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 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: 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: \_\_\_\_\_ Tel: \_\_\_\_\_  
 COGCC contact: Email: \_\_\_\_\_

API Number 05-123-23029-00 Well Number: 23-22  
 Well Name: KOHLHOFF  
 Location: QtrQtr: NESW Section: 22 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: 40.556390 Longitude: -104.538690  
 GPS Data:  
 Date of Measurement: 12/04/2006 PDOP Reading: 3.6 GPS Instrument Operator's Name: Holly 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	7126	7134	02/15/2018	B PLUG CEMENT TOP	7026

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	411	230	411	0	VISU
1ST	7+7/8	4+1/2	10.5	7,320	485	7,320	2,706	CBL
S.C. 1.1				646	200	646	0	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7026 with 2 sacks cmt on top. CIBP #2: Depth 6778 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 20 sks cmt from 2929 ft. to 2672 ft. Plug Type: CASING Plug Tagged:   
Set 75 sks cmt from 665 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 650 ft. with 10 sacks. Leave at least 100 ft. in casing 665 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: 02/15/2018

\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used: 15.8#/gal CL G cement

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

Technical Detail/Comments:

Kohlhoff 23-22 (05-123-23029)/Plugging Procedure  
Producing Formation (Perforations): Codell: 7126'-7134'  
TD: 7356' PBD: 7305'  
Surface Casing: 8 5/8" 24# @ 411' w/ 230 sxs  
Production Casing: 4 1/2" 10.5# @ 7320' w/ 485 sxs cmt (TOC @ 2706' - CBL). Existing annular fill cement w/ 200 sxs cmt (Surface - 646': CBL).

Tubing: 2 3/8" tubing set @ 7233' (12/2/2015).

Procedure:

1. Run gyro survey.
2. MIRU pulling unit. Pull 2 3/8" tubing.
3. RU wireline company.
4. TIH with CIBP. Set BP at 7026'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with CIBP. Set BP at 6778'. Top with 2 sxs 15.8#/gal CI G cement.
6. TIH with tubing to 2929'. Mix and pump 20 sxs 15.8#/gal CI G cement to 2672'.
7. Shoot lower squeeze holes at 750'. Shoot upper squeeze holes at 650'. Unable to establish circulation after several attempts. Mixed and pumped pill of SAPP to attempt to break possible bridge. Still unable to establish circulation through squeeze holes.
8. Set packer at 665'. Sting in and pump 75 sxs 15.8#/gal CI G cement. Sting out release packer.
9. TIH with cement retainer set at 665'. Sting into retainer and pump 75 sxs of 15.8#/gal CI G cement. sting out of retainer.
10. Mix and pump 56 sxs 15.8#/gal CI G cement to surface. Squeeze additional 10 sxs 15.8#/gal CI G cement into upper squeeze holes.
11. 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:

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: \_\_\_\_\_

Date: \_\_\_\_\_

**CONDITIONS OF APPROVAL, IF ANY:**

**COA Type**

**Description**

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**Attachment Check List**

**Att Doc Num**

**Name**

401566011	GYRO SURVEY
401566021	CEMENT JOB SUMMARY
401566037	WELLBORE DIAGRAM

Total Attach: 3 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

		Stamp Upon Approval
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Total: 0 comment(s)