FORM 6 Rev 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

Replug By Other Operator

Document Number: 401133937

Date Received: 10/19/2016

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, COGCC contact: Name: Montoya, John Tel: (970) 397-4124 Email: john.montoya@state.co.us

API Number 05-001-07283-00

Well Name: STATE Well Number: 4-30

Location: QtrQtr: NESE Section: 30 Township: 2S Range: 62W Meridian: 6

County: ADAMS Federal, Indian or State Lease Number: 78-3031

Field Name: WARLOCK Field Number: 90695

☒ Notice of Intent to Abandon ☐ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.845370 Longitude: -104.360020

GPS Data:

Date of Measurement: 01/23/2010 PDOP Reading: 1.3 GPS Instrument Operator's Name: Joseph Collins

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 6100

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	7290	7354			

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	10	8+5/8	24	235	180	235	0	VISU
1ST	7+1/2	4+1/2	11.6	7,409	225	7,409	6,273	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7240 with 2 sacks cmt on top. CIPB #2: Depth _____ with _____ 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 50 sks cmt from 6150 ft. to 5944 ft. Plug Type: STUB PLUG Plug Tagged: ☐

Set 40 sks cmt from 1119 ft. to 1016 ft. Plug Type: OPEN HOLE Plug Tagged: ☒

Set 40 sks cmt from 662 ft. to 559 ft. Plug Type: OPEN HOLE 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 _____ 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

Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 125 sacks half in. half out surface casing from 383 ft. to 0 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 well according the to following procedure. Intend to begin plugging operations as soon as approved and rig becomes available.

1. Conduct pre-job safety meeting and complete daily JSA
2. Prior to MIRU, check rig anchors and blow down well/kill if necessary
3. Dig out around wellhead and check surface annulus for pressure
(If present call Terry Pape 970-768-5700 and Craig Owen 970-646-3933 for orders)
4. MIRU P&A equipment, NDWH, NUBOP, TOH and tally 6,150' of tubing to derrick if present (If not present or in bad condition, PU 6,150' of 2-3/8" 4.7# workstring)
5. RU wireline, PU 4-1/2" 11.6# CIBP, TIH to 7,240'and set, TOH
6. TIH and CDB 2 sacks of 15.8# class G neat 1.15 cu.ft./sack yield cement on top, TOH (2 sxs is 25' in 4-1/2", TOC: 7,214')
7. Load wellbore with water, Pressure test casing to 500 psi for 5 minutes (If test fails call Terry Pape and Craig Owen for orders)
8. TIH wireline, Run CBL from 6,600' to surface to verify cement, TOH, RD wireline (Submit CBL to Diana Burn, COGCC, diana.burn@state.co.us)
9. RU casing handling tools, Unland casing, Stretch and determine freepoint
10. RU wireline, TIH and cut casing at freepoint (about 6,100'), TOH, RD wireline
11. TOH and LD casing, RD casing handling tools
12. TIH to 6,150', (50' in stub)
13. Pump 50 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement (4 sxs is 50' in 4-1/2", 46 sxs is 156' in 7-7/8", TOC: 5,944')
14. TOH and LD to 1,119'
15. Pump 30 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement below Fox Hills (30 sxs is 102' in 7-7/8", TOC: 1,016')
16. TOH and LD to 662'
17. Pump 30 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement below Lower Arapahoe (30 sxs is 102' in 7-7/8", TOC: 559')
18. TOH and LD to 383'
19. Pump 125 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement to surface
20. TOH and LD tubing, Dig up wellhead and cut off 3' below restored ground level, top off if necessary
21. Weld on cap with ID plate, backfill, 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: 10/19/2016 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: 1/11/2017

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 7/10/2017

COA Type	Description
	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 depth changed and cement quantity adjusted. 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) For 1119' plug: pump plug and displace - tag plug – must be 1020' or shallower. If surface casing plug is not circulated to surface - must be tagged - must be 185' or shallower and provide 10 sx plug at the surface (inside and outside of casing). 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.
	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
401133937	FORM 6 INTENT SUBMITTED
401133938	WELLBORE DIAGRAM
401133939	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	Denver 5138 5191 44.9 83 30 12.21 NNT Upper Arapahoe 4888 5115 61.7 333 106 16.79 NNT Lower Arapahoe 4609 4813 71.4 612 408 19.42 NT Laramie-Fox Hills 4152 4345 98.8 1069 876 23.70 NT DIL 1060' + 50' Deepest WW 365'	11/03/2016
Public Room	Document verification complete 10/20/16	10/20/2016

Total: 2 comment(s)