

**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:  
 400657543  
 Date Received:  
 08/06/2014

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 05-123-05496-00 Well Number: 1  
 Well Name: DUELL B  
 Location: QtrQtr: SESE Section: 26 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: 40.627970 Longitude: -104.051800  
 GPS Data:  
 Date of Measurement: 03/04/2014 PDOP Reading: 1.9 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
BENTONITE	6677		04/08/2014		
CARLILE	6364		04/08/2014		
D SAND	6784		04/08/2014		
J SAND	6871	6880	04/08/2014		
NIOBRARA	6055		04/08/2014	CEMENT	
SKULL CREEK	6983		04/08/2014		
Total: 6 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	10+5/8	8+5/8	28	124	100	124	0	CALC
1ST	7+3/8	5+1/2	15.5	6,999	150	6,999	5,820	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 5400 ft. to 5100 ft.

Plug Type: OPEN HOLE

Plug Tagged:

Set 350 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: 04/08/2014

\*Wireline Contractor: Schneider Energy

\*Cementing Contractor: Cemente'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 B-1 due to an offset well evaluation of our Hemberger wells in sections 25 (1, 3, 4, 5 & 6) and 26 (1, 2 & 3). This well was within 1500' and required adequate plugging prior to frac operations. 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: 8/6/2014

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

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## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400657543	FORM 6 SUBSEQUENT SUBMITTED
400657548	WELLBORE DIAGRAM
400657549	CEMENT JOB SUMMARY

Total Attach: 3 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)