

poorly exposed and are deeply weathered.

The complex is comprised of gabbro and basalt breccias with angular clasts of gabbro, granophyre and basalt in a flow banded basaltic groundmass. Sill like bodies of dolerite, gabbro and granophyre also occur, as for example in the Grid 4 area where intrusive rocks predominate. But generally, however, the outcrops can be recognised as being mainly comprised of extrusive rocks. Thin interlayered rafts of chert conglomerate and grey argillite have been mapped in Costean 1000N and in the Ring River. No pillow textures, indicative of subaqueous extrusion, have been observed in the basalts. On the P.M.G. road (east) the basalts are flow banded and amygdaloidal with interbedded shales.

These rocks pass up into a sequence of basaltic volcanoclastics, mainly basalt volcanomict conglomerate with interbedded chert-argillite breccia and grey argillite. The proportion of exotic clasts, mainly chert argillite and quartzite, increases up the sequence, but the matrix remains basaltic in composition.

#### Conglomerate - Lithicwacke Sequence

Coarse grained sedimentary rocks conformably overly the basaltic volcanoclastic conglomerates. In Costean 1000N and in the Ring River, the basal units are comprised of basaltic conglomerate with an argillaceous matrix, tuffite, chert-argillite conglomerate, siltstone and mudstone. Some interlayered units of basaltic breccia, brecciated gabbro and basalt in a basic lava matrix, have also been mapped. So this section of the sequence represents a transition between the predominantly volcanic sequence below, and the mainly sedimentary sequence above.

This transition sequence was not recognised north of the Ring River where the contact between the basalts and conglomerates is relatively sharp. At Grid 4 the basic complex is overlain by argillite with minor sandstone and basic tuffs, while on the P.M.G. road (east) the basalts are overlain by volcanoclastic greywackes and tuffs. Also no intermixed zone was recognised overlying the basic complex on the Ring River road or in the Ring River.