FORM 6 Rev 02/20

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: 402339179

Date Received: 03/11/2020

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: Peterson, Tom Tel: (970) 370-1281 Email: tom.peterson@state.co.us

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

API Number 05-123-13652-00

Well Name: JOHNSTON Well Number: 1

Location: QtrQtr: SESW Section: 24 Township: 4N Range: 67W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 68893

Field Name: WATTENBERG Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.291719 Longitude: -104.840984

GPS Data: GPS Quality Value: 2.2 Type of GPS Quality Value: Date of Measurement: 07/01/2010

GPS Instrument Operator's Name: Shantell Kling

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
NIOBRARA-CODELL	6938	7270			

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	255	200	255	0	VISU
1ST	7+7/8	4+1/2	11.6	7,366	200	7,366	6,380	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6888 with 2 sacks cmt on top. CIPB #2: Depth _____ with _____ 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 80 sks cmt from 2550 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged: ☐

Set 80 sks cmt from 1260 ft. to 1060 ft. Plug Type: OPEN HOLE Plug Tagged: ☐

Set 152 sks cmt from 455 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: ☐

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 Cut and Cap Date: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

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

Technical Detail/Comments:

Johnston 1 (05-123-13652)/Plugging Procedure (Intent)
Producing Formation: Niobrara/Codell: 6938'-7270'
Upper Pierre Aquifer: 200'-1160'
TD: 7366' PBTD: 7331' (4/21/2015)
Surface Casing: 8 5/8" 24# @ 255' w/ 200 sxs
Production Casing: 4 1/2" 11.6# @ 7366' w/ 200 sx cmt (TOC @ 6390' – CBL)

Tubing: 2 3/8" tubing set @ 7242' (9/14/2015)
Proposed Procedure:
1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6888'. Top with 2 sxs 15.8#/gal Cl G cement. (Top of Nio perfs @ 6938')
4. TIH with casing cutter. Cut 4 ½" casing at 2500'. Pull cut casing.
5. TIH with tubing to 2550'. RU cementing company. Mix and pump 80 sxs 15.8#/gal Cl G cement down tubing. (Stub plug from 2550'-2300')
6. TIH with tubing to 1260'. Mix and pump 80 sxs 15.8#/gal Cl G cement down tubing (Pierre coverage from 1260'-1060').
7. Pick up tubing to 455'. Mix and pump 152 sxs 15.8#/gal Cl G cement down tubing (Pierre coverage from 455'-surface). 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: Valerie Danson

Title: Reg Tech Date: 3/11/2020 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.

JENKINS, STEVE

COGCC Approved:

Date: 3/12/2020

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 9/11/2020

COA Type	Description
	For Wells with known Bradenhead pressures: 1) Provide 48-hour notice of plugging MIRU via electronic Form 42. 2) The plug at 2550' needs to be placed and have an 8-hour WOC to assure that all fluid migration has been stopped. If that doesn't isolate the flow, additional attempts in front of the surface shoe plug will need to be attempted. Other downhole potential squeeze opportunities may need to be looked at before the 455' plug. 3) Prior to placing the 455' 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. 4) 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 205' or shallower and provide 10 sx plug at the surface. Leave at least 100' of cement in the casing for each plug. 5) Properly abandon flowlines as per Rule 1105. File electronic Form 42 once abandonment 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. 6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed. 7) After placing the shallowest hydrocarbon isolating plug (2550'), 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.
	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.

Attachment Check List

Att Doc Num	Name
402339179	FORM 6 INTENT SUBMITTED
402339237	WELLBORE DIAGRAM
402339238	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	1) Deepest Water Well within 1 mile = 68'. 2) Fox Hills Bottom- 179', per SB5.	03/12/2020
Permit	-Confirmed as-drilled well location. -No other forms in process. -Production reporting up-to-date. -Confirmed gross productive interval, docnum: 157005. -Reviewed WBDs. -Pass.	03/12/2020

Total: 2 comment(s)