

**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.

Document Number:  
 401627152  
  
 Date Received:  
 05/02/2018

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 05-123-20659-00 Well Number: 41-21  
 Well Name: FICKEL  
 Location: QtrQtr: NENE Section: 21 Township: 4N Range: 67W 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: 40.304140 Longitude: -104.888110  
 GPS Data:  
 Date of Measurement: 07/15/2010 PDOP Reading: 1.6 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	7275	7285	03/28/2018	B PLUG CEMENT TOP	7225

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	401	280	401	0	VISU
1ST	7+7/8	4+1/2	10.5	7,441	200	7,441	6,440	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7225 with 2 sacks cmt on top. CIBP #2: Depth 6905 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 10 sks cmt from 4565 ft. to 4439 ft. Plug Type: CASING Plug Tagged:   
 Set 160 sks cmt from 1725 ft. to 1280 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:

Perforate and squeeze at 4950 ft. with 190 sacks. Leave at least 100 ft. in casing 4565 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 247 sacks half in. half out surface casing from 653 ft. to 0 ft. Plug Tagged:   
 Set 17 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: 1600 ft. 4+1/2 inch casing Plugging Date: 03/30/2018  
 of \_\_\_\_\_  
 \*Wireline Contractor: Ranger \*Cementing Contractor: C&J  
 Type of Cement and Additives Used: 15.8 PPG CL G NEAT + 2% CaCl  
 Flowline/Pipeline has been abandoned per Rule 1105  Yes  No \*ATTACH JOB SUMMARY

#### Technical Detail/Comments:

Fickel 41-21 (05-123-20659)/Plugging Procedure  
 Producing Formation (Perforations): Codell: 7275'-7285'  
 TD: 7480' PBD: 7429'  
 Surface Casing: 8 5/8" 24# @ 401' w/ 280 sxs  
 Production Casing: 4 1/2" 10.5# @ 7441' w/ 200 sxs cmt (TOC @ 6440' - CBL).  
 Tubing: 2 3/8" tubing set @ 7266' (4/4/2002).  
 Procedure:  
 1. MIRU pulling unit. Pull 2 3/8" tubing.  
 2. RU wireline company.  
 3. TIH with CIBP. Set BP at 7225'. Top with 2 sxs 15.8#/gal CI G cement.  
 4. TIH with CIBP. Set BP at 6905'. Top with 2 sxs 15.8#/gal CI G cement.  
 5. Shoot lower squeeze holes at 4950'. Shoot upper squeeze holes at 4550'.  
 6. Set CICR at 4565'. Sting in and pump 190 sxs 15.8#/gal CI G cement. Sting out and pump 10 sxs on top of CICR.  
 7. TIH with casing cutter. Cut 4 1/2" casing at 1600'. Pull cut casing.  
 8. TIH with tubing to 1725'. RU cementing company. Mix and pump 160 sxs 15.8#/gal CI G + 2% CaCl cement down tubing to 1280'.  
 9. TIH with tubing to 653'. RU cementing company. Mix and pump 264 sxs 15.8#/gal CI G + 2% CaCl cement down tubing. Cement circulate to surface.  
 10. 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: 5/2/2018 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: Bouzek, Jared

Date: 12/3/2018

**CONDITIONS OF APPROVAL, IF ANY:**

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

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
401627152	FORM 6 SUBSEQUENT SUBMITTED
401627207	CEMENT JOB SUMMARY
401627215	WELLBORE DIAGRAM

Total Attach: 3 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Agency	Request sent to Jenifer.Hakkarinen@pdce.com For submittal of Form 42 Flowline, and well logs run durring PA.	10/09/2018

Total: 1 comment(s)