



42A06NW0140 2.4342 DELORO

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2.4342

REPORT ON A GEOLOGICAL SURVEY

RECEIVED

DEC 1 - 1981

MINING LANDS SECTION

DELORO-10

PROJECT 1043-26

NTS: 42-A-6

AMAX MINERALS EXPLORATION

Timmins, Ontario
October, 1981

P. Lickley

SUMMARY

During late May and early June, 1981, a geological survey was performed on eleven (11) claims near the west central edge of Deloro township, District of Cochrane, Ontario.

The property is interpreted as being underlain by two major cycles of volcanism of the Upper Deloro Group.

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

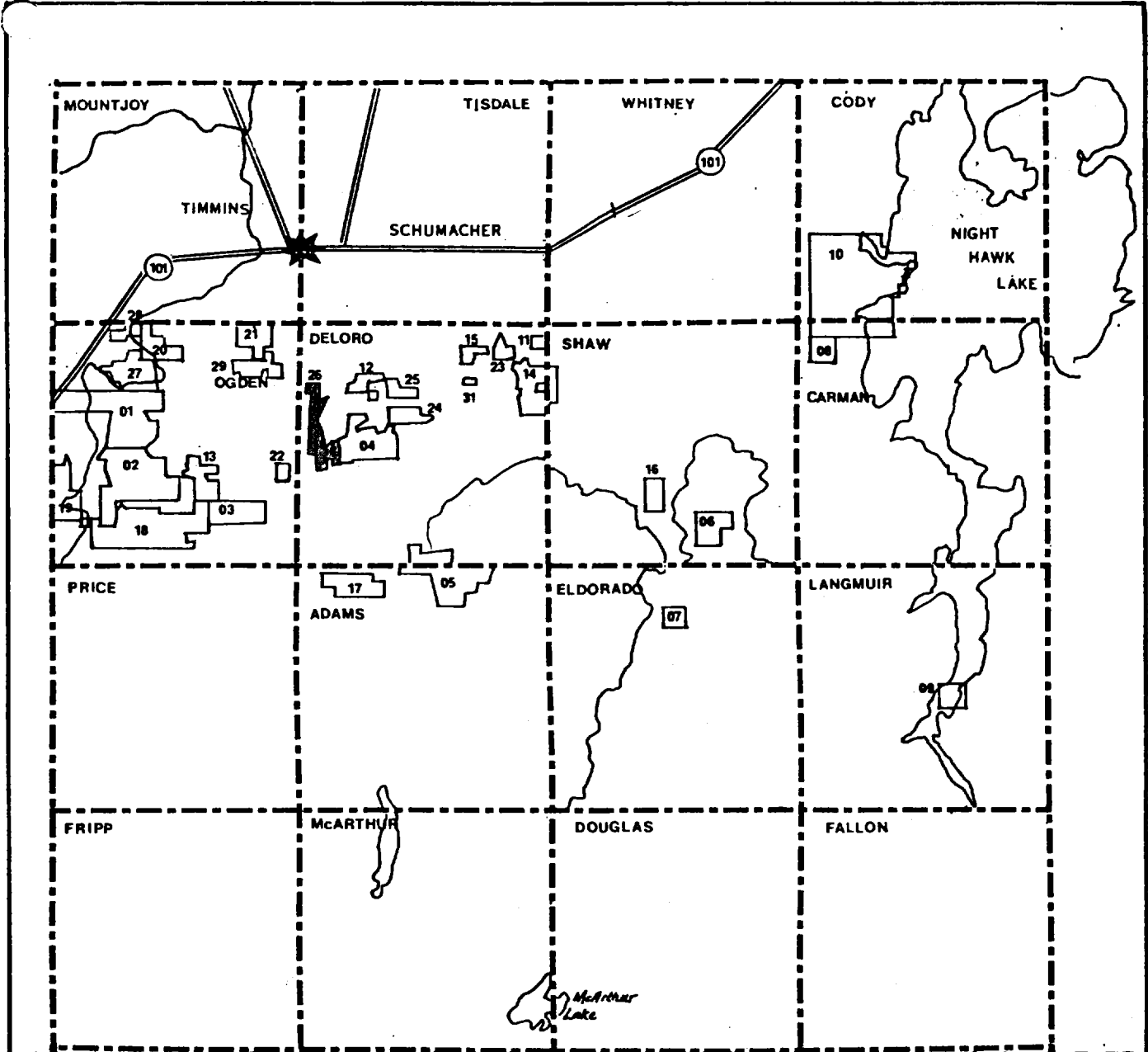
INTRODUCTION

During late May and early June, 1981, a detailed geological survey was carried out on a group of eleven (11) claims located in west central Deloro township, District of Cochrane, Ontario. The claim numbers are P-596283 to P-596293 inclusive, and are recorded in the name of Amax of Canada Limited.

The geology of the property is interpreted to be that of the Upper Deloro Group, south of the Destor-Porcupine Fault. There are no airborne anomalies on the property.

LOCATION AND ACCESS

The group of eleven (11) claims is located along the west central edge of Deloro township in the District of Cochrane, Ontario.



LOCATION MAP
 Project 1043-26

DELORO-10
 1" = 4 miles

Lot 12

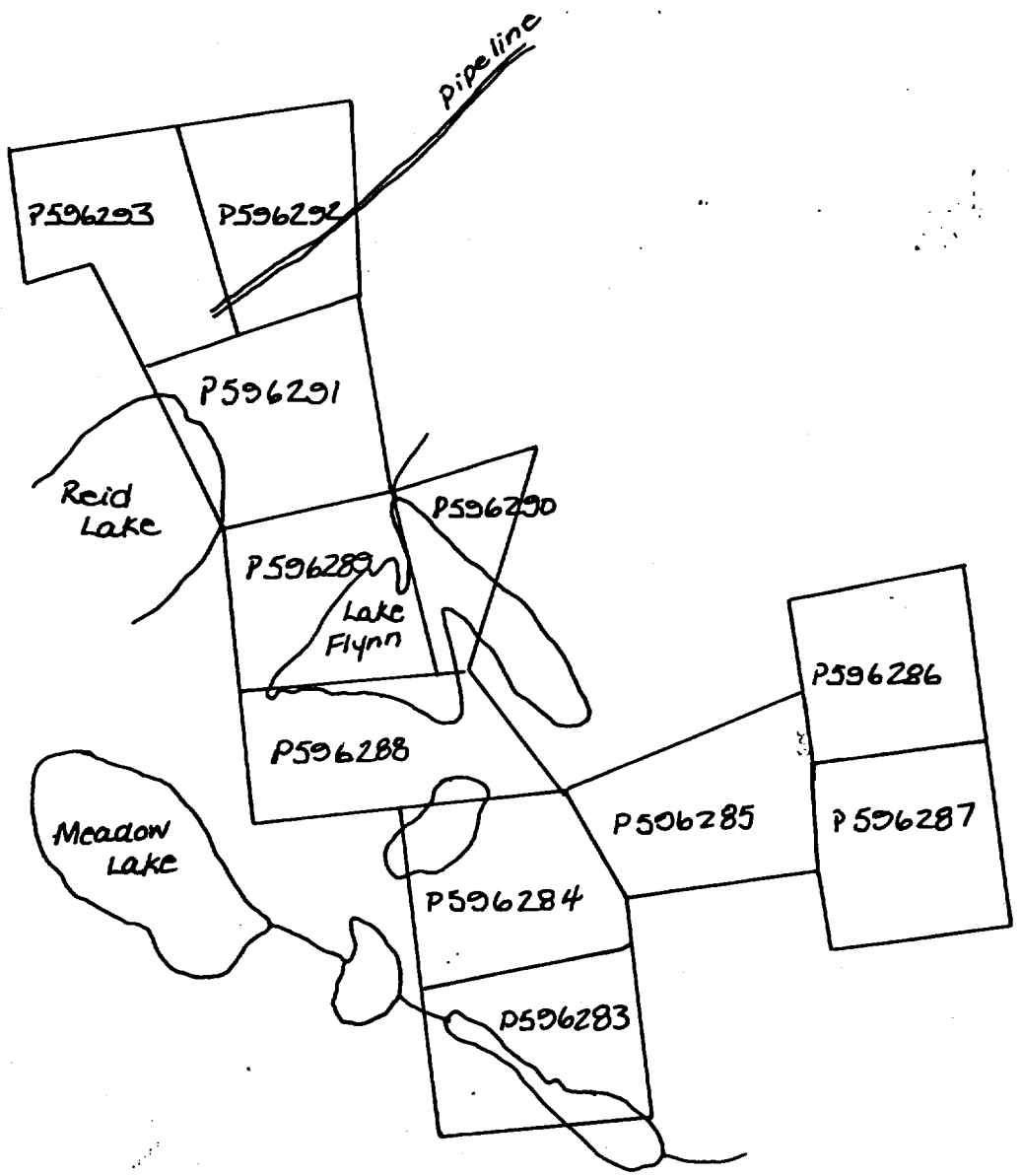
Lot 11

Lot 10

Ogden Twp
Deloro Twp.

3M

N



CLAIM MAP

Project 1043-26

DELORO-10

Deloro Township

1" = 1/4 mile

The property is easily accessible via Pine Street South, five (5) kilometres from Timmins. A bush road leads to the north end of the property and access to the southeast part of the claims is only possible by boat, across Wealthy Lakes.

TOPOGRAPHY AND RESOURCES

The relief on the property is moderate to high where sand ridges are present along the east edge of Wealthy Lakes and in the north claims area. Elsewhere on the claims the relief is low and is covered by swamp.

Vegetation consists of stands of jack pine and mature poplar on the sand ridges and thick tangled tag alders in the swamps.

Small lakes, swamps and beaver ponds provide excellent sources of water for diamond drilling.

PREVIOUS WORK

From Assessment Files

The geology of this area was mapped in 1964-65 by the O.G.S. and published in Preliminary Map No. P. 347.

The northern most claims area was worked by GEOEX Limited in 1974-75. Two drill holes were drilled 700 feet north of the claims. All drill assays showed nil gold values.

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

In the Field

One set of overburden trenches was located in the north east corner of claim P-596289. No outcrop or broken debris was associated with the trenches.

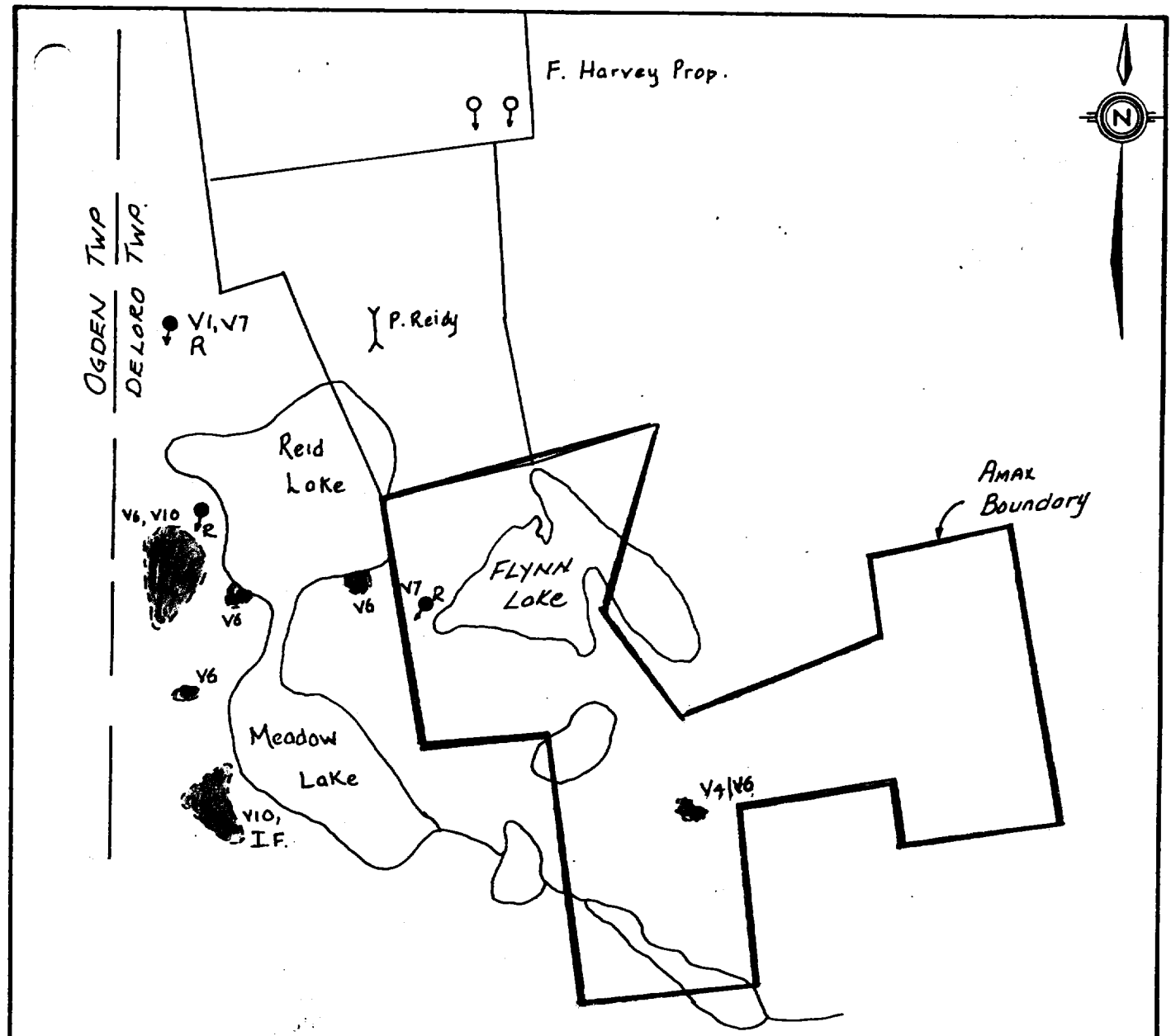
SURVEY METHOD

The survey was conducted by D. Messenger and P. Lickley during late May and early June, 1981. Airphotos at a scale of 1:30,000 and photo blow-ups at a scale of 1:5,000 were used as control. Pace and compass traverse lines were run along claim boundaries and at 125 metre intervals across the claims. A canoe was used to reach the south and eastern most portions of 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 serpentinized ultramafic flows.



LEGEND

- V1 Undifferentiated mafic volcanics
- V6 Andesite
- V7 Basalt
- V10 Agglomerate
- Diamond Drill Hole
- Y Trench
- () Outcrop Boundary

1. F. Harvey Property - 2DDH
 Encountered chert, chlorite schist & dacite andesite tuffs. No Au values.
- R: Ridgely Resources: 3DDH
 P: P. Reidy: 1 trench in IF.

AMAX MINERALS EXPLORATION
 PROJECT: DELORO (1043)
 GROUP : 1043-26, DELORO-10
 TWP : DELORO
 Survey : Compilation
 Date : August, 1981
 SCALE : 1" = 1/4 mile

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

Only two outcrops were found inside the claims area; a basalt outcrop in the extreme south west corner and an intermediate tuff outcrop on the extreme northern boundary. Outcrop mapped just north of the claims indicates that the area is underlain by intermediate tuffs which become increasingly interbedded with sediments and iron formations to the north.

Interpretation of the 1979 airborne magnetic survey data indicates that two major volcanic cycles of the Deloro Group may underlay the claims. The first cycle underlies the southern claims area and consists of a basal basalt unit of high magnetic expression which is overlain by a intermediate to felsic volcanic and/or a sedimentary unit of lower magnetic expression. The base of the second cycle is represented by relatively high magnetic response mafic volcanics located across the central claims area. These are overlain to the north by intermediate tuffs grading to interbedded tuffs and sediments of lower magnetic response and by end of cycle, iron formation and associated sediments of very high magnetic response.

CONCLUSIONS AND RECOMMENDATIONS

The property 1043-26 is interpreted as being underlain

by two volcanic cycles of the Upper Deloro Group. No geophysical conductors or geological anomalies exist on this property, therefore, it is recommended that no further work be done at this time.

Timmins, Ontario
October, 1981

J. MacPherson
for

P. Lickley

APPENDIX A

SCHEDULE OF CLAIMS

DELORO-10

PROJECT 1043-26

<u>Claim Group</u>	<u>Township</u>	<u>Number</u>	<u>Claim Numbers</u>	<u>Recording Date</u>
1043-26	Deloro	11	P-596283	January 29, 1981
Deloro			P-596284	January 29, 1981
			P-596285	January 29, 1981
			P-596286	January 29, 1981
			P-596287	January 29, 1981
			P-596288	January 29, 1981
			P-596289	January 29, 1981
			P-596290	January 29, 1981
			P-596291	January 29, 1981
			P-596292	January 29, 1981
			P-596293	January 29, 1981



1043-26

The Mining Act

494

2.4342

Instructions: - Please type or print.
 - 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.

P-596283 2.4342

Type of Survey(s) Geological Survey		Township or Area Deloro	
Claim Holder(s) Amax of Canada Limited		Prospector's Licence No. A-38495	
Survey Company Amax Minerals Exploration		Survey Dates (linecutting to office) Day 05 Mo. 81 Yr.	Total Miles of line Cut
Name and Address of Author (of Geo-Technical report) Peter Lickley, 255 Algonquin Blvd. West, Timmins, Ontario. P4N 2R8			

Special Provisions Credits Requested

Instructions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	20
	Geochemical	

Man Days

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

Airborne Credits

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

Expenditures (excludes power stripping)

Type of Work Performed	PORCUPINE MINING DIVISION RECEIVED NOV 30 1981
Performed on Claim(s)	
Calculation of Expenditure	
Total Expenditures	$\$ \quad \div 15 =$

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	596283	20			
	596284	20			
	596285	20			
	596286	20			
	596287	20			
	596288	20			
	596289	20			
	596290	20			
	596291	20			
	596292	20			
	596293	20			

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 DEC 15 1981
 MINING LANDS SECTION

RECORDED
 NOV 30
 Receipt No. ...

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 Nov. 27, 1981	Recorded Holder or Agent (Signature) <i>Rosemary Lickley</i>
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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
 255 Algonquin Blvd. West, Timmins, Ont. P4N 2R8

Date Certified

11/27/81

Certified by (Signature)

J. MacPherson

For Office Use Only

Total Days Cr. Recorded 220	Date Recorded Nov 30/81	Mining Record	Total number of mining claims covered by this report of work. 11
Date Approved as Recorded June 16, 1982	Branch Director <i>[Signature]</i>		



Mining Lands Comments

To: Geophysics

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geology - Expenditures

Mr Kustra

Comments

Approved

Wish to see again with corrections

Date

May 13/82

Signature

CKustra

To: Geochemistry

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-7380)

December 7, 1981

2.4342

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.596283 et al, in the Township of Deloro.

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: 1043-26

November 27, 1981

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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 Deloro township, along with their respective survey plans.

P-596283	P-596284	P-596285	P-596286
P-596287	P-596288	P-596289	P-596290
P-596291	P-596292	P-596293	

Please note that although the report was written by Mr. Peter Lickley, it has been signed by the Project Geologist, Mr. J. MacPherson as Mr. Lickley was only employed 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.

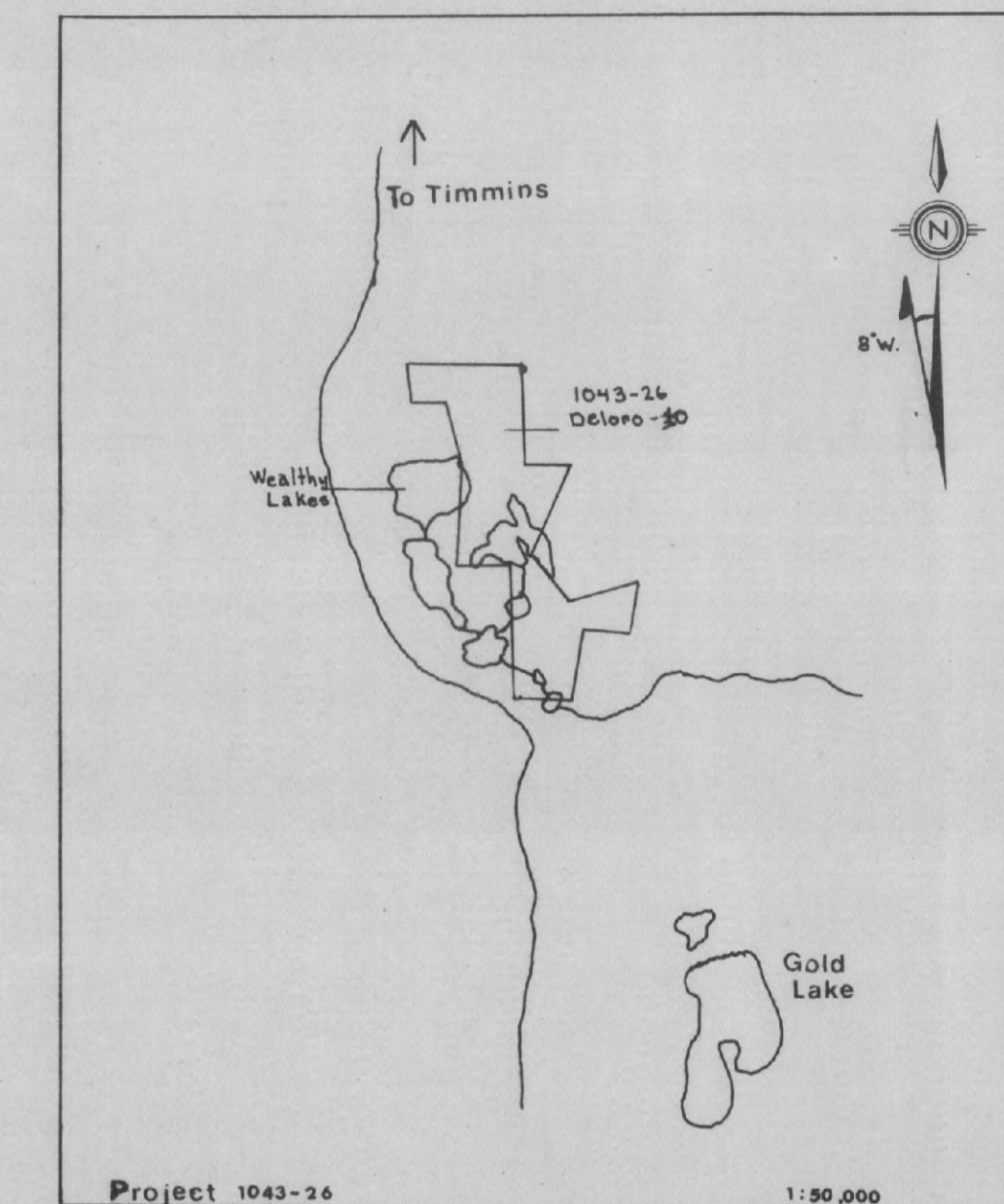
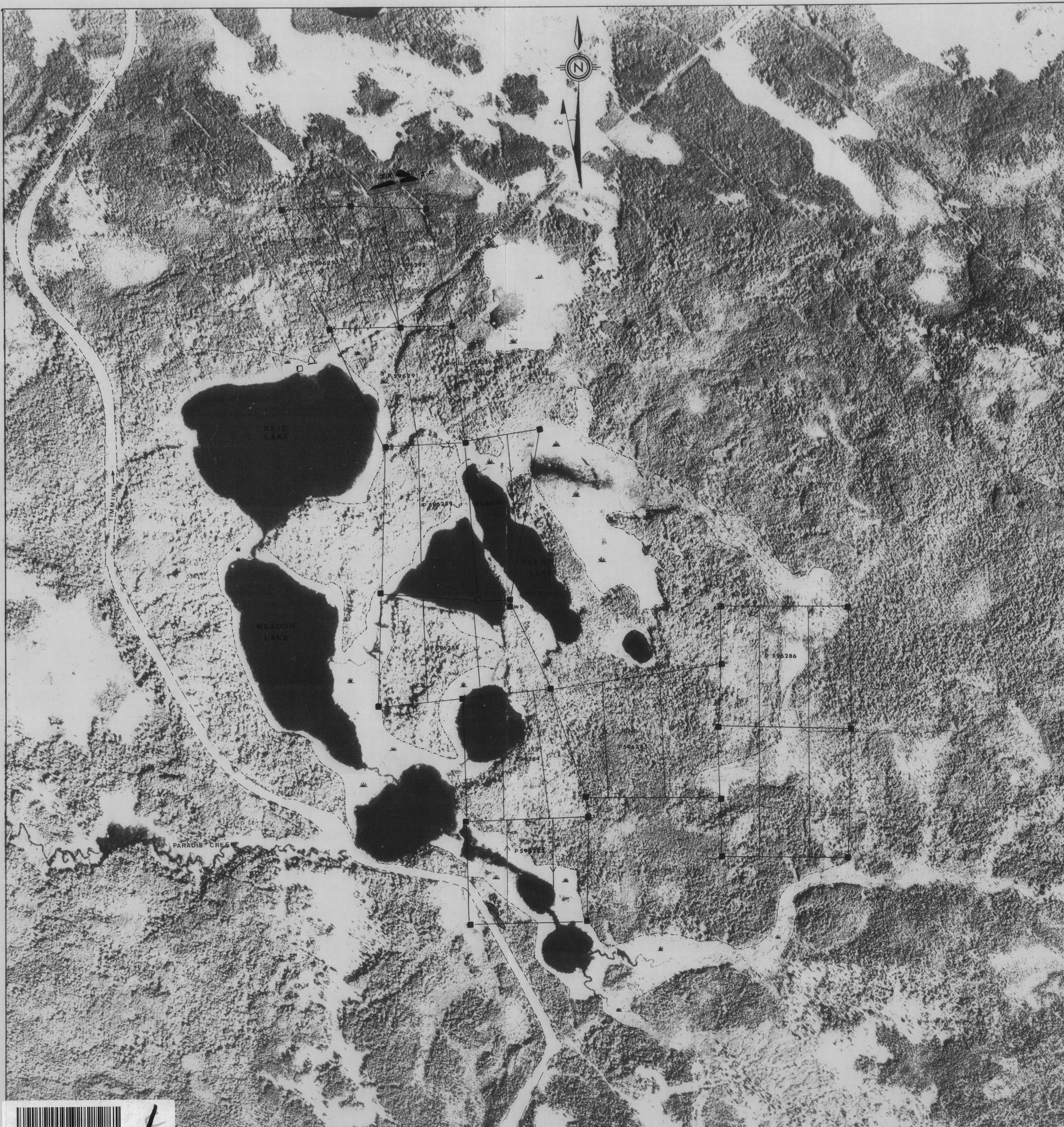
Thank you.

Yours truly,
AMAX OF CANADA LIMITED

Rosemary Pittley (Mrs.)
Land Recorder

Encs. 2

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



LEGEND

- VOLCANIC**
- V₇ BASALT
 - V_g INTERMEDIATE TUFF
- SEDIMENTS**
- S UNDIFFERENTIATED SEDIMENTS
 - IF IRON FORMATION
- SYMBOLS**
- Foliation - inclined dip
 - Foliation - dip unknown
 - Swamp
 - Bedding - inclined dip
 - Outcrop Boundary
 - Claim post
 - Claim post location
 - WP Witness post
 - Traverse line (direction indicated)
 - Gravel road
 - Bush road
 - Slash Boundary

AMAX MINERALS EXPLORATION

Geology Survey

DELORO - 10, 1043-26

Deloro Township

District of Cochrane

Scale 1:5000

NTS 42/A16 Date: Aug 4/81

Timmins Office Mapped by: J. MacPherson

To Accompany Report by: P. Lickley

J. MacPherson