42A01SE8923 63.1846 EBY

SUMMARY, CONCLUSIONS & RECOMMENDATIONS

Keevil Consultants Limited Eby group was tested by a vertical loop electromagnetic survey and geological mapping in December 1965. A magnetometer survey was done in 1964.

Four strong and four weak conductors were outlined, all lying in overburdened areas. The strong anomalies have excellent magnetic correlation.

A drilling program is recommended, this to consist of one hole to test each of the strong conductors. Of these one hole would be extended to cross-section the magnetite iron formation band known to cross the claims.

ACCOMPANYING MAPS

(1) Drawing 3045 - "Geology Map"

(2) Drawing 3048 - "Vertical Loop E.M. Survey".

INTRODUCTION

Keevil Consultants Limited Eby group consists of the following ten contiguous claims in Eby Township:

L77348	NE¼N½	Lot 3	Concession 3
L77349	SE¼N½	Lot 3	Concession 3
L78187	NE¼S½	Lot 3	Concession 3
L78188	NW¼S½	Lot 3	Concession 3
L78189	SE¼S½	Lot 3	Concession 3
L78190	SE¼S½	Lot 3	Concession 3
L78788	NE¼S½	Lot 4	Concession 3
L78789	NW¼S½	Lot 4	Concession 3
L79120	SW¼N½	Lot 3	Concession 3
L95537	SE¼S½	Lot 4	Concession 3

The claims were staked and recorded on various dates in 1963, 1964 and 1965, the present registered owner being Keevil Consultants Limited, Suite 1000, 11 Adelaide St.W., Toronto, Ontario.

Exploration work consisting of geological mapping and a vertical loop electromagnetic survey was carried out during the period November 3 to December 10, 1965. The work was done by Geophysical Engineering and Surveys Limited personnel under the direct supervision of the writer. The E.M. survey operator was J. Martin, 83 Algonquin Blvd. E., Timmins, Ontario. The geological mapping was done by R. Petersen, Swastika, Ontario.

LOCATION AND ACCESS

The claims are located in the east central part of Eby Township, Larder Lake Mining division, a distance of 9 miles to the south-west of Kirkland Lake, Ontario. Approximate co-ordinates are 49° 03' north, 80° 11' west.

Access is by concession roads south off the Kenogami-Matachewan highway at a point 2 miles to the south of the junction with highway 11.

DESCRIPTION OF SURVEYS

A grid of north-south lines at 300-foot intervals cut in 1964 for a magnetometer survey was used in the present work.

A vertical loop electromagnetic survey was done with a Sharpe S.E. 200 unit fitted with an amplifier and special batteries to increase the range to 600 feet. Readings were taken at 100-foot intervals along all the picket lines using the parallel line method. In this method each reading is taken with the transmitter and receiver set up at the same station on adjacent lines. The transmitter-receiver interval thus is the line spacing, in this case 300 feet. All conductors located were then checked by the detail or fixed transmitter method. In this method the transmitter is set up on a known or suspected cross-over and readings taken at 50-foot intervals on the adjacent line or lines. In this way the conductor is traced from line to line and accurately located within 25 feet on every line.

Approximately 1237 readings were taken.

The geological mapping was done by walking the picket lines and running pace and compass traverses between lines. All outcrops were accurately tied in to the nearest picket line or lines.

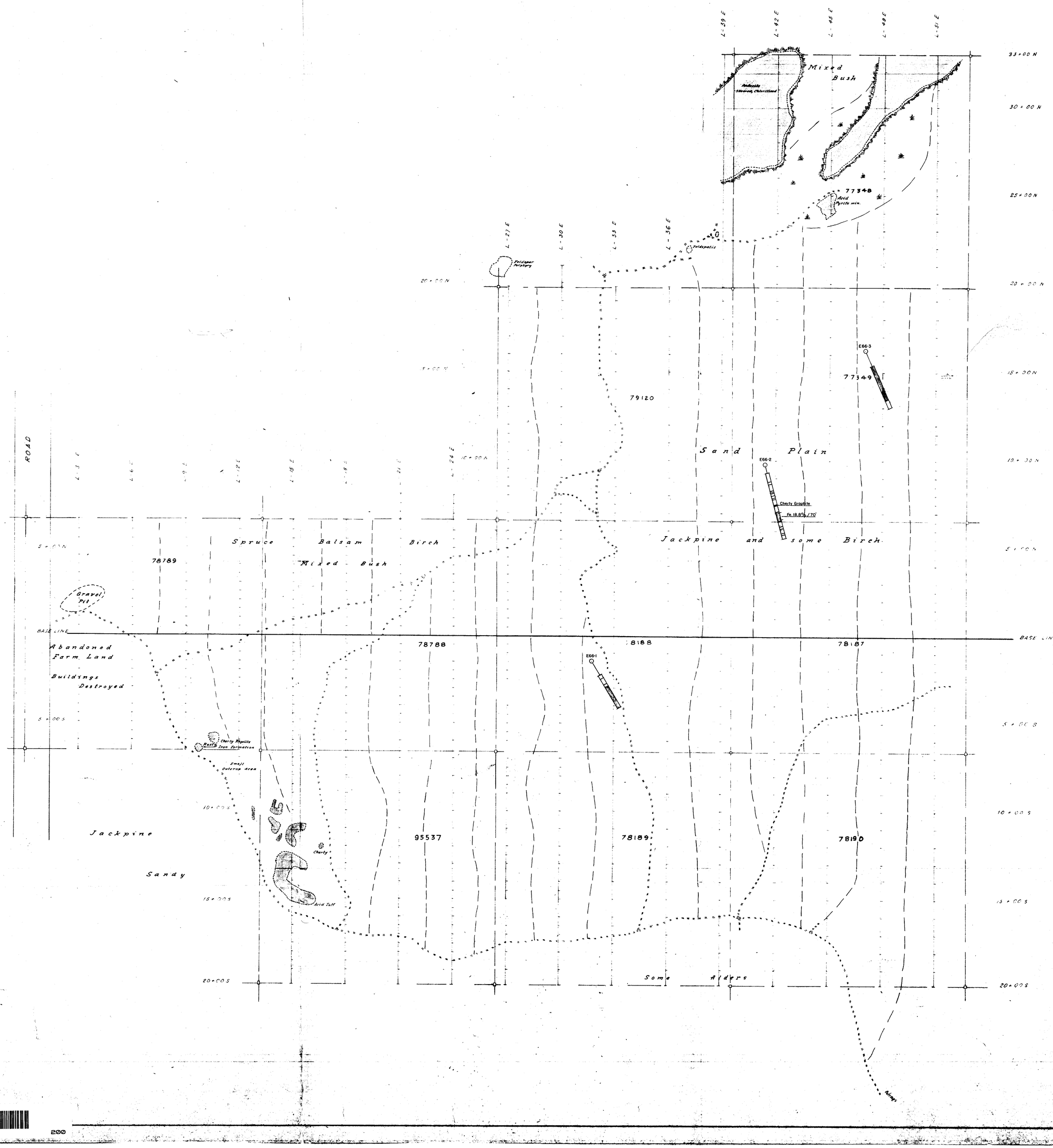
RESULTS OF SURVEYS

The electromagnetic survey located and outlined four strong and four weak conductors as shown on the accompanying map. The strong anomalies all have sections of extremely strong conductivity and partial magnetic correlation. The weak anomalies have poor conductivity although some of the cross-overs are sharp and have little magnetic correlation.

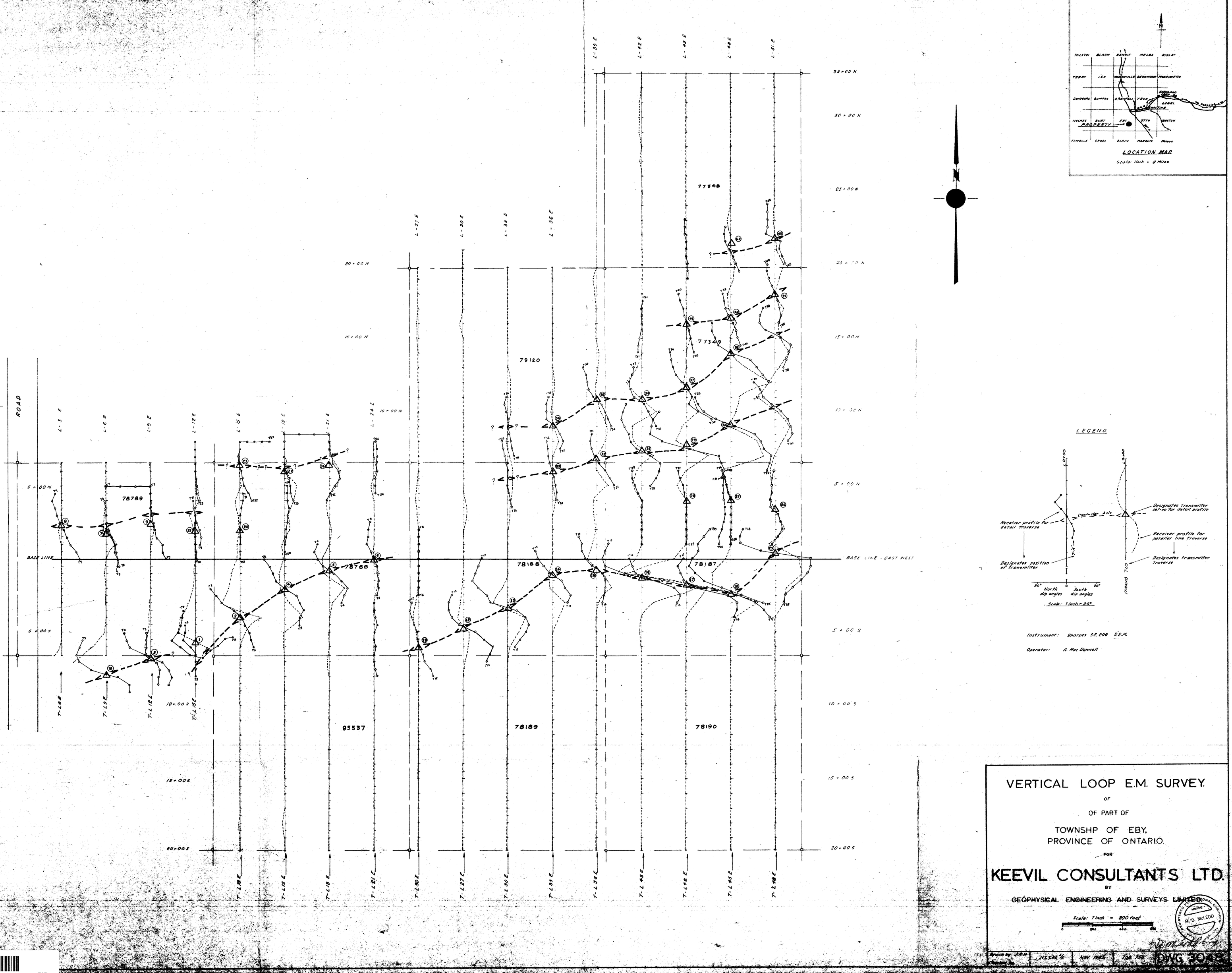
GEOLOGY

The claims are almost completely covered by sand plain with a few outcrops in the north-east corner and the south-west corner of the group. Those along the north boundary are sheared chloritic andesite and a fine-grained pink feldspar porphyry. Rusty siliceous iron formation outcrops in the south-east corner of claim L78789. Outcrops of acid to cherty tuff lie along the west boundary of claim L95537.

Strike of formations as indicated by the electromagnetic and magnetic surveys is east-west to N60°E. Changes in strike of the conductors indicate some folding. Dip is not certain but is considered to be close to vertical.



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Instrument: Sharpes S.E. 200 V.E.M.

Operator: A. Mac Donnell

VERTICAL LOOP E.M. SURVEY.

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TOWNSHP OF EBY,
PROVINCE OF ONTARIO.

FOR

KEEVIL CONSULTANTS LTD.

BY

GEOPHYSICAL ENGINEERING AND SURVEYS LIMITED

Scale: 1 inch = 200 feet

0 200 400 600

A. D. McLEOD

Surveyed by A.D.M. | N.E.S.M.'d | Map Ref. | Job No. | DWG 30 of 3

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