

## 2.9 HUXLEY (P. Komysan, J. Bishop)

### 2.9.1 Introduction

Exploration during 1981-82 consisted of work of a reconnaissance nature including a stream sediment survey and a Dighem airborne E.M. - magnetics survey.

The stream sediment survey delineated three low to moderate order anomalous zones in the Roaring Meg Creek drainage, Lynch Creek area and scattered values south of Whip Spur.

### 2.9.2 Previous Work

Predating 1966, exploration by Mt. Lyell consisted of reporting of disused prospects.

During 1966-67 Pickens<sup>and</sup> Mather and Co. Int. Pty. Ltd. carried out a stream sediment survey on the West Coast of Tasmania including the Huxley West area. Samples were assayed for cold extractable Cu and total extractable Cu, Pb, Zn and As. Major anomalies were recorded in the Roaring Meg Creek area. A grid was established in this area and further stream sediment sampling, soil sampling, ground E.M. and ground magnetic surveys were carried out. Seven drill holes were put down without success.

Mapping and sampling of the Duke Lyell and Great Lyell adits was completed by Mt. Lyell during 1970-71.

During the 1971-72 field season Mt. Lyell established the Huxley grid, (1600' spacing - reduced to 800'), extending south from the P.M.I. Roaring Meg Grid. Work on this grid up to 1975 included mapping, soil sampling and a ground magnetic survey. The Mt. Ellen Gold Mine and trenches on the north slope of Mt. Huxley were also sampled. A gradient array I.P. survey in the area was not completed as planned.

The Little Owen Grid (overlapping P.M.I.'s Roaring Meg Grid) was established by Mt. Lyell during 1973-74. A program of gradient array I.P., ground magnetics and minor soil geochemistry was carried out. Five drill holes (Glen Lyell) were drilled with little success.

In the Lynch Creek area, Cyprus Mines Corporation holding EL 47/70, established a grid and carried out geological, soil sampling, ground magnetics and dipole-dipole frequency-domain I.P. surveys. A conductive surface layer of possible deeply weathered clay prevented location of suitable drill targets.

During 1980 Mt. Lyell conducted a four line Dighem airborne E.M. survey extending from Lynch Creek to Whip Spur, with no significant anomalies. Two C.M.C. grid lines over the King River Gold Mine were cleared and a dipole-dipole I.P. survey was carried out with no significant anomalies.

### 2.9.3 Geochemistry

#### 1. Stream Sediments - Introduction

A stream sediment survey was completed by contractors (Golden Apple Mining Syndicate) during March to April 1982 in the Mt. Huxley area (bounded by the King River to the south, the Queen River to the West, Roaring Meg Creek to the north and Mt. Owen to the East).