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GEOCHEMISTRY

(1) Orientation Surveys

Originally plans had been made to carry out test profile and grid sampling over some of the more accessible Ag-Pb veins to determine:-

- (a) the optimum sample grid,
- (b) down-slope migration of anomalous metal content,
- (c) which parts of the soil profile showed the maximum contrast between background and anomalous metal content, particularly silver, in soil.

Fortunately, just prior to commencement of field operations a further search of company records located a comprehensive report and map concerning grid soil geochemical surveys carried out on the Wolverine, D'Artagnan #1, Hill Billy, Athos, Porthos and Armes claim groups which were sampled by Mitchell in 1971. These samples, collected on a 200 ft. by 400 ft. chained grid with detailing on a 100 ft. by 100 ft. grid, were collected from the "B" zone at a depth of about 18 in. below surface and analyzed for lead, zinc and silver. The data quite clearly show excellent correlation between all elements and known veins such as the North and South Musketeer veins and in addition four new geochemically anomalous zones were found in this survey.

As a result the only orientation work undertaken was a soil traverse over a vein in the Tiger claim which had been explored by an adit, and also by nearby trenching. The geochemical data, on Map 2-2A, show strongly anomalous silver and lead over the projected position of this vein.