

FORM
6Rev
05/18

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

401191669

Date Received:

01/25/2017

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: Kelsi Welch

Name of Operator: PDC ENERGY INC

Phone: (303) 831-3974

Address: 1775 SHERMAN STREET - STE 3000

Fax:

City: DENVER State: CO Zip: 80203

Email: kelsi.welch@pdce.com

For "Intent" 24 hour notice required,

Name: Tel:

COGCC contact:

Email:

API Number 05-123-13083-00

Well Name: LOUIS KLEIN

Well Number: 19-1

Location: QtrQtr: SENE Section: 19 Township: 5N Range: 64W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 69055

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: 40.386358

Longitude: -104.585801

GPS Data:

Date of Measurement: 04/22/2010

PDOP Reading: 2.4

GPS Instrument Operator's Name: Chuck Kraft

Reason for Abandonment:

☐ Dry☐ Production Sub-economic☐ Mechanical Problems☐ OtherCasing 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
NIOBRARA	6666	6772	10/28/2016	B PLUG CEMENT TOP	6610
CODELL	6870	6880	10/28/2016	BRIDGE PLUG	6834

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	307	217	307	0	VISU
1ST	7+7/8	4+1/2	15.1	6,981	230	6,981	6,030	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6834 with 2 sacks cmt on top. CIBP #2: Depth 6610 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 54 sks cmt from 3328 ft. to 2611 ft. Plug Type: CASING Plug Tagged: ☒

Set 293 sks cmt from 610 ft. to 118 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 10 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: 506 ft. of 4+1/2 inch casing Plugging Date: 12/27/2016

*Wireline Contractor: Cased Hole

*Cementing Contractor: Ranger

Type of Cement and Additives Used: 15.8#/gal CI G cement

Flowline/Pipeline has been abandoned per Rule 1105 ☒ Yes ☐ No

*ATTACH JOB SUMMARY

Technical Detail/Comments:

Louis Klein 19-1 (05-123-13083)/Plugging Procedure (Subsequent)

Producing Formation: Codell 6870'-6880' Niobrara 6666'-6772'
Existing CIBP: at 6822' and at 6610' with 2 sxs cmt.

TD: 6990' PBD: Unknown
Surface Casing: 8 5/8" 24# @ 307' w/ 217 sxs
Production Casing: 4 1/2" 15.1# @ 6981' w/ 230 sxs cmt (TOC 6030 - CBL)
Tubing: 2 3/8" tubing set at 6169'. (10/31/2016)

Holes found in casing from 2667'-3236'.

Proposed Procedure:

1. MIRU RU pulling unit
2. Re-set 2 3/8" tubing at 3328'. Mix and pump 54 sxs of 15.8#/gal CI G cement down tubing to cover holes. Tagged plug at 2611'.
3. TIH with casing cutter. Cut 4 1/2" casing at 506'. Pull cut casing.
4. TIH with tubing to 610'. Mix and pump 293 sxs of 15.8#/gal CI G cement down tubing to surface.
5. Topped off surface with 10 sxs of 15.8#/gal CI G cement
6. 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: Kelsi Welch

Title: Production Tech Date: 1/25/2017 Email: kelsi.welch@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: Jacobson, Eric

Date: 6/29/2018

CONDITIONS OF APPROVAL, IF ANY:

COA Type **Description**

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Attachment Check List

Att Doc Num **Name**

2137293	CEMENT & WIRELINE SUMMARY
401191669	FORM 6 SUBSEQUENT SUBMITTED
401191698	CEMENT JOB SUMMARY
401191699	WELLBORE DIAGRAM
401193351	WIRELINE JOB SUMMARY

Total Attach: 5 Files

General Comments

User Group **Comment** **Comment Date**

Engineer	Paperwork Submitted	06/29/2018
Engineering Tech	Plug tagged at 2611'	05/01/2018
Engineer	Requested additional cement and wireline summary information.	03/23/2018

Total: 3 comment(s)