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REPORT
ON
A MAGNETOMETER SURVEY, WEDGE CLAIM
QUEENSTON GOLD MINES LIMITED
TECK TOWNSHIP
KIRKLAND LAKE AREA
ONTARIO

JAN - 6 1980

MINING LANDS SECTION

INTRODUCTION

On October 31st, 1980 the writer, assisted by Gary McAuley, Prospector, 4 Teck St., Kirkland Lake, Ontario, completed a magnetometer survey on flagged lines over the claim for assessment purposes.

The claim, L.545718, is located in the extreme southwest corner of the Teck Township. It lies 1/2 mile east of the west boundary and about 3/4 mile north of the south boundary of the township. Access is by trail from the Village of Swastika, a distance of about 1 mile.

The claim forms a wedge jutting into patented claims owned by Queenston Gold Mines Limited.

Approximately 5,400 feet of line was surveyed including a north/south control line.

GEOLOGY & TERRAIN

The claim lies entirely within the Temiskaming Group - a narrow belt of rock in the form of a synclinorium, about 3,000 metres thick consisting of alkali volcanic rocks interlayered with fluviatite sedimentary rocks. Within the claim the rocks are mainly tuff and agglomerate with conglomerate along the north. Both are cut by narrow basic syenite and diabase dikes.

The terrain is featured by very sharp relief in the form of deep valleys and steep cliffs. The extension of the Kirkland Lake fault is interpreted on O.D.M. Map 1945-1, Teck Township, as occupying the low ground along the north boundary of the claim.

METHOD

The magnetic readings were taken with a Barringer Proton Precession Magnetometer with a sensitivity of ± 10 gammas. Accuracy for the survey was calculated to be ± 30 gammas. Measurements were acquired at 100 foot intervals on lines 200 feet apart. Control for drift corrections was established by the normal looping method using a common base station. The magnetic readings have been posted on a plan map at a scale of 1 inch to 200 feet.

54 readings were taken.

The magnetic readings have been contoured at 200 gamma intervals.

RESULTS

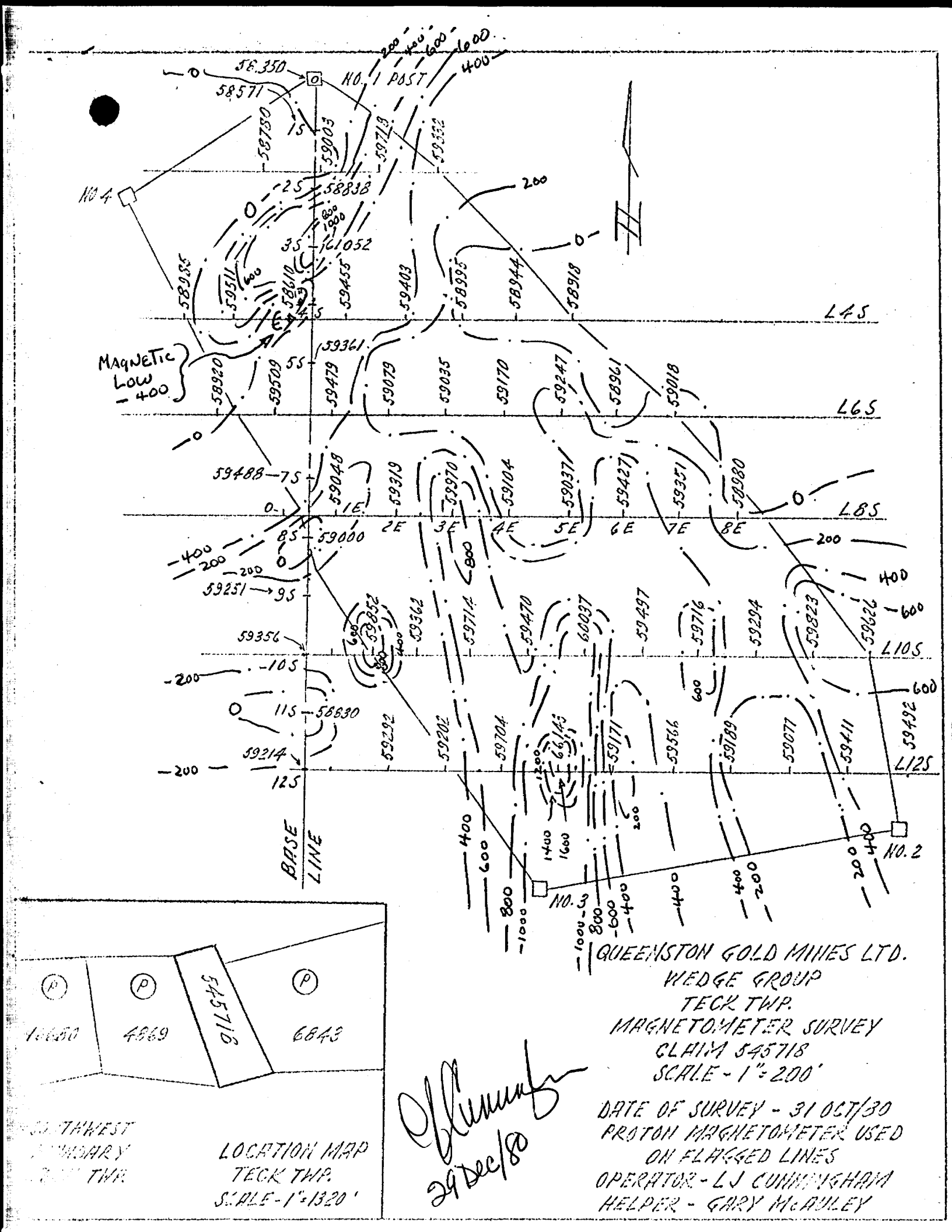
The relatively broad contour varying from 0 to 600 gammas over the central and southeast parts of the claim are thought to represent tuff and agglomerate. The pronounced "highs" (magnetic highs) in the north and southwesterly parts are thought to represent mafic syenite or diabase dikes.

It is recommended that a VLF EM survey be completed in an attempt to identify the Kirkland Lake Break.

Signed,

P. J. Cumming B.Sc. P.Eng

29 Dec/80



QUEENSTON GOLD MINES LTD.
WEDGE GROUP
TECK TWP.
MAGNETOMETER SURVEY
CLAIM 545718
SCALE - 1" = 200'

DATE OF SURVEY - 31 OCT/80
PROTON MAGNETOMETER USED
ON FLAGGED LINES
OPERATOR - LJ CUNNINGHAM
HELPER - GARY McAULEY

29 Dec/80

Ontario

Ministry of Natu

GEOPHYSICAL – GEOLOGI
TECHNICAL DATA

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JUN - 6 1980

MINING LANDS SECTION

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) MAGNETOMETER
Township or Area TECK TWP.
Claim Holder(s) L. M. DYMENT LIC K18402

Survey Company L. I. CUNNINGHAM + ASS
Author of Report L. I. CUNNINGHAM
Address of Author 1 McPhee Ave Kirkland Lake. Ont
Covering Dates of Survey 31 Oct/80 - 29 Dec/80
(linecutting to office)
Total Miles of Line Cut 1. MILE P2N 1M1

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

DAYS per claim

Geophysical
--Electromagnetic
--Magnetometer 20
--Radiometric
--Other
Geological
Geochemical

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer ____ Electromagnetic ____ Radiometric ____
(enter days per claim)

DATE: 29 Dec/80 SIGNATURE: [signature]
Author of Report or Agent

Res. Geol. ____ Qualifications 63.1603

Previous Surveys

File No.	Type	Date	Claim Holder
			LD

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	545718

If space insufficient, attach list

TOTAL CLAIMS 1

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations 54 Number of Readings 54

Station interval 100 feet Line spacing 200 Feet

Profile scale

Contour interval 200 GAMMAS

MAGNETIC

Instrument BARRINGER PROTON PRECESSION MAGNETOMETER

Accuracy – Scale constant ± 30 GAMMAS

Diurnal correction method — LOOPING METHOD

Base Station check-in interval (hours) - 1 HOUR.

Base Station location and value 1/0.1 POST of Claim L545718

VALUE 58350 gammas

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency
(specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION
RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode