FORM 6 Rev 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

DE	ET	OE	ES

Document Number: 402260259

Date Received: 12/11/2019

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, COGCC contact: Name: Silver, Randy Tel: (720) 827-6688 Email: randy.silver@state.co.us

API Number 05-123-21408-00

Well Name: LINKUS Well Number: 41-24

Location: QtrQtr: NENE Section: 24 Township: 1N Range: 68W 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: 40.042489 Longitude: -104.944685

GPS Data:

Date of Measurement: 07/23/2010 PDOP Reading: 2.7 GPS Instrument Operator's Name: Shantell Kling

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 1920

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	8260	8284			

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	876	780	876	0	VISU
1ST	7+7/8	4+1/2	11.6	8,418	245	8,418	6,990	CBL
			Stage Tool	5,054	125	5,054	4,350	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8210 with _____ sacks cmt on top. CIPB #2: Depth 7760 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 25 sks cmt from 8210 ft. to 7880 ft. Plug Type: CASING Plug Tagged: ☐

Set 32 sks cmt from 7760 ft. to 7338 ft. Plug Type: CASING Plug Tagged: ☐

Set 25 sks cmt from 5065 ft. to 4735 ft. Plug Type: CASING Plug Tagged: ☐

Set 100 sks cmt from 1970 ft. to 1720 ft. Plug Type: STUB PLUG Plug Tagged: ☐

Set 310 sks cmt from 1000 ft. to 0 ft. Plug Type: OPEN HOLE 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 *ATTACH JOB SUMMARY

Technical Detail/Comments:

Linkus 41-24 (05-123-21408)/Plugging Procedure (Intent)
Producing Formation: J-Sand: 8260'-8284'
Upper Pierre Aquifer: 200'-2170'
TD: 8418' PBTD: 8388' (1/24/2004)
Surface Casing: 8 5/8" 24# @ 876' w/ 780 sxs
Production Casing: 4 1/2" 11.6# @ 8418' w/ 245 sxs cmt (TOC @ 6990' - CBL)
• DV Tool @ 5015' w/ 125 sxs cmt (5054' - 4350' - CBL)
• Cement Basket @ 8057'

Tubing: 2 3/8" tubing set @ 8206' (2/2/2004)
Proposed Procedure:
1. MIRU pulling unit. Pull 2 3/8 tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 8210'.
4. TIH with tubing to 8210'. RU cementing company. Mix and pump 25 sxs 15.8#/gal Cl G cement down tubing.
5. TIH with CIBP. Set BP at 7760'.
6. TIH with tubing to 7760'. RU cementing company. Mix and pump 32 sxs 15.8#/gal Cl G cement down tubing.
7. Pick up tubing to 5065'. Mix and pump 25 sxs 15.8#/gal Cl G cement down tubing.
8. TIH with casing cutter. Cut 4 ½" casing at 1920'. Pull cut casing.
9. TIH with tubing to 1970'. RU cementing company. Mix and pump 100 sxs 15.8#/gal Cl G cement down tubing.
10. Pick up tubing to 1000'. Mix and pump 310 sxs 15.8#/gal Cl G cement down tubing. Cement should circulate to surface.
11. 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: 12/11/2019 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: 12/17/2019

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 6/16/2020

COA Type	Description
	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2)Prior to placing the 1000' 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. 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 826' or shallower and provide 10 sx plug at the surface. 4)Leave at least 100' of cement in the wellbore for each plug. 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. 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 (5065'), 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
402260259	FORM 6 INTENT SUBMITTED
402260313	WELLBORE DIAGRAM
402260314	WELLBORE DIAGRAM
402260315	GYRO SURVEY

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Engineer	Well file verification not completed prior to approval of NOIA.	12/17/2019
Engineer	1) Deepest Water Well within 1 mile = 800'. 2) Fox Hills Bottom- N/A, per SB5.	12/17/2019
Permit	-Confirmed as-drilled well location. -No other forms in process. -Production reporting up-to-date for this operator. -Confirmed productive interval docnum: 1504422. -Reviewed WBDs. -Pass.	12/16/2019

Total: 3 comment(s)