

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:

400827731

Date Received:

04/20/2015

## 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 05-123-17213-00

Well Name: HSR-BURCHFIELD

Well Number: 11-21

Location: QtrQtr: NESW 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: 40.209600

Longitude: -104.897710

GPS Data:

Date of Measurement: 03/29/2006

PDOP Reading: 2.9

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: 840

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	7065	7083			
J SAND	7494	7532			
NIOBRARA	6849	6866			

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	547	390	547	0	VISU
1ST	7+7/8	4+1/2	11.6	7,203	200	7,203	5,720	CBL
1ST LINER	3+7/8	2+7/8	6.5	7,660	21	7,660	7,143	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7440 with 1 sacks cmt on top. CIPB #2: Depth 6795 with 25 sacks cmt on top.  
CIBP #3: Depth 80 with 25 sacks cmt on top. CIPB #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 6795 ft. to 6400 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 4730 ft. with 180 sacks. Leave at least 100 ft. in casing 4360 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 180 sacks half in. half out surface casing from 940 ft. to 447 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:

5 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt  
6 POOH and stand back 2-3/8" tbg and LD 10 jnts of 1.66". (~228 jnts landed at 7475').  
7 MIRU wireline. Run gauge ring for 2-7/8" 6.5# to 7450'. PU CIBP for 2-7/8" 6.5#, RIH and set at +/- 7440'. Pressure test plug to 1000 psi. RIH and dump bail 1 sk of type G cement on top of CIBP set at 7440'.  
8 Run gauge ring for 4-1/2" 11.6# to 6800'. PU CIBP for 4-1/2" 11.6#, RIH and set at +/- 6795'. Pressure test plug to 1000 psi. POOH and RD wireline  
9 Notify Cementers to be on call.  
10 RIH with 2-3/8" tbg while hydrotesting to 3000 psi and tag CIBP set at 6795'. Record tag depth. Circulate gas out of the hole from just above tag depth.  
11 MIRU cementers. Establish circulation and pump Nio balanced casing plug: Pump 25 sks (6.1 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 6795' to 6400'.  
12 PUH 40 jts and circulate hole clean with fresh water and biocide. POOH standing back ~4630' of tubing.  
13 MIRU WL. PU two 3-1/8" perf guns w/ 0.6" diam, 120 phasing and shoot 1' of squeeze holes at 4730' and 2' of squeeze holes at 4330'. RDMO WL.  
14 PU 4-1/2" CICR on 2-3/8" tbg, RIH and Set CICR at 4360'. Establish circulation through sqz holes.  
15 RU Cementers. Establish circulation and pump Sussex Suicide plug: Pump 5 bbls fresh water followed by 20 bbls sodium metasilicate followed by 5 bbls fresh water ahead of cement: 180 sks (36.8 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 160' on top of CICR and sqz holes. Volume based on 9" x 4-1/2" annulus with 20% excess from 4730' to 4330', and 4-1/2" casing from 4730' to 4200'. RD Cementers.  
16 PUH 6 stands and circulate hole clean with fresh water and biocide. POOH standing ~950' of tubing.  
17 MIRU WL. Crack coupling or jet cut 4-1/2" csg at 840'. Circulate approximately 120 bbls of fresh water and biocide to remove any gas from wellbore.  
18 ND 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.  
19 POOH and LD 4-1/2" csg. Remove the 4-1/2" pipe rams and Install 2-3/8" pipe rams.  
20 RIH w/ 2-3/8" WS open ended ~100' past the 4-1/2" csg stub to 940'.  
21 MIRU Cementers. Establish circulation and pump Fox Hills Balanced plug: Pump mud flush of 10 bbls SAPP followed by 20 bbls water ahead of 180 sx (42.6 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 940' to 840' and 9" hole with 20% excess covering 840' to shoe of surface casing at 547' plus capacity of surface casing to 347'. PUH to 300' and Circulate out any excess cmt. TOH and WOC per cement company recommendation.  
22 RIH and tag top of plug. Plug needs to be tagged at 447' or shallower. POOH and LD 2-3/8" tbg.  
23 RU 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.  
24 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hrs of completion of the job.  
25 Supervisor submit paper copies of all invoices, logs, and reports to Evans Specialist.  
26 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.  
27 Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.  
28 Welder cut casing minimum 5' below ground level.  
29 Fill casing to surface using 4500 psi compressive strength cement, (

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: 4/20/2015 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: SCHLAGENHAUF, MARK Date: 6/11/2015

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 12/10/2015

COA Type	Description
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) If unable to pull casing contact COGCC for plugging modifications. 3) For 940' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 497' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

## Attachment Check List

**Att Doc Num****Name**

400827731	FORM 6 INTENT SUBMITTED
400827740	PROPOSED PLUGGING PROCEDURE
400827741	WELLBORE DIAGRAM

Total Attach: 3 Files

## General Comments

**User Group****Comment****Comment Date**

Permit	Well Completion Report dated 10/18/1993 & 7/31/2003.	4/27/2015 1:59:40 PM
--------	--	-------------------------

Total: 1 comment(s)