

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 05-123-14471-00 Well Number: 2 28A
 Well Name: CHURCHILL
 Location: QtrQtr: SWNW Section: 28 Township: 5N Range: 64W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: 69074
 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: 40.371944 Longitude: -104.561667
 GPS Data:
 Date of Measurement: 05/12/2010 PDOP Reading: 2.4 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: _____
 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	6833	6853	03/04/2019	B PLUG CEMENT TOP	6500
NIOBRARA	6650	6741	03/04/2019	B PLUG CEMENT TOP	6500

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	324	170	324	0	VISU
1ST	7+7/8	3+1/2	9.3	6,943	225	6,943	6,147	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6500 with 2 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 210 sks cmt from 4758 ft. to 4108 ft. Plug Type: STUB PLUG Plug Tagged:
Set 130 sks cmt from 1500 ft. to 1183 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 260 sks cmt from 525 ft. to 0 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 _____ 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: 4490 ft. 3+1/2 inch casing Plugging Date: 03/04/2019
of _____

*Wireline Contractor: Ranger 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:

Churchill 2 28A (05-123-14471)/Plugging Procedure
Producing Formation: Niobrara/Codell: 6650'-6853'
Upper Pierre Aquifer: 328'-1387'
TD: 6950' PBD: 6881'
Surface Casing: 8 5/8" 24# @ 324' w/ 170 sxs
Production Casing: 3 1/2" 9.3# @ 6943' w/ 225 sxs cmt (TOC @ 6147' - CBL).

Procedure:

1. RU wireline company.
2. TIH with CIBP. Set BP at 6500'. Top with 2 sxs 15.8#/gal CI G cement.
3. TIH with casing cutter. Cut 3 1/2" casing at 4490'. Pull cut casing.
4. TIH with tubing to 4758'. RU cementing company. Mix and pump 210 sxs 15.8#/gal CI G cement down tubing (for Sussex coverage). TOC at 4108'.
5. TIH with tubing to 1500'. Mix and pump 130 sxs 14.8#/gal Type III cement down tubing (Pierre aquifer coverage from 1615'-1200'). TOC at 1183'.
6. Pick up tubing to 525'. Mix and pump 260 sxs 14.8#/gal Type III cement down tubing. Cement circulate to surface.
7. 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: _____

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

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401995090	CEMENT JOB SUMMARY
401995095	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

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

Total: 0 comment(s)