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# DUST MITIGATION PLAN

**GMT** EXPLORATION COMPANY LLC

**Ragged 6-64 4 Pad**

Sec. 4 T6S R64W Lot 1

Elbert County, Colorado

Surface: Fee

Submitted as an accompaniment to the Form 2A Application  
and consistent with the requirements of Rule 427.a.

October 19, 2022

# **GMT Exploration Company LLC Elbert County, Colorado**

## **Dust Mitigation Plan**

### **Project Summary:**

GMT Exploration Company LLC's (GMT's) proposed Ragged 6-64 4 Pad "Location" is located in Township 6 South Range 64 West of Section 4 in Elbert County, Colorado. The proposed location is on fee surface with a total Location disturbance of 15.898 acres which includes the active working pad surface area of 9.055 acres. During interim reclamation and production phase 8.919 acres will be reclaimed leaving a disturbed production area of 6.979 acres. Construction is anticipated to begin no sooner than January 2023.

### **Plan**

#### **Project Overview:**

GMT's Dust Mitigation Plan is intended to facilitate compliance with the applicable regulations of the Colorado Oil and Gas Conservation Commission, the Colorado Department of Public Health and Environment and Elbert County.

GMT's development of the Ragged 6-64 4 Location requires earth disturbing activities and travel on unpaved roads which has the potential to produce fugitive dust emissions.

Dust associated with the Location activities and traffic on roads will be minimized throughout all phases such that there are minimal visible dust emissions from the Location or associated roads to the maximum extent practicable given wind and other weather conditions.

Sand, silica, or other materials used during the completion phase will be stored in covered containers. GMT will utilize Sandbox if available.

Any chemical application will have Safety Data Sheets on location.

#### **Compliance with Rule 427.a.**

1. Wellpad and Access Road soil types:
  - 6 - Bresser sandy loam, cool, 5 to 9 percent slopes
  - 38 – Renohill clay loam, 4 to 8 percent slopes
  - 32 – Nunn clay loam, 0 to 4 percent slopes
  
2. Proposed vehicle speed limit: 25 MPH or less on roads; 5 MPH or less on the Location.

3. Total disturbed area: 17.034 acres
  - Wellpad: 15.898 acres
  - Access Road: 1.136 acres

4. Please see enclosed Haul Route Map.

5. Number of truck trips during the Construction, Drilling, Completion and Production stages:

<b>Development State</b>	<b>Time Frame</b>	<b>Traffic Per Stage - Daily</b>
Surface Construction	45 Days	44
Drilling per well	30 Days	50
Completion per well	40 Days	112
Flowback per well	14 - 21 Days	52
Production	20 Years	±1

6. Plan for Suppressing Fugitive Dust Caused by Wind:

- If wind conditions are such that work cannot be completed without creating fugitive dust, action will be immediately taken to apply water to all dust-creating surfaces.
- Regular road maintenance will be implemented to mitigate fugitive dust.
- Avoid unnecessary work on dust generating on high wind days.
- Natural or artificial windbreaks may be utilized as appropriate.
- Utilize gravel in high wind areas on specific portions of roads and wellpads.

7. Best Management Practices:

- GMT will gravel all working surfaces and perform interim reclamation within six months of well drilling and completion.
- Utilize existing vegetation, trees slash or brush piles to cover disturbed areas not used for vehicle traffic.
- Application of fresh water during dry season.
- Operations will be confined to the wellpad working surface.
- Continuous monitoring of disturbed areas to evaluate additional BMPs needed.
- Fresh water application to disturbed areas during construction.
- Fresh water or magnesium chloride application to graveled surfaced of the Location and associated roads.
- Speed limit signs will be posted per surface owner agreement.
- Contractors will be notified of speed limits if no signs are posted.
- Regular road maintenance such as grading and adding additional gravel as needed.

## Elbert County, Colorado, Western Part

### 6—Bresser sandy loam, cool, 5 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tlpk  
*Elevation:* 5,500 to 6,960 feet  
*Mean annual precipitation:* 15 to 19 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 100 to 130 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Bresser, cool, and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Bresser, Cool

##### Setting

*Landform:* Interfluves  
*Landform position (two-dimensional):* Shoulder, backslope  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Tertiary aged alluvium derived from arkose

##### Typical profile

*Ap - 0 to 5 inches:* sandy loam  
*Bt1 - 5 to 8 inches:* sandy loam  
*Bt2 - 8 to 27 inches:* sandy clay loam  
*Bt3 - 27 to 36 inches:* sandy loam  
*C - 36 to 80 inches:* loamy coarse sand

##### Properties and qualities

*Slope:* 5 to 9 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 5 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Low (about 5.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 4e

*Land capability classification (nonirrigated): 4e*  
*Hydrologic Soil Group: B*  
*Ecological site: R049XB210CO - Sandy Foothill*  
*Hydric soil rating: No*

### **Minor Components**

#### **Ascalon**

*Percent of map unit: 10 percent*  
*Landform: Interfluves*  
*Landform position (two-dimensional): Shoulder*  
*Landform position (three-dimensional): Interfluve*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Ecological site: R049XB210CO - Sandy Foothill*  
*Hydric soil rating: No*

#### **Truckton**

*Percent of map unit: 5 percent*  
*Landform: Interfluves*  
*Landform position (two-dimensional): Backslope*  
*Landform position (three-dimensional): Interfluve*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Ecological site: R049XB210CO - Sandy Foothill*  
*Hydric soil rating: No*

## **Data Source Information**

Soil Survey Area: Elbert County, Colorado, Western Part  
Survey Area Data: Version 17, Aug 31, 2021

## Elbert County, Colorado, Western Part

### 38—Renohill clay loam, 4 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* jnkv  
*Elevation:* 5,300 to 6,400 feet  
*Mean annual precipitation:* 14 to 17 inches  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Renohill and similar soils:* 80 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Renohill

##### Setting

*Landform:* Ridges, hills  
*Landform position (three-dimensional):* Side slope, crest  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from sandstone and shale

##### Typical profile

*H1 - 0 to 2 inches:* clay loam  
*H2 - 2 to 14 inches:* clay  
*H3 - 14 to 24 inches:* clay loam  
*H4 - 24 to 28 inches:* unweathered bedrock

##### Properties and qualities

*Slope:* 4 to 8 percent  
*Depth to restrictive feature:* 20 to 40 inches to paralithic bedrock  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Low (about 4.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* C  
*Ecological site:* R049XB208CO - Clayey Foothill  
*Hydric soil rating:* No

### **Minor Components**

#### **Kutch**

*Percent of map unit:* 6 percent

*Hydric soil rating:* No

#### **Cushman**

*Percent of map unit:* 6 percent

*Hydric soil rating:* No

#### **Wiley**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### **Baca**

*Percent of map unit:* 3 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Elbert County, Colorado, Western Part

Survey Area Data: Version 17, Aug 31, 2021

## Elbert County, Colorado, Western Part

### 32—Nunn clay loam, 0 to 4 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tlpq  
*Elevation:* 5,450 to 6,430 feet  
*Mean annual precipitation:* 15 to 19 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 100 to 130 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Nunn and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Nunn

##### Setting

*Landform:* Terraces, pediments  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Alluvium

##### Typical profile

*A - 0 to 6 inches:* clay loam  
*Bt - 6 to 18 inches:* clay  
*Btk - 18 to 30 inches:* clay  
*Bk - 30 to 47 inches:* clay loam  
*BCK - 47 to 80 inches:* clay loam

##### Properties and qualities

*Slope:* 0 to 4 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 7 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 0.5  
*Available water supply, 0 to 60 inches:* High (about 9.6 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated): 3e*  
*Hydrologic Soil Group: C*  
*Ecological site: R049XB208CO - Clayey Foothill*  
*Hydric soil rating: No*

### **Minor Components**

#### **Heldt**

*Percent of map unit: 10 percent*  
*Landform: Terraces, pediments*  
*Landform position (three-dimensional): Tread*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Ecological site: R049XB208CO - Clayey Foothill*  
*Hydric soil rating: No*

#### **Englewood**

*Percent of map unit: 5 percent*  
*Landform: Terraces, pediments*  
*Landform position (three-dimensional): Tread*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Ecological site: R049XB208CO - Clayey Foothill*  
*Hydric soil rating: No*

## **Data Source Information**

Soil Survey Area: Elbert County, Colorado, Western Part  
Survey Area Data: Version 17, Aug 31, 2021