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REPORT ON A GEOMAGNETIC SURVEY OF THE
MORAE CLAIMS, HARKER TOWNSHIP, ONTARIO.

REPORT ON A GEOMAGNETIC SURVEY OF THE
NORME CLAIMS, HARKER TOWNSHIP, ONTARIO.

An area comprising 9 claims (44734 to 44742 inclusive) in south-east Harker Township, was surveyed geomagnetically using an Askania-type vertical magnetometer. Observations were made at 100-foot intervals along north-south picket lines spaced at 200-foot intervals along a baseline running due west from the #1 post of claim #44739.

Geology of the Area:

The surveyed area is entirely drift-covered but outcrops occur to the south and east on the property of Harker Gold Mines Ltd. where Keswatin greenstone with narrow bands of rhyolite are found. Bosses of feldspar and syenite porphyries intrude the Keswatin rocks in southeast Harker Township while large intrusive masses of gabbro outcrop along the north boundary of Harker.

Discussion of Results:

The accompanying contour map shows the geomagnetic features of the area.

A complicated zone of high magnetic intensity strikes northeasterly across claims 44734, 44735 and 44736 reaching greatest intensity in the northwest corner of 44734. This zone displays magnetic features similar to those observed near the gabbro masses of northern Harker. A smoother and less intense anomaly strikes northeasterly parallel to the regional structural trend across claims 4474 and 44739. This anomaly forks in claim 44740. The north branch dips to the southeast and the south branch dips

to the northwest so that the whole structure resembles an east-plunging syncline, or branching shear.

This is considered to be the most favourable zone on the property and both branches of the anomaly can be explored by drilling two holes from the same set-up as set out below.

In the extreme southeast corner of 44739 a pronounced magnetic low may indicate the presence of a porphyry or syenite body similar to those which are exposed on the neighbouring Harker Gold Mines property.

Other acid intrusives may occur in the magnetic lows observed in the southeast corner of claim 44742 and in claim 44741.

Recommendations:

The following program of diamond-drilling is designed to test the important anomalies with a minimum of expense.

HOLE NO.	LOCATION	DIRECTION	DIP	LENGTH	DEPTH OF OVER-BURDEN
1	1500 W 700 S	N 68°W	45°	550'	100' 25
2	1500 W 700 S	N 145°E	45°	900'	

Further recommendations will be made following the completion of this drilling program.

John H. Low
J. H. Low,
Geologist.

R. D. Keovil
R. D. Keovil,
Consulting Geophysicist.

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McRAE - HARKER CLAIMS
 Harker Township Ontario
 Scale 1" = 200'
LEGEND

- Very high magnetic intensity
- High magnetic intensity
- Low magnetic intensity

By Dr. W. D. Keevil
 Consulting Geophysicist

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