

FORM  
6Rev  
12/05

## State of Colorado

## Oil and Gas Conservation Commission

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



DE	ET	OE	ES
----	----	----	----

Document Number:

401232306

Date Received:

03/13/2017

## 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 & 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: Carlile, Craig Tel: (970) 629-8279  
 COGCC contact: Email: craig.carlile@state.co.us

API Number 05-123-24910-00 Well Number: 6-35  
 Well Name: ST. ACACIUS  
 Location: QtrQtr: SWNW Section: 35 Township: 3N Range: 68W 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: 40.185564 Longitude: -104.975800  
 GPS Data:  
 Date of Measurement: 10/26/2009 PDOP Reading: 2.2 GPS Instrument Operator's Name: Cody Mattson  
 Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems  
☐ Other \_\_\_\_\_  
 Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 1100  
 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	7438	7458			
NIOBRARA	7181	7316			

Total: 2 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	907	400	907	0	VISU
1ST	7+7/8	4+1/2	11.6	7,602	200	7,602	6,630	CBL
S.C. 1.1				7,602	365	5,250	3,900	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7110 with 30 sacks cmt on top. CIBP #2: Depth 3960 with 2 sacks cmt on top.  
CIBP #3: Depth 80 with 25 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 30 sks cmt from 7110 ft. to 6710 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 200 sacks half in. half out surface casing from 1200 ft. to 857 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. of \_\_\_\_\_ inch casing Plugging Date: \_\_\_\_\_

\*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:

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: 3/13/2017 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: 3/21/2017

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_

Expiration Date: 9/20/2017

<b>COA Type</b>	<b>Description</b>
	<p>1) Due to past bradenhead pressure; prior to plugging, collect bradenhead and production gas samples for laboratory analysis. The gas analysis shall be for composition and stable carbon isotopes. The compositional analysis at a minimum shall include Hydrogen, Argon, Oxygen, Carbon Dioxide, Nitrogen, Methane, Ethene, Ethane, Propene, Propane, Isobutane, Butane, Isopentane, Pentane, Hexanes +, Specific Gravity and British Thermal Units (BTU). Stable carbon isotope analysis shall include delta DC1, delta 13C1, delta 13C2, delta 13C3, delta 13IC4, delta 13NC4, delta 13IC5 (if possible), delta 13NC5 (if possible), delta 13C6+ (if possible) and stable isotopes of CO2 if possible. If liquid is encountered in the bradenhead then collect samples, analysis of the liquid samples shall be conducted to provide an evaluation of the liquid source. Submit for the laboratory analysis of major anions (chloride, carbonate, bicarbonate, and sulfate), cations (sodium, potassium, calcium, and magnesium) total dissolved solids (TDS), BTEX, DRO, GRO and dissolved gasses (RSK 175). If there is a limited amount of water available then anions, cations and BTEX should be given first priority. If sufficient condensate is present to collect a sample then it should be submitted for whole oil by GC analysis or equivalent. The analysis should include the bio-markers Phytane and Pristane. Copies of all final laboratory analytical results shall be provided to the COGCC within three months of collecting the samples in an approved electronic data deliverable format.</p> <p>2) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</p> <p>4) Production casing stub plug is also surface casing shoe plug. After pumping stub/shoe plug, shut down and wait on cement at minimum 4 hours; verify gas migration has been eliminated. If evidence of gas migration or pressure remains contact COGCC Engineer for an update to plugging orders. Plug must be tagged at 857' or shallower. Leave at least 100' cement in the wellbore for each plug.</p>

### **Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
401232306	FORM 6 INTENT SUBMITTED
401232315	PROPOSED PLUGGING PROCEDURE
401232316	WELLBORE DIAGRAM

Total Attach: 3 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Engineer	TOC at 3900', CIBP at 3960'. CIBP should not be placed any shallower than 3960' to ensure there is backside cement.	03/21/2017
Public Room	Document verification complete 03/14/17	03/14/2017

Total: 2 comment(s)