

Cheyenne County, Colorado

39—Satanta-Colby complex, 3 to 5 percent slopes

Map Unit Setting

National map unit symbol: 354v

Elevation: 3,000 to 6,500 feet

Mean annual precipitation: 12 to 25 inches

Mean annual air temperature: 45 to 57 degrees F

Frost-free period: 130 to 200 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Satanta and similar soils: 50 percent

Colby and similar soils: 20 percent

Minor components: 30 percent

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

Description of Satanta

Setting

Landform: Paleoterraces

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium

Typical profile

A - 0 to 8 inches: loam

Bt - 8 to 16 inches: clay loam

Bk - 16 to 60 inches: loam

Properties and qualities

Slope: 3 to 5 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: 10 percent

Available water supply, 0 to 60 inches: High (about 9.8 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: R067BY002CO - Loamy Plains

Hydric soil rating: No

Description of Colby

Setting

Landform: Hills

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Loess

Typical profile

A - 0 to 3 inches: silt loam

C - 3 to 60 inches: silt loam

Properties and qualities

Slope: 3 to 5 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 (0.57 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: 15 percent

Available water supply, 0 to 60 inches: High (about 10.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: R067BY002CO - Loamy Plains

Hydric soil rating: No

Minor Components

Manter

Percent of map unit: 15 percent

Sampson

Percent of map unit: 15 percent

Data Source Information

Soil Survey Area: Cheyenne County, Colorado

Survey Area Data: Version 24, Sep 1, 2022

Report — Rangeland Productivity and Plant Composition						
Cheyenne County, Colorado						
Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		<i>Lb/ac</i>	<i>Lb/ac</i>	<i>Lb/ac</i>		<i>Pct</i>
39—Satanta-Colby complex, 3 to 5 percent slopes						
Satanta	R067BY002CO: Loamy Plains	1,600	1,200	800	Western wheatgrass	15
					Needleandthread	10
					Green needlegrass	10
					Miscellaneous perennial forbs	5
					Prairie sandreed	5
					Blue grama	—
Colby	R067BY002CO: Loamy Plains	1,600	1,100	600	Western wheatgrass	25
					Green needlegrass	10
					Sideoats grama	10
					Needleandthread	5
					Sand dropseed	5
					Little bluestem	5
					Blue grama	—



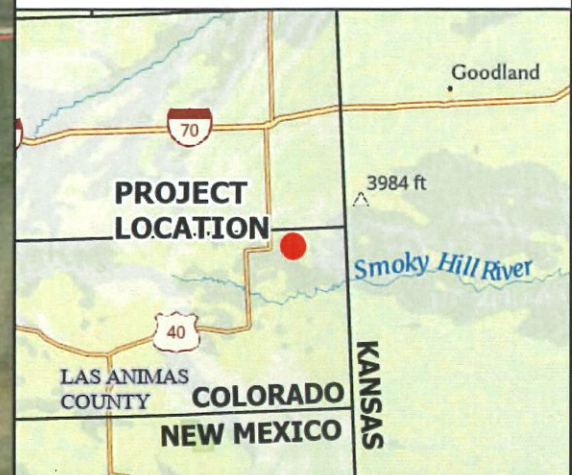
Legend

- Proposed Access Road
- Proposed Oil and Gas Location
- Proposed Working Pad Surface
- One Mile Buffer
- 39--Satanta-Colby complex

Source: NRCS July 2020

Date Saved: 12/27/2022 10:25 AM

0 0.25 0.5
Miles



Wavetech Energy, Inc.
1 Wavetech Hillman Family Trust 43-15
Sec. 15 T12S R43W (NE/4 SE/4)
Cheyenne County, Colorado
Surface: Fee
SOILS

Coordinate System: NAD 83 StatePlane
Colorado South FIPS 0503 Feet



Prepared By:

