The thin section contains symmetrical sections of an phenocrysts up to 4 mm. in diameter, mostly between 2 mm., and some as small as 0·5 mm. Cubic cleavage is developed. These phenocrysts are evidently slightly al and now show rounded and polygonal light buff areas surr ed by varying sized veins and patches of lighter coloured ana the arrangement giving a variegated appearance to the mi The deeper buff patches are faintly but distinctly doubly re ing, and the veining is arranged in rectangular directions, gesting slight alteration (perhaps recrystallization) governe cleavage directions. Bordering parts of some phenocrys a distinct rim up to 0·05 mm. wide of clear, faintly doubl fracting analcite. This rim is in some cases fastened direct the phenocrysts, in other places being separated by a fil groundmass material; occasionally minerals of the ground project into the rim, so its outer boundary is in part gradati This rim probably represents the groundmass stage of crystal tion, during which analcite from the groundmass was adde that already in phenocryst form.

The buff colour of the analcite is due to numerous minute, dust-like inclusions, which are less numerous in lighter veining and do not appear in the clear analcite rims.

Some of the phenocrysts are broken, and the fragments placed by groundmass material.

Besides the analcite, subordinate phenocrysts of ægi augite, orthoclase, titanite, and melanite are found.

Ægirite-augite occurs as idiomorphic tabular forms up 1 mm. long, twinned in some cases, and quite fresh. It resem ægirite-augites previously described.

Orthoclase is found sparingly as tabular crystals up to 0·6 n long. They show Carlsbad twinning, and are clear and unal ed. Along the sides, for a distance of 0·03 mm. inside crystal are microlites of augite and apatite(?) orientated para to the sides of the crystal. They give the appearance of s cessive stages in crystal growth, and are probably analogous the rims on the analcite phenocrysts.

The melanite phenocrysts are about 0·3 mm. in diamet and are similar to the other occurrences of the mineral, exhibiti irregular cleavage, zonal banding, etc.