



32D04SW0328 63.1033 GAUTHIER

INTRODUCTION

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A magnetometer survey was carried out over two groups of claims held by Kelkirk Mines Limited, which are located in Gauthier and McElroy Townships, Ontario during January, 1960.

The east group consists of four claims which are described as follows:

Claims 70074, 70075, 70076 & 70077

The west group consists of six claims as listed:

- 70068
- 70069
- 70070
- 70071
- 70072 &
- 70073

The two claim groups are located in about the centre east-west of Gauthier and McElroy Townships and straddle the joint boundary.

The properties are readily accessible as Highway #68 passes just north of them and branch roads run from the highway to each claim group.

A grid of north-east south-west picket lines were cut over the property at 400 foot intervals, and magnetic readings were taken at 100 stations. (EAST GROUP)

A Sharpe A - 2 magnetometer was used in the survey and all readings were corrected to a common base station.

225 STATIONS (WEST GROUP)

WA

INTRODUCTION (Contd).

The results of the survey have been plotted on the accompanying map, which is on the scale of 1 inch equals 400 feet.

GENERAL GEOLOGY

The geology of the area is shown on Map No. 50C entitled "Township of Gauthier" published by the Ontario Department of Mines.

The northern part of the eastern group is shown to be underlain by an intrusive mass which consists mostly of gabbro. The southern part is underlain by basic volcanics. The general strike of the formation is east-west.

The western group is underlain by basic to intermediate volcanics which strike north-west south-east.

DISCUSSION OF MAGNETIC RESULTS

East Group

One medium strength magnetic anomaly (A) occurs at the north boundary of the eastern part of the group. An outcrop of gabbro coincides with this indication. This anomaly probably represents the edge of the basic intrusive mass to the north.

A weak magnetic zone (B) trends east-west across the southern part of the property. The anomaly is about 300 to 600 gammas above normal. It is suspected that this anomaly is due to a basic sill or dyke.

DISCUSSION OF MAGNETIC RESULTS (Contd).

West Group

A north westerly trending narrow magnetic zone of medium strength cuts across the north central part of the property. This anomaly is referred to as (C) and is about 800 gammas above normal. It is suspected that this anomaly is caused by a basic dyke.

Another weak circular magnetic anomaly (D) occurs on the west central part of the property.

RECOMMENDATIONS

It is recommended that anomalies (B) and (C) be investigated on the ground, as it is possible that they may be due to mineralization. If the reason for the anomalies cannot be determined by surface prospecting, a drill hole should be put down to test each of the anomalies.

The suggested location of the holes are set out below:

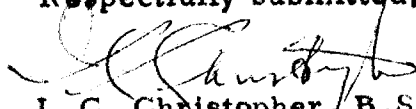
Hole # 1

Collar at chainage 400 north on line
4E. Hole to be drilled south along
picket line at 45°.

Hole # 2

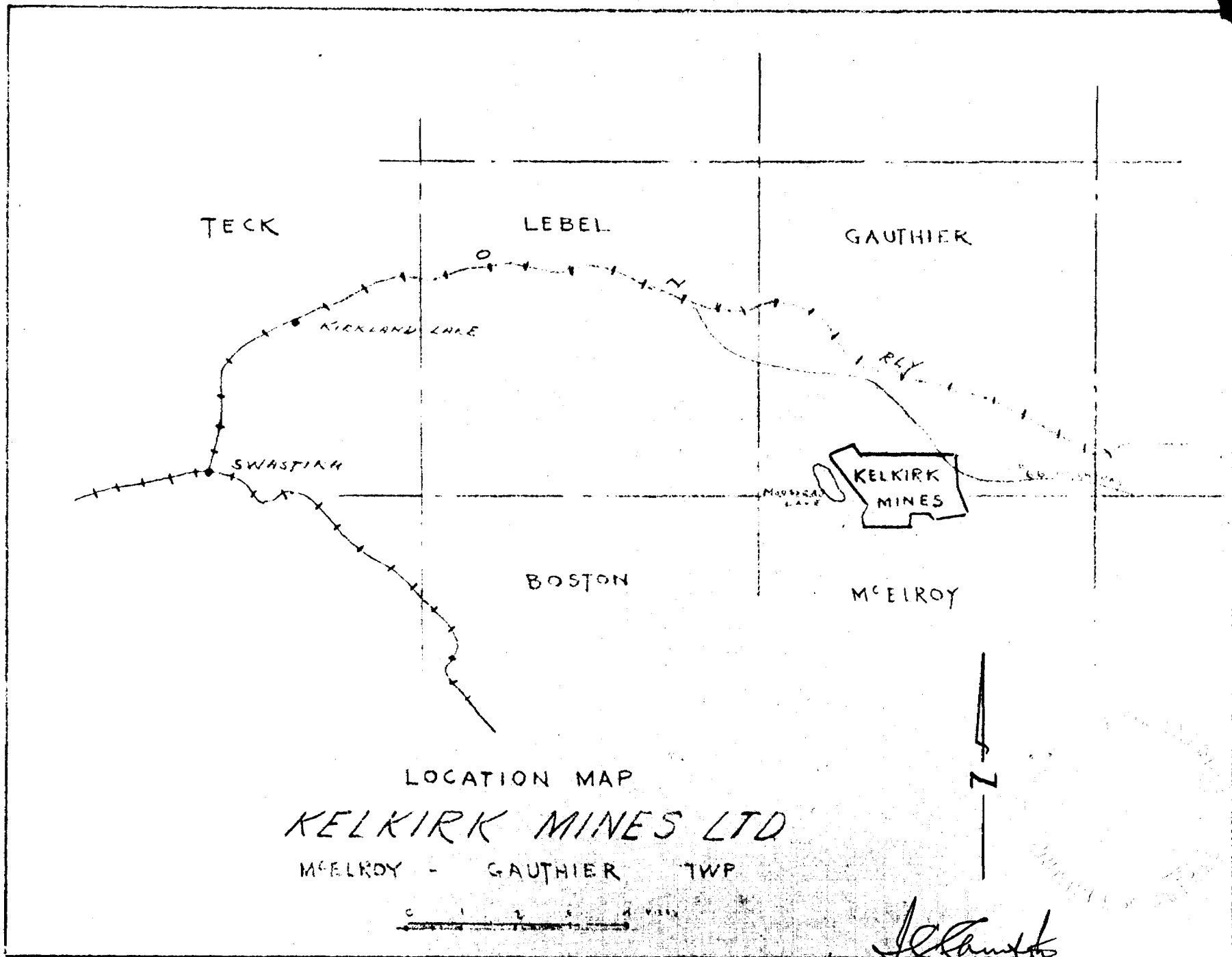
Collar at chainage 700 south on line
4E. Hole to be drilled south at 45°.

Respectfully submitted,



I. C. Christopher, B.Sc., P.Eng.

Toronto, Ontario.
January 18, 1960.



TECK

LEBEL

GAUTHIER

KIRKLAND LAKE

SWASTIKA

KELKIRK
MINES

M'OSCOO
LAKE

BOSTON

M'ELROY

LOCATION MAP

KELKIRK MINES LTD

M'ELROY - GAUTHIER TWP



J. Crawford

