#### REPORT ON

#### MAGNETOMETER AND GRADIOMETER

SURVEYS

ON CLAIM

SSN <81686

McMIRRAY TOWNSHIP

FOR

GOLDUN AGE - DUNRAINE

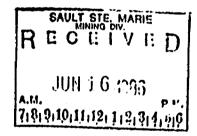
JOINT VENTURE

WAWA, ONTARIO

BY

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MINING LANDS SECTION

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PRECAMBRIAN EXPLORATION & MINING SERVICES LTD.

JUNE 12/86

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### INTRODUCTION:

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A combined total Field Magnetometer and Gradiometer Surveys were recently conducted on Claim SSM 581686 in McMurray Township in the Wawa area of the Sault Ste. Marie Mining Division.

The instrument used was the "Scintrex IGS-2" [Intigrated Geophysical System], serial number 507254.

A small grid totaling 940 meters was cut and chained over this wedge shaped claim and stations at 10 meter intervals were established on the cross lines. (See enclosed sketches).

# LOCATION AND ACCESS:

Claim SSM 581686 is situated in the central section of McMurray Township immediately east of Ward Lake, which is approximately 4 kilometers south of the Town of Wawa. The number 3 post of this 2.98 acre faction can be found 200 meters west of the number 1 shaft of the Parkhill Gold Mine.

#### MAGNETOMETER SURVEY:

The Magnetometer Survey is designed to measure the magnetic field of the earth as influenced by rock formations having different magnetic properties and is measured in gammas.

Eighty four [84] Survey Stations were established and measurements of the earth's total magnetic field were taken. These values were manually corrected for diurnal shift and a base value of 55,000 gammas was removed from each reading before being plotted.

Due to the small area covered by the Survey, interpretation of the results is difficult. However, certain magnetic features are obvious and are expressed as areas of relatively nigh total field values.

As illustrated in the geological report on this claim dated May 31/82 this claim covers an area of complex geology.

The Parkhill Fault Zone, which is intruded by diabase to form dykes, strikes N-NW and can be found near the number 3 post of the claim. This area is represented by two narrow N-NW trending subtle magnetic features.

The North Section of the claim is predominantly underlain by a Felsic intrusion (granodicite) with diabase and large xenoliths of the surronding metavolcanic sequences "Floating" in it. This area represents the contact breccia between the more massive granodicrite stock to the North and the N-E striking metavolcanic and metasediments on it's Southern Flank.

#### GRADIOMETER SURVEY:

A Gradiometer Survey measures the vertical total Field Magnetic Gradient.

The spacing between two sensors is fixed, in this instance at one (1) meter. A reading of the lower sensor followed by a reading of the upper sensor provides a difference of magnetic intensity which is then divided by the distance between the sensors. The result is the Magnetic Gradient.

Due to the relatively thin cover of overburden, the main function of the gradient survey is to provide information which would assist in interpreting any complex anomalies detected during the survey.

A total of eighty four (84) stations were established.

Vertical gradient measurements were taken at each station and then plotted on an appropriate sketch.

As with the total magnetic field survey, the small amount of information obtained from the data covering this irregular claim is inconclusive. Broadly speaking however, certain geologic features such as diabase dykes and altered xenoliths have high magnetic gradients.

#### CONCLUSIONS:

The Magnetometer and Gradiometer Surveys recently completed on this Claim illustrate the complex geological features that are found within it. Due to the lack of a reference base, it is recommended that a Magnetometer and Gradiometer Survey be conducted over the entire claim block held by Dunraine Mines Ltd. and Goldun Age Resources in McMurray Township.

Respectfully Submitted,

Daniel J. Gignac

June 12th, 1986

PRECAMBRIAN EXPLORATION & MINING SERVICES LTD.

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# CERTIFICATE OF QUALIFICATION

I Daniel J. Gignac of 171 Niven Street, Haileybury, Ontario, certify that:

- 1. I am an Explorationist, and President of Precambrian Exploration & Mining Services Ltd.
- 2. I am a graduate of the University of Waterloo with a Bachelor of Environmental Studies, Geology Minor, 1980.
- 3. I have been employed as a staff and freelance Explorationist since 1980.
- 4. I have not received directly or indirectly, nor do I expect to receive any interest, direct or indirect in the Property described herein.
- 5. This Report has been prepared based upon field and office work carried out from May 30th to June 12th 1986.
- 6. The information contained in the Report is accurate and correct.

Daniel J. Gignac

171 Niven Street
P. O. Box 210
Haileybury, Ontario
POJ 1KO

# 900

# GICAL – GEOCHEMICAL TA 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.

Type of Survey(s) Magnetometer, Gradiometer  Township or Area Mc Murray Tp - Wawa Area.  Claim Holder(s) - Duncaine Mines Ltd.	MINING CLAIMS TRAVERSED List numerically
Survey Company <u>Precombrion</u> Exploration + Mining Ser.  Author of Report Daniel J. Gignus C  Address of Author 171 Niven st. Harleybury Out.	SSVA 5'8166 (number)
Covering Dates of Survey May 30 to June 17/5-6  (linecutting to office)  Total Miles of Line Cut 0.94 Km.	R
SPECIAL PROVISIONS CREDITS REQUESTED Geophysical  -Electromagnetic ENTER 40 days (includes	MINING CANOS SECTION
line cutting) for first  survey.  ENTER 20 days for each additional survey using  -Magnetometer	- labrane verres estat en
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)  Magnetometer Electromagnetic Radiometric (enter days per claim)	
DATE: SIGNATURE: 1 1/8 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6	
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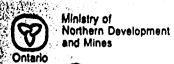
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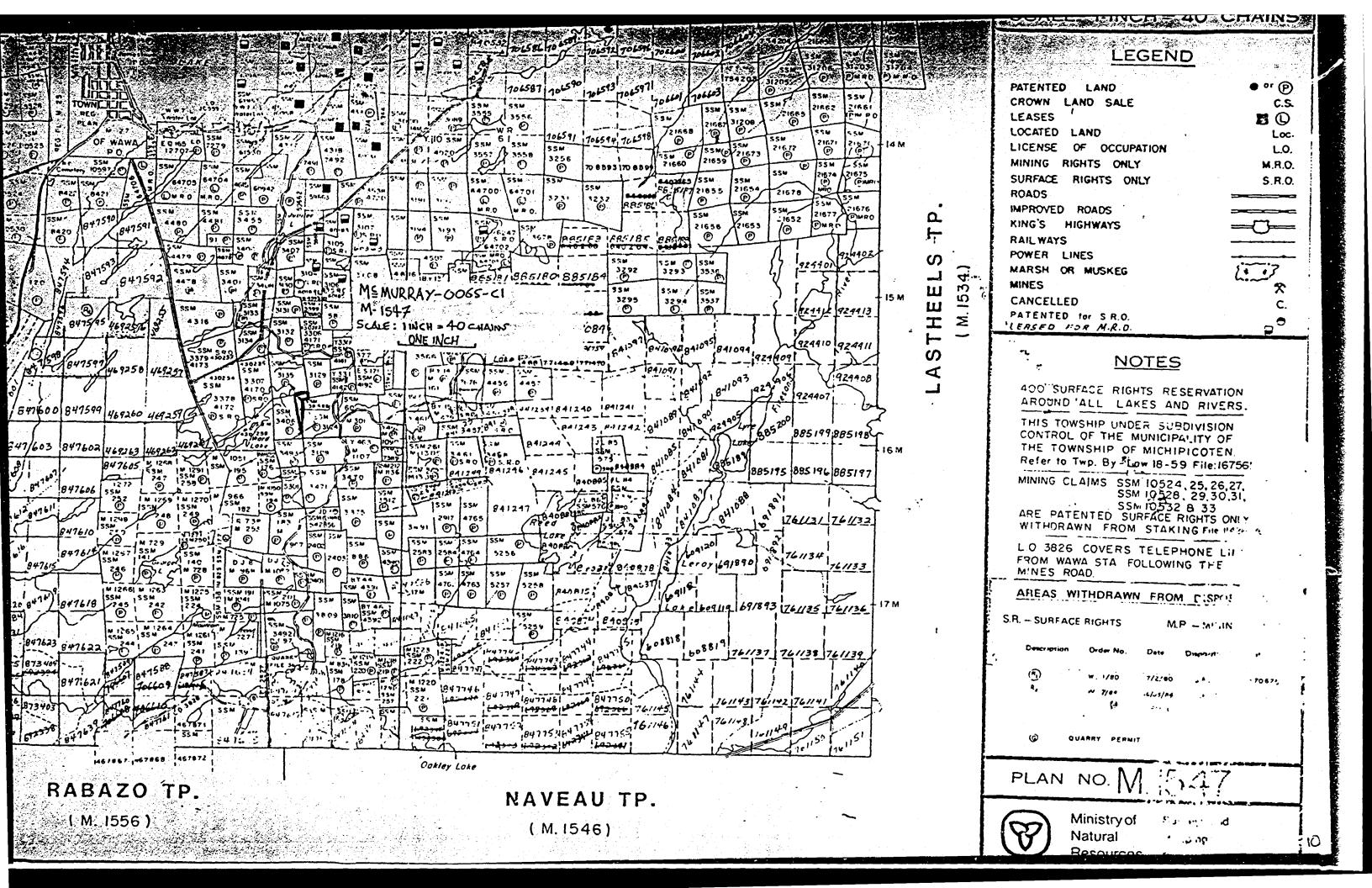


# Technical Assessment Work Credits

			File
			2.9259
Date		Mining A	corder's Report of
September	19,1986	1	75-86

Recorded Holder	
Township or Area JOHN S. GRA	TNA
McMURRAY IO	NNSHIP
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
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Electromagnetic days	
Magnetometer15days	SSM 581686
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SAME TIME AS THE MAGN	NETOMETER SURVEY.
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The Mining Recorder may reduce the above credits if 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; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



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October 17, 1986

Your File: 75-86 Our File: 2.9259

Mining Recorder
Ministry of Northern Development and Mines
875 Queen Street East
Box 669
Sault Ste. Marie, Ontario
P6A 2B3

# Dear Madam:

RE: Notice of Intent dated September 19, 1986 Geophysical (Magnetometer) Survey on Mining Claim SSM 583686 in McMurray Township

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

J.C. Smith, Supervisor Mining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416) 965-4888 SH/mc

cc: John S. Grant
Suite 2500
390 Bay Street
Toronto, Ontario
M5H 2W7

Encl.

Daniel J. Gignac 171 Niven Street Haileybury, Ontario POJ 1KO

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario
Resident Geologist
Sault Ste. Marie, Ontario