A TENNANTITE OCCURRENCE
McGILLIVRAY CREEK–LYTTON/LILLOOET AREA
(92I/5E)

By G.P.E. White

This showing is located on the Alice (Lot 1073) claim, latitude 50 degrees 29 minutes, longitude 121 degrees 42 minutes, on the north side of McGillivray Creek east of the Lytton/Lillooet highway. The area is accessible by a four-wheel-drive vehicle or on foot.

A series of basalt to rhyolite flows and flow breccias are in sinuous contact with diorite and quartz diorite of the Mount Lytton batholith (Fig. 37).

Within the volcanic sequence, conformable siliceous dolomite breccia and siliceous limestone crop out along the crest of a south to east-facing hill.

Tennantite, with what appears to be secondary chalcocite veinlets, occurs as ribbon-like, 1 to 2-centimetre bands and discontinuous blebs that are concordant with the host dolomitic beds. Generally, the tennantite is within 30 centimetres of the dolomite-volcanic rock contact.

The volcanic rocks strike 130 degrees and dip 50 degrees northeast but tight drag folds and faults occur in the carbonates. The principal fault direction is 020 degrees with steep dips.

A quartz feldspar porphyry and a feldspar porphyry intrude all rocks in the area. However, local transportation and partial rotation of quartz feldspar porphyry blocks in limestone suggest more than one period of structural movement.

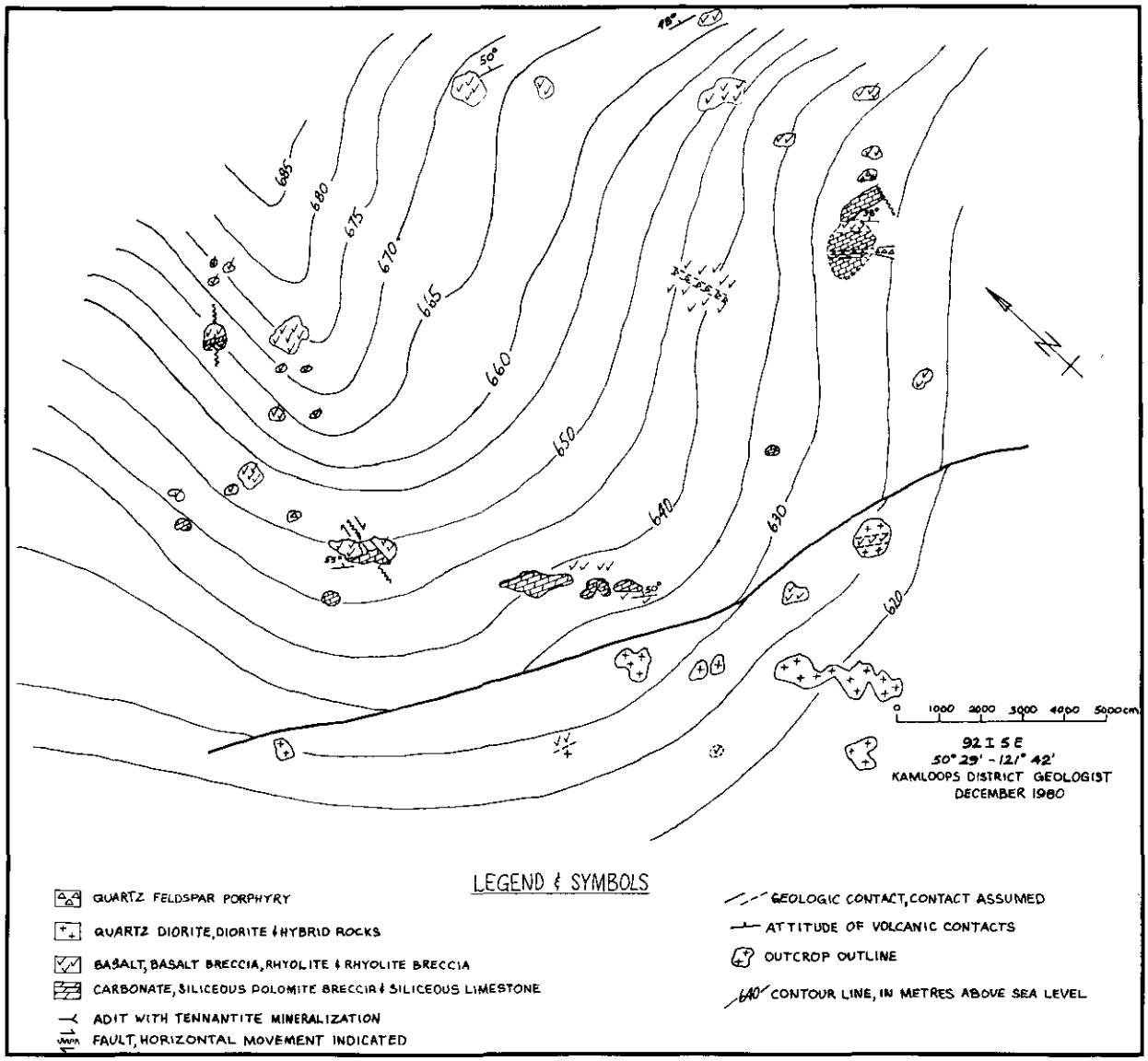

Figure 37. Geology of the Alice claim.