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GE/1 26th June, 1959

MEMORANDUM

The following are petrographic descriptions of specimens collected by Geologist P. Tetlow at Savage River Iron Ore Deposits :-

1 S Light greenish rock, weathering to a pale brownish yellow, with irregular dark patches. It is strongly sheared and is black on weathered surfaces.

In thin section the specimen is seen to consist of pale greenish, irregularly fibrous serpentine, stained brown or yellow in places with iron oxides. A little talc occurs in shreds and patches, and may be easily recognised by higher birefringence.

The dark patches are opaque black magnetite.

The rock is a sheared serpentine.

3 S Schistose greyish rock containing mica and mineralised with pyrite.

In thin section a granular structure is given to the rock by rounded and irregular crystals of albite and calcite interleaved with mica. The mica is a pale greyish green chlorite with low birefringence and no anomalous Berlin blue interference colours, intergrown sometimes with a little muscovite. Minute needles of rutile, some of which are geniculate twins, run in irregular lines and patches through the rock. They are particularly noticeable in the albite, but are common in the chlorite and calcite also.

The rock is a carbonated, albite-chlorite schist.

1 W 2. Greenish schistose rock weathering to a yellow brown.

In thin section the rock appears as alternating bands of granular recrystallised quartz and platy sericite. The banding is irregular, however, contortion and crenulation have been severe. Minute euhedral crystals of magnetite are plentifully disseminated through the rock, which is also heavily stained with oxides of iron.

Small euhedral crystals of tourmaline are common and the quartz contains many minute inclusions of rutile. There is also a little chlorite.

The rock is a quartz-sericite schist.

1 R Greenish, sheared, micaceous rock, somewhat weathered and iron stained.

In thin section the specimen consists of minute, oriented plates and books of sericite and chlorite with grains and granular masses of anhedral

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Director of Mines, Hobart.

albite. Minute strings and masses of magnetite are present and the sericite is rather heavily iron stained. Opaque clayey minerals and limonite indicate the degree of weathering.

The rock is an albite-chlorite sericite schist.

6 R Fine grained, schistose, micaceous rock, grey in colour, but bleached in weathered parts.

In thin section the rock is seen to consist largely of small oriented plates of sericite with included lenticles of recrystallised quartz. There is some white opaque clayey mineral present as minute granules and inclusions between the mica laminae.

The specimen shows extreme crenulation and contortion.

The rock is a quartz sericite schist.

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