

GEOCHEMICAL SURVEY

MACDONALD CONSULTANTS

- 2 -

GEOLOGY

The Judy Group of Claims are underlain by rocks of the Triassic Nicola Group.

The contact with the multiphase Guichon Batholith is about 1.5 miles west of the Judy Group boundary. The porphyry copper deposits of the Highland Valley Camp are associated with the younger central phases of the batholith and linked to fault and fracture zones, breccia zones and porphyry dyke systems representing deep-seated breaks. The Craigmont copper-iron deposit at the southern contact of the batholith is related to its offshoots of granodiorite into the older Nicola rocks with structural controls playing a significant part in the deposition. The exploration work on the Judy Group is aimed at the discovery of a deposit of the latter type.

GEOCHEMICAL SURVEYa.) Line Cutting

Amex Exploration Services Ltd. of Kamloops, B. C. established a line grid on the property by blazing, flagging and in denser bush by cutting.

Compass and chain were used for line orientation and spacing. Four foot pickets were marked every 100 feet along the lines. The lines run approximately east - west. Line separation is 400 feet. This work was carried out from October 21 to October 30, 1969.

The total line mileage including base line is 43.9 miles.

b.) Soil Sampling

Mess'rs J. P. Henry and K. R. Ralfs of MacDonald Consultants carried out the soil sampling.

The samples were taken with a mattock from the 'B' horizon.

The samples were packaged in water-resistant, strong, numbered paper-bags provided by Bondar-Clegg & Co., Assayers, of North Vancouver, B. C.

The samples were predried in the field and then brought to Vancouver in the company's truck.

A total of 1,133 samples were collected.

c.) Assay Procedure

The samples were assayed for their total copper content by Bondar-Clegg & Co., 1500 Pemberton Avenue, North Vancouver, B. C.

The samples were dried and screened at the assay office; the -80 mesh fraction was used for analysis.

Hot aqua regia digestion and the atomic absorption method were used to determine the copper values in parts per million.

SUMMARY & CONCLUSION

MacDonald Consultants Ltd. carried out a geochemical survey on the Judy 1 - 40 Group of Claims near Logan Lake in the Highland Valley area.

Line control was provided by Amex Exploration Services Ltd. of Kamloops, B. C. who established a line grid totalling 43.9 miles with east - west oriented lines at a spacing of 400 feet.

The property is underlain by triassic rocks of the Nicola Group consisting of fine grained andesites, volcanic agglomerates and tuffs.

The contact with the younger intrusives of the Guichon batholith is about 1.5 miles west of the property.

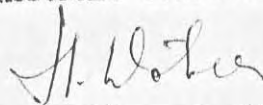
The geochemical response on the property is rather uniform with several isolated anomalous peaks. Higher trends seem to reflex lithology and depth of overburden rather than mineralization.

The exploration work is aimed at the discovery of a Craigmont type deposit. It should be noted that this type of deposit may not necessarily find a geochemical expression on surface, depending on the depth of a possible contact with the batholith or its offshoots.

Further exploration work should be in the nature of an air photo study and geological mapping and prospecting with the emphasis on structural patterns. A ground magnetometer survey with careful topographic and lithological correlation may render further information.

Respectfully submitted,

MACDONALD CONSULTANTS LTD.



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