

**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:  
 402461793  
 Date Received:

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: Santistevan, Brittani Tel: (720) 471-1110  
**COGCC contact:** Email: brittani.santistevan@state.co.us

Type of Well Abandonment Report:  Notice of Intent to Abandon  Subsequent Report of Abandonment

API Number 05-123-13681-00  
 Well Name: LESSER Well Number: 7-21  
 Location: QtrQtr: SWNE Section: 21 Township: 5N Range: 66W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_  
 Field Name: WATTENBERG Field Number: 90750

*Only Complete the Following Background Information for Intent to Abandon*

Latitude: 40.386834 Longitude: -104.782257  
 GPS Data: GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 07/30/2020  
 GPS Instrument Operator's Name: Rob Wilson  
 Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other Re-enter to Re-plug for PDC's Stugart and Ridge developments  
 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

Total: 0 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	26	306	250	306	0	VISU

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top. CIBP #2: Depth \_\_\_\_\_ with \_\_\_\_\_ 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 178 sks cmt from 6997 ft. to 6497 ft. Plug Type: OPEN HOLE Plug Tagged:   
 Set 178 sks cmt from 4015 ft. to 3515 ft. Plug Type: OPEN HOLE Plug Tagged:   
 Set 178 sks cmt from 1690 ft. to 1190 ft. Plug Type: OPEN HOLE 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 178 sacks half in. half out surface casing from 540 ft. to 0 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

#### Technical Detail/Comments:

Lesser 7-21 (05-123-13681)/Re-Enter to Re-Plug Procedure (Intent)  
 Original Plug Date: 11/15/1987  
 Producing Formation: N/A (DA well)  
 Upper Pierre Aquifer: 460'-1440'  
 TD: 7508'  
 Surface Casing: 8 5/8" 26# @ 306' w/ 250 sxs cmt  
 Open Hole: 7 7/8" @ 7508'  
 Existing Plugs: 310'-230' w/ 25 sx cmt and 32' to surface w/ 10 sx cmt  
 Proposed Procedure:  
 1. Dig out to find wellhead and check pressure. Cut cap off, extend surface pipe to achieve ground level.  
 2. MIRU WO unit, ND wellhead, NU BOP, tally all pipe to be ran in well.  
 3. Mill cement, cement btm is approximately 310' according to well history data.  
 4. Wash run down to Niobrara @ 7047' or depth that well allows.  
 5. PU tubing to 6997'. RU cementing company. Mix and pump 178 sxs 15.8#/gal CI G cement down tubing. (Niobrara coverage from 6997'-6497') PU tubing above plug and SI well. (Top of Niobrara @ 7047')  
 a. Wait 4 hours and tag plug  
 6. PU tubing to 4015'. RU cementing company. Mix and pump 178 sxs 15.8#/gal CI G cement down tubing. (Sussex coverage from 4015'-3515') PU tubing above plug and SI well. (Top of Sussex @ 4065')  
 a. Wait 4 hours and tag plug  
 7. PU tubing to 1690'. RU cementing company. Mix and pump 178 sxs 15.8#/gal CI G cement down tubing (Pierre Aquifer coverage from 1690'-1190'). PU tubing above plug and SI well.  
 a. Wait 4 hours and tag plug  
 8. PU tubing to 540'. RU cementing company. Mix and pump 178 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.  
 a. Wait 4 hours and tag plug  
 9. RDMO WO unit. Remove extension of surface pipe. Top off if necessary.  
 10. Weld on cap with ID plate, inscribed with well location, and identity. Backfill, clean location. Re-Entry complete.

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: \_\_\_\_\_

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

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
402461795	WELLBORE DIAGRAM
402461796	WELLBORE DIAGRAM
402461798	SURFACE OWNER CONSENT
402461800	OTHER
402461801	LOCATION PHOTO

Total Attach: 5 Files

**General Comments**

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

Total: 0 comment(s)