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Description of a specimen collected near the Lyons River

by G. B. Everard

The following is a description of a specimen collected by Chief Geologist T. D. Hughes near the Lyons River

Amphibolite near Lyons River, south of Arthur River near black slates

The specimen is a strongly sheared rock consisting of irregular chloritic lenticles, averaging 2 mm. in length, in a soft white groundmass.

In thin section the structure is schistose. The principal mineral is pale green tremolite actinolite in twinned porphyroblasts and irregular fibrous masses. Talc is plentiful in sinuous bands made up of minute flakes, the larger aggregates appearing almost opaque and comprising the soft white material seen in hand specimen. Albite and quartz are present in small irregular untwinned crystals difficult to distinguish from one another, and fine grained quartzo feldspathic aggregates are common.

Irregular densely opaque white masses stained faintly brownish by iron oxides represent original ilmenite now completely altered to leucoxene.

The rock is an amphibolite and possibly a sheared and metasomatised representative of a basic tuff or lava.

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