

FORM  
2

Rev  
02/20

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

402473610

(SUBMITTED)

Date Received:

APPLICATION FOR PERMIT TO:

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and Operate

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER: \_\_\_\_\_

Refilling ☒

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: Canvasback

Well Number: 32-33-6HC

Name of Operator: MALLARD EXPLORATION LLC

COGCC Operator Number: 10670

Address: 1400 16TH STREET SUITE 300

City: DENVER

State: CO

Zip: 80202

Contact Name: Erin Mathews

Phone: (720)5437951

Fax: ( )

Email: emathews@mallardexploration.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20170115

WELL LOCATION INFORMATION

QtrQtr: SWNW Sec: 32 Twp: 9N Rng: 60W Meridian: 6

Latitude: 40.707664

Longitude: -104.123779

Footage at Surface: 1898 Feet FNL/FSL FNL 645 Feet FEL/FWL FWL

Field Name: WILDCAT

Field Number: 99999

Ground Elevation: 4946

County: WELD

GPS Data: GPS Quality Value: 1.4 Type of GPS Quality Value: PDOP Date of Measurement: 04/26/2018

Instrument Operator's Name: Brian Hopkinson

If well is ☐ Directional ☒ Horizontal (highly deviated) submit deviated drilling plan.

Footage at Top of Prod Zone: FNL/FSL FNL/FWL Bottom Hole: FNL/FSL FNL/FWL  
1472 FSL 300 FWL 1472 FSL 300 FEL

Sec: 32 Twp: 9N Rng: 60W Sec: 33 Twp: 9N Rng: 60W

LOCAL GOVERNMENT INFORMATION

County: WELD

Municipality: N/A

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "local government with jurisdiction to approve the siting of the proposed oil and gas location."

The local government with jurisdiction is: County

Does the local government with jurisdiction regulate the siting of Oil and Gas Locations, with respect to this location? If the local government does regulate the siting, but has waived its right to precede the COGCC in siting determination, indicate by selecting "YES" here and selecting "Waived" for the disposition below. ☒ Yes ☐ No

If yes, in checking this box, I hereby certify that an application has been filed with the local government with jurisdiction to approve the siting of the proposed oil and gas location. ☒

The local government siting permit type is: 1041 WOGLA

The local government siting permit was filed on: 12/03/2018

The disposition of the application filed with the local government is: Approved

Additional explanation of local process:

WOGLA18-0176 submitted 12/3/2018, Approved 1/11/2019. WOGLA Sundry submitted 9/9/2020.

## LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT

Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian

The Surface Owner is: ☒ is the mineral owner beneath the location.

(check all that apply)

☒ is committed to an Oil and Gas Lease.

☒ has signed the Oil and Gas Lease.

☐ is the applicant.

The Mineral Owner beneath this Oil and Gas Location is: ☒ Fee ☐ State ☐ Federal ☐ Indian

The Minerals beneath this Oil and Gas Location will be developed by this Well: Yes

The right to construct the Oil and Gas Location is granted by: Surface Use Agreement

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

## LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

W/2, Sec 32, T9N, R60W

Total Acres in Described Lease: 320 Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # \_\_\_\_\_

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 0 Feet

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

|                                   |                  |
|-----------------------------------|------------------|
| Building:                         | <u>5280</u> Feet |
| Building Unit:                    | <u>5280</u> Feet |
| High Occupancy Building Unit:     | <u>5280</u> Feet |
| Designated Outside Activity Area: | <u>5280</u> Feet |
| Public Road:                      | <u>1894</u> Feet |
| Above Ground Utility:             | <u>2435</u> Feet |
| Railroad:                         | <u>5280</u> Feet |
| Property Line:                    | <u>645</u> Feet  |
| School Facility:                  | <u>5280</u> Feet |
| School Property Line:             | <u>5280</u> Feet |
| Child Care Center:                | <u>5280</u> Feet |

### INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, Designated Outside Activity Area, School Facility, and Child Care Center – as defined in 100 Series Rules.

## DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: ☐ Buffer Zone  
☐ Exception Zone  
☐ Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit  
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.  
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: \_\_\_\_\_

## SPACING and UNIT INFORMATION

Distance from completed portion of proposed wellbore to nearest completed portion of offset wellbore permitted or completed in the same formation: 540 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 300 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

## SPACING & FORMATIONS COMMENTS

If this Form 2 is associated with a Drilling and Spacing Unit application, provide docket number: \_\_\_\_\_

## OBJECTIVE FORMATIONS

| Objective Formation(s) | Formation Code | Spacing Order Number(s) | Unit Acreage Assigned to Well | Unit Configuration (N/2, SE/4, etc.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| CODELL                 | CODL           | 535-1307                | 1280                          | 32,33: All                           |

## DRILLING PROGRAM

Proposed Total Measured Depth: 17280 Feet

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells:

Enter distance if less than or equal to 1,500 feet: 205 Feet ☐ No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H<sub>2</sub>S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? Yes

BOP Equipment Type: ☒ Annular Preventor ☒ Double Ram ☒ Rotating Head ☐ None

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? \_\_\_\_\_

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

## CASING PROGRAM

| Casing Type | Size of Hole | Size of Casing | Wt/Ft | Csg/Liner Top | Setting Depth | Sacks Cmt | Cmt Btm | Cmt Top |
|-------------|--------------|----------------|-------|---------------|---------------|-----------|---------|---------|
| CONDUCTOR   | 26           | 16             | 43    | 0             | 80            | 50        | 80      | 0       |
| SURF        | 13+1/2       | 9+5/8          | 36    | 0             | 1650          | 575       | 1650    | 0       |
| 1ST         | 8+1/2        | 5+1/2          | 20    | 0             | 17280         | 2450      | 17280   |         |

☐ Conductor Casing is NOT planned

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- ☐ Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- ☐ Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- ☐ Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- ☐ Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

## GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 318A.a. Exception Location (GWA Windows).
- ☐ Rule 318A.c. Exception Location (GWA Twinning).

## RULE 502.b VARIANCE REQUEST

- ☐ Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

## OTHER LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 318.c. Exception Location from Rule or Spacing Order Number \_\_\_\_\_
- ☐ Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## OPERATOR COMMENTS AND SUBMITTAL

Comments

This Form 2 is being submitted as a refile of API 05-123-49658.

This location is being amended to move north of the currently permitted location to avoid the cultural resources found during the archaeological survey of the original pad. The revised location is within the same parcel.

The CB 2 (API: 05-123-49654), CB 3 (API: 05-123-49659), CB 4 (API: 05-123-49660), CB 5 (API: 05-123-49653), CB 6 (API: 05-123-49652), and CB 7 (API: 05-123-49656) are being abandoned from this location, along with the Golden Cascade Pad (Loc ID 463726) and its associated Golden Cascade 33-1HC (API: 05-123-50064), Golden Cascade 33-2HN (API: 05-123-50058), Golden Cascade 33-3HN (API: 05-123-50061), Golden Cascade 33-4HC (API: 05-123-50053), Golden Cascade 33-5HN (API: 05-123-50056), Golden Cascade 33-6HN (API: 05-123-50052), Golden Cascade 33-7HN (API: 05-123-50051), Golden Cascade 33-8HN (API: 05-123-50054), Golden Cascade Fed 33-9HC (API: 05-123-50059), Golden Cascade Fed 33-10HN (API: 05-123-50060), Golden Cascade Fed 33-11HN (API: 05-123-50062), Golden Cascade Fed 33-12HN (API: 05-123-50063), Golden Cascade Fed 33-13HC (API: 05-123-50057), and Golden Cascade Fed 33-14HN (API: 05-123-50055).

The Form 2 for the GC Fed 1 (Doc #401847397) currently in process will be withdrawn.

The well formerly known as CB 1 (API: 05-123-49661) will move SHL along with being extended and respaced across Sections 32 and 33 as the Canvasback Fed 32-33-1HC.

The laterals for the Canvasback 32-1HC (API: 05-123-49655) – now Canvasback Fed 32-33-2HN, Canvasback 32-2HN (API: 05-123-49657) – now Canvasback Fed 32-33-3HN, Canvasback 32-3HN (API: 05-123-49651) – now Canvasback Fed 32-33-4HN, Canvasback 32-4HN (API: 05-123-49662) – now Canvasback 32-33-5HN, Canvasback 32-5HN (API: 05-123-49658) – now Canvasback 32-33-6HC, Canvasback 32-6HN (API: 05-123-49649) – now Canvasback 32-33-7HN, and Canvasback 32-7HC (API: 05-123-49650) – now Canvasback 32-33-8HN are being extended and respaced across Sections 32 and 33 with revised names, TPZ, and BHL.

There have been no new buildings constructed and no changes to the surrounding land use and mineral lease description. Well site has not yet been constructed. This location is not in a buffer or exception zone, so no notices are required under Rule 305. All previously submitted notices, Surface Use Agreements, and letters are also still valid.

Nearest well in unit per anti-collision is the Canvasback 32-33-7HN.

Nearest outside operated well per anti-collision is the Shable Federal LB33-78HN API 05-123-36799 PR status.

This application is in a Comprehensive Drilling Plan No CDP #: \_\_\_\_\_

Location ID: 461821

Is this application being submitted with an Oil and Gas Location Assessment application? Yes

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

Signed: \_\_\_\_\_ Print Name: Justin Garrett

Title: Regulatory Analyst Date: \_\_\_\_\_ Email: regulatory@ascentgeomatics.c

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

**API NUMBER**

05 123 49658 00

## Conditions Of Approval

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

### COA Type

### Description

## Best Management Practices

### No BMP/COA Type

### Description

|   |                                |   |
|---|--------------------------------|---|
| 1 | Drilling/Completion Operations | Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.   |
| 2 | Drilling/Completion Operations | 317.p One of the first wells drilled on the pad will be logged with open-hole Resistivity Log and Gamma Ray Log from kick-off point into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on production casing (or on intermediate casing if production liner is run) into the surface casing. The horizontal portion of every well will be logged with a measured-while-drilling gamma-ray log. The Form 5, Completion Report, for each well on the pad will list all the logs run and have those logs attached. The Form 5 for a well without open-hole logs shall clearly state "No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which open-hole logs were run). |
| 3 | Drilling/Completion Operations | Blowout Prevention Equipment ("BOPE"): A double ram annular preventer will be used during drilling.   |

Total: 3 comment(s)

## Attachment Check List

### Att Doc Num

### Name

|           |                            |
|-----------|----------------------------|
| 402474025 | WELL LOCATION PLAT         |
| 402475436 | DIRECTIONAL DATA           |
| 402475437 | DEVIATED DRILLING PLAN     |
| 402476197 | OffsetWellEvaluations Data |
| 402476198 | SURFACE AGRMT/SURETY       |

Total Attach: 5 Files

## General Comments

### User Group

### Comment

### Comment Date

|  |  |                     |
|--|--|---------------------|
|  |  | Stamp Upon Approval |
|--|--|---------------------|

Total: 0 comment(s)

## **Public Comments**

No public comments were received on this application during the comment period.

