

Document Number:  
 402158909  
 Date Received:  
 08/27/2019

**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: Peterson, Tom Tel: (970) 370-1281  
**COGCC contact:** Email: tom.peterson@state.co.us

API Number 05-123-20140-00 Well Name: OLSON Well Number: 29-12  
 Location: QtrQtr: SWNW Section: 29 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: 40.285500 Longitude: -104.920890  
 GPS Data:  
 Date of Measurement: 07/15/2010 PDOP Reading: 1.2 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: 1450  
 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	7307	7313			

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	413	285	413	0	VISU
1ST	7+7/8	4+1/2	10.5	7,518	160	7,518	6,350	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7257 with 2 sacks cmt on top. CIBP #2: Depth 6951 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 255 sks cmt from 1575 ft. to 1150 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:   
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 720 sacks half in. half out surface casing from 660 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 \*ATTACH JOB SUMMARY

#### Technical Detail/Comments:

Olson 29-12 (05-123-20140)/Plugging Procedure (Intent)  
Producing Formation: Codell: 7307'-7313'  
Upper Pierre Aquifer: 316'-1350'  
TD: 7600' PBTD: 7466'  
Surface Casing: 8 5/8" 24# @ 413' w/ 285 sxs  
Production Casing: 4 1/2" 10.5# @ 7518' w/ 160 sxs cmt (TOC @ 6350' - CBL).  
Tubing: 2 3/8" tubing set @ 7294' (11/14/2001).  
Proposed 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 7257'. Top with 2 sxs 15.8#/gal CI G cement.  
5. TIH with CIBP. Set BP at 6951'. Top with 2 sxs 15.8#/gal CI G cement.  
6. TIH with casing cutter. Cut 4 1/2" casing at 1450'. Pull cut casing.  
7. TIH with tubing to 1575'. RU cementing company. Mix and pump 255 sxs 15.8#/gal CI G cement down tubing (Pierre aquifer coverage from 1575'-1150').  
8. PU tubing to 660'. Mix and pump 720 sxs 15.8#/gal CI G cement down tubing. Cement should 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: 8/27/2019 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, Stephen \_\_\_\_\_

COGCC Approved: \_\_\_\_\_

Date: 9/13/2019

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

Expiration Date: 3/12/2020

**COA Type**

**Description**

	<p><b>Plugging</b>            1) Provide 48 hour notice of plugging MIRU via electronic Form 42.            2) Properly abandon flowlines as per Rule 1105. File electronic Form 42 once abandonment complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line the operator must submit a Flowline Report, Form 44.            3) Plugs and squeezes will be placed as stated in the Plugging Procedure section of the approved NOIA unless revised by COA or prior approval from COGCC is obtained.            4) The wellbore must be static prior to placing cement plugs which are to be a minimum of 100' in length for all but surface plugs. Mechanical isolation requires a 25' cement plug, minimum.            5) Place a 50' plug (minimum) at the surface, both inside the inner most casing and in all annular spaces. Confirm cement to surface in all strings during cut and cap.            6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.            7) Contact area inspector prior to commencing plugging operations.            8) No current Form 17 on file with COGCC. Contact COGCC area engineer and inspector with results of pre-plugging bradenhead test for confirmation of plugging procedure prior to commencing plugging operations.            9) After placing the shallowest hydrocarbon isolating plug (1575-1150'), operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations.</p>
	<p><b>Venting</b>            Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.</p>
	<p><b>Bradenhead Testing</b>            Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations.            1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.            2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.             The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.             If there is a need for sampling, contact COGCC engineering for verification of plugging procedure.</p>

**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
402158909	FORM 6 INTENT SUBMITTED
402158934	WELLBORE DIAGRAM
402158936	WELLBORE DIAGRAM

Total Attach: 3 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	SB5 No results L-FH + 50 = 600 + 50 = 650' WW + Elev + 50 = 590 + 4956 - 4970 + 50 = 626' Logs 3/11/01 UPA base 1350'	09/13/2019
Permit	Ready to pass form. Confirmed as drilled lat/long is accurate. Final Form 5/Drilling Completion Report on file as doc# 1072297. Codell formation completion confirmed via Form 5A/Completed Interval Report(s): doc# 1072298. Confirmed Form 7 production reporting is accurate.	09/03/2019

Total: 2 comment(s)