

FORM
2
Rev
08/16

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:
401767057

APPLICATION FOR PERMIT TO:

Drill Deepen Re-enter **Recomplete and Operate**

Date Received:
09/19/2018

TYPE OF WELL OIL GAS COALBED OTHER _____
ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES

Refiling
Sidetrack

Well Name: TSA Unit Well Number: 1-14
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)264-6440
Email: mshreve@mulldrilling.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20000063

WELL LOCATION INFORMATION

QtrQtr: SWNW Sec: 14 Twp: 17S Rng: 45W Meridian: 6
Latitude: 38.578810 Longitude: -102.434700

Footage at Surface: 2150 Feet FNL/FSL FNL 171 Feet FEL/FWL

Field Name: RED GIANT Field Number: 72655

Ground Elevation: 4129 County: KIOWA

GPS Data:
Date of Measurement: 03/20/2012 PDOP Reading: 2.7 Instrument Operator's Name: Keith Westfall

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.
 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: oil and gas lease

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 14, E/2 and 14.8 acres in Section 15 starting at a point on the east line 2500' FSL, then west 489' then north 1320', then east 489', then south to point of origin, T17S-R45W, 6th PM

Total Acres in Described Lease: 175 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: 660 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 1056 Feet
 Building Unit: 1056 Feet
 High Occupancy Building Unit: 5280 Feet
 Designated Outside Activity Area: 5280 Feet
 Public Road: 159 Feet
 Above Ground Utility: 197 Feet
 Railroad: 5280 Feet
 Property Line: 171 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 proposed wellbore to nearest completed portion of offset wellbore permitted or completed in the same formation: 1879 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary _____ 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.)
LANSING	LNSNG			
MARMATON	MRTN			
MISSISSIPPIAN	MSSP			
MORROW	MRRW			

DRILLING PROGRAM

Proposed Total Measured Depth: 5300 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: _____ Feet No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? No

Is H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H₂S 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: _____ Drilling Fluids Disposal Methods: _____

Cuttings Disposal: _____ Cuttings Disposal Method: _____

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	352	265	352	0
1ST	7+7/8	5+1/2	15.5	0	5298	225	5298	3380
			Stage Tool	0	2662	325	2662	275

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

Summary of work to be completed:

1. TOH with rods, pump & tubing.
2. Perforate Morrow at 4916'-18'.
3. Run RBP, packer and tubing.
4. Set RBP at ~4950' & packer at ~4850'.
5. Swab test.
6. Anticipate acidizing with 250 gals. 7.5% MCA.
7. TOH with tubing, packer and RBP.
8. Run tubing, pump and rods.

9. At future date, will add Marmaton and Lasing as follows:
10. TOH with rods, pump & tubing.
11. Perforate Marmaton at 4403'-35' and Lasing at 4234'-36'.
12. Run RBP, packer and tubing.
13. Isolate and test each zone.
14. Anticipate acidizing each zone with 500 gals. 15% MCA and 1000 gals. 15% NE acid.
15. TOH with tubing, packer and RBP.
16. Run tubing, pump and rods.
17. Put well back on production with Mississippian, Morrow, Marmaton and Lansing commingled.

This application is in a Comprehensive Drilling Plan _____ CDP #: _____

Location ID: 427293

Is this application being submitted with an Oil and Gas Location Assessment application? No

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

Signed: _____ Print Name: Risa Carter

Title: Production Tech Date: 9/19/2018 Email: rcarter@mulldrilling.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: 3/18/2019

Expiration Date: 03/17/2021

API NUMBER
05 061 06869 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

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Best Management Practices

No BMP/COA Type

Description

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Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.
http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf

Attachment Check List

Att Doc Num

Name

401767057	FORM 2 SUBMITTED
401768068	WELLBORE DIAGRAM
401768069	WELLBORE DIAGRAM
401768070	OTHER

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

Permit	Final Review Completed.	03/15/2019
Engineer	Casing Program: Operator submitted Form with proposed values from the original permit. Revised to current existing values from the Form 5s and CBL. TOC primary 3380' was correct in submitted Form 5 according to the CBL dated 3/19/12. Approved Form 5 had a different value 2680' which does not appear to be correct. The stage tool - port collar appears to be at 2662-2664 per the CBL not 2669' as per the attached wellbore diagrams. Production casing depth is 5298 on wellbore diagram 5287 per Form 5. Driller depth was 5300. Open hole logging depth 5298. CBL depth was 5285.	02/11/2019
Permit	Passed Completeness	10/04/2018

Total: 3 comment(s)