FORM 6 Rev 12/05

# 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: 401531852

Date Received: 02/05/2018

## 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: 100322 Contact Name: SONU CHOUDHARY

Name of Operator: NOBLE ENERGY INC Phone: (720) 939-2574

Address: 1001 NOBLE ENERGY WAY Fax:

City: HOUSTON State: TX Zip: 77070 Email: NARAYAN.CHOUDHARY@NBLENERGY.COM

**For "Intent" 24 hour notice required, COGCC contact:** Name: Montoya, John Tel: (970) 397-4124 Email: john.montoya@state.co.us

API Number 05-123-17422-00

Well Name: HANSON Well Number: D 30-14

Location: QtrQtr: SESW Section: 30 Township: 3N Range: 64W 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: 40.190477 Longitude: -104.595730

GPS Data:

Date of Measurement: 07/10/2009 PDOP Reading: 2.6 GPS Instrument Operator's Name: Paul Tappy

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 925

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 | 7055 | 7066 | | | |
| NIOBRARA | 6868 | 6875 | | | |

Total: 2 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 | 662 | 450 | 662 | 0 | VISU |
| 1ST | 7+7/8 | 3+1/2 | 7.7 | 7,251 | 184 | 7,251 | 6,450 | CBL |
| S.C. 1.1 | | | | 5,150 | 595 | 5,150 | 3,740 | CBL |

# Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6823 with 2 sacks cmt on top. CIPB #2: Depth _____ with _____ sacks cmt on top.

CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 30 sks cmt from 4650 ft. to 3950 ft. Plug Type: CASING Plug Tagged: ☐

Set 10 sks cmt from 2400 ft. to 2200 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 2500 ft. with 180 sacks. Leave at least 100 ft. in casing 2400 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 320 sacks half in. half out surface casing from 975 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 Plugging Date: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1103 ☐ Yes ☐ No *ATTACH JOB SUMMARY

Technical Detail/Comments:

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

Signed: _____ Print Name: ANGELA FIORE

Title: ENGINEERING TECH Date: 2/5/2018 Email: ANGELA.FIORE@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: Wolfe, Stephen Date: 3/22/2018

**CONDITIONS OF APPROVAL, IF ANY:** Expiration Date: 9/21/2018

| COA Type | Description |
|---|---|
| | Venting<br>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. |
| | Bradenhead Testing<br>• Prior to the start of plugging operations, a bradenhead test shall be performed and reported if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations.<br>• If any of the following conditions exist then sampling of all fluids is required and sampling methods shall comply with Operator Guidance – Bradenhead Testing and Reporting Instructions, Appendix A: Liquid and Gas Sampling as found on the COGCC website, cogcc.state.co.us.<br>1) The initial pressure measurement on the bradenhead is greater than 25 psi, prior to blowing down any liquid or gas from the bradenhead valve, or<br>2) Pressure remains at the conclusion of the test, or<br>3) Any liquids are present anytime during the test. If so, then stop the test as soon as liquids are present and sample before resuming the test.<br>• Form 17 Bradenhead Test Report shall be submitted within 10 days of the test.<br>• If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples. |
| | Plugging<br>• Provide 48 hour notice of plugging MIRU via electronic Form 42.<br>• COGCC change: Added 10 sx casing plug on top of CICR at 2400’ to plugging procedure per attached wellbore diagram.<br>• If there is pressure on the surface casing at any time during the pre-plugging bradenhead test then wait 8 hrs after pumping squeeze at 2500’+- and check for fluid migration or shut-in pressure on the well. Contact COGCC Engineer for revised plugging orders if well is not static at this time prior to continuing with plugging operations.<br>• If there is fluid migration or shut-in pressure on the well prior to pumping any plug (annular or casing) that isolates deepest aquifer or the surface casing shoe (whichever is deeper) contact COGCC Engineer for revised plugging orders.<br>• If the shoe plug, or combined stub/shoe plug, is not circulated to the surface then the plug shall be tagged and must be 50’ into the shoe, or 50’ above the cut, whichever is shallower. Dual Induction log of 11/17/93 shows actual shoe is at 616’ and shoe joint is down the hole at 785-832’. Therefore 50’ into the shoe would be 566’.<br>• Place a 50' plug(minimum) at the surface, both inside the inner most casing and all annular spaces, all other plugs shall have at least 100' of cement left in the casing.<br>• Properly abandon flowlines as per Rule 1103. File electronic Form 42 once flowline abandonment is complete. |

## Attachment Check List

| Att Doc Num | Name |
|---|---|
| 401531852 | FORM 6 INTENT SUBMITTED |
| 401531854 | WELLBORE DIAGRAM |

Total Attach: 2 Files

## General Comments

| User Group | Comment | Comment Date |
|---|---|---|
| Engineer | SB5 L-FH 569-258'<br>WW 540', 42 | 03/22/2018 |
| Public Room | Pass | 02/23/2018 |
| Permit | pass | 02/20/2018 |

Total: 3 comment(s)