

lead, 0.8% zinc and 5 g/t silver. Numerous workings occur within the anomalous zone which encompasses an infaulted block of prospective Gordon Limestone. Several anomalous tin values, up to 55 ppm occur approximately 200 meters south of old workings in an area where gridding became difficult due to magnetic interference. Follow up sampling west of the Dundas River will be conducted to define these anomalous zones.

Geophysics

A gravity survey was conducted on the Mariposa prospect using both Las Coste Romberg and Sodin Gravity meters. The entire prospective zone was covered with readings taken at 50 meter intervals along grid lines with the very steep sections being left unsurveyed.

A 1.5 milligal gravity response of dimensions 700 by 250 meters was delineated (Enclosure 10) coincident with the Gordon Limestone unit. Superimposed on the western flank of this response is a 1.0 milligal gravity high, approximately 300 by 100 meters lying semi coincident with the Mariposa line of workings. Detailed modelling as yet to be conducted to define a source.

Results were received from an airborne magnetic survey with lines spaced at 250 meter intervals conducted in conjunction with a Tasmanian Mines Department survey late in 1981 (Figure 4). A number of anomalies require ground checking (Enclosure 11). Department of Mines Regional Bouguer Gravity contours covering the joint venture area are also included in this report (Figure 3).

Geoterrex is presently surveying the Mariposa prospect with a transient electromagnetic system (Geonics EM-37) utilizing a 500 by 350 meter loop. Encouraging results obtained on Amoco's Oceana prospect using this system warranted extending useage in defining the generally poorly conducting lead-zinc bodies. Anomalies will be rated according to strength and likely origin