

INTRODUCTION

Exploration Licence 27/76 termed Elliott Bay, currently held by Geopeko Limited, occupies an area of 329 square kilometres in the land district of Montgomery, south west Tasmania.

This area, previously held by B.H.P. Co. Ltd, as E.L. 13/65, was pegged by Geopeko Limited on the 8.9.76 and officially granted by the Department of Mines on the 13.1.1977.

Previous exploration within the more accessible portions of this area, dating from the 1890-1910 period, has recorded evidence of anomalous base metal mineralization and traces of alluvial gold. Government and Company exploration activities since the 1920's has verified the presence of rhyolitic lavas, porphyries and pyroclastic rock types which have a potential to host massive copper, lead and zinc sulphide orebodies.

This report reviews Phase 1 of the field exploration programme at Elliott Bay up until April 1978 and thus incorporates two field seasons activities.

1976 - 77 exploration programme consisted of:

- (a) Base map preparation.
- (b) Regional geological mapping at 1:10,000 scale.
- (c) Geochemical stream sediment sampling.
- (d) Reconnaissance gridding of selected prospects.
- (e) C-horizon soil geochemistry of prospects.
- (f) Ground geophysics of prospects, utilizing magnetic, Gradient-Array I.P. and V.L.F. (E.M.) techniques - Deakin, 1977.

1977 - 78 exploration programme consisted of:

- (a) Accurate prospect gridding.
- (b) Prospect geological mapping at 1:5,000 scale.