

FORM
6Rev
12/05State 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:

401575995

Date Received:

03/15/2018

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: Gomez, Jason

Tel: (970) 573-1277

COGCC contact:

Email: jason.gomez@state.co.us

API Number 05-123-11335-00

Well Name: TWO E RANCH

Well Number: 1-23

Location: QtrQtr: SESE Section: 23 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: 40.206610

Longitude: -104.512310

GPS Data:

Date of Measurement: 10/11/2010

PDOP Reading: 1.5

GPS Instrument Operator's Name: Steve Cure

Reason for Abandonment:

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

Estimated Depth: 1750

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
J SAND	7359	7392			

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	414	340	414	0	VISU
1ST	7+7/8	4+1/2	11.6	7,419	300	7,419	6,270	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7309 with 2 sacks cmt on top. CIPB #2: Depth 6567 with 2 sacks cmt on top.
 CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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>215</u> sks cmt from <u>1875</u> ft. to <u>1500</u> ft.	Plug Type: <u>STUB PLUG</u>	Plug Tagged: <input checked="" 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"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

Perforate and squeeze at 4550 ft. with 210 sacks. Leave at least 100 ft. in casing 4165 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 340 sacks half in. half out surface casing from 670 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 Plugging Date: _____
 of _____

*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:

Two E Ranch 1-23 (05-123-11335)/Plugging Procedure (Intent)

Producing Formation: J-Sand: 7359'-7392'

Upper Pierre Aquifer: 672'-1630'

TD: 7420' PBD: 7400'

Surface Casing: 8 5/8" 24# @ 414' w/ 340 sxs

Production Casing: 4 1/2" 11.6# @ 7419' w/ 300 sxs cmt (TOC @ 6270' – Well History).

Tubing: 2 3/8" tubing set @ 7372' (12/10/1990).

Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing (tubing length is estimated).
2. RU wireline company. Run CBL from 6900' to surface to determine TOC.
3. TIH with CIBP. Set BP at 7309'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set BP at 6567'. Top with 2 sxs 15.8#/gal CI G cement.
5. Shoot lower squeeze holes at 4550'. Shoot upper squeeze holes at 4150'.
6. Set CICR at 4165'. RU cementing company. Sting in and pump 210 sxs 15.8#/gal CI G cement. Sting out and pump 10 sxs on top of CICR.
7. TIH with casing cutter. Cut 4 1/2" casing at 1750'. Pull cut casing.
8. TIH with tubing to 1875'. Mix and pump 215 sxs 15.8#/gal CI G cement w/ 2% CaCl down tubing (cement coverage from 1500'-1875').
9. Pick up tubing to 650'. Mix and pump 340 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
10. 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: McCoy, Diane

Date: 3/22/2018

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 9/21/2018

COA Type

Description

	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Properly abandon all flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 3) 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. 4) No CBL on file with COGCC. Verify existing cement with a CBL prior to plugging and submit CBL with Form 6 Subsequent Report of Abandonment. If cement is not present on CBL as outlined on this Form contact COGCC engineer for an update to plugging orders. 5) If surface casing shoe plug is not circulated to surface then tag plug – must be 314' or shallower and provide a 10 sack plug at the surface.
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Attachment Check List

Att Doc Num

Name

401575995	FORM 6 INTENT SUBMITTED
401576007	WELLBORE DIAGRAM
401576008	WELLBORE DIAGRAM
401576010	GYRO SURVEY

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

Engineer	Production records indicate this well has been SI since June 2016. All shut-in wells must pass a mechanical integrity test or be plugged and abandoned within two years of the initial shut-in date. Bradenhead test report dated 03/17/2018, reported zero pressure. Removed plug listed as "open hole" and input plug as half in-half out of surface casing as this is the surface casing shoe plug. Changed depth to 670' to provide 50' below nearby water well.	03/22/2018
Permit	•Permitting Review Complete. •Corrected deviation indicator per attached gyro survey Doc#401576010.	03/21/2018
Public Room	Pass	03/16/2018

Total: 3 comment(s)