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Descriptions of core samples from a diamond drill hole at Manganese Hill, Zeehan

by G. B. Everard

The following are descriptions of samples of core collected by geologist R. Jack from diamond drill hole 2 at Manganese Hill, Zeehan.

63-169

The hand specimen is a fine grained greenish grey rock with occasional spherules and veinlets of chloritic material.

In thin section the texture is ophitic with laths of completely saussuritized feldspar enclosed by chlorite. The chlorite, along with patches of very fine grained purplish rhodocrosite and manganosiderite, forms a kind of matrix for the saussurite laths and subhedral crystals and crystalline aggregates of ilmenite partly altered to leucoxene.

The rock is an altered manganese-bearing dolerite, or diabase.

63-116 (318')

In hand specimen the rock is greenish and fine grained with veins and irregular patches of chlorite and carbonate.

In thin section the texture is ophitic, composed of fresh feldspar laths about 1 mm in length penetrating areas of chlorite and carbonate. Euhedral crystals of ilmenite largely altered to leucoxene are common and there is a little pyrite present.

The feldspar is labradorite and the original pyroxene is seen in minute relict grains enmeshed in the carbonate.

63-117 (334')

The hand specimen shows typical ophitic texture as seen in the foregoing specimens and is traversed by an irregular veinlet of limonitic material. But when seen in thin section the texture is lost in an almost structureless aggregate of limonite, carbonate and cryptocrystalline silica with occasional irregular grains of quartz and feldspar.

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