

Document Number:
 403029767
 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 05-123-37809-00
 Well Name: Lofland Well Number: 22D-232
 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: 40.378508 Longitude: -104.644537
 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 |
|------------------|-----------|-----------|----------------|---------------------|------------|
| NIOBRARA | 7365 | 12566 | 02/04/2022 | CEMENT | 7315 |
| 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 | 933 | 840 | 933 | 0 | VISU |
| 1ST | 8+3/4 | 7 | J55 | 26 | 0 | 7302 | 640 | 7302 | 0 | CBL |
| 1ST LINER | 6+1/8 | 4+1/2 | J55 | 13.5 | 7118 | 12562 | | | | |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 4051 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 80 sks cmt from 7314 ft. to 6770 ft. Plug Type: CASING Plug Tagged:
Set 16 sks cmt from 4415 ft. to 4172 ft. Plug Type: CASING Plug Tagged:
Set 72 sks cmt from 1450 ft. to 1050 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:
Perforate and squeeze at 4410 ft. with 7 sacks. Leave at least 100 ft. in casing _____ CICR Depth
Perforate and squeeze at 1170 ft. with 5 sacks. Leave at least 100 ft. in casing _____ CICR Depth
Perforate and squeeze at 930 ft. with 15 sacks. Leave at least 100 ft. in casing _____ CICR Depth
(Cast Iron Cement Retainer Depth)
Set 183 sacks half in. half out surface casing from 1050 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 22D-232 (05-123-37809)/Plugging Procedure
 Producing Formation: Niobrara: 7365'-12566'
 Upper Pierre Aquifer: 365'-1346'
 Deepest Water Well: 350'
 TD: 12566' PBTD: 12558' (2/9/2014)
 Surface Casing: 9 5/8" 36# @ 933' w/ 840 sxs
 Intermediate Casing: 7" 26# @ 7302' w/ 640 sxs cmt (TOC @ Surface - CBL)
 Liner: 4 1/2" 13.5# @ 12562', Liner Hanger @ 7118'

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. TIH with CICR. Set CICR at 7315' (90°). (Top of Niobrara frac sleeves @ 7489') RU cementing company. Sting in and attempted to pump cement through perfs, but pressured up to 3000 PSI. Sting out and leave 80 sxs 15.8#/gal MAG G cement on top of CICR. (Top of Niobrara @ 7069'; 72°) TOC at 6770'.
3. RU wireline company.
4. TIH with perf gun. Shoot squeeze holes at 4410'.
5. TIH with tubing to 4415'. RU cementing company. Mix and pump 23 sxs 15.8#/gal MAG G cement down tubing. Squeeze 6.7 sxs (of the 23 sxs) cement through holes at 4410'. TOC at 4172'.
6. TIH with CIBP. Set BP at 4051'. Top with 5 sxs 15.8#/gal CI G cement. (Top of Sussex @ 4101')
7. Ran a CBL from 2500' to Surface. Contacted the State, moved forward with the approved procedure change.
8. TIH with CIBP. Set BP at 2500'. Top with 5 sxs 15.8#/gal CI G cement.
9. TIH with perf gun. Shoot squeeze holes at 1170'.
10. TIH with tubing to 1450'. RU cementing company. Mix and pump 77 sxs 15.8#/gal MAG G cement down tubing. Squeeze 4.9 sxs (of the 77 sxs) cement through holes at 1170'. TOC tagged at 1050'.
11. TIH with perf gun. Shoot squeeze holes at 930'.
12. Pick up tubing to 1050'. RU cementing company. Mix and pump 198 sxs 15.8#/gal MAG G cement down tubing. Squeeze 15 sxs (of the 198 sxs) cement through holes at 930'. Cement circulate to surface.
13. 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

| <u>COA Type</u> | <u>Description</u> |
|-----------------|--------------------|
| 0 COA | |

Attachment List

| <u>Att Doc Num</u> | <u>Name</u> |
|---------------------------|-----------------------------|
| 403029767 | FORM 6 SUBSEQUENT SUBMITTED |
| 403029797 | CEMENT BOND LOG |
| 403029799 | CEMENT JOB SUMMARY |
| 403029801 | OTHER |
| 403029804 | OTHER |
| 403029806 | OPERATIONS SUMMARY |
| 403029808 | WELLBORE DIAGRAM |
| 403036310 | WIRELINE JOB SUMMARY |
| 403061016 | OTHER |

Total Attach: 9 Files

General Comments

User Group

Comment

Comment Date

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|--------------------------|-----------------------|----------------------------|
| | | Stamp Upon Approval |

Total: 0 comment(s)