

Age	Formation	Unit	Thickness	Remarks
Precambrian	Davey Group	Quartzite	300m ?	Thick bedded grey quartzite with minor interbedded shales and siltstones. Contorted quartzite, shales and siltstones. Outside licence area.

Schists, quartzites and slates of the Precambrian Davey Group outcrop to the west and south-west of the area. They are overlain by quartzites, siltstones and shales of the Donah Formation which at Mt. Lindsay, as at Renison, are regarded as possibly lower Cambrian. The Donah Formation is in turn conformably overlain by tuffs (crystal and lithic) argillitic sediments and thin carbonate rich beds of the Crimson Creek Formation.

Sulphide mineralisation is widespread particularly in the 1-2 km. wide metamorphic aureole surrounding the Meredith Granite. Within this aureole, the rocks have generally been hornfelsed and carbonate rich horizons have been extensively altered and sometimes replaced by massive pyrrhotite-pyrite-magnetite-cassiterite mineralisation (e.g.) the main lode at Mt. Lindsay.

Small tin veins also occur in the Meredith Granite.

The Geology of the Mt. Lindsay and Misty Valley Grid areas is discussed in more detail below.

Geological fact and interpretative plans are appended to this report.

8. MISTY VALLEY GRID AREA:

8.1. General:

This area was defined as one of interest by the Turair-Airmag. survey of 1972-73. The airborne anomaly was defined by this survey as:- Conductor 19, Anomalies 143, 144, 146, 800m. long, 200 gamma magnetic response, weak phase anomaly, depth 120m., low conductive-thickness factor, and of secondary interest.

It was decided to look further at this area as the Mt. Lindsay road passed very close to it and thus provided easy access.