42A01SE8924 63.1904 EBY

SUMMARY, CONCLUSIONS & RECOMMENDATI

Taylor Gold Mines Ltd. Hi-Way claims in Eby Township were tested by a magnetometer survey.

East-west trending high magnetic anomalies were outlined. These are interpreted to be magnetite-rich zones within the basic volcanics.

Geological mapping and a vertical loop electromagnetic survey are recommended.

ACCOMPANYING MAPS

(1.) Drawing 3079 - "Magnetometer Survey".

INTRODUCTION

Taylor Gold Mines Limited Hi-Way claims comprise the following contiguous group in Eby Township:

P90284	NW¼	S½	Lot 3	Concession V
P90285	NE¼	S½	Lot 3	Concession V
P90286	SE¼	N½	Lot 3	Concession V
P90287	NE¼	N½	Lot 3	Concession V

The claims were staked and recorded in March 1965 and presently are registered in the name of Taylor Gold Mines Limited, Suite 1000, 11 Adelaide St. W., Toronto, Ontario.

The magnetometer survey was done by Geophysical Engineering and Surveys Limited personnel under the direct supervision of the writer during the period March 10-14, 1966. The operator was A. MacDonnell, 83 Algonquin Blvd. E., Timmins, Ontario.

LOCATION & ACCESS

The claims are located in the northeast part of Eby Township, Larder Lake Mining division, a distance of 8 miles to the southwest of Kirkland Lake, Ontario. Approximate co-ordinates are 48° 05' north, 80° 10' west.

Access to the claims is by Highway no. 11 which passes through the claims at a point two miles approximately to the southeast of Kenogami, Ontario.

SURVEY METHODS

Line Cutting

Lines were cut in both directions at 300-foot intervals from a base line oriented N 45° E. Tie lines were established along the claim boundaries.

Approximately 7 miles of line was cut.

Magnetometer Survey

The magnetometer survey was done with a Sharpe Fluxgate Model M. F. 1 magnetometer having a constant of 20 gammas per scale division. Readings were taken at 100-foot intervals along all the picket lines with fill-in readings at 50-foot intervals in areas of high magnetic relief. Diurnal readings were taken at 1 to 1½ hour intervals on permanent base stations. The results were corrected, plotted and contoured as shown on the accompanying map.

Approximately 275 readings were taken .

RESULTS OF THE SURVEY

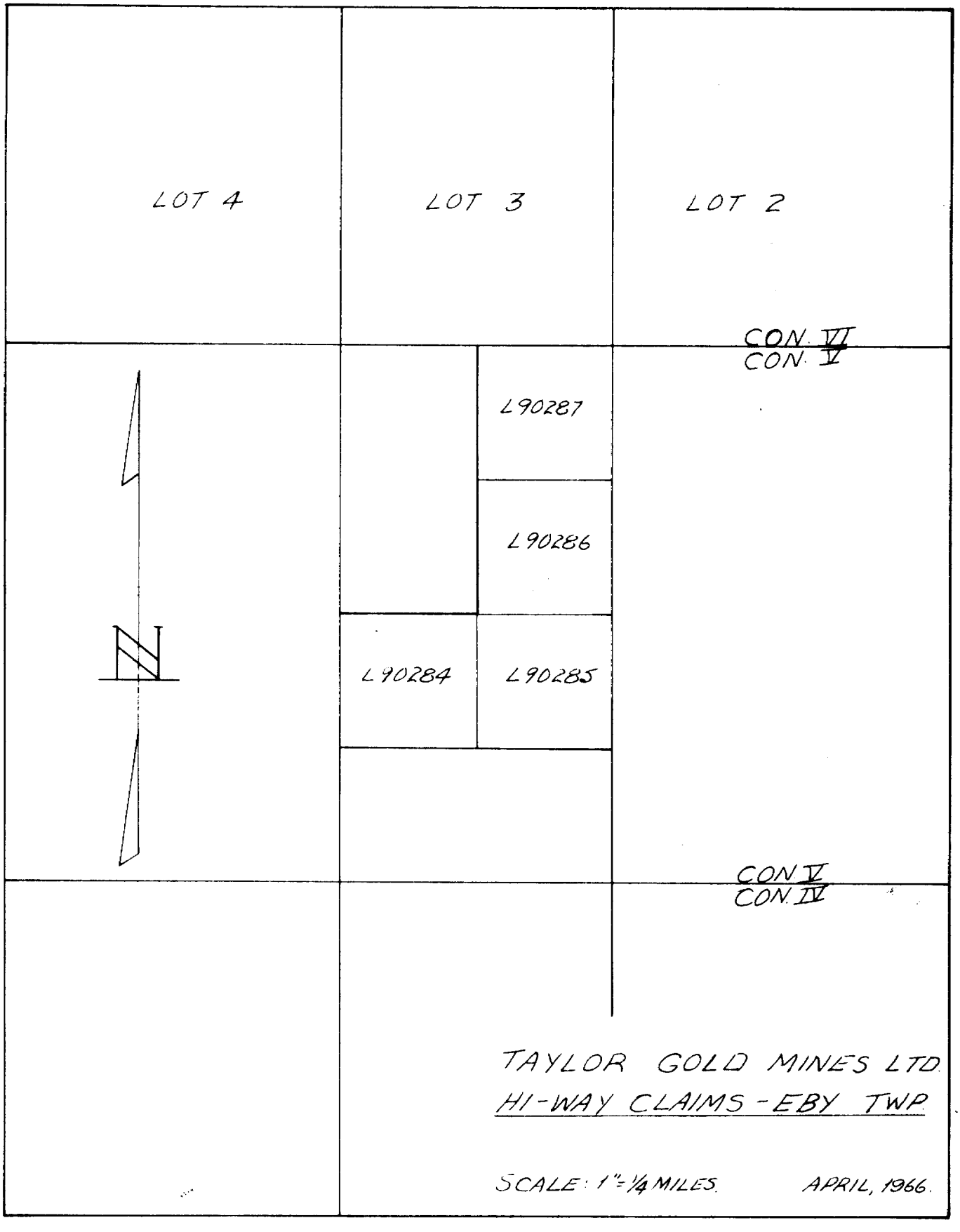
One magnetic trend was outlined. This is a high striking east-west to N 45° E across the southern two claims. Magnetic relief ranges to a maximum of 3800 gammas above background. A second high trend is indicated in the extreme southeast corner of claim L90285, however this lies mostly outside the boundaries of the group. The remainder of the area, particularly the northern two claims, is featured by very low magnetic relief.

GEOLOGY

No geological mapping was done since the survey was done in the winter, however outcrop is present on the claims.

Ontario Department of Mines Map No. 1946-1 titled "Kenogami Lake Area" indicates that the northern two claims are underlain by Algoman diorite and gabbro. The mapping does not cover the southern claims however basic lavas and diorite are indicated to be present. A major fault with carbonate alteration is indicated also.

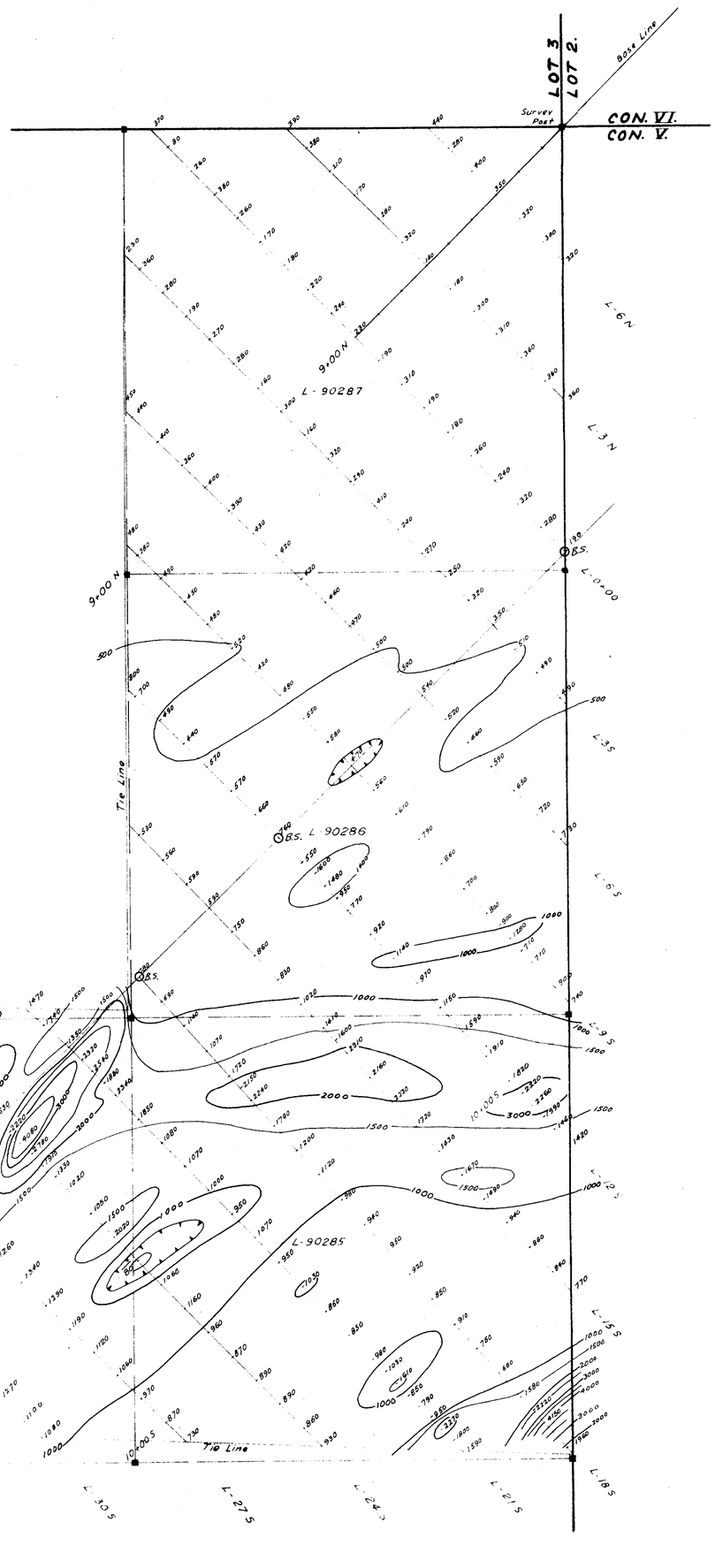
The high magnetic anomalies are interpreted to be magnetite-rich sections within the basic flows or possibly lean iron formation zones.

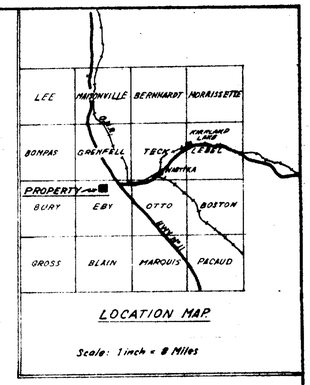


TAYLOR GOLD MINES LTD.

HI-WAY CLAIMS - EBY TWP.

SCALE: 1" = ¼ MILES. APRIL, 1966.





LEGEND.

Note: Values shown thus 1900 / 1850 are in gammas.

Contours shown thus 1500 are at 500 gamma intervals.

Instrument: Sharpe Fluxgate Magnetometer Model MF-1.

Operator: A. Mac Donnell.

O - BASE STATION

MAGNETOMETER SURVEY.

OF

HIGHWAY CLAIMS

TOWNSHIP OF EBY,
PROVINCE OF ONTARIO.

FOR

TAYLOR GOLD MINES, LTD.

BY

GEOPHYSICAL ENGINEERING AND SURVEYS LIMITED.

Scale: 1 inch = 200 feet

0 200 400 600

REGISTERED PROFESSIONAL ENGINEER MINING H. D. McLEOD PROVINCE OF ONTARIO

H.D. McLeod P.Eng

Drawn by J.R.N.	NTS 42 P/1	MARCH 1966		DWG. 3079.
Checked by				

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