

42A11SW0205 2.5449 TISDALE

REPORT

ON

A VLF-EM SURVEY AND

A GROUND MAGNETOMETER SURVEY

CLAIMS 594787, 594788

TISDALE TOWNSHIP

PORCUPINE MINING DIVISION

By: L.M. Wilson Esso Minerals Canada 120 Adelaide Street West Toronto, Ontario March, 1983

RECEIVED

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MINING LANDS SECTION

#### INTRODUCTION

#### Purpose of Survey

A VLF-EM and a ground magnetometer survey was carried out on claims 594787 and 594788, Tisdale Township, to assist in defining the bedrock stratigraphy in the area and to possibly outline potentially gold-bearing bedrock structures.

#### LOCATION AND ACCESS

Claims 594787, 594788 are located in the Tisdale Township, Porcupine Mining Division, and are situated approximately 5 kilometres northeast of the City of Timmins, northern Ontario. The Tisdale Township is centred at approximately 48°30'N and 81°16.5'W and is indexed under NTS 42 A/6, 11.

Claims 594787 and 594788 are accessible year-round by means of gravel roads off Highway 545 which runs north from Timmins to the Kidd Creek Mine site (see Location - Claim Map enclosed).

Regularly scheduled air service is provided by Air Canada to Timmins, Ontario.

#### **PROPERTY**

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The claims covered in this report are as follows (see enclosed Claim Map):

Claim Number	Description	Lot	Conc.
P. 594787	SE 1/4 S 1/2	7	6
P. 594788	NE 1/4 S 1/2	7	6

#### PREVIOUS WORK

#### Tisdale Claims 594787, 594788

1964-1965: Keevil Exploration carried out ground mag. and electromagnetic surveys on claim 594788. One diamond drill hole by Inco tested an electromagnetic anomaly on claim 594788 and intersected mafic volcanics with interflow graphitic horizons.

#### **GEOLOGY**

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#### Tisdale Claims 594787, 594788

The most recent mapping and compilation of Tisdale Township has been carried out by Ferguson, 1968 (Geological Report 58 and Map 2075). Based on this work, there are only a few isolated outcrops of basalt and serpentinite.

#### INTERPRETATION

#### VLF-EM Survey

Details concerning equipment, survey procedures and data presentation are contained in Appendix I to this report.

#### INTERPRETATION

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#### VLF-EM Survey Cont'd

The In-phase and Quadrature profiles for claims 594787-88 are presented on the enclosed map at a horizontal scale of 1:2500 and a vertical scale of 1 cm = 10%.

The two parallel VLF-EM conductors located on the south end of Lines 18E-20E are attributed to interference from the power line which parallels the 00 Baseline in this area.

The in-phase cross-overs coincident with negative quadrature inflections on Lines 18E and 19E over a small lake are probably caused by conductive overburden. This conductive feature is also evident on Line 20E.

The VLF-EM conductors outlined on the north end of the survey area form part of a broad "band" of conductors which extends beyond the immediate survey area covered in this report. Inco has drilled mafic volcanics with interflow graphitic horizons on Claim 594788. These conductors are interpreted to be due to graphite.

#### GROUND MAGNETOMETER SURVEY

Details concerning equipment, survey procedures and data presentation are contained in Appendix II to this report.

The magnetometer survey values are contoured and presented in plan form on the enclosed map.

The magnetic contour map shows considerable influence from the power line which runs NNE-SSW through the survey area. Since the survey lines are at a low angle to the power line, the magnetometer survey values may be in error up to distances of 100 to 150 metres on either side of the power line.

The broad magnetic high to the south on Lines 16E-19E may be due to serpentinites, which have been mapped to the south and west of this area.

#### CONCLUSIONS AND RECOMMENDATIONS

The magnetometer and VLF-EM surveys have not defined any probable gold-bearing targets on claims 594787. 594788.

No further geophysical work is recommended at this time.

Llogt M. Wilson

#### REFERENCE

1) Ferguson, S.A. 1968, Geology and Ore Deposits of Tisdale

Township; Ontario Department of Mines,

Geological Report 58 plus Map 2075.

#### VLF-EM METHOD

#### A. GENERAL PRINCIPLES

The VLF (Very Low Frequency) EM method employs an artificial source of EM waves - a VLF antenna, several hundred feet high, which acts essentially as a vertically grounded wire. A worldwide network of high-power VLF stations established for marine and air navigation act as the sources for the VLF-EM exploration method. At present, suitable transmitters for EM prospecting in North America are located at Cutler, Maine; Annapolis, Md. and Seattle, Washington. The transmitted frequencies (in the 20 KHz band) are very low frequency (VLF) only by comparison to broadcasting standards, but are in fact very high relative to any other geophysical EM system.

The VLF antenna current is vertical. The main magnetic field component of the primary (transmitted) signal is horizontal and theoretically tangent to circles about the antenna mast. Hence, a transmitting station should be chosen so that its direction is almost parallel to the geological strike in the survey area so as to produce a magnetic field perpendicular to the strike. If a conductor is located in the survey area, eddy currents are established producing a secondary field in the vicinity of the conductor. The VLF-EM-16 equipment measures the vertical components of this secondary field.

The fact that the source is at infinity means the primary field is essentially uniform over the survey area and hence all conductors are energized uniformly. This enables the detection of a broad variety of conductors, ranging from good conductors - graphite, massive sulphides, to poor conductors - muskeg, clay edges, shear zones, contacts ... At times this may be a disadvantage, however, since it may emphasize large-scale, relatively poor conductors at the expense of smaller concentrated bodies. In many environments, the anomalies of interest can be masked by the large amount of geological noise. The penetration of the system is limited by its high frequency in the presence of conductive overburden. However, if the subsurface is resistive, for example, little overburden, the penetration can be quite deep due to the transmitter being so far removed.

The VLF-EM method is also affected by topographic effects; spurious anomalies being picked up on top of conductive hills because the resultant field tends to follow the slope. The distinction between anomaly conductivity and depth is also often difficult. Another major drawback is that it is not always possible to use a transmitting station which gives a primary horizontal field striking at right angles to the geologic strikes in the survey area. In this case, two VLF transmitters, at approx. right angles to each other, should be used to provide better coverage.

#### B. EQUIPMENT

The Geonics EM-16 measures the tilt angle and quadrature components of the resultant (secondary) EM field. The instrument consists of two coils or antennas with axes perpendicular to each other and linked to appropriate electronics.

#### C. SURVEY PROCEDURE

Readings were taken at 25 meter intervals along lines generally spaced 100 meters apart.using Cutler, Maine as the transmitting station.

The survey technique is listed below:

- I. The most probably strike of interest is decided and the transmitter station more closely along strike, with a detectable signal, is chosen.
- 2. The proper receiver channel is selected to receive the transmitted signal. This may involve plugging in a circuit module.
- 3. Direction to transmitter station is determined by rotating the axis of the longer receiver coil in a horizontal plane. The transmitter is located in the direction of minimum field strength, i.e., minimum noise from the speaker. With this orientation the axis of the long coil should be pointing more or less in the direction of the transmitter station.
- 4. Receiver is then oriented with the long coil vertical and axis of the small coil at the bottom, the reference coil, oriented perpendicular to the transmitter direction.
- 5. Tilt angle response is measured by rotating the instrument about a horizontal line which points toward the transmitter, until minimum noise is heard.
- 6. Quadrature response is measured by rotating the small dial until the best minimum is heard.
- 7. Facing direction and local terrain is recorded together with the tilt angle and out of phase measurements.

A complete specification for a V.L.F. reading includes:

- tilt angle response
- quadrature response
- 3. facing direction
- 4. line azimuth
- 5. transmitter and frequency
- 6. terrain

#### C.: SURVEY PROCEDURE (CONT'D)

The direction the operator is facing during measurement is very important with the Geonics EM 16 instrument because tilt angles above horizontal are positive and those below are negative. Other conventions exist for recording the tilt angle but only the facing convention is discussed here.

The tilt angle and quadrature responses for the survey reported herein have been plotted at a horizontal scale of 1:2500 and a vertical scale of 1 cm = 10%. All readings were taken facing north along the survey line.

#### APPENDIX II

#### Magnetometer Survey

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A Geometrics G-816 portable proton precession magnetometer was used. This instrument digitally displays the total magnetic field strength by measuring the frequency at which protons (hydrogen nuclei) precess about the prevalent earth's magnetic field. The precession frequency is directly proportional to the total magnetic field strength at the point of measurement. Sensitivities of  $\frac{+}{-}$  1.0 gamma can be achieved with this magnetometer.

Magnetometer readings were taken at 25 metre intervals along lines generally spaced 100 metres apart. The data is presented in plan form at a horizontal scale of 1:2500 and contour interval of 50-100 gammas.

The variations of the magnetic field (diurnal) were obtained by establishing a base station within each of the claim groups 1-6 and tying these to a main base. Further base stations were then established along grid base/tie lines within each of the claim groups. These base line/tie line station values were then fixed and any time varitions of the magnetic field along the traverse lines were linearly distributed by tying in to one or more of the base stations at the end of each traverse. These linearly distributed variations in the traverse stations values were then removed from the field data.

#### APPENDIX III

1. D. LaForest
Hollinger-Argus Limited
Timmins, Ontario

Operator

2. G. Tremblay
Hollinger-Argus Limited
Timmins, Ontario

Operator

3. L.M. Wilson
Esso Minerals Canada
120 Adelaide Street West
Toronto, Ontario

Geophysicist-author

#### APPENDIX IV

#### Qualifications of Author

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Lloyd M. Wilson attended Memorial University of Newfoundland between 1966 and 1971, graduating with a B.A. (Honours) degree in Mathematics. From May, 1971 to October, 1973, Mr. Wilson worked in oil and gas exploration for Amoco Canada Petroleum Co. Limited in Calgary, Alberta, specializing in potential field (i.e. gravity, magnetics) seismic methods. Since then he has had eight years of experience as a mineral exploration geophysicist - three with Geoterrex Limited in Ottawa and five with Esso Minerals Canada in For the past three years he has been in charge of project geophysical field activities and training planning, personnel for Esso Minerals Canada. He is a member of the Society of Prospector's and Developer's the Geophysicists, Exploration Association, CIMM (Toronto Branch) and KEGS.



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#### Report of Work

(Geophysical, Geological, Geochemical and Expenditures)





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N.B. Notice of Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

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Name and Postal Address of Person Certifying

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# OFFICE USE ONLY



#### **Ministry of Natural Resources**

## GEOPHYSICAL — GEOLOGICAL — GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

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MINING CLAIMS TRAVERSED
List numerically
P 594787 (prefix) (number)
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#### **GEOPHYSICAL TECHNICAL DATA**

GROUND SURVEYS - If more than one survey, specify data for each type of survey

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Number of	f Stations 170 (for VLF) 183 (for m	nag) Number of Readi	ngs 165 (VLF) 195 (Mag
Station int	terval 25 metres	Line spacing <u>10</u>	) metres
Profile sca	le <u>1 cm = 20% (VLF)</u>		
Contour in	nterval 100 gammas for background n	nagnetics - see plan	
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Base Sta	ation check-in interval (hours) 1-2 hour	s	
Base Sta	ation location and value Base station o	arried from previous s	rvey using 00 BL/20 E
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Instrum	ent <u>Geonics EM-16</u>		
Coil cor	nfiguration vertical and horizontal		
Coil sep	paration <u>Infinity</u>		
Accurac	cy <u>± 1/2 degree in-phase</u> ± 1%		
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INDUCED POLARIZATION



## SELF POTENTIAL \_\_\_\_\_ Range \_\_\_\_\_ Instrument\_\_\_\_ Survey Method \_\_\_\_\_ Corrections made\_\_\_\_\_ RADIOMETRIC Instrument Values measured \_\_\_\_\_ Energy windows (levels) Height of instrument \_\_\_\_\_\_Background Count \_\_\_\_\_ Size of detector\_\_\_\_\_ Overburden\_\_\_\_ (type, depth - include outcrop map) OTHERS (SEISMIC, DRILL WELL LOGGING ETC.) Type of survey\_\_\_\_\_ Instrument \_\_\_\_\_ Accuracy\_\_\_\_\_ Parameters measured\_\_\_\_\_ Additional information (for understanding results) AIRBORNE SURVEYS Type of survey(s) Instrument(s) (specify for each type of survey) Accuracy\_\_\_\_\_ (specify for each type of survey) Aircraft used\_\_\_\_\_ Sensor altitude\_\_\_\_\_ Navigation and flight path recovery method \_\_\_\_\_ Aircraft altitude\_\_\_\_\_Line Spacing\_\_\_\_\_ Miles flown over total area\_\_\_\_\_Over claims only\_\_\_\_\_

#### GEOCHEMICAL SURVEY - PROCEDURE RECORD



Numbers of claims from which samples taken		<del></del>				
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Type of Sample(Nature of Material)	Values expressed in:	per cent				
Average Sample Weight		p. p. m. p. p. b.				
Method of Collection						
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Soil Horizon Sampled	Others					
Horizon Development	Field Analysis (		tests)			
Sample Depth	Extraction Method					
Terrain	Analytical Method					
	Reagents Used					
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Geotechnical Report **Approval** 

2.5449 May 24/83

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1983 03 29 2.5449

Mr. William L. Good Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 594787-88 in the Township of Tisdale.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6045 Queen's Park Toronto, Ontario M7A 1W3 Phone:416/965-1380

A. Barr: mc

cc: Hollinger Argus Limited Timmins, Ontario

cc: Lloyd M. Wilson Pickering, Ontario



S. B. MACEACHERN
Regional Exploration Manager

120 ADELAIDE STREET WEST, P.O. BOX 4029, STATION "A" TORONTO, ONTARIO M5W 1K3

March 22, 1983

File: 16.63.A04

Your file: 2.4543

Mr. E.F. Anderson
Director
Lands Administration Branch
Ministry of Natural Resources
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

RECEIVED

MAK 25 1983

MINING LANDS SECTION

Attention: Mr. F.W. Matthews - Mining Lands

Dear Sir:

Please find enclosed a covering letter from Hollinger Argus Limited and two copies of a report on a ground magnetometer and VLF-EM survey covering Claims 594787 and 594788 in Tisdale Township. As a result of a notice of intent concerning these claims they are currently under an extension until May 31, 1983. Approval of the work submitted here should provide 40 days of assessment credits for the two claims. These credits along with the 20 days already approved for the claims should maintain these claims in good standing for two years from their recording date.

Yours truly,

L.J. Ferguson

Geologist, Esso Minerals

LJF:mao

Enclosure

c.c. J. Pirie

c.c. S. Korman

c.c. D. Alexander - Hollinger Argus Timmins

TELEPHONE: (705) 264-1313

March 9, 1983.

Mr. E.F. Anderson,
Director, Lands Administration Branch,
Ministry of Natural Resources,
Whitney Block, Room 6450,
Queen's Park,
TORONTO, Ontario M7A 1W3

Dear Sir:

Attached are copies of a notice of intent and a technical assessment work credit form for two claims in Tisdale Township (Claim Nos. 594787, 594788). These data are forwarded to facilitate comprehension of the reports forthcoming from Esso Minerals Canada.

The two claims in contention are partly covered by a small lake and crossed by a hydro line, such that the survey was not completed in the fall of 1981. Since Esso Minerals Canada did the original ground work and reports, they have consented to follow through with same on this survey.

An extension of time was applied for on February 25, 1983 - approved March 1, 1983.

We have been advised to file for 20 days credit on these two claims, thereby raising the assessment allotment to 40 days per claim for the VLF survey.

Since a similar circumstance may arise for the magnetic survey filed in December 1982, those data are also included at this time - we most certainly hope to avoid a repeat of a notice of intent et. al. if possible.

I trust that these data are lucid and comprehensive, and I thank you for your consideration.

Sincerely,

HOLLINGER ARGUS LIMITED

Date R. Alexander,
Project Geologist.

Encls.



# The Mining and Lands Commissioner In the matter of The Mining Act

AND IN THE MATTER OF

Mining Claims P-594787 and 594788, situate in the Township of Tisdale, in the Porcupine Mining Division, hereinafter referred to as "the Mining Claims";

AND IN THE MATTER OF an application in respect of the Mining Claims under section 86 of the Mining Act by or on behalf of the recorded holder.

OPON THE APPLICATION of or on behalf of the holder of the Mining Claims for an extension of time in which to comply with the requirements of the Mining Act and upon reading the material filed and hearing the allegations made;

I ORDER that upon filing the order herein and paying the fee therefor, the time for performance of deficiency of work on the Mining Claims and filing due proof thereof, be and the same is hereby extended until and including the 31st day of May, 1983, subject, however, to the right of any adverse interest.

DATED this 1st day of March, 1983.

MINING AND LANDS COMMISSIONER.

"Notice of Intent dated February 17, 1983".



Notice of Intent for Technical Reports



1983 02 17

2.4543

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



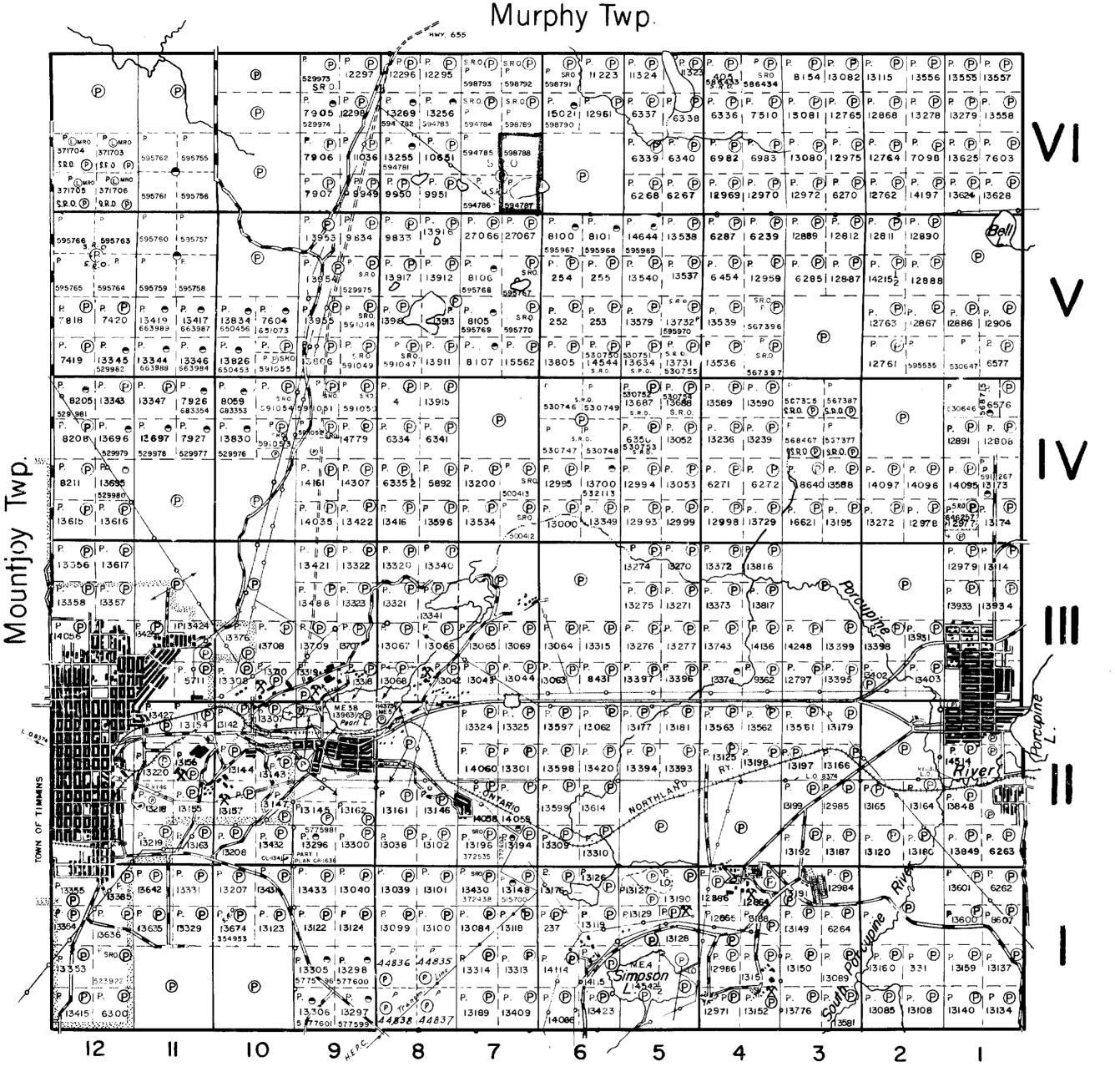
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# **Technical Assessment Work Credits**

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Recorded Holder HOLLINGER ARGUS LIMITE	ED .		
Township or Area TISDALE			
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed		
Geophysical	D F04701 4- 06 4-01-04-0		
Electromagnetic days	P 594781 to 86 inclusive 594789 to 93 inclusive		が基から。 (数) (で) (で)
Magnetometer days	595767 to 70 inclusive 595967 to 69 inclusive		
Radiometric days			
Induced polarization days			· · .
Section 86 (18) days			
Geological days			* * * * * * * * * * * * * * * * * * *
Geochemicaldays			:
Man days ☐ Airborne ☐			
Special provision 🔀 Ground 🔀			- -
Credits have been reduced because of partial coverage of claims.		•	
Credits have been reduced because of corrections	i		
to work dates and figures of applicant.	i		
Special credits under section 86 (15a) for the following r	mining claims		1 1.41
			A
20 days P 594787-88			•
			· **
No credits have been allowed for the following mining cla			
not sufficiently covered by the survey	Insufficient technical data filed		*
			o Pilipa O and pi



Deloro Twp.

THE TOWNSHIP
OF

# TISDALE

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: I-INCH=40 CHAINS

### **LEGEND**

C.S.

**(**L)

Loc.

PATENTED LAND
CROWN LAND SALE
LEASES
LOCATED LAND
LICENSE OF OCCUPATION
MINING RIGHTS ONLY
SURFACE RIGHTS ONLY
ROADS
IMPROVED ROADS
KINGS HIGHWAYS
RAILWAYS
POWER LINES
MARSH OR MUSKEG
MINES
GEODECTIC STATION

SURFACE RIGHTS ONLY PATENTED

Whitney

## **NOTES**

This township lies within the Municipality of CITY of TIMMINS.

400' Surface rights reservation around all lakes & rivers.

Town boundary of TIMMINS shown thus:

NOW WITHIN THE CITY OF TIMMINS.

25449



PLAN NO.- M. 315

CNTARIO

MINISTRY OF NATURAL RESOURCES

SURVEIU AND MAPPING BRAINCH

200

