

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:

401125122

Date Received:

10/06/2016

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: Montoya, John

Tel: (970) 397-4124

COGCC contact:

Email: john.montoya@state.co.us

API Number 05-123-20149-00

Well Name: WASTE SERVICES

Well Number: 21-35

Location: QtrQtr: NENW Section: 35 Township: 3N Range: 64W 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: 40.187670

Longitude: -104.520280

GPS Data:

Date of Measurement: 10/11/2010

PDOP Reading: 1.7

GPS Instrument Operator's Name: Steve Cure

Reason for Abandonment:

☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes☐ No

Estimated Depth: 1030

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	6982	6988			
J SAND	7449	7471	11/13/2002	BRIDGE PLUG	7370

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	829	580	829	0	VISU
1ST	7+7/8	4+1/2	10.5	7,610	386	7,610	4,010	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6932 with 2 sacks cmt on top. CIBP #2: Depth 6620 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 380 sks cmt from 1080 ft. to 0 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: ☐
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: _____ 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:

Plugging Procedure (Intent)

Producing Formation: Codell 6982'-6988'

Abandoned Formation: J Sand 7449'-7471'

TD: 7651' PBDT: 7566'

Surface Casing: 8 5/8" 24# @ 829' w/ 580 sks

Production Casing: 4 1/2" 10.5# @ 7610' w/ 386 sks cmt (TOC 4010' - CBL)

Existing CIBP: Set at 7370' with no cement on top.

Tubing: 2 3/8" tubing set at 6971'. (5/22/2003)

Proposed Procedure:

1. MIRU RU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company. Run Gyro Survey from 7100' to surface.
3. TIH with dump bailer and spot 2 sks 15.8#/gal CI G cement on top of existing CIBP at 7370'
4. TIH with CIBP. Set CIBP at 6932'. Top with 2 sks 15.8#/gal CI G cement.
5. TIH with CIBP. Set CIBP at 6620'. Top with 2 sks 15.8#/gal CI G cement.
6. TIH with casing cutter. Cut 4 1/2" casing at 1030'. Recover 4 1/2" casing.
7. TIH with tubing to 1080'. Mix and pump 380 sks of 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
8. 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: 10/6/2016 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: McCoy, Diane

Date: 10/14/2016

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 4/13/2017

<u>COA Type</u>	<u>Description</u>
	<p>1) Prior to starting plugging operations, a bradenhead test shall be performed. If any pressure remains at the conclusion of the test or any liquids were present contact COGCC Engineer for sampling requirements. The Form 17 shall be submitted within 10 days of the test.</p> <p>2) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</p> <p>4) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</p> <p>5) Tag existing CIBP at 7370' and add 2 sacks of cement on top. Plug listed as stub plug is also surface casing shoe plug. If this plug is not circulated to surface then tag plug – must be 729' or shallower and provide 10 sack plug at the surface. Leave at least 100' cement in the wellbore for each plug.</p>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401125122	FORM 6 INTENT SUBMITTED
401125138	WELLBORE DIAGRAM
401125139	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Public Room	Document verification complete 04/29/15	10/11/2016 1:56:35 PM
Permit	Update form 7 reporting with JSand TA from 12/02 to current before subsequent form 6 is approved.	10/6/2016 4:47:55 PM

Total: 2 comment(s)