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REPORT ON A GEOLOGICAL SURVEY

RECFIVED

DEC 1 - 1981

MINING LANDS SECTION

OGDEN-11

PROJECT 1043-28

NTS: 42-A-6

AMAX MINERALS EXPLORATION

Timmins, Ontario October, 1981

P. Lickley

SUMMARY

During July of 1981, a detailed geological survey was performed on five (5) claims near the north west corner of Ogden township, District of Cochrane, Ontario.

The property is interpreted as being underlain by sediments.

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

INTRODUCTION

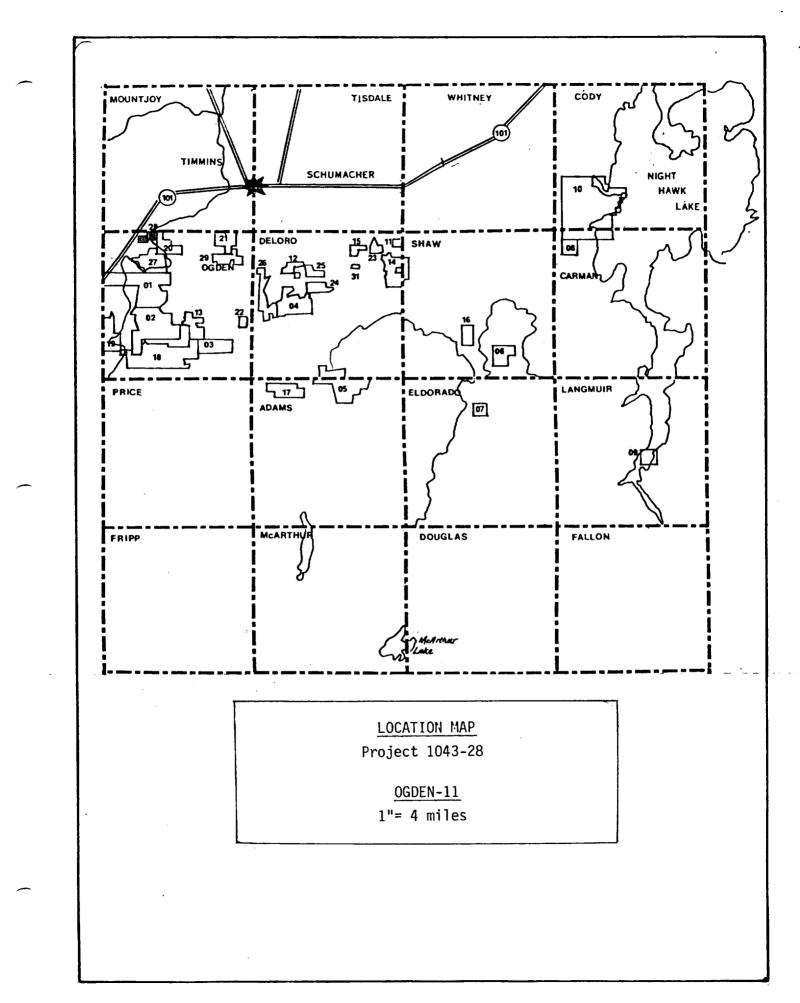
During July of 1981, a detailed geological survey was carried out on a group of five (5) claims located in the northwest corner of Ogden township, District of Cochrane, Ontario. The claim numbers are P-595962 to P-595966 inclusive and are recorded in the name of Amax of Canada Limited.

This area was not covered by the 1979 Aerodat airborne geophysics survey though the Government Regional Magnetic Survey indicates that sedimentary rocks underlie the claims.

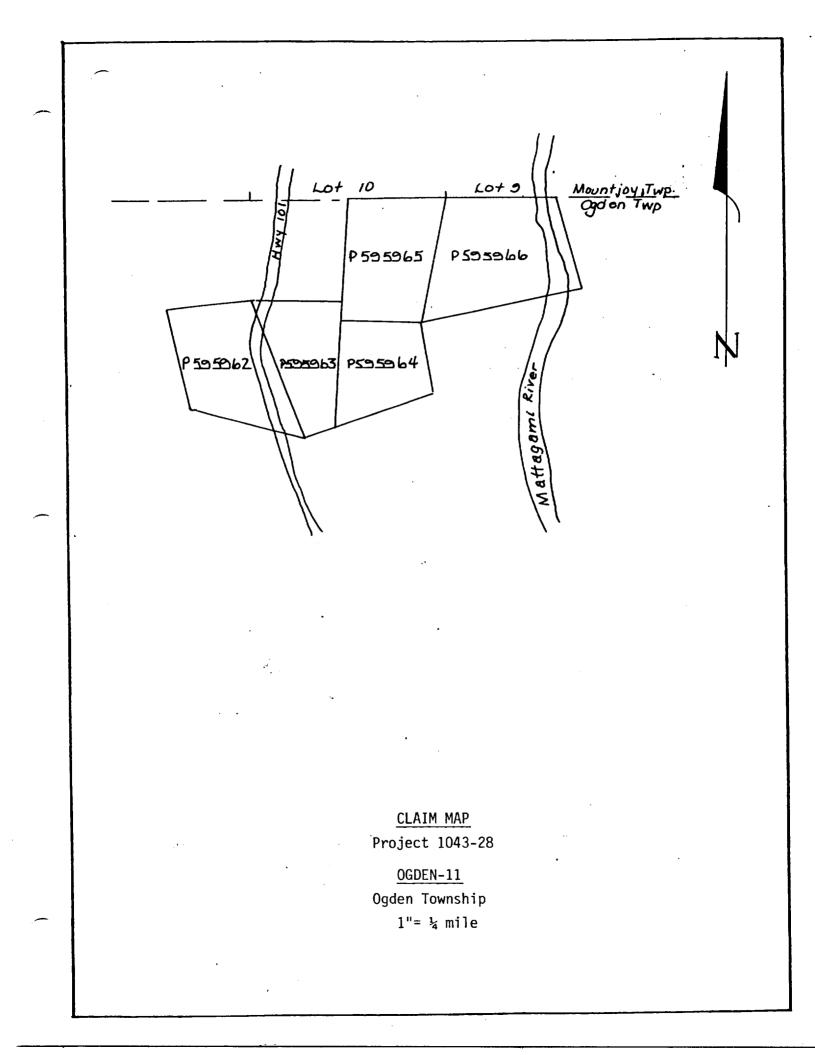
LOCATION AND ACCESS

The property is located near the north west corner of

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Ogden township, District of Cochrane, Ontario.

The property lies about five miles west of the city of Timmins along highway 101. The highway crosses the west end of the claims and the Mattagami River borders the claims to the east.

TOPOGRAPHY AND RESOURCES

The relief on the property is low. The topography slopes east toward the Mattagami River from dry sandy ground to low swamp and marsh.

Vegetation consists of mature poplar and jack pine stands in the west and mixed spruce, pine and alder in the lower swampy areas by the river.

The Mattagami River would provide the most accessible source of water for a diamond dirll program.

PREVIOUS WORK

No evidence of previous work was found in the assessment files at the Mining Recorder's Office in Timmins or on the field.

SURVEY METHOD

The geological survey was conducted by P. Lickley and

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

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Peridotite, olivine spinifex, carbonate and talc alteration

M. Hull during early July of 1981. Air photographs at a scale of 1:30,000 and air photo blow-ups at a scale of 1:5,000 were used as 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 serpentinized 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.

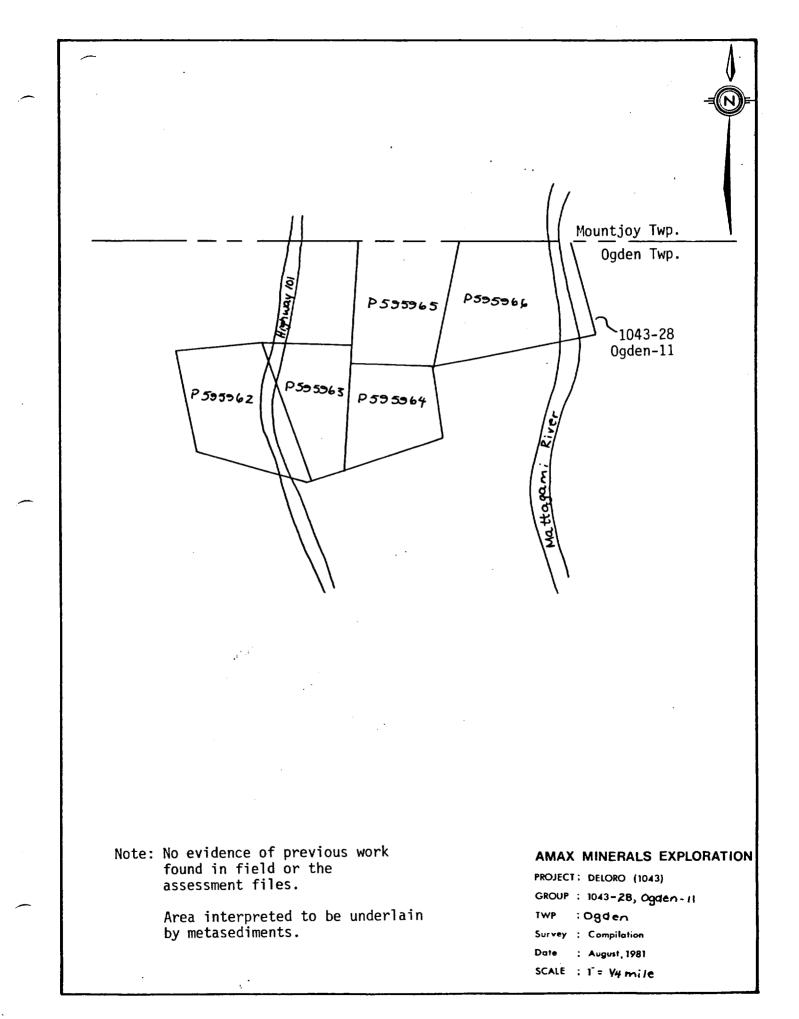
PROPERTY GEOLOGY

No outcrop was found on the claims but interpretation of the Government Regional Magnetic Survey indicates that the area is underlain by sediments.

CONCLUSIONS AND RECOMMENDATION

The property, 1043-28 is interpreted as being under-

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lain by sediments. No outcrop or geophysical anomalies exist on this property.

It is suggested that this property be dropped.

J.MacPhysicon P. Lickley

Timmins, Ontario October, 1981

SCHEDULE OF CLAIMS

OGDEN-11

PROJECT 1043-28

Claim Group	Township	Number	Claim Numbers	Recording Date
1043-28 Ogden-11	Ogden	5	P-595962 P-595963 P-595964 P-595965 P-595966	March 3, 1981 March 3, 1981 March 3, 1981 March 3, 1981 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.
- 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. Machinson Joseph A. MacPherson

Dated at Timmins, Ontario

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Amax_01	f Canada Limited	1		Burney Dates	<u>//:</u>	A-384		
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I hereby certify that I have a	personal and intimate kr	owledge of	the facts set fo	rth in the Report	of Work anne	xed hereto, having	performed tr	le work
or witnessed same during and	a/or atter its completion a	and the ann	exed report is t	rue.		-	I.	

Name and Postal Address of Person Certifying

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GEOCHEMICAL SURVEY – PROCEDURE RECORD

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Ministry of Natural Resources

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GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL Ontario TECHNICAL DATA 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) <u>Geological Survey</u> Toumshin or Area Oaden		Amax M	Author of Report <u>Peter LICKIEY</u> Address of Author <u>255 Algonquin Blvd. West, Timmins, Ont</u>	Covering Dates of Survey July 1981 (linecutting to office)	Total Miles of Line Cut	SPECIAL PROVISIONS CREDITS REQUESTED Geophysical Per claim	ludes	line cutting) for first	ENTER 20 days for each –Other –Other 20 days for each additional survey using Geological 20	Geochemical	<u>AIRBORNE CREDITS</u> (Special provision credits do not apply to airborne surveys) MagnetometerElectromagneticRadiometric (enter days per claim)	DATE: 11/24/81 SIGNATURE: J. Men of Report or Agent		Previous Surveys	L :			
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			Values expressed in: per cent	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 Mathod	Analytical Method	Reagents Used	Commercial Laboratory (tests) Name of Laboratory	Extraction Method	Reagents Used	General					
	Numbers of claims from which samples taken		Type of Samples (Nature of Material)	Average Sample Weight	Call Horizon Compled	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					

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	<u>GROUND SURVEYS</u> – If more	than one survey, sp	- If more than one survey, specify data for each type of survey	oe of survey	
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CNI	Diurnal correction method				
VW	Base Station check-in interval (hours).	(hours)			
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ETIC	Coil configuration				
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VITY	Corrections made				
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SELF POTENTIAL

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Instrument	- Range
Survey Method	•
Corrections made	

RADIOMETRIC

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Energy windows (levels)	
	.Background Count
Size of detector	
Overburden	
(type, depth – include outcrop map)	

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

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Accuracy.	Instrument	Type of survey	
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MRBORNE SURVEYS

Additional information (for understanding results) _____

Type of survey(s)	
Instrument(s)	
(specify for each type of survey)	
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(specify for each type of survey)	
Aircraft used	
Sensor altitude.	
Navigation and flight path recovery method	
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-Over claims only-

Miles flown over total area_

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December 7, 1981

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.595962 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 <u>Attention</u>: Rosemmery Tittley 2.4345



MINERALS EXPLORATION (A Division of AMAX OF CANADA LIMITED)

255 Algonquin Blvd. West Timmins, Ontario P4N 2R8

Telephone: (705) 264-5247

Our File: 1043-28

November 24, 1981

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

RECEIVED

DEC 1 - 1981

MINING LANDS SECTION

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 claim located in Ogden township, along with their respective survey plans.

> P-595962 P-595963 P-595964 P-595965 P-595966

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

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

Rosemai

Rosemary Nittley (Mrs.) Land Recorder

Encs. 2

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



