

Document Number:
 403036463
 Date Received:
 05/26/2022

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, Name: _____ Tel: _____
 Email: _____
COGCC contact: _____

Type of Well Abandonment Report: Notice of Intent to Abandon Subsequent Report of Abandonment

API Number 05-123-37811-00
 Well Name: Lofland Well Number: 22T-402
 Location: QtrQtr: SESE Section: 22 Township: 5N Range: 65W 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: 40.378465 Longitude: -104.644623
 GPS Data: GPS Quality Value: 3.0 Type of GPS Quality Value: PDOP Date of Measurement: 02/21/2019
 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

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL-FORT HAYS	7383	12676	01/28/2022	RETAINER/SQUEEZED	7321

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	13+3/4	9+5/8	J55	36	0	910	820	910	0	VISU
1ST	8+3/4	7	J55	26	0	7305	640	7305	1050	CBL
1ST LINER	6+1/8	4+1/2	J55	13.5	7177	12652				

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 4005 with 5 sacks cmt on top. CIBP #2: Depth 2500 with 5 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 150 sks cmt from 7320 ft. to 6590 ft. Plug Type: CASING Plug Tagged:
 Set 56 sks cmt from 1244 ft. to 943 ft. Plug Type: CASING 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 7506 ft. with 14 sacks. Leave at least 100 ft. in casing 7321 CICR Depth
 Perforate and squeeze at 1350 ft. with 49 sacks. Leave at least 100 ft. in casing 1245 CICR Depth
 Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth
 (Cast Iron Cement Retainer Depth)

Set 213 sacks half in. half out surface casing from 943 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 Number of Days from Setting Surface Plug to Capping or Sealing the Well: 93
 Surface Plug Setting Date: 02/08/2022 Cut and Cap Date: 05/12/2022
 *Wireline Contractor: Ranger Energy Services *Cementing Contractor: Magnum Cementing Services
 Type of Cement and Additives Used: Class G 15.8 PPG MAG G Cement
 Flowline/Pipeline has been abandoned per Rule 1105 Yes No

Technical Detail/Comments:

Lofland 22T-402 (05-123-37811)/Plugging Procedure
 Producing Formations: Ft Hays/Codell: 7383'-12676'
 Upper Pierre Aquifer: 365'-1340'
 Deepest Water Well: 350'
 TD: 12676' PBTD: 12648' (2/9/2014)
 Surface Casing: 9 5/8" 36# @ 910' w/ 820 sxs
 Intermediate Casing: 7" 26# @ 7305' w/ 640 sxs cmt (TOC @ 1370' - CBL)
 Liner: 4 1/2" 13.5# @ 12652', Liner Hanger @ 7177'
 Parted/Collapsed Liner @ 7371' (camera verified 8/2/2019)
 Procedure:
 1. MIRU pulling unit. Pull 2 3/8" tubing.
 2. TIH with CICR. Set CICR at 7321' (85°). (Top of Ft Hays @ 7383'; Liner collapse @ 7371') RU cementing company. Sting in and pump 164 sxs 15.8#/gal MAG G cement. Sting out and leave 150 sxs (of the 164 sxs) cement on top of CICR. (Top of Niobrara @ 6707'; 90.4°) TOC at 6590'.
 3. RU wireline company.
 4. TIH with CIBP. Set BP at 4005'. Top with 5 sxs 15.8#/gal CI G cement. (Top of Sussex @ 4055')
 5. TIH with CIBP. Set BP at 2500'. Top with 5 sxs 15.8#/gal CI G cement.
 6. Run a CBL from 2000' to surface. Contacted the State, moved forward with the approved procedure change.
 7. TIH with perf gun. Shoot lower squeeze holes at 1350' and upper squeeze holes at 1230'.
 8. TIH with CICR. Set CICR at 1245'. RU cementing company. Sting in and pump 105 sxs 15.8#/gal MAG G cement. Sting out and leave 56 sxs (of the 105 sxs) cement on top of CICR. (Pierre Coverage from 1365'-1126') TOC tagged at 943'.
 9. TIH with tubing to 943'. Mix and pump 213 sxs 15.8#/gal MAG G cement down tubing (Shoe coverage 1014' to 860') Cement 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: 5/26/2022 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: Jacobson, Eric Date: 8/18/2022

CONDITIONS OF APPROVAL, IF ANY:

Condition of Approval

COA Type	Description
0 COA	

Attachment List

Att Doc Num	Name
403036463	FORM 6 SUBSEQUENT SUBMITTED
403036538	CEMENT BOND LOG
403036539	CEMENT JOB SUMMARY
403036541	OTHER
403036544	OTHER
403036545	OPERATIONS SUMMARY
403036546	WELLBORE DIAGRAM
403036547	WIRELINE JOB SUMMARY
403061038	OTHER

Total Attach: 9 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)