

1. INTRODUCTION

The Tyndall licence, E.L. 9/66, covers an area of 446 sq. km. and stretches from Mt Read, near Rosebery, in the north to South Darwin Peak, east of Macquarie Harbour, in the south (Figure 1).

Geologically, the licence area largely consists of Cambrian Mt Read Volcanics and Ordovician Owen Conglomerate. It is prospective for base-metal gold mineralization similar to that being exploited at the currently operating mines within the Mt Read Volcanics (i.e. Mt Lyell, Rosebery, Que River).

E.L. 9/66 has been the subject of systematic exploration since the licence was granted in 1966. This work has included ground surveys over most of the exposed volcanic rocks and 74 diamond drill holes. This work has identified a number of prospect areas on the E.L. worthy of further detailed exploration during the remaining years of the licence's tenure.

This report describes the work undertaken on the E.L. in the past twelve months. This includes the completion of ten diamond drill holes on five prospects and geological mapping, rock chip and stream sediment geochemical sampling in the less explored southern portion of the licence area. This program cost*\$349,000 to complete and brings total expenditure on the E.L. since 1966 to \$4.5 million (Appendix 1).

* Expenditure for 10 months to end April, 1984