

FORM  
6Rev  
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



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Document Number:

400413631

Date Received:

05/07/2013

## 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: Leah Perkins

Name of Operator: NOBLE ENERGY INC

Phone: (970) 304-5222

Address: 1625 BROADWAY STE 2200

Fax: (970) 304-5099

City: DENVER State: CO Zip: 80202

Email: lperkins@nobleenergyinc.com

**For "Intent" 24 hour notice required,**

Name: HICKEY, MIKE

Tel: (970) 302-1024

**COGCC contact:**

Email: mike.hickey@state.co.us

API Number 05-001-06671-00

Well Name: HECKENDORF

Well Number: 2

Location: QtrQtr: SWSW Section: 14 Township: 1S Range: 66W 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: 39.960115

Longitude: -104.748467

GPS Data:

Date of Measurement: 05/07/2010

PDOP Reading: 2.8

GPS Instrument Operator's Name: Paul Tappy

Reason for Abandonment:

☐ Dry☒ Production for Sub-economic☐ Mechanical Problems☐ OtherCasing 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	8054	8064			

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	23	218	200	218	0	VISU
1ST	7+7/8	4+1/2	15.1	8,167	200	8,167	7,470	CALC
S.C. 1.1	7+7/8	4+1/2	15.1	1,338	200	1,338	458	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8004 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 20 sks cmt from 1390 ft. to 1190 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 6470 ft. with 100 sacks. Leave at least 100 ft. in casing 6420 CICR Depth

Perforate and squeeze at 400 ft. with 60 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 \_\_\_\_\_ sacks half in. half out surface casing from \_\_\_\_\_ ft. to \_\_\_\_\_ 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:

Will run CBL to determine actual cement tops.

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

Signed: \_\_\_\_\_ Print Name: Ross Snyder

Title: Base Production Tech Date: 5/7/2013 Email: rsnyder@nobleenergyinc.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: 5/23/2013

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

Expiration Date: 11/22/2013

NOTE CHANGES IN PLUGGING PROCEDURE - changes based on calculated cement tops - run CBL to confirm plugging procedures

- 1) Provide 24 hour notice of MIRU to Mike Hickey at 970-302-1024 or e-mail at Mike.Hickey@state.co.us.
- 2) For 1390' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 1190' or shallower. For 400' plug perforate, pump plug and displace and if not circulated to surface - tag plug must be 150' or shallower. Place 5 sx inside and outside of casing at surface if 400' plug not circulated to surface. Leave at least 100' cement in the casing for each plug.
- 3) Properly abandon flowlines as per Rule 1103.

### Attachment Check List

Att Doc Num	Name
400413631	FORM 6 INTENT SUBMITTED
400414638	WELLBORE DIAGRAM
400414639	PROPOSED PLUGGING PROCEDURE
400414640	WELLBORE DIAGRAM

Total Attach: 4 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	LOCATION: SW1/4 OF SW1/4 OF SEC. 14, T.1s., R.66W. (990 SSL, 990 WSL)  Ground Elevation: 5054 Number of Acres: 160  ELEVATION DEPTH TO ANNUAL ----- NET ----- APPROP STATUS AQUIFER BOT. TOP SAND BOT. TOP A-F ----- UPPER DAWSON ---- - LOWER DAWSON ---- - DENVER 5010 5071 26.2 44 -17 7.12 NNT UPPER ARAPAHOE 4805 4970 32.6 249 84 8.86 NT LOWER ARAPAHOE 4470 4730 102.5 584 324 27.87 NT LARAMIE-FOX HILLS 3839 4062 183.7 1215 992 44.09 NT  note: E indicates location is at aquifer boundary and values may be more approximate. Receipt=0403075, Permit=0197622-- 580'	5/23/2013 5:39:59 PM
Permit	Well completion or recompletion report # 339684 dated 7/24/1973	5/8/2013 8:31:25 AM

Total: 2 comment(s)