

**FORM**  
**6**  
Rev  
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:<br>402022325 |    |    |    |
| Date Received:<br>04/30/2019  |    |    |    |

**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: 100322 Contact Name: Garrett Reddin  
 Name of Operator: NOBLE ENERGY INC Phone: (720) 822-9993  
 Address: 1001 NOBLE ENERGY WAY Fax: \_\_\_\_\_  
 City: HOUSTON State: TX Zip: 77070 Email: garrett.reddin@nblenergy.com

**For "Intent" 24 hour notice required,** Name: Carlile, Craig Tel: (970) 629-8279  
**COGCC contact:** Email: craig.carlile@state.co.us

API Number 05-123-24080-00 Well Number: 37-11  
 Well Name: FRICO  
 Location: QtrQtr: SWSE Section: 11 Township: 3N Range: 65W Meridian: 6  
 County: WELD 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: 40.233870 Longitude: -104.627940  
 GPS Data:  
 Date of Measurement: 12/09/2006 PDOP Reading: 3.0 GPS Instrument Operator's Name: STEVE FISHER  
 Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other \_\_\_\_\_  
 Casing to be pulled:  Yes  No Estimated Depth: 2495  
 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    | 7160      | 7175      |                |                     |            |
| NIOBRARA  | 6894      | 7045      |                |                     |            |
| J SAND    | 7624      | 7690      | 04/15/2011     | SAND PLUG           | 7400       |

Total: 3 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              | 581           | 250          | 581        | 0          | VISU   |
| 1ST         | 7+7/8        | 4+1/2          | 11.6            | 7,781         | 520          | 7,781      | 3,395      | CBL    |

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7183 with 10 sacks cmt on top. CIBP #2: Depth 6842 with 20 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 45 sks cmt from 4632 ft. to 4102 ft. Plug Type: CASING Plug Tagged:   
Set 200 sks cmt from 2545 ft. to 1995 ft. Plug Type: STUB PLUG 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 \_\_\_\_\_ 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 270 sacks half in. half out surface casing from 781 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:

Sand plug over J Sand @7397'

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

Signed: \_\_\_\_\_ Print Name: Stephanie Dionne

Title: Operations Tech Date: 4/30/2019 Email: stephanie.dionne@nblenergy.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: 5/3/2019

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_

Expiration Date: 11/2/2019

| <b>COA Type</b> | <b>Description</b>   |
|-----------------|--|
|                 | -Update production reporting. Jsand was TA'd in April 2011. From May 2011-Jan 2014 Jsand status reported as SI. Feb. 2014-April 2017 Jsand reported as producing. May 2017-present, Jsand reported as SI.  |
|                 | <b>WITH KNOWN BRADENHEAD PRESSURE</b><br>The plug at 2545' needs to be placed and have an 8 hour WOC to assure that all fluid migration has been stopped. If that doesn't isolate the flow, additional attempts in front of the surface shoe plug will need to be attempted. Other downhole potential squeeze opportunities may need to be looked at before the 781' plug.   |
|                 | If there has not been a reported Bradenhead test within 60 days of plugging this well, prior to starting plugging operations, a Bradenhead test shall be performed.<br>1) If, before opening the Bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.<br>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.<br>3) If sampling is required contact COGCC engineering for a confirmation of plugging requirements prior to placing any plugs.<br>Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions.<br>The Form 17 shall be submitted within 10 days of the test.  |
|                 | 1) Provide 48 hour notice of plugging MIRU via electronic Form 42.<br>2) Prior to placing the 781' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders.<br>3) After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 531' or shallower and provide 10 sack plug at surface.<br>4) Leave at least 100' of cement in the wellbore for each plug.<br>5) Properly abandon on-location flowlines as per Rule 1105. File electronic Form 42 once abandonment is 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. |
|                 | Operator shall implement measures to control venting, to protect health and safety, 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>             |
|--------------------|-------------------------|
| 402022325          | FORM 6 INTENT SUBMITTED |
| 402025950          | WELLBORE DIAGRAM        |
| 402025951          | WELLBORE DIAGRAM        |

Total Attach: 3 Files

### General Comments

| <u>User Group</u>         | <u>Comment</u>   | <u>Comment Date</u> |
|---------------------------|--|---------------------|
| Permit                    | Ready to pass.   | 05/01/2019          |
| Permit                    | Returned to draft per operator   | 04/30/2019          |
| Engineer                  | Deepest Water Well within 1 Mile – 400'<br>SB5 Base of Fox Hills - 496'  | 04/30/2019          |
| Permit                    | -Confirmed as-drill well location.<br>-Production reporting up-to-date.<br>-No other forms in process-Confirmed Nio and Codell intervals docnum: 1830953<br>-Confirmed Jsand interval, docnum: 400165175<br>-Update production reporting. Jsand was TA'd in April 2011. From May 2011-Jan 2014 Jsand status reported as SI. Feb. 2014-April 2017 Jsand reported as producing. May 2017-present, Jsand reported as SI. Update production reporting and/or file an updated 5A. Inquired with operator.<br>-Reviewed WBDs.<br>-Corrected Jsand TA on zones tab. | 04/29/2019          |
| Well File<br>Verification | Pass   | 04/29/2019          |

Total: 5 comment(s)