

FORM  
6Rev  
12/05State 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:

400822261

Date Received:

04/09/2015

## 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: Carlile, Craig

Tel: (970) 629-8279

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-18117-00

Well Name: HSR-B/R

Well Number: 4-21

Location: QtrQtr: NWNW Section: 21 Township: 3N 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: 40.216760

Longitude: -104.902360

GPS Data:

Date of Measurement: 06/28/2006

PDOP Reading: 2.1

GPS Instrument Operator's Name: Chris Fisher

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

Estimated Depth: 800

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	7064	7071			
NIOBRARA	6853	6855			

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	546	380	546	10	VISU
1ST	7+7/8	4+1/2	11.6	7,210	200	7,210	5,940	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6800 with 30 sacks cmt on top. CIBP #2: Depth 80 with 25 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 30 sks cmt from 6800 ft. to 6360 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 4310 ft. with 165 sacks. Leave at least 100 ft. in casing 3930 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 155 sacks half in. half out surface casing from 900 ft. to 446 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:

1Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call Automation Removal Team at least 24 hr prior to rig move. Request they catch the plunger and isolate production equipment and remove any automation prior to rig MIRU.

2MIRU slickline services. Pull bumper spring and tag bottom. RDMO slickline services.

3Prepare location for base beam equipped rig. Install perimeter fence as needed.

4Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.

5MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt

6POOH and stand back 2-3/8" tbg. (223 jnts landed at 7038').

7MIRU wireline. Run gauge ring for 4-1/2" 11.6# casing to 6800'. PU 4-1/2" CIBP RIH and set at +/- 6740'. POOH and RD wireline. Pressure test CIBP to 1000 psi for 15 min

8Notify Cementers to be on call.

9RIH with 2-3/8" tbg while hydrotesting to 3000 psi and tag CIBP set at 6740'. Record tag depth. Circulate gas out of the hole from just above tag depth.

10MIRU cementers. Pump Nio balanced casing plug: Pump 30 sks (7.4 bbl) of Cement Blend: "G" w/ 20% silica flour , 0.4% CD -32, 0.4% ASA -301 and R-3 to achieve 2:30 pump time mixed at 15.8 ppg and 1.38 cuft/sk designed for coverage above CIBP from 6740' to 6300'.

11PUH 40 jts and circulate hole clean with fresh water and biocide. POOH standing back 125 jt.

12MIRU WL. PU two 3-1/8" perf guns w/ 0.6" diam, 120 phasing and shoot 1' of squeeze holes at 4310' and 2' of squeeze holes at 3900'. RDMO WL.

13PU 4-1/2" CICR on 2-3/8" tbg, RIH and Set CICR at 3930'. Establish circulation through sqz holes.

14RU Cementers. Pump Sussex Suicide plug: Pump 5 bbls fresh water followed by 20 bbls sodium metasilicate followed by 5 bbls fresh water ahead of cement: 165 sks (33.8 bbls) "G" w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 with CaCl2 as necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Underdisplace by 3 bbls and unsting from CICR. Spot final 3 bbls on top of CICR to leave 150' on top of CICR and sqz holes. Volume based on 8-1/2" x 4-1/2" annulus with 20% excess from 4310' to 3900', and 4-1/2" casing from 4310' to 3750'. RD Cementers.

15PUH 6 stands and circulate hole clean with fresh water and biocide. POOH standing back 29 jts.

16MIRU WL. Crack coupling or jet cut 4-1/2" csg at 800'. Circulate approximately 120 bbls of fresh water and biocide to remove any gas from wellbore.

17ND BOP and tubing head. Install a BOP on surface casing head with 4-1/2" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.

18POOH and LD 4-1/2" csg. Remove the 4-1/2" pipe rams and Install 2-3/8" pipe rams.

19RIH w/ 2-3/8" WS open ended ~100' past the 4-1/2" csg stub to 900'.

20MIRU Cementers. Pump Fox Hills Balanced plug: Pump mud flush of 10 bbls SAPP followed by 20 bbls water ahead of 155 sx (36.7 bbls) Type III w/cello flake and CaCl2 as deemed necessary, mixed at 1.33 cf per sack, 14.8 ppg. POH and WOC per cementing company recommendation. Plug size is based on 4-1/2" casing from 900' to 800' and 8-1/2" hole with 20% excess covering 800' to shoe of surface casing at 546' plus capacity of surface casing to 346'. PUH to 300' and Circulate out any excess cmt. TOH and WOC per cement company recommendation.

21RIH and tag top of plug. Plug needs to be tagged at 446' or shallower. POOH and LD 2-3/8" tbg.

22RU wireline. Run and set CIBP in the 8 5/8", 24# surface casing at 80'. PT CIBP and surface casing to 1000 psi for 15 minutes. Assuming successful test, RD wireline. RDMO workover rig.

23Instruct cementing and wireline cont

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: 4/9/2015 Email: cheryl.light@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: SCHLAGENHAUF, MARK Date: 5/22/2015

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 11/21/2015

COA Type	Description
	<p>Note change in plugging procedure:</p> <ol style="list-style-type: none"> <li>1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.</li> <li>2) Change CIBP#1 depth from proposed 6740' to 6800' to meet API guideline of 50-100' over perfs.</li> <li>3) If unable to pull casing contact COGCC for plugging modifications.</li> <li>4) For 900' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 496' or shallower.</li> <li>5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</li> <li>6) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</li> </ol>

## **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400822261	FORM 6 INTENT SUBMITTED
400822271	PROPOSED PLUGGING PROCEDURE
400822272	WELLBORE DIAGRAM

Total Attach: 3 Files

## **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Permitting review complete.	4/14/2015 9:44:00 AM

Total: 1 comment(s)