

PEDON 10

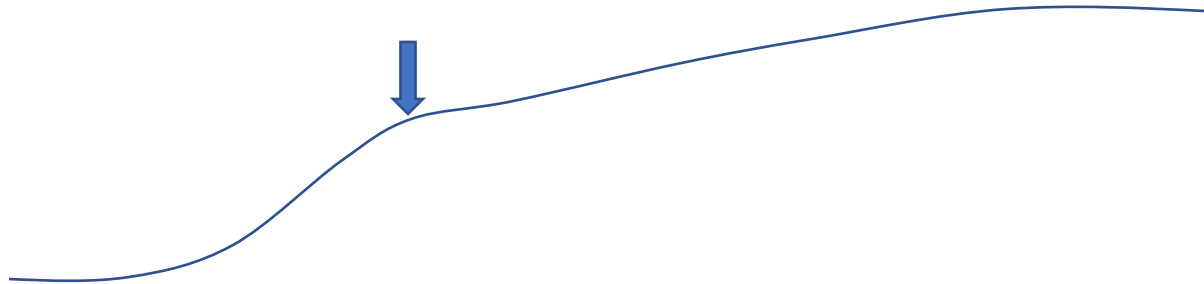
SITE INFORMATION

The pedon is located in Mine Ridge, NC. Soils of uplands in the Southern Blue Ridge Mountain region of NC are typically formed in mafic crystalline rock of igneous or metamorphic origin. In this soil it is greenstone metamorphic rock. The site was logged twice in its history and the site was prepared for replanting Christmas trees. Vegetation was sprayed to prevent competition with trees and ground cover is sparse grasses and weeds between the young trees. The site has no ponding or flooding.

LANDFORM

15% slope, W aspect. Sloping upland (nose slope) at 3800 ft.

HILLSLOPE POSITION



SOIL MOISTURE AND TEMPERATURE REGIME

Udic soil moisture and frigid soil temperature regime.

SOIL PIT INFORMATION

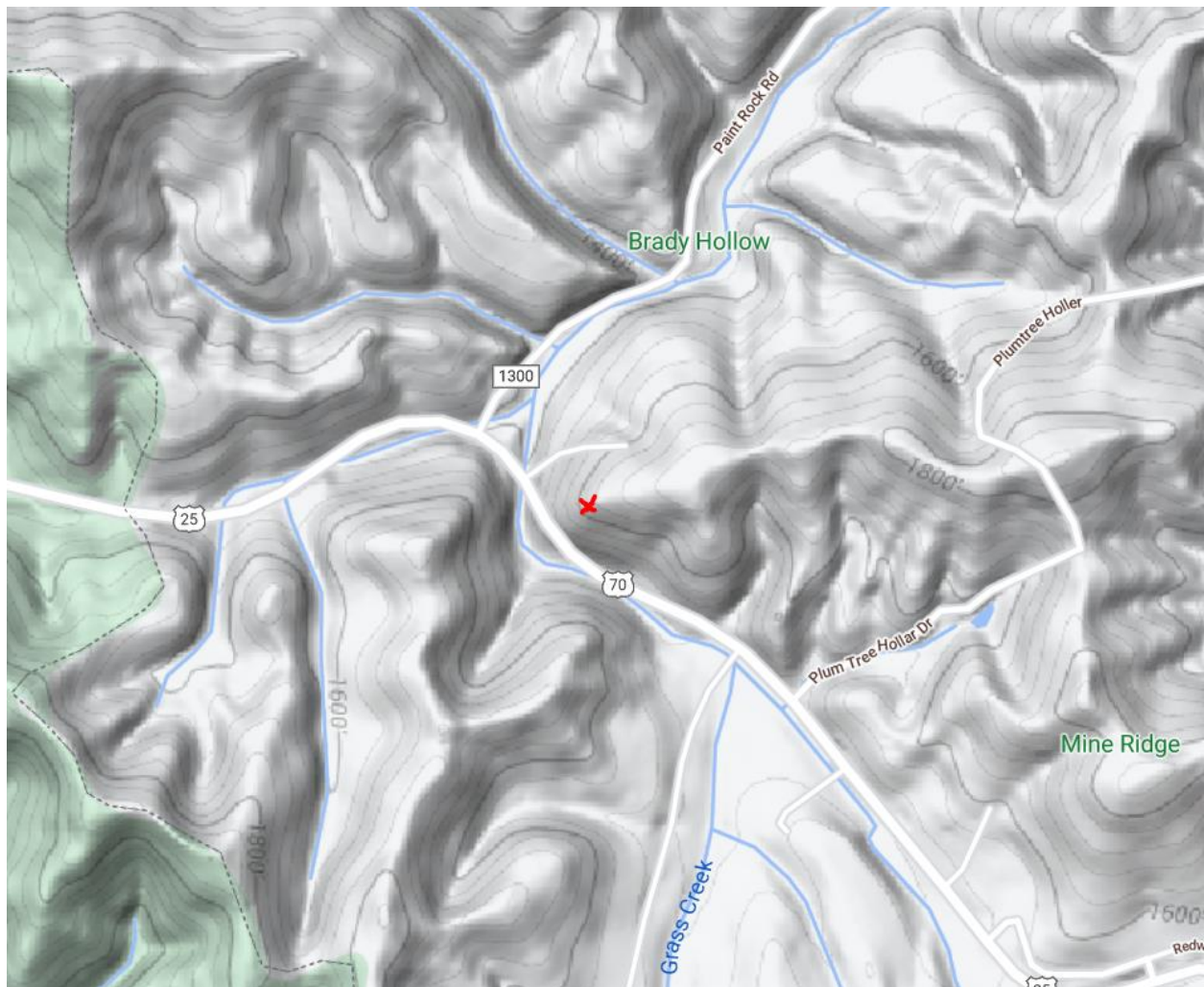
The bottom horizon begins exactly at 72 cm, therefore no plus sign is used in the lower depth of the bottom horizon to indicate it extends below the judging depth, and a boundary distinctness is given in this residual soil. There are no clay films in any horizon. Rock fragments are non-rounded gravels and cobbles of greenstone metamorphic rock.

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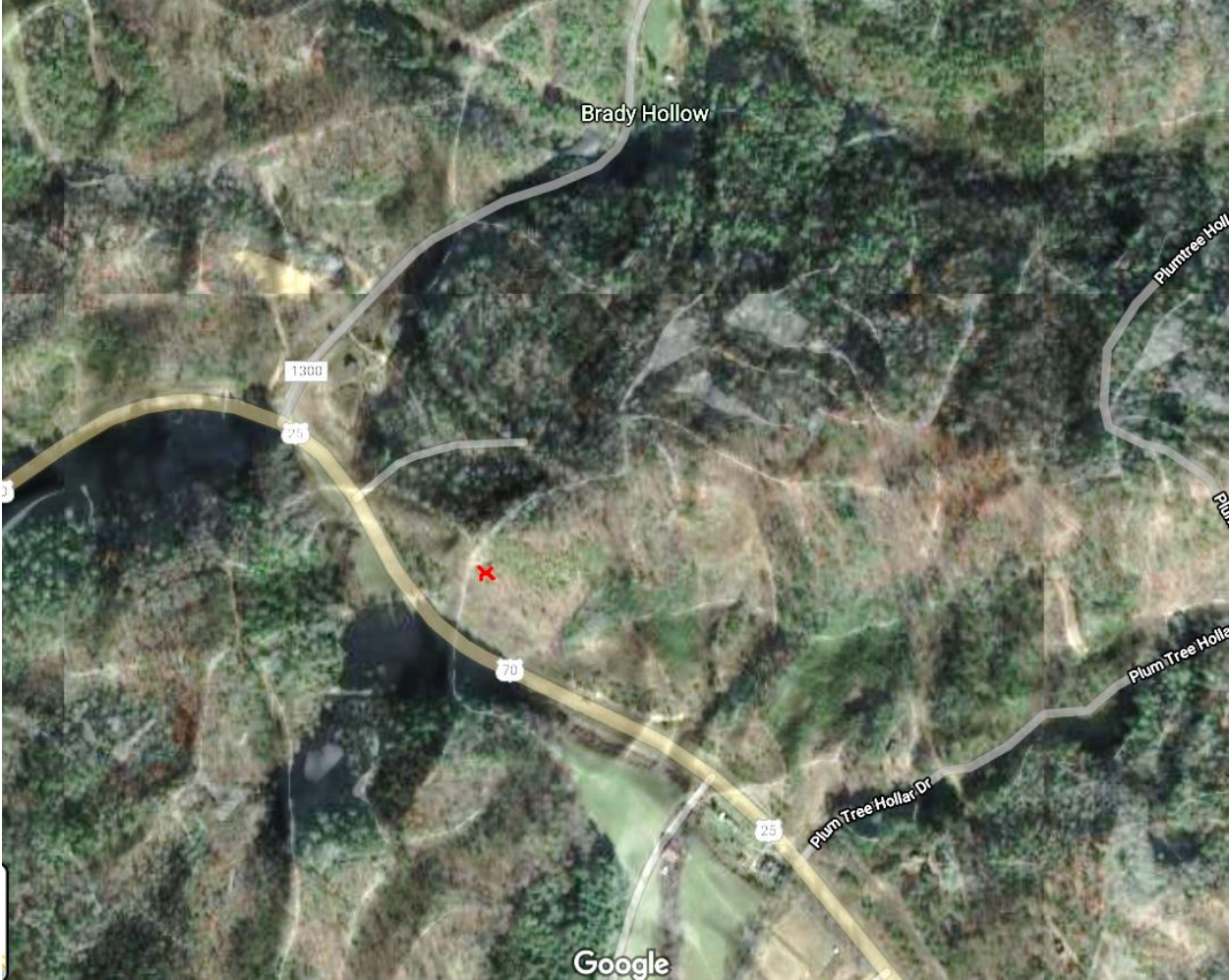
CHARACTERIZATION DATA

Horizon	Base Sat%	CEC	OC	CaCL2 pH	CaCO3 equiv
1	40	25	2.55	5.4	0
2	38	20	0.31	5.3	0
3	37	19	0.16	5.0	0
4	36	19	0.22	4.4	0
5	35	18	0.15	4.8	0
6	--	--	--	--	--

SITE IMAGES



PEDON 10



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PEDON IMAGE



PEDON 10

SCORECARD BLANK

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

1.	_____
2.	_____
3.	_____
4.	_____
5.	_____
Total	_____

Contestant: _____
 School: PRACTICE
 Pedon Number: 10

1. Soil Morphology

Score:

Horizonation			Boundary		Texture					Color			Structure		Cons.	Soil Features		Score				
Master Pre. (5)	Let. (5)	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)	
																		Depl.	Conc.			
				15	A	51	35		11			10 YR	3	2	1	SOK	NR	-	-	-		
				28	c	46	37		1			10 YR	5	3	1	SBK	FR	-	-	-		
				41	c	43	39		5			7.5 YR	5	4	1	SBK	FR	-	-	-		
				59	C	40	40		2			7.5 YR	3	4	2	SBK	FR	-	-	-		
				72	A	42	40		6			7.5 YR	3	4	2	SBK	FR	-	-	-		
				200+	-	-	-		-			-	-	-	-	-	-	-	-	-		

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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 Wellness Class (5)
Surface (5) _____ High _____ Mod. _____ Low _____	Limiting Layer (5) _____ High _____ Mod. _____ Low _____	_____ gpd/ft ² (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)
RESIDUUM	SCARPING UPLAND	15%	_____ 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): _____