

INTRODUCTION

The Garfield work area of the 1984 field season is the western part of EL 9/66 bounded in the north by Juke's Range, south by Slate Spur and east by Intercolonial Spur and Mt. Darwin. Altitudes in the area range from 100 - 1000 m ASL.

The valley is drained by the Garfield, Currie Rivers and Flannigan's Creek. Vegetation is dominated by *Eucalypt*, *Banksia*, tea-tree regrowth, remnants of original rain forest being confined to main stream valleys. On fire prone north and north-eastern slopes a thick *Baera* understory is pervasive in the regrowth.

Access throughout the valley is restricted to major streams and tracks cut by Mt. Lyell Co. in 1978.

Field work in 1984 carried out in January-February, 30 days working from four helicopter supported campsites. Mapping traverses were a compromise between ideal spread of sections and access constraints imposed by streams and vegetation. From traverses a skeletal geological fact plan produced (see Fig. 1). In conjunction with mapping a collection of all lithologies, mineralization/alteration was made. A systematic stream sampling coverage only in Jukes-Currie and Flannigans area.

All sample locations marked with permatags, red flagging and have been plotted. (Fig. 1). Sample number sequence used 11300-11524 and 12100-12125, the latter from Intercolonial Spurs -