FORM 6 Rev 11/20

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: 403140191

Date Received: 08/18/2022

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, COGCC contact: Name: Evins, Bret Tel: (970) 420-6699 Email: bret.evins@state.co.us

Type of Well Abandonment Report: [X] Notice of Intent to Abandon [ ] Subsequent Report of Abandonment

API Number 05-123-22572-00

Well Name: PETTINGER Well Number: 44-2

Location: QtrQtr: SESE Section: 2 Township: 6N Range: 64W Meridian: 6

County: WELD Federal, Indian or State Lease Number:

Field Name: WATTENBERG Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.509360 Longitude: -104.510830

GPS Data: GPS Quality Value: 3.0 Type of GPS Quality Value: PDOP Date of Measurement: 11/21/2006

Reason for Abandonment: [ ] Dry [X] Production Sub-economic [ ] Mechanical Problems

[ ] Other

Casing to be pulled: [X] Yes [ ] No Estimated Depth: 2500

Fish in Hole: [ ] Yes [X] No If yes, explain details below

Wellbore has Uncemented Casing leaks: [ ] Yes [X] 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	6948	6956			

Total: 1 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	J55	24	0	841	590	841	0	VISU
1ST	7+7/8	4+1/2	J55	10.5	0	7136	170	7136	6180	CBL
S.C. 1.1						7136	290	6180	2892	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6898 with 2 sacks cmt on top. CIBP #2: Depth 6600 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 100 sks cmt from 2550 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged: ☐

Set 100 sks cmt from 1660 ft. to 1460 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 357 sacks half in. half out surface casing from 1041 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. of _____ inch casing

Surface Plug Setting Date: _____ Cut and Cap Date: _____ Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

Technical Detail/Comments:

Pettinger 44-2 (05-123-22572)/Plugging Procedure (Intent)
Producing Formation: Codell: 6948'-6956'
Upper Pierre Aquifer: 450'-1560'
TD: 7140' PBTD: 7121' (1/23/06)
Surface Casing: 8 5/8" 24# @ 841' w/ 590 sxs cmt
Production Casing: 4 1/2" 10.5# @ 7136' w/ 460 sxs cmt (TOC @ 2892' - CBL)

Tubing: 2 3/8" tubing set @ 6938' (1/23/06)
Proposed Procedure:
1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6898'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of Codell perfs @ 6948')
4. TIH with CIBP. Set BP at 6600'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of Niobrara @ 6650')
5. TIH with casing cutter. Cut 4 ½" casing @ 2500'. Pull cut casing.
6. TIH with tubing to 2550'. RU cementing company. Mix and pump 100 sxs 15.8#/gal Cl G cement down tubing. (Stub plug from 2550'-2300')
7. Wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or fluid migration, contact engineering before continuing operations.
8. TIH with tubing to 1660'. Mix and pump 100 sxs 15.8#/gal Cl G cement down tubing. (Pierre coverage from 1660'-1460')
9. Pick up with tubing to 1041'. Mix and pump 357 sxs 15.8#/gal Cl G cement down tubing. Cement should circulate to surface.
10. Well casing cut and capped per COGCC guidelines at a depth as not to interfere with soil cultivation.

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 Analyst Date: 8/18/2022 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: 8/31/2022

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 2/27/2023

Condition of Approval

COA Type	Description
	Due to close proximity to Residential Building Units: prior to commencing operations, at a minimum, the operator will provide an informational sheet to the owners/occupants of BUs that are nearby and adjacent to the parcel on which the well is located. The sheet will include the operator's contact information and the nature, timing, and expected duration of the PA operations.
	FLOWLINE AND SITE CLOSURE Consistent with Rule 911.a, a Form 27 must be approved prior to cut and cap, conducting flowline abandonment, or removing production equipment. Allow 30 days for Director review of the Form 27; include the Form 27 document number on the Form 44 for offsite flowline abandonment (if applicable) and on the Form 6 Subsequent. Properly abandon flowlines per Rule 1105. If flowlines will be abandoned in place, include with the Form 27: pressure test results conducted in the prior 12 months as well as identification of any document numbers for a COGCC Spill/Release Report, Form 19, associated with the abandoned line.
	For Wells with known Bradenhead pressures: 1) Provide 2 business day notice of plugging MIRU via electronic Form 42, and provide 48 hours Notice of Plugging Operations, prior to mobilizing for plugging operations via electronic Form 42. These are 2 separate notifications, required by Rules 408.e and 408.I. 2) After placing the shallowest hydrocarbon isolating plug (2550'), operator must wait a sufficient time to confirm static conditions. 3) After placing plug at 1660’ assure that all fluid migration has been eliminated by monitoring the well for a minimum of 8 hours before proceeding to the next plug. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations. 4) Prior to placing the 1041’ 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. 5) 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 791’ or shallower and provide at least 10 sx plug at the surface. 6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.
	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.
	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. 1) If, before opening the Bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required. 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.
5 COAs	

Attachment List

Att Doc Num	Name
403140191	FORM 6 INTENT SUBMITTED
403140195	WELLBORE DIAGRAM
403140197	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
OGLA	OGLA review is complete.	08/30/2022
OGLA	Well is in a CPW mapped Pronghorn Winter Concentration Area High Priority Habitat. Although plugging and abandonment operations with heavy equipment will be allowed, the operator is strongly encouraged to avoid them from January 1 through April 30.	08/30/2022
Engineer	1) Deepest Water Well within 1 mile = 780'. 2) Fox Hills Bottom- N/A, per SB5.	08/19/2022
Permit	Verified as drilled lat/long Verified completed intervals (Doc 394819) Verified production reporting Review complete and task passed	08/18/2022

Total: 4 comment(s)