

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:

401233308

Date Received:

03/17/2017

## 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: 10548

Contact Name: Terry Pape

Name of Operator: HRM RESOURCES II LLC

Phone: (970) 768-5700

Address: 410 17TH STREET #1600

Fax: (303) 893-6892

City: DENVER State: CO Zip: 80202

Email: tpape@hrmres.com

For "Intent" 24 hour notice required,

Name: Schure, Kym

Tel: (970) 520-3832

COGCC contact:

Email: kym.schure@state.co.us

API Number 05-075-05445-00

Well Name: FRASCO

Well Number: 1-B

Location: QtrQtr: NENE Section: 9 Township: 7N Range: 55W Meridian: 6

County: LOGAN

Federal, Indian or State Lease Number:

Field Name: FRASCO

Field Number: 26750

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

## Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.594489

Longitude: -103.527303

GPS Data:

Date of Measurement: 05/15/2009

PDOP Reading: 4.7

GPS Instrument Operator's Name: Joseph Dugan

Reason for Abandonment:

☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ Other

Casing to be pulled:

☒ Yes☐ No

Estimated Depth: 188

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	5499	5508			

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#	138	100	138	0	VISU
1ST	7+7/8	5+1/2	15.5#	5,499	100	5,499	5,249	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 5449 with 2 sacks cmt on top. CIBP #2: Depth \_\_\_\_\_ with \_\_\_\_\_ 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 61 sks cmt from 238 ft. to 0 ft. Plug Type: STUB PLUG 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 4537 ft. with 50 sacks. Leave at least 100 ft. in casing 4487 CICR Depth  
 Perforate and squeeze at 1400 ft. with 40 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 15 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:

Plan to plug well as follows. Plugging to commence as soon as approval granted.  
 1. Check surface annulus for pressure, if present call for orders.  
 2. MIRU P&A equipment, NDWH, NUBOP. Load and circulate wellbore clean  
 3. TOH and tally 2-3/8" tbg, stand back 4,487'  
 4. RU wireline, PU 5-1/2" 15.5# JC/GR, TIH to 5,449', TOH 7. PU 5-1/2" 15.5#, 10K CIBP, TIH and set at 5,449', TOH  
 8. TIH and CDB 2 sx cement on top, TOH  
 9. Load and pressure test csg to 500 psi for 5 min.  
 10. TIH and perforate csg at 4,587' (top of Niobrara), TOH  
 11. PU 5-1/2", 15.5#, 10K CICR, TIH and set at 4,487', TOH, RD wireline  
 12. PU stinger, TIH to 4,487', pressure test csg/CICR to 500 psi for 5 minutes  
 13. Sting into CICR, estab IR into CICR  
 14. Pump 50 sx cement, 40 sx under and 10 sx on top  
 15. TOH and LD to 4,300', reverse circulate tbg clean, TOH  
 16. RU wireline, TIH and cut casing at 188' (50' below surface csg shoe), TOH, RD wireline  
 17. RU csg equip, NDBOP, NDWH. Unland casing, NUWH, NUBOP  
 18. TOH and LD csg, RD csg equip  
 19. TIH to 238' (50' below csg stub, 100' below surf csg shoe), establish circulation to surface  
 20. Pump 61 sx cement to surface  
 21. TOH and LD tbg, RDMO, dig out and cut off wellhead, verify cement at surface, top off if necessary  
 22. Weld info plate onto csg, backfill pit, clean location

All cement to be 15.8# class G neat, 1.15 cu ft/sx yield.

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

Signed: \_\_\_\_\_ Print Name: April Prohaska

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: SUTPHIN, DIRK

Date: 3/27/2017

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 9/26/2017

**COA Type****Description**

	Bradenhead: Prior to initiation of plugging operations, a Bradenhead test shall be performed. Form 17 shall be submitted within 10 days. If there is 25 psi or greater pressure on the Bradenhead, or flowed any liquids from the Bradenhead, collect samples. See COGCC website - Operator Guidance - Bradenhead Testing and Reporting Instructions, Appendix A: Liquid and Gas Sampling.
	Note changes to submitted form. 1) Provide 48 hour notice of MIRU via electronic Form 42. 2) Shoe plug: Tag plug 50' above surface casing shoe, if not circulated to surface. 3) Cement from 50' to surface. 4) Properly abandon flowlines per Rule 1103. File Form 42 when done. 5) Abandoned well marker shall be inscribed with the well identification per Rule 319.a. (5).
	Submit Form 5A to report the well's Shut In status as of January 2015. This Form 5A must be submitted within 30 days for compliance with Rule 308B.
	Submit Form 5 to report squeeze from 3182'-3197' identified on wellbore diagram attached to this Notice of Intent. Include wireline tickets and/or cement tickets. This Form 5 must be submitted within 30 days for compliance with Rule 308A.

**Attachment Check List****Att Doc Num****Name**

401233308	FORM 6 INTENT SUBMITTED
401236104	WELLBORE DIAGRAM
401236107	WELLBORE DIAGRAM

Total Attach: 3 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Plugs: Operator had perf & squeeze at 5487' on form and wellbore diagram. Based on Technical Details they meant 4587' (Niobrara top). Made this 4537' (50' above Niobrara top). WW's w/in 2 miles: include 2 wells > surface casing. Receipt=9045034, SWSE 32-8N-55W, 660' deep Receipt=9043589, SESE 33-8N-55W, 590' deep Offset well 075-05442 e-log shows this aquifer zone extends to 1220'. Therefore added perf & squeeze 40 sks at 1400'.	03/27/2017
Permit	Status active - operator resubmitted form with requested corrections, and agrees to submit Form 5 and Form 5A per COAs.  Permitting review complete.	03/21/2017
Permit	Returned to draft and emailed Operator for corrections and missing documents: - Zones tab J Sand interval top (5449) should be 5499 as noted on Well Completion Report. - Missing required Proposed Wellbore Diagram. - Attached current wellbore diagram lists TD @ 5580'; verify and/or correct TD. - Current wellbore diagram notes 6/1996 sqzd casing leak @ 3182-3197' w/100 sx cement; this should have been reported. Submit a Form 5 to describe this work. - Well status was reported SI via production reporting as of Jan 2015, but no Form 5A was received; submit Form 5A.	03/16/2017
Permit	Verified as-built lat/long on COGIS map.  Verified Well Completion Report (Doc# 209320, 1/14/1963); open hole completion in J Sand from 5499-5508.	03/16/2017
Public Room	Document verification complete 03/15/17	03/15/2017

Total: 5 comment(s)