

FORM

6

Rev
11/20

State of Colorado

Energy & Carbon Management 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:

403581080

Date Received:

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: 1099 18TH STREET SUITE 1500

Fax:

City: DENVER

State: CO

Zip: 80202

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 05-001-07238-00

Well Name: STATE-FERGUSON

Well Number: 1

Location: QtrQtr: SWSW

Section: 36

Township: 1S

Range: 67W

Meridian: 6

County: ADAMS

Federal, Indian or State Lease Number:

Field Name: WATTENBERG

Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.917050

Longitude: -104.843120

GPS Data: GPS Quality Value: 1.5

Type of GPS Quality Value: PDOP

Date of Measurement: 02/21/2023

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

Total: 0 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	128	150	128	0	VISU
OPEN HOLE	7+7/8		J55		128	8330				

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	960	sks cmt from	67	ft. to	0	ft.	Plug Type:	ANNULUS	Plug Tagged:	<input checked="" type="checkbox"/>
Set	207	sks cmt from	67	ft. to	0	ft.	Plug Type:	ANNULUS	Plug Tagged:	<input checked="" type="checkbox"/>
Set	200	sks cmt from	2500	ft. to	1360	ft.	Plug Type:	OPEN HOLE	Plug Tagged:	<input checked="" type="checkbox"/>
Set	250	sks cmt from	1313	ft. to	565	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"/>

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 381 sacks half in. half out surface casing from 565 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: 08/19/2023 Cut and Cap Date: 08/25/2023 Number of Days from Setting Surface Plug to Capping or Sealing the Well: 6

*Wireline Contractor: _____

*Cementing Contractor: DUCO & NexTier Cementing

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:

State-Ferguson 1 (05-001-07238)/Re-Enter to Re-Plug Procedure

Original Abandon Date: 5/19/1977

Abandoned Formation: N/A (DA well)

Upper Pierre Aquifer: 1780'-2370'

Fox Hills: 984' – 1211'

Depest Water Well: 1140'

TD: 8330'

Surface Casing: 8 5/8" 23# @ 128' w/ 150 sxs cmt

Open Hole: 7 7/8" @ 128'-8330' (Open Hole OD is assumed)

Existing Plugs: 1230' – 950' (110 sxs cmt), 125' – 75' (25 sxs cmt), 25' to surface (10 sxs cmt)

Procedure:

1. Dig out to find wellhead and check pressure. Cut cap off, extend surface pipe to achieve ground level. MIRU WO unit, ND wellhead, NU BOP, tally all pipe to be ran in well.
2. Found holes in first casing connection between 38'-60'.
3. RU DUCO cementing company 7/27/23. Squeezed 40 sxs 15.8#/gal CI G cement from 67' to surface.
4. Squeezed and pumped 100 sxs 15.8#/gal CI G cement from 75' to Surface of shoe plug on 7/28/23.
5. Ran packers, tested casing, hunted holes. Squeezed and pumped 820 sxs 15.8#/gal CI G cement from 80' to surface of shoe plug on 7/29/23-7/31/23.
6. Continued to run packers, test casing. RU NexTier cementing company 8/2/23. Squeezed 100 sxs 15.8#/gal CI G cement on the surface shoe.
7. Squeezed and pumped 100 sxs 15.8#/gal CI G cement on 8/4/23 and lastly 7 sxs 15.8#/gal CI G cement on 8/5/23 to completely solidify the surface shoe plug.
8. Drilled down through cement btm that was approximately 1230' according to well history data.
9. Drilling ops was terribly slow, spent 17 days drilling up dehydrated mud, plastic material and cement. 2522' was the lowest depth that this well allowed. Contacted the State, moved forward with the approved procedure change.
10. PU tubing to 2500'. RU DUCO cementing company on 8/18/23. Mix and pump 200 sxs 15.8#/gal CI G cement down tubing (Pierre Aquifer coverage from 2470'-2270'). PU tubing above plug and SI well.
 - a. Wait 4 hours and tagged TOC 1360'.
11. PU tubing to 1313'. Mix and pump 250 sxs 15.8#/gal CI G cement down tubing (Fox Hills coverage from 1311'-884'). PU tubing above plug and SI well.
 - a. Wait 4 hours and tagged TOC 565'.
12. PU tubing to 565'. Mix and pump 381 sxs 15.8#/gal CI G cement down tubing. Cement circulate to surface.
13. RDMO WO unit. Remove extension of surface pipe. 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 Analyst

Date: _____

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: _____

Date: _____

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

0 COA	

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403581115	OTHER
403581116	CEMENT JOB SUMMARY
403581117	OTHER
403581118	CEMENT JOB SUMMARY
403581119	CEMENT JOB SUMMARY
403581120	CEMENT JOB SUMMARY
403581121	OPERATIONS SUMMARY
403581122	WELLBORE DIAGRAM

Total Attach: 8 Files

General Comments

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

Total: 0 comment(s)