	Magnetite, ave. diameter	.0147	mm
	Porphyritic crystals.		
	Pyroxene, largest polysomatic grain	1.120	mm
	Feldspar, largest lath-shaped crystal	.056 × .560	mm
II	Pyroxene, approx. ave. diameter	.840	mm
	Feldspar, " " size	.560 × .056	mm
	Magnetite, " " diameter	.126	mm
III	Pyroxene in polysomatic masses, ave. diameter	2.000	mm
	Feldspar, lath-shaped crystals, largest	.350 × .100	mm
	Magnetite, few scattered grains, ave. diam	.700	mm
	Quartz, ave. diameter	.056	mm
IV	Pyroxene, much altered to hornblende, larger gr	1.000	mm
	Feldspar, ave. size of larger grains	2.000	mm
	Magnetite, few large grains, diam	.700	mm
	Quartz, larger grains	.840	mm

Structural variation.—The specimen taken at the contact with the dyke walls (I) appears in section as a porphyrite. The ground mass is a fine ophitic felt work of plagioclase and greenish yellow pyroxene, with viridite thickly studded with granules of magnetite, all of the latter belonging probably to the final consolidation of the magma. The porphyritic constituents are in the order of their generation (1) Plagioclase in lath-shaped crystals,

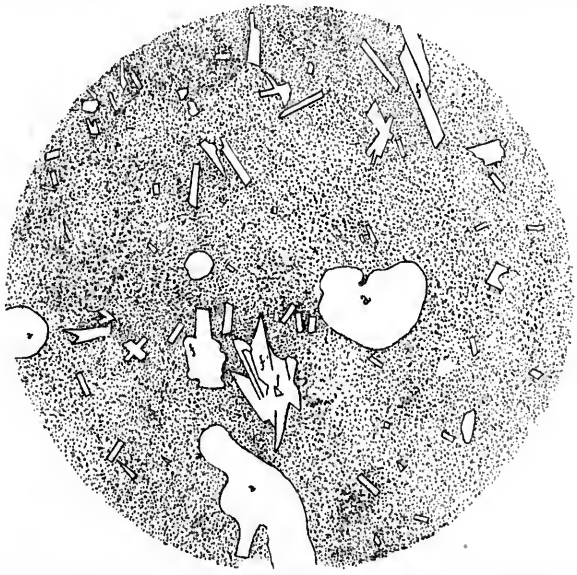

FIG. 1.

Stop Island dyke.—Section of dyke-rock at contact with dyke wall. ×38. a. polysomatic augite; f. plagioclase. Illustrating porphyrite structure.