

Document Number:
 402900229

Date Received:

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: _____

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

API Number 05-013-06224-00
 Well Name: CLAY Well Number: 1
 Location: QtrQtr: SESW Section: 26 Township: 2N Range: 69W Meridian: 6
 County: BOULDER Federal, Indian or State Lease Number: 10484
 Field Name: WATTENBERG Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.105858 Longitude: -105.087577
 GPS Data: GPS Quality Value: 1.3 Type of GPS Quality Value: PDOP Date of Measurement: 06/10/2021

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 |
|-----------|-----------|-----------|----------------|---------------------|------------|
| J SAND | 8027 | 8041 | 09/15/2021 | B PLUG CEMENT TOP | 7977 |

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 | 12+1/4 | 9+5/8 | J55 | 36 | 0 | 611 | 600 | 611 | 0 | VISU |
| 1ST | 7+7/8 | 4+1/2 | J55 | 11.6 | 0 | 8167 | 275 | 8167 | 6779 | CALC |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7977 with 2 sacks cmt on top. CIBP #2: Depth 7234 with 2 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 <u>10</u> sks cmt from <u>6714</u> ft. to <u>6700</u> ft. | Plug Type: <u>CASING</u> | Plug Tagged: <input type="checkbox"/> |
| Set <u>100</u> sks cmt from <u>2561</u> ft. to <u>2278</u> ft. | Plug Type: <u>STUB PLUG</u> | Plug Tagged: <input checked="" type="checkbox"/> |
| Set <u>100</u> sks cmt from <u>1639</u> ft. to <u>1430</u> ft. | Plug Type: <u>OPEN HOLE</u> | Plug Tagged: <input type="checkbox"/> |
| Set _____ sks cmt from _____ ft. to _____ ft. | Plug Type: _____ | Plug Tagged: <input type="checkbox"/> |
| Set _____ sks cmt from _____ ft. to _____ ft. | Plug Type: _____ | Plug Tagged: <input type="checkbox"/> |

Perforate and squeeze at 6900 ft. with 90 sacks. Leave at least 100 ft. in casing 6715 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 436 sacks half in. half out surface casing from 825 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: 2500 ft. of 4+1/2 inch casing
 Surface Plug Setting Date: 09/20/2021 Cut and Cap Date: 10/22/2021 Number of Days from Setting Surface Plug to Capping or Sealing the Well: 32

*Wireline Contractor: Ranger Energy Services *Cementing Contractor: DUCO Inc. Cementing Services

Type of Cement and Additives Used: Class G 15.8 PPG Cement

Flowline/Pipeline has been abandoned per Rule 1105 Yes No

Technical Detail/Comments:

Clay 1 (05-013-06224)/Plugging Procedure
 Producing Formation: J Sand: 8027'-8041'
 Upper Pierre Aquifer: 500'-1530'
 TD: 8167' PBTD: 8132'
 Surface Casing: 9 5/8" 36# @ 611' w/ 600 sxs cmt
 Production Casing: 4 1/2" 11.6# @ 8167' w/ 275 sxs cmt (TOC @ 6779' - Calc)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7977'. Top with 2 sxs 15.8#/gal CI G cement. (Top of J Sand perms @ 8027')
4. Ran a CBL from 7900' to Surface. Contacted the State, moved forward with the approved procedure change.
5. TIH with CIBP. Set BP at 7234'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 7284')
6. TIH with perf gun. Shoot lower squeeze holes at 6900' and upper squeeze holes at 6700'.
7. TIH with CICR. Set CICR at 6715'. RU cementing company. Sting in and pump 100 sxs 15.8#/gal CI G cement. Sting out and leave 10 sxs (of the 100 sxs) cement on top of CICR. TOC at 6700'.
8. TIH with casing cutter. Cut 4 1/2" casing @ 2500'. Pull cut casing.
9. TIH with tubing to 2561'. RU cementing company. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Stub plug from 2550'-2300') TOC tagged at 2278'.
10. Wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or fluid migration, contact engineering before continuing operations.
11. TIH with tubing to 1639'. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Pierre coverage from 1630'-1430') TOC at 1430'.
12. Pick up with tubing to 825'. Mix and pump 436 sxs 15.8#/gal CI G cement down tubing. 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: _____ 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: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

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

Attachment List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|--------------------|
| 402900328 | CEMENT BOND LOG |
| 402900331 | CEMENT JOB SUMMARY |
| 402900334 | OTHER |
| 402900338 | OTHER |
| 402900339 | OPERATIONS SUMMARY |
| 402900340 | WELLBORE DIAGRAM |

Total Attach: 6 Files

General Comments

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

Total: 0 comment(s)