

FORM
6Rev
11/20

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:

403006299

Date Received:

04/06/2022

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 05-123-12825-00

Well Name: ARENS

Well Number: 1

Location: QtrQtr: NWNW

Section: 23

Township: 4N

Range: 65W

Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 66961

Field Name: WATTENBERG

Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.302454

Longitude: -104.636225

GPS Data: GPS Quality Value: 2.0

Type of GPS Quality Value: PDOP

Date of Measurement: 12/19/2009

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	7533	7590	01/14/2022	B PLUG CEMENT TOP	7472

Total: 1 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	J55	24	0	523	400	523	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7659	375	7659	5975	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7472 with 2 sacks cmt on top. CIBP #2: Depth 6696 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 <u>10</u> sks cmt from <u>4126</u> ft. to <u>3995</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>100</u> sks cmt from <u>2576</u> ft. to <u>2300</u> ft.	Plug Type: <u>STUB PLUG</u>	Plug Tagged: <input type="checkbox"/>
Set <u>110</u> sks cmt from <u>1481</u> ft. to <u>1244</u> ft.	Plug Type: <u>OPEN HOLE</u>	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 4312 ft. with 90 sacks. Leave at least 100 ft. in casing 4127 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 483 sacks half in. half out surface casing from 740 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: 2500 ft. of 4+1/2 inch casing

Surface Plug Setting Date: 01/18/2022 Cut and Cap Date: 03/31/2022 Number of Days from Setting Surface Plug to Capping or Sealing the Well: 72

*Wireline Contractor: SureFire Wireline Services

*Cementing Contractor: DUCO Inc. Cementing Services

Type of Cement and Additives Used: Class G 15.8 PPG Cement

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

Technical Detail/Comments:

Arens 1 (05-123-12825)/Plugging Procedure
Producing Formation: J-Sand: 7533'-7590'
Upper Pierre Aquifer: 360'-1360'
TD: 7660' PBTD: 7592' (3/12/14)
Surface Casing: 8 5/8" 24# @ 523' w/ 400 sxs cmt
Production Casing: 4 1/2" 11.6# @ 7659' w/ 375 sxs cmt (TOC @ 5975' - CBL)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7472'. Top with 2 sxs 15.8#/gal CI G cement. (Top of J-Sand perfs @ 7533')
4. Ran a CBL from 7000' to Surface.
5. TIH with CIBP. Set BP at 6696'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 6746')
6. TIH with perf gun. Shoot lower squeeze holes at 4312' and upper squeeze holes at 4112'.
7. TIH with CICR. Set CICR at 4127'. RU cementing company. Sting in and pump 100 sxs 15.8#/gal CI G cement. Sting out and leave 10 sxs (of the 100 sxs) cement on top of CICR. (Top of Sussex @ 4362') TOC at 3995'.
8. TIH with casing cutter. Cut 4 1/2" casing @ 2500'. Pull cut casing.
9. TIH with tubing to 2576'. RU cementing company. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Stub plug from 2550'-2300') TOC at 2300'.
10. TIH with tubing to 1481'. Mix and pump 110 sxs 15.8#/gal CI G cement down tubing. (Pierre coverage from 1460'-1260') TOC tagged at 1244'.
11. Pick up with tubing to 740'. Mix and pump 483 sxs 15.8#/gal CI G cement down tubing. Cement circulate to surface.
12. Well casing cut and capped per COGCC guidelines at a depth as not to interfere with soil cultivation.

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 Analyst Date: 4/6/2022 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: 8/8/2022

CONDITIONS OF APPROVAL, IF ANY:

Condition of Approval

COA Type

Description

0 COA	

Attachment List

Att Doc Num

Name

403006299	FORM 6 SUBSEQUENT SUBMITTED
403006374	CEMENT BOND LOG
403006375	CEMENT JOB SUMMARY
403006376	OTHER
403006398	OPERATIONS SUMMARY
403006400	WELLBORE DIAGRAM

Total Attach: 6 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)