

Document Number:  
401122048

Date Received:  
10/05/2016

**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: BEN ZAPP

Name of Operator: NOBLE ENERGY INC Phone: (303) 228-4272

Address: 1625 BROADWAY STE 2200 Fax: \_\_\_\_\_

City: DENVER State: CO Zip: 80202 Email: BEN.ZAPP@NBLENERGY.COM

**For "Intent" 24 hour notice required,** Name: Pesicka, Conor Tel: (970) 415-0789

**COGCC contact:** Email: conor.pesicka@state.co.us

API Number 05-123-14018-00

Well Name: LILLI UNIT Well Number: 8-9

Location: QtrQtr: SENE Section: 9 Township: 8N Range: 58W Meridian: 6

County: WELD Federal, Indian or State Lease Number: C-29692A-ACQ

Field Name: LILLI Field Number: 49970

Notice of Intent to Abandon       Subsequent Report of Abandonment

*Only Complete the Following Background Information for Intent to Abandon*

Latitude: 40.678510 Longitude: -103.861300

GPS Data:  
Date of Measurement: 03/16/2006 PDOP Reading: 6.0 GPS Instrument Operator's Name: ALLISON HAINES

Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other \_\_\_\_\_

Casing to be pulled:  Yes  No Estimated Depth: 1300

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
D SAND	6285	6293			

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	211	130	211	10	VISU
1ST	7+7/8	4+1/2	11.6	6,448	220	6,448	5,678	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6235 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 50 sks cmt from 1350 ft. to 1200 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:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:

Perforate and squeeze at 5490 ft. with 60 sacks. Leave at least 100 ft. in casing 5390 CICR Depth  
Perforate and squeeze at 2500 ft. with 65 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

(Cast Iron Cement Retainer Depth)

Set 150 sacks half in. half out surface casing from 260 ft. to 0 ft. Plug Tagged:

Set 15 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 TECHNICIAN Date: 10/5/2016 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: SUTPHIN, DIRK Date: 11/8/2016

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

Expiration Date: 5/7/2017

<b>COA Type</b>	<b>Description</b>
	<p>Prior to starting plugging operations, perform a Bradenhead Test. If pressure remains at the conclusion of the test or any liquids were present see Sampling Requirements below. Submit Form 17 within 10 days.</p> <p>Sampling requirements:            If a well has a bradenhead pressure greater than 25 PSI and/or flowed liquids from the Bradenhead then sampling is required as follows:            Collect a sample of both the production and bradenhead gas and submit for laboratory analysis of the gas composition and stable isotope analysis including the d13C1, d13C2, d13C3, d13C4, d13NC4 d13C5 , d13NC5, d13C6+ (if possible), and dDC1. Submit analytical results to the COGCC environmental database in an accepted Electronic Data Deliverable (EDD) format.</p> <p>If water is encountered in the bradenhead during testing then collect samples and submit for the laboratory analysis of major anions (chloride, carbonate, bicarbonate, and sulfate), cations (sodium, potassium, calcium, and magnesium) total dissolved solids (TDS), BTEX, DRO, GRO and dissolved gases (RSK 175). If there is a limited amount of water available then anions, cations and BTEX should be given first priority. Data from bradenhead water samples shall be submitted to the COGCC environmental database in an accepted Electronic Data Deliverable (EDD) format.</p>
	<p>Note changes to submitted form. See General Comments.</p> <ol style="list-style-type: none"> <li>1) Provide 48 hour notice of MIRU via electronic Form 42.</li> <li>2) If casing not recovered at 1300' perf &amp; squeeze 50 sks there.</li> <li>3) Shoe plug (Perf &amp; squeeze 50 sx at 260'): Tag plug 50' above surface casing shoe.</li> <li>4) Surface plug: Cement from 50' to surface in casing and annulus.</li> <li>5) Properly abandon flowlines per Rule 1103. File Form 42 when done.</li> <li>6) Abandoned well marker shall be inscribed with the well's legal location, well name and number, and API Number (Rule 319.a.(5)).</li> </ol>

### **Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
401122048	FORM 6 INTENT SUBMITTED
401122074	WELLBORE DIAGRAM
401124168	PROPOSED PLUGGING PROCEDURE
401124169	WELLBORE DIAGRAM

Total Attach: 4 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Engineer	Moved Niobrara plug up to 5490 (50' above NBRR top). Moved the casing cut down to 1300' and added 50 sk cement stub plug. If casing not free perf & squeeze 50 sks there. There is a 1050' deep WW developed in Upper Pierre aquifer within 2 miles located SENE 21-8N-58W, and several more WWS developed in this zone within 4 mile search radius. Made the shoe plug 150 sx at 260'-surface, and 15 sks at surface.	11/08/2016
Public Room	Document verification complete 10/12/16	10/12/2016
Permit	Verified formation and perf interval on Form 5 Well Completion Report (Doc# 267575, 10/21/1988). All required attachments noted.  Permitting review complete.	10/11/2016

Total: 3 comment(s)