

FORM
2

Rev
12/20

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:

403024361

(SUBMITTED)

Date Received:

05/13/2022

APPLICATION FOR PERMIT TO:

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

Amend ☐

TYPE OF WELL OIL ☐ GAS ☒ COALBED ☐ OTHER: Nitrogen Injection

Refill ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: Mull Unit

Well Number: 19

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: Bryan Neuhaus

Phone: (210)8752075

Fax: ()

Email: bneuhaus@mulldrilling.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20000063

WELL LOCATION INFORMATION

Surface Location

QtrQtr: SENW Sec: 9 Twp: 14S Rng: 49W Meridian: 6

Footage at Surface: 1986 Feet FNL/FSL FNL 1969 Feet FEL/FWL FWL

Latitude: 38.845270 Longitude: -102.899240

GPS Data: GPS Quality Value: 1.8 Type of GPS Quality Value: PDOP

Date of Measurement: 10/30/2008

Ground Elevation: 4431

Field Name: SORRENTO

Field Number: 77725

Well Plan: is ☐ Directional ☐ Horizontal (highly deviated) ☒ Vertical

If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data.

Subsurface Locations

Top of Productive Zone (TPZ)

Sec: Twp: Rng:

Footage at TPZ:

Measured Depth of TPZ:

True Vertical Depth of TPZ:

FNL/FSL

FEL/FWL

Base of Productive Zone (BPZ)

Sec: Twp: Rng:

Footage at BPZ:

Measured Depth of BPZ:

True Vertical Depth of BPZ:

FNL/FSL

FEL/FWL

Bottom Hole Location (BHL)

Sec: Twp: Rng:

Footage at BHL:

FNL/FSL

FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: CHEYENNE

Municipality: N/A

Is the Surface Location of this Well in an area designated as one of State interest and subject to the requirements of § 24-65.1-108 C.R.S.? No

Per § 34-60-106(1)(f)(I)(A) C.R.S., the following questions pertain to the Relevant Local Government approval of the siting of the proposed Oil and Gas Location.

SB 19-181 provides that when "applying for a permit to drill," operators must include proof that they sought a local government siting permit and the disposition of that permit application, or that the local government does not have siting regulations. § 34-60-106(1)(f)(I)(A) C.R.S.

Does the Relevant Local Government regulate the siting of Oil and Gas Locations, with respect to this Location? ☐ 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 disposition of the application filed with the Relevant Local Government is: _____ Date of Final Disposition: _____

Comments: _____

SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS LOCATION

Surface Owner of the land at this Well's Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ Indian

Mineral Owner beneath this Well's Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ Indian

Surface Owner Protection Financial Assurance (if applicable): _____ Surety ID Number (if applicable): _____

MINERALS DEVELOPED BY WELL

The ownership of all the minerals that will be developed by this Well is (check all that apply):

- ☒ Fee
☐ State
☐ Federal
☐ Indian
☐ N/A

LEASE INFORMATION

Using standard QtrQtr, Section, Township, Range format describe one entire mineral lease as follows:

* If this Well is within a unit, describe a lease that will be developed by the Well.

* If this Well is not subject to a unit, describe the lease that will be produced by the Well.

(Attach a Lease Map or Lease Description or Lease if necessary.)

T13S-R49W 6: All Section 32, S/2 Section 33

T14S-R49W 6: W/2 Section 3, All Section 4, NE/4 & E/2 SE/4 Section 5, All Section 9, W/2 Section 10

Total Acres in Described Lease: 3120 Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # 150126

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 3743 Feet
Building Unit: 5280 Feet
Public Road: 1971 Feet
Above Ground Utility: 1971 Feet

INSTRUCTIONS:

- Specify all distances per Rule 308.b.(1).
- 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 – as defined in 100 Series Rules.

Railroad: 5280 Feet
Property Line: 1971 Feet

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	349-5	3120	T13S-R49W 6: All Section 32, S/2 Section 33 T14S-R49W 6: W/2 Section 3, All Section 4, NE/4 & E/2 SE/4 Section 5, All Section 9, W/2 Section 10

Federal or State Unit Name (if appl): Sorrento

Unit Number: 77725

SUBSURFACE MINERAL SETBACKS

Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? Yes

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: 1989 Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation: 1862 Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well producing from the same lease and permitted or completed in the same formation: Feet

Exception Location

☐ If this Well requires the approval of a Rule 401.c Exception Location, enter the Rule or spacing order number and attach the Exception Location Request and Waivers.

SPACING & FORMATIONS COMMENTS

Order No. 349-5 - "Order No. 349-1, establishing 80-acre drilling and spacing units and Order No. 349-4 providing for restrictions on production from the Morrow formation are hereby rescinded for the Unit Area"

DRILLING PROGRAMProposed Total Measured Depth: 5700 FeetTVD at Proposed Total Measured Depth 5700 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 feetWill a closed-loop drilling system be used? NoIs H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater thanor equal to 100 ppm? No If yes, attach an H₂S Drilling Plan unless a plan was already submitted with the Form 2A per Rule 304.c.(10).Will there be hydraulic fracture treatment at a depth less than 2,000 feet in this well? NoWill salt sections be encountered during drilling? NoWill salt based (>15,000 ppm Cl) drilling fluids be used? NoWill oil based drilling fluids be used? NoBOP Equipment Type: ☐ Annular Preventor ☐ Double Ram ☐ Rotating Head ☒ NoneBeneficial reuse or land application plan submitted? No

Reuse Facility ID: _____ or Document Number: _____

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	12+1/4	8+5/8	J-55	24	0	351	325	351	0
1ST	7+7/8	5+1/2	J-55	15.5	0	5658	435	5658	4891

☒ Conductor Casing is NOT planned**POTENTIAL FLOW AND CONFINING FORMATIONS**

Zone Type	Formation /Hazard	Top M.D.	Top T.V.D.	Bottom M.D.	Bottom T.V.D.	TDS (mg/L)	Data Source	Comment
Groundwater	High Plains Aquifer	0	0	237	237	0-500	Groundwater Atlas	
Confining Layer	Pierre	300	300	500	500			
Confining Layer	Greenhorn	1664	1664	1760	1760			
Groundwater	Dakota-Cheyenne	1760	1760	2278	2278	1001-10000	Groundwater Atlas	
Confining Layer	Morrison	2278	2278	2320	2320			
Hydrocarbon	Morrow	5472	5472	5490	5490			

OPERATOR COMMENTS AND SUBMITTAL

Comments: We are seeking to convert the Mull Unit #19 from a producing well to a Nitrogen GIW. This well exists in an already established EOR field. The current producing zone (Morrow) will be the same zone we will use for Nitrogen injection. The only downhole changes required will be to remove the rods and pump and run in with a packer and tubing.

This application is in a Comprehensive Area Plan No CAP #: _____

Oil and Gas Development Plan Name _____ OGDID #: _____

Location ID: 321583

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

Signed: _____ Print Name: Bryan NeuhausTitle: Staff Engineer Date: 5/13/2022 Email: bneuhaus@mulldrilling.com

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

05 017 06284 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

Attachment List

Att Doc Num

Name

403032636

LEASE MAP

403041574

WELLBORE DIAGRAM

403041575

WELLBORE DIAGRAM

Total Attach: 3 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.

