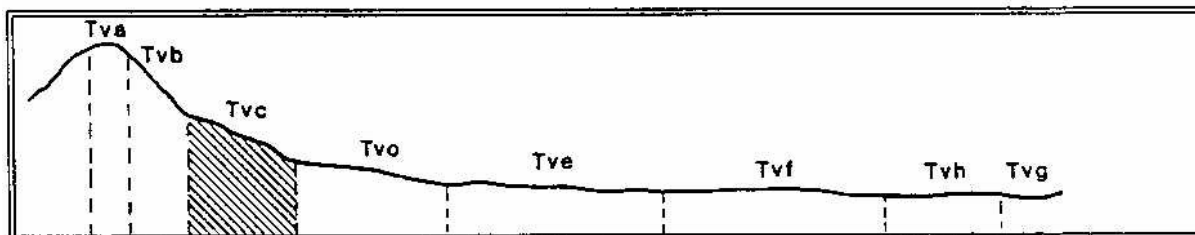


<b>Map Unit:</b>	TERTIARY VOLCANIC, MODERATE SLOPE	<b>Map Unit Symbol:</b> Tvc
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**General Description:**

These moderate slopes are associated with the volcanic extension points of Hanging Rock, Camels Hump and the Jim Jim. The droughty nature of the gradational soils is a product of the shallow profiles and the very rapid permeability, but pasture growth can be maintained because of the favourable distribution of rainfall into the summer and autumn months.

**Site characteristics: Site No. 10**

<b>Parent material</b>	Tertiary Volcanic	<b>Depth seasonal watertable:</b>	> 5 m
<b>Age:</b>			
<b>Lithology:</b>			
<b>Landform</b>	Gently undulating plain with isolated cones	<b>Potential recharge to groundwater:</b>	Very high
<b>Pattern:</b>			
<b>Element:</b>	Moderate slopes		
<b>Slope common:</b>	15%	<b>Flooding risk:</b>	Nil
<b>range:</b>	10 – 32%		
<b>Rock outcrop:</b>	5%	<b>Drainage:</b>	Well drained
		<b>Depth to hardrock:</b>	0.7 m
		<b>Proportion of Shire:</b>	0.6%

**Native vegetation:** Messmate, Narrow-leaf Peppermint  
**Present land use:** Grazing (native and introduced species)

<b>Land degradation:</b>	<b>Water erosion</b>		<b>Wind</b>	<b>Salting</b>	<b>Acidification</b>
	<b>Sheet/rill</b>	<b>Gully</b>			
Susceptibility	Very high	Very low	Low	Very low	Low
Incidence	Low	Nil	Nil	Nil	Low

**Soil profile characteristics:**

Permeability (measured - average, range): (estimated):	13,700, 9m560 – 21,550 mm/d -
Available water capacity:	130 mm H <sub>2</sub> O
Linear Shrinkage (B horizon):	3%

**Soil profile description:**

<b>A<sub>1</sub></b>	0-18 cm	Dark brown (7.5YR 3/4) loam, strong subangular blocky structure 7 mm, smooth fabric, very weak consistence, <2% ferruginous gravel, pH 6.0. Abrupt transition to
<b>A<sub>2</sub></b>	18-30 cm	Strong brown (7.5YR 4/6) clay loam, weak subangular blocky structure 8 mm, smooth fabric, weak consistence, <2% ferruginous gravel, pH 5.6. Clear transition to
<b>B<sub>21</sub></b>	30-55 cm	Strong brown (7.5YR 4/6) light clay, moderate subangular blocky structure 15 mm, smooth fabric, weak consistence, <2 mm medium subangular gravel pH 5.7. Clear transition to
<b>B<sub>22</sub></b>	55-70 cm	Yellowish red (5YR 4/6) light clay, weak subangular blocky structure 15 mm, smooth fabric, weak consistence, <2% subangular parent material, pH 5.7. Clear transition to
<b>C</b>	70+ cm	Parent material.

**Soil classification:**

Factual Key (Northcote):                   Gn 3.24  
 Australian Soil Classification:       Haplic Dystrophic Brown Dermosol, moderate, medium loamy, non-gravelly  
 Unified Soil Group:                         NA

**Interpretation of soil analyses\***

Horizon	pH	Gravel	E.C.	Nutrient status	P	K	Al	Org. matter	Dispersibility
A <sub>1</sub>	6.0	<1	VL	M	D	S	S	H	M
A <sub>2</sub>	5.6	5	VL	L	D	S	S	H	M
B <sub>21</sub>	5.7	< 1	VL	VL	D	S	S	L	M
B <sub>22</sub>	5.7	< 1	VL	L	D	S	S	VL	M

VL : Very Low                   L : Low                   M : Moderate                   H: High                   VH : Very High  
 D: Deficient                   S: Satisfactory       T: Toxic                   \*\* Acid                   NA : Not available

**Land capability assessment**

Land use	Class	Major limiting feature (s)
Agriculture (CTS values)	C <sub>3</sub> T <sub>4</sub> S <sub>5</sub>	Very high susceptibility to sheet/rill erosion. (Steep slopes, shallow soils = Class 4)
Effluent disposal (septic tanks)	4	Shallow depth to hard rock
Farm dams (earthen)	5	Shallow depth to hardrock, excessive permeability
Building foundations * slab * stumps/footings	4 3	Moderately steep slopes Moderate slopes