

FORM  
6Rev  
05/18

## State of Colorado

## Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

401447613

Date Received:

11/01/2017

## 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: 47120

Contact Name: CHERYL LIGHT

Name of Operator: KERR MCGEE OIL &amp; GAS ONSHORE LP

Phone: (720) 929-6461

Address: P O BOX 173779

Fax: (720) 929-7461

City: DENVER State: CO Zip: 80217-

Email: cheryl.light@anadarko.com

For "Intent" 24 hour notice required,

Name: Gomez, Jason

Tel: (970) 573-1277

COGCC contact:

Email: jason.gomez@state.co.us

API Number 05-123-20692-00

Well Name: ZEHNDER

Well Number: 15-23A

Location: QtrQtr: SWSE Section: 23 Township: 1N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number:

Field Name: WATTENBERG

Field Number: 90750

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

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

Latitude: 40.031010

Longitude: -104.855100

GPS Data:

Date of Measurement: 11/30/2006

PDOP Reading: 3.7

GPS Instrument Operator's Name: Chris Fisher

Reason for Abandonment: ☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes☐ No

Estimated Depth: 1530

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
CODELL	7672	7684			
J SAND	8110	8139			
NIOBRARA	7274	7449			

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	24	938	660	938	0	VISU
1ST	7+7/8	4+1/2	11.6	8,267	260	8,267	6,858	CBL
			Stage Tool	5,028	230	5,034	4,160	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8060 with 2 sacks cmt on top. CIPB #2: Depth 7220 with 25 sacks cmt on top.  
CIBP #3: Depth 4470 with 2 sacks cmt on top. CIPB #4: Depth 500 with 6 sacks cmt on top.  
CIBP #5: Depth 80 with 25 sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 25 sks cmt from 7220 ft. to 6870 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: ☐  
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 350 sacks half in. half out surface casing from 1630 ft. to 888 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 1105 ☐ 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: CHERYL LIGHT  
Title: SR REGULATORY ANALYST Date: 11/1/2017 Email: DJREGULATORY@ANADARKO.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: 5/31/2018

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 11/29/2018

<b>COA Type</b>	<b>Description</b>
	<p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) Properly abandon flowlines per Rule 1105. File electronic Form 42 once abandonment complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line the operator must submit a Flowline Report, Form 44.</p> <p>3) 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.</p> <p>4) Please submit gyro survey data with Form 6 Subsequent Report of Abandonment.</p> <p>5) Production casing stub plug is also surface casing shoe plug, this plug must be tagged at 888' or shallower.</p>
	<p>Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations.</p> <p>1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.</p> <p>If there is a need for sampling, contact COGCC engineering for verification of plugging procedure.</p>

### **Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
401447613	FORM 6 INTENT SUBMITTED
401447618	PROPOSED PLUGGING PROCEDURE
401447619	WELLBORE DIAGRAM

Total Attach: 3 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Engineer	Ensure aquifers are isolated as part of this plugging. DWR's aquifer evaluation tool lists the depth of the Laramie-Fox Hills from 873' to 595' and the Lower Arapahoe from 195' to surface. Deepest water well within one mile = 920'.	05/31/2018
Public Room	Document verification complete 11/17/17	11/17/2017

Total: 2 comment(s)