

FORM  
6Rev  
12/05State 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:

401166336

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: Peterson, Tom

Tel: (303) 815-9641

COGCC contact:

Email: tom.peterson@state.co.us

API Number 05-123-12053-00

Well Name: NYGREN

Well Number: 19-2

Location: QtrQtr: SWSW Section: 19 Township: 4N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 65508

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: 40.293640

Longitude: -104.939390

GPS Data:

Date of Measurement: 11/16/2007

PDOP Reading: 2.8

GPS Instrument Operator's Name: Holly L. Tracy

Reason for Abandonment: ☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ OtherCasing 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	7352	7366			
NIOBRARA	7056	7147			

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	348	280	348	0	
1ST	7+7/8	4+1/2	11.6	7,448	300	7,448	6,485	CBL
S.C. 1.1				500	190	500	20	
S.C. 1.2				2,379	100	2,379	2,314	
S.C. 1.3				3,051	100	3,051	3,020	

### Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7302 with 2 sacks cmt on top. CIPB #2: Depth 7006 with 2 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 40 sks cmt from 2800 ft. to 3300 ft. Plug Type: CASING Plug Tagged: ☐

Set 40 sks cmt from 2100 ft. to 2600 ft. Plug Type: CASING Plug Tagged: ☐

Set 45 sks cmt from 540 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: ☐

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. 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:

Nygren 19-2 (05-123-12053)/Plugging Procedure (Intent)  
Producing Formation: Codell 7352'-7366' Niobrara 7056'-7147'  
TD: 7450' PBTD: 7396'  
Surface Casing: 8 5/8" 24# @ 348' w/ 280 sxs  
Production Casing: 4 1/2" 11.6# @ 7448' w/300 sxs cmt (TOC 6485' – CBL)  
Holes in casing from 3020'-3051' were squeezed with 100 sxs  
Holes in casing from 2314'-2379' were squeezed with 100 sxs  
Performed annular fill from 20'-500' with 190 sxs

Tubing: 2 3/8" tubing set at 7335'. (12/1/2010) NOTE: Arrowset 3 packer at 4575'.

**Proposed Procedure:**

1. MIRU RU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set CIBP at 7302'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set CIBP at 7006'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with tubing to 3300'. Mix and pump 40 sxs of 15.8#/gal CI G cement down tubing.
6. Reset tubing to 2600'. Mix and pump 40 sxs of 15.8#/gal CI G cement down tubing.
7. Run cement bond log from 1000' to surface to verify annular cement coverage. If annulus shows no cement coverage from 500' to surface notify Denver office.
8. TIH with tubing to 540'. Mix and pump 45 sxs of 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: \_\_\_\_\_

**COA Type**

**Description**

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**Attachment Check List**

**Att Doc Num**

**Name**

401166353	WELLBORE DIAGRAM
401166354	WELLBORE DIAGRAM

Total Attach: 2 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

		Stamp Upon Approval
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Total: 0 comment(s)