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**Replug By Other Operator**  
 Document Number:  
 402674267  
 Date Received:  
 04/28/2021

**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: 10670 Contact Name: Erin Mathews  
 Name of Operator: MALLARD EXPLORATION LLC Phone: (720) 543-7959  
 Address: 1400 16TH STREET SUITE 300 Fax: \_\_\_\_\_  
 City: DENVER State: CO Zip: 80202 Email: emathews@mallardexploration.com  
**For "Intent" 24 hour notice required,** Name: Petrie, Erica Tel: (303) 726-3822  
**COGCC contact:** Email: erica.petrie@state.co.us

Type of Well Abandonment Report:  Notice of Intent to Abandon  Subsequent Report of Abandonment

API Number 05-123-05510-00  
 Well Name: DOTY-FEDERAL Well Number: 1-B  
 Location: QtrQtr: SENW Section: 27 Township: 8N Range: 60W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_  
 Field Name: CROW Field Number: 13600

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

Latitude: 40.635118 Longitude: -104.080179  
 GPS Data: GPS Quality Value: 1.5 Type of GPS Quality Value: PDOP Date of Measurement: 02/11/2021  
 Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other Offset to upcoming HZ development  
 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

Total: 0 zone(s)

**Casing History**

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	J55	24	0	233	130	233	0	VISU
OPEN HOLE	7+7/8					7007				

## 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 100 sks cmt from 7000 ft. to 6800 ft. Plug Type: OPEN HOLE Plug Tagged:   
Set 118 sks cmt from 6200 ft. to 5950 ft. Plug Type: OPEN HOLE Plug Tagged:   
Set 85 sks cmt from 2500 ft. to 2300 ft. Plug Type: OPEN HOLE Plug Tagged:   
Set 172 sks cmt from 1380 ft. to 930 ft. Plug Type: OPEN HOLE 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 250 sacks half in. half out surface casing from 650 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 Number of Days from Setting Surface Plug to Capping or Sealing the Well: \_\_\_\_\_  
Surface Plug Setting Date: \_\_\_\_\_ Cut and Cap Date: \_\_\_\_\_

\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used: \_\_\_\_\_

Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

Technical Detail/Comments:

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

Signed: \_\_\_\_\_ Print Name: Taylor Heffner

Title: Mallard Contractor Date: 4/28/2021 Email: theffner@phxresources.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: Wolfe, Stephen Date: 5/12/2021

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 11/11/2021

## Condition of Approval

### COA Type

### Description

	<p>Plugging</p> <ol style="list-style-type: none"> <li>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</li> <li>2) Contact COGCC Area Inspector prior to commencing plugging operations.</li> <li>3) Plugs and squeezes will be placed as stated in the Plugging Procedure section of the approved NOIA unless revised by COA or prior approval from COGCC is obtained.</li> <li>4) The wellbore must be static prior to placing cement plugs which are to be a minimum of 100' in length for all but surface plugs. Mechanical isolation requires a 25' cement plug, minimum. For plugs not specified to be tagged, a tag is required if circulation is not maintained while pumping plug and displacing to depth. Tag at tops specified or shallower. Notify COGCC Area Engineer before adding cement to previous plug.</li> <li>5) Place a 50' plug (minimum) at the surface, both inside the inner most casing and in all annular spaces. Surface plugs shall be circulated to surface. Confirm cement to surface in all strings during cut and cap.</li> <li>6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</li> <li>7) No current Form 17 on file with COGCC. Contact COGCC area engineer with results of pre-plugging bradenhead test for confirmation of plugging procedure prior to commencing plugging operations.</li> <li>8) After placing the shallowest hydrocarbon isolating plug (6200-5950'), operator must wait a sufficient time on all subsequent plugs to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC Area Engineer before continuing operations.</li> <li>9) Move the 85 sx open hole plug from 3500-3300' to 2500-2300'. WOC and tag.</li> <li>10) Increase the shoe plug to 650-0', adjust cement volume accordingly. Tag required if cement does not circulate to surface, contact COGCC Area Engineer.</li> </ol>
	Operator will implement measures to capture, combust, or control emissions to protect health and safety, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public health, welfare, and the environment.
2 COAs	

## Attachment List

### Att Doc Num

### Name

402674267	FORM 6 INTENT SUBMITTED
402674344	WELLBORE DIAGRAM
402674345	WELLBORE DIAGRAM
402674348	PROPOSED PLUGGING PROCEDURE
402674351	LOCATION PHOTO

Total Attach: 5 Files

## General Comments

### User Group

### Comment

### Comment Date

Engineer	Groundwater: Laramie-Fox Hills, Upper Pierre Deepest Water Well: 348' (5 well - 1 mi), 420' (12 wells - 2 mi) Logs: 123-06118 9/16/66 GR=4926 L-FH 136-532' UPA 842-1530'	05/11/2021
Permit	-Confirmed as-drilled well location. -No other forms in process. -Reviewed attachments. -Pass.	05/04/2021

Total: 2 comment(s)