

FORM
6Rev
05/18State 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:

402216485

Date Received:

10/21/2019

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: Evins, Bret

Tel: (970) 420-6699

COGCC contact:

Email: bret.evins@state.co.us

API Number 05-123-23173-00

Well Name: WELLS RANCH

Well Number: 13-2

Location: QtrQtr: NWSW Section: 2 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: 40.426720

Longitude: -104.411310

GPS Data:

Date of Measurement: 10/16/2006

PDOP Reading: 2.7

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

Reason for Abandonment:

☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ Other

Casing to be pulled:

☒ Yes☐ No

Estimated Depth: 1650

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	6640	6648			

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	285	409	0	VISU
1ST	7+7/8	4+1/2	10.5	6,842	425	6,842	2,670	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6590 with 2 sacks cmt on top. CIBP #2: Depth 6320 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 93 sks cmt from 1700 ft. to 1350 ft. Plug Type: STUB PLUG Plug Tagged: ☐
Set 186 sks cmt from 609 ft. to 0 ft. Plug Type: OPEN HOLE 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. _____ inch casing Cut and Cap 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 13-2 (05-123-231730000) Proposed Plugging Procedure
Existing Perforations: Codell: 6640' – 6648'

Top of Niobrara: 6370'
Upper Pierre Aquifer: 850' – 1550'
TD: 6853' PBTD: 6828'
Surface Casing: 8-5/8" 24# set @ 409' w/ 285 sxs cmt
Production Casing: 4-1/2" 10.5# set @ 6842' w/ 425 sxs cmt (CBL TOC @ 2670')

Existing Tubing: Unknown Tubing Information

Proposed Procedure:

1. MIRU WO equipment.
2. Load and kill well.
3. POOH w/ tbq.
4. PU CIBP.
5. RIH and set @ 6590' (50' above Codell perms).
6. PU dump bailer w/ 2 sxs cmt.
7. RIH and spot cmt on top of CIBP from 6563' – 6589'.
8. POOH w/ bailer.
9. PU CIBP.
10. RIH and set @ 6320' (50' above Nio top)
11. PU dump bailer w/ 2 sxs cmt.
12. RIH and spot cmt on top of CIBP from 6293' – 6319'
13. POOH
14. WOC.
15. Pressure test 4.5" production csg. Hunt holes if failed. Report back.
16. If pass PU csg cutter.
17. RIH and cut 4.5" csg @ 1650'.
18. POOH w/ cutter.
19. Spear into csg and pull cut section.
20. PU work string.
21. RIH and spot a 93 sx balance plug from 1700' – 1350' (50' into csg stub and across Pierre Base).
22. TOOH and spot a 186 sx balance plug from 609' – surface (covering Surface Shoe)
23. POOH and WOC.
24. Top off remaining cmt.
25. Cut, cap, and fill.
26. RDMO WO equipment.

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: 10/21/2019 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.

COGCC Approved: JENKINS, STEVE Date: 11/8/2019

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 5/7/2020

COA Type	Description
	<p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) Prior to placing the 609' 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.</p> <p>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 359' or shallower and provide 10 sx plug at the surface.</p> <p>4) Leave at least 100' of cement in the wellbore for each plug.</p> <p>5) Properly abandon flowlines per Rule 1105. File electronic Form 42 once abandonment of on-location flowlines 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.</p> <p>6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</p> <p>7) After placing the shallowest hydrocarbon isolating plug (1700'), operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations.</p>
	Operator shall implement measures to control venting, to protect health and safety, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.
	<p>Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations.</p> <p>1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.</p>

Attachment Check List

Att Doc Num	Name
402216485	FORM 6 INTENT SUBMITTED
402216508	WELLBORE DIAGRAM
402216509	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	"Well file verification not completed prior to approval of NOIA".	11/08/2019
Engineer	<p>1) Deepest Water Well within 1 mile = 400'.</p> <p>2) Fox Hills Bottom- N/A, per SB5.</p>	11/08/2019
Permit	<ul style="list-style-type: none"> •Verified SHL lat./long •Verified perfed intervals via Doc. 1731326 •Verified production reporting 	10/28/2019

Total: 3 comment(s)