



42A06NW0211 2.4346 OGDEN

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2.4346

REPORT ON A GEOLOGICAL SURVEY

RECEIVED
DEC 1 - 1981
MINING LANDS SECTION

OGDEN-10

PROJECT 1043-27

NTS: 42-A-6

AMAX MINERALS EXPLORATION

Timmins, Ontario
October, 1981

P. Lickley

SUMMARY

During August of 1981, a geological survey was performed on eleven (11) claims in north eastern Ogden township, District of Cochrane, Ontario.

The property is interpreted as being underlain by sedimentary rocks of the Tisdale Group.

It is recommended that no further work be done on this property at this time.

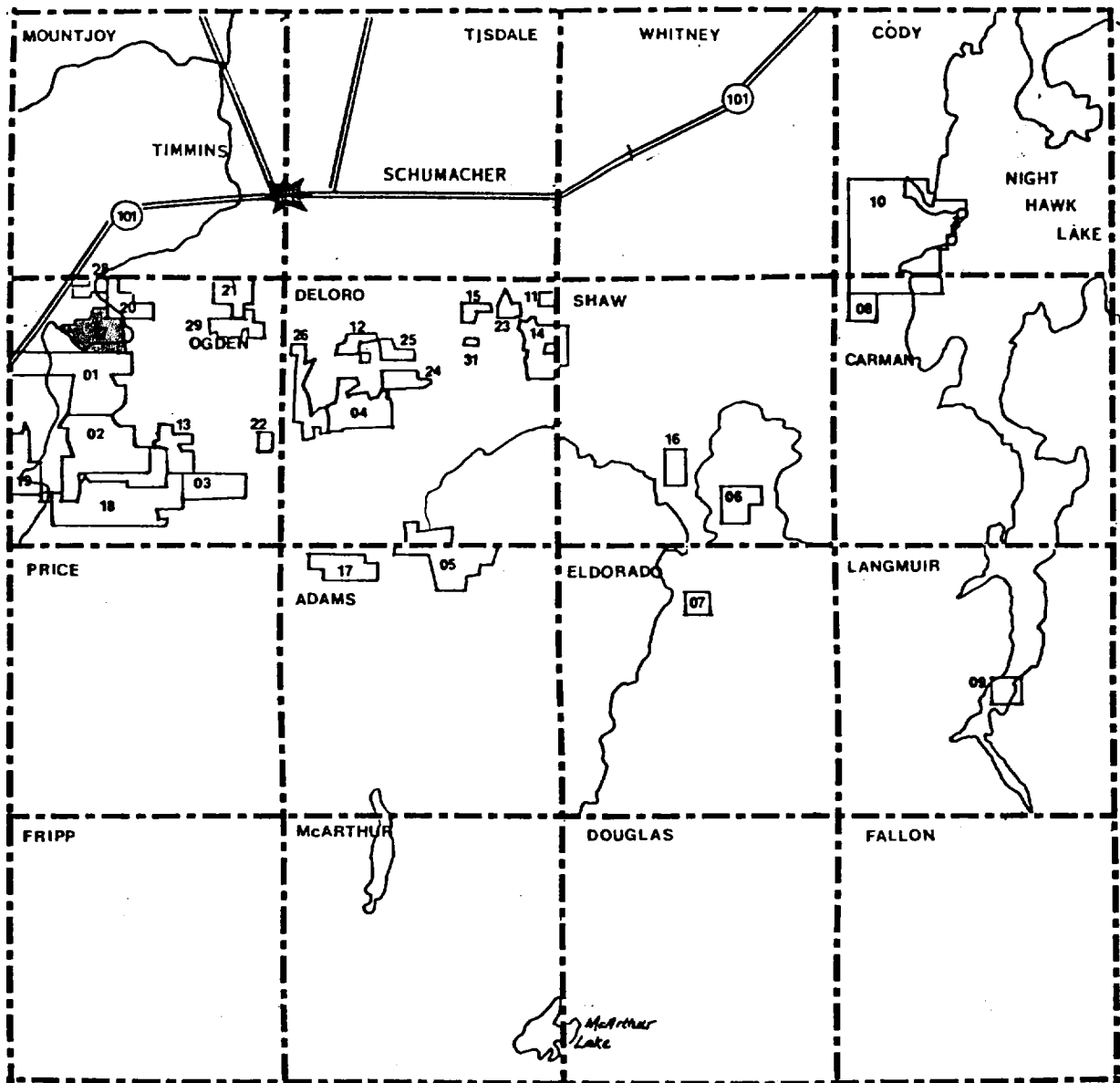
INTRODUCTION

A detailed geological survey was carried out on a group of eleven (11) claims in Ogden township during August, 1981. The claim numbers are P-610027 to P-610037 inclusive and are recorded in the name of Amax of Canada Limited.

LOCATION AND ACCESS

The group of eleven (11) claims is situated on the west bank of the Mattagami River in the north west area of Ogden township, District of Cochrane, Ontario.

The property is easily accessible by highway 101 west from Timmins and by a gravel road from the highway to the river.



LOCATION MAP

Project 1043-27

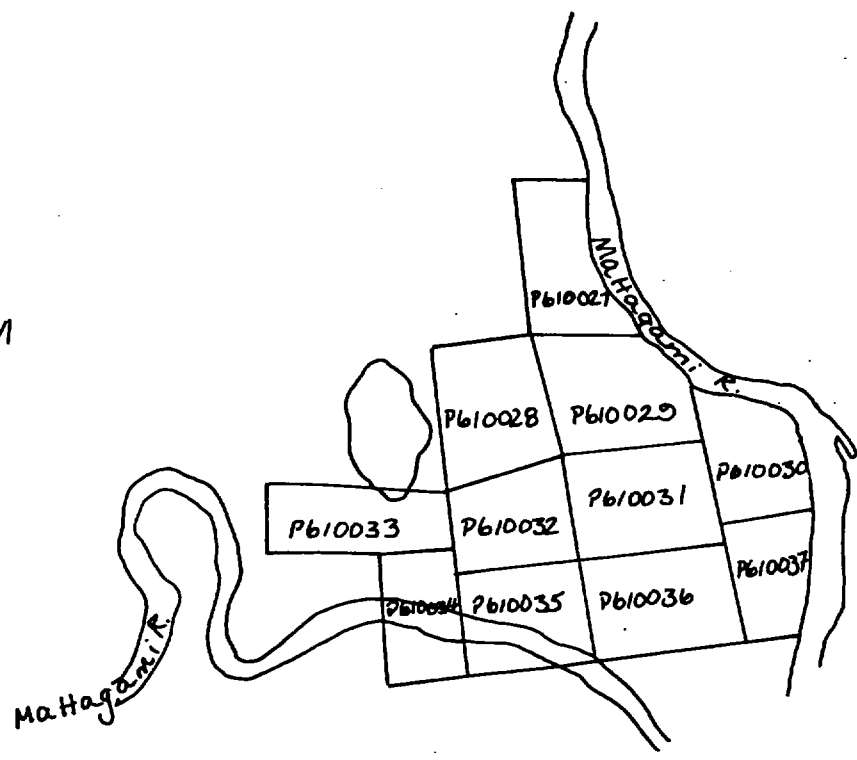
OGDEN-10

1" = 4 miles

Lot 10 | Lot 9 | Lot 8



JM



CLAIM MAP

Project 1043-27

OGDEN-10

Ogden Township

1"=1/2 mile (approx.)

TOPOGRAPHY AND RESOURCES

The relief on the property is low though mature stands of poplar and pine, wood the area. Only a few alder swamps exist near the river or in the claims interior. The soils on these claims are predominately sandy.

The Mattagami River which bounds the south and east margins of the claims and a lake situated just west of the claims provide excellent sources of water for diamond dirlling.

PREVIOUS WORK

From Assessment Files

Globe Mining Company Limited apparently ran a Ronka HEM ground geophysics survey over almost the entire claims area in February, 1965. No conductors were apparent from the survey.

An airborne magnetic and geophysical survey was flown over the claims area in the fall of 1979. The data from that survey yielded no conductors or anomalies on the claims.

No previous work was observed in the field.

SURVEY METHOD

The survey was conducted by D. Messenger, D. MacLean,

TABLE OF FORMATIONS

CENZOIC

Quaternary

Recent

Swamp and stream deposits

Pleistocene

Till, clay, sand, gravel

Unconformity

PRECAMBRIAN

Mafic Intrusive Rocks

Olivine diabase, quartz diabase

Intrusive Contact

Huronian Supergroup

Gowganda Formation, Cobalt Group

Arkose, wacke, argillite, conglomerate

Unconformity

ARCHEAN

Mafic Intrusive Rocks

Diabase

Intrusive Contact

Felsic Intrusive Rocks

Quartz feldspar porphyry, granite, diorite, granodiorite

Metamorphosed Mafic Intrusive Rocks

Gabbro, quartz gabbro

Intrusive and Gradational Contact

Metamorphosed Ultramafic Intrusive Rocks
Serpentinized diorite, peridotite
Intrusive Contact

METAVOLCANICS AND METASEDIMENTS

Metasediments

Conglomerate, lithic wacke, iron formation

Metavolcanics

Felsic Calc Alkalic metavolcanics

Massive, fine-grained flows, tuff, lapilli tuff, breccia

Mafic Calc-alkalic metavolcanics

Massive, fine-grained flows, pillowed flows, tuff, lapilli
tuff and breccia, sheared, carbonated pyroclastics

Tholeiitic Metavolcanics

Massive to medium grained flows, pillowed flows and flow
breccia, minor tuff, lapilli tuff and breccia

Komatiitic Metavolcanics

Peridotite, olivine spinifex, carbonate and talc alteration

H. McGowan, S. White and P. Lickley during early August, 1981. Air photographs at a scale of 1:30,000 and photo blow-ups at a scale of 1:5,000 were used for control. Pace and compass lines were run along claim boundaries and at 125 metre intervals across the claims.

REGIONAL GEOLOGY

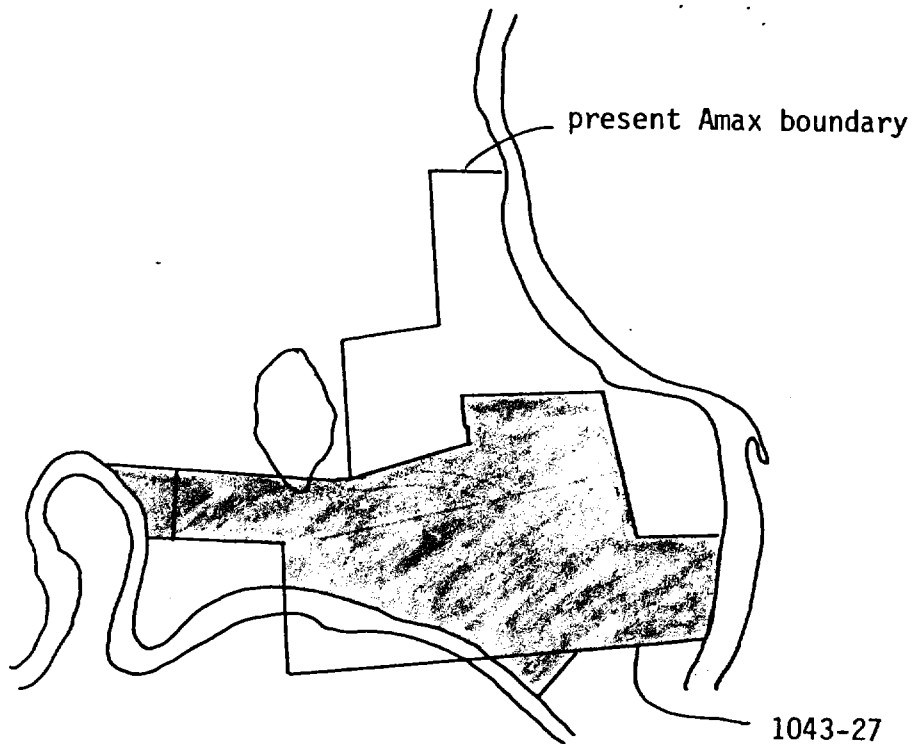
The volcanic rocks of the Timmins area consist of the older Deloro Group and the younger overlying Tisdale Group.

The Deloro Group is confined to a large domal structure centred in Shaw township. It grades from andesite and basalt flows in the lower portion to dacite and rhyolite pyroclastics near the top. A major change in volcanism marks the beginning of the Tisdale Group, the Lower Volcanic Formation of which is marked by serpentized ultramafic flows.

The Destor-Porcupine Fault is the major structural feature in the area, along with the Porcupine Syncline to the north of it and the Shaw Dome to the south.

PROPERTY GEOLOGY

No outcrop was found on these claims but regional interpretation of the 1979 airborne magnetic data indicated that the area is underlain by sedimentary rocks of the Tisdale Group.



Area covered by ground electromagnetics and magnetic survey. (Globe Explns., 1965)

Note: Area interpreted to be underlain by metasediments

AMAX MINERALS EXPLORATION

PROJECT: DELORO (1043)

GROUP : 1043-27, Ogden 10

TWP : Ogden

Survey : Compilation

Date : August, 1981

SCALE : 1" = 2640' (approx.)

CONCLUSIONS AND RECOMMENDATIONS

The property 1043-27 is interpreted as being underlain by sedimentary rocks. No outcrop or geophysical anomalies exist on this property.

It is suggested that this property be retained for one year, pending results of drilling on adjacent properties.

Timmins, Ontario
October, 1981

J. MacPheron
for
P. Lickley

APPENDIX A

SCHEDULE OF CLAIMS

OGDEN-10

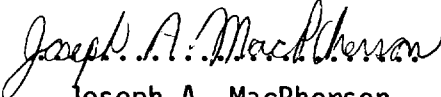
PROJECT 1043-27

<u>Claim Group</u>	<u>Township</u>	<u>Number</u>	<u>Claim Numbers</u>	<u>Recording Date</u>
1032-27	Ogden	11	P-610027	March 3, 1981
Ogden-10			P-610028	March 3, 1981
			P-610029	March 3, 1981
			P-610030	March 3, 1981
			P-610031	March 3, 1981
			P-610032	March 3, 1981
			P-610033	March 3, 1981
			P-610034	March 3, 1981
			P-610035	March 3, 1981
			P-610036	March 3, 1981
			P-610037	March 3, 1981

DECLARATION

I, Joseph A. MacPherson, of the City of Sudbury, in the Province of Ontario, with a mailing address of 255 Algonquin Blvd. West, Timmins, Ontario, do hereby declare:

1. I am a geologist employed by Amax of Canada Limited, with offices at 255 Algonquin Blvd. West, Timmins, Ontario.
2. I completed an honours B.Sc. programme (geology) in 1980 at Laurentian University in Sudbury, Ontario.
3. I did personally set forth the facts as outlined in this report and did conduct or supervise, or review, the work contained herein.
4. I do not have, nor do I expect to have, any interest in the properties held by Amax of Canada Limited.


Joseph A. MacPherson

Dated at Timmins, Ontario

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 _____

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

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

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____

Elevation accuracy _____
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) _____ Background Count _____
Height of instrument _____
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 _____

MAGNETIC

ELECTROMAGNETIC

GRAVITY

INDUCED POLARIZATION RESISTIVITY



Ministry of
Natural
Resources
Ontario

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

Ogden Trp.
489

Instructions: — Please type or print. **2.4346**
— If number of mining claims traversed exceeds space on this form, attach a list.
Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
— Do not use shaded areas below.

1043-27

The Mining Act

P-610027

Type of Survey(s) Geological Survey		Township or Area Ogden	
Claim Holder(s) Amax of Canada Limited		Prospector's Licence No. A-38495	
Survey Company Amax Minerals Exploration		Survey Dates (linecutting to office) Day Mo. Yr. 08 81	
Name and Address of Author (of Geo-Technical report) Peter Lickley, 255 Algonquin Blvd. West, Timmins, Ontario. P4N 2R8		Total Miles of line Cut	

Special Provisions Credits Requested

Instructions	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	20
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	610027	20			
	610028	20			
	610029	20			
	610030	20			
	610031	20			
	610032	20			
	610033	20			
	610034	20			
	610035	20			
	610036	20			
	610037	20			

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed	
Performed on Claim(s)	
NOV 27 1981	
Calculation of Expenditure Days Credits	
Total Expenditures	Total Days Credits
\$ <input type="text"/> ÷ 15 = <input type="text"/>	

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.

Report Completed	
Date of Report	Recorded Holder or Agent (Signature)
Nov. 24, 1981	<i>Rosemary Lickley</i>

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	
Joseph MacPherson	

RECEIVED
DEC 15 1981
MINING LANDS SECTION

RECORDED
 NOV 27 1981
 Receipt No.

For Office Use Only		Total number of mining claims covered by this report of work.	11
Total Days Cr. Recorded	Date Recorded	Mining Recorder	
220	Nov. 27/81	<i>J. Ford</i>	
Date Approved as Recorded	Branch Director		
June 16, 1982	<i>J. MacPherson</i>		



Mining Lands Comments

To: Geophysics

Comments			
<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature

To: Geology - Expenditures *Mr Kustra*

Comments			
<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date <i>May 14 / 82</i>	Signature <i>E. Kustra</i>

To: Geochemistry

Comments			
<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature

December 4, 1981

2.4346

Office of the Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P.610027 et al, in the Township of Ogden.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

J. Skura/bk

cc: AMAX Minerals Exploration
Timmins, Ontario
Attention: Rosemary Tittley



MINERALS EXPLORATION
(A Division of AMAX OF CANADA LIMITED)

255 Algonquin Blvd. West
Timmins, Ontario
P4N 2R8

Telephone: (705) 264-5247

Our File: 1043-27

November 24, 1981

RECEIVED

DEC 1 - 1981

MINING LANDS SECTION

Mr. F. W. Matthews,
Ontario Ministry of Natural Resources,
W 1617, Whitney Block,
Queen's Park,
Toronto, Ontario.
M7A 1W3

Dear Sir:

Enclosed herewith please find two (2) copies of a report on a geological survey which was carried out over the below listed contiguous mining claims located in Ogden township, along with their respective survey plans.

P-610027	P-610028	P-610029	P-610030
P-610031	P-610032	P-610033	P-610034
P-610035	P-610036	P-610037	

Please note that although Mr. Peter Lickley was the author of the report, Mr. Joseph MacPherson has signed it as the Project Geologist. Mr. Lickley was employed by Amax for the summer field season.

A "Report of Work" concerning the above survey has been filed with Mr. William Good, Mining Recorder for the Porcupine Mining Division.

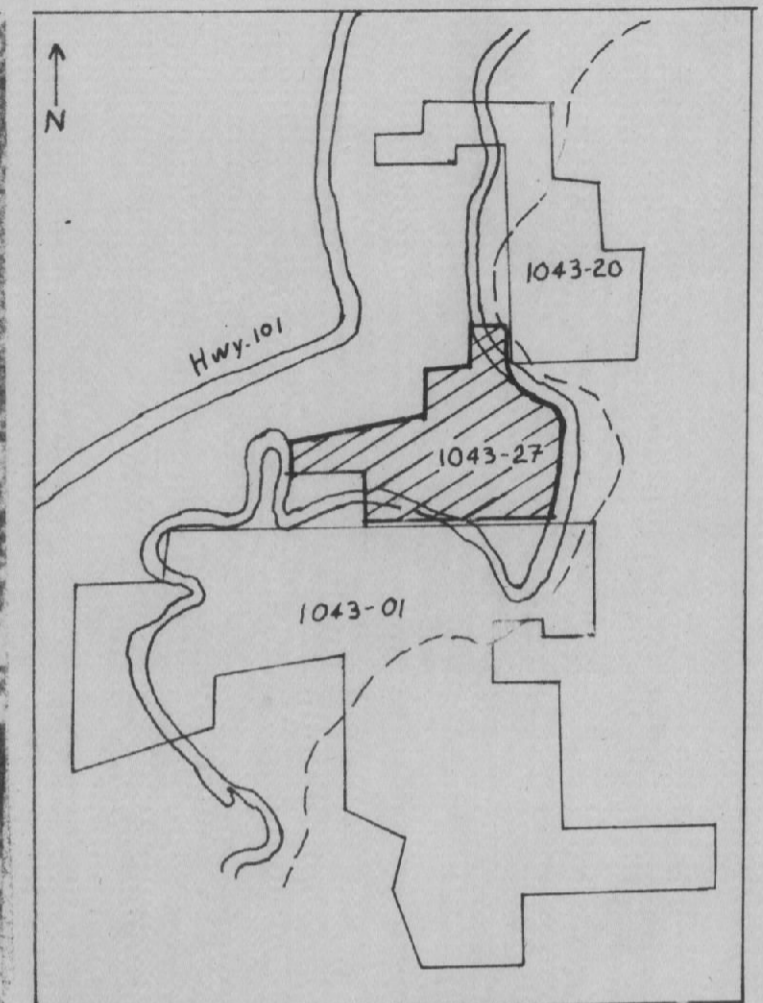
Thank you.

Yours truly,
AMAX OF CANADA LIMITED


Rosemary Tittley (Mrs.)
Land Recorder

Encs. 2

c.c. K. Clemis/E. Barclay, Toronto



INDEX MAP SCALE 1:50000

SYMBOLS

* NOTE: NO OUTCROP FOUND ON THE PROPERTY

- Claim post, located
- ⊠ Claim post, location assumed
- Topographical boundary
- ⊞ Swamp, Marsh
- == Paved road
- Gravel road
- Traverse line

AMAX MINERALS EXPLORATION

GEOLOGY SURVEY

OGDEN-10, 1043-27
Ogden Township
District of Cochrane

Scale 1:5000

NTS 42-A-6 Timmins Office
To accompany report by P. Lickley, May 1981

J. MacPherson 2.4346



42A06NW0211 2.4346 OGDEN



200