

FORM
6Rev
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:

401434499

Date Received:

10/18/2017

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,

Name: O'Donnell, Shaun

Tel: (720) 305-8280

COGCC contact:

Email: shaun.odonnell@state.co.us

API Number 05-123-22891-00

Well Name: HAZEN

Well Number: 23-28

Location: QtrQtr: NESW Section: 28 Township: 7N Range: 65W 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: 40.543580

Longitude: -104.670250

GPS Data:

Date of Measurement: 07/29/2006

PDOP Reading: 3.4

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: 650

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	7230	7238			

Total: 1 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	441	250	441	0	VISU
1ST	7+7/8	4+1/2	10.5	7,368	506	7,368	3,210	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7180 with 2 sacks cmt on top. CIBP #2: Depth 6861 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 225 sks cmt from 700 ft. to 0 ft. Plug Type: STUB PLUG 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 _____ 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. _____ inch casing Plugging Date: _____
of _____

*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:

Hazen 23-28 (05-123-22891)/Plugging Procedure (Intent)
Producing Formation (Perforations): Codell: 7230'-7238'
TD: 7410' PBDT: 7377'
Surface Casing: 8 5/8" 24# @ 441' w/ 250 sxs
Production Casing: 4 1/2" 10.5# @ 7368' w/ 506 sxs cmt (TOC @ 3210' - CBL).

Tubing: No tubing information available.

Proposed Procedure:

1. Run gyro survey.
2. RU wireline company. Remove stage tool set at 4290' (1/5/2015).
3. MIRU pulling unit. Pull unknown tubing.
4. RU wireline company.
5. TIH with CIBP. Set BP at 7180. Top with 2 sxs 15.8#/gal CI G cement.
6. TIH with CIBP. Set BP at 6861'. Top with 2 sxs 15.8#/gal CI G cement.
7. TIH with casing cutter. Cut 4 1/2" casing at 650'. Pull cut casing.
8. TIH with tubing to 700'. RU cementing company. Mix and pump 225 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
9. 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: 10/18/2017 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, MIKE

COGCC Approved:

Date: 11/17/2017

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 5/16/2018

COA Type

Description

	Operator shall submit a written safety plan applicable to all location(s) undergoing plugging operations in Colorado, by email to Mike Leonard at mike.leonard@state.co.us. The safety plan shall describe the measures Operator will implement at the location(s) to eliminate unnecessary and excessive venting or flaring of natural gas, to protect the health and safety of the public, and to ensure that odors from well plugging operations do not constitute a nuisance or hazard to public welfare.
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Prior to placing the 700' 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. 3) 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 391' and provide minimum 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug. 4) Properly abandon flowlines. Once flowlines are properly abandoned, file electronic form 42.

Attachment Check List

Att Doc Num

Name

401434499	FORM 6 INTENT SUBMITTED
401434529	WELLBORE DIAGRAM
401434530	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

Engineer	Bradenhead test dated 11/7/2017 shows no pressure/no flow.	11/17/2017
Public Room	Document verification complete 10/20/17	10/20/2017

Total: 2 comment(s)