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: 402768875

Date Received: 08/03/2021

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: Peterson, Tom Tel: (970) 370-1281 Email: tom.peterson@state.co.us

Type of Well Abandonment Report: ☒ Notice of Intent to Abandon ☐ Subsequent Report of Abandonment

API Number 05-123-20012-00

Well Name: RORY Well Number: 1

Location: QtrQtr: NESW Section: 24 Township: 4N Range: 67W 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: 40.295302 Longitude: -104.841124

GPS Data: GPS Quality Value: 2.4 Type of GPS Quality Value: Date of Measurement: 06/23/2010

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
CODELL	7248	7258			

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		24	0	434	305	434	0	VISU
1ST	7+7/8	4+1/2		11.6	0	7368	870	7368	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7198 with 2 sacks cmt on top. CIBP #2: Depth 6879 with 2 sacks cmt on top.

CIBP #3: Depth 4072 with 2 sacks cmt on top. CIBP #4: Depth 2500 with 2 sacks cmt on top.

CIBP #5: Depth _____ with _____ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

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: ☐

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 134 sacks half in. half out surface casing from 1760 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:

Rory 1 (05-123-20012)/Plugging Procedure (Intent)
Producing Formation: Codell: 7248'-7258'

Upper Pierre Aquifer: 740'-1660'

Deepest Water Well: 60'

TD: 7369' PBTD: 7315' (09/30/2015)
Surface Casing: 8 5/8" 24# @ 434' w/ 305 sxs cmt
Production Casing: 4 1/2" 11.6# @ 7368' w/ 870 sxs cmt (TOC @ Surface - CBL)

Tubing: 2 3/8" tubing set @ 7234.34' (09/30/2015)
Proposed Procedure:
1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7198'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of Codell perf @ 7248').
4. TIH with CIBP. Set BP at 6879'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of Niobrara @ 6929').
5. TIH with CIBP. Set BP at 4072'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of Sussex @ 4122').
6. TIH with CIBP. Set BP at 2500'. Top with 2 sxs 15.8#/gal Cl G cement.
7. 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.
8. TIH with tubing to 1760'. RU cementing company. Mix and pump 134 sxs 15.8#/gal Cl G cement down tubing. Cement should circulate to surface.
9. 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 Tech Date: 8/3/2021 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: McFarland, Nick Date: 8/10/2021

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 2/9/2022

Condition of Approval

COA Type	Description
	In accordance with the Notice to Operators (NTO): Timing for COGCC Forms adopted on 05/01/2020, this Form 6 Notice of Intent to Abandon is valid for 12 months from the date of approval expiring on 8/10/2022. This NTO does not alter the deadlines for submission of, or compliance with any other Commission rule or Form.
	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 48 hour notice of plugging MIRU via electronic Form 42. 2) After placing the shallowest hydrocarbon isolating plug (4072'), 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 1760' 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 384' 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 Workplans 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 listed above 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, at a minimum, the operator will provide an informational sheet to the owners/occupants of 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 plugging and abandonment (P&A) operations.
4 COAs	

Attachment List

Att Doc Num	Name
402768875	FORM 6 INTENT SUBMITTED
402768895	WELLBORE DIAGRAM
402768896	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	Most recent bradenhead test 7/23/21 - 0 psi. Producing as of June 2021. SB5 Base of Fox Hills: 112' Deepest Water Well Within One Mile: 60' Number of Wells: 34 Production within one mile: JSND, CODL, NBRR, SNSD	08/10/2021
Permit	-Confirmed as-drilled well location. -No other forms in process. -Production reporting up-to-date. -Confirmed productive intervals docnum: 937481. -Reviewed WBDs. -Pass.	08/04/2021

Total: 2 comment(s)