

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:

402587932

**(SUBMITTED)**

Date Received:

05/11/2021

## APPLICATION FOR PERMIT TO:

Drill       Deepen       Re-enter       Recomplete and Operate

Amend

Refile

Sidetrack

TYPE OF WELL OIL  GAS  COALBED  OTHER: \_\_\_\_\_  
ZONE TYPE SINGLE ZONE  MULTIPLE ZONES  COMMINGLE ZONES

Well Name: Taylor 6-65 23-26 Well Number: 3HN  
Name of Operator: GMT EXPLORATION COMPANY LLC COGCC Operator Number: 10243  
Address: 1560 BROADWAY STE 2000  
City: DENVER State: CO Zip: 80202  
Contact Name: Whitney Eberhardt Phone: (303)5869286 Fax: (720)9463028  
Email: w.eberhardt@gmtexploration.com

## RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20070102

## WELL LOCATION INFORMATION

### Surface Location

QtrQtr: SESE Sec: 23 Twp: 6S Rng: 65W Meridian: 6  
Footage at Surface: 1034 Feet FNL/FSL 491 Feet FEL/FWL FEL  
Latitude: 39.509593 Longitude: -104.626088  
GPS Data: GPS Quality Value: 1.4 Type of GPS Quality Value: PDOP Date of Measurement: 04/26/2019  
Ground Elevation: 6228  
Field Name: WILDCAT Field Number: 99999

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: 23 Twp: 6S Rng: 65W Footage at TPZ: 2042 FSL 1491 FWL  
Measured Depth of TPZ: 9555 True Vertical Depth of TPZ: 8218 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)  
Sec: 26 Twp: 6S Rng: 65W Footage at TPZ: 600 FSL 1509 FWL  
Measured Depth of TPZ: 16314 True Vertical Depth of TPZ: 8218 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)  
Sec: 26 Twp: 6S Rng: 65W Footage at BHL: 550 FSL 1509 FWL  
FNL/FSL FEL/FWL

## LOCAL GOVERNMENT PERMITTING INFORMATION

County: ELBERT

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.? Yes

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: Waived Date of Final Disposition: \_\_\_\_\_

Comments: Oil and Gas Pad sites require a building permit site plan, which is in development. Elbert County waived its right to precede.

## 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.)

Please see attached Lease Map.

Total Acres in Described Lease: 624 Described Mineral Lease is:  Fee  State  Federal  Indian

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

### SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 1758 Feet  
Building Unit: 1967 Feet  
Public Road: 2637 Feet  
Above Ground Utility: 2011 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: 491 Feet

## OBJECTIVE FORMATIONS

| Objective Formation(s) | Formation Code | Spacing Order Number(s) | Unit Acreage Assigned to Well | Unit Configuration (N/2, SE/4, etc.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| NIOBRARA               | NBRR           | 535-1132                | 960                           | 26: all: 23: S/2                     |

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

## 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: 600 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: 455 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

Approved Order 535-1132

## DRILLING PROGRAM

Proposed Total Measured Depth: 16364 Feet TVD at Proposed Total Measured Depth 8218 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? 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 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? No

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

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

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 |
|-------------|--------------|----------------|----------|-------|---------------|---------------|-----------|---------|---------|
| CONDUCTOR   | 24           | 16             | N/A      | 42    | 0             | 80            | 100       | 80      | 0       |
| SURF        | 12+1/2       | 9+5/8          | J-55 LTC | 36    | 0             | 2644          | 900       | 2644    | 0       |
| 1ST         | 8+1/2        | 5+1/2          | HCP110   | 20    | 0             | 16364         | 2450      | 16364   | 1500    |

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     | Dawson               | 102      | 102        | 513         | 513           | 0-500      | Other       | COGIS - Sample Site Inquiry   |
| Groundwater     | Denver               | 567      | 567        | 1441        | 1415          | 0-500      | Other       | COGIS - Sample Site Inquiry   |
| Groundwater     | Upper Arapahoe       | 1476     | 1447       | 1996        | 1907          | 0-500      | Other       | COGIS - Sample Site Inquiry   |
| Groundwater     | Laramie-Fox Hills    | 2356     | 2204       | 2823        | 2589          | 0-500      | Other       | COGIS - Sample Site Inquiry   |
| Confining Layer | Pierre Shale         | 2823     | 2589       | 3651        | 3270          |            |             |   |
| Hydrocarbon     | Sussex - Terry       | 3651     | 3270       | 3833        | 3420          |            |             | Not Productive in Area  |
| Hydrocarbon     | Shannon-Hygiene      | 6519     | 5628       | 6705        | 5785          |            |             | Not Productive in Area  |
| Confining Layer | Pierre Shale         | 6705     | 5785       | 8948        | 7923          |            |             |   |
| Confining Layer | Sharon Springs Shale | 8948     | 7923       | 8989        | 7958          |            |             | Sloughing Clay  |
| Hydrocarbon     | Niobrara             | 8989     | 7958       | 16363       | 8218          |            |             | The TVD of the deepest hydrocarbon zone is the bottom of the well and not the bottom of the formation. The formation is not planned to be exited. |

**OPERATOR COMMENTS AND SUBMITTAL**

Comments: There are no outside-operated wells within 1500'.  
Nearest wellbore in proposed unit is the Taylor 6-65 23-26 4HN.

This application is in a Comprehensive Area Plan       No       CAP #: \_\_\_\_\_  
Oil and Gas Development Plan Name \_\_\_\_\_ OGDID #: \_\_\_\_\_

Location ID:       479194      

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:       5/11/2021       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

### 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.

| <u>COA Type</u>                         | <u>Description</u>   |
|---|--|
| <b><u>Best Management Practices</u></b> |  |
| <u>No BMP/COA Type</u>                  | <u>Description</u>   |
| 1                                       | Drilling/Completion Operations<br>Prior to drilling operations, operator will perform an anti-collision scan of existing wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed well path with its respective error of uncertainty. If current surveys do not exist for the offset wells, operator may have gyro surveys conducted to verify bottom hole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment.  |
| 2                                       | Drilling/Completion Operations<br>Alternative Logging Program: One of the first wells drilled on the pad will be logged with an open-hole Resistivity Log and Gamma Ray Log from the 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 logs run and have those logs attached. The Form 5 for a well without open-hole logs shall clearly state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify the type of log and the well (by API#) in which open-hole logs were run.   |
| 3                                       | Drilling/Completion Operations<br>No drill stem test will be performed.  |
| 4                                       | Drilling/Completion Operations<br>Upon initial rig up and at least once every thirty (30) days during drilling operations thereafter, pressure testing of the casing string and each component of the blow out equipment including flange connections will be performed to seventy percent (70%) of the internal yield of casing, whichever is less. Pressure testing will be conducted. The documented results will be retained by operator for inspection by the Director for a period of one (1) year. Activation of the pipe rams for function testing shall be conducted daily when practical. A BOP with a minimum pressure rating of three thousand (3,000) psi will be utilized. At a minimum, it will consist of two (2) ram preventers and one (1) annular preventer. A backup system of pressure control will be on site consisting of a minimum of one thousand (1,000) psi accumulator. All on site representatives will be certified in Well Control Operations. |

Total: 4 comment(s)

### Attachment List

| <b>Att Doc Num</b> | <b>Name</b>                |
|--------------------|----------------------------|
| 402594445          | DIRECTIONAL DATA           |
| 402594446          | DEVIATED DRILLING PLAN     |
| 402594447          | SURFACE AGRMT/SURETY       |
| 402594448          | WELL LOCATION PLAT         |
| 402594449          | LEASE MAP                  |
| 402598310          | OffsetWellEvaluations Data |

Total Attach: 6 Files

**General Comments**

| <b>User Group</b> | <b>Comment</b> | <b>Comment Date</b> |
|-------------------|----------------|---------------------|
|                   |                | Stamp Upon Approval |

Total: 0 comment(s)



**Public Comments**

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

