

The geology of Mount Taranaki/Egmont



The igneous rocks of Mount Taranaki and their origin.

Mount Taranaki is made up of an igneous rock called andesite. Andesite is a fine-grained volcanic rock that is found in stratovolcanic form volcanoes. These volcanoes have steep sides and look like how volcanoes are drawn.

Andesite is a mixture rock made where the Pacific plate dips under the North Island. Andesite flows slowly. The rock type forming on the subducting plate is andesite and occurs due to melting of the Pacific plate. Andesite is erupted in a volcanic eruption. (1)

Andesitic volcanoes produce lava that is fairly viscous and does not travel far. The maximum lava flow on Mount Taranaki is about 15 km long. Andesitic volcanoes are quite high and have steep sides because of the thick lava. When the volcano is not erupting lava it erupts ash deposits so the mountain is layered with ash layers and lava flows. The ash deposits are very weak. (2)