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VANCOUVER 1, B. C.

August 6th, 1966.

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Mr. J. R. Trepanier,  
Managing Director,  
Stellako Mining Co. Ltd.,  
716 - 602 West Hastings Street,  
Vancouver 2, B. C.

Dear Mr. Trepanier:

Interim Report - 1966 Exploration  
Program - Roscoe Lake Project

Preliminary

This follows upon the writer's July 31 - August 1, 1966 visit to the property. The geochemical data are derived from soil analyses reports provided by Noranda Exploration Co. Ltd. To date, the writer has reports ("coppers" only) for 605 of the total of 700- plus soil samples thus far submitted by Mr. Len Hacky.

A very good rate of progress, with an excellent quality of work, is being made by Mr. Hackey and crews under his supervision.

The writer emphasizes that the present extremely wet ground conditions (high water-table) will preclude bulldozer strip and/or trench operations for at least all of August and, perhaps, half of September. However, all of this time will be required for completion of the scheduled program of soil-sampling and magnetometer surveys. The earliest date on which the geochemical data pertaining to the complete grid can be compiled and evaluated will depend largely on when Noranda and Bio Metals can furnish complete reports for copper and molybdenum (or MoS<sub>2</sub>) respectively.

The writer has provided Mr. Hackey with a supply of "Field Progress Maps" on which he can record total progress on both soil-sampling and magnetometer surveys.

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These should prove less time-consuming and laborious for all concerned than full written reports. A few brief notes with reference to camp, crew and miscellaneous matters may supplement the progress records to form an adequate progress report. It has been suggested that these be submitted to the writer each week.

### Magnetometer Surveys

The writer discussed operational features of the equipment (Sharpe MF-1) flux-gate magnetometer) with Mr. Hackey and also accompanied him on a datum-survey of the O-E base-line from 8N to 86S. This was done, initially, from north-to-south and checked by a south-to-north re-run. The instrument performed very satisfactorily and Mr. Hackey experienced no major problems with respect to its operation. The current period of relatively stable weather and earth-field conditions appears optimum for carrying out this phase of the program.

Magnetometer datum surveys will be carried out on other (parallel) base lines to expedite standardization of grid-line survey data with that on respective base-lines.

Because of the extremely poor weather, and earth-field (diurnal) conditions experienced during preliminary magnetometer surveys conducted last winter, most of the earlier work should be re-done. In addition, some difficulty, due to faulty connections in the power circuit - was experienced with the previous instrument in maintaining a consistently constant voltage-power supply to the instrument. Consequently, the magnetometer readings obtained were not necessarily entirely due to local variations of magnetic phenomena within the bedrock alone.

### Soil Sampling

The reconnaissance phase of the program, with sampling on a 400' N-S and 800' N-S spacing of grid-lines is generally complete. The writer has checked the corresponding reports (Cu's) from Noranda and left instructions with Mr. Hackey

re more detailed coverage - also in general accordance with Dr. A. C. Skerl's independent recommendations. The necessary reports of Mo (or MoS<sub>2</sub>) content, corresponding with Noranda's copper determinations, are pending from the Bio Metals analysts.

Several copper-anomalous areas, in addition to those revealed by the preliminary geochemical investigations conducted last year, have been delineated in very preliminary fashion by the 1966 work. These occur largely within the central-southerly and the westerly parts of the property. Bulldozer trench exploration of a number of these is already indicated, but actual surface exploration should be deferred until further soil-sampling has fully detailed these, and of course, until ground-water conditions are more suitable. At present equipment could become seriously mired-down, and any trenches would be flooded.

In addition, the pending Mo-geochem. data may reinforce the current Cu-zones or provide other distinct target areas.

Respectfully submitted,

*W. M. Sharp*

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