

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:

400869534

Date Received:

07/16/2015

## 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 05-123-19964-00

Well Name: HSR-MILLER

Well Number: 1-26A

Location: QtrQtr: NENE Section: 26 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: 40.201684

Longitude: -104.850572

GPS Data:

Date of Measurement: 06/09/2008

PDOP Reading: 2.7

GPS Instrument Operator's Name: Renee Doiron

Reason for Abandonment:

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

Estimated Depth: 990

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
J SAND	7719	7760			

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	771	690	781	0	CALC
1ST	7+7/8	4+1/2	11.6	7,876	270	7,894	6,500	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7660 with 2 sacks cmt on top. CIPB #2: Depth 80 with 25 sacks cmt on top.  
CIBP #3: Depth \_\_\_\_\_ with \_\_\_\_\_ 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 30 sks cmt from 7020 ft. to 6600 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 4830 ft. with 405 sacks. Leave at least 100 ft. in casing 3990 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 170 sacks half in. half out surface casing from 1090 ft. to 670 ft. Plug Tagged: ☒

Set \_\_\_\_\_ 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:

1 Gyro run 10/27/2014

2 Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6. Submit Form 42 and call Automation Removal Group at least 24 hr prior to rig move. If not already completed, request that they catch and remove plunger, isolate production equipment and remove any automation equipment prior to the rig showing up. Install perimeter fence as needed.

3 Prepare location for base beam rig.

4 Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL. Contact engineer if Bradenhead pressure is greater than 0 psi.

5 Spot 25 jts of 2-3/8" 4.7# J-55 tbg.

6 MIRU WO rig. Attempt to circulate and kill well with fresh water and biocide. If unable to circulate, load csg and tbg with water. ND WH, NU BOP.

7 PU tbg to break any possible sand bridges. Do not exceed 80% of tubing tensile strength, or 57,360 lb. LD landing jt. TOO H with 2-3/8" tbg and LD.

8 Notify cementers of the needed volumes: 30 sx of Thermal 35 cement with 0.5% CFR-2, 0.25% FMC mixed at 15.6 ppg and 1.51 cf/sk (Niobrara plug); 405 sx of 0:1:0 G with 0.5% CFR-2, 0.2% FMC, 0.5% LWA, and 0.25 pps polyflake mixed at 15.8 ppg and 1.15 cf/sk (Sussex suicide sqz); 170 sx of Type III cement with 0.3% CFL-3, 0.3% CFR-2, 0.25 pps polyflake and CaCl<sub>2</sub> mixed at 14.8 ppg and 1.33 cf/sk (FHM stub plug).

9 MIRU WL. RIH gauge ring for 4-1/2" 11.6# csg to 7680'.

10 RIH with 4-1/2" CIBP (4-1/2" 11.6#). Set CIBP at +/- 7660' (Collars at 7652' and 7696') and dump 2 sx of cement on top. Pressure test CIBP to 1000 psi for 15 minutes. If pressure test passes, RDMO WL.

11 RIH with 2-3/8" tbg while hydrotesting to 3000 psi to 7020' and circulate thoroughly to remove gas from hole.

12 MIRU cement company. Spot 30 sx of Thermal 35 cement with 0.5% CFR-2, 0.25% FMC mixed at 15.6 ppg and 1.51 cf/sk (cement from 7020' to 6600' in 4-1/2" csg).

13 PUH to 6400'. Circulate fresh water with biocide to clear tbg.

14 TOO H. Stand back 3990' of 2-3/8" tbg and LD remainder.

15 MIRU WL. PU and RIH with two perf guns and CCL inside 4-1/2" csg (3-1/8", 3 spf, "Big Hole" 0.6" EHD, 7" penetration, 120 deg phasing, 3' net, 6 total holes). Shoot 1' of bottom squeeze holes at 4830'. PUH to 3960' and shoot 2' of top squeeze holes. POOH, RDMO WL.

16 RIH with 4-1/2" CICR (4-1/2" 11.6#) on 2-3/8" tbg and set at +/- 3990'. Establish circulation with fresh water and biocide. If unable to circulate, contact Evans Engineering.

17 MIRU cement company. Pump 5 bbls fresh water, 20 bbls sodium metasilicate, and 5 bbls fresh water followed with 405 sx of 0:1:0 G with 0.5% CFR-2, 0.2% FMC, 0.5% LWA, and 0.25 pps polyflake mixed at 15.8 ppg and 1.15 cf/sk into squeeze holes (cement from 50' below base of Shannon to 200' above top of Sussex, 9.25" avg open hole from caliper, adding 20% excess). Under displace by 3 bbls, sting out of CICR and dump remaining cement on CICR.

18 PUH to 3700' and circulate fresh water with biocide to clear tbg.

19 TOO H. Stand back 1090' of 2-3/8" tbg and LD remainder.

20 MIRU WL. PU jet cutter and RIH to 990', cut 4-1/2" csg. Circulate to remove any gas from wellbore. RDMO WL.

21 ND BOP, ND tbg head. NU BOP on surface csg with 4-1/2" pipe rams. Install 3000 psi ball valves on csg head outlets. Install choke or choke manifold on one outlet.

22 TOO H with 4-1/2" csg and LD.

23 Uninstall 4-1/2" pipe rams on BOP and install 2-3/8" pipe rams.

24 TIH with 2-3/8" tbg to +/- 1090', 100' inside 4-1/2" csg stub.

25 MIRU cement company. Establish circulation with fresh water and biocide and get bottoms up. Pump 10 bbls SAPP, 20 bbls fresh water and biocide followed with 170 sx of Type III cement with 0.3% CFL-3, 0.3% CFR-2, 0.25 pps polyflake and CaCl<sub>2</sub> mixed at 14.8 ppg and 1.33 cf/sk (cement from 1090' to 570' over Fox Hills, assume 9.25" avg hole from SX caliper, adding 40% excess).

SEE REMAINING PROCEDURE IN ATTACHMENTS

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Rebecca Heim

Title: Sr. Regulatory Analyst Date: 7/16/2015 Email: Rebecca.Heim@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: Reeves, Daniel Date: 8/18/2015

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 2/17/2016

**COA Type**

**Description**

	<ol style="list-style-type: none"><li>1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.</li><li>2) If unable to pull casing contact COGCC for plugging modifications.</li><li>3) For 1090' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 721' or shallower.</li><li>4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</li><li>5) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</li></ol>
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## **Attachment Check List**

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

400869534	FORM 6 INTENT SUBMITTED
400869542	WELLBORE DIAGRAM
400869543	PROPOSED PLUGGING PROCEDURE

Total Attach: 3 Files

## **General Comments**

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

Permit	Well Completion Report dated 1/31/2001	7/20/2015 10:35:16 AM
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Total: 1 comment(s)