

GEOLOGYA STRATIGRAPHY

The stratigraphic column of rocks in the Lynch Creek area may be summarised briefly:-

Recent	Alluvium Gravels
Siluro-Devonian	Eldon Group Crotty Quartzite
Ordovician	June Group Gordon Limestone Jukes Conglomerate
Cambrian	Dundas Group Shales and sandstones Mt. Read Volcanics Acid Volcanics Acid Tuffs Intermediate Crystal Tuffs Andesites

CAMBRIANMt. Read Volcanics

Andesites:

These are dark green, hard rocks. The texture is generally porphyritic with a pilotaxitic matrix. The main minerals contained are sericitised feldspar, chlorite-epidote sometimes replacing a ferromagnesian mineral and pyroxene with magnetite, tremolite, and some pyrite as accessories. Epidote, chlorite and tremolite are generally alteration products as a result of mild shearing under conditions of low temperature and pressure. In some outcrops, the rock is strongly sheared (sample "D") and phenocrysts have been brecciated. This rock has been described as "syenite porphyry" or "porphyrite" in early literature describing the King Gold Mine.

Olivine basalt was thought to occur in sporadic outcrops although on reference to the petrographic reports, it is probable that olivine may have been mistaken for epidote.