FORM 6 Rev 12/05

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: 401572296

Date Received: 03/13/2018

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: Jenifer Hakkarinen

Name of Operator: PDC ENERGY INC Phone: (303) 8605800

Address: 1775 SHERMAN STREET - STE 3000 Fax:

City: DENVER State: CO Zip: 80203 Email: Jenifer.Hakkarinen@pdce.com

For "Intent" 24 hour notice required, COGCC contact: Name: Kraich, Adam Tel: (970) 420-0536 Email: adam.kraich@state.co.us

API Number 05-123-24016-00

Well Name: CECIL Well Number: 42-26

Location: QtrQtr: SENE Section: 26 Township: 7N Range: 64W Meridian: 6

County: WELD Federal, Indian or State Lease Number:

Field Name: WATTENBERG Field Number: 90750

☒ Notice of Intent to Abandon ☐ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.546190 Longitude: -104.510500

GPS Data:

Date of Measurement: 01/27/2007 PDOP Reading: 4.2 GPS Instrument Operator's Name: H. L. TRACY

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	7018	7028			
NIOBRARA	6748	6874			

Total: 2 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	567	400	567	0	VISU
1ST	7+7/8	4+1/2	10.5	7,169	815	7,169	420	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6698 with 2 sacks cmt on top. CIPB #2: Depth _____ with _____ sacks cmt on top.

CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 25 sks cmt from 1800 ft. to 1500 ft. Plug Type: CASING Plug Tagged: ☐

Set 65 sks cmt from 800 ft. to 0 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: ☐

Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

Perforate and squeeze at 400 ft. with 90 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 _____ sacks half in. half out surface casing from _____ ft. to _____ 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 Plugging Date: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1103 ☐ Yes ☐ No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Cecil 42-26 (05-123-24016)/Plugging Procedure (Intent)
Producing Formation: Niobrara: 6748'-6874' Codell: 7018'-7028'
Upper Pierre Aquifer: 635'-1685'
TD: 7208' PBTD: 7130'
Surface Casing: 8 5/8" 24# @ 567' w/ 400 sxs
Production Casing: 4 1/2" 10.5# @ 7169' w/ 815 sxs cmt (TOC @ 420' - CBL).

Tubing: 2 3/8" tubing set @ 7008' (10/16/2015).
Proposed Procedure:
1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6698'. Top with 2 sxs 15.8#/gal Cl G cement.
4. TIH with tubing to 1800'. RU cementing company. Mix and pump 25 sxs 15.8#/gal Cl G cement down tubing (cement coverage from 1500'-1800'). TOOH with tubing.
5. TIH with perforation gun. Shoot 2 holes for annular squeeze at 400' @ 1 SPF or preferred.
6. TIH with tubing to 800'. RU cementing company. Mix and pump 65 sxs 15.8#/gal Cl G cement down tubing. Cement should circulate to surface. TOOH with tubing.
7. Close off casing returns. Hook up cement line to cement flange and pump 90 sxs 15.8#/gal Cl G cement downhole and squeeze through perforations at 400' into annular space. Cement should circulate to surface.
8. 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: Jenifer Hakkarinen

Title: Reg Tech Date: 3/13/2018 Email: Jenifer.Hakkarinen@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: HICKEY, MIKE Date: 3/14/2018

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 9/13/2018

COA Type	Description
	Prior to starting plugging operations a bradenhead test shall be performed. 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. 3)If sampling is required contact COGCC engineering for a confirmation of plugging requirements prior to placing any plugs. 4)Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. The Form 17 shall be submitted within 10 days of the test. 5)Submit Form 42 electronically to COGCC 48 hours prior to MIRU 6)Prior to placing the 800' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging requirements. 7)After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours and tag plug – top of plug must be not deeper than 517' and provide minimum 10 sx plug at the surface. Leave at least 100' of cement in 8)the wellbore for each plug. 9)Properly abandon all flowlines. Once flowlines are properly abandoned, file electronic form 42.
	Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.

Attachment Check List

Att Doc Num	Name
401572296	FORM 6 INTENT SUBMITTED
401572311	WELLBORE DIAGRAM
401572312	WELLBORE DIAGRAM
401572314	GYRO SURVEY

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Permit	•Per Scout Card, operator comments, and wellbore diagrams, corrected the bottom perf/prod interval for the Niobrara zone.	03/14/2018
Public Room	Pass	03/14/2018

Total: 2 comment(s)