

# PEDON 04

## SITE INFORMATION

The site is in SE New Mexico. Vegetation is creosote bush with scattered broom snakeweed, black grama and tabosa grass. Elevation about 2190 ft.

## LANDFORM

3.8% sloping to the west on an alluvial fan.

## HILLSLOPE POSITION



## SOIL MOISTURE AND TEMPERATURE REGIMES

Soil temperature regime is hyperthermic. Soil moisture regime is aridic (a.k.a. torric).

## SOIL PIT INFORMATION

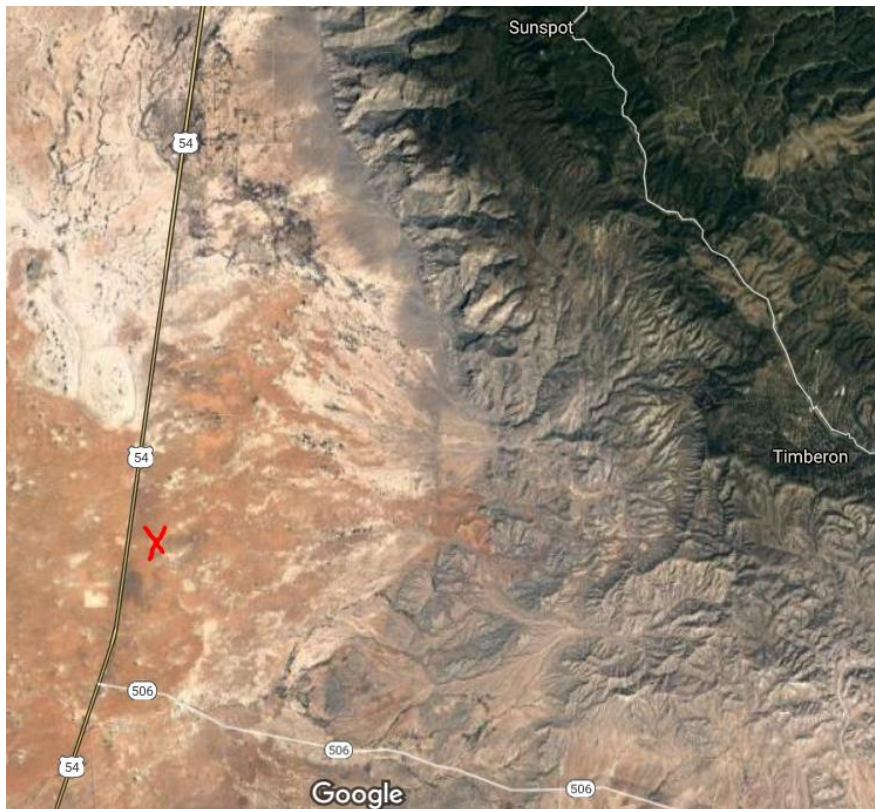
The soil formed in alluvium. Clay content is very low in all the soils of the region. Deeply buried bedrock is andesite and rhyolite, with sandstone in the Mountains to the west. Soils of the area are strongly alkaline. There is evidence of clay illuviation in the 3<sup>rd</sup> horizon. Sand is dominantly fine size with some very fine size. Textures vary with depth as to be expected on an alluvial fan. The 4<sup>th</sup> and 5<sup>th</sup> horizons are indurated, and the 4<sup>th</sup> has a laminar cap about 2 cm thick across the entire pit face.

## CHARACTERIZATION DATA (6 horizons to 200 cm)

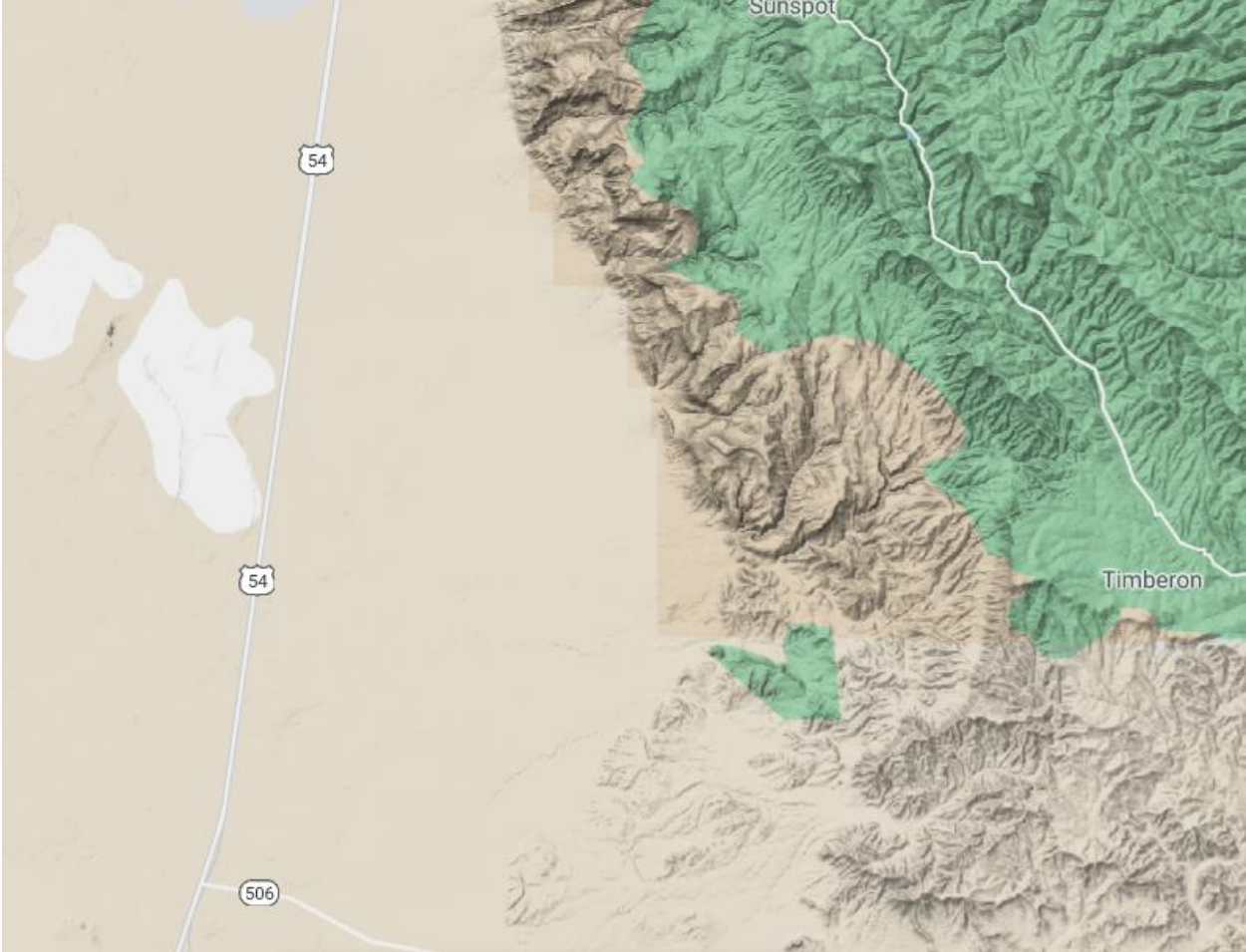
Horizon	OC %	Base Sat %	pH (water)	CaCO <sub>3</sub> equiv	% visible carbonates
1	0.27	95	7.5	1	0
2	0.05	100	7.7	10	4
3	0.02	100	7.6	12	8
4	0.01	100	7.8	87	98
5	0.01	100	7.8	79	95
6	Tr	100	7.9	23	35

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## SITE IMAGE



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## PROFILE IMAGE



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## SCORECARD

**SCORECARD  
VIRTUAL NATIONAL  
SOIL JUDGING  
CONTEST  
APRIL 5-16, 2021**

1. _____
2. _____
3. _____
4. _____
5. _____
<b>Total</b>

Contestant: \_\_\_\_\_  
 School: PRACTICE  
 Pedon Number: 04

### 1. Soil Morphology

Score:

Horizonation		Boundary		Texture							Color			Structure		Cons.	Soil Features			Score	
Master		Sub. (5)	No. (5)	Dep. (cm)	Dist.	Sand (%)	Silt (%)	Clay (%) (5)	CF (%)	CF mod. (5)	Class (5)	Hue	Value	Chr.	Grade	Shape	Moist Strength	Redox		Eff.	(35)
Pre. (5)	Let. (5)																	Depl.	Conc.		
				20	A	53	32		1			7.5 YR	4	4	1	SBK	FR	-	-	SL	
				61	C	46	31		2			7.5 YR	5	6	2	SBK	FR	-	-	ST	
				110	A	34	38		1			7.5 YR	5	4	2	SBK	FR	-	-	ST	
				133	A	55	23		5			10 YR	7	2	0	MA	XFI	-	-	VE	
				170	A	57	19		5			10 YR	8	1	0	MA	XFI	-	-	VE	
				200+	-	25	50		3			7.5 YR	5	4	0	MA	FR	-	-	ST	

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## 2. Soil Profile Characteristics

Score:

Hydraulic Conductivity (10)		Loading Rate at 75 cm (5)	Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
Surface (5) ___ High ___ Mod. ___ Low	Limiting Layer (5) ___ High ___ Mod. ___ Low	___ gpd/ft <sup>2</sup> (3)  Ref. (2) ___	___ V. shallow (<25 cm) ___ Shallow (25 to 49 cm) ___ Mod. deep (50 to 99 cm) ___ Deep (100 to 149 cm) ___ Very deep (≥150 cm)	___ Very low (< 7.5 cm) ___ Low (7.5 to < 15 cm) ___ Mod. (15 to < 22.5 cm) ___ High (≥ 22.5 cm)	___ (> 150 cm) ___ (100 to 150 cm) ___ (50 to 99 cm) ___ (25 to 49 cm) ___ (< 25 cm)

## 3. Site Characteristics

Score:

Parent Material (GIVEN)	Landform (GIVEN)	Slope (GIVEN)	Slope Profile (5)	Surface Runoff (5)	Eros. Pot. (5)
Alluvium	Alluvial FAN  (hypertrophic acidic)	3.8%	___ Summit ___ Shoulder ___ Backslope ___ Footslope ___ Toeslope ___ None	___ Ponded ___ Very slow ___ Slow ___ Medium ___ Rapid ___ Very rapid	___ Very Low ___ Low ___ Medium ___ High ___ Very High

## 4. Soil Classification

Score:

Epipedon (5)	Subsurface horizons and/or diagnostic features (5 each)	Order (10)	Suborder (10)	Great Group (10)

## 5. Interpretations

Score:

Houses with Basements (3)	Septic Tank Abs. Fields (3)	Local Roads and Streets (3)	Corn (3)	Hopyards (3)	Created Wetlands (3)
___ Slight ___ Moderate ___ Severe	___ Slight ___ Moderate ___ Severe	___ Slight ___ Moderate ___ Severe	___ Slight ___ Moderate ___ Severe	___ Slight ___ Moderate ___ Severe	___ Slight ___ Moderate ___ Severe
Reason # (2): ___	Reason # (2): ___	Reason (2): ___	Reason (2): ___	Reason (2): ___	Reason (2): ___