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

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Date Received: 06/02/2021

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, COGCC contact: Name: Silver, Randy Tel: (720) 827-6688 Email: randy.silver@state.co.us

Type of Well Abandonment Report: [X] Notice of Intent to Abandon [ ] Subsequent Report of Abandonment

API Number 05-013-06224-00

Well Name: CLAY Well Number: 1

Location: QtrQtr: SESW Section: 26 Township: 2N Range: 69W Meridian: 6

County: BOULDER Federal, Indian or State Lease Number: 10484

Field Name: WATTENBERG Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.105833 Longitude: -105.087500

GPS Data: GPS Quality Value: 2.6 Type of GPS Quality Value: Date of Measurement: 07/26/2010

Reason for Abandonment: [ ] Dry [X] Production Sub-economic [ ] Mechanical Problems

[ ] Other

Casing to be pulled: [X] Yes [ ] No Estimated Depth: 2500

Fish in Hole: [ ] Yes [X] No If yes, explain details below

Wellbore has Uncemented Casing leaks: [ ] Yes [X] 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	8027	8041			

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	9+5/8	J55	36	0	611	600	611	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	8167	275	8167	6779	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7977 with 2 sacks cmt on top. CIBP #2: Depth 7234 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 100 sks cmt from 2550 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged: ☐

Set 100 sks cmt from 1630 ft. to 1430 ft. Plug Type: OPEN HOLE Plug Tagged: ☐

Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ 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 _____ 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 285 sacks half in. half out surface casing from 811 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: _____ Cut and Cap Date: _____ Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

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

Technical Detail/Comments:

Clay 1 (05-013-06224)/Plugging Procedure (Intent)
Producing Formation: J Sand: 8027'-8041'
Upper Pierre Aquifer: 500'-1530'
TD: 8167' PBTD: 8132'
Surface Casing: 9 5/8" 36# @ 611' w/ 600 sxs cmt
Production Casing: 4 1/2" 11.6# @ 8167' w/ 275 sxs cmt (TOC @ 6779' - Calc)

Tubing: 2 3/8" tubing set @ 7800'
Proposed Procedure:
1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. Run a CBL from 7900' to Surface (Confirm TOC).
4. TIH with CIBP. Set BP at 7977'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of J Sand perfs @ 8027')
5. TIH with CIBP. Set BP at 7234'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of Niobrara @ 7284')
6. TIH with casing cutter. Cut 4 ½" casing @ 2500'. Pull cut casing.
7. TIH with tubing to 2550'. RU cementing company. Mix and pump 100 sxs 15.8#/gal Cl G cement down tubing. (Stub plug from 2550'-2300')
8. Wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or fluid migration, contact engineering before continuing operations.
9. TIH with tubing to 1630'. Mix and pump 100 sxs 15.8#/gal Cl G cement down tubing. (Pierre coverage from 1630'-1430')
10. Pick up with tubing to 811'. Mix and pump 285 sxs 15.8#/gal Cl G cement down tubing. Cement should circulate to surface.
11. Cut surface casing 6' below ground level and weld on cap.

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: 6/2/2021 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: 6/22/2021

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 12/21/2021

Condition of Approval

COA Type	Description
	CBL to be run prior to plugging to verify existing coverage - submit to COGCC for verification of plugging orders.
	Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations. 1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required. The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples. If there is a need for sampling, contact COGCC engineering for verification of plugging procedure.
	1) Provide 2 business day notice of plugging MIRU via electronic Form 42. 2) After placing the shallowest hydrocarbon isolating plug (7234'), operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations. 3) Prior to placing the 811' plug: verify that all fluid migration (liquid and gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders. 4) After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 210' or shallower and provide 10 sx plug at the surface. 5) Leave at least 100’ of cement in the wellbore for each plug. 6 Properly abandon flowlines as per Rule 1105. Pursuant to Rule 911.a. Closure of Oil and Gas Facilities, Operator will submit Site Investigation and Remediation Work plans via Form 27 for COGCC prior approval before cutting and capping the plugged well, conducting flowline abandonment, and removing production equipment. Pursuant to Rule 1105.f. Abandonment Verification, within 90 days of an operator completing abandonment requirements for a flowline or crude oil transfer line, an operator must submit a Field Operations Notice, Form 42-Abandonment of Flowlines for on-location flowlines, and a Flowline Report, Form 44, for off-location flowlines or crude oil transfer lines. 7) With the Form 6 SRA operator must provide written documentation, which positively affirms each COA has been addressed.

	1. Operator will implement measures to capture, combust, or control emissions to protect health and safety, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public health, welfare and the environment. Due to proximity of building units (BUs) all blowdown gases will be controlled. 2. Prior to commencing operations, the operator will contact Boulder County and City of Longmont to coordinate posting signs at conspicuous locations. The signs will indicate P&A operations are being conducted, the well name, well location information, and the Operator's contact information. Signs must not create a potential traffic hazard. 3. Prior to commencing operations, at a minimum, the operator will provide an informational sheet to the closest BUs that are adjacent to the parcel on which the well is located. The sheet will include the operator's contact information and the nature and timing of the P&A operations. 4. This oil and gas location is within a CPW-mapped bald eagle roost or communal roost High Priority Habitat; P&A activities should not take place from November 15 to March 15. If P&A activities must occur from November 15 to March 15, and there is direct line of sight within 0.5 mile from an active roost to the activity, operator will consult with CPW to develop site specific measures to avoid, minimize, and mitigate impacts to wildlife and the environment.
	Reported "as drilled" GPS data is inaccurate. Submit accurate "as drilled" GPS data on Subsequent Report of Abandonment. GPS data must meet the requirements of Rule 216.
5 COAs	

Attachment List

Att Doc Num	Name
402706306	FORM 6 INTENT SUBMITTED
402706319	WELLBORE DIAGRAM
402706321	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	Well file verification not completed prior to approval of NOIA.	06/22/2021
Engineer	Deepest Water Well within 1 Mile – 260' SB5 Base of Fox Hills - N/A	06/22/2021
Permit	As-drilled GPS inaccurate; COA placed. Verified perf zone. Verified production reporting. Permitting review complete.	06/03/2021

Total: 3 comment(s)