

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



| | | | |
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| DE | ET | OE | ES |
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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 developmentCasing to be pulled: ☐ Yes ☒ No Estimated Depth:Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore 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: | <input type="checkbox"/> |
| Set | 118 | sks cmt from | 6200 | ft. to | 5950 | ft. | Plug Type: | OPEN HOLE | Plug Tagged: | <input checked="" type="checkbox"/> |
| Set | 85 | sks cmt from | 2500 | ft. to | 2300 | ft. | Plug Type: | OPEN HOLE | Plug Tagged: | <input checked="" type="checkbox"/> |
| Set | 172 | sks cmt from | 1380 | ft. to | 930 | ft. | Plug Type: | OPEN HOLE | Plug Tagged: | <input checked="" type="checkbox"/> |
| Set | _____ | sks cmt from | _____ | ft. to | _____ | ft. | Plug Type: | _____ | Plug Tagged: | <input type="checkbox"/> |

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

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: 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> <p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) Contact COGCC Area Inspector prior to commencing plugging operations.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</p> <p>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.</p> <p>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.</p> <p>9) Move the 85 sx open hole plug from 3500-3300' to 2500-2300'. WOC and tag.</p> <p>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.</p> |
| | 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)