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A REPORT ON VLF ELECTROMAGNETIC SURVEYING

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CLAIM L 664057, ELLIOTT TWP.

LARDER LAKE MINING DIVISION, ONTARIO

RECEIVED

DEC 1 0 1985 MINING LANDS SECTION

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Markham, Ontarlo December 12, 1985

L.G. Hobbs, P.Eng

Juan 2.4358

GENERAL

During the fall of 1985 a VLF Electromagnetic survey was done over claim L 664057 located in the northwest quadrant of Elliott township in the Larder Lake mining division of Ontario. This work is part of a survey covering a group of claims held by Union Mining Corp. and is submitted in part at this time due to assessment work requirements of the Ontario Ministry of Natural Resources.

LOCATION, TOPOGRAPHY AND ACCESS

Claim L 664057 lies in the northwest part of Elliott Twp. about 1/2 mile west of the north end of Ghost Lake. It is overlain mainly by sand and silt deposits forming a gently rolling topography covered by jackpine, birch, spruce and relatively minor secondary growth.

Access is by float plane onto Ghost Lake or by truck via a series of secondary sand roads through Garrison and Thackeray townships leading off highway 101 east of the town of Matheson. These roads lead to within 1000 ft. of claim L 664057.

GRID

A grid was cut to roughly coincide with an older grid cut for ivan C. Stairs in 1962. The baseline was cut at an azimuth of 70 degrees with ilnes off it at 400 ft. intervals. A total of 1100 ft. of baseline and 4300 ft. of crosslines were cut.

INSTRUMENT AND SURVEY

A Geonics EM16 VLF (Very Low Frequency) receiver was used to read the electromagnetic field transmitted from the marine navigational transmitter at Cutler Me. Readings of in-phase and quadrature dip angles were recorded.

The instrument was read at 100 ft. intervals along the grid. A total of 47 stations were read, plotted and profiled.

RESULTS AND INTERPRETATION

The results are plotted at 1 inch equals 200 ft. and profiled at an amplitude scale of 1 inch equals 20 degrees on the map which accompanies this report. No outcrop is known to exist on the claim.

The following observations may be made.

- 1. No true in-phase crossovers were detected by the survey.
- 2. Quadrature readings increase in amplitude to the south suggesting deeper conductive overburden in this direction.

- 3. Anomalous readings were detected on line 64W at 1+50N and on line 60W at 0+50N with the strongest response occurring on line 60W. Both in-phase and quadrature readings are affected but only the quadrature readings actually cross over. The pattern suggests a ridge of subcrop entering the survey from the east rather than a sulphide conductor. This feature is directly on strike with a magnetic ridge which crosses line 68W at 3N previously interpreted as possibly being caused by iron formation.
- 4. A reversal of the in-phase patterns at the south edge of the survey is believed to be caused by topography, a relatively steep down hill slope to the south being observable at this location.

Respectfully submitted,

L.G. Hobbs, P.Eng.

CERTIFICATE

I, L.G. Hobbs, do hereby certify:

That I graduated from the University of Toronto in 1958 with the degree of B.A.Sc. in engineering geology.

That I have practiced my profession as a geologist since graduation.

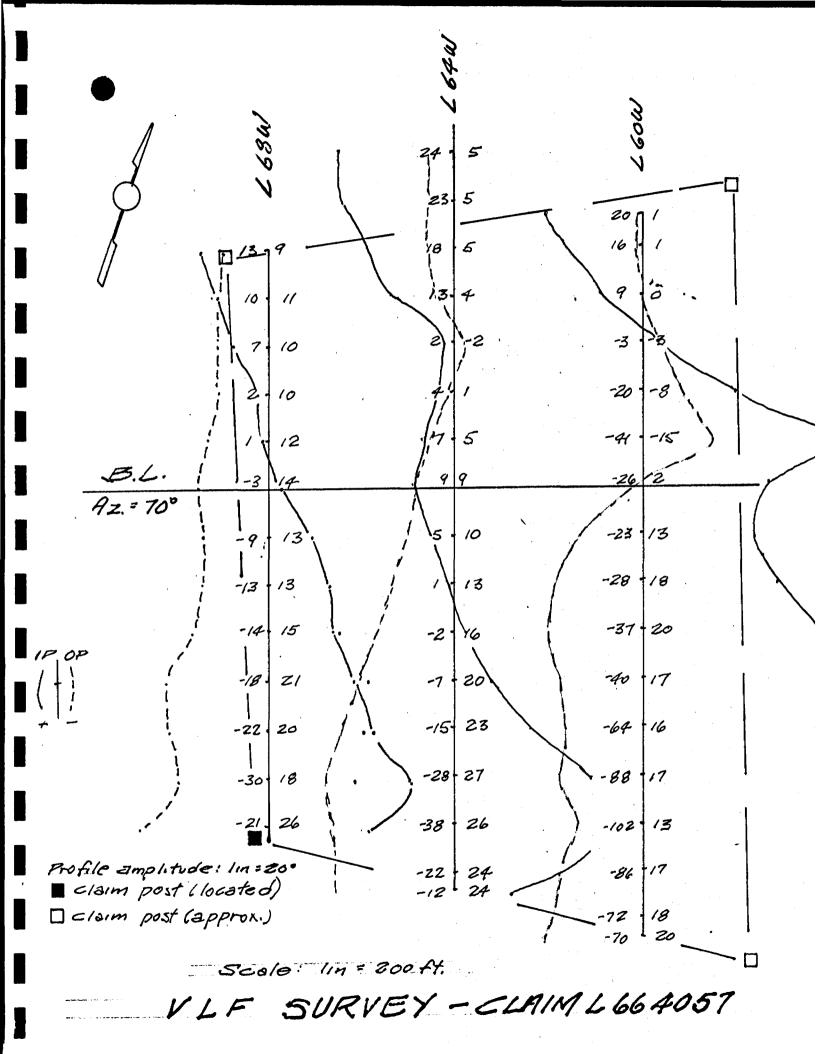
That I maintain an office at Suite 4, 101 Amber St., Markham, Ontario.

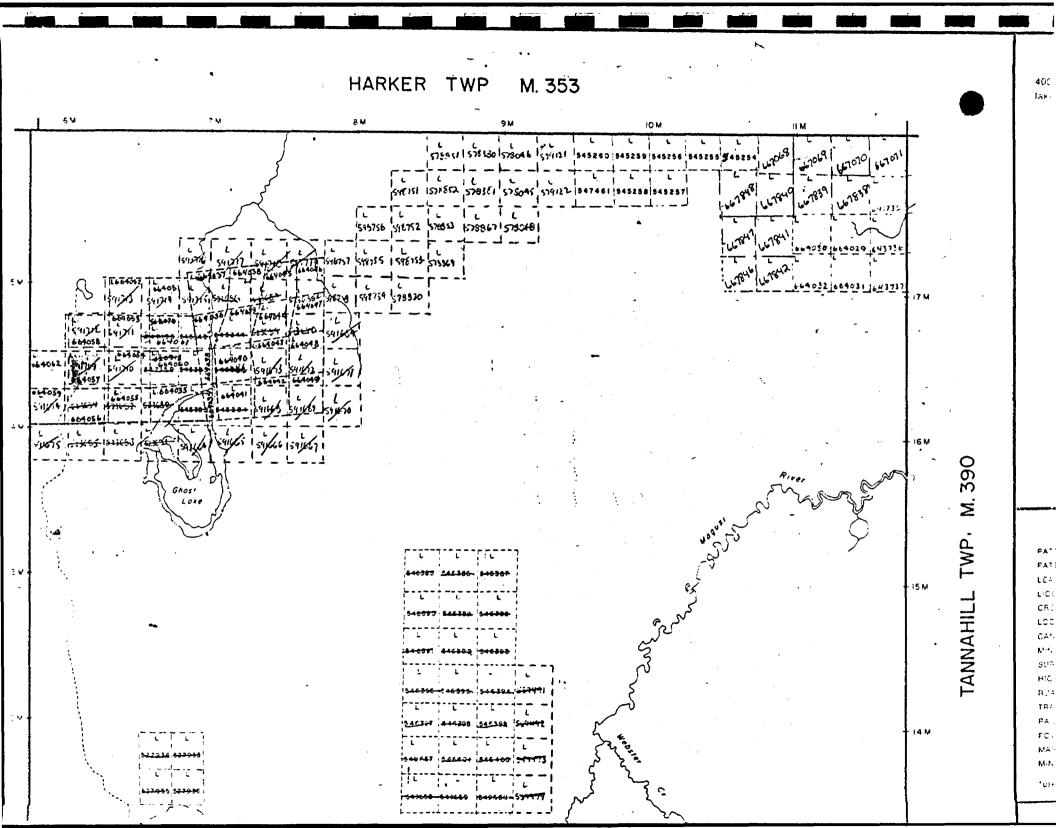
Association of Professional That I of the am member 8 Ontarlo Engineers the Prospectors Developers of and and Association.

That the foregoing report is based on the author's personal supervision of the survey described.

L.O.Hobbs, P.Eng.

Markham, Ont. Dec. 12, 1985







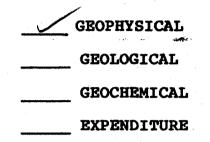
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Mining Lands Section

Control Sheet

TYPE OF SURVEY



MINING LANDS COMMENTS:

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J. Hurst

Signature of Assessor

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Date

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or witnessed same during and/or after its completion and the annexed report is true.									
Name and Postal Address of Person Certifying									
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