

STRATIGRAPHY

The Mt. Read Volcanics can be broadly subdivided into an older massive rhyolitic subaerial sequence of quartz feldspar ignimbrites and lavas of a flow dome complex. A younger sequence of fine-coarse grained volcanoclastics and minor rhyolite lava flows and an isolated andesitic plug like body. These clastics may be Tyndall Group equivalents, they appear to be conformably overlain by the Cambro-Ordovician Owen Conglomerate.

The Owen occurs within the valley as two NW trending synclinal and plunging fold cores. In the north-western sector of the EL area the Owen is overlain conformably by limestone, siltstone, sandstone of the Junee and Eldon Groups.

Mt. Read Volcanics

1. Ignimbrites, these have been interpreted as subaerial ignimbrites on the basis of -

- the dominant rock type is a fine-medium grained volcanic with feldspar and/or quartz phenocrysts to 3 mm set in fine siliceous groundmass.
- massive, evidence of bedding, flowbanding and reworking is absent, occasionally contain lithics including fiamme.
- waterlaid sediments absent or very minor part of sequence, some very fine grained massive lenses do occur, these interpreted as co-ignimbritic ash.