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# DUST MITIGATION PLAN



**UPRC 1 Eiger 14-11**

**Sec. 11 T12S R43W (SW/4 SW/4)**

**Cheyenne County, Colorado**

**Surface: Fee**

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

September 20, 2022

## **Wavetech Helium, Inc. Cheyenne County, Colorado**

### **Dust Mitigation Plan**

#### **Project Summary:**

Wavetech Helium, Inc.'s ("Wavetech's") proposed UPRC 1 Eiger 14-11 "Location" is in Sec. 11 T12S R43W in Cheyenne County, Colorado. Wavetech plans to re-enter and test this conventional well which will produce helium containing natural gas, water and possibly oil. All gas production will go directly to the existing Ladder Creek Pipeline gathering system through its existing connection to the location. The Ladder Creek Pipeline is operated by Tumbleweed Midstream. The gas processing facility will be on lands outside of this Oil and Gas Development Plan. This well will be re-entered, perforated, and tested. The proposed location is fee surface and fee minerals with a total pad disturbance of  $\pm 3.5$  acres. The graded site elevation is expected to be approximately 4,165'. No federal surface or minerals are involved in this project. All operations would be conducted in compliance with all federal, state, and local applicable laws, rules, and regulations.

#### **Plan:**

#### **Project Overview:**

Wavetech'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 Cheyenne County.

Wavetech's development of the UPRC 1 Eiger 14-11 wellpad ("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.

No proppant will be used in reentry operations.

Any chemical application will have Safety Data Sheets on location.

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

##### **1. Wellpad soil types:**

20- Keith-Ulysess silt loams, 1 to 4 percent slopes

##### **Access Road soil types:**

20- Keith-Ulysess silt loams, 1 to 4 percent slopes

2. Proposed vehicle speed limit: 20 MPH or less on roads; 5 MPH or less on the Location.

3. Total disturbed area:

- Wellpad: 3.5 acres
- Access Road: 0.8 acres.
- Pipeline: The existing pipeline will not require any additional disturbance.

**Total Acres of disturbance: 4.3 acres**

4. Access roads will not be paved. During the drilling and testing phase, the new access road will be minimally upgraded to allow for construction and if needed emergency vehicles. If the well proves to be commercial, road will be crowned (with a minimum of 4 inches of gravel) and ditched, as agreed to by the private surface owner. Road surfacing material will consist of limestone, scoria or river rock or as agreed upon by the private surface owner and will be sourced as locally as possible to minimize travel distance.

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

Phase of Development	Monthly Truck Trips	Post Construction/Re-Entry Yearly Truck Trips
Construction (Wellpad & Access)	24	NA
Re-entry Operations	102	NA
Completion/Equipment Installation	89	NA
Production/Daily Operations	30	365
<b>Total Truck Trips</b>	<b>245</b>	<b>365</b>

*Traffic counts are approximate, based on round trips, and may vary due to circumstances.*

6. Plan for Suppressing Fugitive Dust Caused by Wind:

- Stop work orders will be issued during high wind conditions when possible with contiguous activities on location (sustained winds of 25 MPH or greater).
- 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:

- The wellpad will be constructed to a minimum size to accommodate all equipment but allowing for maximum safety precautions.
- 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.

## Cheyenne County, Colorado

### 20—Keith-Ulysses silt loams, 1 to 4 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tv5w

*Elevation:* 3,840 to 4,720 feet

*Mean annual precipitation:* 14 to 16 inches

*Mean annual air temperature:* 50 to 54 degrees F

*Frost-free period:* 130 to 170 days

*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Keith and similar soils:* 45 percent

*Ulysses and similar soils:* 30 percent

*Minor components:* 25 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Keith

##### Setting

*Landform:* Plains

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loess

##### Typical profile

*Ap - 0 to 6 inches:* silt loam

*Bt1 - 6 to 10 inches:* silty clay loam

*Bt2 - 10 to 25 inches:* silty clay loam

*C - 25 to 79 inches:* silt loam

##### Properties and qualities

*Slope:* 1 to 2 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high (0.20 to 0.60 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 8 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Available water supply, 0 to 60 inches:* Very high (about 12.6 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C  
*Ecological site:* R072XY100KS - Loamy Tableland  
*Hydric soil rating:* No

### **Description of Ulysses**

#### **Setting**

*Landform:* Hillslopes  
*Landform position (two-dimensional):* Shoulder, backslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Loess

#### **Typical profile**

*Ap - 0 to 3 inches:* silt loam  
*Bw - 3 to 8 inches:* silt loam  
*Bk - 8 to 13 inches:* silt loam  
*C - 13 to 79 inches:* silt loam

#### **Properties and qualities**

*Slope:* 2 to 4 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 6 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Very high (about 12.7 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* B  
*Ecological site:* R072XY100KS - Loamy Tableland  
*Hydric soil rating:* No

### **Minor Components**

#### **Colby**

*Percent of map unit:* 10 percent  
*Landform:* Hillslopes  
*Landform position (two-dimensional):* Shoulder  
*Landform position (three-dimensional):* Nose slope

*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Ecological site:* R072XY101KS - Limy Slopes  
*Hydric soil rating:* No

#### **Goshen**

*Percent of map unit:* 5 percent  
*Landform:* Swales  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Ecological site:* R072XY117KS - Tableland Swale  
*Hydric soil rating:* No

#### **Richfield**

*Percent of map unit:* 5 percent  
*Landform:* Rises  
*Landform position (two-dimensional):* Summit, backslope  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Ecological site:* R072XY100KS - Loamy Tableland  
*Hydric soil rating:* No

#### **Wiley**

*Percent of map unit:* 5 percent  
*Landform:* Plains  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R072XY100KS - Loamy Tableland  
*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Cheyenne County, Colorado  
Survey Area Data: Version 23, Aug 31, 2021