

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:

401245832

Date Received:

03/28/2017

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: Helgeland, Gary

Tel: (970) 216-5749

COGCC contact:

Email: gary.helgeland@state.co.us

API Number 05-001-06958-00

Well Name: MARTIN

Well Number: 1

Location: QtrQtr: NENW Section: 2 Township: 2S Range: 66W Meridian: 6

County: ADAMS

Federal, Indian or State Lease Number:

Field Name: THIRD CREEK

Field Number: 81800

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.912670

Longitude: -104.745130

GPS Data:

Date of Measurement: 10/02/2006

PDOP Reading: 1.5

GPS Instrument Operator's Name: Brian Brinkman

Reason for Abandonment:

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

Estimated Depth:

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	8248	8294			

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	185	150	185	0	CALC
1ST	7+7/8	4+1/2	10.5 11.6	8,399	150	8,399	7,740	CALC
	7+7/8	4+1/2	Stage Tool	1,530	350	1,530	0	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8198 with 2 sacks cmt on top. CIBP #2: Depth 7077 with 5 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 <u>11</u> sks cmt from <u>1580</u> ft. to <u>1435</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input checked="" type="checkbox"/>
Set <u>10</u> sks cmt from <u>925</u> ft. to <u>794</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>10</u> sks cmt from <u>635</u> ft. to <u>504</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>28</u> sks cmt from <u>368</u> ft. to <u>0</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input checked="" type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

Perforate and squeeze at 7127 ft. with 45 sacks. Leave at least 100 ft. in casing 7077 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 _____ sacks half in. half out surface casing from _____ ft. to _____ 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:

Plan to plug and abandon as follows. Plugging operations to commence as soon as approval granted and rig is available.

1. MIRU P&A equipment, NDWH, NUBOP
2. TOH and tally 2-3/8" tubing, stand back 7,450'
3. RU wireline, PU 4-1/2" 11.6# JC/GR, TIH to 8,198', TOH
4. PU 4-1/2" 11.6#, 10K, CIBP, TIH and set at 8,198', TOH
5. TIH and CDB 2 sxs of 15.8# class G neat 1.15 cu ft/sack yield cement on top, TOH
6. Load and pressure test casing to 500 psi for 5 min. (If press test fails, call Terry Pape and Craig Owen)
7. TIH and run CBL from 8,000' to surface to verify Niobrara annular coverage and DV tool coverage (If TOC is below 7,127' or shows bad annular coverage of Niobrara, perf and squeeze)
8. TIH and perforate casing at 7,127', (300' above top of Niobrara), TOH
9. Establish IR into perforations (if no injection rate, perf at 6,950'), RD wireline
10. PU 4-1/2" 11.6#, 10K, CICR, TIH and set at 7,077', establish IR/circulation
11. Pump 50 sxs of 15.8# class G neat 1.15 cu ft/sx yield cement to cover Niobrara
12. TOH and LD to 1,580' (If CBL shows bad annular coverage of DV tool/water sands, perf and squeeze)
13. Pump 11 sxs of 15.8# class G neat 1.15 cu ft/sx yield cement to cover DV/Laramie Fox Hills
14. TOH and LD to 925'
15. Pump 10 sxs of 15.8# class G neat 1.15 cu ft/sx yield cement to cover Lower Arapahoe
16. TOH and LD to 635'
17. Pump 10 sxs of 15.8# class G neat 1.15 cu ft/sx yield cement to cover Upper Arapahoe
18. TOH and LD to 368', establish circulation to surface
19. Circulate 28 sxs of 15.8# class G neat 1.15 cu ft/sx yield cement to surface to cover Denver/surface shoe
20. TOH and LD tubing, RDMO, dig out and cut off wellhead, verify cement at surface, top off if necessary
21. Weld info plate onto casing, backfill pit, clean location.

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
 Title: Production Tech Date: 3/28/2017 Email: aprohaska@hrmres.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: BURN, DIANA Date: 3/31/2017

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 9/29/2017

COA Type	Description
	<p>NOTE: Changes in plugging procedure. CBL to be run prior to plugging to verify stage tool setting depth and existing coverage - submit to COGCC for verification of plugging orders. Plug listed as CIBP at 7077' is a 5 sx plug on top if the CICR.</p> <p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) For 1580' plug: pump plug and displace - tag plug - must be 1440' or shallower. If surface casing plug is not circulated to surface (and remains), tag plug - must be 135' or shallower and provide 10 sx plug at the surface (inside and outside of casing).</p> <p>3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</p>
	Prior to initiation of plugging operations, a Bradenhead test shall be performed. If there is 25# or greater present at the beginning of the test call COGCC Engineer for possible sampling requirements. Form 17 shall be submitted within 10 days.

Attachment Check List

Att Doc Num	Name
401245832	FORM 6 INTENT SUBMITTED
401245833	WELLBORE DIAGRAM
401245834	WELLBORE DIAGRAM
401245835	CEMENT JOB SUMMARY

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Engineer	Denver 4909 5074 110.3 318 153 30.01 NNT Upper Arapahoe 4652 4884 102.8 575 343 27.97 NNT Lower Arapahoe 4362 4577 111.6 865 650 30.35 NT Laramie-Fox Hills 3736 3979 191.6 1491 1248 45.98 NT Deepest WW	03/31/2017
Public Room	Document verification complete 03/29/17	03/29/2017

Total: 2 comment(s)