

2801NW0011 2.207 MUSKEGO

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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:

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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

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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 Magnetometer 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

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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 KH<sub>z</sub>. 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.

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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

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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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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 P.Eng.

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То	wnship or Area		Muskego '	Townshi	<b>p</b>			

Type of Survey and number of Assessment Days Credits per claim		
GEOPHYSICAL Airborne 🗌 Ground 🔀		
Magnetometer		
Electromagnetic		
Radiometric days		
days		
GEOLOGICAL days		
GEOCHEMICAL days		
SECTION 84 (14) days		

### NOTICE TO RECORDED HOLDER

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- 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.



Acting Mining Recorder.

c.c. Mid-North Engineering Services Limited

# PERFORMANCE & COVERAGE CREDITS

ASSESSMENT WORK DETAILS	MINING CLAIMS TRAVERSED
Township or Area <u>Muskego Township</u>	List numerically
Type of Survey <u>Magnetometer Survey</u> A separate form is required for each ty	279191
Chief Line Cutter	279192
Address	279193
Party Chief D. G. Wahl, P.Eng	279194
302 Bay Street, Toronto Address	279195
Consultant Dr. W. G. Wahl, P.Eng	279196
302 Bay Street, Toronto Address	279197
COVERING DATES	279198
Line Cutting	279199
Field Oct. 18-Oct. 20, 1970	279200
Office <u>Nov. 2 – Nov.</u> 6, 1970	279201
	270202
INSTRUMENT DATA Make, Model and Type <u>GM-102</u>	279203
Scale Constant or Sensitivity <u>+</u> 10 gammas	279204
Radiometric Background Count	279205
Number of Stations Within Claim Group -	1291 279206
Number of Readings Within Claim Group -	1291
Number of Miles of Line cut Within Claim Group-	12.22
Number of Samples Cohected Within Claim Group _	
<u>CREDITS REQUESTED</u> <u>20 DAYS</u> <u>40 DAYS</u> per claim <u>per claim</u>	Includes (Line cutting) TOTAL 16
Geological Survey	
Geophysical Survey	ShowSend in duplicate to:Check ✓FRED W. MATTHEWS
Geochemical Survey	SUPERVISOR-PROJECTS SECTION DEPARTMENT OF MINES & NORTHERN AFFAIRS WHITNEY BLOCK QUEEN'S PARK TORONTO, ONTARIO
SIGNED /	

Performance and coverage-credits do not apply to airborne surveys

## PERFORMANCE & COVERAGE CREDITS

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記録

ASSESSMENT WORK DETAILS	MINING CLAIMS TRAVERSED
Township or Area Muskego Township	
Type of Survey Electromagnetic Survey	279191
A separate form is required for each type of survey	270302
Chief Line Cutter	279192
or Contractor	279193
Party Chief D. G. Wan1, P.Eng.	279194
302 Bay Street, Toronto	279195
Address Dr. W. G. Wahl, P.Eng.	279193
Consultant	279196
302 Bay Street, Toronto	
. Address .	279197
	1 270100
<u>COVERING DATES</u>	279198
Line Cutting	279199
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FieldInstrument work, geological mapping, sampling etc.	279200
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	279201 g
	279202
INSTRUMENT DATA	
Make, Model and TypeRadam (VLF) Unit	279203
Scale Constant or Sensitivity 1% of dip and 1% field	
Or provide copy of instrument data from Manufacturer's brochure. strength.	279204
	279205
Radiometric Background Count	
Number of Stations Within Claim Group 1291	279206
1291	
Number of Readings Within Claim Group	
Number of Miles of Line cut Within Claim Group 12.22	
•	
Number of Samples Collected Within Claim Group	
CREDITS REQUESTED20 DAYS40 DAYSIncludesper claimper claimfer claim(Line cutting)	TOTAL16
Geological Survey	
Geophysical Survey	Send in duplicate to:
	FRED W. MATTHEWS
Geochemical Survey	SUPERVISOR-PROJECTS SECTION
Mulla Vetation	NORTHERN AFFAIRS
DATE WOUD // XX//	WHITNEY BLOCK OUEEN'S PARK
SIGNED CLACE OF OWNER	TORONTO, ONTARIO
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![](_page_15_Figure_1.jpeg)

![](_page_15_Figure_2.jpeg)

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![](_page_15_Figure_3.jpeg)

SCALE TO 200 FEET

![](_page_15_Picture_14.jpeg)

TOTAL FIELD VALUES IN GAMMAS VGWAHL LTD CTOBER 1970

![](_page_16_Picture_0.jpeg)

![](_page_16_Picture_1.jpeg)

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SCALE I INCH TO 200 FEET UNITED MACFIE MINES LIMITED CONTOUR INTERVAL : 100 - 500 8 WELL OCTOBER 1970 WGWAHL LTD.

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