

Document Number:
402191763

Date Received:
09/27/2019

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: _____ Tel: _____

COGCC contact: Email: _____

API Number 05-123-22228-00

Well Name: WELLS RANCH Well Number: 41-3

Location: QtrQtr: NENE Section: 3 Township: 5N Range: 63W 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: 40.433830 Longitude: -104.416030

GPS Data:
Date of Measurement: 10/20/2010 PDOP Reading: 1.7 GPS Instrument Operator's Name: Steve Cure

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
NIOBRARA-CODELL	6406	6670	08/30/2019	B PLUG CEMENT TOP	6356

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	409	225	409	0	VISU
1ST	7+7/8	4+1/2	10.5	6,865	470	6,865	2,876	CBL
S.C. 1.1				2,876	285	2,876	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6356 with 2 sacks cmt on top. CIBP #2: Depth 3700 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 35 sks cmt from 1800 ft. to 1284 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 _____ 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 50 sacks half in. half out surface casing from 609 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: 09/03/2019
of _____
*Wireline Contractor: C&J Energy Services *Cementing Contractor: C&J Energy Services
Type of Cement and Additives Used: Type III 14.8 PPG Portland Cement
Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Wells Ranch 41-3 (05-123-22228) Plugging Procedure
Producing Formation: Niobrara/Codell: 6406'-6670'
Upper Pierre Aquifer: 510'-1560'
TD: 6875' PBTD: 6825.8'
Surface Casing: 8 5/8" 24# @ 409' w/ 225 sxs
Production Casing: 4 1/2" 10.5# @ 6865' w/ 500 sxs cmt (TOC @ 2876' - CBL).
Annular Fill @ 2876' w/ 433 sxs cmt (TOC @ surface - CBL).

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6356'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set BP at 3700'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH in tubing to 1800'. RU cementing company. Mix and pump 35 sxs 14.8#/gal Type III cement down tubing (Pierre coverage from 1800'-1300'). TOC at 1284'.
6. Pick up tubing to 609'. Mix and pump 50 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: 9/27/2019 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.

CONDITIONS OF APPROVAL, IF ANY:

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

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402191763	FORM 6 SUBSEQUENT SUBMITTED
402191772	CEMENT JOB SUMMARY
402191773	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

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

Total: 0 comment(s)