FORM 6 Rev 11/20

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: 402542953

Date Received: 12/01/2020

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, COGCC contact: Name: Petrie, Erica Tel: (303) 726-3822 Email: erica.petrie@state.co.us

Type of Well Abandonment Report: [x] Notice of Intent to Abandon [ ] Subsequent Report of Abandonment

API Number 05-123-07357-00

Well Name: BUCHER-STATE Well Number: 1

Location: QtrQtr: SWSE Section: 16 Township: 8N Range: 60W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 69/6383-S

Field Name: WILDCAT Field Number: 99999

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.656815 Longitude: -104.093842

GPS Data: GPS Quality Value: 1.9 Type of GPS Quality Value: PDOP Date of Measurement: 11/20/2020

Reason for Abandonment: [ ] Dry [ ] Production Sub-economic [ ] Mechanical Problems

[x] Other Offset to proposed Mallard HZ development

Casing to be pulled: [ ] Yes [x] No Estimated Depth:

Fish in Hole: [ ] Yes [x] No If yes, explain details below

Wellbore has Uncemented Casing leaks: [ ] Yes [x] 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		107	80	107	0	VISU
OPEN HOLE	7+7/8					7140				

Subsurface hazards include, but are not limited to, the following: overpressured zones, underpressured zones, major geologic faults, salt sections, H2S at concentrations greater than or equal to 100 ppm.

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ 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 85 sks cmt from 6200 ft. to 6000 ft. Plug Type: OPEN HOLE Plug Tagged: ☒

Set 85 sks cmt from 1850 ft. to 1650 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: ☐

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 310 sacks half in. half out surface casing from 700 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

Surface Plug Setting Date: _____ Cut and Cap Date: _____ Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____

*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: 12/1/2020 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: 12/31/2020

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 6/29/2021

COA Type	Description
	Venting 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.
	Plugging 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 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. 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. 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. 5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed. 6) Contact COGCC Area Inspector prior to commencing plugging operations. 7) After placing the shallowest hydrocarbon isolating plug (6200-6000'), 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. 8) Move the 85 sx open hole plug from 1200-1000' to 1850-1650'. 9) Increase shoe cement plug to 700-0', adjust cement volume accordingly. Tag required if cement does not circulate to surface, contact COGCC Area Engineer.
	Submit “as drilled” GPS data on Subsequent Report of Abandonment. GPS data must meet the requirements of Rule 215.

Attachment List

Att Doc Num	Name
402542953	FORM 6 INTENT SUBMITTED
402542968	WELLBORE DIAGRAM
402542973	WELLBORE DIAGRAM
402542975	LOCATION PHOTO
402543357	SURFACE OWNER CONSENT

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
Engineer	Deepest water well: 180' (3 wells - 1 mile), 348' (23 wels - 2 mile) L-FH base: 620' Upper Pierre base: 1630'	12/31/2020
Permit	Reviewed attachments. Pass.	12/30/2020

Total: 2 comment(s)