

Legend

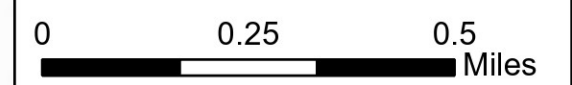
- Proposed Access Road
- Proposed Oil and Gas Location
- Proposed Working Pad Surface
- One Mile Buffer

Soil Type

- BaA, Baca silt loam, 0 to 3 percent slopes

Source: NRCS July 2020

Date Saved: 1/9/2023 11:57 AM



BNL (Enterprise) Inc.
 Jackson 04 L4 3154
 Sec. 4 T31S R54W Lot 4 (NW/4 NW/4)
 Las Animas County, Colorado
 Surface: Fee
SOILS

Coordinate System: NAD 83 StatePlane
 Colorado South FIPS 0503 Feet

Prepared By: REDHAWK GIS

Las Animas County Area, Colorado, Parts of Huerfano and Las Animas Counties

BaA—Baca silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2rh1c
Elevation: 3,610 to 6,230 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

Baca and similar soils: 90 percent
Minor components: 10 percent
*Estimates are based on observations, descriptions, and transects of
the mapunit.*

Description of Baca

Setting

Landform: Interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loess

Typical profile

A - 0 to 3 inches: silt loam
AB - 3 to 6 inches: silty clay loam
Bt1 - 6 to 13 inches: silty clay
Bt2 - 13 to 21 inches: silty clay
Btk - 21 to 27 inches: silty clay loam
Bk1 - 27 to 47 inches: silty clay loam
Bk2 - 47 to 79 inches: silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
*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
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to slightly saline (0.5 to 4.0
mmhos/cm)

Sodium adsorption ratio, maximum: 5.0
Available water supply, 0 to 60 inches: High (about 11.7 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 4c
Hydrologic Soil Group: C
Ecological site: R067BY002CO - Loamy Plains
Forage suitability group: Clayey (G067BW001CO)
Other vegetative classification: Clayey (G067BW001CO), Loamy
Plains #2 (067XY002CO_2)
Hydric soil rating: No

Minor Components

Manzanst

Percent of map unit: 5 percent
Landform: Fan remnants, interfluves
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R067BY042CO - Clayey Plains
Other vegetative classification: Clayey (G067BW001CO), Clayey
Plains #42 (067XY042CO_2)
Hydric soil rating: No

Wiley

Percent of map unit: 5 percent
Landform: Interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R067BY002CO - Loamy Plains
Other vegetative classification: Loamy (G067BW017CO), Loamy
Plains #2 (067XY002CO_2)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Las Animas County Area, Colorado, Parts of Huerfano and
Las Animas Counties
Survey Area Data: Version 25, Sep 7, 2022



Las Animas County Area, Colorado, Parts of Huerfano and Las Animas Counties



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>
BaA—Baca silt loam, 0 to 3 percent slopes						
Baca	R067BY002CO: Loamy Plains	1,800	1,300	600	Blue grama	30
					Western wheatgrass	25
					Green needlegrass	10
					Buffalograss	5
					Winterfat	5
					American vetch	3
					Scarlet globemallow	2
					Purple prairieclover	2
					Sand dropseed	2
					Sun sedge	2