

## 2.3 DORA-SPICER (M.J. Hutton)

### 2.3.1 Introduction

Previous exploration by RTAE (in 1957-58) and Mt. Lyell (in 1969-70 and 1980-81) defined two major anomaly zones in the region between line 120S of the Dora Grid and 200S of the Spicer Grid:

- (i) A Turam anomaly over swampy moraine near the western ends of lines 120S-136S. Weak I.P. anomalies were also detected in the area.
- (ii) A zone of weak I.P. and geochemical anomalies associated with scattered mineralisation in altered volcanics between lines 136S and 200S (about 1.8 km strike length) including several small workings. RTAE's Turam survey did not cover this zone because of the proximity to the grounded cable.

Despite the weak surface mineralisation it was felt that the area warranted exploration for possible orebodies at depth. A Sirotem (time-domain E.M.) survey was recommended for this purpose (Bishop 1981, page 30).

### 2.3.2 Access

In-fill grid lines were cut between lines 120S and 144S. All lines were pegged at 20 m intervals with the old lines changed to correlate with the metric pegging on the Spicer Grid (Table 14 in Appendix F).

### 2.3.3 Geochemistry

Seven rock chip samples were submitted for Ag-Au fire assays with one of these being assayed for Cu, Pb, An, Ag, Co, S, Mn and Fe as well. Results are shown in Figure 34. There were no significant assays.

### 2.3.4 Geophysics

#### 1. Sirotem

Geoex Pty. Ltd. were contracted to carry out a 1.36 line-km Sirotem ground E. M. survey in the Turam mode (fixed large transmitter loop with a roving vector receiver recording the vertical and horizontal across-strike components of the transient E.M. field). Coverage is shown in Figure 35 and line profiles in Figures 36a and 36f.

Several difficulties were encountered with the system, in both field operations and interpretation of results, and so the survey was shortened from that originally planned. The mineralised zone on lines 136S-152S, 176S and 184S was read at 20 m intervals but there were no significant results.

#### 2. Genie

The new Scintrex ground E.M. instrument, SE-88 ("Genie") was used for rough reconnaissance on line 128S, over the RTAE Turam anomaly, and line 144S, over the zone of mineralisation. Coverage, totalling 1.5 line-km, is shown in Figure 35 and line