

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



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401706461

Date Received:

07/18/2018

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 05-123-25023-00

Well Name: CARMICHAEL

Well Number: 43-26

Location: QtrQtr: NESE Section: 26 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: 40.542390

Longitude: -104.395610

GPS Data:

Date of Measurement: 11/06/2007

PDOP Reading: 2.7

GPS Instrument Operator's Name: HOLLY 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	6772	6778	06/14/2018	B PLUG CEMENT TOP	6455
NIOBRARA	6510	6616	06/14/2018	B PLUG CEMENT TOP	6455

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	543	420	543	0	VISU
1ST	7+7/8	4+1/2	10.5	6,938	650	6,935	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6455 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 30 sks cmt from 1812 ft. to 1416 ft. Plug Type: CASING Plug Tagged: ☐
Set 68 sks cmt from 755 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: ☐

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 _____ 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: 06/14/2018
of _____

*Wireline Contractor: Ranger

*Cementing Contractor: C&J

Type of Cement and Additives Used: 15.8 PPG CL G NEAT

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

*ATTACH JOB SUMMARY

Technical Detail/Comments:

Carmichael 43-26 (05-123-25023)/Plugging Procedure
Producing Formation (Perforations): Niobrara: 6510'-6616' Codell: 6772'-6778'
Pierre Aquifer: 580'-1650'
TD: 6950' PBD: 6876'
Surface Casing: 8 5/8" 24# @ 543' w/ 420 sxs
Production Casing: 4 1/2" 10.5# @ 6938' w/ 650 sxs cmt (TOC @ Surface - CBL).

Tubing: 2 3/8" tubing set @ 6851' (12/9/2015).

Procedure:

1. Unhang rods and unseat pump. If necessary, hot oil tubing. TOOH with hanging rods.
2. MIRU pulling unit. Pull 2 3/8" tubing.
3. RU wireline company.
4. TIH with CIBP. Set BP at 6455'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with tubing to 1812'. RU cementing company. Mix and pump 30 sxs 15.8#/gal CI G cement down tubing to 1416'.
6. Pick up tubing to 755'. Mix and pump 68 sxs 15.8#/gal CI G cement down tubing. Cement circulate to surface.
7. 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: 7/18/2018 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: Jacobson, Eric

Date: 1/14/2019

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

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Attachment Check List

Att Doc Num

Name

2137620	CEMENT BOND LOG
401706461	FORM 6 SUBSEQUENT SUBMITTED
401706468	WELLBORE DIAGRAM
401706469	CEMENT JOB SUMMARY

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)