

**Project Name:** Hunter Valley Soil Survey  
**Project Code:** HV **Site ID:** CP360 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	C.J. Chartres	<b>Locality:</b>	Denman Gap.
<b>Date Desc.:</b>	05/04/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9033 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	150.67	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-32.36	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Escarpment
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Moderately inclined
<b>Slope:</b>	20 %	<b>Aspect:</b>	360 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Red Sodosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red podzolic soil
Confidence level not specified			

**Site Disturbance:**

**Vegetation:**

Tall Strata - Tree, , . \*Species includes - Eucalyptus species

**Surface Coarse Fragments:**

**Profile Morphology**

A11	0 - 0.1 m	; Loamy coarse sand; 50-90%, medium gravelly, 6-20mm, rounded, Sandstone, coarse fragments; Many, fine (1-2mm) roots; Gradual, Smooth change to -
A21	0.1 - 0.4 m	Brown (7.5YR5/4-Dry); ; Loamy coarse sand; 50-90%, medium gravelly, 6-20mm, rounded, Sandstone, coarse fragments; Common, fine (1-2mm) roots; Gradual, Smooth change to -
A22	0.4 - 0.8 m	Pink (5YR7/3-Dry); ; Loamy sand; 50-90%, medium gravelly, 6-20mm, rounded, Sandstone, coarse fragments; Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B2	0.8 - 1.1 m	Dark reddish brown (5YR3/3-Dry); ; Sandy light clay; 20-50%, medium gravelly, 6-20mm, rounded, Sandstone, coarse fragments; Few, fine (1-2mm) roots;

**Morphological Notes**

A22 Larger tree roots also present.

**Observation Notes**

Vegetation: Dry sclerophyll Eucalypt woodland.

**Site Notes**

Profile sampled, over 40 cm laterally, from a road cut (very hard and gravelly). Lees Pinch land system.

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[illegible]

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**Laboratory Analyses Completed for this profile**

15_NR_AL	Exchangeable aluminium - method not recorded
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
3A1	EC of 1:5 soil/water extract
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
6A1	Organic carbon - Walkley and Black
9B1	Bicarbonate-extractable phosphorus - manual colour