

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.

Document Number:
 403135260
 Date Received:
 08/15/2022

OGCC Operator Number: 10670 Contact Name: Carl Enright
 Name of Operator: MALLARD EXPLORATION LLC Phone: (720) 543-7967
 Address: 1400 16TH STREET SUITE 300 Fax: _____
 City: DENVER State: CO Zip: 80202 Email: cenright@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 05-123-22078-00 Well Number: 35-11
 Well Name: FEDERAL MYNA
 Location: QtrQtr: NESW Section: 35 Township: 8N Range: 60W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: COC60697
 Field Name: CROW Field Number: 13600

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.617753 Longitude: -104.061463
 GPS Data: GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 07/20/2022

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	411	290	411	0	VISU
OPEN HOLE	7+7/8				0	7015				

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 40 sks cmt from 6863 ft. to 6723 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 30 sks cmt from 3012 ft. to 2872 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 55 sks cmt from 2870 ft. to 2720 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 45 sks cmt from 1550 ft. to 1440 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 232 sacks half in. half out surface casing from 650 ft. to 0 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 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:

COGCC: Open plugs at 6863-6723' and 3012-2872' to remain as part of the plugging.

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: 8/15/2022 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: 10/6/2022

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 4/5/2023

COA Type	Description
	<p>Plugging</p> <p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) 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.</p> <p>3) 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.</p> <p>4) 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.</p> <p>5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</p> <p>6) Plugging procedure as follows, Plug #1 - 6963-6723', Original 40 sx open hole plug to remain. Plug #2 - 3012-2872', Original 30 sx open hole plug, tag and verify. If original plug is not there, spot 70 sx at 3012', WOC and tag at 2912' or higher. Proceed to Plug #4. Plug #3 - 2870-2720', 55 sx open hole plug to be added to original Plug #2 if tagged. WOC and tag. Plug #4 - 1550-1440', 45 sx open hole plug. WOC and tag. Plug #5 - 650-0', 232 sx shoe/surf plug to be circulated to the surface. Tag required if cement does not circulate to the surface and remain there. Plug #6 - 50-0', 15 sx, see COA #5.</p>
	Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.
2 COAs	

Attachment List

Att Doc Num	Name
403135260	FORM 6 INTENT SUBMITTED
403135266	WELLBORE DIAGRAM
403135267	WELLBORE DIAGRAM
403135268	SURFACE OWNER CONSENT
403135269	LOCATION PHOTO

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
Engineer	Groundwater: Laramie-Fox Hills, Upper Pierre Deepest water well: 450'(2mi, 14 wells) Log: 123-22078 3/23/2005 GR 4908' L-FH base 555', UP 810-1480'	10/06/2022
Engineer	Open plugs at 6863-6723' and 3012-2872' to remain as part of the plugging.	09/12/2022
OGLA	OGLA review is complete.	08/24/2022
OGLA	Well is in a CPW mapped Pronghorn Winter Concentration Area High Priority Habitat. Although plugging and abandonment operations with heavy equipment will be allowed, the operator is strongly encouraged to avoid them from January 1 through April 30.	08/24/2022
Permit	Operator submitted form 6 with updated GPS data No production or zone information to review Passed Permit Review	08/19/2022

Total: 5 comment(s)