

## Map Unit Description

Cortez Area, Colorado, Parts of Dolores and Montezuma Counties

### Map Unit 42 (Gladel-Pulpit complex, 3 to 9 percent slopes)

#### Setting

Elevation: 6200 to 7400 feet  
Mean annual precipitation: 13 to 16 inches  
Mean annual air temperature: 46 to 50 degrees F  
Frost-free period: 100 to 120 days

#### Composition

Gladel and similar soils: 45 percent  
Pulpit and similar soils: 35 percent

#### Description of Gladel

##### Setting

Landform: Hills, mesas  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Eolian deposits over residuum weathered from sandstone  
Slope: 3 to 9 percent  
Depth to restrictive feature: 12 to 20 inches to lithic bedrock  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Very low or moderately high (0.00 to 0.20 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Very low (about 1.6 inches)

#### Properties and Qualities

##### Interpretive Groups

Land capability (non-irrigated): 6s  
Ecological site: PINYON-JUNIPER (R035XY909CO)

##### Typical Profile

0 to 5 inches: flaggy fine sandy loam  
5 to 10 inches: flaggy fine sandy loam  
10 to 15 inches: flaggy fine sandy loam  
15 to 25 inches: unweathered bedrock

#### Description of Pulpit

##### Setting

Landform: Mesas, hills  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Eolian deposits derived from sandstone  
Slope: 3 to 9 percent  
Depth to restrictive feature: 20 to 40 inches to Lithic bedrock  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Very low or moderately high (0.00 to 0.20 in/hr)

Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 6.4 inches)

**Properties and Qualities**

**Interpretive Groups**

Land capability classification (irrigated): 4e  
Land capability (non-irrigated): 4e  
Ecological site: Loamy Foothills (R036XY284CO)

**Typical Profile**

0 to 10 inches: loam  
10 to 20 inches: loam  
20 to 36 inches: loam  
36 to 46 inches: unweathered bedrock

## **Map Unit Description**

Cortez Area, Colorado, Parts of Dolores and Montezuma Counties

### **Map Unit 145 (Wetherill loam, 6 to 12 percent slopes)**

#### **Setting**

Elevation: 6200 to 7400 feet  
Mean annual precipitation: 13 to 16 inches  
Mean annual air temperature: 46 to 50 degrees F  
Frost-free period: 100 to 120 days

#### **Composition**

Wetherill and similar soils: 80 percent  
Minor components: 1 percent

#### **Description of Wetherill**

##### **Setting**

Landform: Hills, mesas  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Eolian deposits derived from sandstone  
Slope: 6 to 12 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 30 percent  
Gypsum maximum: 0 percent  
Sodium adsorption ratio maximum: 4.0  
Available water capacity: High (about 11.0 inches)

#### **Properties and Qualities**

##### **Interpretive Groups**

Land capability classification (irrigated): 4e  
Land capability (non-irrigated): 4e  
Ecological site: Loamy Foothills (R036XY284CO)

##### **Typical Profile**

0 to 3 inches: loam  
3 to 7 inches: loam  
7 to 48 inches: clay loam  
48 to 60 inches: loam

##### **Aquents**

Percent of map unit: 1 percent  
Landform: Drainage ways