



42A13SE0009 2.12201 GEARY

A Report of the Property of

DAVID J. MEUNIER

Geary Township,
Porcupine Mining Division,
Ontario

by

R.P. Bowen, P.Eng.

RECEIVED
FEB 17 1989
MINING LANDS SECTION

R.P. BOWEN ENGINEERING INC.
P.O. Box 5010, PMS, South Porcupine, Ontario P0N 1K0

(705) 235-5139

30 December 1988

M-007



42A13SE0009 2.12201 GEARY

010C

TABLE OF CONTENTS

	Page
SUMMARY.....	i
INTRODUCTION.....	1
Location and Access.....	1
Claims Covered in this Survey.....	3
PREVIOUS WORK.....	5
GENERAL GEOLOGY.....	8
Regional Geology.....	8
Property Geology.....	8
CONCLUSIONS AND RECOMMENDATIONS.....	9
REFERENCES.....	10

FIGURES

Figure 1 - Regional Location Map.....	2
Figure 2 - Claim Map.....	4

Geology Map 1"=400 feet
(back pocket)

SUMMARY

This report describes the geology underlying the David Meunier claim group in Geary Township, Porcupine Mining Division, Ontario. The claim group is comprised of 15 staked mining claims.

There was no outcrop on the claims and traverses were made by walking the claim lines during and after staking.

It is recommended that lines be cut and ground geophysical surveys be conducted in an attempt to obtain a more complete geological picture of the underlying geology.

INTRODUCTION

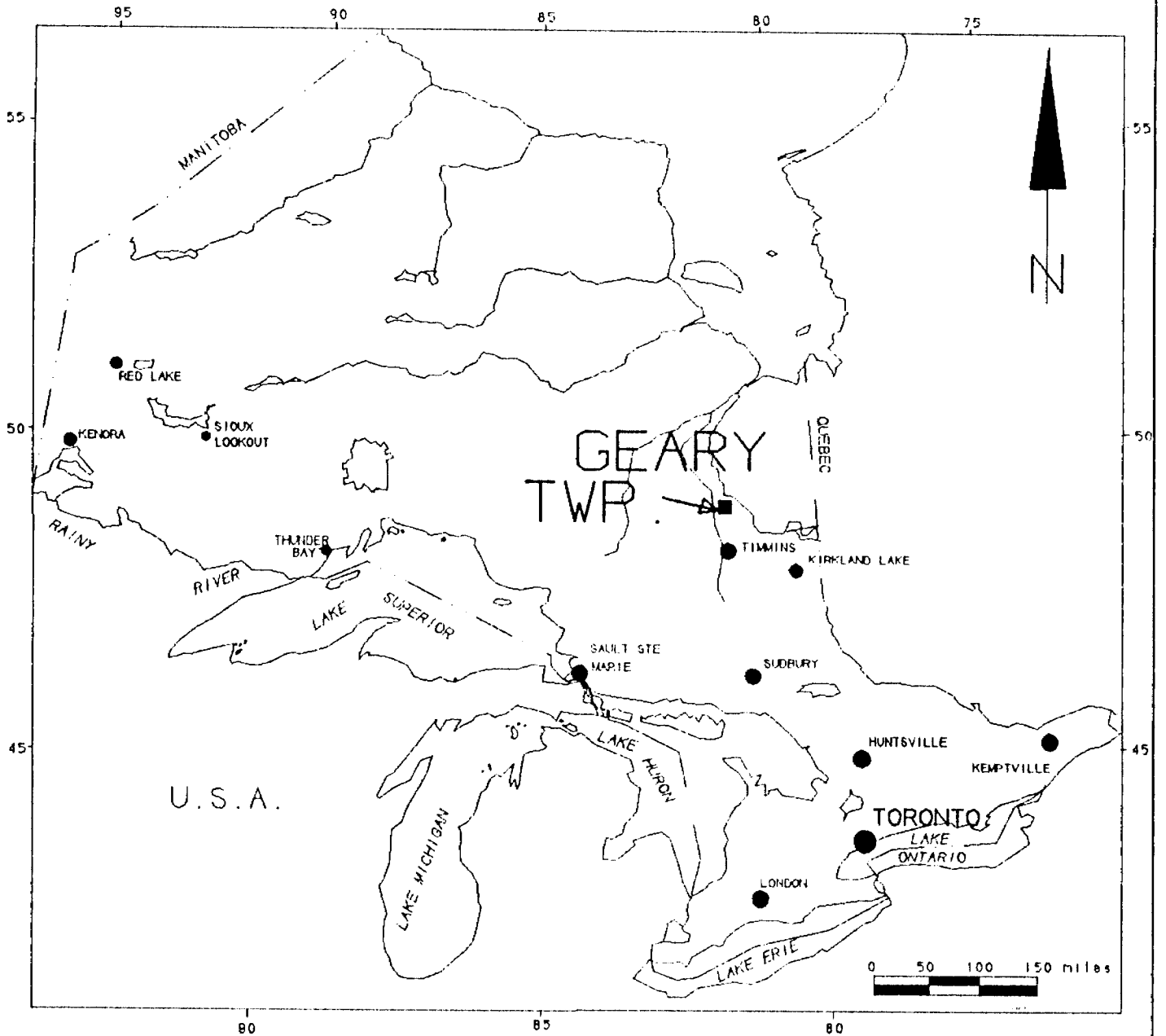
This report describes the geology underlying a block of 20 staked mining claims in Geary Township, Ontario, Porcupine Mining Division.

The claims are held by Mr. David J. Meunier, License M-17157 of 403 Dome Street, South Porcupine, Ontario P0N 1H0.

The survey was conducted by R.P. Bowen Engineering Inc., P.O. Box 5010, PMS, South Porcupine, Ontario P0N 1K0.

Location and Access

Geary Township lies approximately 25 miles north of Timmins, Figure 1. Geary Township may be reached by a forest access road going north from Highway 576 at Kamiskotia Lake or south from Highway 11 west of Smooth Rock Falls. This road passes approximately three quarters of a mile from the northwestern corner of the claim block.



PROVINCE OF ONTARIO



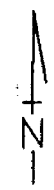
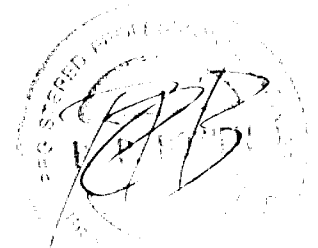
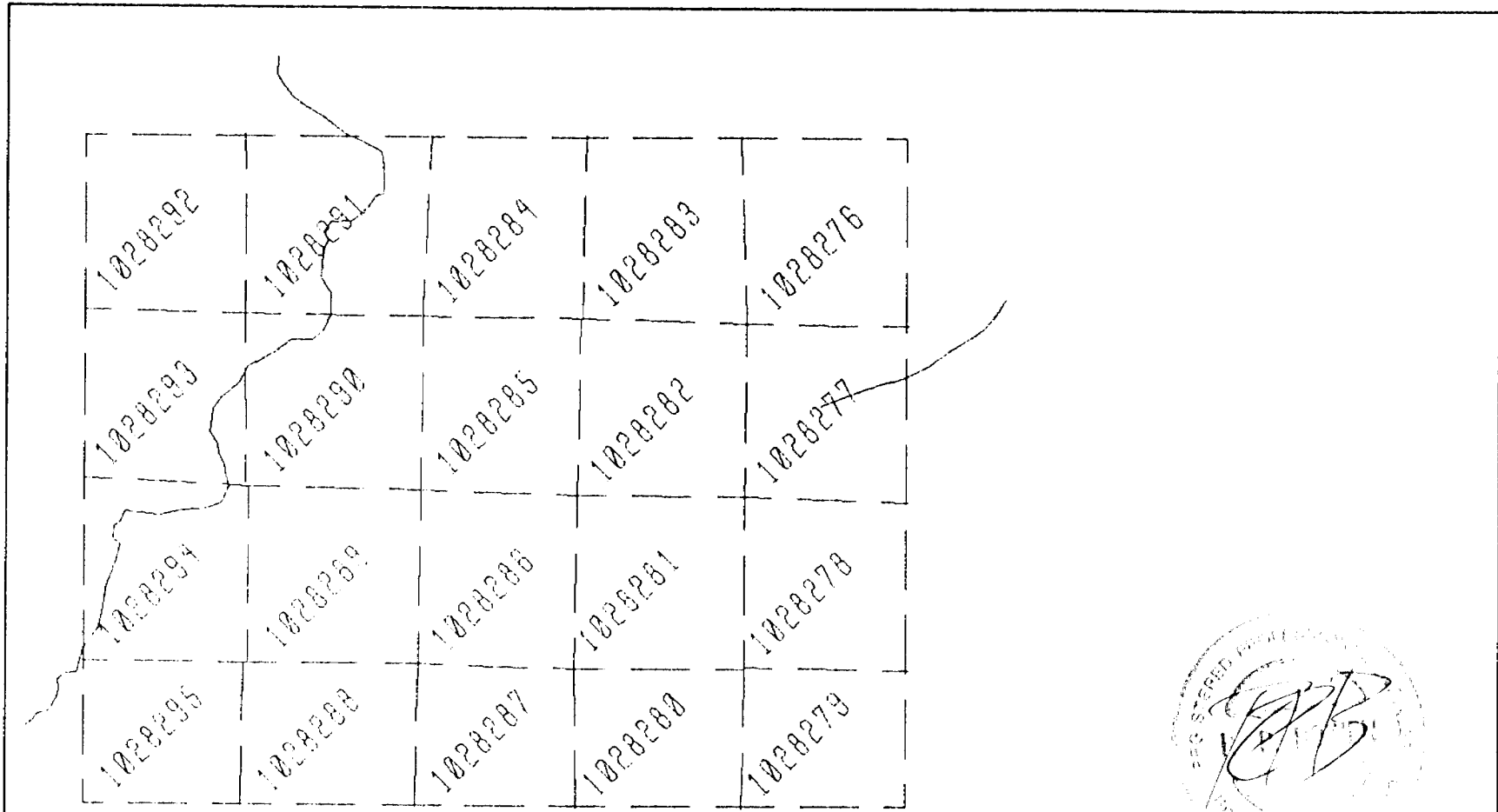
R.P. BOWEN ENGINEERING INC.		
Client: DAVID J. MEUNIER		
Title: REGIONAL LOCATION MAP		
Fig. 1		
Date: JAN 1988	Scale: 1" = 150 mi	N.I.S.:
Drawn: R.P.B.	Approved: R.P.B.	File: B-0007-88

Claims Covered in this Survey

A total of 20 contiguous staked mining claims were covered in this survey.

Claim Number

P-1028276
P-1028277
P-1028278
P-1028279
P-1028280
P-1028281
P-1028282
P-1028283
P-1028284
P-1028285
P-1028286
P-1028287
P-1028288
P-1028289
P-1028290
P-1028291
P-1028292
P-1028293
P-1028294
P-1028295



R. P. BOWEN ENGINEERING INC.		
Client: DAVID MEUNIER		
Title: CLAIM MAP <small>Fig. 2</small>		
DATE: SEP 88	SCALE: 1" = 1/4 mi.	N.T.S. 42A/13
DRAWN BY: R.P.B.	APPROVED BY: R.P.B.	FILE: B-0007

GEARY TWP.

From DAWND App G-3503

PREVIOUS WORK

Of the several companies that have submitted work in Geary Township only the Keevil Mining Group Ltd. actually diamond drilled on the present Menuier claims.

C.C. Huston Property Grid No. 2, T-575, 1955

Grid number two covered the ground west and on strike to the present claim block. A few weak conductors were delineated in geophysical work, however, no follow-up work was done.

The Consolidated Mining and Smelting Company of Canada Limited, T-1034, 1965

Cominco held ground south of the property and conducted an electromagnetic survey and drilled three holes into TURAM conductors. The drilling intersected mostly talc-chlorite and chlorite schists with graphitic slate and pyritic conductors.

Great Basin Mines Limited, T 1277, 1965

Great Basin held a block of claims covering the eastern claims up to the township boundary. These 12 claims were surveyed with magnetic and EM methods. The magnetics delineated several diabase dikes. No follow-up work was recommended.

Gulf Minerals Canada Limited, T-2367, 1981

Gulf conducted a large exploration program over several townships and several grids were cut over selected areas in Geary Township although none were on the present Meunier claim group. Diamond drilling east of the property intersected intermediate tuffs, wacke with graphitic and basalt tuff. Grids O, P and Q were cut and magnetic surveys conducted over them. Several diamond drill holes were drilled as follow-up.

P-1 West of the property intersected basalts, komatiites, graphitic-pyrite tuffs and rhyolite with lesser ultramafics.

Q-1 Collared in oxide iron formation then pyrite with an alternating series of andesite and pyrite to basalt, graphite and ultramafics.

N-1 Rhyolite tuffs and a pyritic zone were encountered.

U-1 Intermediate to felsic ash flow tuff with quartz-carbonate veining and calcite-ankerite-sericite alteration was described.

U-2 Intermediate tuff with quartz-carbonate veining and similar alteration to U-1 was intersected.

Keevil Mining Group Limited., T-1002, 1965

The Keevil Group staked 9 claims over what now is the present Meunier claim group. They conducted a ground magnetic survey over 9 claims and an electromagnetic survey over 6 claims. Follow-up diamond drilling was done on the defined conductors. The first hole (T-65-16) drilled directly down a diabase dike. The next hole (T-65-16A) was stepped over to the west and intersected 5 feet of 0.17 oz/ton gold. The other holes (T-65-17 and T-65-19) intersected felsic tuffs and chemical metasediments as well as graphitic slates that contained sulfides.

Leitch Gold Mines Ltd., T-995, 1965

Leitch staked 15 claims west of the present claims. One diamond drill hole was put down and intersected graphitic chert, intermediate and felsic tuffs. No significant assays were returned, but, shearing and mineralization were prevalent.

David Meunier, T-3129, 1986

David Meunier staked 78 claims and had a geological survey conducted over the claim group in 1986. The claims were not optioned and money was not raised to continue work and they were allowed to lapse. The present claims were restaked over the north-central part of this block.

Phelps Dodge Corporation of Canada Limited, T-1706, 1975

Phelps Dodge conducted a number of large scale surveys and staked numerous claim blocks over geological and geophysically interesting ground. One such group was south of the present claim block. Nothing of significance was detected from the ground magnetic and electromagnetic surveys and no follow-up work was done.

Young Davidson Mines, T-1783, 1977

In the same general area of the Cominco drilling Young Davidson staked a group of claims. Ground magnetic and electromagnetic surveys were conducted delineating several conductors. Five diamond drill holes were put down as follow-up. Holes 1 and 2 intersected altered and sheared metavolcanics with sheared diorite. Alteration was carbonate, (Hole one lost circulation and had to be terminated before bedrock was reached so it was redrilled). Hole 3 intersected peridotite and talc-chlorite schist and diorite. Hole 4 intersected peridotite, mafic metavolcanics, a lamprophyre dike and some carbon-rich and amygdaloidal sections. No assays of significance were reported, however, four of the claims were taken to lease for both surface and mining rights.

Yukeno Mines Limited, T-948, 1965

Sulmac Exploration Services Limited conducted ground magnetometer and electromagnetic surveys over claims to the southwest of the present claims. The magnetics indicated a north-south diabase dike along the west side of the property. Lines were cut parallel (east-west) to the stratigraphy so only the dikes were discerned.

GENERAL GEOLOGY

Regional Geology

The regional geology underlying the area of Geary Township is a synformal structure about an east trending axis. Felsic to intermediate pyroclastics ranging from breccias to tuffs with lesser flows form the inner portion of the synform with mafic metavolcanic flows on the outer portions of the limbs. The sequence appears to be repeated further out on the limbs. Lesser mafic and felsic hypabyssal intrusives are noted locally. Cherty beds are noted in diamond drill core and mineralization is noted in diamond drilling north and west of the property. Metasedimentary rocks were encountered in diamond drilling as well, however, they were a minor percentage. They were often graphitic slates and were often pyritized indicating deposition in a reducing environment. Alteration appears to be mainly chlorite and carbonate with lesser sericite and green mica and sulfides. Minor komatiitic units are indicated by the presence of talc schists. Shearing is described as schistose and other penetrative fabric descriptions. Diabase dikes cut all lithologies and was intersected in at least one diamond drill hole.

Property Geology

The immediate Meunier claims are underlain by a series of predominately felsic to intermediate metavolcanic tuffs and pyroclastics with lesser mafic flows. Only minor clastic and chemical metasedimentary units are present as interpreted from diamond drilling. Graphitic slates with pyrite and felsic tuffs and associated pyroclastics that have been pyritized are part and parcel of the same package. Cherty beds may indicate exhalites at the hiatus between volcanic eruptions. The axis of the syncline described in the foregoing section passes through the Meunier property. Metamorphism appears to greenschist in grade.

Alteration from diamond drilling records is chlorite, sericite, green mica and pyrite. Mineralization is mainly pyrite, however, pyrrhotite and chalcopyrite was also reported. One gold assay of 0.17 ounces gold per ton was reported in the Keevil records.

CONCLUSIONS AND RECOMMENDATIONS

This property is covered with a deep mantle of glacial overburden and a comprehensive program of geophysics including ground magnetic and horizontal loop electromagnetic surveys followed up in selected areas with induced polarization/resistivity surveys will be the most cost effective way to map the underlying geology. Overburden reverse circulation drilling may be used to trace any lodgement till gold trains to a source could be used as a tool to help select diamond drill targets.

REFERENCES

- Bright, E.G. and Hunt, D.S.
1972: Geary Township, District of Cochrane; Ontario Department of Mines and Northern Affairs, Prelim. Map P.739, Timmins Data Series, scale 1 inch to $\frac{1}{4}$ mile. Data compiled 1971.
- Pyke, D.R. et al
1973: Timmins-Kirkland Lake Sheet, Map 2205, Ontario division of Mines, Ministry of Mines and Northern Affairs, scale 1:253,440.

ASSESSMENT WORK FILES

- C.C. Huston Property Grid No. 2, T-575, 1955
- The Consolidated Mining and Smelting Company of Canada Limited, T-1034, 1965
- Great Basin Mines Limited, T-1277, 1965
- Gulf Minerals Canada Limited, T-2367, 1981
- Keevil Mining Group Ltd., T-1002, 1965
- Leitch Gold Mines Ltd., T-995, 1965
- David Meunier, T-3129, 1986
- Phelps Dodge Corporation of Canada Limited, T-1706, 1975
- Young Davidson Mines, T-1783, 1977
- Yukeno Mines Limited, T-948, 1965

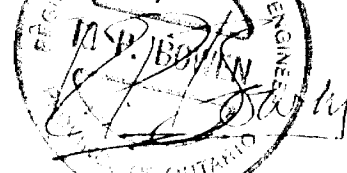
CERTIFICATION

I, R.P. Bowen, P.Eng., of 142 Eric Crescent, Porcupine, Province of Ontario, certify as follows concerning my report on the Geary Township, Ontario property of David Meunier and dated 30 December 1988.

- 1) I am a member in good standing of:
 - a) The Association of Professional Engineers of the Province of Ontario
 - b) The Canadian Institute of Mining and Metallurgy
 - c) The Society of Mining Engineers of the A.I.M.E.
 - d) The American Society of Photogrammetry and Remote Sensing
- 2) I am a graduate of Michigan Technological University, Houghton, Michigan with a B.S. degree in Geological Engineering obtained in 1970 and a B.S. degree in Engineering Administration obtained in 1971.
- 3) I am a graduate of Mc Gill University, Montreal, Quebec with a Diploma in Geological Sciences obtained in 1972 and a M.Sc. (Applied) in Minerals Exploration obtained in 1973.
- 4) I have been practising my profession in Canada and the United States for the past 20 years.
- 5) I have no direct interest in the properties, leases, or securities of David Meunier nor do I expect to receive any.
- 6) The attached report is the product of:
 - a) Data listed in the references.
 - b) Assessment work files - Timmins Resident Geologist's Office and the Toronto Assessment Records Office.
 - c) Discussions with colleagues who have worked in the area.
 - d) My personal acquaintance with the Timmins geology and other properties in the area, some of which I have examined and worked on for other companies.
 - e) A personal visit to the property both from 25 to 30 November 1986 and 9 to 23 May 1988.

Dated this 30th day of
December 1988

Timmins, Ontario



R.P. Bowen, P.Eng.



42A13SE0009 2.12201 GEARY

900

2.12201

Mini

Type of Survey(s) **GEOLOGICAL**

Claim Holder(s) **MIKE WABANO**

Address **152 FIFTH AVE TIMMINS ONT**

Survey Company **R.P. BOWEN ENGINEERING INC**

Name and Address of Author (of Geo-Technical report) **R.P. BOWEN 142 ERIC ST. PEACOCK ONTARIO**

Date of Survey (from & to) **9 5 88 23 5 88**

Township of Area **GEARY TWP**

Prospector's Licence No. **M-20028**

Total Miles of line Cut

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter totals here	- Electromagnetic - Magnetometer - Radiometric - Other	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys	- Electromagnetic - Magnetometer - Radiometric	

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
E	1028276				
	1028277				
	1028278				
	1028279				
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	1028294				
	1028295				

RECEIVED

JAN 21 1989

MINING LANDS SECTION

RECORDED

JAN 13 1989

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures **\$** **JAN 13 1989** ÷ **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. **15**

For Office Use Only

Total Days Credits Recorded **400**

Date Recorded **Jan 13/89**

Mining Party **See Reversed statement**

Approved by **[Signature]**

Date **JAN 13 89**

Recorded By or Assent (Signature) **[Signature]**

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 J MEUNIER P.O. Box 1024 S. PEACOCK ONT.**

Date Certified **JAN 13 1989**

Certified by (Signature) **[Signature]**



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

April 20, 1989

Mining Lands Section
3rd floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

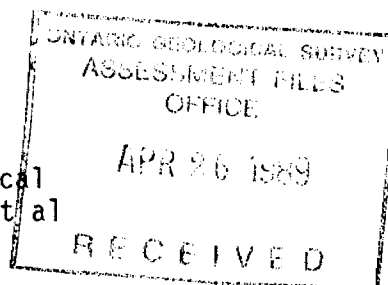
Telephone: (416) 965-4888

Your file: W8906-020
Our file: 2.12201

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

Dear Sir:


Re: Notice of Intent dated March 14, 1989 Geological
Survey submitted on Mining Claims P 1028276 et al
in the Geary 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,


W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

AB:eb
Enclosure

cc: Mr. G.H. Ferguson
Mining and Lands Commissioner
Toronto, Ontario

Mike Wabano
Timmins, Ontario

R.P. Bowen
Porcupine, Ontario

Resident Geologist
Timmins, Ontario

David J. Meunier
South Porcupine, Ontario



Recorded Holder
Mike Wabano

Township or Area
Geary Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</p> <p>Electromagnetic _____ days</p> <p>Magnetometer _____ days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological <u>10</u> days</p> <p>Geochemical _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>P 1028276 to 295 incl.</p>

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

[Empty box for special credits]

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

Credits reduced due to excessive spacing between traverse lines.

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; Geological - 40; Geochemical - 40; Section 77(19) - 60.



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 Geary Township
Claim Holder(s) David Meunier
Survey Company R.P. Bowen Engineering Inc.
Author of Report R.P. Bowen
Address of Author South Porcupine, ON
Covering Dates of Survey 9 May - 23 May 1988
Total Miles of Line Cut 0

MINING CLAIMS TRAVERSED
List numerically

- P 1028276
P 1028277
P 1028278
P 1028279
P 1028280
P 1028281
P 1028282
P 1028283
P 1028284
P 1028285
P 1028286
P 1028287
P 1028288
P 1028289
P 1028290
P 1028291
P 1028292
P 1028293
P 1028294
P 1028295
TOTAL CLAIMS 20

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

Geophysical DAYS per claim
--Electromagnetic
--Magnetometer
--Radiometric
--Other
Geological 20
Geochemical

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: 30 Sep 1988 SIGNATURE: [Signature]

Res. Geol. Qualifications 2.2257

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder

OFFICE USE ONLY

If space insufficient, attach list

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 _____

REFERENCES

AS WITHDRAWN FROM DISPOSITION

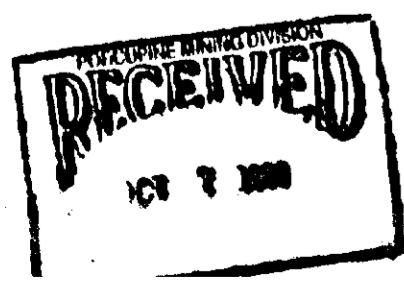
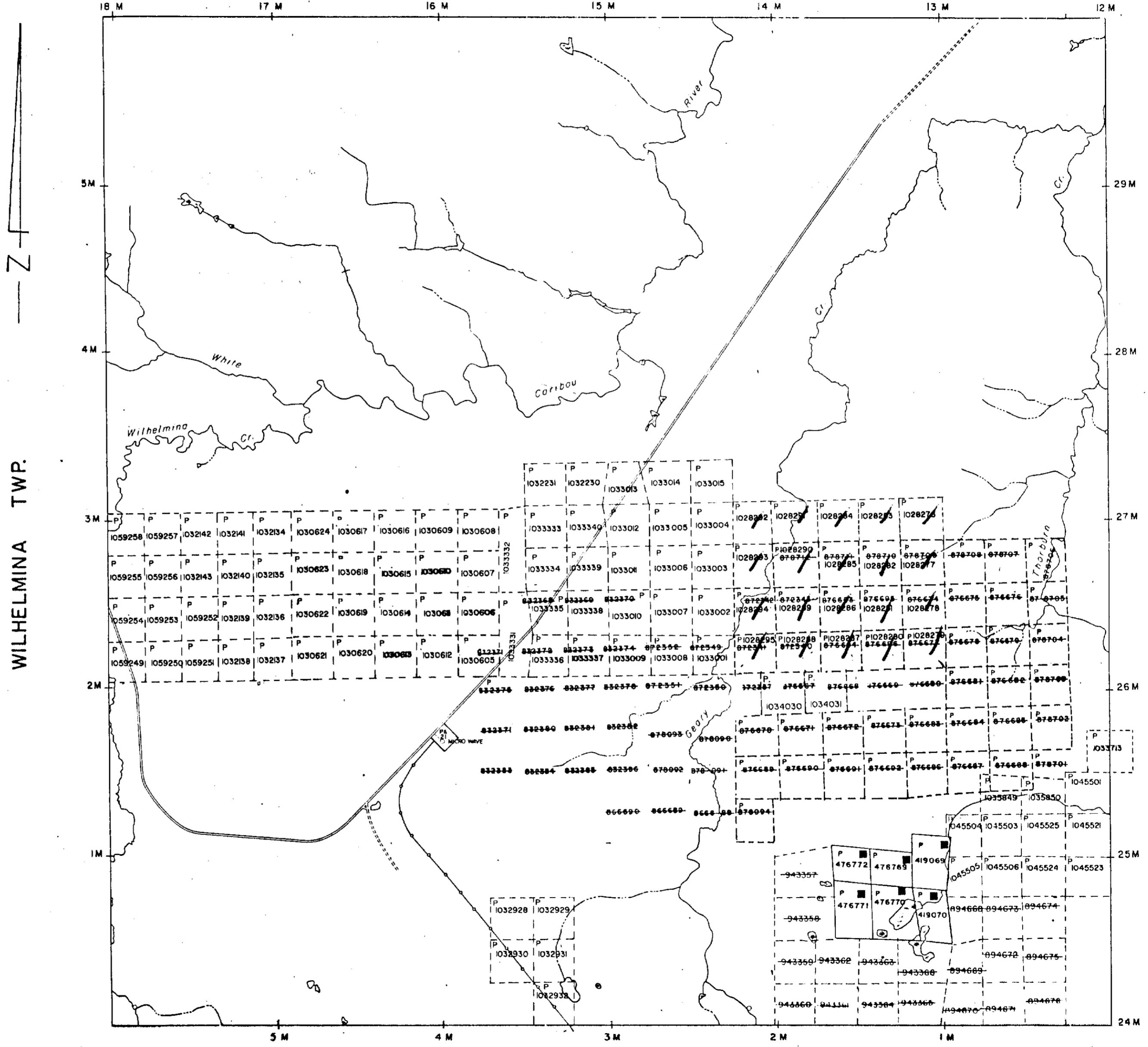
M.R.O. - MINING RIGHTS ONLY

S.R.O. - SURFACE RIGHTS ONLY

M.+S. - MINING AND SURFACE RIGHTS

Location Order No. Date Disposition File

KINGSMILL TWP.



THORBURN TWP.

HIGH
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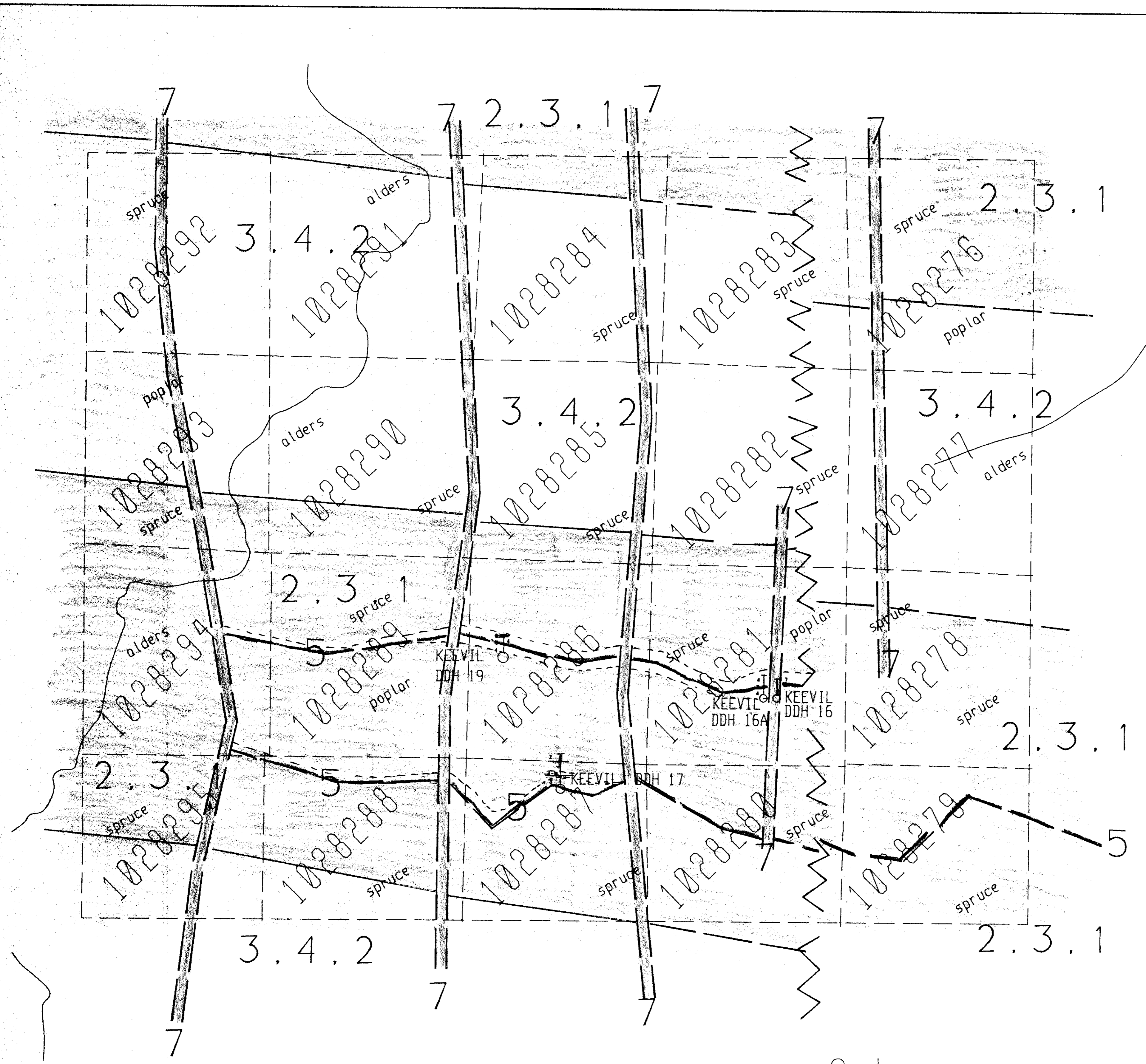
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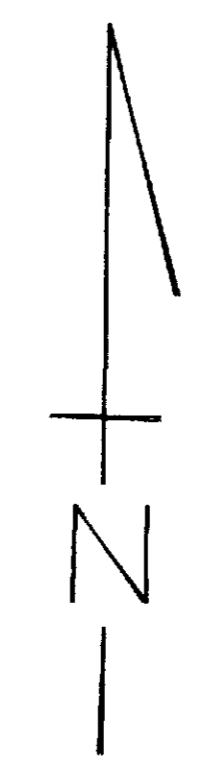
LEGEND

- LATE TO MIDDLE ARCHEAN
- MAFIC INTRUSIVE ROCKS
- 7 Diabase dike
- INTRUSIVE CONTACT
- EARLY ARCHEAN
- CLASTIC METASEDIMENTARY ROCKS
- 6 Slate & quartzite
- CHEMICAL METASEDIMENTARY ROCKS
- 5 Sulfide and graphite units
- FELSIC METAVOLCANIC ROCKS
- 4 Tuffs & pyroclastics
- INTERMEDIATE METAVOLCANIC ROCKS
- 3 Tuffs & flows
- MAFIC METAVOLCANIC ROCKS
- 2 Flows & chlorite schists
- 1 Komatiitic units **2.12201**

- Diamond drill hole
- Interpreted geological boundary
- Fault

Information derived from:
 Pyke, D.R. et al Map 2205 (1972)
 Bright, E.G. and Hunt, D.S. Map P.739 (1971)
 OGS Map 81,044 (1989)
 assessment file data Timmins and Toronto

GEARY TWP.



R.P. BOWEN ENGINEERING INC.		
Client: DAVID MEUNIER		
Title: GEOLOGY MAP		
DATE: SEP 88	SCALE: 1" = 400'	N.T.S. 42A/13
DRAWN BY: R.P.B.	APPROVED BY: R.P.B.	FILE: B-0007