

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:

400807496

Date Received:

03/11/2015

## 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 05-123-15692-00

Well Name: FORT SAINT VRAIN

Well Number: 22

Location: QtrQtr: NWSW Section: 10 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: 40.238620

Longitude: -104.884630

GPS Data:

Date of Measurement: 02/28/2007

PDOP Reading: 2.7

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: 770

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	7105	7125			

Total: 1 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	519	240	519	0	VISU
1ST	7+7/8	4+1/2	11.6	7,191	175	7,191	6,360	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7050 with 40 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 40 sks cmt from 7050 ft. to 6430 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 4270 ft. with 350 sacks. Leave at least 100 ft. in casing 3760 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 210 sacks half in. half out surface casing from 870 ft. to 410 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 biocide treated water. NDWH. NUBOP. Unseat landing jt, LD.

6. Notify cementers to be on call. Provide volumes listed below:

6.1 Niobrara plug: 40 sx (55 cu-ft) "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 cu-ft/sk yield. Cement volume based on 620' in 4 1/2" casing.

6.2 Sussex suicide: 350 sx (403 cu-ft) "G" w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cu-ft/sk yield. Cement volume based on 740' in 4 1/2" casing and 540' in a 10" OH with 40% excess. Utilized caliper readings from the offset HSR-Fred Mayer 3-15 well.

6.3 Foxhills plug: 210 sx (279 cu-ft) Type III w/ cello flake and CaCl<sub>2</sub> as necessary, mixed at 14.8 ppg and 1.33 cu-ft/sk. Cement volume based on 100' in 4 1/2" casing, 251' in a 10" OH with 40% excess, and 209' in 8 5/8" casing. Utilized caliper readings from the offset HSR-Fred Mayer 3-15 well.

7. TOOH 2 3/8" tubing landed at 7076'. Stand back 2 3/8" tubing.

8. MIRU WL. RIH gauge ring for 4 1/2" 11.6# casing to 7100'. POOH.

9. PU 4 1/2" 11.6# CIBP and RIH w/ WL. Set at +/- 7050' to abandon Codell perms. PT to 1000 psi for 15 minutes. RDMO WL.

10. RIH with 2 3/8" tubing to +/- 7050', tag CIBP and PUH 5'. Hydrotest tubing to 3000 psi while RIH.

11. RU cementers. Pump Niobrara plug: 40 sx (55 cu-ft) "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 cu-ft/sk yield. Plug to cover 7050' – 6430'.

12. PUH to +/- 6200'. Reverse circulate with biocide treated water to displace cement and clear tubing.

13. POOH. Stand back 3760' of tubing.

14. RU WL. PU 3 1/8" perf guns with 3 spf, 120 degree phasing, 0.50" EHD and RIH w/ WL. Shoot 1' of squeeze holes at 4270' and 2' of squeeze holes at 3730'. RD WL.

15. PU and RIH w/CICR and 2 3/8" tubing, set CICR at +/- 3760'. Establish circulation with rig pump using biocide treated water.

16. RU cementers. Establish circulation with biocide treated water and precede cement with 5 bbl water containing biocide, 20 bbl sodium metasilicate and another 5 bbl water spacer.

17. Pump Sussex suicide: 350 sx (403 cu-ft) "G" w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cu-ft/sk yield to place cement between perms from 4270' to 3730'. Under displace and sting out of CICR to leave 3 bbls (~200') on top of retainer. Cement volume based on 10" OH with 40% excess. Utilized caliper readings from the offset HSR-Fred Mayer 3-15 well. RD cementers.

18. PUH to +/- 3300'. Reverse circulate with biocide treated water to displace cement and clear tubing.

19. POOH. Stand back 870' of tubing.

20. RU WL. Shoot off 4 1/2" casing at or below 770'. RD WL. Circulate casing with biocide treated water to remove any gas.

21. NDBOP, NDTH.

22. Install BOP on casing head with 4 1/2" pipe rams.

23. TOOH 4 1/2" casing, LD.

24. RIH with 2 3/8" tubing to 870' inside 4 1/2" casing.

25. RU cementers. Establish circulation with biocide treated water and precede cement with 10 bbl SAPP and a minimum 20 bbl fresh water spacer.

26. Pump Foxhills plug: 210 sx (279 cu-ft) Type III w/ cello flake and CaCl<sub>2</sub> as necessary, mixed at 14.8 ppg and 1.33 cu-ft/sk yield. Plug to cover 870' – 770' in 4 1/2" casing, 770' – 519' in 10" OH with 40% excess, and 519' – 310' in 8 5/8" casing. Utilized caliper readings from the offset HSR-Fred Mayer 3-15 well. RD cementers.

27. PUH to 100' and circulate with biocide treated water to displace cement and clear tubing.

28. WOC per cement company recommendation. Tag cement at or above 410'. If not, consult with Evans Engineering.

29. RU WL. RIH 8 5/8" 24# CIBP to 80'. Set and pressure test to 1000 psi for 15 minutes. If tests, RDMO WL and WO rig.

30. Instruct cementing and wireline contractors to email copies of all job logs/jobs summaries to rscDJVendors@anadarko.com within 24 hours of completion of the job.

31. Supervisor is to submit paper copies of all invoices, logs,

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: 3/11/2015 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: 4/17/2015

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 10/16/2015

#### 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 870' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 469' 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.
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## Attachment Check List

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

400807496	FORM 6 INTENT SUBMITTED
400807499	PROPOSED PLUGGING PROCEDURE
400807500	WELLBORE DIAGRAM

Total Attach: 3 Files

## General Comments

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

Permit	Well Completion Report dated 6/30/1992.	3/12/2015 10:08:06 AM
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Total: 1 comment(s)