

FORM

6

Rev
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
----	----	----	----

Replug By Other Operator

Document Number:

402498091

Date Received:

09/28/2020

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 05-123-13681-00

Well Name: LESSER

Well Number: 7-21

Location: QtrQtr: SWNE

Section: 21

Township: 5N

Range: 66W

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: 40.386834

Longitude: -104.782257

GPS Data: GPS Quality Value: 1.6 Type of GPS Quality Value: Date of Measurement: 07/30/2020

GPS Instrument Operator's Name: Rob Wilson

Reason for Abandonment:


☐ Production Sub-economic

☐ Mechanical Problems

☐ Other

Casing to be pulled:



Estimated Depth:

Fish in Hole:



If yes, explain details below

Wellbore has Uncemented Casing leaks:



If yes, explain details below

Details:

Current and Previously Abandoned Zones

Formation

Perf. Top

Perf. Btm

Abandoned Date

Method of Isolation

Plug Depth

Total: 0 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	26	306	250	306	0	VISU
OPEN HOLE	7+7/8			7,508				

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ 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	213	sks cmt from	7000	ft. to	6228	ft.	Plug Type: OPEN HOLE	Plug Tagged: <input checked="" type="checkbox"/>
Set	260	sks cmt from	4020	ft. to	3515	ft.	Plug Type: OPEN HOLE	Plug Tagged: <input checked="" type="checkbox"/>
Set	213	sks cmt from	1699	ft. to	1190	ft.	Plug Type: OPEN HOLE	Plug Tagged: <input checked="" type="checkbox"/>
Set		sks cmt from		ft. to		ft.	Plug Type: _____	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 570 sacks half in. half out surface casing from 558 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. of _____ inch casing

Cut and Cap Date: 08/28/2020

*Wireline Contractor: _____

*Cementing Contractor: Magnum Cementing Services

Type of Cement and Additives Used: Type III 14.1 PPG MAG S Cement

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

Technical Detail/Comments:

Lesser 7-21 (05-123-13681)/Re-Enter to Re-Plug Procedure

Original Plug Date: 11/15/1987

Producing Formation: N/A (DA well)

Upper Pierre Aquifer: 460'-1440'

TD: 7508'

Surface Casing: 8 5/8" 26# @ 306' w/ 250 sxs cmt

Open Hole: 7 7/8" @ 7508'

Existing Plugs: 310'-230' w/ 25 sx cmt and 32' to surface w/ 10 sx cmt

Procedure:

1. Dig out to find wellhead and check pressure. Cut cap off, extend surface pipe to achieve ground level.
2. MIRU WO unit, ND wellhead, NU BOP, tally all pipe to be ran in well.
3. Mill cement, cement btm is approximately 310' according to well history data.
4. Wash run down to Niobrara @ 7024' the total depth that well allows.
5. PU tubing to 7000'. RU cementing company. Mix and pump 213 sxs 14.1#/gal Type III cement down tubing. (Nio coverage from 6997'-6497') PU tubing above plug and SI well. (Top of Nio @ 7047')
 - a. Wait 4 hours and tagged TOC at 6228'.
6. PU tubing to 4020'. RU cementing company. Mix and pump 213 sxs 14.1#/gal Type III cement down tubing. (Sussex coverage from 4015'-3515') PU tubing above plug and SI well. (Top of Sussex @ 4065')
 - a. Wait 4 hours and tagged TOC at 3687'. RU cementing company. Mix and pump an additional 47 sxs 14.1#/gal Type III cement down tubing. TOC at 3515'.
7. PU tubing to 1699'. RU cementing company. Mix and pump 213 sxs 14.1#/gal Type III cement down tubing (Pierre Aquifer coverage from 1690'-1190'). PU tubing above plug and SI well.
 - a. Wait 4 hours and tagged TOC at 1190'.
8. PU tubing to 558'. RU cementing company. Mix and pump 570 sxs 14.1#/gal Type III cement down tubing. Cement circulate to surface.
 - a. Wait 4 hours and tagged TOC at Surface.
9. RDMO WO unit. Remove extension of surface pipe.
10. Weld on cap with ID plate, inscribed with well location, and identity. Backfill, clean location. Re-Entry complete.

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: 9/28/2020 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: 3/12/2021

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402498091	FORM 6 SUBSEQUENT SUBMITTED
402499063	CEMENT JOB SUMMARY
402499064	OPERATIONS SUMMARY
402499065	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)