

## Soil pit description: PF15

**Images:** PF15\_01.jpg, PF15\_02.jpg

**Soil class:** Poacher  
**Map unit:** P  
**Location:** 20m E of trail marker 2 on Wetmore  
**Site position:** Lower slope  
**Slope:** 8%, concave  
**Parent material:** Caimito marine sedimentary facies  
**Forest structure:** Closed canopy, moderate understory, few palms  
**Litter:** 80%cover, 4 layers, fine root mat  
**Outcrops:** None  
**Stones:** Common moderate sized hard boulders  
**Cracks:** None  
**Microrelief:** None  
**Faunal activity:** Few fine worm casts  
**Other surface features:** None

<b>Horizon [cm]</b>		<b>Samples [cm]</b>
<b>0 - 10</b>	5YR 3/2 (dark reddish brown); no mottles; humic silty loam; weak medium & fine crumb, including many fine & medium worm casts; no cutans; many fine & medium pores; moist & friable; many fine, many medium & fine tree roots; no stones; no concretions; no charcoal; clear regular boundary to:	[0-10]
<b>10 - 20</b>	5YR 3/4 (dark reddish brown); no mottles; silty clay; moderate medium & coarse breaking to fine crumb, including common patches of fine worm casts; weak continuous clayskins; common medium & fine pores; moist & friable; common fine & few medium & rare coarse tree roots; few fine hard grey stones; no concretions; no charcoal; diffuse boundary to:	[10-20]
<b>20 - 35</b>	5YR 4/4 (dark reddish brown), no mottles; silty clay; moderate medium & coarse platy breaking to moderate medium crumb, including few fine ant nest fragments; moderate continuous clayskins; few fine & medium pores; moist & slightly friable; rare coarse, & few medium & fine tree roots; few medium hard grey stones; no concretions; no charcoal; diffuse boundary to:	[20-30]
<b>35 - 135</b>	5YR 4/6 (yellowish red), no mottles; sandy clay; moderate medium & coarse platy breaking to moderate medium crumb, including rare fine – coarse fragments of ant nest; moderate continuous clayskins; common fine & medium pores; moist & firm; few fine & medium tree roots; no stones; no concretions; no charcoal; diffuse boundary to:	[30-40]
		[40-50]
		[50-60]
		[60-70]
		[70-80]
		[80-90]
<b>135-160+</b>	2.5YR 4/6 (yellowish red); no mottles; clay loam; weak fine - coarse subangular blocky breaking to moderate fine crumb, including few fine worm casts; moderate continuous clayskins; common medium & fine pores, including few fine faunal channels; slightly moist & friable; few fine & medium tree roots; few fine quartz grit; common fine black ferrimanganiferous concretions; no charcoal	[90-100]
		[100-110]
		[110-120]
		[120-130]
		[130-140]
		[140-150]
		[150-160]

### **Correlations**

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**Catapan (1970):**      O T W Cf 1  
                                 E B    1 0

**World Reference Base:** Ferralic Chromic Luvisol

**Soil Taxonomy:**      (Eutrudoxic) Hapludalf

**Features:**              Distinct clayskins and clay increase is clear and systematic, so the subsoil appears moderately argillic, with a slight clay bulge. Preferred EBS indicates that top metre is eutric, but lower subsoil is marginally dystic. Possibly inflated CEC suggests that whole solum is dystic.