



41116NE0030 63.456 PHYLLIS

REPORT ON GEOPHYSICAL SURVEY
ABEX CENTRAL TEMAGAMI PROPERTY
PHYLLIS TWP., ONTARIO.

INTRODUCTION

The Central Temagami property of Abex Mines Limited includes twenty-seven unpatented claims T31625, T31626, T31628 - T31633 incl., T32200, T32210 - T32218 incl., T32408 - T32413 incl., T32580 - T32582 incl., in Phyllis Twp., Timiskaming Mining Division, Province of Ontario. The property is located on Lake Temagami about fifteen miles southwest of the village of Temagami, and can be reached by boat or aircraft from the village.

GENERAL GEOLOGY

The claims are located along a belt of Keewatin-type volcanic rocks which extends along the northeast arm of Lake Temagami through Temagami Island and the Abex Central Temagami property. A major fault zone follows the northeast arm of Lake Temagami and traverses the Abex ground. A series of diorite and gabbro intrusives appear to have been emplaced along this fault zone. Copper, nickel, and cobalt mineralization occurs along and near the contact of the basic intrusives, and the volcanic rocks. Except for local magnetite, no magnetic mineralization is associated with these deposits.

It is believed that these older rocks are covered by a thin layer of Cobalt sediments at the western end of the property.

GEOPHYSICAL SURVEY

Readings were taken at stations spaced 100 feet apart along northwest picket lines at intervals of 200 to 400 feet using an Askania magnetometer with a sensitivity of 22 gammas per scale division.

DISCUSSION OF GEOPHYSICAL RESULTS

The diorite-gabbro intrusive complex can be outlined in a general way from the magnetics. The magnetic level over this intrusive is slightly higher than the level over the volcanic rocks to the south. Locally, there is considerable magnetite in the diorite and this is indicated by irregularly shaped magnetic highs. A local magnetic high in the southern portion of the property has been interpreted as the expression of a small dioritic intrusive.

Two linear north-west trending anomalies have been interpreted as the expression of diabase dikes.


CONCLUSIONS AND RECOMMENDATIONS

The favourable diorite-volcanic contact has been outlined by diamond drilling, and a magnetometer survey. The limited drilling to date has indicated copper-nickel-cobalt values along this contact on the Abex ground.

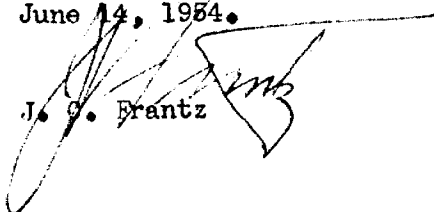
It is recommended that an electrical survey be carried out along the contact zones between the diorite and volcanic rocks.

Respectfully submitted,

MINING GEOPHYSICS CORPORATION LIMITED


N. B. Keevil

Toronto, Ontario,
June 14, 1954.


J. G. Brantz

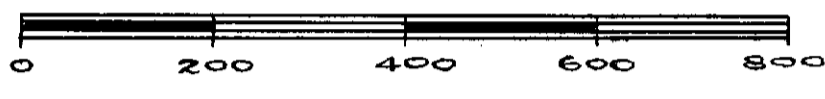
MINING GEOPHYSICS
CORPORATION - LIMITED
11 JORDAN ST.
TORONTO, ONT.

DRAWN BY	DATE
TO ACCOMPANY	COPY No.
REPORT	

GEOMAGNETIC SURVEY
OF
CENTRAL TEMAGAMI CLAIMS
PHYLLIS TWP. ONT.

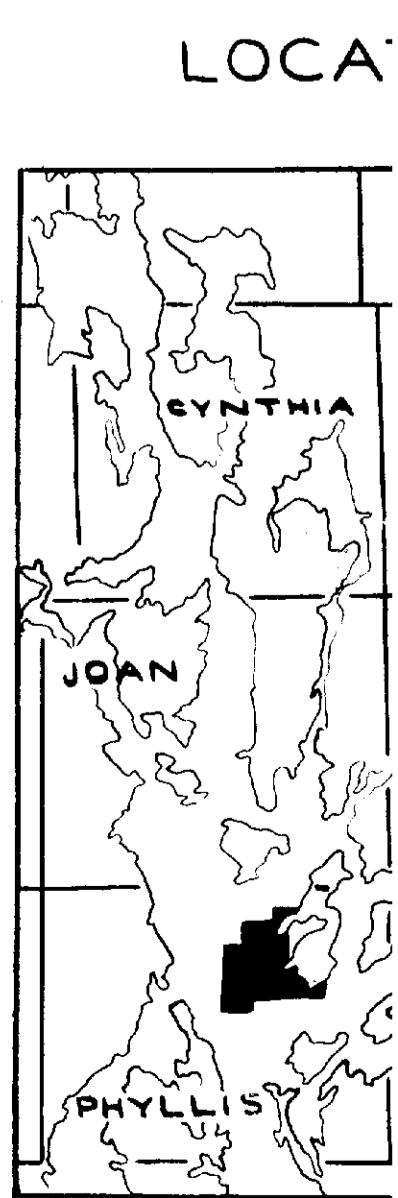
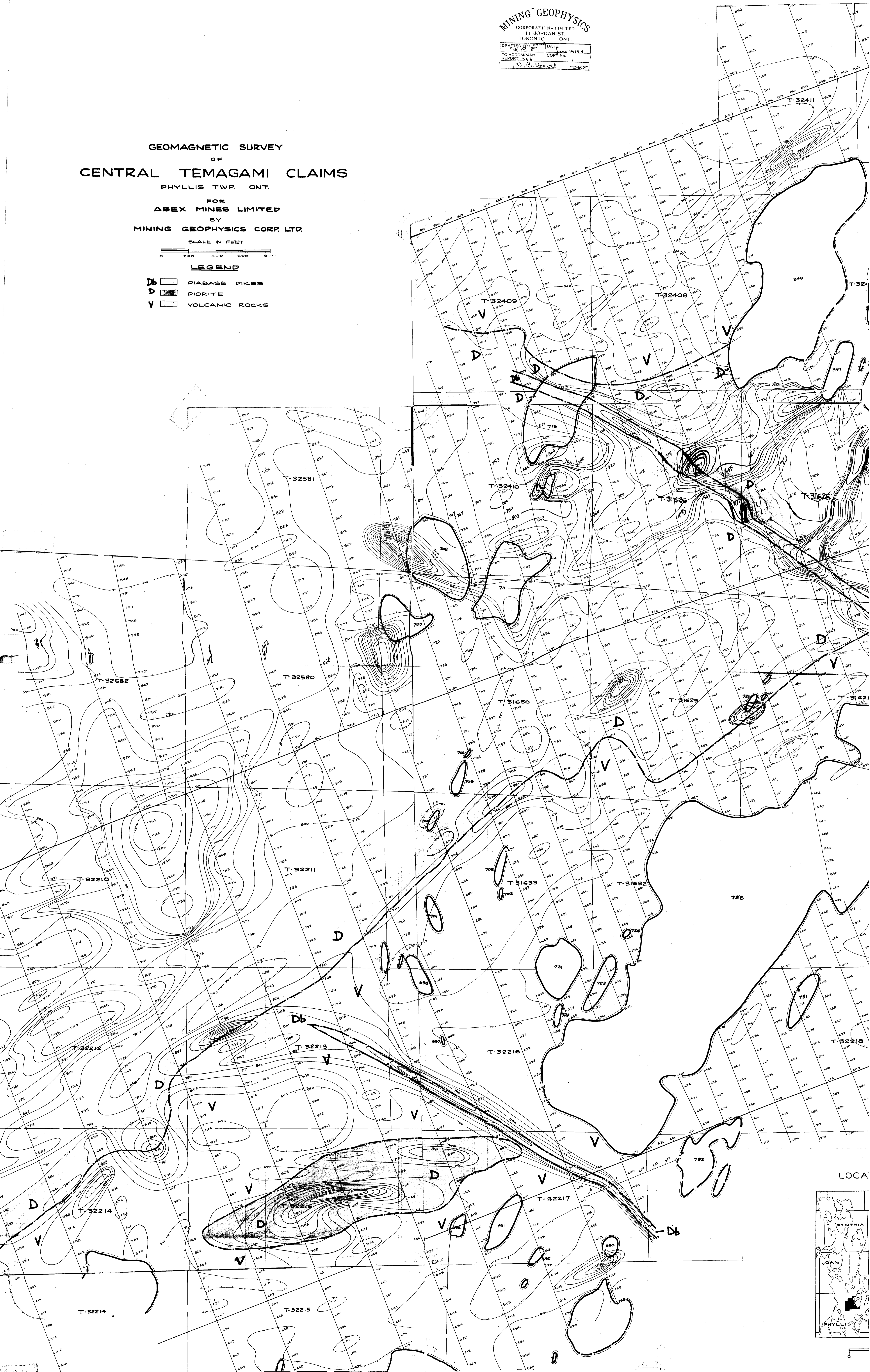
FOR
ABEX MINES LIMITED
BY
MINING GEOPHYSICS CORP. LTD.

SCALE IN FEET



LEGEND

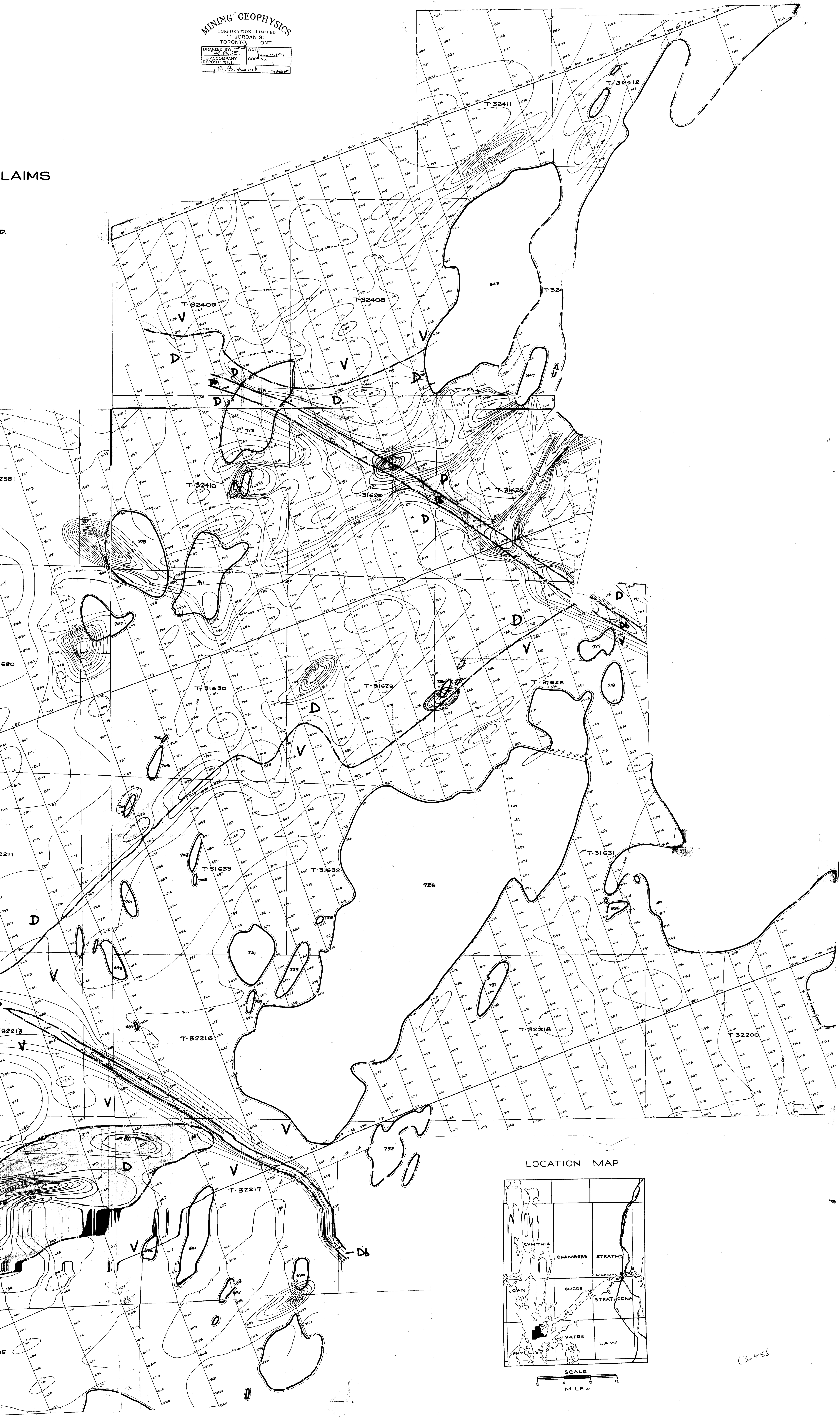
- D** ▭ DIABASE DIKES
- D** ▭ DIORITE
- V** ▭ VOLCANIC ROCKS



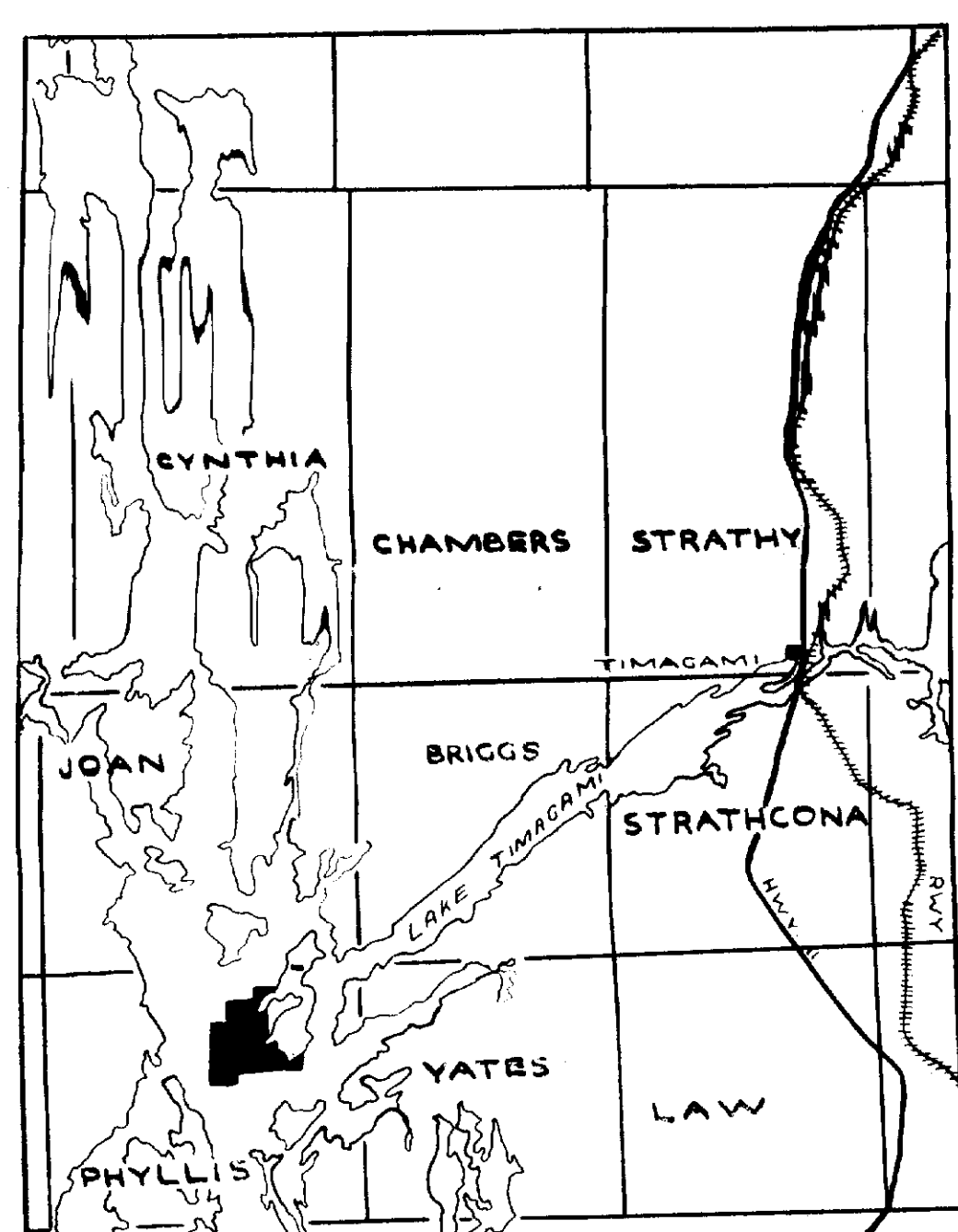
MINING GEOPHYSICS
CORPORATION - LIMITED
11 JORDAN ST.
TORONTO, ONT.

DRAWN BY: J.B.	DATE: MAR 1954
TO ACCOMPANY REPORT: 356	COPY No. 1

CLAIMS



LOCATION MAP



SCALE
0 4 8 12
MILES

63-436