

DE	ET	OE	ES
----	----	----	----

**Replug By Other Operator**

Document Number:  
401133907

Date Received:

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

API Number 05-001-06698-00  
 Well Name: STATE Well Number: 1-30  
 Location: QtrQtr: SWSW Section: 30 Township: 2S Range: 62W Meridian: 6  
 County: ADAMS Federal, Indian or State Lease Number: OG 68/5575 S  
 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: 39.841590 Longitude: -104.374040  
 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: \_\_\_\_\_  
 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	7438	7459	03/19/2015	B PLUG CEMENT TOP	7344
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+1/4	8+5/8	20	212	110	212	0	VISU
1ST	7+7/8	4+1/2	10.5, 11	7,536	125	7,536	6,273	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth \_\_\_\_\_ with \_\_\_\_\_ 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 10 sks cmt from 6628 ft. to 6497 ft. Plug Type: CASING Plug Tagged:   
Set 10 sks cmt from 1234 ft. to 1103 ft. Plug Type: CASING Plug Tagged:   
Set 10 sks cmt from 980 ft. to 848 ft. Plug Type: CASING Plug Tagged:   
Set 10 sks cmt from 470 ft. to 338 ft. Plug Type: CASING 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 85 sacks half in. half out surface casing from 262 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 and abandon with the following procedure. Plugging operations to begin as soon as approval granted and a 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 6,628' of tubing to derrick if present (If not present or in bad condition, PU 6,628' of 2-3/8" 4.7# workstring)
5. Load wellbore with water, Pressure test casing to 500 psi for 5 minutes (If test fails call Terry Pape and Craig Owen for orders)
6. TIH and run CBL from 7,200' to surface to verify cement, TOH, RD wireline (Submit CBL to Diana Burn, COGCC, diana.burn@state.co.us)
7. TIH to 6,628', (50' below Niobrara top)
8. Pump 10 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement to isolate Niobrara (10 sxs is 131' in 4-1/2", TOC: 6,497')
9. TOH and LD to 1,234'
10. Pump 10 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement below Fox Hills (10 sxs is 131' in 4-1/2", TOC: 1,103')
11. TOH and LD to 980'
12. Pump 10 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement below Lower Arapahoe (10 sxs is 131' in 4-1/2", TOC: 848')
13. TOH and LD to 470'
14. Pump 10 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement below Upper Arapahoe (10 sxs is 102' in 4-1/2", TOC: 338')
15. TOH and LD tubing
16. RU wireline, TIH and perforate casing at 262', RD wireline
17. Establish circulation to surface via perforations
18. Circulate 85 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement to surface
19. Dig up wellhead and cut off 3' below restored ground level, top off if necessary
20. 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: \_\_\_\_\_ 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: \_\_\_\_\_ Date: \_\_\_\_\_

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: \_\_\_\_\_

<u>COA Type</u>	<u>Description</u>

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
401133914	WELLBORE DIAGRAM
401133916	WELLBORE DIAGRAM

Total Attach: 2 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)