GEOLOGY

The Mt. Read volcanics can be subdivided into three north trending belts on the basis of Corbett's Western and Central sequence, and more detailed mapping by Komyshan in the Central Volcanics.

The Western Sequence is composed of quartz feldspar porphries, quartz phyric pyroclastics and tuffaceous greywackes. The porphyries may be partly intrusive and extrusive. From the lack of early prospecting reports and 1982 stream sampling this unit is of little exploration interest. Most of the unit having been exised in 1983.

East of this unit a 1.5 km wide zone of massive, homogeneous rhyolitic lavas and ignimbrites are exposed. In the northern Whip Spur area these are overlain by a more andesitic sequence. The rhyolite lavas were traversed this season in South Conglomerate Creek, here they are mainly unaltered. Columnar jointing indicating that they may be flat lying. The Mt. Ellen Gold Mine is the only prospect located within this belt, Jukes Proprietry is probably stratigraphically positioned on the eastern flank. From 1982 stream sampling the Mt. Ellen area is evident from gold values to 1.27 ppm (see Figure 3), in addition clusters of weakly anomalous golds occur on this unit that haven't been investigated.

The eastern belt of volcanics is 500-1500 m wide, and is