

FORM
6Rev
12/05

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:

401126976

Date Received:

12/22/2016

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: Gomez, Jason

Tel: (970) 573-1277

COGCC contact:

Email: jason.gomez@state.co.us

API Number 05-123-24268-00

Well Name: HARVESTER

Well Number: 42-15

Location: QtrQtr: SENE Section: 15 Township: 6N Range: 66W Meridian: 6

County: WELD

Federal, Indian or State Lease Number:

Field Name: BRACEWELL

Field Number: 7487

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.490640

Longitude: -104.757110

GPS Data:

Date of Measurement: 12/13/2006

PDOP Reading: 1.8

GPS Instrument Operator's Name: H.L. TRACEY

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
CODELL	7241	7251			

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	455	320	455	0	VISU
1ST	7+7/8	4+1/2	10.5	7,382	833	7,382	480	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7191 with 2 sacks cmt on top. CIBP #2: Depth 6882 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 _____ 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: ☐
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

Perforate and squeeze at 655 ft. with 170 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. of _____ inch casing Plugging Date: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1103 ☐ Yes ☐ No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Harvester 42-15 (05-123-24268)/Plugging Procedure (Intent)
Producing Formation: Codell 7241'-7251'
TD: 7412' PBDT: 7371'
Surface Casing: 8 5/8" 24# @ 455' w/ 320 sxs
Production Casing: 4 1/2" 10.5# @ 7382' w/ 833 sks cmt (TOC 480' - CBL)

Tubing: 2 3/8" tubing set at 7226'. (9/30/2014)

Proposed Procedure:

1. MIRU RU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set CIBP at 7191'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set CIBP at 6882'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with perforating gun. Perforate 4 1/2" casing at 470'.
6. Attempt to establish circulation down 4 1/2" casing and up production casing annulus. (Note: Top of production casing cement could be at surface.)
7. If circulation is establish, pump 170 sxs of 15.8#/gal CI G cement down 4 1/2" casing. Cement should circulate to surface.
8. If circulation cannot be established, TIH with tubing to 600'. Mix and pump 60 sxs of 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: Jenifer Hakkarinen

Title: Reg Tech Date: 12/22/2016 Email: Jenifer.Hakkarinen@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: HICKEY, MIKE

Date: 1/5/2017

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 7/4/2017

<u>COA Type</u>	<u>Description</u>
	1)Note change in plugging procedure; 470' plug has been moved down to 655'. Adjust cement volume accordingly. 2)Prior to starting plugging operations a bradenhead test shall be performed. If the beginning pressure is greater than 25 psi, contact COGCC Engineer for sampling requirements. If pressure remains at the conclusion of the test, or if any liquids were present contact COGCC Engineer for sampling requirements. The Form 17 shall be submitted within 10 days of the test. 3)Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 4)Properly abandon flowlines. Once flowlines are properly abandoned, file electronic form 42. 5)For 650' plug: pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours and tag plug – top of plug must be not deeper than 350' and provide minimum 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401126976	FORM 6 INTENT SUBMITTED
401126980	WELLBORE DIAGRAM
401126981	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Moved 470' plug down to 655 with the operator's consent to be 50 feet below Willow West Properties water well at 605'.	01/05/2017
Public Room	Document verification complete 10/14/16	10/14/2016

Total: 2 comment(s)