

## INTRODUCTION

The area covered by the present report includes six water claims, T31773-T31776 incl., and T31783 and T31784, located in the Northeast Arm of Lake Timagami, Briggs Township, Ont. and held by Niemetz Base Metal Mines Ltd.

## GENERAL GEOLOGY

There are no rocks exposed on this claim group. Mapping to the northeast and southwest of the group indicates that the predominant rock types to be expected would be basic to intermediate volcanics with acid volcanics and/or diorite near the southern boundary. Iron formation outcrops on an island immediately west of this section of the property.

## GEOPHYSICAL SURVEYS

The area was surveyed in the course of a regional survey with an airborne magnetometer. In addition magnetic and electrical resistivity surveys were carried out on the ice of Lake Timagami.

An Askania magnetometer with a sensitivity of 23 gammas per scale division was used for the magnetic survey.

The electrical resistivity method employed 60-cycle alternating current. Readings of potential differences were made between potential electrodes using a high-sensitivity vacuum-tube voltmeter. Earth resistivities were calculated and plotted as resistivity in ohm-cms. times 100 log 10.

## DISCUSSION OF GEOPHYSICAL RESULTS

### Magnetometer Survey

Traversing the claims in a northeasterly direction and located about 300 feet from shore is a linear magnetic high which is the expression of an iron formation band outcropping on an island immediately west of the claim group. With the exception of this iron formation band there is very little magnetic relief over that part of the property covered by this report.

### Electrical Resistivity Survey

Resistivities in the southern section of the claims are somewhat lower than those in the northern part. This is probably an expression of deeper water to the south.

In the southeast corner of the group somewhat lower resistivities probably indicate the main channel which is believed to follow a major shear zone.

A small local anomaly is indicated on line 84E near the south boundary of the group. Since this anomaly shows up on only one line, more detailed work would be necessary to determine its possible importance.

CONCLUSIONS AND RECOMMENDATIONS

It is recommended that further work on these claims be held in abeyance pending results of drilling being done and planned on adjoining ground.

Respectfully submitted,

MINING GEOPHYSICS CORPORATION LIMITED

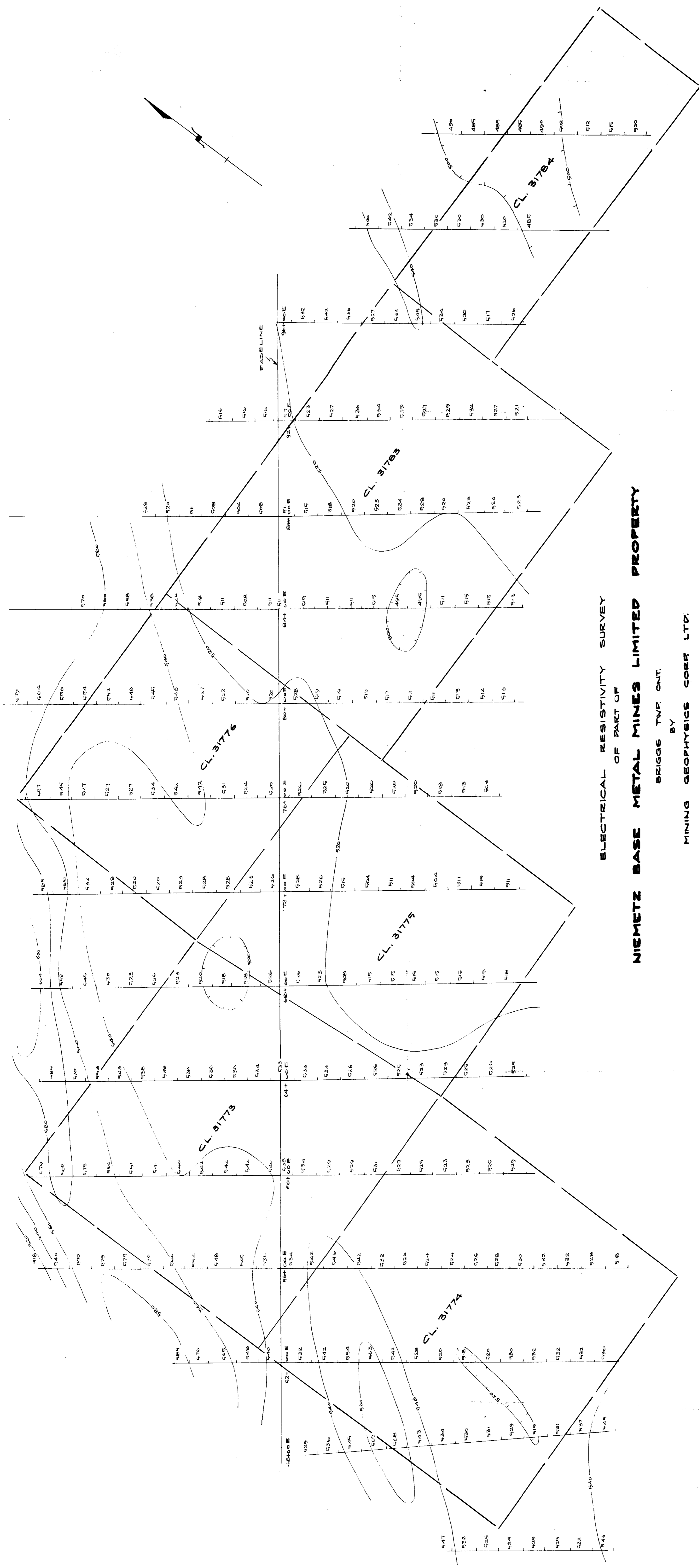


J. C. Frantz,



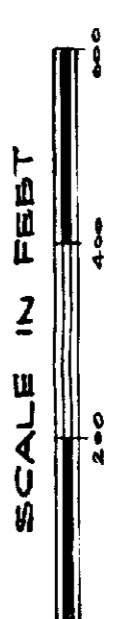
N. B. Keevil

Toronto,  
December 19, 1952.



**ELECTRICAL RESISTIVITY SURVEY  
OF PART OF  
NIEMETZ BASE METAL MINES LIMITED PROPERTY**

BRIGGS TWP. ONT.  
BY  
MINING GEOPHYSICS CORP. LTD.

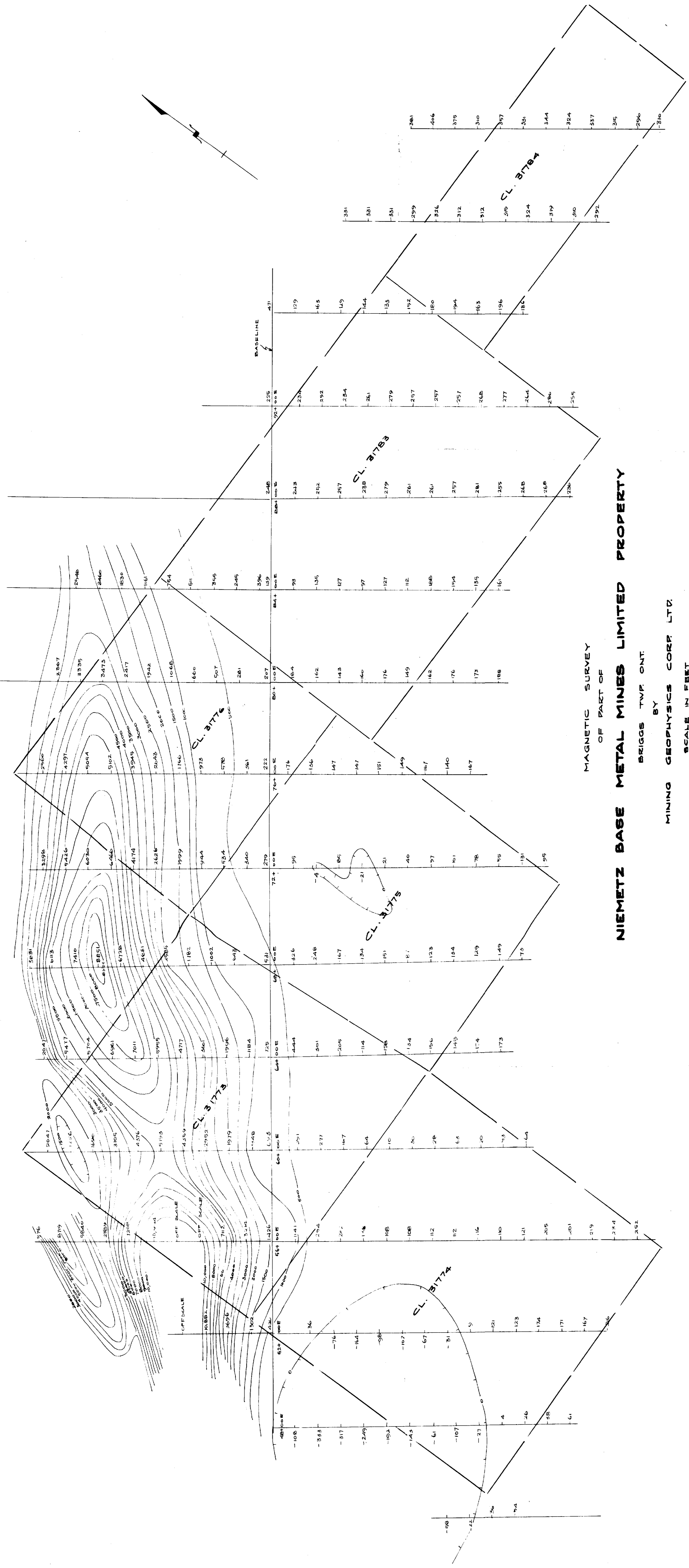


NOTE: VALUES ARE EARTH  
RESISTIVITIES AS 100 log<sub>10</sub>  
IN Ohm cm<sup>2</sup>

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MAGNETIC SURVEY  
OF PART OF  
**NIEMETZ BASE METAL MINES LIMITED PROPERTY**  
BRIGGS TWP. ONT.  
BY  
MINING GEOPHYSICS CORP LTD.



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