/2019 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 by Shawn, Elliot

COGCC Approved:

Date: 4/24/2019

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

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Attachment Check List

Att Doc Num

Name

2137781	CEMENT BOND LOG
401920036	FORM 6 SUBSEQUENT SUBMITTED
401920045	CEMENT JOB SUMMARY
401920057	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)