

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



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Document Number:

403029767

Date Received:

05/26/2022

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 05-123-37809-00

Well Name: Lofland

Well Number: 22D-232

Location: QtrQtr: SESE Section: 22 Township: 5N Range: 65W 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: 40.378508

Longitude: -104.644537

GPS Data: GPS Quality Value: 3.0 Type of GPS Quality Value: PDOP Date of Measurement: 02/21/2019

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 belowWellbore 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
NIOBRARA	7365	12566	02/04/2022	CEMENT	7315

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	13+3/4	9+5/8	J55	36	0	933	840	933	0	VISU
1ST	8+3/4	7	J55	26	0	7302	640	7302	0	CBL
1ST LINER	6+1/8	4+1/2	J55	13.5	7118	12562				

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 4051 with 5 sacks cmt on top. CIBP #2: Depth 2500 with 5 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 80 sks cmt from 7314 ft. to 6770 ft. Plug Type: CASING Plug Tagged: ☐
Set 16 sks cmt from 4415 ft. to 4172 ft. Plug Type: CASING Plug Tagged: ☐
Set 72 sks cmt from 1450 ft. to 1050 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: ☐

Perforate and squeeze at 4410 ft. with 7 sacks. Leave at least 100 ft. in casing _____ CICR Depth

Perforate and squeeze at 1170 ft. with 5 sacks. Leave at least 100 ft. in casing _____ CICR Depth

Perforate and squeeze at 930 ft. with 15 sacks. Leave at least 100 ft. in casing _____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 183 sacks half in. half out surface casing from 1050 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

Surface Plug Setting Date: 02/08/2022 Cut and Cap Date: 05/12/2022 Number of Days from Setting Surface Plug to Capping or Sealing the Well: 93

*Wireline Contractor: Ranger Energy Services

*Cementing Contractor: Magnum Cementing Services

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

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

Technical Detail/Comments:

Lofland 22D-232 (05-123-37809)/Plugging Procedure

Producing Formation: Niobrara: 7365'-12566'

Upper Pierre Aquifer: 365'-1346'

Deepest Water Well: 350'

TD: 12566' PBTD: 12558' (2/9/2014)

Surface Casing: 9 5/8" 36# @ 933' w/ 840 sxs

Intermediate Casing: 7" 26# @ 7302' w/ 640 sxs cmt (TOC @ Surface - CBL)

Liner: 4 1/2" 13.5# @ 12562', Liner Hanger @ 7118'

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.

2. TIH with CICR. Set CICR at 7315' (90°). (Top of Niobrara frac sleeves @ 7489') RU cementing company. Sting in and attempted to pump cement through perfs, but pressured up to 3000 PSI. Sting out and leave 80 sxs 15.8#/gal MAG G cement on top of CICR. (Top of Niobrara @ 7069'; 72°) TOC at 6770'.

3. RU wireline company.

4. TIH with perf gun. Shoot squeeze holes at 4410'.

5. TIH with tubing to 4415'. RU cementing company. Mix and pump 23 sxs 15.8#/gal MAG G cement down tubing. Squeeze 6.7 sxs (of the 23 sxs) cement through holes at 4410'. TOC at 4172'.

6. TIH with CIBP. Set BP at 4051'. Top with 5 sxs 15.8#/gal CI G cement. (Top of Sussex @ 4101')

7. Ran a CBL from 2500' to Surface. Contacted the State, moved forward with the approved procedure change.

8. TIH with CIBP. Set BP at 2500'. Top with 5 sxs 15.8#/gal CI G cement.

9. TIH with perf gun. Shoot squeeze holes at 1170'.

10. TIH with tubing to 1450'. RU cementing company. Mix and pump 77 sxs 15.8#/gal MAG G cement down tubing. Squeeze 4.9 sxs (of the 77 sxs) cement through holes at 1170'. TOC tagged at 1050'.

11. TIH with perf gun. Shoot squeeze holes at 930'.

12. Pick up tubing to 1050'. RU cementing company. Mix and pump 198 sxs 15.8#/gal MAG G cement down tubing. Squeeze 15 sxs (of the 198 sxs) cement through holes at 930'. Cement circulate to surface.

13. 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: 5/26/2022 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: 8/18/2022

CONDITIONS OF APPROVAL, IF ANY:

Condition of Approval

COA Type

Description

0 COA

Attachment List

Att Doc Num

Name

403029767	FORM 6 SUBSEQUENT SUBMITTED
403029797	CEMENT BOND LOG
403029799	CEMENT JOB SUMMARY
403029801	OTHER
403029804	OTHER
403029806	OPERATIONS SUMMARY
403029808	WELLBORE DIAGRAM
403036310	WIRELINE JOB SUMMARY
403061016	OTHER

Total Attach: 9 Files

General Comments

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

Total: 0 comment(s)