

Mountains, Hills and Ranges

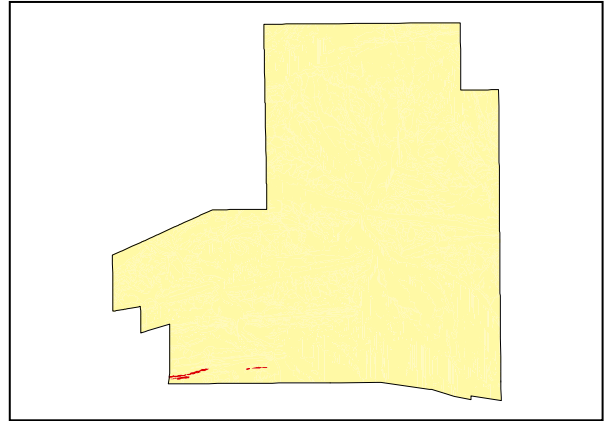
LAND UNIT 1.17
Meerenie Sandstone Ranges

DESCRIPTION: Ranges and Hill Crests of Meerenie Sandstone with White Cypress Pine, over Hillside Spinifex.

SITES: 109, 131



Distribution of land unit.



Area = 0.42 km², 0.13% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	30
RELIEF (m)	100
SOIL DEPTH (m)	0.10
SURFACE CONDITION	Loose
DEPTH to SUBSTRATE (m)	0.00 to 0.10
REACTION TREND (pH)	6.0
OUTCROP (%)	80
RUNOFF	Rapid
PERMEABILITY	Highly permeable
DRAINAGE	Rapidly drained
SALINITY (µs/cm)	42.5

DEVELOPMENT RISKS	
EROSION	Slight
ROCK FALL	Severe
SHEET FLOODING	None
INUNDATION	None
SALINITY	None
ALKALINITY	None
ACIDITY	Very Slight

CAPABILITY CLASS					
Formed Roads	Shallow excavations	Septic Disposal	Horticulture	Building Foundations	Landscaping
Very Poor	Very Poor	Very Poor	Very Poor	Poor	Very Poor

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TECHNICAL DETAILS**LAND UNIT 1.17****DESCRIPTION:** Rugged Ranges and steep outcrops of Meerenie Sandstone.**GEOLOGY:** Devonian Meerenie Sandstone. A hard surficial weathering crust covers white, poorly cemented, well-sorted sandstone.**LANDFORM:** The Steep strike ridge hills of the Meerenie Sandstone form a broken range that trends generally east west. Jointing and fractures within the unit enable rapid permeability and drainage. Relief of up to 100m and slopes of about 30% allow rapid runoff.**SOIL:** Example from **Site 131**.
MGA. Coords: 7366286mN, 374692mE.**CLASSIFICATION:** Lithosol. Rudosol - RU, CY, CZ, AR, H, L, T**SURFACE:** 10% <2.0m subrounded tabular large sandstone boulders. 30% 600-2.0m subrounded tabular sandstone boulders.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY ($\mu\text{s/cm}$)	OTHER DETAILS
0.00 - 0.10	A1	Sandy loam (SL)	6.0		Dark reddish brown (2.5YR3/4). 20% 2-6mm subrounded tabular fine quartz gravel and 5% 6-20mm subrounded tabular medium fine quartz gravel.

VEGETATION: **Site 76** (Albrecht, D. and Pitts, B. 1999).

UPPER STRATUM - Open woodland	
Dominant species	White Cypress Pine,
Other species	Bloodwood, Ghost Gum, Supplejack
MID STRATUM - Open shrubland	
Dominant species	
Other species	Mulga, Witchetty Bush, Dead Finish, Ruby Saltbush, Bush Banana, Clements Paspalidium, Knottybutt Paspalidium, Silver Cassia, Blunt-leaf Cassia,
LOWER STRATUM - Sparse grassland	
Dominant species	Hillside Spinifex
Other species	Desert Lantern Flower, Hairy Joyweed, Boggabri, Pale-leaf Mistletoe, Flat-awned Threawn, Native Current, Wild Orange, Buffel Grass, Woolly Cloak Fern, Mulga Fern, Hill Everlasting, Tickweed, Lemon-scented Grass, Cotton Panic Grass, Hill Sticky Hopbush, Purplehead Nineawn, Woollyoat Grass, Woollybutt Grass, Purple Lovegrass, Mountain Wanderrie, Caustic Weed, Tropical Speedwell, Native Fig, Native Jasmine, Green Peppergrass, <i>Maireana campanulata</i> , Native Tobacco &/or Long-flowering Tobacco, <i>Olearia stuartii</i> , <i>Ozothamnus kempei</i> , Silver-leaf Mint-bush, Silver Tails, Tall Saltbush, Berry Saltbush, Plumbush, Tall Copper Burr, Fire Sida, Shrub Sida, Potato Bush, Wild Tomato, Mulga Grass, Five-minute Grass.

(See Appendix 3 for botanical names)