

FORM

6

Rev
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:

403006607

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 05-123-16473-00

Well Name: HUNGENBERG

Well Number: 13-13F

Location: QtrQtr: SWSW

Section: 13

Township: 4N

Range: 66W

Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 61086

Field Name: WATTENBERG

Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.306390

Longitude: -104.731760

GPS Data: GPS Quality Value: 2.3

Type of GPS Quality Value: PDOP

Date of Measurement: 06/28/2006

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
NIOBRARA-CODELL	6988	7211	02/02/2022	B PLUG CEMENT TOP	6938

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	23	0	512	370	512	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7280	225	7280	5740	CBL
S.C. 1.1						7280	300	4560	4060	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6938 with 2 sacks cmt on top. CIBP #2: Depth 4092 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>100</u>	sks cmt from <u>2566</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>1461</u>	ft. to <u>1212</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"/>
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 360 sacks half in. half out surface casing from 714 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: 02/04/2022 Cut and Cap Date: 03/29/2022 Number of Days from Setting Surface Plug to Capping or Sealing the Well: 53

*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:

Hungenberg 13-13F (05-123-16473)/Plugging Procedure
 Producing Formations: Niobrara/Codell: 6988'-7211'

Upper Pierre Aquifer: 370'-1360'
 FOX Hills: 0-213'

Deepest Water Well: 120'

TD: 7316' PBD: 7,240' (4/2/2008)
 Surface Casing: 8 5/8" 23# @ 512' w/ 370 sxs cmt
 Production Casing: 4 1/2" 11.6# @ 7280' w/ 525 sxs cmt (TOC @ 4060' - CBL)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6938'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Nio perfs @ 6988')
4. Ran a CBL from 6500' to Surface (confirmed TOC @ 4060', log not kept).
5. TIH with CIBP. Set BP at 4092'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Sussex @ 4142')
6. TIH with casing cutter. Cut 4 1/2" casing @ 2500'. Pull cut casing.
7. TIH with tubing to 2566'. RU cementing company. Mix and pump 100 sx 15.8#/gal CI G cement down tubing. (Stub plug from 2550'-2300') TOC at 2300'.
8. Pick up tubing to 1461'. Mix and pump 110 sx 15.8#/gal CI G cement down tubing. (Pierre coverage from 1460'-1260') TOC tagged at 1212'.
9. Pick up tubing to 714'. Mix and pump 360 sx 15.8#/gal CI G cement down tubing. Cement circulate to surface.
10. 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**

403006607	FORM 6 SUBSEQUENT SUBMITTED
403006656	CEMENT JOB SUMMARY
403006659	OTHER
403006660	OPERATIONS SUMMARY
403006662	WELLBORE DIAGRAM

Total Attach: 5 Files

General Comments

User Group **Comment** **Comment Date**

		Stamp Upon Approval
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Total: 0 comment(s)