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UNITED MACFIE MINES LTD. JUTTEN TOWNSHIP PROPLAT! STURGEON-SAVANT LAKES AREA RONKA EM 16 & MAGNETOMETER SURVEY.

#### INTRODUCTION

United Macfie Mines Ltd. owns a group of 15 mining claims located in Jutten Twonship, Patricia Mining Division, Ontario. During the summer of 1971, 12 of the 15 claims were surveyed magnetically and electromagnetically. The 3 unsurveyed claims are entirely covered with water.

The field work and data plotting were done by Roger Mercier and C.J.Miller of Mid-North Engineering Services Ltd. The data was interpreted by the writer.

## PROPERTY & LOCATION

The survey area consists of 12 mining claims numbered as follows:

Pa 280973 to Pa 280982 incl., and Pa 285917 to Pa 285918 .

The property is accessible from Highway 599 by boat on Savant Lake.

#### SURVEY METHODS & INSTRUMENT DATA

The surveys were carried out on a network of picket lines striking N35W at 400 ft. intervals. Survey readings were taken at 50 ft. intervals along each picket line. Altogether 6.2 miles of line were surveyed. Electromagnetic readings totalled 1,060, magnetic 630, for a grand total of 1.690 readings.

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The magnetic survey was made using a Sharpe PMF 3 magnetometer. The instrument measures the vertical component of the earth's magnetic field. Readings were plotted as gammas after correction for diurnal variations.

The electromagnetic survey was made using a Ronka EM 16 electromagnetic unit. This instrument utilizes the United States Very Low Frequency transmitting stations for its signal. The VLF stations set up a series of concentric horizontal magnetic fields about their vertical antennae and when their magnetic fields encounter conductive bodies in the ground, secondary magnetic fields are set up which radiate from these bodies. The EM 16 measures the vertical components of these secondary fields by means of two coils.

For this survey signals from the station located at Cutler, Maine, were used. Two readings, the In-Phase and the Quadrature were measured at each station.

#### SURVEY RESULTS & INTERPRETATION

#### Magnetic Survey

Over the claim area background magnetic intensities vary from aroun 1,300 to 1.700 gammas. Readings of over 2,000 gammas are common but very few high readings were observed. The strongest recorded reading is 23,200 gammas; the second strongest, 8,400 gammas; the third, 6,000 gammas. This suggests that rich concentrations of magnetite are scarce. Also there are no strong magnetic "ridges", a further suggestion of the lack or weakness of iron formations.

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There is a broad area of increased magnetism in the north central part of the property. The irregular shape of this area suggests a basic intrusive and since the highest magnetic reading on the property occurs here (it is an isolated reading) some magnetite is certainly present.

There are numerous small areas of above average magnetic intensity, none of which have any special distinctions. Electromagnetic survey

Several zones of electromagnetic conductivity were detected and the odd fact is that none have any consistant relationship with the zones of above normal magnetism.

Conductive zones are associated with the old trenchings at several places but the conductors tend to flank the trenches suggesting that the trenches never reached the main zone of weakness. Gold values are known to be associated with some of the trenches.

The electromagnetic readings indicate that a major conductor or conductors must strike roughly east-west under Savant Lake. This zone ectends onto land at the east end of the property and is associated with an irregular magnetic zone. This particular magnetic-electromagnetic relationship is the most consistent one on the property.

The electromagnetic conductors are far too numerous to drill test and they require appraisal by follow-up techniques such as geochemical prospecting, horizontal loop surveying, i and general prospecting.

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#### CONCLUSIONS & RECOMMENDATIONS

- Magnetic and electromagnetic surveys at 400 ft. line intervals and 50 ft. station intervals have been completed on the property and have resulted in locating numerous areas of above normal magnetism and electromagnetic conductivity.
- 2. A proposal to test certain of the survey results by 5 diamond drill holes of which the first 3 listed were given the top priority, has been submitted separately with their locations, bearings, dips and length. The total footage recommended was 1,250 feet.
- 3. Electromagnetic conductors located on the property are too numerous to drill-test. Therefore the better looking conductors should be classified with respect to each other by means of geochemical prospecting and horizontal loop surveying. This work should be done after the preliminary drilling when all conductors can be re-revaluated vis-a-vis the drill results.
- 4. There is every indication of a mafor zone of electromagnetic conductivity lying under Savant Lake on Claims Pa 280981 and Pa 280977, etc. This area should be surveyed from the ice.

My report is respectfully submitted.

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Willowdale, Ontario August 31, 1971 H. Grant Harper, F.G.A.C., P.Eng. Economic Geologist.

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ASSESSMENT WORK DETAILS	
Type of Survey Magnetometer	SPECIAL PROVISION CREDITS for
Adeparate form is required for each type of survey Township or Area Julian Tunny	PERFORMANCE & COVERAGE
C.D. Huston & Smil	MINING CLAIMS TRAVERSED
or Contractor - "A" Strand Life Off	List numerically
Address	DA 22(522)
Party Chief Name	PA 280913
Cardiff, Charlo	280977
Consultant d. Guant Harpey P. E.M.	2 20 975 1/2
314 Henden De hillordet	280976 -
Geological field mapping by	280977 1/2
Name	280 978 1/2
Address	281979
COVERING DATES	281980 -
Line Cutting $\frac{1-cb}{13} - \frac{13-10}{13+10} \frac{1971}{1971}$	280981 1/2
Field June 13 - 19 1971	2809821
Office J-17 22 - 27 Aug 26 - 29 1971	
INSTRUMENT DATA	PA 285417
Make, Model and Type <u>Sharpe</u> PMF 3	2 85918
Scale Constant or Sensitivity	RECEINED
Or provide copy of instrument data from Manufacturer's brochure.	SEP 2 3 1971
Radiometric Background Count	SECTION.
Number of Stations Within Claim Group630	Queas not covered = 1 3/4 claims
Number of Readings Within Claim Group630	to wedit for evided claims
Number of Miles of Line cut Within Claim Group 6.2	. 400 ÷ 11.75 + 34 days per 2.
Number of Samples Collected Within Claim Group	
	TOTAL CLAIMS /2
CREDITS REQUESTED 20 DAYS 40 DAYS Includes per claim per claim (Line cutting)	450LIA7,
Geological Survey	FRED N. M. TTHEAS
Geophysical Survey	BEDTHTMENT PROJECTS SECTION
Geochemical Survey	WHITNEY BUOCK H. C. HARPER
DATE Aug 31/71 SIGNED 12. (7, 1/21714.	- TOKONTO ONT RID
	Ounce or on the
Performance and coverage credits do not apply to a	irborne surveys

(United Machie) TWP UTTEN 70. 2012 01: M-1767 A separate form is required for each ARIO type of work to be THE MINING ACT REPORT OF WORK recorded. To the Recorder of ..... ......Mining Division 22041 INCOM Miner's Licence name 00 Machaile Office Address flice Address Ekctumaquetic Surry type of work do hereby report the performance of ...... not before reported to be applied on the following contiguous claims Claim No. Claim No. Days Dovs Claim No. Days **B0TH** oftocked Schedule: Sec ..... . . . . . . . (il day a S O . . . . . . . . . . . . . MONTHS IMPRISONMENT ........... ............ . . . . . . . ......... ..... ...... . . . . . . . . . . . . . . ...... \*\*\*\*\*\*\*\*\*\* ..... ..... . . . . . . . . . . . . . ..... . . . . . . . . . . . . . ล // All the work was performed on Mining Claim (s) ...... (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule) READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER. XIX XIX 80 For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment. For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of \$500. owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate. For Compressed Air or Other Power Driven or Mechanical Equipment 2 AND/OR CERTIFICATE Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment. For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording. With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate. For Geological and Geophysical Survey - The names and addresses of men employed as well as dates. Type of instrument used in the case of geophysical survey. Reports and maps in duplicate must be filed with the Minister within 60 days of recording. For Land Survey - the name and address of Ontario Land surveyor. The Required Information is as Follows: (Attach a list if this space is insufficient) See attacked scheduk Duplicate Reports & Pint Forms sent to F.W. Modelens as per special provisions Z STATEMENT FALSE Date Hug 31 /71 Signature of Recorded Holder or Agent The Mining Act Certificate Verifying Report of Work Arr, hillondst Oh (Post Office Address) PROFESS hereby certify: Srih in the report of Sterexed herend 1. That I have a personal and intimate knowledge of the facts s to, having performed the work or witnessed same during and/or after its I. G. HARPER w 2. That the annexed report is true H. C. HARPE Ě PATR/C 10). **E.C**.K.I ////\_\_\_\_19 Şiqnotur Шù 0 Cz. 01 SEP 24 197 10210110110212415B

	(United Mactic)
ASSESSMENT WORK DETAILS	SPECIAL PROVISION CREDITS
Type of urvey <u>Election Magintic</u> A separate form is required for each type of survey	for PERFORMANCE & COVERACE
Township or Area Jotten Tup	
Chief Line Cutter C. D. Huston & Smith	MINING CLAIMS TRAVERSED List numerically
or Contractor 5 "A" Street Waws, Out.	
Party Chief Roger Mercicr	PA 280 973
Cardiff Name	281974
// G / H/Address	7 20 97 5
Consultant / / / / / / / / / / / / / / / / / / /	22 77
314 Hendon fre, Uillandek, Uhl,	280 976
Geological field mapping by	280 977
Name .	280978
Address	280 979
COVERING DATES	280 980
Line Cutting Feb 13 to Mar 10 1971	280 981
Field J-n 13 - 19 1971	2 00 9 8 ) -
$ \begin{array}{c} \text{Instrument work, geological mapping, sampling etc.} \\ \text{Office}  J_{\nu}(7 22 - 24)  A_{\nu 1} 26 - 28 1971 \end{array} $	
INSTRUMENT DATA	PA 285917
Make Model and Type Ronka EM16	285918
Or provide copy of instrument data from Manufacturer's brochure.	
Radiometric Background Count	SEP 2 3 1971
Number of Stations Within Claim Group $530$	P.F.O.J.E.C.T.S
Number of Stations within Claim Group	ese chorv
Number of Readings Within Claim Group	same contrage as they
Number of Miles of Line cut Within Claim Group	allow 17 days se el eleget
Number of Samples Collected Within Claim Group	
	TOTAL CLAIMS
<u>CREDITS REQUESTED</u> <u>20 DAYS</u> <u>40 DAYS</u> Includes per claim per claim (Line cutting)	Contession
Geological Survey	FRED W. M. COTHEWS
Geophysical Survey	SUPERVISOR PLOTECTS SECTION
Geochemical Survey	WHITNEY ALOK
An altran Id. Giltern.	OUEENS PAR
DATE <u>FICE</u> SIGNED	

Performance and coverage credits do not apply to airborne surveys

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(in the case of	as performed on A f geological and/c	or geophysical survey	(s) where more t	han 18 claims are	involved attach a	schedule)
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ONTARIO	
f Natural esources	Room W 1617, Parliament Buildings Queen's Park, Toronto 182
	April 21, 1972
	Dear Sir: Re: Mining Claim Pa. 280975 et al, Jutten Township, File 2.611
	The Geophysical (Magnetometer and Electromagnetic) assessment work credits as listed with my Notice of Intent dated March 30, 1972 have been <u>approved</u> as of the date above. Please inform the recorded holder and so indicate on your records.
	Yours very truly,
	Adminic Fred W. Matthews Supervisor Projects Section
	OJ/mw cc: Mid-North Engineering Services Ltd.
	cc: H. G. Harper, P. Eng.
	cc: United Macfie Mines Ltd. cc: Resident Geologist Kenora, Ontario
	Telepriorie 416:965-6918 When replying andly quote this file number 2.611
	Mr. W. A. Buchan Mining Recorder P.O. Box 669 Sioux Lookout, Ontario Mr. W. A. Buchan Mining Recorder P.O. Box 669 Sioux Lookout, Ontario MR. W. A. Buchan PATRICIA DI E II V E D APR 26 1972 APR 26 1972
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PROJECTS SECTION

DEPARTMENT OF MILES AND NORTHER WERATHS

Filt 2.611

# TECHNICAL ASSE FMENT MORN CHEDITS

Township or AreaJutti	en Township
Type of Survey and number of Assessment Days Credits per claim	Mining Claims
EOPHYSICAL	
Magnetometer	Pa. 280975 to 82 inclusive 285917 - 18
Electromagnetic	
Radiometricdays	
EOLOGICALdays	
EOCHEMICAL	
Man days Ground X	
Special Provision X Airborne	
<ul> <li>NOTICE OF INTENT TO BE ISSUED</li> <li>X Credits have been reduced because of partial coverage of claims.</li> <li>Credits have been reduced because of corrections to work dates and figures of applicant.</li> <li>X NO CREDITS have been allowed for the following mining claims as they were not sufficiently covered by the survey:</li> </ul>	

The Mining Recorder may reduce the above credits in necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical – 80 Geological – 40; Geochemical – 40;

HARA CHERRY AND A CONTRACT OF



SEE ACCOMPANYING MAP(S) IDENTIFIED AS 52 J/08 NW-0017-CI #1 LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (X)

