

Document Number:  
401940884

Date Received:  
02/19/2019

**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: Valerie Danson  
 Name of Operator: PDC ENERGY INC Phone: (970) 506-9272  
 Address: 1775 SHERMAN STREET - STE 3000 Fax: \_\_\_\_\_  
 City: DENVER State: CO Zip: 80203 Email: valerie.danson@pdce.com

**For "Intent" 24 hour notice required,** Name: \_\_\_\_\_ Tel: \_\_\_\_\_  
 COGCC contact: Email: \_\_\_\_\_

API Number 05-123-25217-00 Well Number: 33-17U  
 Well Name: HANKINS  
 Location: QtrQtr: NWSE Section: 17 Township: 5N 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: 40.398250 Longitude: -104.913780  
 GPS Data:  
 Date of Measurement: 01/19/2008 PDOP Reading: 3.5 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	7242	7252	01/14/2019	B PLUG CEMENT TOP	7192
J SAND	7714	7728	01/14/2019	B PLUG CEMENT TOP	7664

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	523	410	523	0	VISU
1ST	7+7/8	4+1/2	10.5	7,859	225	7,859	6,352	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7664 with 2 sacks cmt on top. CIBP #2: Depth 7192 with 2 sacks cmt on top.  
 CIBP #3: Depth 6863 with 2 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 2514 ft. to 2256 ft. Plug Type: CASING Plug Tagged:   
 Set 135 sks cmt from 485 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 \_\_\_\_\_ 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 255 sacks half in. half out surface casing from 1552 ft. to 485 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: 1400 ft. 4+1/2 inch casing Plugging Date: 01/16/2019  
 of \_\_\_\_\_  
 \*Wireline Contractor: C&J Energy Services \*Cementing Contractor: C&J Energy Services  
 Type of Cement and Additives Used: Class G 15.8 PPG Cement & Type III 14.8 PPG Portland Cement  
 Flowline/Pipeline has been abandoned per Rule 1105  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

Hankins 33-17U (05-123-25217)/Plugging Procedure  
 Producing Formation: J Sand: 7714'-7728' Codell: 7242'-7252'  
 Upper Pierre Aquifer: 410'-1220'  
 TD: 7888' PBTD: 7837.8'  
 Surface Casing: 8 5/8" 24# @ 523' w/ 410 sxs cmt  
 Production Casing: 4 1/2" 10.5# @ 7859' w/ 225 sxs cmt (TOC @ 6352' - CBL).

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7664'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set BP at 7192'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with CIBP. Set BP at 6863'. Top with 2 sxs 15.8#/gal CI G cement.
6. TIH with tubing to 2514'. RU cementing company. Mix and pump 20 sxs 15.8#/gal Class G cement down tubing. TOC at 2256'.
7. TIH with casing cutter. Cut 4 1/2" casing at 1400'. Pull cut casing.
8. TIH with tubing to 1552'. RU cementing company. Mix and pump 390 sxs 14.8#/gal Type III cement down tubing (Pierre coverage from 1515'-1100'). Cement 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: Valerie Danson  
 Title: Reg Tech Date: 2/19/2019 Email: valerie.danson@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: 5/14/2019

**CONDITIONS OF APPROVAL, IF ANY:**

**COA Type**

**Description**

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**Attachment Check List**

**Att Doc Num**

**Name**

401940884	FORM 6 SUBSEQUENT SUBMITTED
401940908	CEMENT JOB SUMMARY
401940916	WELLBORE DIAGRAM
401943920	WIRELINING JOB SUMMARY

Total Attach: 4 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

Engineer	*PA ops started before date indicated on form 42. Scheduled start 1/16/19, actual start 1/14/19.	04/30/2019
Engineer	*Form 17 filed. 150 psi -> 0. Sample was NOT taken as required. Emailed valerie.danson@pdce.com 4/30/19 regarding sample.	04/30/2019
Engineer	Form 7 status set to PA. Form 42 filed for flowline abandonment. GPS location appears accurate on maps. Zones and casing history are consistent with approved intent. WBD, procedure and tickets are consistent.	04/30/2019
Permit	Returned to draft for operator to attach additional wireline ticket.	02/18/2019

Total: 4 comment(s)