



41009SE0054 2.8935 YEO

010

GEOLOGICAL SURVEY REPORT  
YEO TOWNSHIP CLAIMS  
B & B MINING (CANADA) LIMITED

**RECEIVED**

MAR - 3 1986

**MINING LANDS SECTION**

TORONTO, ONTARIO  
February 26, 1986

Prepared by D.B. Graham, B.Sc.  
Exploration Geologist

*D.B. Graham*



410095E0054 2.8935 YEO

010C

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
LOCATION AND ACCESS	1
CLAIMS	1
HISTORY OF EXPLORATION	2
PROCEDURE	3
GEOLOGY	4
LOCATION MAP	Figure 1
GEOLOGY MAP	Appended

## INTRODUCTION

On October 25, 1985 the author mobilized to the Gogama area to commence a geological mapping program for B & B Mining (Canada) Limited of 505-340 West Cordova Street, Vancouver, B.C. The mapping was carried out between October 27, 1985 and November 7, 1985.

## LOCATION AND ACCESS

The map area is located 29 km WSW of Gogama, Ontario. This town is 186 km north of Sudbury, Ontario via the King's Highway 144 (see Figure 1).

Access is gained by travelling 37 km south from Gogama via Highway 144 to the E.B. Eddy road. From this point, travel west along the Eddy road for approximately 17 km to the Yeo Road. This north trending forest access road may be followed to Canoe Lake which lies within the map area.

The larger lakes within the vicinity of the map area are adequate for servicing by float plane from Gogama, Ontario.

## CLAIMS

The map area includes the following claims:

P783899 - P783913 inclusive

P783922 - P783936 inclusive

## HISTORY OF EXPLORATION

There is no formal record of exploration and/or development on the property area mapped. Local prospectors speak of trenching to the east and northeast of Canoe Lake. Upon examination of this area, these rumours were not verifiable due to timber cutting and scarification. Further to the south in vicinities east and west of the south bay of Canoe Lake, the author observed numerous pits and trenches of an undetermined age (most likely 20 years or older) which indicate a history of prospecting.

The map area is within the Swayze syncline which has been the focus of a number of airborne surveys. In early 1980, the contract firm of Les Relevés Géophysiques Inc. of Quebec flew a REXHEM-1 survey which included electromagnetics (E.M.-33), magnetics (Geometric's Proton Magnetometer) and V.L.F. (Hertz Industries TOTEM-1A). In 1982 the Ontario Geological Survey flew a Questor system airborne survey at a regional scale. The results of the two surveys confirm the presence of a number of geophysical anomalies.

An extensive H.E.M. anomaly passes through the north part of the claims in an east-west direction. This conductor has an associated magnetic "high". Another magnetic "high" is observed trending east-west and passing through the south bay of Canoe Lake. A coincident electromagnetic response is weaker and less continuous than the one to the north.

Neils Anderson reported to have uncovered a sulphide zone containing abundant sphalerite and chalcopyrite on the southwest bay of Canoe Lake.

#### PROCEDURE

An east-west baseline was cut with a zero point established at the location of post #1 of claim number P783909. This cut picket line extends 6720 feet west and to a point approximately 8700 feet east of the zero point. The west extent of the baseline meets the west boundary of the property. Chaining of the baseline was accomplished between 2400 feet east and 6400 feet west of zero. North-south flagged lines were established at an 800-foot spacing along the baseline. Stations were marked every 100 feet on the baseline and on all cross lines. Control was maintained by compass, hip chain, and topographic maps.

A geological survey was carried out using the cut and flagged grid for best control. Traverses were run along the north-south flagged lines. Topographic features such as forest cover, rivers, lakes, and swamp were recorded. All claim posts and claim lines were noted where encountered. Major geological features and mineralization of economic importance were recorded as set out in the Requirements for Submitting Geophysical Geological Geochemical Survey Reports, published by the Ministry of Natural Resources.

## GEOLOGY

The main portion of the map area is underlain by a series of interbedded, pyroclastic, metavolcanic rocks of intermediate composition. These pyroclastics vary from fine- to coarse-grained tuffs, lapilli tuffs, and coarse bombs and blocks. The tuff sequences are frequently interbedded and numerous chert and cherty sedimentary bands were noted.

The fragment size ranges from less than .05 inches to greater than 6.0 inches. The ash tuff appears as a fine-grained aphanitic unit ranging to a fine-grained phaneritic unit with angular feldspar fragments in an aphanitic groundmass.

The lapilli tuff units host numerous lens-shaped fragments up to 2 inches long. As a general rule they are stretched in a length-to-width ratio of greater than 4:1. The majority of the lapilli are felsic in composition and exhibit a white, green or rose colour.

Bombs and blocks greater than 2 inches in size are often a similar colour, shape, and composition as the lapilli described above.

The regional strike of the map area is east-southeast. Dips are near vertical, steeply north and steeply south. Where folding was observed, plunge is to the east.

A strongly magnetic, fine- to medium-grained diabase cuts the volcanic pile in an east to southeast direction roughly 1200 feet north of the baseline. This intrusive unit then turns

southwest in the vicinity of the east shore of Canoe Lake and is mapped as far as the swampy area on the west boundary roughly 1500 feet south of the baseline. The average thickness of this unit is estimated at 400 feet.

A sulphide rich iron formation consisting of magnetite rich tuffs, pelitic sediments and chert is observed from the west boundary at a point 800 feet north of the baseline to 34+30W on the baseline. Minor chalcopyrite, galena, malachite and up to 35% pyrite are observed in this unit.

Mineralization of economic importance consists of pyrite, chalcopyrite, magnetite, malachite and galena. All were observed in rare to minor amounts, with the exceptions being magnetite and pyrite which are more abundant in the iron formation. The most abundant of these minerals is pyrite which varies up to 5% of the country rock. Magnetite in the iron formation varies from 5% disseminated crystals to massive amounts.

Metamorphic grade is greenschist facies. Alteration is in the form of chloritization, carbonitization, silicification, and sericitization, all in minor to moderate amounts.

*Paul G. ...*

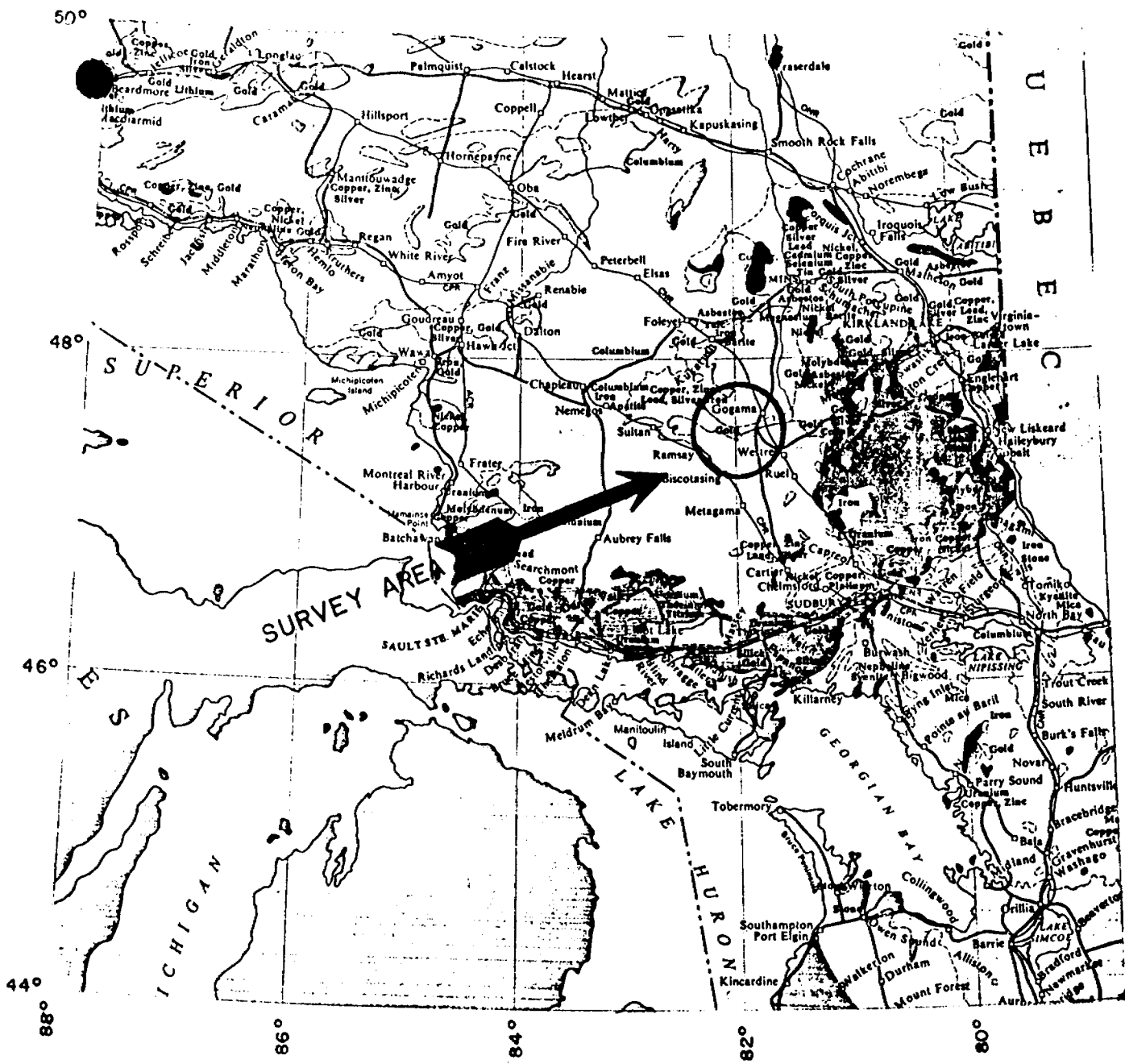
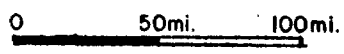


FIGURE I  
 LOCATION MAP  
 CENTRAL ONTARIO



after O.G.S. Map 2389





41009SE0054 2.8935 YEO

900

Mining Lands Section

File No 28935

Control Sheet

TYPE OF SURVEY     GEOPHYSICAL  
                            GEOLOGICAL  
                            GEOCHEMICAL  
                            EXPENDITURE

MINING LANDS COMMENTS:

---

---

---

---

---

---

---

---

---

---

---

---

J. Hurst

Signature of Assessor

April 2/86

Date

*h.S.  
lpx*

May 2, 1986

Your File: 90/86  
Our File: 2.8935

Mining Recorder  
Ministry of Northern Development and Mines  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

RE: Notice of Intent dated April 15, 1986  
Geological Survey on Mining Claims  
P 783899, et al, in Yeo 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: B&B Mining (Canada) Limited  
Suite 505  
340 West Cordova Street  
Vancouver, B.C.  
V6B 1E5

Resident Geologist  
Timmins, Ontario

David B. Graham  
54 St. Leonards Avenue  
Toronto, Ontario  
M9N 1K3

Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario

Encl.



Recorded Holder	B & B MINING (CANADA) LIMITED
Township or Area	YEO TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>34</u> days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 783899 to 913 inclusive 783922 to 936 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

The Mining Recorder may reduce the above geophysicals 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; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ontario

*April 30/86*

Ministry of  
Northern Development  
and Mines

April 15, 1986

Your File: 90-86  
Our File: 2.8935

Mining Recorder  
Ministry of Northern Development and Mines  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at (416) 965-4888.

Yours sincerely,

J.C. Smith, Supervisor  
Mining Lands Section

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

*S* SH/mc

Encl.

cc: B&B Mining (Canada) Limited  
Suite 505  
340 West Cordova Street  
Vancouver, B.C.  
V6B 1E5

David B. Graham  
54 St. Leonards Avenue  
Toronto, Ontario  
M9N 1K3

Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario



Ontario

Ministry of  
Northern Development  
and Mines

Notice of Intent  
for Technical Reports

April 15, 1986

2.8935/90-86

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 the 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 directly to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

Mining Act

Type of Survey(s) Geological Township or Area YEO Twp.  
 Claim Holder(s) B+B. Mining (Canada) Limited Prospector's Licence No. T-3615  
 Address 505-340 West Cordova St. Vancouver, B.C.  
 Survey Company R. Bruce Graham & Associates Ltd. Date of Survey (from & to) 27 10 85 to 7 11 85 Total Miles of line Cut  
 Name and Address of Author (of Geo-Technical report) DAVID B. GRAHAM 54 ST. LEONARDS AVE, TORONTO, ONT. M4N 1K3

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	<u>40</u>
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	783899		P	783929	
	783900			783930	
	783901			783931	
	783902			783932	
	783903			783933	
	783904			783934	
	783905			783935	
	783906			783936	
	783907				
	783908				
	783909				
	783910				
	783911				
	783912				
	783913				
	783922				
	783923				
	783924				
	783925				
	783926				
	783927				
	783928				

Expenditures (excludes power transmission)

Type of Work Performed DETECTIVE  
 Performed on (Date) MAR 24 1986

Calculation of Expenditure Days Credits

Total Expenditures \$  ÷ 15 = Total Days Credits

Instructions  
 Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **30**

For Office Use Only

Total Days Cr. Recorded 11200 Date Recorded March 24/86 Mining Registrar Stanley  
 Date Approved as Recorded See Reversed statement Branch Director

Date March 17/86 Recorded Holder or Agent (Signature) David Graham

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying DAVID B. GRAHAM - 54 ST. LEONARDS AVE. TORONTO ONTARIO, M4N 1K3  
 Date Certified March 17/86 Certified by (Signature) David Graham

Row: 90

March 7, 1986

File: 2.8935

Mining Recorder  
Ministry of Northern Development and Mines  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

We have received reports and maps on March 3, 1986, for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 783899, et al, in Yeo Township.

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 your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

J.C. Smith, Supervisor  
Mining Lands Section

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

Telephone: (416) 965-4888

AB/mc

cc: David B. Graham  
54 St. Leonards Avenue  
Toronto, Ontario  
M4N 1K3

B & B Mining (Canada) Limited  
Suite 505  
340 West Cordova Street  
Vancouver, B.C.  
V6B 1E5



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) Geological  
Township or Area Yeo Township  
Claim Holder(s) B & B Mining (Canada) Limited  
505-340 W. Cordova St., Vancouver, B.C.  
Survey Company B. Bruce Graham & Assoc.  
Author of Report David B. Graham  
Address of Author 54 ST. LEONARDS AVE, TORONTO  
Covering Dates of Survey Oct. 25, 1985 - Nov. 7, 1985  
(linecutting to office)  
Total Miles of Line Cut \_\_\_\_\_

**MINING CLAIMS TRAVERSED**  
List numerically

P	783899
(prefix)	(number)
P	783900
P	783901
P	783902
P	783903
P	783904
P	783905
P	783906
P	783907
P	783908
P	783909
P	783910
P	783911
P	783912
P	783913
P	783922
P	783923
P	783924
P	783925
P	783926
P	783927
P	783928

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	<u>DAYS</u> <u>per claim</u>
ENTER 40 days (includes line cutting) for first survey.	Geophysical _____
ENTER 20 days for each additional survey using same grid.	-Electromagnetic _____
	-Magnetometer _____
	-Radiometric _____
	-Other _____
	Geological <u>40</u>
	Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Feb 26, 1986 SIGNATURE: David Graham  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications This file

<u>Previous Surveys</u>			
File No.	Type	Date	Claim Holder

TOTAL CLAIMS 22 (this page)  
TOTAL CLAIMS = 30

OFFICE USE ONLY



**GEOPHYSICAL TECHNICAL DATA**

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

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_  
Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_  
Profile scale \_\_\_\_\_  
Contour interval \_\_\_\_\_

**MAGNETIC**

Instrument \_\_\_\_\_  
Accuracy – Scale constant \_\_\_\_\_  
Diurnal correction method \_\_\_\_\_  
Base Station check-in interval (hours) \_\_\_\_\_  
Base Station location and value \_\_\_\_\_  
\_\_\_\_\_

**ELECTROMAGNETIC**

Instrument \_\_\_\_\_  
Coil configuration \_\_\_\_\_  
Coil separation \_\_\_\_\_  
Accuracy \_\_\_\_\_  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency \_\_\_\_\_  
(specify V.L.F. station)  
Parameters measured \_\_\_\_\_

**GRAVITY**

Instrument \_\_\_\_\_  
Scale constant \_\_\_\_\_  
Corrections made \_\_\_\_\_  
\_\_\_\_\_  
Base station value and location \_\_\_\_\_  
\_\_\_\_\_  
Elevation accuracy \_\_\_\_\_

**INDUCED POLARIZATION  
RESISTIVITY**

Instrument \_\_\_\_\_  
Method  Time Domain  Frequency Domain  
Parameters – On time \_\_\_\_\_ Frequency \_\_\_\_\_  
– Off time \_\_\_\_\_ Range \_\_\_\_\_  
– Delay time \_\_\_\_\_  
– Integration time \_\_\_\_\_  
Power \_\_\_\_\_  
Electrode array \_\_\_\_\_  
Electrode spacing \_\_\_\_\_  
Type of electrode \_\_\_\_\_

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_

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 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

General \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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) \_\_\_\_\_

Township or Area \_\_\_\_\_

Claim Holder(s) \_\_\_\_\_

Survey Company \_\_\_\_\_

Author of Report \_\_\_\_\_

Address of Author \_\_\_\_\_

Covering Dates of Survey \_\_\_\_\_  
(linecutting to office)

Total Miles of Line Cut \_\_\_\_\_

**MINING CLAIMS TRAVERSED**  
List numerically

P (prefix)	783929 (number)
P	783930
P	783931
P	783932
P	783933
P	783934
P	783935
P	783936

If space insufficient, attach list

**SPECIAL PROVISIONS  
CREDITS REQUESTED**

DAYS  
per claim

ENTER 40 days (includes  
line cutting) for first  
survey.

ENTER 20 days for each  
additional survey using  
same grid.

- Geophysical \_\_\_\_\_
- Electromagnetic \_\_\_\_\_
- Magnetometer \_\_\_\_\_
- Radiometric \_\_\_\_\_
- Other \_\_\_\_\_
- Geological \_\_\_\_\_
- Geochemical \_\_\_\_\_

**AIRBORNE CREDITS** (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications \_\_\_\_\_

**Previous Surveys**

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 8 (this page)  
TOTAL CLAIMS = 30

OFFICE USE ONLY

**GEOPHYSICAL TECHNICAL DATA**

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

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_

Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_

Profile scale \_\_\_\_\_

Contour interval \_\_\_\_\_

**MAGNETIC**

Instrument \_\_\_\_\_

Accuracy – Scale constant \_\_\_\_\_

Diurnal correction method \_\_\_\_\_

Base Station check-in interval (hours) \_\_\_\_\_

Base Station location and value \_\_\_\_\_

**ELECTROMAGNETIC**

Instrument \_\_\_\_\_

Coil configuration \_\_\_\_\_

Coil separation \_\_\_\_\_

Accuracy \_\_\_\_\_

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency \_\_\_\_\_  
(specify V.L.F. station)

Parameters measured \_\_\_\_\_

**GRAVITY**

Instrument \_\_\_\_\_

Scale constant \_\_\_\_\_

Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

**INDUCED POLARIZATION  
RESISTIVITY**

Instrument \_\_\_\_\_

Method  Time Domain  Frequency Domain

Parameters – On time \_\_\_\_\_ Frequency \_\_\_\_\_

– Off time \_\_\_\_\_ Range \_\_\_\_\_

– Delay time \_\_\_\_\_

– Integration time \_\_\_\_\_

Power \_\_\_\_\_

Electrode array \_\_\_\_\_

Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_

54 St. Leonards Ave.  
Toronto, Ontario.  
M4N-1K3  
February 7, 1985

Miss S.E. Yundt  
Director  
Land Management Branch  
Ontario Ministry of Natural Resources  
Whitney Block,  
Queens Park,  
Toronto, Ontario.  
M7A-1W3

Dear Miss Yundt,

Re: Qualifications of author of Geotechnical Survey  
report submitted for assessment work credits.

Please find attached my qualifications for registration  
with the Ministry of Natural Resources. I would appreciate  
confirmation of the above.

Yours truly,



David B. Graham

**RECEIVED**  
FEB 12 1985  
MINING LANDS SECTION

<b>RECEIVED</b>	
Land Management Branch	
CIRCULATE	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
FEB 12 1985	
S. E. YUNDT	
J. R. MORTON	
J. C. SMITH	
W. L. GOOD	
M. J. HOGAN	
W. P. BROOK	
RETURN TO R. 6643	

DAVID B. GRAHAM

54 St. Leonards Avenue  
Toronto, Ontario  
M4N-1K3  
Telephone: (416) 489-1724

Personal Profile

Birthdate      September 14, 1955  
S.I.N.          454-268-756  
Height          5'10"  
Weight          165 pounds  
Health          Excellent

Education

B.Sc. (Geology) - University of Waterloo, Ontario, April 1983.

Work Experience

May 1983 -                      Getty Canadian Metals Ltd., Northwestern Ontario.  
December 1984                Mapping, prospecting, geochemistry and trenching.  
                                    Geophysical surveys and diamond drill supervision.  
                                    Data compilation and report writing.

May -                              Kerr Addison Mines Ltd., Northern Ontario.  
September 1982                Reconnaissance mapping, claim staking, geochemistry,  
                                    geophysics, prospecting.

January -                        Kerr Addison Mines Ltd., Northern Saskatchewan  
September 1981                and Manitoba.  
January -                        Field supervisor, diamond drilling, geophysics,  
October 1980                    geochemistry, detailed mapping, prospecting.

May -                              Hudbay Mining Ltd., Labrador and Newfoundland.  
September 1979                Crew leader, geophysics, trenching, mapping.

May -                              Ontario Ministry of Natural Resources, Geological  
September 1978                Surveys Division, Burntbush-Detour Lake region,  
                                    Ontario.  
                                    Geological mapping assistant.

May -                              Hudbay Mining Ltd., Val d'Or and Lebel-Sur-Quevillon,  
September 1977                Quebec.  
                                    Electro-magnetic survey, trenching, claim staking.

June 1975 -                      Kerr Addison Mines Ltd., Bancroft and Agnew Lake,  
September 1976                Ontario.  
                                    Party leader, radon survey, field measurements,  
                                    survey control layouts. In charge of mobilizing  
                                    field parties and retrieval of geochemical data.

DAVID B. GRAHAM

- June - Scintrex Surveys Ltd., Matagami area, Quebec and  
October 1974 Wollestone Lake area, Saskatchewan.  
Electro-magnetic, magnetic and radon surveys  
assistant. Air photo plotting.
- July - Ontario Ministry of Natural Resources, Chapleau,  
September 1973 Ontario.  
Junior Forest Ranger.
- August 1972 R. Bruce Graham and Associates Ltd., Wells, Nevada,  
U.S.A.  
Electro-magnetic survey assistant.
- July 1971 R. Bruce Graham and Associates Ltd., Fort Smith,  
Northwest Territories.  
Instrument man on airborne radiometric survey and  
assistant on ground follow-up.

References

Will be supplied on request.



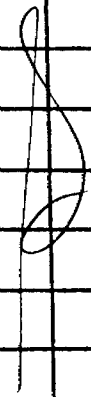
2.8935

7  
 783899 ✓  
 900  $\frac{3}{4}$   
 1  $\frac{1}{4}$   
 2 ✓  
 3 ✓  
 4  $\frac{1}{2}$   
 5 ✓  
 6 ✓  
 7 ✓  
 8  $\frac{1}{2}$   
 9 ✓  
 10  $\frac{3}{4}$   
 11  $\frac{1}{4}$   
 12 ✓  
 13  $\frac{1}{2}$

783922 ✓  
 23 ✓  
 24 ✓  
 25 ✓  
 26 ✓  
 27  $\frac{1}{4}$   
 28 ✓  
 29  $\frac{1}{2}$   
 30  $\frac{1}{4}$   
 31 ✓  
 32 ✓  
 33 ~~✓~~  
 34 ~~✓~~  $\frac{1}{4}$   
 35 ✓  
 36 ✓

$\frac{5}{4}$  NC

$30 \times 40 = 1200$   
 $120 \div 35 = 25 + \frac{3}{4}$

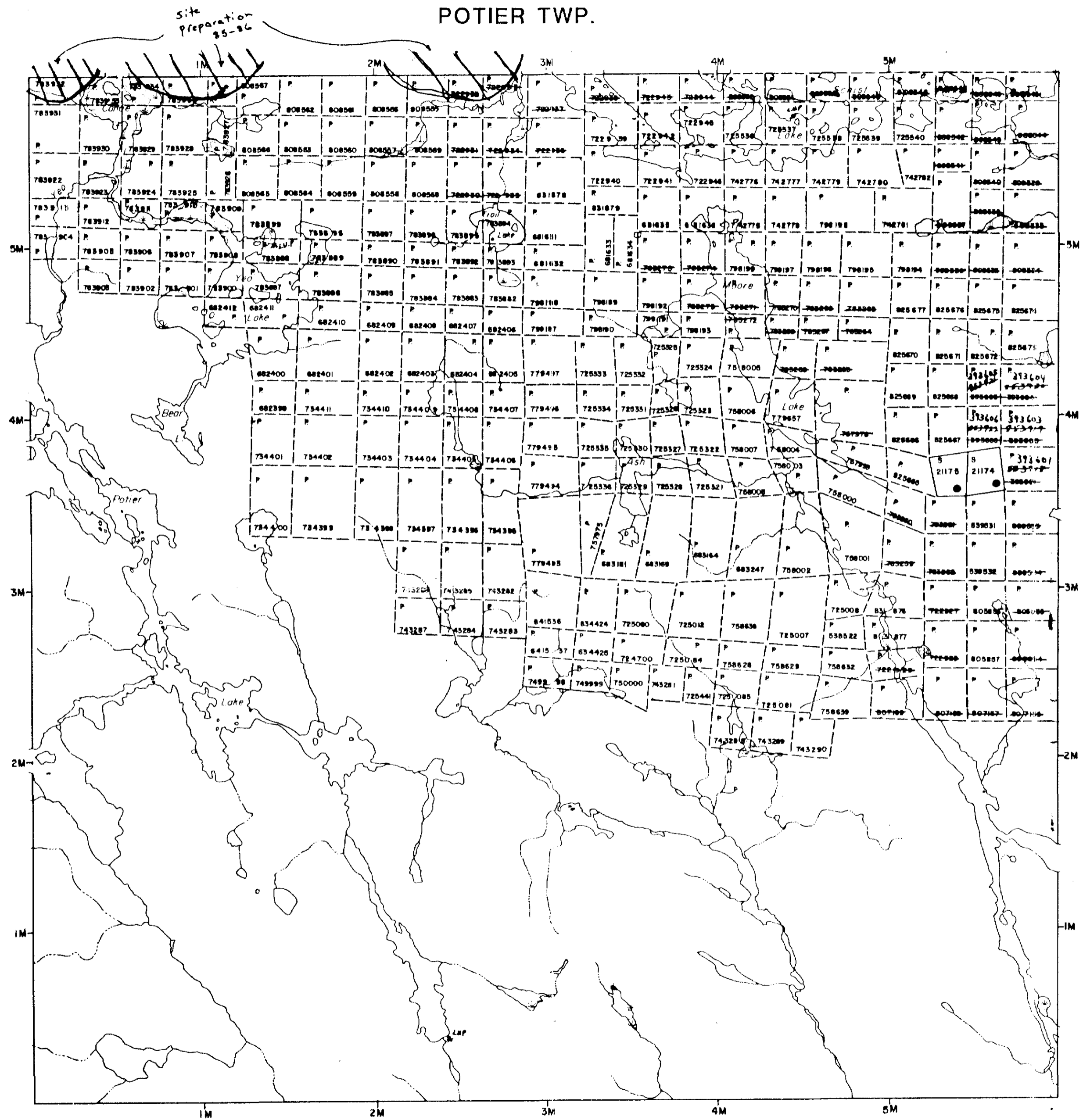


REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M. + S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File



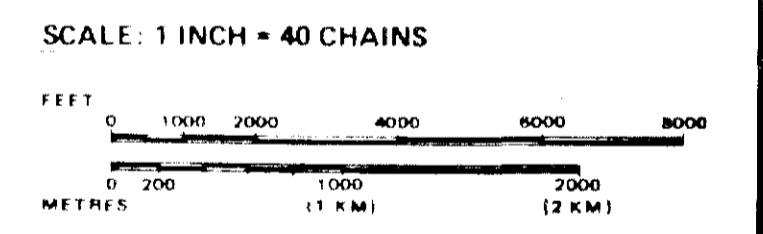
LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	■
" MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊙
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



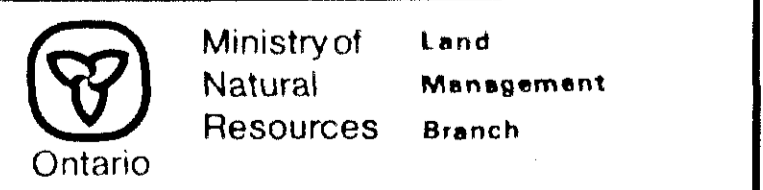
TOWNSHIP *Yeo*

**YEO**

M.N.R. ADMINISTRATIVE DISTRICT  
**GOGAMA**

MINING DIVISION  
**PORCUPINE**

LAND TITLES / REGISTRY DIVISION  
**SUDBURY**



Date **OCTOBER, 1983** Number **G-2481**

*receive checked 10/28/85*

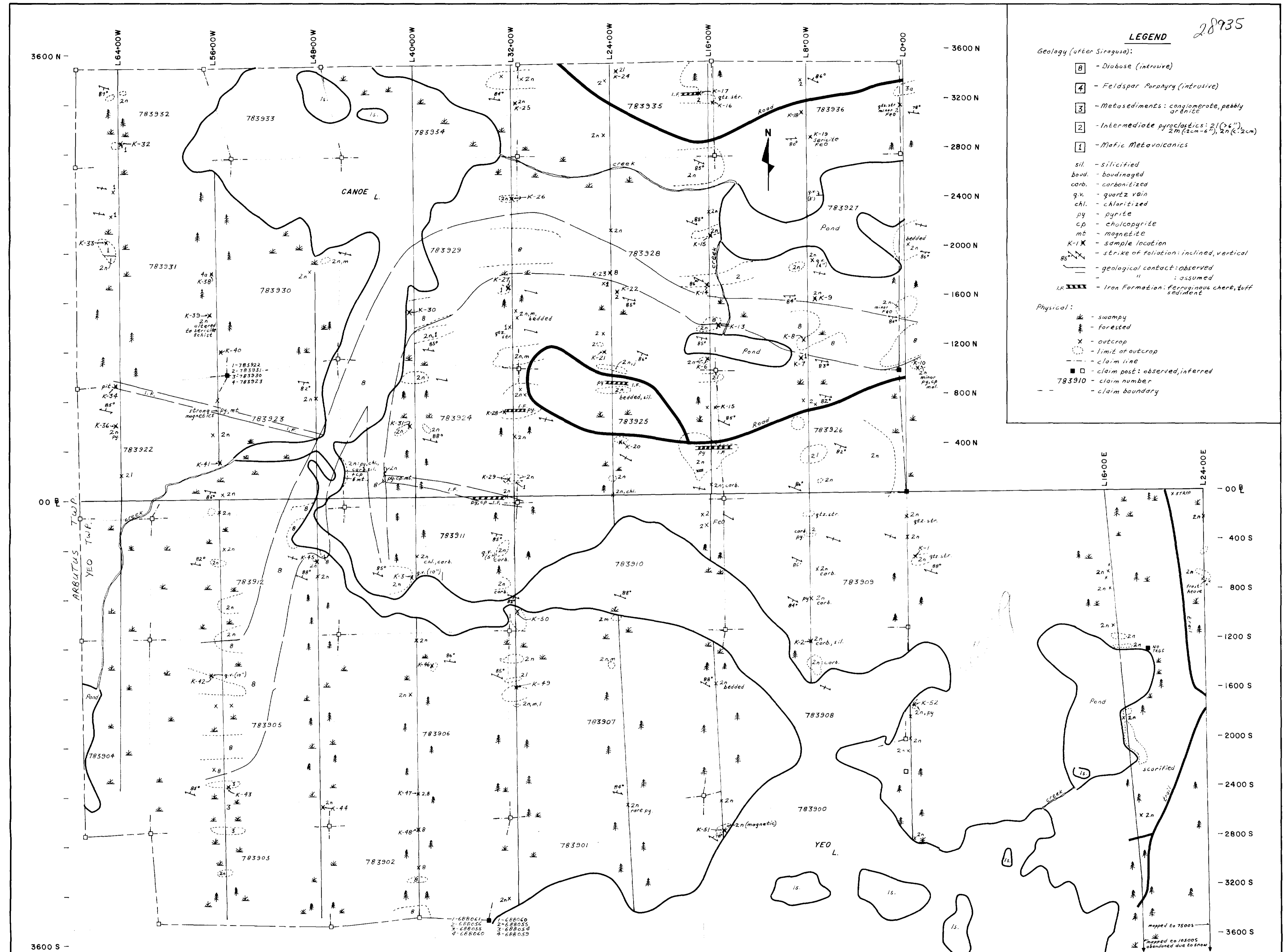


SMUTS TWP.

28935

LEGEND

- Geology (after Siragusa):
- [8] - Diabase (intrusive)
  - [4] - Feldspar Porphyry (intrusive)
  - [3] - Metasediments: conglomerate, pebbly or shale
  - [2] - Intermediate pyroclastics: 21 (26") 2m (2cm-6"), 2n (2-2cm)
  - [1] - Mafic Metavolcanics
- sil - silicified  
 bowd - boudinaged  
 carb - carbonized  
 q.v. - quartz vein  
 chl - chloritized  
 py - pyrite  
 cp - chalcopyrite  
 mt - magnetite  
 K-1 X - sample location  
 85° - strike of foliation: inclined, vertical  
 - - - - - : geological contact: observed  
 - - - - - : " : assumed  
 I.F. - Iron Formation: ferruginous chert, buff sediment
- Physical:
- swampy
  - forested
  - X - outcrop
  - - limit of outcrop
  - - - - - : claim line
  - - claim post: observed, inferred
  - 783910 - claim number
  - - - - - : claim boundary



1-688061 2-688056 3-688055 4-688060  
 1-688040 2-688055 3-688054 4-688059

B&B MINING (CANADA) LIMITED	
GEOLOGICAL COMPILATION MAP	
KINGBIRD OPTION, YEO TOWNSHIP	
SWAYZE GOLD BELT, ONTARIO.	
SCALE 1"=400'	Feet 400'
GEOLOGY BY: D. GRAHAM, 1985.	FIG.
Drawn by: J. Bankowski, Jan., 1986.	

