

FORM  
6Rev  
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:

401711904

Date Received:

07/24/2018

## 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: 10518

Contact Name: Brittany Rothe

Name of Operator: CONFLUENCE DJ LLC

Phone: (303) 226-9519

Address: 1001 17TH STREET #1250

Fax: (303) 226-9595

City: DENVER State: CO Zip: 80202

Email: brothe@confluencelp.com

For "Intent" 24 hour notice required,

Name: Gomez, Jason

Tel: (970) 573-1277

COGCC contact:

Email: jason.gomez@state.co.us

API Number 05-001-08266-00

Well Name: PENROD 4-15

Well Number: 1

Location: QtrQtr: SWSE Section: 4 Township: 1S Range: 65W Meridian: 6

County: ADAMS

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: 39.989600

Longitude: -104.665270

GPS Data:

Date of Measurement: 04/28/2010

PDOP Reading: 2.3

GPS Instrument Operator's Name: KEITH WESTFALL

Reason for Abandonment: ☐ Dry ☐ Production Sub-economic ☐ Mechanical Problems☒ Other P&A'ing barely economic well prior to offset HZ completionsCasing 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    | 7946      | 7974      |                |                     |            |

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              | 252           |              | 252        |            |        |
| 1ST         | 6+5/8        | 3+1/2          | 9.3             | 8,045         | 250          | 8,045      | 7,060      | CBL    |
| S.C. 1.1    |              |                |                 | 1,400         | 350          | 1,420      | 0          | CBL    |

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7896 with 2 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 15 sks cmt from 1420 ft. to 1075 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: ☐  
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged: ☐

Perforate and squeeze at 7010 ft. with 113 sacks. Leave at least 100 ft. in casing 6960 CICR Depth

Perforate and squeeze at 2500 ft. with 50 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 35 sacks half in. half out surface casing from 780 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 Plugging Date: \_\_\_\_\_  
of \_\_\_\_\_

\*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:

**Pull Tubing and Gyro Wellbore**

- 1.) MIRU wireline. RIH with Gyro Survey to EOT. RD wireline.
- 2.) MIRU workover rig, pump and tank. Blow down wellhead, rig up and pump 10-20 bbls lease water down tubing to control well.
- 3.) ND wellhead, NU BOP. Make up 2-3/8" pump joint and TIW to tubing string. PU on tubing, un-land tubing and tubing hanger.
- 4.) Inspect via Tuboscope while TOO H w/ +/- 7939' 2-3/8" tubing string.

**Plug Well**

- 5.) RIH wireline, set CIBP @ +/- 7,896', ~50' above top perf.
- 6.) Dump 2 sacks cement on CIBP. Test casing to 500 psi.
- 7.) If test ok, RIH on wireline a 1', 2 spf perf gun. Shoot 2 squeeze holes @ +/- 7,010'. RD wireline.
- 8.) RIH with a tubing-set 3-1/2" x 2-3/8" cement retainer, 2-3/8" stinger and 2-3/8" tubing. Set cement retainer @ +/- 6,960'.
- 9.) RU cementers. Squeeze 118 sxs of 15.8 ppg Class G 'neat' cement down tubing/ retainer and into squeeze holes. (113 + 5 above retainer)
- 10.) Sting out of cement retainer with 5 sacks in tubing and spot cement on top of retainer. PU +/- 65' and circulate hole clean, TOO H with 2-3/8" tubing. Note any cement while circulating hole. WOC.
- 11.) RU wireline. Tag TOC, run CBL across squeeze. Confirm >400' cement coverage over Niobrara. If coverage is not adequate, repeat steps 7 – 9, shooting perf holes @ about TOC per CBL.
- 12.) Once adequate cement in annular of 3-1/2" production string is achieved, move to next.
- 13.) RIH on wireline a 1', 2 spf perf gun. Shoot 2 squeeze holes @ +/- 1,385'. RD wireline.
- 14.) RIH with tubing set 3-1/2" x 2-3/8" cement retainer, 2-3/8" stinger and 2-3/8" tubing. Set cement retainer @ +/- 1,335'.
- 15.) RU cementers. Squeeze 123 sxs of 15.8 ppg Class G 'neat' cement down tubing/ retainer and into squeeze holes. (118 + 5 above retainer)
- 16.) Sting out of cement retainer with 5 sacks in tubing and spot cement on top of retainer. PU +/- 65' and circulate hole clean, TOO H with 2-3/8" tubing. Note any cement while circulating hole. WOC.
- 17.) RU wireline. Tag TOC, run CBL across squeeze. Confirm cement coverage over Fox Hills. If coverage is not adequate, repeat steps 15 – 17, shooting perf holes @ about TOC per CBL.
- 18.) RIH on wireline a 1', 2 spf perf gun. Shoot 2 squeeze holes @ 352'. RD wireline.
- 19.) RU cementers to 3-1/2" casing. Bullhead pump 109 sx of 15.8 ppg Class G 'neat' for surface plug down casing and up annulus to surface.
- 20.) RDMO.

**Reclaim**

- 21.) Excavate around wellhead to 8' below grade, cut off 3-1/2" casing and 8-5/8" casing, weld on cap.
- 22.) Obtain GPS location data as per COGCC Rule 215.
- 23.) Backfill hole and reclaim surface to original conditions.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Brittany Rothe  
Title: Engineering Manager Date: 7/24/2018 Email: brothe@confluencelp.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: BURN, DIANA Date: 8/11/2018

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 2/10/2019

| <b>COA Type</b> | <b>Description</b>   |
|-----------------|--|
|                 | <p>NOTE: Changes in plugging procedure - removed CICR, deepened plug, changed volume - additional plug 2500'</p> <p>If cement not present behind casing at surface - needs to be cement placed outside of casing at surface. Fox Hills plug (1425') plug shall be tagged at 1280' or shallower.</p> <p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) If 780' plug does not remain at surface after WOC - tag plug and provide cement at surface.</p> <p>3) Properly abandon flowlines as per Rule 1105. File electronic Form 42 once abandonment 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.</p> |
|                 | <p>Prior to starting plugging operations a bradenhead test shall be performed.</p> <p>1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions, Appendix A: Liquid and Gas Sampling.</p> <p>The Form 17 shall be submitted within 10 days of the test.</p>  |
|                 | Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.  |

### **Attachment Check List**

| <b>Att Doc Num</b> | <b>Name</b>                 |
|--------------------|-----------------------------|
| 401711904          | FORM 6 INTENT SUBMITTED     |
| 401712031          | PROPOSED PLUGGING PROCEDURE |
| 401712033          | WELLBORE DIAGRAM            |

Total Attach: 3 Files

### **General Comments**

| <b>User Group</b>      | <b>Comment</b>   | <b>Comment Date</b> |
|------------------------|--|---------------------|
| Engineer               | Denver 5004 5090 32.5 125 39 8.84 NNT<br>Upper Arapahoe 4783 4958 27.8 346 171 7.56 NNT<br>Lower Arapahoe 4398 4708 104.0 731 421 28.29 NT<br>Laramie-Fox Hills 3799 4052 151.1 1330 1077 36.26 NT | 08/11/2018          |
| Permit                 | Ready to pass form.<br>J Sand productive interval confirmed via doc# 312152.   | 07/30/2018          |
| Well File Verification | Pass   | 07/26/2018          |

Total: 3 comment(s)