

FORM  
2

Rev  
08/13

## 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:

400682928

#### APPLICATION FOR PERMIT TO:

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

Date Received:

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

Refilling ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: NORTHWEST ARAPAHOE UNIT (NWAU)

Well Number: 38

Name of Operator: MULL DRILLING COMPANY INC

COGCC Operator Number: 61250

Address: 1700 N WATERFRONT PKWY B#1200

City: WICHITA

State: KS

Zip: 67206-6637

Contact Name: MARK SHREVE

Phone: (316)264-6366

Fax: (316)264-64440

Email: MSHREVE@MULLDRILLING.COM

#### RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20000063

#### WELL LOCATION INFORMATION

QtrQtr: NWSW Sec: 25 Twp: 13S Rng: 43W Meridian: 6

Latitude: 38.891760

Longitude: -102.181870

Footage at Surface: 2070 feet FNL/FSL FSL 659 feet FEL/FWL FWL

Field Name: ARAPAHOE

Field Number: 2875

Ground Elevation: 3988

County: CHEYENNE

GPS Data:

Date of Measurement: 08/27/2014 PDOP Reading: 1.8 Instrument Operator's Name: ELIJAH FRANE

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

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

Sec: Twp: Rng: Sec: Twp: Rng:

#### 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: Bond

Surface damage assurance if no agreement is in place: Blanket

Surface Surety ID: 20010165

## 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.)

S/2 S/2 28, W/2 NW/4, SW/4 & W/2 SE/4 30, 31, 32, W/2 SW/4 & N/2 33, T13S-R42W  
E/2 23, W/2 24, 25, E/2 E/2 26, 36, T13S-R43W  
W/2 W/2 5, 6, 7, T14S-R42W  
E/2 E/2 4, E/2 E/2 12, T14S-R43W

Total Acres in Described Lease: 6000 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: 1319 Feet

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 2050 Feet  
Building Unit: 2050 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 630 Feet  
Above Ground Utility: 620 Feet  
Railroad: 5280 Feet  
Property Line: 570 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, and Designated Outside Activity Area - 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 Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 1352 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 1319 Feet (Enter 5280 for distance greater than 1 mile.)

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

## SPACING & FORMATIONS COMMENTS

## OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
MORROW	MRRW			

## DRILLING PROGRAM

Proposed Total Measured Depth: 5400 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 1352 Feet (Including plugged wells)

Will a closed-loop drilling system be used? No

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? No

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: ONSITE Drilling Fluids Disposal Methods: Evaporation

Cuttings Disposal: ONSITE Cuttings Disposal Method: Drilling pit

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
SURF	12+1/4	8+5/8	24	0	500	300	500	0
1ST	7+7/8	5+1/2	15.5	0	5400	150	5400	4400
			Stage Tool	0	3000	350	3000	0

☒ 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 application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: \_\_\_\_\_

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: TANNIS TRITT

Title: EXECUTIVE ASSISTANT Date: \_\_\_\_\_ Email: TTRITT@MULLDRILLING.CO

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

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

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

API NUMBER

05

## 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.

## Best Management Practices

No	BMP/COA Type	Description
1	Planning	<ul style="list-style-type: none"><li>• Conduct Initial Site Assessment<ul style="list-style-type: none"><li>o Identification of nearby water bodies</li><li>o Identification of vegetation types</li><li>o Identification of protected wildlife species</li><li>o Identification of potential access routes to minimize disturbances</li><li>o Identification of nearby improvements</li></ul></li></ul>
2	Pre-Construction	<ul style="list-style-type: none"><li>• Preparation of a Storm Water Pollution Prevention Plan. Acquisition of a Storm Water Discharge Permit</li><li>• Consultation with the surface landowner or appointed agent</li><li>• Finalize access routes</li><li>• Finalize well pad location to minimize surface grade impacts</li><li>• Finalize well pad layout to minimize disturbances</li><li>• Develop wildlife management plan if protected species are present</li></ul>

3	Construction	<ul style="list-style-type: none"> <li>• Access road, well pad and pit disturbances minimized</li> <li>• Soils segregated by type to facilitate reclamation</li> <li>• Storm water controls deployed and routinely inspected</li> </ul>
4	Drilling/Completion Operations	<p>Includes Structural Practices</p> <ul style="list-style-type: none"> <li>• Implement Storm Water Pollution Prevention Plan, including routine inspections and evaluation of effectiveness</li> <li>• Locate tank batteries at safe distance from public roadways and railhead</li> <li>• Full containment for stock tanks and separators</li> <li>• Installation of pipelines in common trenches when practical</li> <li>• Installation of pipelines at right angles to water bodies (drainages, wetlands, perennial water bodies) where practical</li> </ul> <p>Site Specific:</p> <ol style="list-style-type: none"> <li>1. Reporting of the presence of H2S will be done via verbal and email notices. Verbal notice with a follow up email will be provided as soon as practicable upon detection of H2S to COGCC's area engineer and the local government designee.</li> <li>2. Per ephemeral stream 29 feet southeast of staked location – structural practices will be implemented at the site to minimize erosion and sediment transport. Practices may include but are not limited to: straw bales, wattles/sediment control logs, silt fences, earth dikes, drainage swales, sediment traps, subsurface drains, pipe slope drains, inlet protection, outlet protection, gabions, and temporary sediment basins.</li> </ol>
5	General Housekeeping	<ul style="list-style-type: none"> <li>• Drilling and production operations conducted in safe, workmanlike manner. Safety expectations include good housekeeping.</li> <li>• During drilling/completion operations, debris stored in caged container which is removed from the site.</li> <li>• During production operations, the lease is inspected daily by MDC personnel.</li> </ul>
6	Material Handling and Spill Prevention	<ul style="list-style-type: none"> <li>• During drilling/completion operations, storage areas graded towards pit</li> <li>• During production operations, implementation of Spill Prevention, Control and Countermeasure Plan &amp; daily inspection</li> <li>• All stock and produced water tanks have secondary containment</li> </ul>
7	Storm Water/Erosion Control	<ul style="list-style-type: none"> <li>• During drilling / completion operations, implementation of Storm Water Pollution Prevention Plan</li> <li>• Following drilling/completion operations, prompt reclamation of disturbed areas</li> <li>• During production operations, implementation of MDC's Post Construction Storm Water Management Program</li> </ul>
8	Wildlife	<ul style="list-style-type: none"> <li>• Development and implementation of a Wildlife Management Plan if protected species are present</li> </ul>
9	Interim Reclamation	<ul style="list-style-type: none"> <li>• Debris and waste material removed</li> <li>• Areas not in use reclaimed promptly; pits closed using segregated material; well pad and other compacted surfaces ripped</li> <li>• Noxious weeds controlled</li> </ul>
10	Final Reclamation	<ul style="list-style-type: none"> <li>• All equipment and debris removed</li> <li>• All remaining disturbed areas, including access roads, reclaimed</li> <li>• Noxious Weed Control Plan developed if appropriate</li> </ul>

Total: 10 comment(s)

### **Attachment Check List**

**Att Doc Num**      **Name**

400683852	WELL LOCATION PLAT
400683911	30 DAY NOTICE LETTER

Total Attach: 2 Files

## General Comments

User Group

Comment

Comment Date

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Total: 0 comment(s)