

part marginal. No quartz was observed. At six feet the structure is again ophitic. Quartz is present. Magnetite is in large sized, sparsely scattered grains. A little pyrite also occurs. The structure of the middle part of the dyke is for the most part granular but with some idiomorphic plagioclase. The augite is generally fresh, but has associated with it hornblende and chlorite as alteration products. Quartz is abundant with uniform orientation over wide, and in the section isolated, areas. The following are the figures for the silica percentage and specific gravity of the three specimens :

	Contact.	Six feet from contact.	Middle.
SiO ₂	48.65	47.92	49.28
Sp. g.	3.088	3.079	3.016

Similar specimens were taken from a dyke on Risky Island, Rainy Lake, which is nearly in a line with the Stop Island dyke and the Shoe Bay dyke last described. The contact rock is as before distinctly a porphyrite similar to that represented in fig. I. The minerals are all fresh. Plagioclase in large crystals and augite in single and in polysomatic grains, are imbedded in the usual fine ground mass, which in this, and in all the dykes described, is apparently holocrystalline and micro-ophitic. At six feet from the dyke wall the structure is ophitic but with some allotriomorphic plagioclase. The augite is mostly replaced by hornblende. Quartz is plentiful in pegmatitic development. Magnetite or titanite iron is abundant but without any trace of leucoxene. In the middle of the dyke the ophitic structure is still observable but most of the constituent minerals are allotriomorphic. The augite is very largely replaced by hornblende. Quartz is observed to present the same ophitic relations to the idiomorphic plagioclase as does the augite, and it contains inclusions of apatite and microlites. Leucoxene with cleavage traces of titanite iron is abundant and in large grains. The following are the figures for the percentage of silica and specific gravity of these specimens :

	Contact.	Six feet from contact.	Middle.
SiO ₂	49.77	49.64	52.31
Sp. g.	3.100	3.044	3.016