

approximate position of interpreted anomalies are shown on the interpretation plan, Figure 1. Some line to line correlations in an east-west sense, can be formulated (as shown on Figure 1) however they are problematical.

- 2.3 The best 'anomaly' in terms of amplitude, width, S/N ratio and persistence to later time channels, occurs at 9900N on line 900E. This is evident as a normal +ve -> -ve Z component cross over and an X component high. This anomaly can be correlated with a similar anomaly at about 9950N on line 1100E which is a broader feature and appears to extend beyond the data coverage.

This anomaly occurs within the basalt and therefore a shallow conductive zone within the basalt, a water filled contact or fracture for example, is expected.

- 2.4 An anomaly similar to that at 9900N/900E can be seen in the data at approximately 9025N on line 700E. This anomaly occurs in close proximity to the transmitting loop position (at 9000N) and near Loop effects are expected to dominate. This anomaly, which has no equivalent correlations on adjacent lines, is therefore considered to be possibly spurious and of minor significance.

- 2.5 On the interpretation plan, Figure 1, both Sirotem anomaly trends and magnetic anomaly trends are shown. Both sets are equally problematical, however there is good agreement in general trend directions and in some cases, position. The majority of anomalous character, although minor, in both the Sirotem and magnetometer results occurs within the volcanics in the northern and north-western sectors of the grid. These results imply that the geology of the volcanics is more diverse and probably somewhat more conductive than the Ordovician lithologies to the south.

### 3. CONCLUSIONS

- 3.1 Geophysical results from the Mount Jacob grid offer virtually no encouragement for significant volcanogenic massive sulphides - the exploration target.
- 3.2 Some minor Sirotem anomalies may reflect faults or shears with some gold potential however such conclusions are entirely speculative and the results do not provide any exploration focus for this style of target. The exceptions in this regard may be the 'better' anomaly in the far north of the grid on lines 900E and 1100E and the (?) anomaly at about 9025N on line 700E. The former feature however is expected to be related to structure or lithology within Tertiary basalt and the latter to either loop effects or a minor and shallow bedrock conductor of limited lateral extent.