

FORM
6
Rev
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: 401187208			
Date Received: 01/17/2017			

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: Helgeland, Gary Tel: (970) 216-5749
COGCC contact: Email: gary.helgeland@state.co.us

API Number 05-123-29462-00 Well Name: SEC FOUR Well Number: 33-4
 Location: QtrQtr: NESW Section: 4 Township: 1N 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: 40.077764 Longitude: -105.011997
 GPS Data:
 Date of Measurement: 09/08/2009 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: _____
 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	7986	8006			
NIOBRARA	7641	7870			

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	817	478	817	0	VISU
1ST	7+7/8	4+1/2	11.6	8,151	625	8,151	3,650	CBL
S.C. 1.1				3,340	710	3,306	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7590 with 25 sacks cmt on top. CIBP #2: Depth 80 with 7 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 25 sks cmt from 7590 ft. to 7190 ft. Plug Type: CASING Plug Tagged:
Set 50 sks cmt from 5320 ft. to 4441 ft. Plug Type: CASING Plug Tagged:
Set 15 sks cmt from 4255 ft. to 4062 ft. Plug Type: CASING Plug Tagged:
Set 30 sks cmt from 1130 ft. to 767 ft. Plug Type: CASING Plug Tagged:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:

Perforate and squeeze at 4420 ft. with 65 sacks. Leave at least 100 ft. in casing 4255 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 7 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: 1/17/2017 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: 2/7/2017

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 8/6/2017

<u>COA Type</u>	<u>Description</u>
	<p>1) Due to past bradenhead pressure; within 30 days prior to starting plugging operations, a bradenhead test shall be performed. The Form 17 shall be submitted within 10 days of the test. Within six months 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) Leave at least 100' of cement in the wellbore for each plug.</p>
	Past Bradenhead Test Reports indicate there is a possible casing leak or other wellbore integrity issue. This well must be plugged or repaired within six months.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401187208	WELL ABANDONMENT REPORT (INTENT)
401187210	PROPOSED PLUGGING PROCEDURE
401187211	WELLBORE DIAGRAM
401204238	FORM 6 INTENT SUBMITTED

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Form 5 received and passed. Proposed squeeze at a depth where there is possible cement stringers.	02/07/2017
Engineer	On hold- no records of stage cement have been submitted to COGCC. Emailed Operator to request a Form 5 and CBL.	02/06/2017
Public Room	Document verification complete 01/18/17	01/18/2017

Total: 3 comment(s)