

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:

401256663

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: Kelsi Welch

Name of Operator: PDC ENERGY INC

Phone: (303) 831-3974

Address: 1775 SHERMAN STREET - STE 3000

Fax:

City: DENVER State: CO Zip: 80203

Email: kelsi.welch@pdce.com

For "Intent" 24 hour notice required,

Name: Gomez, Jason

Tel: (970) 573-1277

COGCC contact:

Email: jason.gomez@state.co.us

API Number 05-123-12581-00

Well Name: HAZEL

Well Number: 1-21

Location: QtrQtr: SESE Section: 21 Township: 5N Range: 65W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 68149

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: 40.379167

Longitude: -104.661389

GPS Data:

Date of Measurement: 05/03/2010

PDOP Reading: 3.0

GPS Instrument Operator's Name: Chuck Kraft

Reason for Abandonment:

☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ Other

Casing to be pulled:

☒ Yes☐ No

Estimated Depth: 550

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
NIOBRARA	6700	6919			
CODELL	7014	7019	09/20/2006	B PLUG CEMENT TOP	6975

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	342	250	342	0	
1ST	7+7/8	4+1/2	11.6	7,108	200	7,108	6,370	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6650 with 2 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 230 sks cmt from 600 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 4650 ft. with 300 sacks. Leave at least 100 ft. in casing 4100 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:

Hazel 1-21 (05-123-12581)/Plugging Procedure (Intent)
Producing Formation: Niobrara 6700'-6919'
Plugged Back Formation: Codell 7012'-7019'
Existing CIBP set at: 6975' w/ 2 sxs
TD: 7125' PBTD: 7090'
Surface Casing: 8 5/8" 24# @ 342' w/ 250 sxs.
Production Casing: 4 1/2" 11.6# @ 7108' w/ 200 sks cmt. (TOC at 6370' - CBL)

Tubing: 2 3/8" tubing set at 6673'. (1/24/2011)

Proposed Procedure:

1. MIRU RU pulling unit. Pull tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6650'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with perforating gun. Perforate 4 squeeze holes at 4650'.
5. TIH with cement retainer. Set retainer at 4100'.
6. TIH with tubing. Sting into retainer at 4100'. Establish rate. Mix and pump 300 sxs 15.8#/gal CI G cement down tubing. Displace cement to top of retainer. TOOH with tubing.
7. TIH with casing cutter. Cut 4 1/2" casing at 550'. Pull cut casing.
8. TIH with tubing to 600'. Mix and pump 230 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: Kelsi Welch

Title: Production Tech Date: _____ Email: kelsi.welch@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: _____

Expiration Date: _____

<u>COA Type</u>	<u>Description</u>
-----------------	--------------------

--	--

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
--------------------	-------------

401257117	WELLBORE DIAGRAM
401257118	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
-------------------	----------------	---------------------

		Stamp Upon Approval
--	--	---------------------

Total: 0 comment(s)