

FORM 6

Rev 02/20

State of Colorado Oil and Gas Conservation Commission

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DE ET OE ES

Replug By Other Operator

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Date Received:

07/22/2020

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, Name: Tel:
COGCC contact: Email:

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

API Number 05-123-07326-00 Well Name: LESSER Well Number: 1
Location: QtrQtr: NENE Section: 21 Township: 5N Range: 66W 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: 40.390390 Longitude: -104.778620
GPS Data: GPS Quality Value: 1.6 Type of GPS Quality Value: Date of Measurement: 05/05/2020
GPS Instrument Operator's Name: Scott Sherard
Reason for Abandonment: [] Dry [] Production Sub-economic [] Mechanical Problems
[] Other
Casing to be pulled: [] Yes [] No Estimated Depth:
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

Table with columns: Formation, Perf. Top, Perf. Btm, Abandoned Date, Method of Isolation, Plug Depth

Total: 0 zone(s)

Casing History

Table with columns: Casing Type, Size of Hole, Size of Casing, Weight Per Foot, Setting Depth, Sacks Cement, Cement Bot, Cement Top, Status

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ 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 126 sks cmt from 6950 ft. to 6321 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 265 sks cmt from 4136 ft. to 3217 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 230 sks cmt from 1739 ft. to 879 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 169 sacks half in. half out surface casing from 579 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 Cut and Cap Date: 06/23/2020
of _____
*Wireline Contractor: _____ *Cementing Contractor: NexTier
Type of Cement and Additives Used: Class G 15.8 PPG Cement & Type III 14.8 PPG Portland Cement
Flowline/Pipeline has been abandoned per Rule 1105 Yes No

Technical Detail/Comments:

Lesser 1 (05-123-07326)/Re-Enter to Re-Plug Procedure
Original Plug Date: 6/8/1971
Producing Formation: N/A (DA well)
Upper Pierre Aquifer: 470'-1470'
TD: 7846'
Surface Casing: 8 5/8" 24# @ 165' w/ 160 sxs cmt
Open Hole: 7 7/8" @ 7846'
Existing Plugs: 390'-116' (95 sx cmt), 20' to Surface (10 sx cmt)
Procedure:
1. Dig out to find wellhead and check pressure.
2. Cut cap off, extend surface pipe to achieve ground level.
3. MIRU WO unit, ND wellhead, NU BOP, tally all pipe to be ran in well.
4. Mill cement, cement btm is approximately 390' according to well history data.
5. Wash run down to top of Niobrara @ 7000'.
6. PU tubing to 6950'. RU cementing company. Mix and pump 126 sxs 15.8#/gal CI G cement down tubing (Nio coverage 6950'-6450'). PU tubing above plug and SI well. (Top of Niobrara @ 7000')
a. Wait 4 hours and tag plug. TOC tagged at 6321'.
7. PU tubing to 4136'. RU cementing company. Mix and pump 265 sxs 15.8#/gal CI G cement down tubing (Sussex coverage 4120'-3620'). PU tubing above plug and SI well. (Top of Sussex @ 4170')
a. Wait 4 hours and tag plug. TOC tagged at 3217'.
8. PU tubing to 1739'. RU cementing company. Mix and pump 230 sxs 14.8#/gal Type III cement down tubing (Pierre Aquifer coverage 1720'-1220'). PU tubing above plug and SI well.
a. Wait 4 hours and tag plug. TOC tagged at 879'.
9. PU tubing to 579'. RU cementing company. Mix and pump 169 sxs 14.8#/gal Type III cement down tubing. Cement circulate to surface.
10. RDMO WO unit. Remove extension of surface pipe.
11. Weld on cap with ID plate, inscribed with well location, and identity. Backfill, clean location, Re-Entry complete.

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: 7/22/2020 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.

COGCC Approved: McFarland, Nick Date: 9/15/2020

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402449262	FORM 6 SUBSEQUENT SUBMITTED
402449263	CEMENT JOB SUMMARY
402449264	OPERATIONS SUMMARY
402449265	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Procedure, WBD and tickets are consistent.	09/15/2020

Total: 1 comment(s)