

Description of a basalt collected at Summerleas Road, Kingston

by G. B. Everard

The following is a description of a basalt collected by Senior Geologist I. B. Jennings at Summerleas Road, Kingston, and an inclusion therein.

No. 64-23

The inclusion is a somewhat irregular fragment, about three quarters of an inch square, in section of medium grained rock containing quartz and a dark green mineral. The texture is allotriomorphic granular and the rock consists of quartz, sericite, tourmaline and ilmenite, largely altered to white leucoxene stained by limonite.

The quartz is in clear grains, somewhat cracked and containing the usual minute inclusions. There are signs of the beginnings of recrystallisation.

Sericite is in masses of small books together with a little quartz and some opaque white material, possibly kaolin. These masses preserve sole structure, marked by lines of parallel books, which may represent twinning in feldspar crystals which the sericite has replaced. Brown pleochroic haloes with centres of zircon are common.

A strongly pleochroic green mineral in radiating, sub-radiating and irregular acicular masses, is tourmaline.

The ilmenite is in irregular grains surrounded by opaque white leucoxene stained brown by iron oxides.

The inclusion is a fragment of tourmaline granite.

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