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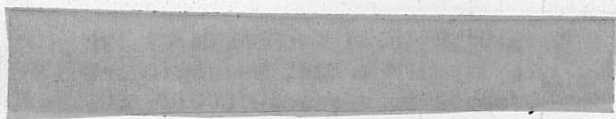
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November 20, 1968



Vancouver 1, B. C.

Dear Mr. McGonigle:

PROGRESS REPORT #3-68
TOMMY LAKE - TOE LAKE EXPLORATION PROGRAM
NICOLA MINING DIVISION, B. C.

The Company's properties comprise the Mal-Chal, HN-WEN, and Echo claim groups within the Tommy Lake area and the Toe and Boot groups within the Paradise Lake area. The aggregate property generally covers a 10 mile length of the geologically-favourable Pennask granodiorite-Nicola volcanic contact and volcanic re-entrant. As bedrock within the map area is generally ^{obscured} overburden, it has been necessary to explore the claim groups via indirect methods, i.e.; co-ordinated geochemical and geophysical surveys.

To mid-June, 1968, exploration carried out comprised geochemical (soil & silt Cu.) surveys, in more or less detail, over the entire claims area, magnetic surveys of the Mal-Chal and Toe groups, corollary prospecting, and preliminary bulldozer stripping and trenching within potentially-mineralized zones outlined on the Echo and HN-WEN groups. Areas requiring preliminary ground-based geophysical, and supplementary geochemical surveys were, in part, indicated by the initial airborne E.M.-Mag-Radiometric survey performed early in 1967. In addition to the detailed property exploration carried out since the spring of 1967 a continuing geochemical-geological reconnaissance exploration program has been conducted over contiguous, geologically-strong regions (lineaments) of the district re-entrant. As stated in an earlier report the Brenda ore zone is situated at the extreme easterly end of this re-entrant on one of the system of main frac-

ture lineaments traversing it. The Company's local exploration has been directed towards the search for other ore zones, on its property or within the general re-entrant, which may be similarly positioned with respect to the dominant structures and optimum host rocks.

Reconnaissance silt surveys within the westerly part of the re-entrant have partly outlined two significant copper anomalies; in addition, these have been locally substantiated by follow-up soil sampling. With I.P. surveying completed it is planned to resume these investigations.

Following the completion of geochemical exploration on the Mal-Chal groups and delineation of anomalous zones within the respective claims areas, I.P. surveys were initiated. Since their commencement in early June, 1968 those comprise:

(a) East half of Toe group	12.0 miles	GEO-X - HEWITT I.P.
(b) Mal-Chal group	23.2 miles	BARAMBAER - MONTEC. 7.5 KW I.P.
(c) West half Toe group	12.8 16.23 miles	" " " " " "
Total =	48.0 miles	

The foregoing work has delineated two strongly anomalous areas, measuring 5,600 X 1,000 ft. and 3,600 X 600 ft. respectively within the westerly Toe claims; in addition, a lower-scale, broadly-anomalous area at 2,000-3,000 ft. south of the base-line has been delineated. Of these, the first two correspond well with geochemically anomalous (Cu) zones; the third is situated over an intrusive zone within the general volcanic assemblage. Within the Mal - Chal group two major I.P. anomalous areas have been delineated. The more important, as deduced on the basis of its proximity to the earlier-delineated chalcopryite-magnetite mineralization, is roughly elliptical in form, with an E-W width of 2,500 feet, and 'open' to the north. The secondary anomaly, although geochemically relevant, is considered essentially due to a content of metamorphic pyrite within limey-argillaceous beds.

For an adequate test of the three Toe and the northerly Mal-Chal I.P. anomalies, the writer recommends that the following physical exploration be carried out:

General - Provision for geochemical reconnaissance and prospecting \$ 5,000.

Stage I - Toe & Mal-Chal prospect zones:

(a) Preliminary bulldozer trenching 30 days @ \$250.00 -	\$ 7,500.	
(b) Percussion drill sampling, min. 100' holes; estimate 10,000 l.f. @ \$3.00 per l.f. -	30,000.	
Provision, general expense & contingencies -	<u>7,500.</u>	45,000.

Stage II - Toe, Mal-Chal, & Contiguous Zones:

(a) Deep diamond drilling - exploration sampling; estimate 7,500 l.f. B.Q. W.L. @ \$12.00 -	\$ 90,000.	
Provision, associated expense & contingencies -	<u>10,000.</u>	<u>100,000.</u>
Total -		<u><u>\$150,000.</u></u>

Respectfully submitted,

William M. Sharp, P. Eng.

W. M. Sharp

