

FORM  
2  
Rev  
05/22

# State of Colorado Energy & Carbon Management Commission

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Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

403818797

**(SUBMITTED)**

Date Received:

08/02/2024

## APPLICATION FOR PERMIT TO

Drill     Deepen     Re-enter     Recomplete and Operate    Amend

TYPE OF WELL    OIL     GAS     COALBED     OTHER: \_\_\_\_\_    Refile

ZONE TYPE    SINGLE ZONE     MULTIPLE ZONES     COMMINGLE ZONES     Sidetrack

Well Name: Irwin 6-65 23-11    Well Number: 4HN

Name of Operator: GMT EXPLORATION COMPANY LLC    ECMC Operator Number: 10243

Address: 4949 S NIAGARA ST SUITE 250

City: DENVER    State: CO    Zip: 80237

Contact Name: Maxwell Blair    Phone: (303)586-9291    Fax: ( )

Email: mblair@gmtexploration.com

## FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

### ECMC Financial Assurance

The Operator has provided or will provide Financial Assurance to the ECMC for this Well.

Surety ID Number (if applicable): 20070102

### Federal Financial Assurance

In checking this box, the Operator certifies that it has provided or will provide at least this amount of Financial Assurance to the federal government for this Well. (Per Rule702.a.)

Amount of Federal Financial Assurance \$ \_\_\_\_\_

## WELL LOCATION INFORMATION

### Surface Location

QtrQtr: SESE    Sec: 23    Twp: 6S    Rng: 65W    Meridian: 6

Footage at Surface: 1124 Feet FSL 471 Feet FEL

Latitude: 39.509840    Longitude: -104.626014

GPS Data:    GPS Quality Value: 1.3    Type of GPS Quality Value: PDOP    Date of Measurement: 04/26/2019

Ground Elevation: 6222

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: 6N    Rng: 65W    Footage at TPZ: 2040    FNL    1934    FWL  
Measured Depth of TPZ: 9286    True Vertical Depth of TPZ: 8157    FNL/FSL    FEL/FWL

Base of Productive Zone (BPZ)

Sec: 11 Twp: 6N Rng: 65W Footage at BPZ: 600 FNL 1928 FWL

Measured Depth of BPZ: 21290 True Vertical Depth of BPZ: 8157 FNL/FSL  FEL/FWL

Bottom Hole Location (BHL)

Sec: 11 Twp: 6N Rng: 65W Footage at BHL: 550 FNL 1928 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.? 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: 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 Bond (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: 614 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease #

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 1675 Feet  
Building Unit: 1884 Feet  
Public Road: 2554 Feet  
Above Ground Utility: 1931 Feet  
Railroad: 5280 Feet  
Property Line: 471 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.

## 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	535-1185	1600	11&14:All;23:N/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: 446 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 535-1185

**DRILLING PROGRAM**Proposed Total Measured Depth: 21340 FeetTVD at Proposed Total Measured Depth 8157 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: 1331 Feet  No well belonging to another operator within 1,500 feetWill a closed-loop drilling system be used? YesIs 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? 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? YesBOP 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	J55 LTC	36	0	2644	900	2644	0
1ST	8+1/2	5+1/2	HCP110	20	0	21340	3240	21340	

 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	109	109	520	520	0-500	Other	COGIS - Sample Site Inquiry
Groundwater	Denver	575	574	1453	1422	0-500	Other	COGIS - Sample Site Inquiry
Groundwater	Upper Arapahoe	1488	1454	2010	1914	0-500	Other	COGIS - Sample Site Inquiry
Groundwater	Laramie-Fox Hills	2375	2212	2803	2596	0-500	Other	COGIS - Sample Site Inquiry
Confining Layer	Pierre Shale	2803	2596	3575	3260			
Hydrocarbon	Sussex-Terry	3575	3260	3748	3409			Not Productive in Area
Hydrocarbon	Shannon-Hygiene	6322	5622	6498	5775			Not Productive in Area
Confining Layer	Pierre Shale	6498	5775	8746	7917			
Confining Layer	Sharon Springs Shale	8746	7917	8792	7952			Sloughing Clay
Hydrocarbon	Niobrara	8792	7952	21340	8157			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



**ATTACHMENT LIST**

**Att Doc Num**      **Name**

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Total Attach: 0 Files

**General Comments**

**User Group**      **Comment**

**Comment Date**

		Stamp Upon Approval
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Total: 0 comment(s)

