

MYE MOUNTAIN GOSSANYukon Territory105 KLOCATION:

The Gossan is situated about 2 - 3 miles N.E. of Mye Mountain Peak, $62^{\circ}20'$, $133^{\circ}02'$. It is near the headwaters of a small creek (Angus Pup) that drains north-easterly into the Tay River. The exact location on the creek could not be determined due to heavy snowfall which severely limited visibility and helicopter function.

HISTORY:

Mr. A. Kulan, who accompanied the author on this trip, had found the Gossan and mineralized float in 1961.

DESCRIPTION:

The loosely laminated limonite is poorly exposed near the west side of the creek for a distance of about 600'. The thickness is not known and snow cover prevented search for its lateral extent. No trenches or signs of previous work were seen. Several pieces of quartz porphyry containing galena, sphalerite, chalcopyrite, pyrite were found in the creek bed. Arvela magnetometer readings at the site of silt samples indicated no magnetic variations.

GEOCHEMICAL WORK:

Six samples of silt or soil were taken near the Gossan. The results for Cu and Zn are given below in p.p.m.

- MY-1; Cu - under 10, Zn - 280
Soil above main limonite deposit.
- MY-2; Cu - under 10, Zn - 500
Limonite itself (cf Vangorda limonite).
- MY-3; Cu - under 10, Zn - 600
Soil, on bank of creek 1000' below main Gossan.

Geochemical Work (Cont'd.)

- MY-4; Cu - under 10, Zn - 1100
Stream silt 600' below main Gossan.
- MY-5; Cu - 30, Zn - 2000
Stream silt 1000' below main Gossan.
- MY-6; Cu - 200, Zn - 2000, Pb - 100.
The material was a slimy, pale creamy white coating found locally on rocks in the stream. It is probably an organically, i.e. bacteria or fungus, precipitated material.

RECOMMENDATIONS:

Several factors indicate that this area deserves intense prospecting:

- (1) Favourable Geology;
 - proximity of intrusive - sediment contact
- (2) Structure;
 - obvious fault down Angus Pup
- (3) Well Mineralized Float;
- (4) Geochemical Sampling;
 - indicates an extensive zone containing high values in Zn.
- (5) The Vangorda Creek Pb, Zn, Cu, Ag deposit, about 10 miles away, indicates an area favourable to mineralization.

METHOD OF PROSPECTING:

1. 16 claims should be staked to protect the area during the initial stages of exploration; more to be staked where and when necessary.
2. A base camp should be set up as close as possible to the Gossan.
3. Angus Pup, and any side streams, should be sampled at close intervals from their headwaters to below the Gossan, and every 1/4 mile below it - as shown on Fig. I.

Method of Prospecting (Cont'd.)

4. From the Gosean, minutely detailed prospecting should be carried out. The mineralized area, although high up the mountain, lies in a broad, flat, swampy basin. Outcrop in the immediate vicinity may be limited or non-existent. In this case, a base line should be cut to allow accurate plotting of outcrop, limonite, mineralized float, geochemical sampling of (1) side streams or springs, (2) the main stream silt at close intervals and (3) soil samples, also magnetometer readings and possible further geophysical work.
5. Geological mapping should be carried out with the prospecting. Aerial photographs will be most useful in this work, especially around the margins of the basin where outcrop is more abundant.
6. A limited amount of pick and shovel work might be helpful so these tools should be provided.

This work will be of unknown duration, perhaps 2 weeks will provide a clearer picture. At the end of 2 weeks, supplies should be flown in to the base camp. If the initial prospecting work has been done, the supplies will be used for the week it will take to carry out the following work.

Several other streams drain Mye Mountain, all of which are ideally suited for stream silt sampling in that they show favourable geology and/or structure (see Fig. 1). Using air photographs for location, streams should be sampled at, perhaps, 1/4 - 1/2 mile intervals, with close attention being paid to the float and outcrop. Follow-up prospecting would depend largely on the geochemical results.

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Angus MacDonal.