

**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:  
401473959

Date Received:  
12/01/2017

OGCC Operator Number: 10071 Contact Name: Rachel Milne

Name of Operator: BARRETT CORPORATION\* BILL Phone: (303) 3128115

Address: 1099 18TH ST STE 2300 Fax: \_\_\_\_\_

City: DENVER State: CO Zip: 80202 Email: rmilne@billbarrettcorp.com

**For "Intent" 24 hour notice required,** Name: Montoya, John Tel: (970) 397-4124

**COGCC contact:** Email: john.montoya@state.co.us

API Number 05-123-09256-00

Well Name: CRYSTAL-AMOCO Well Number: 24-5

Location: QtrQtr: SESW Section: 5 Township: 3N Range: 62W Meridian: 6

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

Field Name: MONAHAN LAKES Field Number: 90750

Notice of Intent to Abandon       Subsequent Report of Abandonment

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

Latitude: 40.249589 Longitude: -104.349936

GPS Data:  
Date of Measurement: 11/16/2015 PDOP Reading: 1.3 GPS Instrument Operator's Name: Chad Meiers

Reason for Abandonment:  Dry     Production Sub-economic     Mechanical Problems

Other Offset Well Mitigation

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
J SAND	6845	6883		CEMENT	6845

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	465	310	465	0	VISU
1ST	7+7/8	4+1/2	11.6	6,990	275	6,990	6,730	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 \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
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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 \_\_\_\_\_ 50 sacks. Leave at least 100 ft. in casing \_\_\_\_\_ 2450 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 \_\_\_\_\_ 140 sacks half in. half out surface casing from \_\_\_\_\_ 500 ft. to \_\_\_\_\_ 0 ft. Plug Tagged:

Set \_\_\_\_\_ 25 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. \_\_\_\_\_ inch casing Plugging Date: \_\_\_\_\_  
of \_\_\_\_\_

\*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:

Casing information is historical, no further information is available.

The current and proposed Wellbore Diagrams are included as one attachment.

BBC is submitting this NOI form 6 for the purpose to re-enter and adequately re-plug prior to hydraulic stimulation as agreed in offset well mitigation, option 3. 3 (DJ Basin Horizontal Offset Policy).

As per a conversation between Diana Burn, Heidi Reger, and Matt Barber, attached is copy of an email to Mr. Mike Cervi (surface owner) who provided BBC a verbal approval to proceed re-plugging operations on the UPRR 5-1 (API # 05-123-09735) and the Crystal-Amoco 24-5 (API # 05-123-65212) wells. Since Mr. Cervi did not want to sign an agreement and only provided BBC with a verbal approval to proceed, Diana stated that the COGCC would accept this email verification in lieu of a written SUA.

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

Signed: \_\_\_\_\_ Print Name: Rachel Milne  
Title: Regulatory Analyst Date: 12/1/2017 Email: rmilne@billbarrettcorp.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: McCoy, Diane Date: 12/12/2017

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 6/11/2018

<b>COA Type</b>	<b>Description</b>
	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Submit as-built well location GPS data with the Form 6 Subsequent Report of Abandonment. 3) If a gyro survey is run, submit data with Form 6 Subsequent Report of Abandonment. 4) 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. 5) Leave at least 100' of cement in the wellbore for each plug. 6) If unable to wash down after drilling out plugs previously set stop and contact COGCC engineer for an update to the plugging procedure.

### **Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
401473959	FORM 6 INTENT SUBMITTED
401473993	PROPOSED PLUGGING PROCEDURE
401473994	LOCATION PHOTO
401473996	WELLBORE DIAGRAM
401473997	SURFACE OWNER CONSENT

Total Attach: 5 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Engineer	Increased depth of plug from 400' to 500' based on induction log and data from Denver Basin Aquifer tool.  For plug at 2500', changed plug type from inside casing to a squeeze to have a complete wellbore plug.  Added J-sand perf intervals.	12/12/2017
Permit	Pass.	12/06/2017
Public Room	Well file not found for verification - passed task 12/06/17	12/06/2017

Total: 3 comment(s)