

**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:  
401422411

Date Received:  
10/19/2017

OGCC Operator Number: 10459 Contact Name: Kaleb Roush

Name of Operator: EXTRACTION OIL & GAS INC Phone: (720) 354-4580

Address: 370 17TH STREET SUITE 5300 Fax: \_\_\_\_\_

City: DENVER State: CO Zip: 80202 Email: kroush@extractionog.com

**For "Intent" 24 hour notice required,** Name: Sherman, Susan Tel: (719) 775-1111

**COGCC contact:** Email: susan.sherman@state.co.us

API Number 05-005-06473-00

Well Name: GLADYS CAVANAUGH Well Number: 1

Location: QtrQtr: SENE Section: 21 Township: 4S Range: 64W Meridian: 6

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

Field Name: WILDCAT Field Number: 99999

Notice of Intent to Abandon       Subsequent Report of Abandonment

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

Latitude: 39.690474 Longitude: -104.548899

GPS Data:  
Date of Measurement: \_\_\_\_\_ PDOP Reading: \_\_\_\_\_ GPS Instrument Operator's Name: \_\_\_\_\_

Reason for Abandonment:  Dry     Production Sub-economic     Mechanical Problems

Other Re-enter to re-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: 14 collars of drill pipe, drill bit and broken shoe off fishing tools left downhole by a previous operator

**Current and Previously Abandoned Zones**

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth

Total: 0 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	403	350	403	0	VISU
OPEN HOLE	7+7/8			7,655				

## 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 660 sks cmt from 1875 ft. to 0 ft. Plug Type: OPEN HOLE 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 \_\_\_\_\_ 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. \_\_\_\_\_ 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:

Purpose: Re-entry and adequately re-plug prior to hydraulic stimulation of Extraction's Houlihan pad per HOP  
Closed loop system will be used.  
"Location photo" attachment contains 4 location photos

Need to drill out existing plugs and pump new ones to ensure wellbore integrity and provide adequate aquifer isolation for upcoming, offset hydraulic fracturing.

GPS data will be submitted on the Subsequent Report of Abandonment as per the Intermin Statewide HOP.

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

Signed: \_\_\_\_\_ Print Name: Kaleb Roush  
Title: Production Engineer Date: 10/19/2017 Email: kroush@extractionog.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: 10/27/2017

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 4/26/2018

<b>COA Type</b>	<b>Description</b>
	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) For 1875' plug: pump plug and displace. If surface casing shoe plug not circulated to surface then tag plug – must be 170' or shallower and provide 10 sx plug at the surface.
	Submit as-drilled GPS data on Subsequent Report of Abandonment Form 6. GPS data must meet the requirements of Rule 215.

### **Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
401422411	FORM 6 INTENT SUBMITTED
401422426	WELLBORE DIAGRAM
401422427	WELLBORE DIAGRAM
401435081	SURFACE OWNER CONSENT
401435111	LOCATION PHOTO

Total Attach: 5 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Engineer	Denver 4912 5572 182.6 740 80 49.67 NNT Upper Arapahoe 4669 4862 76.1 983 790 20.71 NT Lower Arapahoe 4373 4594 96.2 1279 1058 26.17 NT Laramie-Fox Hills 3835 4053 150.9 1817 1599 36.22 NT Deepest WW 1346'	10/27/2017
Permit	Verified planned lat/long in wellfile and on COGIS map. As-built lat/long will be submitted on Subsequent Form 6. Verified Form 5 Completion Report (Doc# 407842, 8/4/1981); no perforations indicated. Well never produced; status is DA; no production reporting.  Permitting review complete.	10/24/2017
Public Room	Well file not found for verification - pass task 10/19/17	10/19/2017

Total: 3 comment(s)