

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



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Document Number:

401966604

Date Received:

03/08/2019

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 05-123-19433-00

Well Name: SLW RANCH

Well Number: 42-7

Location: QtrQtr: SENE Section: 7 Township: 5N Range: 63W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 59480

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: 40.415830

Longitude: -104.472610

GPS Data:

Date of Measurement: 06/03/2010

PDOP Reading: 2.9

GPS Instrument Operator's Name: Holly L. Tracy

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

Estimated Depth: 1600

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
NIOBRARA-CODELL	6473	6742			

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	319	225	319	0	VISU
1ST	7+7/8	3+1/2	7.7	6,956	130	6,956	6,032	CBL
S.C. 1.1				3,700	160	3,700	3,300	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6423 with 2 sacks cmt on top. CIBP #2: Depth _____ with _____ 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 253 sks cmt from 1715 ft. to 1300 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 335 sacks half in. half out surface casing from 519 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 1105 ☐ Yes ☐ No *ATTACH JOB SUMMARY

Technical Detail/Comments:

SLW Ranch 42-7 (05-123-19433)/Plugging Procedure (Intent)
Producing Formation: Niobrara/Codell: 6473'-6742'
Upper Pierre Aquifer: 424'-1470'
TD: 6977' PBTD: 6930'
Surface Casing: 8 5/8" 24# @ 319' w/ 225 sxs
Production Casing: 3 1/2" 7.7# @ 6956' w/ 130 sxs cmt (TOC @ 6032' - CBL).
3700' w/ 160 sxs cmt (TOC @ 3300' - Drilling completion report).

Tubing: 1 1/2" tubing set @ 6713' (8/22/2005).

Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6423'. Top with 2 sxs 15.8#/gal CI G cement.
4. Run CBL from 6300' - surface in order to confirm TOC and verify if there is any cement at 3700'-3300'.
5. TIH with casing cutter. Cut 3 1/2" casing at 1600'. Pull cut casing.
6. TIH with tubing to 1715'. Mix and pump 253 sxs 15.8#/gal CI G cement w/ 2% CaCl down tubing (Pierre coverage from 1715'-1300').
7. Pick up tubing to 519'. Mix and pump 335 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface. TOOH with tubing.
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: Valerie Danson

Title: Reg Tech Date: 3/8/2019 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: Wolfe, Stephen

Date: 5/6/2019

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 11/5/2019

COA Type	Description
	<p>Venting</p> <p>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.</p>
	<p>Bradenhead Testing</p> <ul style="list-style-type: none"> • Prior to the start of plugging operations, a bradenhead test shall be performed and reported if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations. • If any of the following conditions exist then sampling of all fluids is required and sampling methods shall comply with Operator Guidance – Bradenhead Testing and Reporting Instructions, Appendix A: Liquid and Gas Sampling as found on the COGCC website, cogcc.state.co.us. <ol style="list-style-type: none"> 1) The initial pressure measurement on the bradenhead is greater than 25 psi, prior to blowing down any liquid or gas from the bradenhead valve, or 2) Pressure remains at the conclusion of the test, or 3) Any liquids are present anytime during the test. If so, then stop the test as soon as liquids are present and sample before resuming the test. • Form 17 Bradenhead Test Report shall be submitted within 10 days of the test. • 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. Submit via a Form 43 to upload the laboratory results to the COGCC Environmental Database. Form 43 instructions are on COGCC's website under Regulation => Forms => Form 43 COGCC Environmental Database.
	<p>Plugging</p> <ul style="list-style-type: none"> • Provide 48 hour notice of plugging MIRU via electronic Form 42. • Plugs and squeezes will be placed as stated in the Plugging Procedure section of the approved NOIA unless revised by COA or prior approval from COGCC is obtained. • COGCC does not have a CBL on file that demonstrates cement coverage. Operator will confirm cement coverage by CBL and submit with Form 6 SRA. If cement coverage is not as represented on the approved NOIA, operator will contact COGCC Area Engineer for revised plugging orders before proceeding with plugging operations. • If there is Bradenhead pressure reported on the pre-plugging Form 17 operator will contact COGCC Area Engineer for revised plugging orders prior to proceeding with plugging operations. • Tag 1715-1300' plug if circulation is not maintained while pumping and displacing plug to depth, 100' minimum required. • Check for fluid migration or shut-in pressure on the well prior to pumping any plug (open hole, annular or casing) that isolates deepest aquifer or the surface casing shoe (whichever is deeper). Contact COGCC Area Engineer for revised plugging orders if well is not static at this time prior to continuing with plugging operations. • Tag required if the shoe plug, or combined stub/shoe plug, is not circulated to the surface. Shoe plug shall be placed as specified herein and the top of cement must be a minimum 50' into the shoe, or 50' above the stub (if not cut below the shoe), whichever is shallower. • Place a 50' plug (minimum) at the surface, both inside the inner most casing and in all annular spaces. All other cement plugs, without mechanical isolation, shall have at least 100' of cement left in the casing. Confirm cement to surface in all strings during cut and cap. • Properly abandon flowlines as per Rule 1105. File electronic Form 42 once abandonment 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. • Confirm COAs have been met on the Form 6 SRA.
	<p>COA: Submit Operator's Monthly Production Reports (Form 7) required for compliance with Rule 309 within 30 days to correct inaccurate data.</p>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401966604	FORM 6 INTENT SUBMITTED
401966605	WELLBORE DIAGRAM
401966606	WELLBORE DIAGRAM
401966607	GYRO SURVEY

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	SB5NA SB5 + 50' = Missing WW + Elev diff + 50' = 420 + 4664 - 4785 + 50 = 349' Logs 11/17/97 Base UPA 1470'	05/06/2019
Well File Verification	Pass	03/15/2019
Permit	Ready to pass form. Confirmed as drilled lat/long is accurate. Final Form 5/Drilling Completion Report on file as doc# 163296. Niobrara-Codell formation completion confirmed via Form 5A/Completed Interval Report(s): doc# 163294 & 1737714. Confirmed Form 7 production reporting requires correction.	03/11/2019

Total: 3 comment(s)