



42B01NW0011 2.207 MUSKEGO

010

Suite 1101, 302 Bay Street,
Toronto 105, Ontario

November 6, 1970.

Mr. A. W. White,
Suite 416, 25 Adelaide St.,
Toronto 1, Ontario.

Dear Mr. White:

Submitted herewith is a report on:

UNITED MACFIE PROPERTY
PORCUPINE MINING DIVISION
ONTARIO

The ground geophysics showed the property to lie within the pre-Cambrian granite. Partially digested andesitic volcanic xenoliths were mapped within the granite.

Diamond drilling is not recommended at this time based on the ground geophysics carried out by W. G. Wahl Limited. If the option agreement states that diamond drilling is required it is recommended that one hole be drilled under the trench to check the geophysical hypothesis and verify the assays obtained.

GENERAL

The logging road-trail which leads to the property is located on the north side of the highway approximately 10 miles east of Foleyet. From the highway it is approximately one mile to the baseline. The survey was run over the following mineral claims:

279191	279195	279199	279203
279192	279196	279200	279204
279193	279197	279201	279205
279194	279198	279202	279206

The geology of this area is shown as Geological Map No. 2116 "Chapleau - Foleyet Sheet" by the Ontario Department of Mines. Airborne magnetometer data covering this area is published in Geophysical Paper 2263-G "Groundhog Lake" by the Geological Survey of Canada. This area is coded under the National Topograph Series 42-B-1.

A grid system comprising of 64,550 feet was established to cover the claims. The baseline trends N 45° W with picket lines trending N 45° E at 400 foot intervals. One hundred foot stations were established on all lines.

GEOLOGY

The geology as published by the Ontario Department of Mines was extended and defined by the geophysical surveys and a

compilation of the data is appended.

The andesitic volcanic rock occur as xenoliths within the granite. These xenoliths represent various stages of digestion and assimilation by the granite. The frequency of these xenoliths becomes greater near the contact. Only within the larger inclusions are the original volcanic structures and minerals preserved and these are mapped by relatively strong linear magnetic anomalies. Remnants and ghosts of the smaller xenoliths are mapped by weak, linear magnetic anomalies.

As the mineralization is concentrated in volcanic xenoliths and as there is a direct relationship between the mineralization and the mass of the volcanic remnant, the magnetic anomalies mapped more favourable host rocks.

An east-north-east striking fault cuts through the southeast corner of the property. A left hand movement of approximately 600 feet is noted along the fault trace. This feature was mapped very well by the EM survey.

MAGNETOMETER SURVEY

The ground magnetometer survey was completed under the direct supervision of D. G. Wahl, P.Eng., during the period of October 18th to October 20th, 1970. A Barringer GM 102 Magneto-
meter with a sensitivity of 10 gammas recorded the total field

magnetic intensities at fifty foot intervals on all lines. In excess of 1200 stations were occupied.

The magnetic data was reduced to a local datum and adjusted for magnetic diurnal. The data is presented on the enclosed maps as corrected station values and as a contoured interpretation of these data.

The granite is characterized by low uniform magnetic relief in the range of 600-800 gammas.

The andesitic inclusions are identified by higher magnetic relief of from 800-1500 gammas.

EM SURVEY

The electromagnetic survey was conducted by D. G. Wahl, P.Eng., during the period from October 18th to October 20th, 1970, employing a Crone Radam VLF EM Survey Unit. This unit measured the inclination or dip and the total field intensity with a sensitivity of 1° of dip and 1% field intensity. The VLF station used is located at Cutler, Maine, having a frequency of 17.8 KHz. All observations were taken facing east. Stations were occupied at 50 foot intervals on the established grid.

A weak conductor was mapped lying in an andesitic inclusion within the granite.

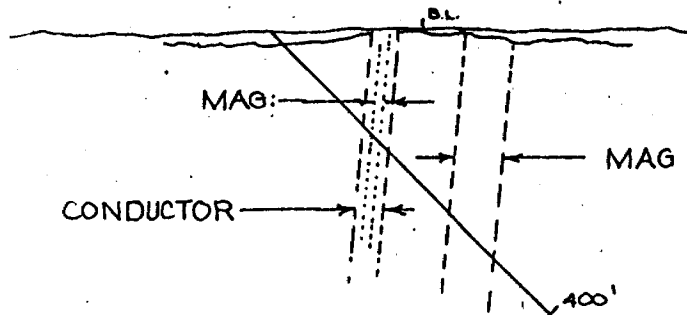
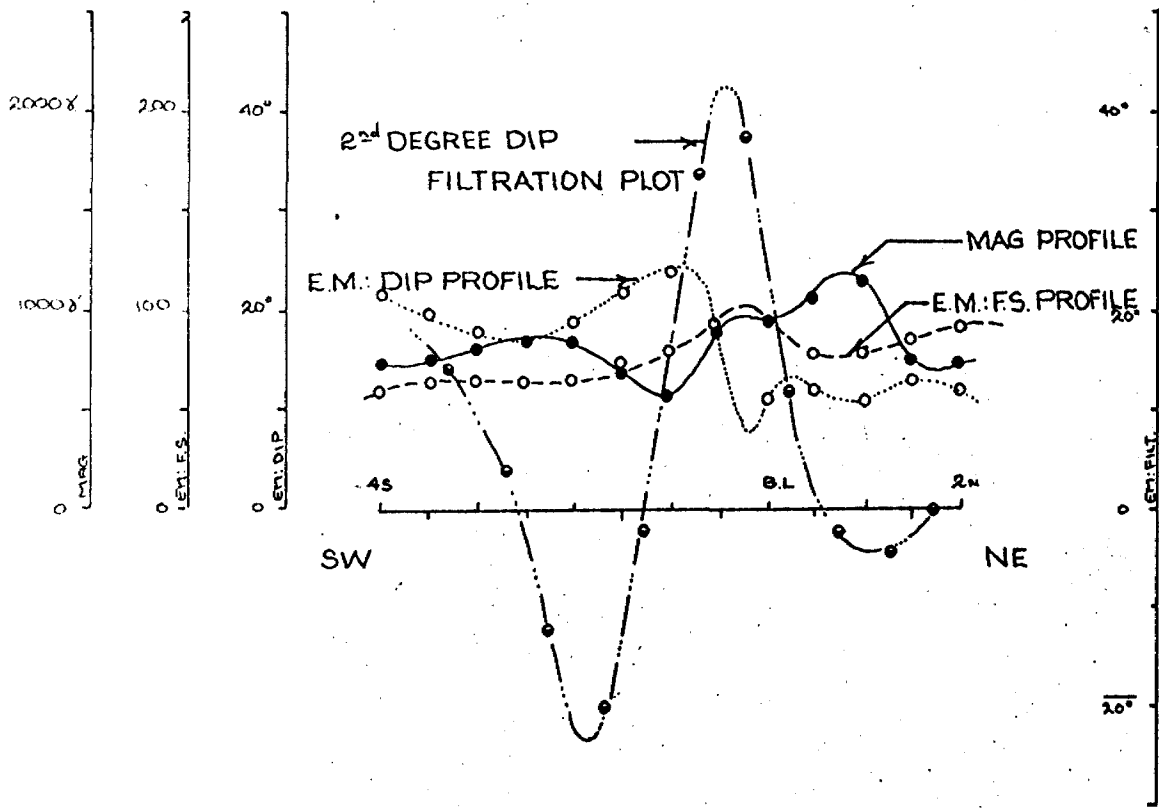
A second degree filtration was applied to further evaluate the EM response mapped as Anomaly 1. This second degree filtration plot makes use of the EM dip angle and is interpreted in the same manner as the EM field strength profile. This method clearly defines Anomaly 1.

ANOMALY 1

This weak anomaly is associated with an andesitic volcanic xenolith within the granite located roughly parallel to and coincident with the baseline at station 0+00. The enclosed profile indicated a steeply dipping conductor having a maximum width of up to 20 feet. The magnetometer profile indicates a direct magnetic association with the conductor as well as the presence of a stronger flanking magnetic zone. Previous trenching in the area verifies the validity of the EM anomaly over the causative body to be a low tenor sulfide mineralization running 0.30% copper.

SAMPLING

A detailed chip sampling program was carried out on the trench located on the baseline at station 0+00. Both walls of the trench were sampled independent of each other to achieve the most unbiased assay possible. The overall length of the trench was 27 feet with samples taken over differing lengths to segregate rock types. Approximately five pounds of chips were taken from

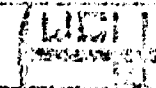


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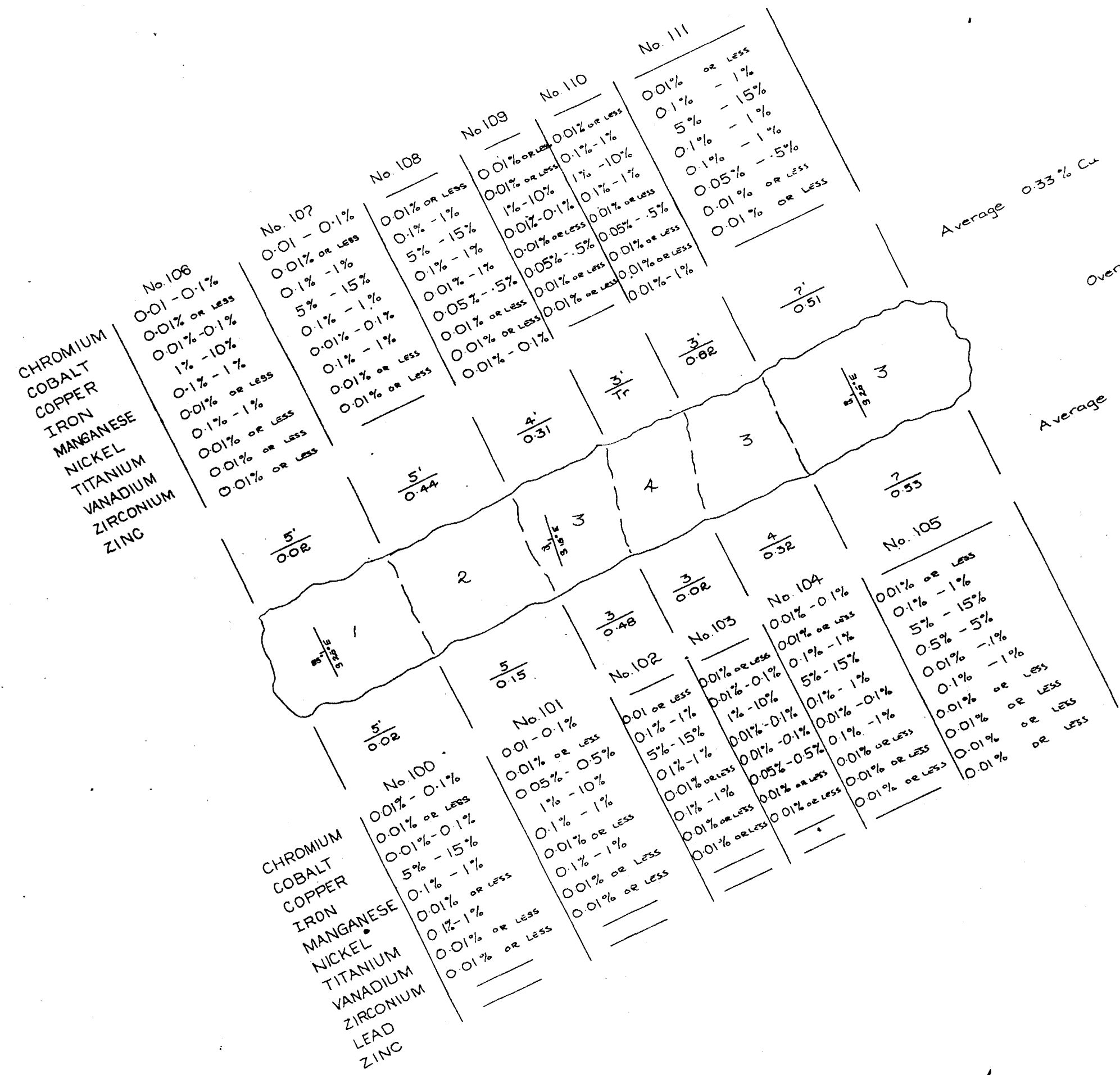
ANOMALY I

SCALE: 1 INCH TO 200 FEET

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OCTOBER 1970



Average 0.33% Cu
 Overall weighted average 0.30% Cu

Average 0.27% Cu




- 4 GRANITE
- 3 BANDED SILICEOUS ZONE
QTZ.-FE-PY-Chalco
- 2 CHLORITIZED ANDESITE
- 1 ANDESITE

$\frac{5'}{0.02}$ Footage
 %age Cu

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ASSAY RESULTS

SCALE: 1 INCH TO 4 FEET

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each sampled section. The samples were run for copper, gold and silver. The copper values are presented on the enclosed sketch. The gold and silver values ran nil and trace respectfully. A 30 element spectrographic analysis was also conducted on the samples and the results are presented on the enclosed sketch.

The weighted copper assay for the north side of the trench is 0.33% and for the south side 0.27% with an overall weighted copper value of 0.30 percent. The assaying was carried out by X-Ray Assay Laboratories Limited of Don Mills, Ontario.

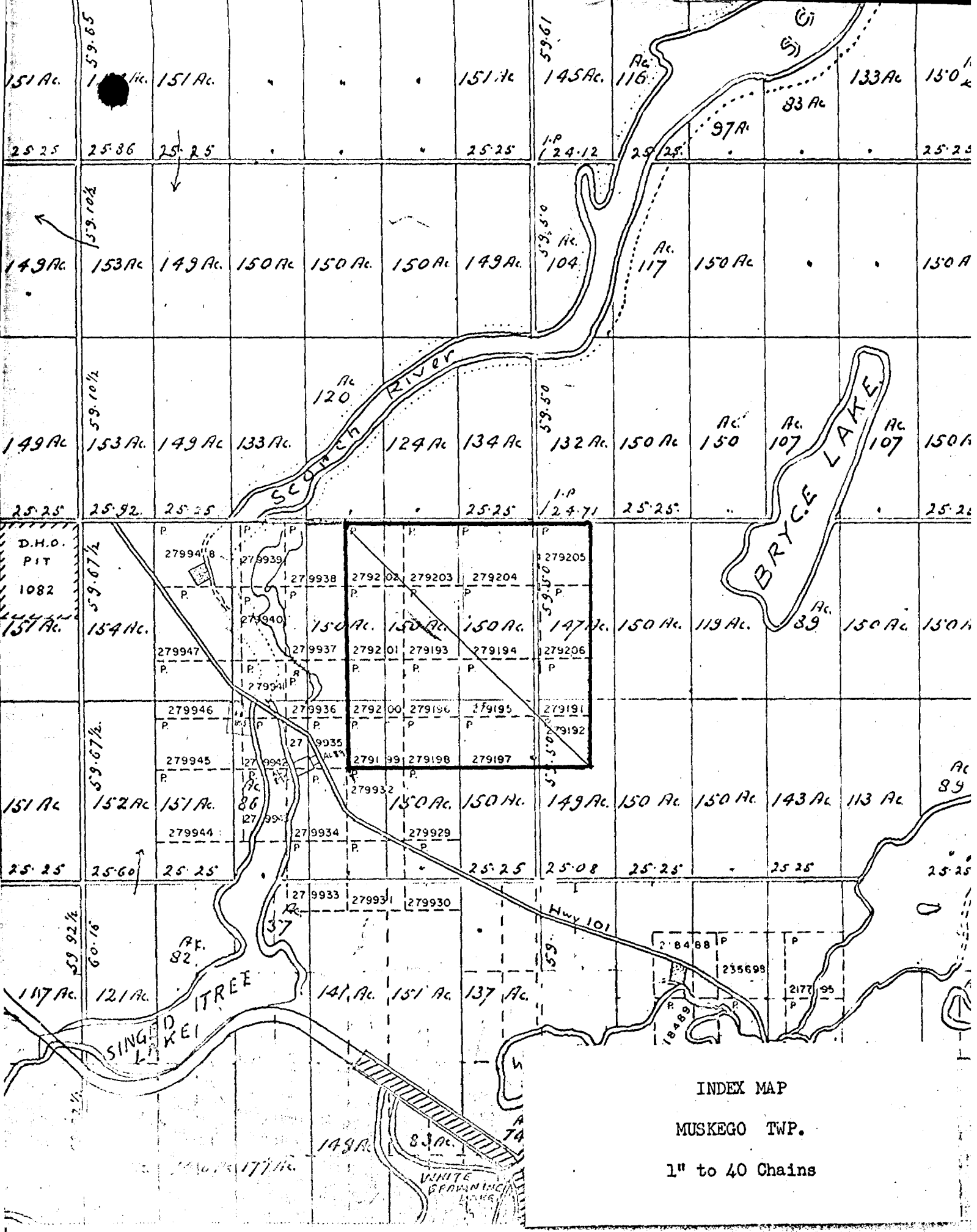
All of which is respectfully submitted.

Yours very truly,

W. G. WAHL LIMITED



D. G. Wahl, P.Eng.



INDEX MAP
 MUSKEGO TWP.
 1" to 40 Chains

AREA CODE - 705
TELEPHONE - 267-1171

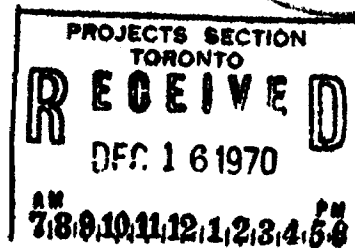


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DEC 16 1970
McGowan

127 Third Avenue DEPARTMENT OF MINES AND NORTHERN AFFAIRS
Timmins, Ontario,
December 14, 1970. MINING LANDS BRANCH
OFFICE OF THE MINING RECORDER



Fred W. Matthews,
Supervisor, Projects Section,
Ontario Department of Mines,
Whitney Block,
Parliament Buildings, Toronto.

NOTIFICATION OF RECORDING
OF ASSESSMENT WORK CREDITS

Date of Recording of Work December 11, 1970.....
Recorded Holder Mid-North Engineering Services Limited.....
..... Suite 416, 25 Adelaide Street West.....
Toronto, Ontario. (address)
Township or Area Muskego Township.....

Type of Survey and number of Assessment Days Credits per claim
GEOPHYSICAL Airborne <input type="checkbox"/> Ground <input checked="" type="checkbox"/>
Magnetometer 40 days
Electromagnetic 20 days
Radiometric days
..... days
GEOLOGICAL days
GEOCHEMICAL days
SECTION 84 (14) days

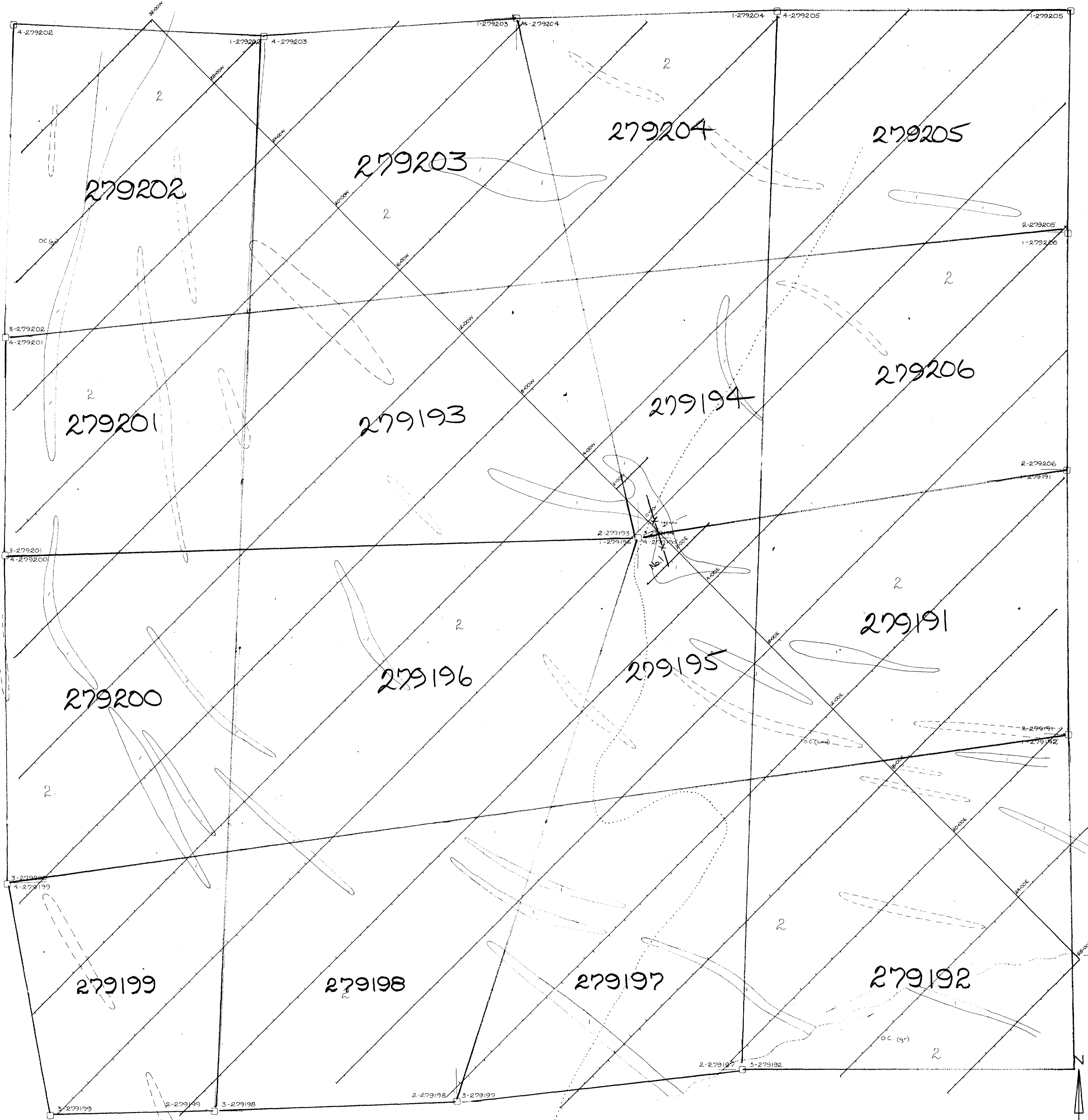
Mining Claims
P-279191-279206 inclusive.

NOTICE TO RECORDED HOLDER

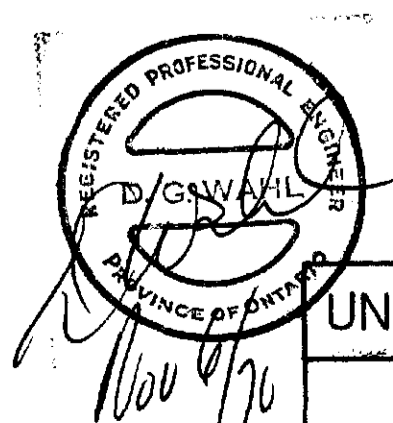
- Survey reports and maps in duplicate must be submitted to the Projects Section, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to Projects Section with this letter.

F. M. Clements
Acting Mining Recorder.

c.c.
Mid-North Engineering Services Limited

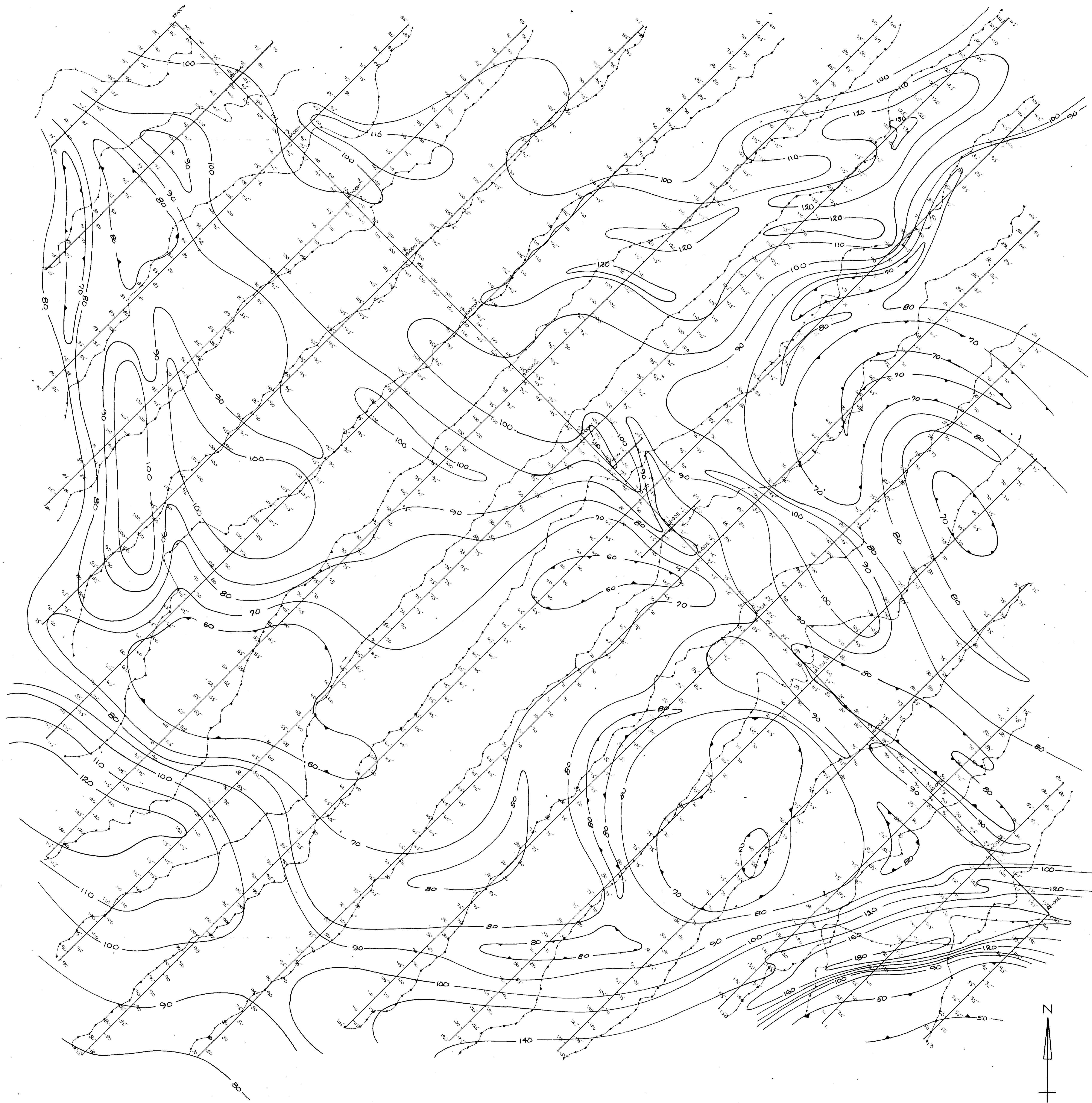


- 2 GRANITE
- 1 ANDESITE
- INFERRED CONTACT
- - - INFERRED GHOST CONTACT
- ~ FAULT
- LOGGING ROAD-TRAIL

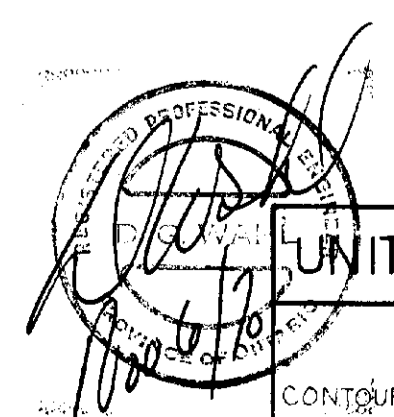


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 GEOLOGY
 SCALE: 1 INCH TO 200 FEET
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DIP SCALE 1 INCH TO 20 DEGREES
 HORIZONTAL SCALE 1 INCH TO 200 FEET
 VLF STATION CUTLER MAINE



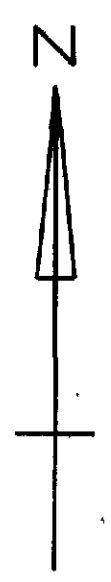
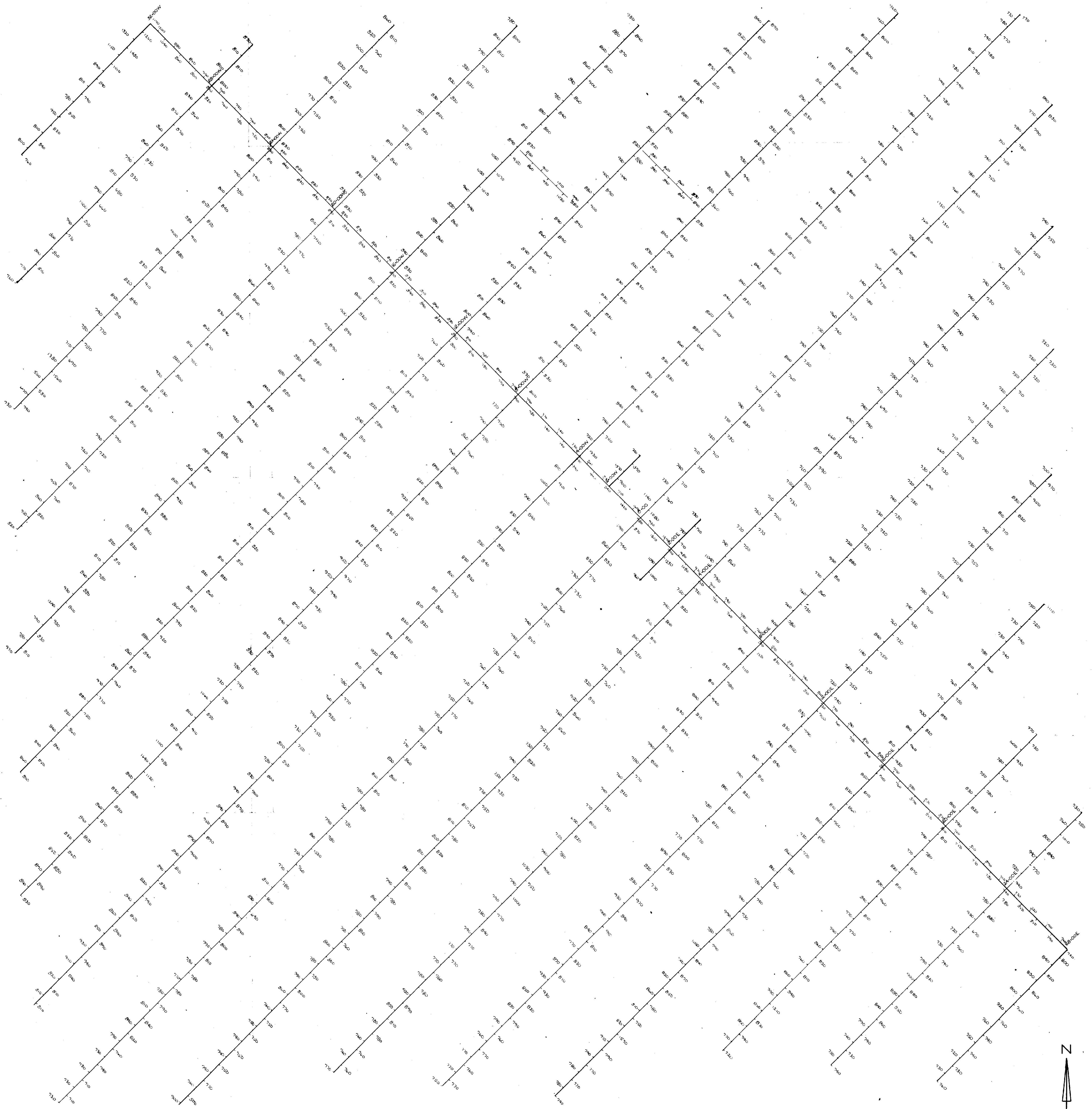
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EM (VLF) SURVEY

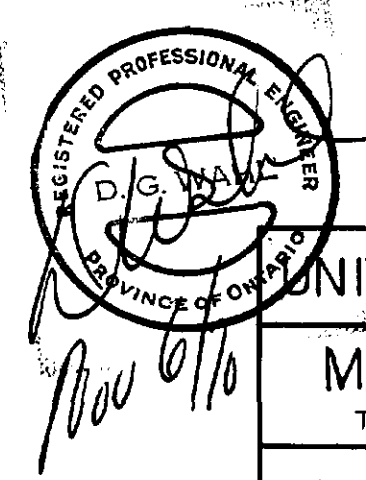
CONTOUR INTERVAL 10% - 20% NORMAL FIELD STRENGTH

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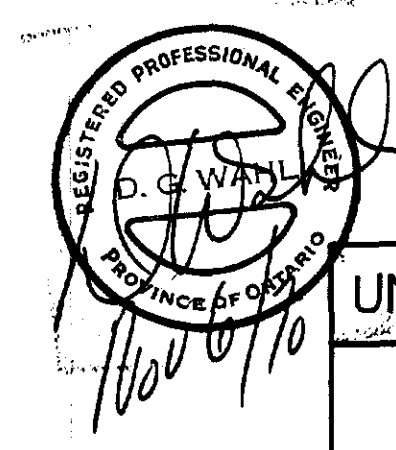
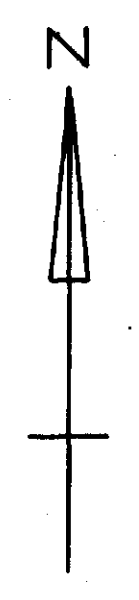
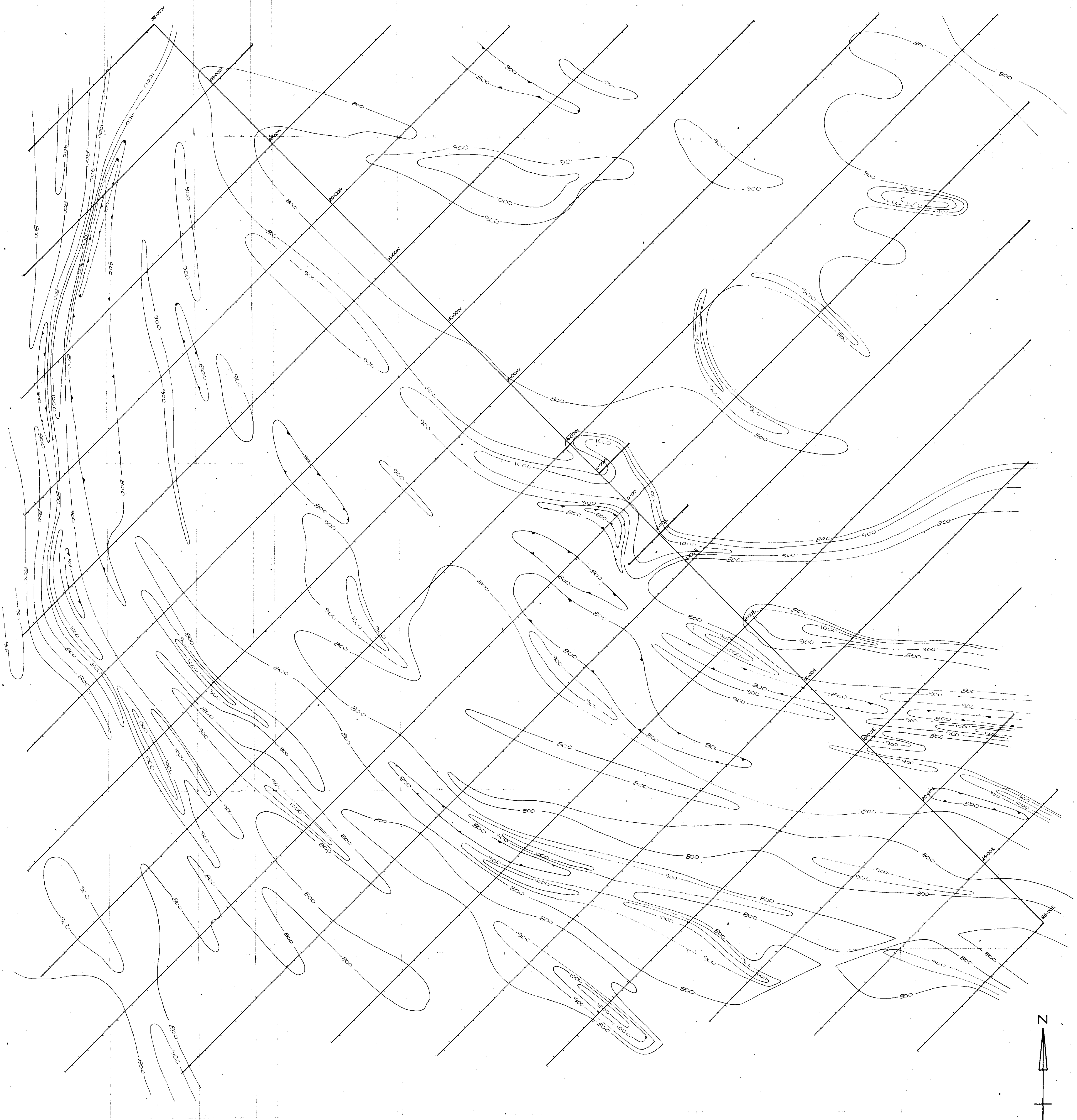
SCALE
1 INCH TO 200 FEET



UNITED MAGFIE MINES LIMITED
MAGNETOMETER SURVEY
TOTAL FIELD VALUES IN GAMMAS

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SCALE
1 INCH TO 200 FEET

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MAGNETOMETER SURVEY

CONTOUR INTERVAL : 100 - 500 γ

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