

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:

401725900

Date Received:

08/06/2018

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: Jenifer Hakkarinen

Name of Operator: PDC ENERGY INC

Phone: (303) 8605800

Address: 1775 SHERMAN STREET - STE 3000

Fax:

City: DENVER State: CO Zip: 80203

Email: Jenifer.Hakkarinen@pdce.com

For "Intent" 24 hour notice required,

Name: Evins, Bret

Tel: (970) 420-6699

COGCC contact:

Email: bret.evins@state.co.us

API Number 05-123-20940-00

Well Name: WELLS RANCH

Well Number: 33-10

Location: QtrQtr: NWSE Section: 10 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: 40.411920

Longitude: -104.420640

GPS Data:

Date of Measurement: 11/01/2007

PDOP Reading: 2.5

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: 1700

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	6617	6625			
J SAND	7076	7088	01/24/2003	BRIDGE PLUG	6920

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	399	280	399	0	VISU
1ST	7+7/8	4+1/2	10.5	7,287	190	7,287	6,049	CBL
S.C. 1.1				7,287	230	6,049	3,490	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6567 with 2 sacks cmt on top. CIBP #2: Depth 6299 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 <u>255</u> sks cmt from <u>1815</u> ft. to <u>1400</u> ft.	Plug Type: <u>STUB PLUG</u>	Plug Tagged: <input type="checkbox"/>
Set <u>360</u> sks cmt from <u>599</u> ft. to <u>0</u> ft.	Plug Type: <u>OPEN HOLE</u>	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

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: _____ 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:

Wells Ranch 33-10 (05-123-20940)/Plugging Procedure (Intent)

Producing Formation: J Sand: 7076'-7088' Codell: 6617'-6625'

Upper Pierre Aquifer: 450'-1510'

TD: 7327' PBTD: 6780'

Surface Casing: 8 5/8" 24# @ 399' w/ 280 sxs

Production Casing: 4 1/2" 10.5# @ 7287' w/ 420 sxs cmt (TOC @ 3490' - CBL).

Existing CIBP @ 6920' (1/24/2003)

Tubing: 2 3/8" tubing set @ 6609' (6/5/2003).

Proposed Procedure:

1. Tag fill at 6780' and cleanout to existing CIBP @ 6920'.
2. MIRU pulling unit. Pull 2 3/8" tubing.
3. RU wireline company.
4. At 6920' +, dumpbail 2 sxs cement on existing CIBP.
5. Run CBL 4000' - surface' to confirm TOC @ 3490. If not at 3490' contact engineer to proceed.
6. TIH with CIBP. Set BP at 6567'. Top with 2 sxs 15.8#/gal CI G cement.
7. TIH with CIBP. Set BP at 6299'. Top with 2 sxs 15.8#/gal CI G cement.
8. TIH with casing cutter. Cut 4 1/2" casing at 1700'. Pull cut casing.
9. TIH with tubing to 1815'. RU cementing company. Mix and pump 255 sxs 15.8#/gal CI G cement w/ 2% CaCl down tubing (Pierre coverage from 1815'-1400').
10. Pick up tubing to 599'. Mix and pump 360 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
11. 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: Jenifer Hakkarinen

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: JENKINS, STEVE

Date: 9/6/2018

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 3/5/2019

COA Type**Description**

	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Prior to placing the 599' 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. 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 349' or shallower and provide 10 sx plug at the surface. 4) Leave at least 100' of cement in the wellbore for each plug. 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.
	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.
	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. 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. 3) If sampling is required contact COGCC engineering for an confirmation of plugging requirements prior to placing any plugs. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. The Form 17 shall be submitted within 10 days of the test.

Attachment Check List**Att Doc Num****Name**

401725900	FORM 6 INTENT SUBMITTED
401725913	WELLBORE DIAGRAM
401725918	WELLBORE DIAGRAM
401725921	GYRO SURVEY

Total Attach: 4 Files

General Comments**User Group****Comment****Comment Date**

Engineer	1) Deepest Water Well within 1 mile = 50'. 2) Fox Hills Bottom- N/A, per SB5.	09/06/2018
Well File Verification	Pass	08/09/2018
Permit	Passed permit review	08/08/2018

Total: 3 comment(s)