

## Petrographic descriptions of a specimen from Apsley

*by G. B. Everard*

The following is a description of a specimen received from geologist V. Threader.

### **67-5 — Roadside quarry, Lake Highway, 1 mile north of Apsley**

In hand specimen the rock consists of dark greenish basaltic-looking rounded fragments in a yellowish brown arenaceous matrix. Angular fragments of quartz ranging up to 3 or 4 mm, but mainly <1 mm, are common. There are also a few fragments of dolerite, one being 200 mm long.

In thin section the rock contains numerous rounded fragments of dark glassy vesicular lava showing flow texture, angular to sub-rounded fragments of quartz, feldspar and pyroxene, and a few fragments of dolerite and granophyre.

The basaltic lapilli are extremely vesicular and the vesicles are filled with pale yellowish brown palagonite having a refractive index lower than that of Canada balsam and an extremely low bi-refringence. The basaltic material shows flow structure in pronounced alignment of microlites of feldspar and pyroxene. Black magnetite dust is plentiful and there is an occasional minute crystal of olivine.

The material between the basaltic fragments consists largely of cracked and angular quartz grains, averaging about 0.25 mm across and cemented together with palagonite with minute inclusions.

The rock is a sandy basaltic palagonite lapilli tuff.

*[2 March 1967]*