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# INTERIM RECLAMATION PLAN

**Wavetech  Helium, Inc.**

**1 Wavetech FPI Burlington Farms 32-11**

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

Cheyenne County, Colorado

Surface: Fee

Submitted as an accompaniment to the Form 2A Application and  
Consistent with the requirements of Rule 1003.

November 11, 2022

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

### **Interim Reclamation Plan**

#### **Project Summary:**

Wavetech Helium, Inc.'s ("Wavetech's") proposed 1 Wavetech FPI Burlington Farms 32-11 "Location" is in Sec. 11 T12S R43W in Cheyenne County, Colorado. Wavetech plans to drill 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 at the tie-in point in Sec. 11 T12S R43W (NW/4 NW/4). 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 drilled, 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 4,164'. 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**

Interim reclamation is key to topsoil conservation and stabilization and lays the groundwork for success final reclamation of the restoration of the natural vegetative community, hydrology, and wildlife habitats. Best Management Practices (BMPs), where applicable, mixed with other reclamation measures ensure successful final reclamation.

#### **General Interim Reclamation Guidelines**

**The general interim reclamation guidelines will apply to all linear projects; access roads, pipelines, flowlines, etc. and to all wellpads and production pads.**

In areas that are disturbed by construction, topsoil will be stripped and stockpiled near the site. All brush, limbs, and other woody material will be stockpiled separately from the topsoil. Soil materials will be managed so that erosion and sediment transport are minimized. Nearby drainages will be protected by appropriate measures.

The salvaging and spreading of topsoil will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment. If such equipment creates ruts, in excess of four inches deep, the soil will be deemed too wet.

All earthwork for interim reclamation will be completed within six months of well completion or plugging (weather permitting).

In areas that will not be drill-seeded, the seed mix will be broadcast-seeded at twice the application rate shown and covered 0.25 to 0.5 inches deep with a harrow or drag bar or will be broadcast-seeded into imprints, such as fresh dozer cleat marks.

Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of four to six inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed as agreed upon with the private surface owner to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces.

To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, debris, and rock over recontoured cut/fill slopes.

Revegetation will be accomplished by planting a seed mix as agreed upon by the private surface owner. The seed mix will include a portion of vegetation occurring in the surrounding natural vegetation.

No seeding will occur from May 15 to September 15. Fall seeding is preferred and will be conducted after September 15 and prior to ground freezing. Spring seeding will be conducted after the frost leaves the ground and no later than May 15.

Annual or noxious weeds shall be controlled on all disturbed areas as directed by the private surface owner. An intensive weed monitoring and control program will be implemented beginning the first growing season after interim reclamation. Noxious weeds that have been identified during monitoring will be promptly treated and controlled. All reclamation equipment will be cleaned prior to use to reduce the potential for introduction of noxious weeds or other undesirable non-native species. The operator will coordinate all weed and insect control measures with state and/or local management agencies.

Reclaimed areas will be monitored annually. Actions will be taken to ensure that reclamation standards are met as quickly as reasonably practical.

**1 Wavetech FPI Burlington Farms 32-11:**

Only the wellpad and the access road are planned for this Location. Production facilities will be located on location per landowner agreement.

**Wellpad/Access Road/Gathering Lines**

- To negate surface disturbance 12" x 12" test pits will be dug on the southeast corner and the southwest corner of the wellpad. The pits will be dug in a manner prior to wellpad construction so that will not require any compaction post construction.
- During wellpad construction topsoil will not be piled higher than 3 to 5 feet high and slopes of the stockpiles should not exceed 2:1 (horizontal:vertical) to minimize erosion potential and facilitate interim stabilization. Topsoil material will be placed on the the northeastern and northwestern sides of the cleared pad and will be approximately 1,728 CY.
- Following the drilling and completion activities, the well pad will be reduced, thus minimizing the area of disturbance for the production life of the well. The pad will be recontoured, subsoil will be applied, and any topsoil recovered during active construction will be applied over the subsoil. The reduced area will be stabilized with seed, hydro-seed, bonded fiber matrix, mulch, etc. as deemed appropriate for the site. Please see Production/Interim Reclamation Drawing.

- The portion of the wellpad and access road needed for ongoing operations will be graveled and the access road will be crowned and ditched. Any gravel not needed for interim reclaimed will be removed from the road and wellpad.
- Well production equipment, such as tanks, treaters, separators, vents, electrical boxes, etc. will be placed on location to permit maximum interim reclamation of disturbed areas. If equipment is found to interfere with the proper interim reclamation of disturbed areas, the equipment may be moved so proper recontouring and revegetation can occur.
- Any gathering line corridors will be contained within the working pad surface and will be reclaimed leaving only operational areas where necessary. Topsoil will be reapplied during interim reclamation to promote regrowth of vegetation. The wellpad which includes the gathering lines will be recontoured, topsoil reapplied, and the reduced area stabilized with seed, hydro-seed, bonded fiber matrix, mulch, etc. Continual interim reclamation stabilization controls will be used during both active and post construction until permanent vegetation is established.
- Initial disturbance of the Location will be 3.5 acres which will be reduced to 1.2 acres post drilling.

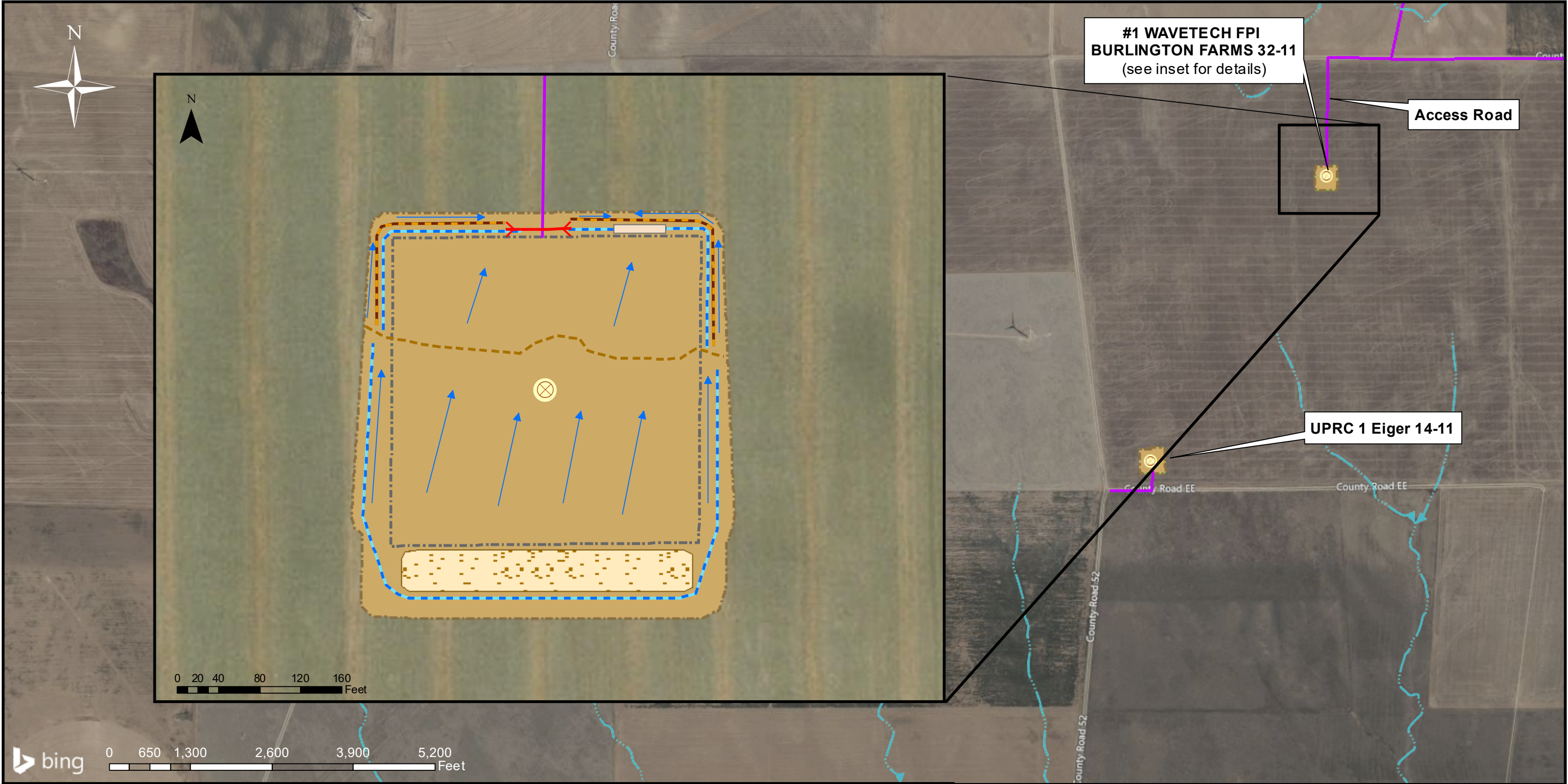
Satanta loam and Satanta-Colby complex, similar soils, and minor components are present at the site.

There are no known weed infestations as this sight.

**Best Management Practices for Interim Reclamation:**

- Silt Fence and Straw Wattles: A silt fence and/or straw wattles may be installed on portions of the location to control run-on to the pad, and any stormwater flow to runoff the pad uncontrolled.
- An earthen berm will be constructed on the north side of the pad to control sediment migration. No uncontrolled stormwater will be directed off the pad.
- A sediment trap will be constructed on the northeastern corner of the pad. Diversion ditches will be graded to direct stormwater to the sediment trap, where sediment will settle, and water will be allowed to evaporate.
- A diversion ditch will be constructed around the northwest side, a portion of the northeast side, the southwest side, and a small portion of the southeast side of the wellpad. The diversion ditch will be utilized around the perimeter of the pad to control run-on (keep off-location sediment from coming on to the pad which is typically very minimal) and to control sediment from running off the location during construction and interim stabilization.
- Rock Rip-Rap: Where culverts are installed, rock rip-rap placed on both sides of the culverts to slow/filter any stormwater runoff from the road itself.
- If weeds appear, an aggressive weed management program will be implemented. The program will depend on *if* weeds appear and volume and type.
- A seed mix will be approved by private surface owner prior to interim reclamation.
- Wavetech will fence the entire location with wildlife friendly barb wire, per landowner requirements, to keep ungulates out of the Location.

- All earthwork for interim reclamation will be completed within six months of well completion or plugging. Reclamation will be completed in the fall if possible; after September 15 and prior to ground freezing. If spring seeding is necessary, seeding will be conducted after the frost leaves the ground and no later than May 15.
- All interim reclaimed areas will be recontoured as much as possible to match the initial surrounding topography while maintaining safe working areas.

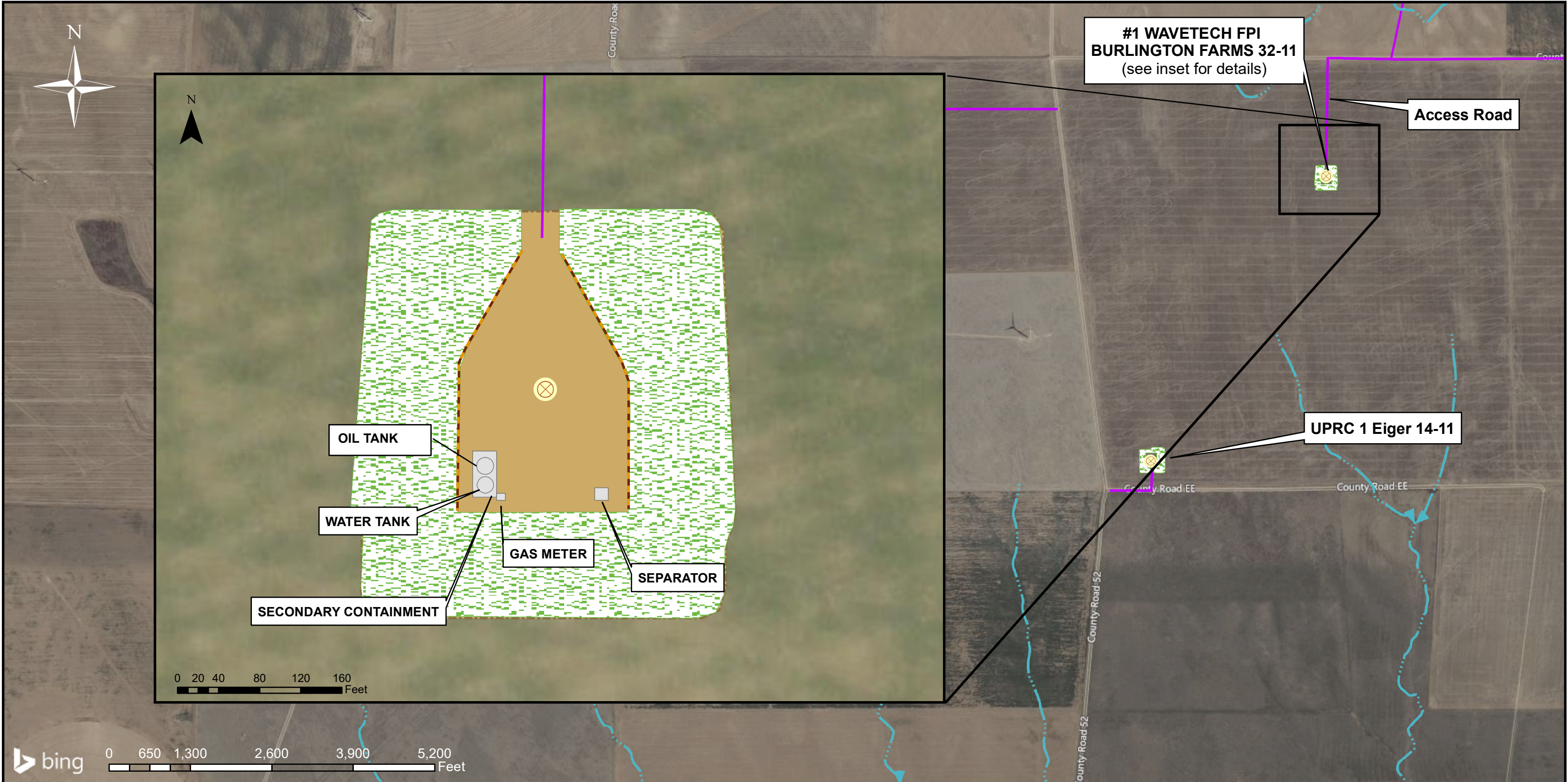


MAP FEATURES









- |  |                   |  |                            |
|--|-------------------|--|----------------------------|
|  | Disturbed Area    |  | Surface Flow Direction     |
|  | Topsoil Stockpile |  | Culvert                    |
|  | Production Area   |  | Cut/Fill                   |
|  | Sediment Trap     |  | Perennial Stream           |
|  | Access Road       |  | Intermittent Stream        |
|  | Earthen Berm      |  | Well Head Surface Location |
|  | Diversion Ditch   |  |                            |

REVISION		DATE	Wavetech Helium	
			#1 Wavetech FPI Burlington Farms 32-11	
			Stormwater Management Plan	
			Site-Specific Diagram - Initial Construction	
			Section 11, Township 12S, Range 43W, Cheyenne County	
				DRAWN BY: KT (Aquionix)
				DATE DRAWN: 10/13/2022
				MAP SCALE: 1:18,044
				COORD. SYSTEM: WGS_1984_Web_Mercator_Auxiliary_Sphere






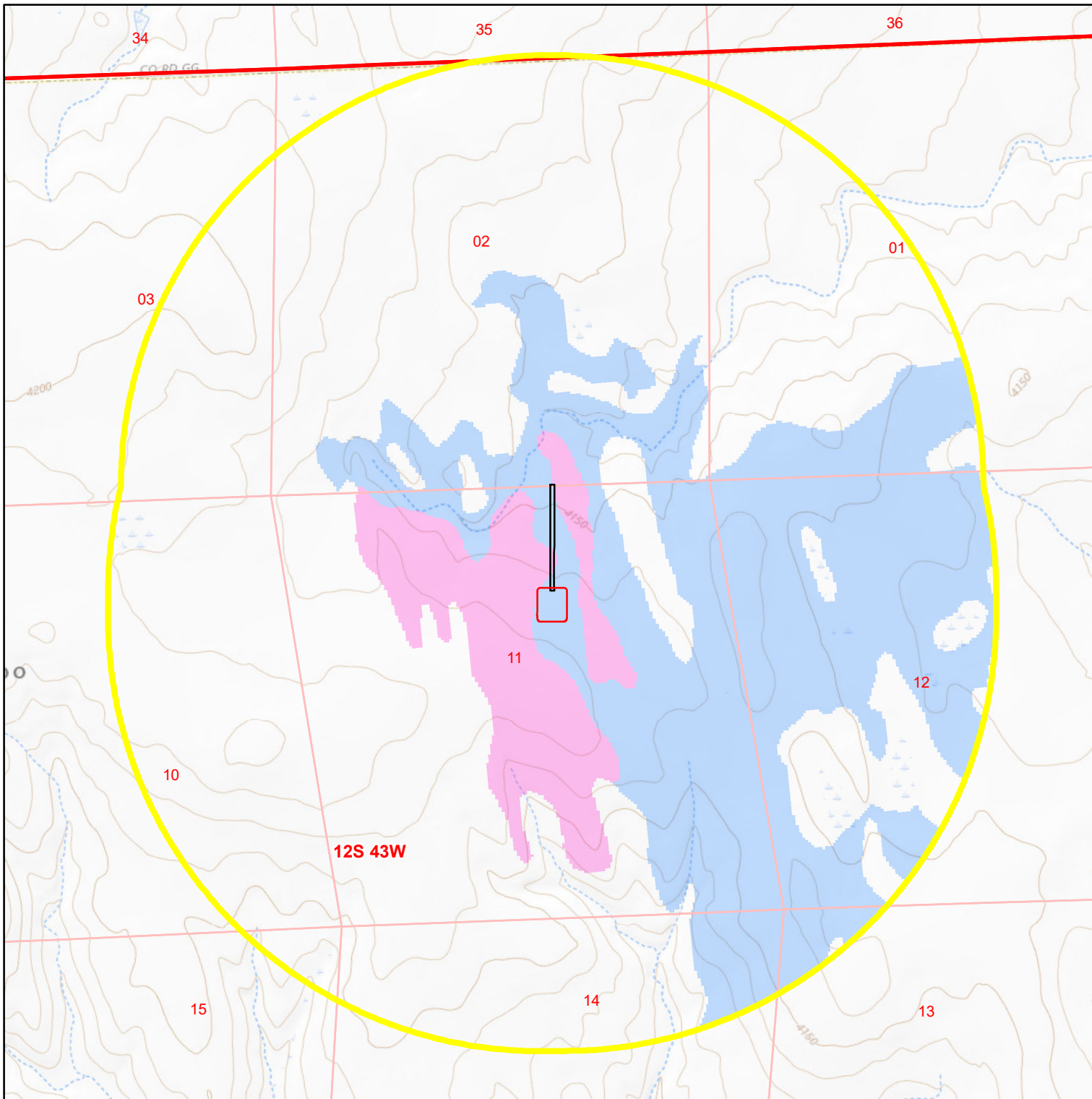
MAP FEATURES

- |  |                      |   |                            |
|--|----------------------|---|----------------------------|
|  | Disturbed Area       |  | Well Head Surface Location |
|  | Hydroseed            |   |                            |
|  | Production Equipment |   |                            |
|  | Access Road          |   |                            |
|  | Earthen Berm         |   |                            |
|  | Perennial Stream     |   |                            |
|  | Intermittent Stream  |   |                            |




REVISION	DATE
Updated equipment locations	4/14/2023

Wavetech Helium	
<b>#1 Wavetech FPI Burlington Farms 32-11 Stormwater Management Plan Site-Specific Diagram - Interim Reclamation</b>	
<i>Section 11, Township 12S, Range 43W, Cheyenne County</i>	
	DRAWN BY: KT (Aquionix)
	DATE DRAWN: 10/13/2022
	MAP SCALE: 1:18,044
	COORD. SYSTEM: WGS_1984_Web_Mercator_Auxiliary_Sphere







## Legend

-  Proposed Access Road/Pipeline ROW
-  Proposed Oil and Gas Location
-  One Mile Buffer

## Soil Types

-  38, Satanta loam, 0 to 3 percent slopes
-  39, Satanta-Colby complex

Source: Colorado Geological Survey  
No faults, landslides, expansive soils, dikes, radioactive soils, earthquakes, floodplains, avalanches, or mudflows were evident in the area.

SOURCE: <https://cologeosurvey.maos.arcgis.com/apps/webappviewer/index.html?id=a6f816b35fb64d3da096e84af661f070>

SOURCE: NRCS July 2020

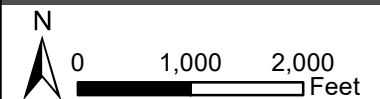
Date: 10/11/2022

## Project Location



WAVETECH ENERGY, INC.  
1 FPI BURLINGTON FARMS 32-11  
SEC. 11 T12S R43W (SW/4 NE/4) CHEYENNE  
COUNTY, COLORADO SURFACE: FEE

## SOILS



Prepared By: Redhawk GIS, LLC