

Document Number:  
401792143

Date Received:  
10/12/2018

**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: Kraich, Adam Tel: (970) 420-0536

**COGCC contact:** Email: adam.kraich@state.co.us

API Number 05-123-11689-00

Well Name: HERGERT Well Number: 1-6

Location: QtrQtr: SWSE Section: 6 Township: 6N Range: 66W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 55675

Field Name: EATON Field Number: 19350

Notice of Intent to Abandon       Subsequent Report of Abandonment

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

Latitude: 40.511360 Longitude: -104.819580

GPS Data:  
Date of Measurement: 08/07/2010 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	7327	7338			

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	253	200	253	0	VISU
1ST	7+7/8	4+1/2	10.5	7,864	330	7,864	6,259	CBL
S.C. 1.1				796	235	796	0	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7277 with 2 sacks cmt on top. CIBP #2: Depth 6945 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 45 sks cmt from 525 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:   
 Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:

Perforate and squeeze at 1600 ft. with 205 sacks. Leave at least 100 ft. in casing 1315 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 Plugging 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:

Hergert 1-6 (05-123-11689)/Plugging Procedure (Intent)  
 Producing Formation: Codell: 7327'-7338'  
 Upper Pierre Aquifer: 419'-1410'  
 TD: 7870' PBTD: 7398'  
 Surface Casing: 8 5/8" 24# @ 253' w/ 200 sxs  
 Production Casing: 4 1/2" 10.5# @ 7864' w/ 330 sxs cmt (TOC @ 6259' - CBL).  
 Annular fill cmt @ 796' w/ 235 sxs cmt (TOC @ Surface' - CBL).  
 Existing CIBP @ 7697' w/ 2 sxs cmt (02/09/2006).

Tubing: 2 3/8" tubing set @ 7307.9' (09/10/2013).  
 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 @ 7277'. Top with 2 sxs 15.8#/gal CI G cement.  
 5. TIH with CIBP. Set BP @ 6945'. Top with 2 sxs 15.8#/gal CI G cement.  
 6. TIH with perforation gun. Shoot lower squeeze holes at 1600' for Pierre Aquifer coverage. Shoot upper squeeze holes at 1300'.  
 7. Set CICR at 1315'. RU cementing company. Sting in and pump 205 sxs 15.8#/gal CI G cement. Sting out and pump 10 sxs on top of CICR.  
 8. Pick up tubing to 525'. Mix and pump 45 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

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: Jacobson, Eric

Date: 11/7/2018

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 5/6/2019

<b>COA Type</b>	<b>Description</b>
	<p>If there has not been a reported Bradenhead test within 60 days of plugging this well, prior to starting plugging operations, a Bradenhead test shall be performed.</p> <p>1) If, before opening the Bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>3) If sampling is required contact COGCC engineering for an confirmation of plugging requirements prior to placing any plugs.</p> <p>Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions.</p> <p>The Form 17 shall be submitted within 10 days of the test.</p>
	<p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) Prior to placing the 525' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders.</p> <p>3) After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 203' or shallower and provide 10 sack plug at surface.</p> <p>4) Leave at least 100' of cement in the wellbore for each plug.</p> <p>5) Properly abandon on-location flowlines as per Rule 1105. File electronic Form 42 once abandonment is 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.</p>
	<p>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>

**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
401792143	FORM 6 INTENT SUBMITTED
401792191	WELLBORE DIAGRAM
401792193	WELLBORE DIAGRAM

Total Attach: 3 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Engineer	Deepest Water Well within 1 Mile – 325' SB5 Base of Fox Hills - N/A	11/07/2018
Well File Verification	Pass	10/18/2018
Permit	Pass	10/16/2018

Total: 3 comment(s)