

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



DE ET OE ES

Document Number:

402298170

Date Received:

01/29/2020

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 05-123-21408-00

Well Name: LINKUS

Well Number: 41-24

Location: QtrQtr: NENE

Section: 24

Township: 1N

Range: 68W

Meridian: 6

County: WELD

Federal, Indian or State Lease Number:

Field Name: WATTENBERG

Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.042489

Longitude: -104.944685

GPS Data: GPS Quality Value: 2.7 Type of GPS Quality Value: PDOP

Date of Measurement: 07/23/2010

GPS Instrument Operator's Name: Shantell Kling

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
J SAND	8260	8284	01/02/2020	B PLUG CEMENT TOP	8210

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	876	780	876	0	VISU
1ST	7+7/8	4+1/2	11.6	8,418	245	8,418	6,990	CBL
			Stage Tool	5,054	125	5,054	4,350	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8210 with _____ sacks cmt on top. CIBP #2: Depth 7760 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 <u>30</u> sks cmt from <u>8210</u> ft. to <u>7815</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>40</u> sks cmt from <u>7760</u> ft. to <u>7243</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>30</u> sks cmt from <u>5065</u> ft. to <u>4735</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>105</u> sks cmt from <u>1970</u> ft. to <u>1673</u> ft.	Plug Type: <u>STUB PLUG</u>	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

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 434 sacks half in. half out surface casing from 1000 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: 1920 ft. 4+1/2 inch casing Cut and Cap Date: 01/07/2020

*Wireline Contractor: SureFire & Ranger Services

*Cementing Contractor: NexTier

Type of Cement and Additives Used: Class G 15.8 PPG Cement & Type III 14.8 PPG Portland Cement

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

Technical Detail/Comments:

Linkus 41-24 (05-123-21408)/Plugging Procedure
Producing Formation: J-Sand: 8260'-8284'
Upper Pierre Aquifer: 200'-2170'
TD: 8418' PBTD: 8388' (1/24/2004)
Surface Casing: 8 5/8" 24# @ 876' w/ 780 sxs
Production Casing: 4 1/2" 11.6# @ 8418' w/ 245 sxs cmt (TOC @ 6990' - CBL)
• DV Tool @ 5015' w/ 125 sxs cmt (5054' - 4350' - CBL)
• Cement Basket @ 8057'

Procedure:

1. MIRU pulling unit. Pull 2 3/8 tubing.
2. RU wireline company.
3. TIH with CIBP. Set CIBP at 8210'.
4. TIH with tubing to 8210'. RU cementing company. Mix and pump 30 sxs 15.8#/gal CI G cement down tubing. TOC at 7815'.
5. TIH with CIBP. Set CIBP at 7760'.
6. TIH with tubing to 7760'. RU cementing company. Mix and pump 40 sxs 15.8#/gal CI G cement down tubing. TOC at 7243'.
7. TIH with tubing to 5065'. Mix and pump 30 sxs 15.8#/gal CI G cement down tubing. TOC at 4735'.
8. TIH with casing cutter. Cut 4 1/2" casing at 1920'. Pull cut casing.
9. TIH with tubing to 1970'. RU cementing company. Mix and pump 105 sxs 14.8#/gal Type III cement down tubing. TOC at 1673'.
10. Pick up tubing to 1000'. Mix and pump 434 sxs 14.8#/gal Type III cement down tubing. Cement circulate 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: Valerie Danson

Title: Reg Tech Date: 1/29/2020 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: Jacobson, Eric

Date: 5/19/2020

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>
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Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
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402298170	FORM 6 SUBSEQUENT SUBMITTED
402298270	CEMENT JOB SUMMARY
402298273	OPERATIONS SUMMARY
402298275	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>
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<u>Comment Date</u>

Engineer	Form 17 test on 6/21/2019 had 0 psig was submitted with the Annual Bradenhead Testing upload.	05/19/2020
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Total: 1 comment(s)