

**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.

Document Number:  
400657241

Date Received:  
08/05/2014

OGCC Operator Number: 10439 Contact Name: Cynthia Pinel

Name of Operator: CARRIZO NIOBRARA LLC Phone: (713) 358-6210

Address: 500 DALLAS STREET #2300 Fax: \_\_\_\_\_

City: HOUSTON State: TX Zip: 77002 Email: cynthia.pinel@crzo.net

**For "Intent" 24 hour notice required,** Name: \_\_\_\_\_ Tel: \_\_\_\_\_

**COGCC contact:** Email: \_\_\_\_\_

API Number 05-123-05505-00

Well Name: DUELL Well Number: 3

Location: QtrQtr: NESW Section: 25 Township: 8N Range: 60W Meridian: 6

County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_

Field Name: BUCKINGHAM WEST Field Number: 7572

Notice of Intent to Abandon  Subsequent Report of Abandonment

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

Latitude: 40.631540 Longitude: -104.042110

GPS Data:  
Date of Measurement: 03/11/2014 PDOP Reading: 2.7 GPS Instrument Operator's Name: Eric Purcell

Reason for Abandonment:  Dry  Production for Sub-economic  Mechanical Problems  
 Other Re-enter & Plug

Casing 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
D SAND	6798		05/16/2014		
J SAND	6878		05/16/2014		
NIOBRARA	6070		05/16/2014	CEMENT	

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	28	128	125	128	0	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth \_\_\_\_\_ with \_\_\_\_\_ 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 100 sks cmt from 1099 ft. to 825 ft. Plug Type: OPEN HOLE Plug Tagged:   
 Set 250 sks cmt from 615 ft. to 0 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 \_\_\_\_\_ 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 \_\_\_\_\_ 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: 05/16/2014  
 \*Wireline Contractor: Schneider Energy \*Cementing Contractor: Cementer's Well Service  
 Type of Cement and Additives Used: \_\_\_\_\_  
 Flowline/Pipeline has been abandoned per Rule 1103  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

Carrizo re-entered and plugged the Duell 3 due to an offset well evaluation of our Heberger 2-25-64-8-60 well. this well is within 1500' and required adequate plugging. An as-plugged WBD is attached.

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

Signed: \_\_\_\_\_ Print Name: Cynthia Pinel  
 Title: Regulatory Comp. Analyst Date: 8/5/2014 Email: cynthia.pinel@crzo.net

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: 9/12/2014

**CONDITIONS OF APPROVAL, IF ANY:**

COA Type	Description

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400657241	FORM 6 SUBSEQUENT SUBMITTED
400657262	WELLBORE DIAGRAM
400657263	CEMENT JOB SUMMARY

Total Attach: 3 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	<p>5/15/14: Operator reported that they washed down to 1099' and had a hole in the surface casing around 35', and mud was circulating around the back side. Decided to squeeze cement down the surface casing to seal off the hole, using 60 sacks. After WOC for 4 hours tripped back in the hole to 350', and the casing was leaking again, only this time mud was coming to the surface about 50' from the well. It appears that the surface casing is split and in extremely bad condition, and further attempts to wash down to our original proposed depth would not be safe. Proposed to wash back down to 1000' and set plug #1 from 1000' to 600', and then set plug #2 from 600' to surface. Tag plug #1 before setting plug #2.</p> <p>COGCC: OK, 80 sx at 1000' tag after WOC, cement to surface from 600' as planned. If problems arise before plug #1 at 1000' consider cementing a 5-1/2" liner to +/-200' to get control of the circulation loss. Then proceed with the original plan but with a smaller bit.</p>	9/12/2014 2:29:34 PM
Permit	Reviewed 8/11/14	3/8/2014 2:20:11 PM

Total: 2 comment(s)