

Geologic Mapping

Culture mapping of the three prospects (Mariposa, Black Jacks and Bannockburn) is complete and detailed geological mapping is in progress. The grids were mapped and presented at a scale of 1:2500 (Enclosures 1,4 and 12). Numerous workings including shafts, adits, costeans and prospecting pits have been located on the grids, many of which have been masked by vegetation regrowth or by scree slips as at Mariposa.

The Mariposa prospect, (Enclosure 4) is marked by a number of major cross fractures and a meridional trending fault bringing Cambrian Dundas Formation volcanoclastic sediments in contact with the prospective Ordovician Gordon Limestone. The west dipping limestone sequence is overlain by Silurian Crotty Quartzites which in turn is overlain by the Amber Slate and Keel Quartzite Formations. Most workings occur adjacent to the Silurian Crotty Quartzite/Ordovician Limestone contact and include the Nevada, Mariposa, Alameda and Martini workings. Further prospecting pits occur coincident with high tenor bedrock geochemistry some 25 meters west of the meridional trending fault zone. The large residual gravity response (1.5 milligals - Enclosure 10) lies directly over the limestone horizon. Superimposed on the western flank of the larger high is a 1.0 milligal anomaly lying semi-coincident with the Mariposa line of workings and high tenor geochemistry. The limestone horizon is truncated to the south by a major cross fault which passes through the Nevada prospect 450 meters south of the Mariposa shaft. Further workings or outcropping disseminated galena mineralization occur some 800 meters north of the Mariposa prospect within the Gordon Limestone sequence.

Analytical Techniques

Rockchip and bedrock geochemical samples were dried, crushed and pulverized and despatched to Comlabs Pty Ltd in Adelaide and to Analabs in Tasmania for analysis for copper, lead, zinc, silver and tin. Analysis for basemetals was by AAS after hydrochloric