

Document Number:  
 402179663  
 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: 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: Serna, Abe Tel: (720) 661-7317  
**COGCC contact:** Email: abe.serna@state.co.us

API Number 05-123-20191-00  
 Well Name: PIGEON Well Number: 1  
 Location: QtrQtr: NWNW Section: 20 Township: 5N 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: 40.390000 Longitude: -104.580833  
 GPS Data:  
 Date of Measurement: 04/22/2010 PDOP Reading: 2.3 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: 600  
 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	6887	6897			
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	357	250	357	0	VISU
1ST	7+7/8	4+1/2	16.6	6,999	700	6,999	936	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6837 with 2 sacks cmt on top. CIBP #2: Depth 6560 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 25 sks cmt from 1510 ft. to 1180 ft. Plug Type: CASING Plug Tagged:   
 Set 185 sks cmt from 650 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:   
 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. \_\_\_\_\_ inch casing Cut and Cap Date: \_\_\_\_\_  
 of \_\_\_\_\_  
 \*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_  
 Type of Cement and Additives Used: \_\_\_\_\_  
 Flowline/Pipeline has been abandoned per Rule 1105  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

Pigeon 1 (05-123-20191) Plugging Procedure (Intent)  
 Producing Formation: Codell: 6887'-6897'

Upper Pierre Aquifer: 260'-1350'  
 TD: 7029' PBD: 6973' (3/1/2018)  
 Surface Casing: 8 5/8" 24# @ 357' w/ 250 sxs  
 Production Casing: 4 1/2" 16.6# @ 6999' w/ 700 sxs cmt (TOC @ 936' – CBL + Daily Report)

Tubing: 2 3/8" tubing set @ 6877' (3/1/2018)  
 Proposed Procedure:  
 1. MIRU pulling unit. Pull 2 3/8" tubing.  
 2. RU wireline company.  
 3. TIH with CIBP. Set BP at 6837'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Codell perms @ 6887')  
 4. TIH with CIBP. Set BP at 6560'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 6610')  
 5. TIH with tubing to 1510'. RU cementing company. Mix and pump 25 sxs 15.8#/gal CI G cement down tubing (Pierre coverage from 1510'-1180').  
 6. Condition wellbore for log run.  
 7. RU wireline company.  
 8. Run CBL from 1100' to surface to confirm TOC @ 936' and that casing can be cut @ 600'.  
 9. TIH with casing cutter. Cut 4 1/2" casing at 600'. Pull cut casing.  
 10. TIH with tubing to 650'. Mix and pump 185 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface (Pierre coverage from 600'-surface). TOOH with tubing.  
 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: Valerie Danson

Title: Reg Tech

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

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: \_\_\_\_\_

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_

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

<b>COA Type</b>	<b>Description</b>

**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
402179762	WELLBORE DIAGRAM
402179763	WELLBORE DIAGRAM

Total Attach: 2 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
		Stamp Upon Approval

Total: 0 comment(s)