

42A06NW0901 2.3798 OGDEN

2.3798

010

KECHINEL

MAR 2 5 1981

MINING LANDS SECTIO:

REPORT ON A GEOLOGICAL SURVEY

**DELORO** 

OGDEN-2

PROJECT 1043-02

NTS: 42-A-6

AMAX MINERALS EXPLORATION
Timmins, Ontario

#### SUMMARY

During August and September, 1980, a geological survey was performed on a group of eight (8) claims in the west central part of Ogden township, District of Cochrane, Ontario.

The property appears to be underlain by sediments, with no economic mineralization present in them.

The horizontal loop survey carried out by Amax in early 1980 outlined the presence of a conductor which was not explained by the geology survey due to lack of outcrop exposure.

A hole was then drilled on the conductor and graphite in argillite was encountered, explaining the conductor.

It is recommended that no further work be done on the claims.

#### INTRODUCTION

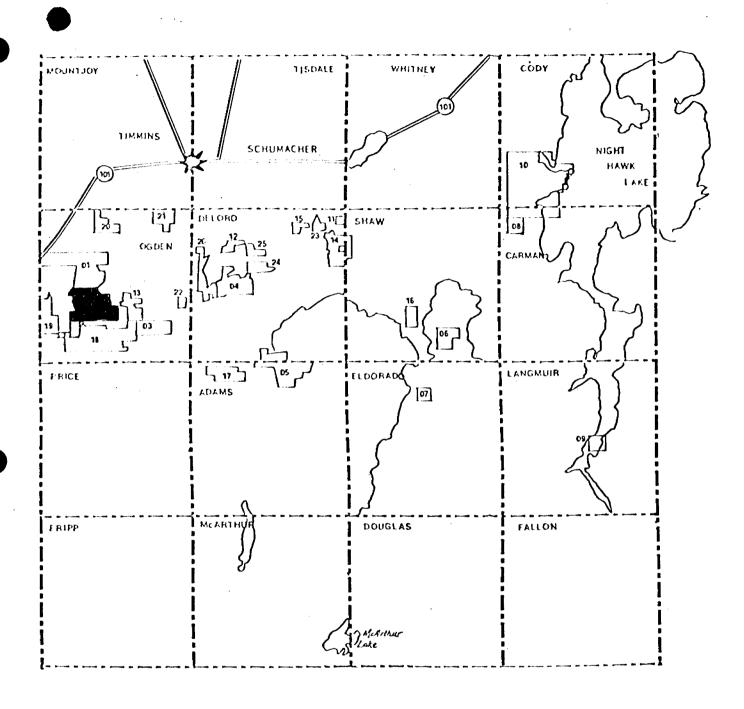
A geological survey was carried out on a group of eight (8) claims in Ogden township during late August and early September of 1980. The claims are recorded in the name of Amax of Canada Limited.

These claims cover several air electromagnetic anomalies uncovered during a helicopter survey by Amax in the fall of 1979.

Detail ground geophysical surveys consisting of magnetometer and horizontal loop (high and low frequency) were carried out during the early part of 1980.

#### LOCATION AND ACCESS

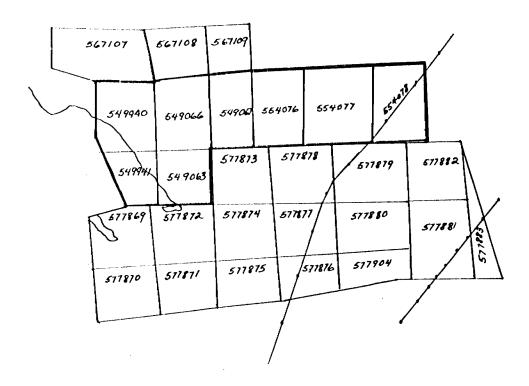
The group of eight (8) claims surveyed is part of a larger group of twenty-seven (27) claims situated in the west central part of Ogden township in the District of Cochrane, Ontario.



# LOCATION SKETCH

1043-02, Ogden-2 Ogden Township

Scale: 1"=4miles



Area of survey

CLAIM SKETCH 1043-02, Ogden-2

Scale: 1:30,000

Access to the property is possible by a combination of gravel and bush roads. A good gravel road leads south from Timmins to the power station at Wawaitan Falls. Approximately eight (8) miles south along this road, a bush road leads east to the property, a distance of approximately 4900 feet. A short pace and compass traverse of 500 feet at azimuth 45° is then necessary to reach the grid.

#### TOPOGRAPHY AND RESOURCES

The relief on the property is very low. It is underlain mainly by clay and some sand. Black spruce and some birch are found on the more sandy areas; these are scarce. The property is mainly marshy, with scattered black spruce and alders, quite thick in places.

Water sources are from ground seeps or slight depressions in the marshy areas, forming small ponds.

#### PREVIOUS WORK

### In the Field:

Evidence of previous drilling was found in the field. These areas are shown on the accompanying geological map. Casing was found at both these sites, but no core.

## From Assessment Files:

Most of the conductors in the immediate area have been drilled at one time or another, although in some cases records were not kept and assays were not performed. It was on this basis that the decision was made to drill the conductor.

#### SURVEY METHOD

The survey was performed by J. MacPherson and P. DeGagne in late August and early September 1980. Air photos at a scale of 1:30,000 and the Amax detail geophysical grid were used as control. Off the grid traverse lines were run using pace and compass at 400 foot intervals across the remaining claims.

#### GENERAL GEOLOGY

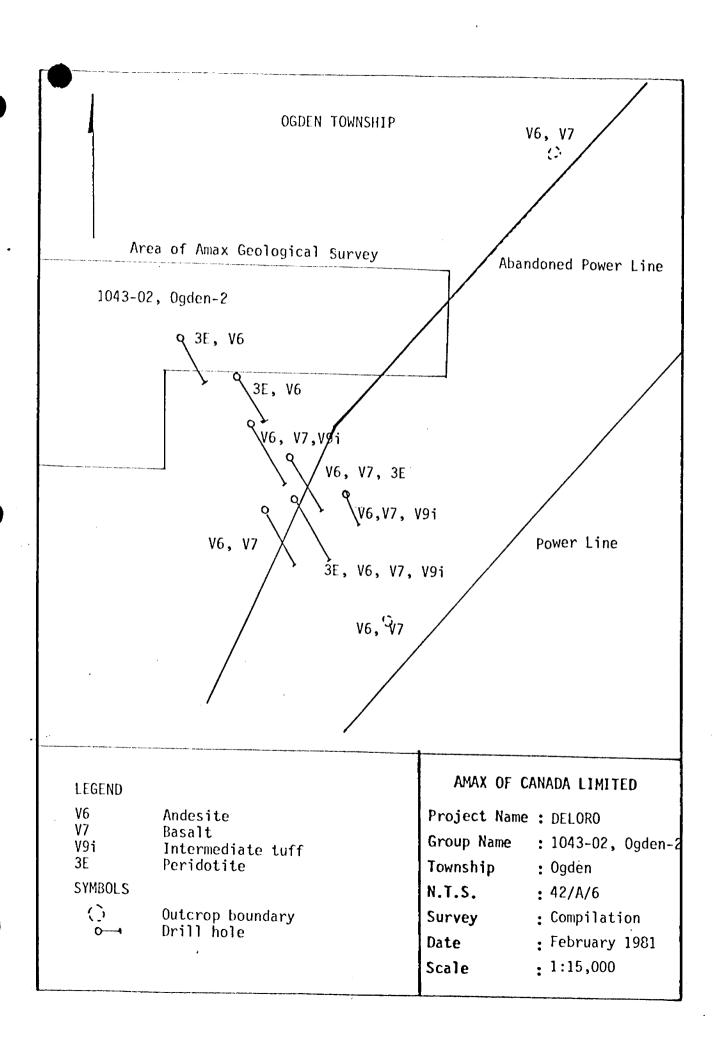
The volcanic rocks of the Timmins area consist of the older Deloro Group and the younger overlying Tisdale Group.

The Deloro Group is confined to a large domal structure centred in Shaw township. It grades from andesite to 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 and the Shaw Dome to the south.

#### PROPERTY GEOLOGY

The geology was unknown due to a lack of outcrop during the geological survey. The conductor on the grid was drilled by Amax after the geology survey and from this a portion of the geology is known. The rock units encountered in the hole were all sediments, and consisted of interbedded cherty sediments, sediment breccia, greywacke and argillite with graphite (the conductor).



# 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

### CONCLUSIONS AND RECOMMENDATIONS

The geophyscial conductor was explained by the presence of graphite in argillite, found by drilling.

It is recommended that there be no further work done on these claims.

Respectfully Submitted,

Timmins, Ontario February 1981 J. MacPherson Geologist

g. A. Mac Merson

**GEOPH** 



2A06NW0901 2.3798 OGDEN

900

RECLUE

4R 2 5 1980

MNING LANGUE TO THE MINING

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.

MINING CLAIMS TRAVERSED List numerically 549940 -549941 • 549063 • 549066 • 549067 · P 554076 • .....554077. 

8

Type of Survey(s)	Geological	
Township or Area	Ogden	MINING CLAIM
	Amax of Canada Limited	List nur
	Amax Minerals Exploration	(prefix)
Author of Report	J. MacPherson	(pictix)
	255 Algonquin Blvd. W., Timmins.Ont August - September 1980	p
	August - September 1980 (linecutting to office)	P
SPECIAL PROVISION		P P
CREDITS REQUESTED	Electromagnetic	P
ENTER 40 days (included line cutting) for first	Magnetometer	P
survey.  ENTER 20 days for each	Radiometric	P
additional survey using same grid.	Geological20	P
ma pulming distribution him in hour parties of the hours	Geochemical  pecial provision credits do not apply to airborne surveys)	
	ectromagnetic Radiometric (enter days per claim)	
DATE: March 13, 198	1 SIGNATURE A More Merson Agent	
Res. Geol.	Qualifications	
Previous Surveys File No. Type	Date Claim Holder	
	\ \(\):	
<b>]</b>	\\\	
		TOTAL CLAIMS_
1 1		

OFFICE USE ONLY

## GEOPHYSICAL TECHNICAL DATA

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

Number of Stations		Number o	f Readings	
Station interval		Line spacing		
Profile scale				
Contour interval				
Instrument		***************************************		
	constant			
Diurnal correction	method			
Base Station check	-in interval (hours)			
Base Station locati	on and value			
Instrument				
•	☐ Fixed transmitter			
	ed			
rarameters measur	VU		· · · · · · · · · · · · · · · · · · ·	
Instrument				
		1		
	and location			
Elevation accuracy	Policial No. of Mark 1 19 19 19 19 Advances and the Section of the			
Instrument				
Method  Time	Domain	☐ Frequency Domain		
Parameters - On ti	mc	Frequency		
- Off t		Range		
<b>:</b>	y time			
– Integ	ration time			
j .				
•				
Time of electrode	,			

INDUCED POLARIZATION

