

**ABSTRACT**

During the winter and spring of 1961 a magnetometer survey was completed on three claims.

Two anomalies were tested by drilling.

The results are described in a two (2) page report with one accompanying map on a scale of 1 inch to 100 feet.

Drawing 1830.

MAGNETOMETER SURVEY
SKUNK LAKE GROUP
TOWNSHIP OF PHYLLIS
PROVINCE OF ONTARIO
TEMAGAMI MINING CO. LIMITED

INTRODUCTION

The survey was undertaken to detect the presence of bodies of massive magnetite as an aid in locating diamond drill holes.

LOCATION AND ACCESS

The claims are situated slightly south of the E-W centre line, near the west side of Phyllis Township. The claims cover part of eastern arm of Skunk Lake.

The property can be reached by air or by water via the southwest arm of Temagami Lake and a short portage.

GEOLOGY

All the reported outcrops were Nipissing diabase. Previous drilling to the northwest showed that the thickness of the diabase cover was of the order of 200 feet or less.

GEOPHYSICAL SURVEY

Changes in the vertical component of the earth's magnetic field were measured using a Watts vertical force variometer of sensitivity of 28.7 gammas per scale division.

The values were made at 100 foot intervals along lines spaced 100 feet apart. Corrections were made for diurnal variations and the values plotted on a map of scale 1 inch equals 100 feet and contoured.

DISCUSSION OF RESULTS

The anomalies on the northern claim are erratic and in most cases are caused by single anomalous values.

The anomalies on the two southerly claims are more extensive. The anomaly centred at 15+00E, 1+00N is caused by a magnetic body approximately 60 feet wide at a depth of 60 feet.

The anomaly at 20+00E and the base line has been drilled.

The anomaly at 24+00E, 1+00N has been drilled.

The anomaly at 8+00E, 7+00S is caused by a very narrow magnetic body at a depth of 40 feet.

CONCLUSIONS

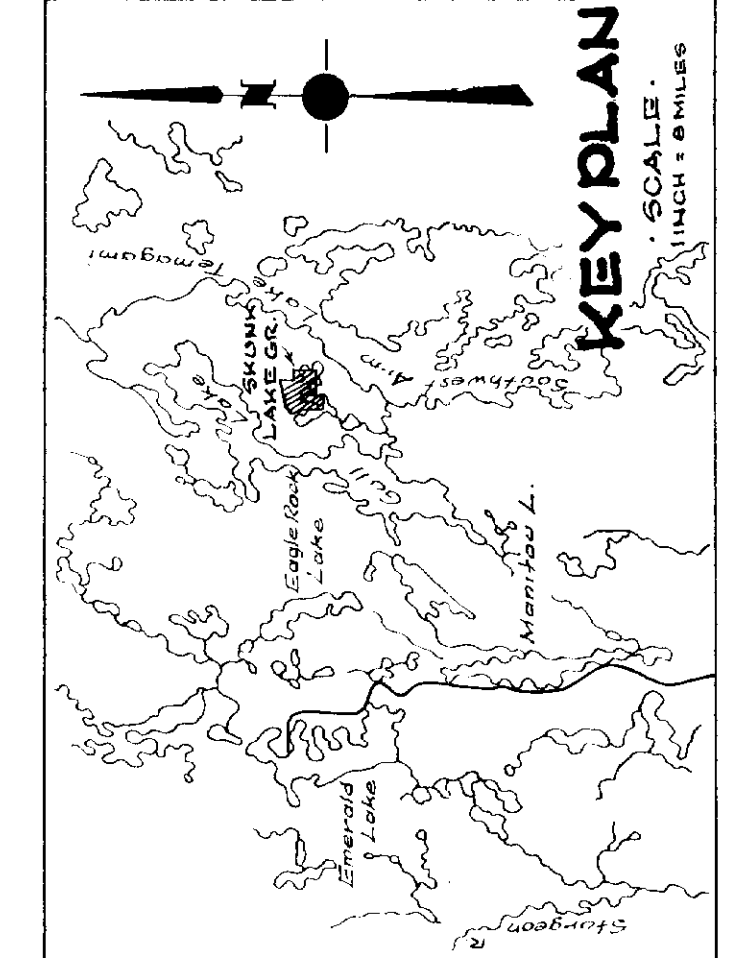
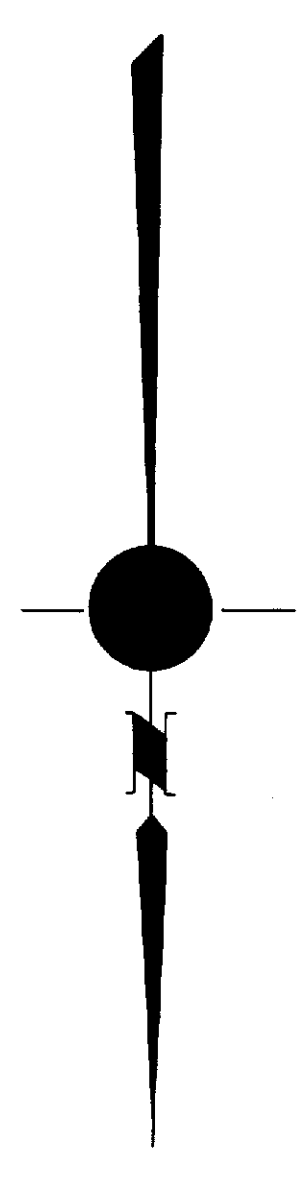
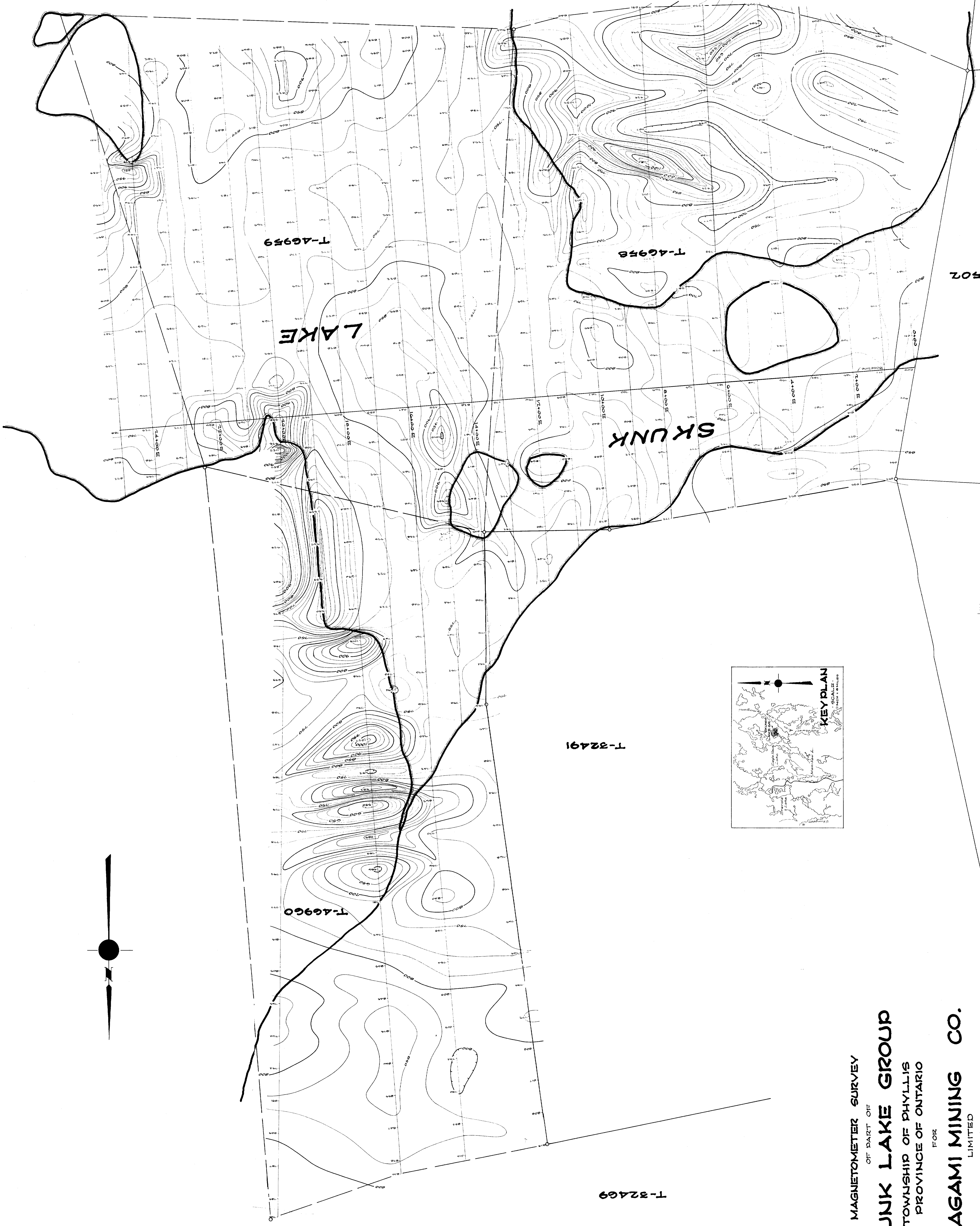
Since the drill holes SK13, SK14 were in diabase for a vertical extent of 130 and 106 feet respectively it is likely that the magnetic bodies causing the anomalies are in the diabase and since the magnetic bodies are relatively close to surface and the anomaly value above background does not exceed 500 gammas, the anomalies are not caused by massive magnetite.

RECOMMENDATIONS

Sufficient drilling has been done to explain the anomalies. No further work is recommended at present.

Toronto, Ontario,
May 30, 1961.

Respectfully submitted,
A. R. Clark
A. R. Clark.



Note:
 Values other than feet are in gamma.
 Contouring shown thus: — at an gamma interval. — at an gamma interval.
 See also map and text for Magnetometer Survey. Topographic contours are from 1952.

MAGNETOMETER SURVEY
 OF PART OF
SKUNK LAKE GROUP
 TOWNSHIP OF PHYLLIS
 PROVINCE OF ONTARIO
 FOR
TEMAGAMI MINING CO.
 LIMITED

BY
GEOPHYSICAL ENGINEERING AND SURVEYS LIMITED

SCALE: 1 INCH = 100 FEET



A. R. Clark