

# Map Unit Description

Cortez Area, Colorado, Parts of Dolores and Montezuma Counties

## 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

#### Properties and Qualities

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)

#### 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

#### Properties and Qualities

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)

#### Interpretive Groups

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

#### Typical Profile

0 to 10 inches: loam

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10 to 20 inches: loam

20 to 36 inches: loam

36 to 46 inches: unweathered bedrock