



32D04SW0201 63.3963 MCELROY

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*MEMORANDUM*


**MEMORANDUM**

TO: File

DATE: December 1, 1980

FROM: J. Sugden

 SUBJECT: Mirado Nickel Mines Ltd. Project  
McElroy and Catherine Townships, Ontario

This gold property consisting of 12 mining claims and a Licence of Occupation is located 8 miles southwest of the town of Larder Lake, Ontario in south-central McElroy Township about  $\frac{1}{2}$  mile west of the Misema River. However, the only road access is from Highway 112, 10 miles to the west. The property is 22 miles by road from the town of Kirkland Lake.

### History

(1) Yama Gold Mines Ltd. held this property from 1937 to 1943. After an initial surface drilling program Yama sank a 3 - compartment vertical shaft to 540 feet and established 4 levels at the 125-, 250-, 375- and 500 foot horizons. For 15 months between late 1941 and early 1943, a small mill (50-75 daily tons) was operated with a total output of 22,250 tons from which 3032 ounces of gold and 946 ounces of silver were recovered. This entire production came from narrow shrinkage stopes in what is now known as the North Zone near the shaft.

(2) In 1943, Yama Gold Mines was taken over by Cathroy Larder Mines Ltd. The latter company concentrated on the area southwest of the shaft and delineated a second gold-bearing zone known as the South Zone by surface drilling in 1945. When work was suspended in August, 1948, more than 15,000 feet of surface drilling and 17,000 feet of underground drilling had been done. Underground work was confined to the 250- and 500 foot levels, including a raise between these levels and the connection of the 250- foot South Zone sublevel to the shaft. When Cathroy Larder discontinued all work in August, 1948, the total underground workings included more than 4,000 feet of crosscutting, about 8,000 feet of drifting 720 feet of raising and 1,723 feet of lineal stoping and stope preparation. There was no gold production by Cathroy Larder.

(3) Mirado Nickel Mines Ltd. optioned the property from Cathroy Larder Mines Ltd on December 12, 1960. The workings were pumped out and re-mapped. Considerable diamond drilling was done, both on surface and from underground but no additional drifting or crosscutting was carried out by Mirado.

Between November 1961 and November, 1963, Mirado Nickel completed the following drilling program:

Surface Drilling - 23,065 feet (South Zone only)

Underground Drilling - 5760 feet (north zone)

9083 feet (south zone)

14,843 feet

(4) Broulan Reef optioned the property for a short period in 1963 and did 5,125 feet of surface drilling with negative results in the South zone.

The property has remained idle from November, 1963 until 1980.

(5) Early in 1980, Amax optioned the property from Mirado Nickel Mines Ltd. and gained access to a large volume of technical data from previous work. These reports, maps and sections were studied and re-compiled to interpret the various drilling programs on a single set of level plans and sections.

After some preliminary survey work to make an accurate correlation with the previous surveys and the shaft location, picket lines were cut and geophysical surveys (magnetic, electro magnetic and induced polarization) were completed in June, 1980.

A surface drilling program was completed in late October, 1980 by St. Lambert Drilling Co. (B.Q. Core). Twenty four holes were drilled, totalling 13,481 feet, divided as follows:

<u>Zone</u>	<u>Feet</u>	<u>Number of Holes</u>
North	3,207	9
South	10,274	15
	<u>13,481</u>	<u>24</u>

Summary of Results of All Work:

North Zone

Gold occurs with abundant pyrite in a number of narrow parallel steeply-dipping shear fractures, associated with minor quartz-carbonate filling. The gold values are erratic but samples may carry up to more than one ounce per ton over a six-inch width. All the Yama production was obtained from this type of deposit. The average recovery of 0.15oz/ton represents a heavy dilution over the stoping widths most of the Yama stoping was done above the 250 level, but there is evidence that the gold-bearing structures extend to the 500-foot level and there is no obvious geological limitation to their vertical dimension. Five parallel stopes on the 250 foot level have been mined over a total zone width of 600 feet across the strike. The total length of the stoped zones is about 550 feet along the strike. The average dip is about 85° N. The grade in places may be attractive but

but the horizontal continuity of individual zones and the potential tonnage is very limited.

### South Zone

The zone lies between 1200 and 1600 feet southwest of the shaft. It has been traced by drilling for a strike length of at least 1800 feet. The most favourable host rock is an agglomerate with mafic fragments but intermediate lava may be equally favourable.

Low gold values (up to 0.02 oz/ton) are widespread within this broad zone and there are scattered intersections of considerably higher grade. Rare sections assaying one ounce or more indicate that visible gold likely occurs very sparingly. The best indicator of higher gold values is the local abundance of pyrite. Although the drilling has tested the zone to relatively shallow depths, mainly less than 400 feet below the surface, there seems to be no geological reason to expect much change with depth.

Horizontal and vertical continuity of the better grade sections has been difficult to establish from the drilling to date. The attitude of these pyritic gold-bearing seams is not well established yet but the writer believes that their average dip is nearly vertical.

A program of more closely-spaced drilling in the best-known portion of the South Zones is required in order to evaluate the matter of continuity and average grade.

### FUTURE PLANS

A program of closely-spaced drilling will be started early in January 1981. The program, totalling 15,000 feet, will concentrate on the most promising part of the South Zone, and, in conjunction with previous drilling, should outline individual mineralized shoots or bodies within the zone. Depending on their depth, size and configuration, these mineralized bodies will be further evaluated underground either through a decline from surface or from the existing shaft and cross cuts. The estimated cost of the drilling program is \$275,000.

If the drilling program indicates that the main mineral concentration lies between the surface and 250 foot level a decline ramp to the 125 foot level might be a practical way to investigate and bulk sample the zone. The cost of such a program including the sampling is \$1,500,000.

Should the main mineral concentration occur near or below the 250 foot level, dewatering and rehabilitating the old workings will be undertaken in order to evaluate the zone. This program which would include crosscuts



to the zone, drifting and raising on it to obtain a bulk sample and underground diamond drilling is estimated to cost 2.25 million. About \$1.5 million of this would be spent in the dewatering and rehabilitation of the old workings, construction of a headframe and service buildings, installation of hoist and pumps, and the balance on evaluation of the deposit.

FJS/jw

F.J. Sugden



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SUMMARY REPORT

MIRADO PROJECT

January 1, 1981 to March 31, 1981

1981 Drilling Program

Drilling was resumed in mid-January on this option at the site of the former Cathroy Larder Mines Ltd. in Catherine Township, Ontario.

Twenty-six holes were drilled between January 18 and March 31, 1981 (D.H. 1050-25 to 1050-50 inclusive), totalling 13,944 feet. These holes are located on the accompanying plan at a 50 foot scale except D.H. 1050-47 which appears only on the 200 foot scale key-map. Logs of these holes and the assay results which are currently available are submitted with this summary of work accomplished.

The winter's program was planned to drill a series of parallel holes, all bearing S35W, to explore the Cathroy-Mirado "South Zone" in considerable detail to an average depth of about 400 feet. One hole (D.H. 1050-43) was started just south of the shaft collar to test the "North Zone" also. The summer drilling in 1980 was mainly a reconnaissance program across the property at a section interval of about 200 feet with a few short holes to test surface showings on the North Zone.

The drilled part of the property includes mainly intermediate pyroclastics including agglomerate and tuffs with some dacitic to andesitic flows. There are scattered, relatively narrow feldspar porphyry dykes or basic flows. D. H. 1050-47 (shown only on the 200 foot scale plan) was drilled towards the south property boundary to test a large magnetic anomaly. The entire hole intersected only peridotite and olivine-rich pyroxenite.

The assay results are not complete at present. However, there are widespread but scattered low to medium grade gold values associated with pyrite aggregates and seams within most of the volcanic units, particularly in the agglomerate and lapilli tuffs. Quartz veins or fracture zones are very rare throughout but carbonate alteration is very strong in some sections, with no obvious relation to the occurrence of gold values. No particular gold-bearing zone appears to be traceable continuously for much more than 100 feet. There are few erratic high gold values.

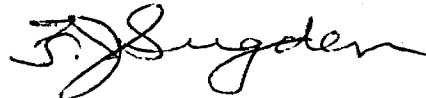
FUTURE PLANS - (April 1 - June 30, 1981)

The original drilling program of 15,000 feet has been expanded modestly to 16,500 feet and it is expected that this footage will be completed by April 12, 1981. On completion of the field program, and receipt of assay results, the data will be plotted and studied and recommendations will be made on the next stage of the program. These studies will probably require several months to complete.

Exploration work in 1980 and 1981 centered on the gold deposit leaving parts of the northern-most claims of the group virtually un-explored. Starting in May this ground will be subjected to geophysical surveys and the geology will be mapped. Any targets found will probably be tested later in the field season.

April 9, 1981

Respectfully submitted,



J. Sugden, Consultant  
Amax Minerals Exploration

Enclosures

Location Plan - Scale: 1" = 200'

Drill hole Plan - Scale: 1" = 50'

Drill logs - Holes 25 to 50

Assay Summaries - Holes 25 to 50



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REPORT ON SUPPLEMENTARY  
MAGNETIC SURVEY

MIRADO OPTION  
1050-01

AMAX MINERALS EXPLORATION

JUNE 15, 1981

B. GROVES  
GEOPHYSICIST

MIRADO GROUND MAG.

During the period May 8 to 15, 1980, a ground magnetometer survey was performed by Geola Ltee of Val d'Or, Quebec, over grid lines south from tie line 30+00N. In April, 1981, lines 8E and 16W were extended north from tie line 30+00N and magnetometer surveying completed over these line extensions.

The magnetic coverage of the northern grid extension comprised 2 line miles of surveying. Total magnetic field readings were taken at 50 feet intervals using a Geometrics G816 proton precession magnetometer which has a sensitivity of 1nT. A total of 229 stations were read. The intersection of lines 30+00N and 0 was used as base station during the survey. Readings were taken at this station at the completion of each line to enable the correction of data for diurnal variation.

Total magnetic field data are presented on Map . A contour interval of 200nT has been employed. The data reveal an easterly geological strike direction in the area of the grid extension. The magnetic map is dominated by two narrow elongated dyke-like responses. The northern response displays a magnetic relief of up to 4000nT. Outcrop of a basalt flow occurs in very close proximity to the axis of this feature and suggests that a discrete flow unit is the causative source. Variations in magnetic content of the flow unit can be inferred from changes in the magnetic relief along the strike length of the feature.

The southern magnetic feature extends for approximately 2000 feet and displays a magnetic relief of up to 5500nT at its more magnetic eastern end. Iron formation occurs in outcrop in close proximity to the western end of the feature.

It is suggested that iron formation may be the causative source of this magnetic response. Distinct variations in magnetic relief and gradient along strike may reflect increasing magnetite content towards the east and decreasing depth to source in the same direction.

Apart from the previously described responses, the area is magnetically featureless. Those areas lacking a definable magnetic response would appear, from available outcrop information, to be underlain by poorly magnetic basalt flows.

Respectfully Submitted,

Timmins, Ontario  
June 15, 1981

Brian Groves  
Geophysicist

*Approved  
RA Knutson  
Supervisor*



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MIRADO OPTION

1050-01

PROGRESS REPORT

AND

PROPOSED EXPLORATION PROGRAM

AMAX MINERALS EXPLORATION

Timmins, Ontario

February 1982

Gerard Tremblay  
Geologist



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ATTACHED

B. Groves, Report on Supplementary Magnetic Survey  
Mirado Property June 15, 1981 with  
accompanying map.

## SUMMARY

Early in 1980, Amax optioned from Mirado Nickel Mines Limited a gold property, the former producer Yama Gold Mines Limited, located 12 miles southeast of Kirkland Lake, Northeastern Ontario.

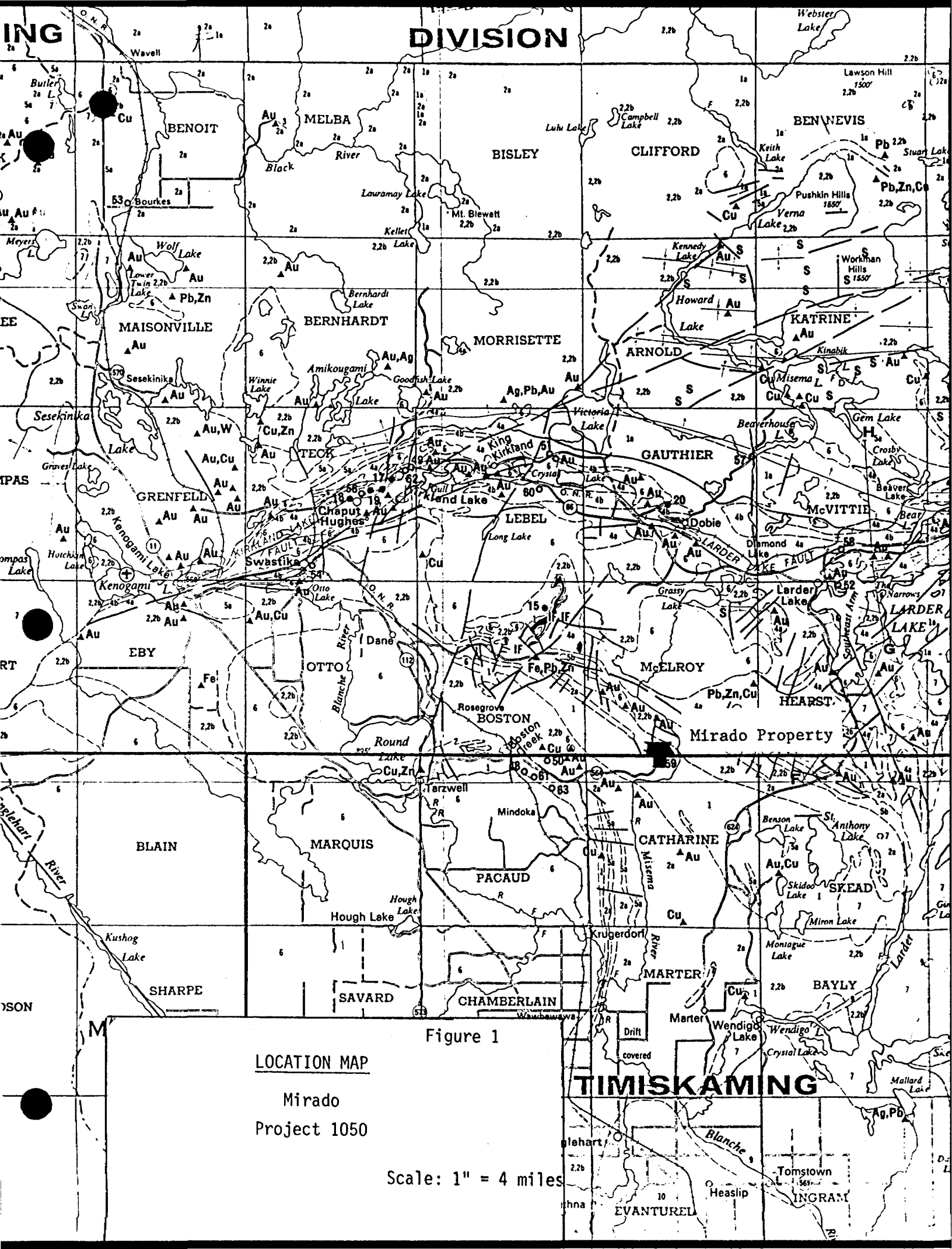
A large volume of technical data from previous work was studied and re-compiled in early 1980.

Between May of 1980 and November of 1981, ground geophysical surveys, geological mapping and prospecting, three phases of diamond drilling and a stripping and sampling program were carried out on the property. Fifty-five (55) drill holes totalling 30,241 feet were completed. Forty-three (43) holes were drilled in the "south zone", nine holes in the "north zone", two holes south of the south zone and one hole in the northern portion of the property.

The south zone was traced by drilling for a strike length of 1800 feet with gold values scattered along it.

Detail drilling was completed on the Cathroy south zone, in which widespread low and medium grade gold values and erratic high grade gold values were encountered intermittently over 800 feet across strike and 500 feet along strike. The mineralized zones appear to have limited lateral and vertical continuity.

It is recommended that the sampling and mapping program in the stripped area initiated in the fall of 1981, be completed in the 1982 field season.



**DIVISION**

Figure 1

LOCATION MAP

Mirado  
Project 1050

Scale: 1" = 4 miles

**TIMISKAMING**

## INTRODUCTION

Early in 1980, Amax optioned from Mirado Nickel Mines Limited, a gold property, the former producer Yama Gold Mines Limited (1937-43), located in south central McElroy and north central Catharine townships, approximately 12 miles southeast of Kirkland Lake, Northeastern Ontario. Between May 1980 and November 1981, ground geophysical surveys, geological mapping and prospecting, three phases of diamond drilling and a stripping and sampling program were carried out on the property.

## LOCATION AND ACCESS

The property consists of twelve (12) patent claims and a license of Occupation located in south central McElroy township and the north half of lot 7, Concession VI of Catharine township.

Excellent access is provided by the Kirkland Lake - North Bay highway and the provincial gravel road to Boston Creek. Three miles east of Boston Creek, the provincial gravel road leads to the old Yama road. The old Yama road was upgraded in June 1980, and it is presently suitable for car travel to the mine site.

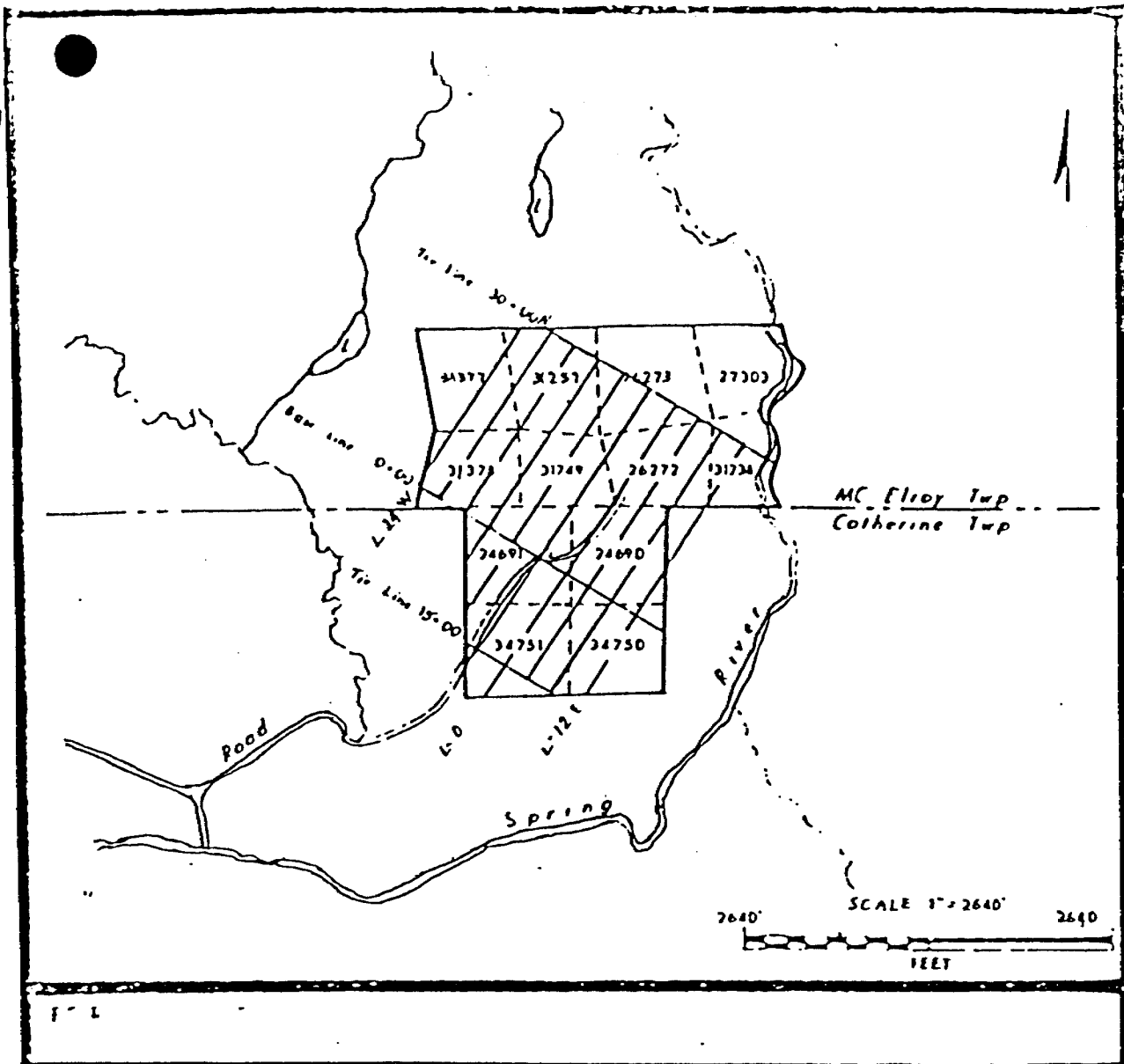


Figure 2

CLAIM SKETCH

Mirado  
Project 1050

Scale: 1" = 2640'  
(1" = ½ mile)

## TOPOGRAPHY

The centre portion of the property is the high relief of the area. Most of the outcrops are in this area. Ridges of outcrops trending south-east lie in the northeast portion of the property.

The southern and western portions of the property are clay covered with sand and gravel near the bedrock surface.

## HISTORY

1. Yama Gold Mines Limited held this property from 1937 to 1943. After an initial surface drilling program, Yama sank a three compartment vertical shaft to 540 feet and established four levels at the 125', 250', 375' and 500' horizons. For 15 months between late 1941 and early 1943, a small mill (50-75 tons daily) was operated with a total output of 22,250 tons from which 3,032 ounces of gold and 946 ounces of silver were recovered. This entire production came from narrow shrinkage stopes in what is now known as the "north zone", near the shaft.

2. In 1943, Yama Gold Mines was taken over by Cathroy Larder Mines Limited. The latter company concentrated on the area southwest of the shaft and delineated a second gold-bearing zone known as the "south zone" by surface drilling in 1945. When work was suspended in August of 1948, more than 15,000' of surface drilling and 17,000' of underground drilling

had been done. Underground work was confined to the 250' and 500' levels, including a raise between these levels and the connection of the 250' and the 500' south zone sublevels to the shaft. When Cathroy Larder discontinued all work in August of 1948, the total underground workings included more than 4,000' of crosscutting, about 8,000' of drifting, 720' of raising and 1,723' of lineal stoping and stope preparation. There was no gold production by Cathroy Larder.

3. Mirado Nickel Mines Limited optioned the property from Cathroy Larder Mines on December 12, 1960. The workings were pumped out and re-mapped. Considerable diamond drilling was done both on surface and from underground but no additional drifting or crosscutting was carried out by Mirado.

Between November 1961 and November 1963, Mirado Nickel completed the following drilling program:

Surface Drilling:	-	23,065' (South Zone only)
Underground Drilling:	-	5,760' (North Zone)
		<u>9,083'</u> (South Zone)
		14,843'

4. Broulan Reef optioned the property for a short period in 1963 and did 5,125' of surface drilling with negative results in the south zone.

The property has remained idle from November 1963 until 1980.

WORK COMPLETED BY AMAX

Early in 1980, Amax gained access to a large volume of technical data from previous work. These reports, maps and sections were studied and re-compiled to interpret the various drilling programs on a single set of level plans and sections.

After some preliminary survey work to make an accurate correlation with the previous surveys and the shaft location, a grid with 200' line spacing was established.

(1) Ground geophysical surveys completed:

- V.L.F. Electromagnetic Survey (13.5 miles)
- Magnetometer Survey (16.7 miles)
- Induced Polarization Survey (11.0 miles)
- PEM Survey (2.7 miles)
- Horizontal Loop Electromagnetic Survey (2.2 miles) x

(2) Geological mapping completed:

- Detailed geological mapping and prospecting was performed in July 1980. The property was mapped at a scale of 1" = 200'.

(3) Diamond drilling completed:

- Three phases of diamond drilling were completed on the property.

PHASE 1

June 25 to July 15, 1980

Holes #1050-01-1 to #1050-01-09 (9 holes) 5,387'

PHASE 2

September 5 to October 18, 1980

Holes #1050-01-10 to #1050-01-24 (15 holes) 8,094'

PHASE 3

January 18 to April 13, 1981

Holes #1050-01-25 to #1050-01-55 (31 holes) 16,760'

TOTAL: 30,241'



(4) Stripping and sampling completed:

- Stripping and sampling was performed on a portion of the "south zone".

GENERAL GEOLOGY

The property is underlain by Precambrian volcanic rocks. The volcanic rocks are composed mainly of pyroclastic rocks with minor intercalated flows.

The property area occupies the north limb of a major anticline structure. The axis of the anticline is located south of the property. The regional strike is E 20°S, with a steep dip varying from 70° to 85° to the northeast.

The stratigraphic top of the volcanic pile is to the north.

PROPERTY GEOLOGY

The volcanic rocks exposed on the property can be arbitrarily divided into two stratigraphical groups: (see Geological Map)

Group #1

Group #1 occupies most of the property area, and is composed mainly of pyroclastic rocks ("shead" pyroclastics) with minor intercalated flows. The pyroclastic rocks include agglomerate, lapilli tuff, tuff and crystal tuff. Most of the pyroclastic rocks are of intermediate to mafic composition. The intercalated flows are of rhyolitic to basaltic composition.

### Group #2

Group #2 occupies the northern portion of the property and is composed mainly of basaltic flows with minor intercalated rhyolite flows and sediments. Group #2 overlies Group #1.

Sulphide-oxide iron formation composed of interbedded pyrite and magnetite (hole #1050-01-20) occur in lenses along the contact between Group #1 and Group #2.

The two above groups are cut by numerous dykes of feldspar porphyry, syenite and diorite-gabbro.

The rocks of Groups #1 and #2 are unevenly sheared, carbonatized, chloritized and sericitized.

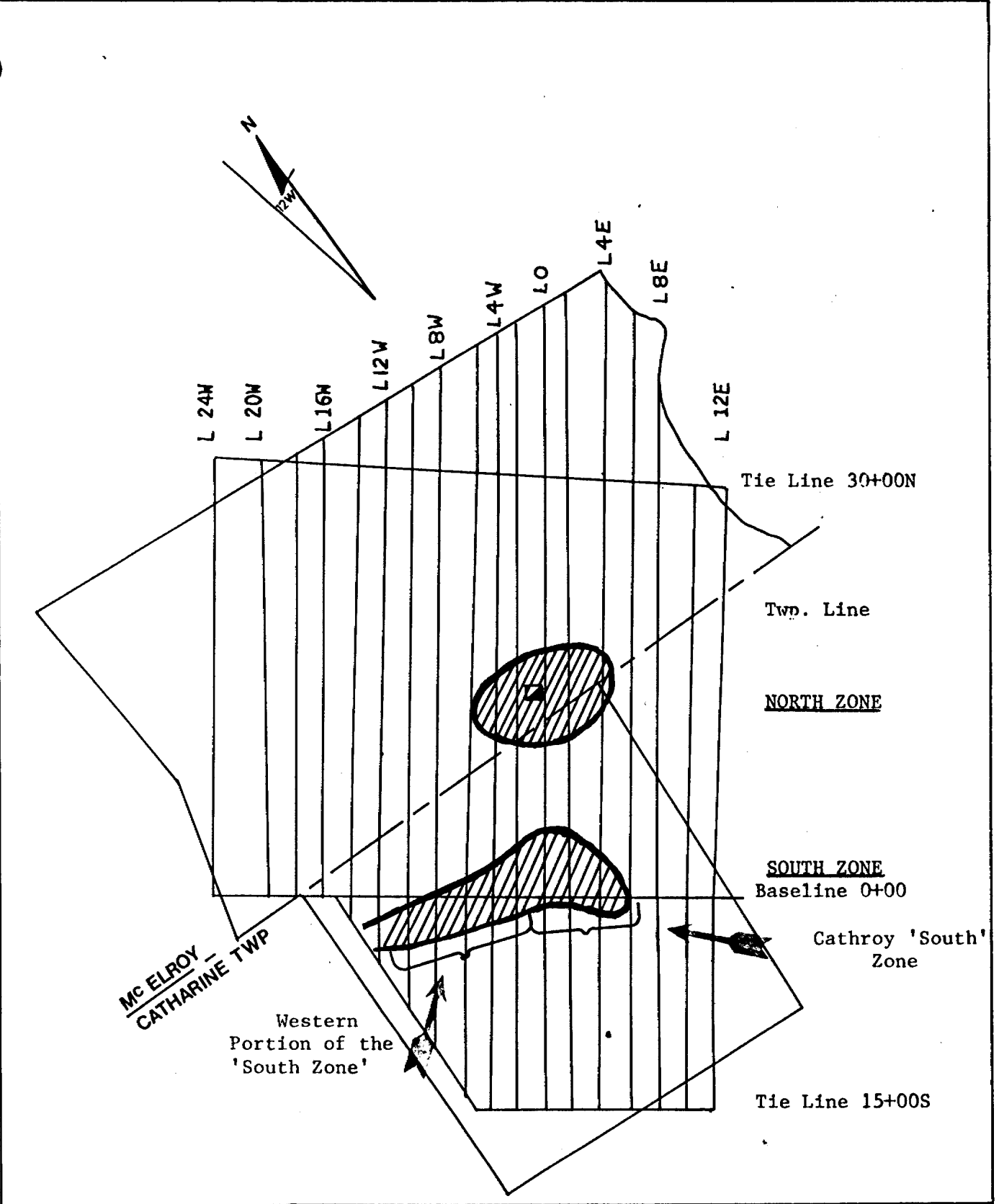
### MINERALIZATION

Two main zones of gold mineralization are found on the property:

- (1) The "north zone", near the shaft, in which the former Yama Gold Mines carried out their work. The total production was 22,500 tons from which 3,032 ounces of gold and 946 ounces of silver were recovered.
- (2) The "south zone", about 1,200' southwest of the shaft, in which the succeeding company, Cathroy Larder Mines Limited did some development. There was no gold production by Cathroy Larder

### The North Zone

The rocks in the north zone area consist of unevenly sheared and altered agglomerates and tuffs with minor interbedded flows. Gold occurs in a number of sub-parallel quartz-calcite-sulphide and massive sulphide seams, which range in width from a fraction of an inch to 6 inches. The mineralized



AMAX MINERALS EXPLORATION  
 Project 1050  
 Mirado

LOCATION SKETCH

▣ Shaft

Scale: 1" = 1000'

Fig. 3

seams have a steep dip to the north.

The seam system has a strike length of approximately 1000'. Five parallel stopes on the 250' level have been mined over a total zone width of 600' across the strike and about 550' along the strike. There is evidence that the gold bearing structures extend to the 500' level and there is no obvious geological limitation to their vertical dimension.

The most abundant sulphide in the seams is pyrite with lesser amounts of sphalerite and chalcopyrite. The gold values are erratic in the seams but values up to 2 oz/ton Au in grab samples were encountered. Most of the gold values are confined to the seam material and rarely found in the disseminated pyrite in the footwall or hanging wall.

The seam and fracture systems are well exposed in the numerous trenches located west of the shaft. The north zone appears to have a very limited potential due to the physical dimensions of the mineralized zones.

#### The South Zone

The rocks in the south zone area consist of unevenly sheared and altered agglomerates, lapilli tuffs, tuffs and intermediate to mafic flows. The zone has been traced by drilling for a strike length of 1,800' with gold values scattered along it.

The most favourable host rocks are the agglomerate and lapilli tuff composed of mafic fragments in an intermediate matrix. The best indicator of higher gold values in the agglomerate and lapilli tuff is the abundance of pyrite mineralization. Minor amounts of sphalerite and chalcopyrite are associated with pyrite. The pyrite mineralization occurs as disseminated (fine and coarse grained) in blebs and in narrow seams and fractures randomly oriented. The best gold values are obtained where the

seam and fracture systems are more developed but good gold values were encountered where only pyrite in blebs and disseminated were present in the agglomerate and lapilli tuff.

The seam and fracture systems also cut the tuffs and lavas but are not as well developed as in the agglomerate and lapilli tuff. Good gold values were obtained also in the tuffs and lavas where the seams and fractures are present.

There are widespread low and medium grade gold values with erratic high grade gold values. These gold intersections were encountered intermittently over 800' across strike on the Cathroy south zone. The mineralized zones appear to have a limited lateral and vertical continuity.

Gold values up to 0.093 oz/ton over 103.3' were encountered. The lenticular shape of the agglomerate and lapilli tuff, the variable pyrite content, the unevenly developed seam and fracture systems and the erratic distribution of gold mineralization make it difficult to establish ore zones.

A summary of the assays and the best intersections encountered in the south and north zones are listed in Appendix #1 and Appendix #2.

#### DIAMOND DRILLING

Three phases of diamond drilling were completed on the property. The drilling was carried out by St. Lambert Drilling of Valleyfield, Quebec. An all hydraulic unitized rig pulled by a Timberjack was used. BQ core size was drilled.

Fifty-five (55) holes totalling 30,241' were completed:

<u>Zone</u>	<u>Footage (Feet)</u>	<u>Number of Holes</u>
South	24,968.7	43
North	3,742.8	9
Elsewhere	1,529.5	3

The first and second phases of diamond drilling in 1980 were reconnaissance programs on the south and north zones. The south zone was tested over a strike length of 1,800' with a section interval of 200'. The north zone was tested with a few short holes.

The third phase of drilling performed in the winter of 1981, was undertaken to explore in detail the Cathroy south zone. The program was designed to verify ore zones previously outlined by Cathroy Larder Mines Limited in their surface and underground drilling. The drilling was carried out on determined sections with an average spacing of about 60'. Twenty-nine (29) holes totalling 15,580.5' were drilled on the Cathroy south zone in the third phase. Two (2) holes (1050-01-47 and 53) totalling 1,179.5' were drilled south of the south zone to explore the contact zone between the ultramafic intrusion and the pyroclastic rocks.

The Cathroy south zone was explored in detail over a strike length of 500', across strike for about 1000' and to a depth of approximately 400'.

Numerous gold mineralized zones of variable grades were encountered, but they appear to have limited lateral and vertical continuity.

#### STRIPPING AND SAMPLING

Following the diamond drill program carried out in the winter of 1981, it was decided that a portion of the Cathroy south zone be stripped and sampled to enable us to visualize the structure and distribution of the Au mineralization. This

portion of the south zone was chosen because of the relatively shallow overburden.

The mechanical stripping program initiated on July 27, was completed on September 24, 1981. The mechanical stripping was carried out by Nelson Bros. Contractor of Kirkland Lake, Ontario. The equipment used for the stripping program consisted of a D85 Bulldozer, A J.D. 690 Backhoe and three dump trucks.

The stripped area is about 350 feet long and 200 feet wide, with a vertical overburden depth varying from 0' to 22'.

On September 23, the hydraulic cleaning of the bedrock was initiated on the western half of the area.

The sampling program commenced on October 12 and was terminated on November 14 due to bad weather conditions. A diamond saw was used to cut continuous samples along pre-determined sections. Five and one half (5½) sections across the stripped area, 40' or 60' apart, were sampled.

The sampled sections are: (see Sample Location Map)

<u>Section</u>	<u>From</u> (ft)	<u>To</u> (ft)	<u>Footage Sampled</u> (ft)
1+00W	243.1'N	379.5'N	125.4'
0+60W	244.5'N	390.9'N	146.4'
0+20W	222.5'N	389.0'N	166.5'
0+20E	198.0'N	389.3'N	191.3'
0+60E	139.6'N	383.2'N	243.6'
1+20E	117.8'N	200.0'N	82.2'
1+20E	345.0'N	394.0'N	<u>49.0'</u>
			1,004.4'

Assay results above 1.03ppm or 0.03 oz/ton are listed on the following page:

<u>Section</u>	<u>From</u> (ft)	<u>To</u> (ft)	<u>Au</u> (ppm)
1+00W	285'N	290'N	1.47
0+20W	315'N	320'N	2.86
"	320'N	325'N	3.15
"	360'N	365'N	1.54
0+20E	215'N	220'N	1.58
"	245'N	250'N	1.22
"	250'N	254.2'N	2.47
"	305'N	310'N	1.53
"	320'N	325'N	1.23
0+60E	295'N	300'N	1.29
"	320'N	325'N	3.05
"	345'N	350'N	1.18
"	350'N	355'N	2.88
"	355'N	360'N	2.42
"	360'N	365'N	1.40
"	370'N	375'N	2.92
1+20E	140'N	145'N	2.02
"	345'N	350'N	4.69
"	350'N	355'N	23.47
"	360'N	365'N	2.69
"	370'N	375'N	4.94

Two mineralized zones appear to be continuous:

1. A wide zone between 345'N and 375'N on sections 0+60E and 1+20E.
2. A narrow zone between 320'N and 325'N on sections 0+20W, 0+20E and 0+60E.

The western half of the stripped area was mapped at a scale of 20' to the inch. (see Geological Map)

Tuff, lapilli tuff and agglomerate are exposed in the stripping area. Numerous dykes of variable composition cut the pyroclastic rocks. Late faults running southeast displaced the pyroclastic rocks and most of the dykes.



The completion of the sampling and mapping program in the stripped area will provide a better understanding of the Au mineralization of the south zone in general.

## CONCLUSIONS

### North Zone

The Au mineralization is associated with a number of sub-parallel and steeply dipping narrow sulphide seams. The most abundant sulphide is pyrite with minor sphalerite and chalcopyrite. This zone has a limited potential due to the physical dimensions of the mineralized zones.

### South Zone

The Au mineralization is associated with sulphides. The most abundant sulphide is pyrite with minor sphalerite and chalcopyrite. The pyrite mineralization occurs as disseminated (fine and coarse grained) in blebs and narrow seams and fractures randomly oriented. The most favourable host rocks are the agglomerate and lapilli tuff composed of mafic fragments in an intermediate matrix. There are widespread low and medium grade gold values with erratic high gold values. These gold intersections were encountered intermittently over 800' across strike and over a strike length of 500' on the Cathroy south zone. The mineralized zones appear to have limited lateral and vertical continuity.

RECOMMENDATIONS

It is recommended that the sampling and mapping program in the stripped area be completed in the 1982 field season. The completion of the program will require approximately six (6) weeks.

The completion of this program will enable us to better understand the structure of the Au mineralization in the south zone and subsequently to make a decision concerning the economic gold potential of the property.

Timmins, Ontario  
February 1982

*G. Tremblay*

Submitted by,  
G. Tremblay

Approved  
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*P.F. G.*

APPENDIX A1

SUMMARY OF ANALYSES

The gold values above 1.03 part per million or 0.03 ounce per ton are listed below:

Hole Number	From (feet)	To (feet)	Length (feet)	Au (ppm)
1050-01-1	188.0	189.0	1.0	3.57
	280.0	290.0	10.0	2.47
	347.0	348.0	1.0	13.79
	356.0	361.8	5.8	1.95
	376.9	381.9	5.0	18.74
	550.0	560.0	10.0	1.14
1050-01-2	734.0	740.0	6.0	6.82
	755.0	760.0	5.0	3.22
	772.0	775.0	3.0	14.49
	831.0	838.7	7.7	1.54
1050-01-4	61.0	65.1	4.1	6.55
	84.0	84.7	0.7	10.50
	125.8	127.8	2.0	4.50
	137.4	138.0	0.6	1.67
	277.0	287.6	10.6	1.76
1050-01-6	70.0	75.0	5.0	6.69
	227.3	228.4	1.1	1.51
	308.5	310.5	2.0	3.99
	355.7	358.8	3.1	6.34
1050-01-7	230.5	237.6	7.1	1.52
	248.3	252.2	3.9	12.08
	341.8	347.5	5.7	1.02
	366.5	375.5	9.0	1.37
	465.5	475.5	10.0	1.05
	485.5	495.5	10.0	15.09
1050-01-8	41.4	42.8	1.4	24.34
	80.0	90.0	10.0	1.44
	100.0	110.0	10.0	1.04
1050-01-9	171.8	181.8	10.0	6.59
	283.0	285.5	2.5	1.03
1050-01-10	426.0	431.0	5.0	2.78
	477.3	478.5	1.2	1.96
	493.5	498.5	5.0	1.37

Lot Number	From (feet)	To (feet)	Length (feet)	Au (ppm)
1050-01-12	272.7	277.7	5.0	1.04
	389.0	394.0	5.0	3.13
	414.0	419.0	5.0	3.11
	419.0	424.0	5.0	1.51
	424.0	430.7	6.7	2.60
1050-01-13	107.8	109.5	1.7	1.23
	122.0	127.0	5.0	2.53
	127.0	133.1	6.1	1.33
	140.5	145.5	5.0	1.19
	155.5	160.5	5.0	1.08
	160.5	165.5	5.0	0.99
	165.5	170.5	5.0	1.82
	240.0	245.5	5.0	1.77
	554.0	559.0	5.0	1.78
	559.0	564.0	5.0	2.30
	564.0	567.5	3.5	4.05
	598.0	603.0	5.0	1.13
	647.0	652.0	5.0	11.19
	687.5	692.5	5.0	1.19
1050-01-14	27.0	33.2	6.2	1.65
	33.2	39.3	6.1	1.15
	42.9	43.2	0.3	1.31
	48.1	48.4	0.3	8.28
	71.7	74.0	2.3	1.34
	106.3	111.0	4.7	1.37
	206.0	211.0	5.0	1.95
1050-01-16	84.0	87.0	3.0	12.14
	130.4	132.1	1.7	1.32
1050-01-17	28.8	32.8	4.0	4.85
	36.1	40.5	4.4	2.00
	58.0	60.0	2.0	2.04
	162.0	163.7	1.7	1.30
	179.0	181.5	2.5	3.05
1050-01-18	45.0	49.0	4.0	3.60
	76.0	78.0	2.0	1.12
	105.0	107.5	2.5	1.19
	122.5	125.5	3.0	2.85
	175.0	180.0	5.0	1.45
	185.0	190.5	5.5	6.61
1050-01-19	27.0	29.0	2.0	12.74

Hole Number	From (feet)	To (feet)	Length (feet)	Au (ppm)
1050-01-21	56.7	60.5	3.8	9.48
	95.3	101.3	6.0	1.43
	106.4	106.7	0.3	111.09
	129.0	134.0	5.0	1.05
	328.5	329.7	1.2	2.13
	442.0	447.0	5.0	4.80
	452.0	457.0	5.0	1.24
	487.0	492.0	5.0	4.43
	574.0	579.0	5.0	3.41
1050-01-22	48.0	53.0	5.0	2.55
	53.0	58.0	5.0	1.04
	58.0	63.0	5.0	3.00
	93.4	98.4	5.0	1.31
	205.0	210.0	5.0	1.24
	305.0	310.0	5.0	2.59
	375.0	380.0	5.0	1.24
	410.0	415.0	5.0	2.39
	622.0	627.0	5.0	2.58
	632.0	637.0	5.0	5.54
	637.0	642.0	5.0	38.05
1050-01-23	296.0	302.0	6.0	2.78
	425.0	431.0	6.0	1.20

Hole Number	From (metres)	To (metres)	Length (metres)	Au (ppm)
1050-01-25	30.00m	31.50m	1.50m	2.10
	70.50m	72.00m	1.50m	8.80
	72.00m	73.50m	1.50m	3.82
	75.80m	77.30m	1.50m	10.34
1050-01-26	63.90m	65.40m	1.50m	2.40
	65.40m	66.20m	0.80m	6.57
	68.70m	70.20m	1.50m	10.00
	70.20m	71.70m	1.50m	1.02
1050-01-27	19.50m	21.00m	1.50m	3.82
	66.30m	67.80m	1.50m	2.63
	99.00m	102.00m	3.00m	1.80
	102.00m	103.50m	1.50m	1.82
	103.50m	104.80m	1.30m	1.66
	104.80m	106.30m	1.50m	1.77
	109.30m	110.80m	1.50m	1.26

Core Number	From (metres)	To (metres)	Length (metres)	Au (ppm)
1050-01-28	44.80	46.30	1.50	3.18
	65.05	66.55	1.50	4.66
	66.55	68.05	1.50	2.77
	75.55	77.05	1.50	2.98
	78.55	80.05	1.50	3.50
	80.05	81.55	1.50	6.01
	81.55	83.05	1.50	2.00
	83.05	84.55	1.50	3.06
	84.55	86.05	1.50	56.23
	86.05	87.55	1.50	1.81
	89.05	90.55	1.50	2.82
	90.55	92.05	1.50	6.68
1050-01-29	31.50	33.00	1.50	1.08
	39.00	40.50	1.50	4.68
	40.50	42.00	1.50	12.40
	42.00	43.50	1.50	1.38
	76.50	78.00	1.50	4.68
	79.50	81.00	1.50	1.06
	85.50	87.00	1.50	4.00
	87.00	88.50	1.50	0.99
	88.50	90.00	1.50	1.58
	134.40	136.50	2.10	1.20
136.50	138.00	1.50	1.20	
1050-01-30	14.20	14.70	0.50	2.22
	21.00	21.70	0.70	1.62
	33.80	34.40	0.60	8.57
	42.00	43.50	1.50	9.95
	52.50	54.00	1.50	1.05
	58.50	60.00	1.50	10.42
	61.50	63.00	1.50	1.37
	79.00	80.00	1.00	158.36
	108.00	109.40	1.40	1.66
1050-01-31	29.65	31.00	1.35	1.59
	31.00	32.125	1.125	1.89
	63.00	64.50	1.50	2.09
	81.35	84.00	2.65	1.51
	117.00	120.00	3.00	1.03
1050-01-32	27.00	28.50	1.50	1.02
	28.50	30.00	1.50	3.36
	30.00	31.50	1.50	12.28
	31.50	33.00	1.50	1.35
	37.50	39.00	1.50	1.04
	39.00	40.50	1.50	1.13
	40.50	42.00	1.50	1.96
	46.50	47.80	1.30	1.85
	66.00	69.00	3.00	3.91
	84.35	85.90	1.55	1.04
	85.90	87.50	1.60	4.25
	103.45	105.00	1.55	1.77
	105.00	106.50	1.50	2.95
	106.50	108.00	1.50	2.69

Core Number	From (metres)	To (metres)	Length (metres)	Au (ppm)
1050-01-32 (cont'd)	108.00	109.50	1.50	2.66
	109.50	111.00	1.50	2.01
	111.00	112.50	1.50	4.81
	112.50	114.00	1.50	1.71
	114.00	115.50	1.50	1.26
	115.50	117.00	1.50	3.19
	117.00	118.50	1.50	1.88
	118.50	120.00	1.50	0.99
	120.00	121.50	1.50	3.22
	121.50	123.00	1.50	0.93
	123.00	124.50	1.50	1.45
	124.50	126.00	1.50	2.51
	126.00	127.50	1.50	8.03
	127.50	129.00	1.50	5.11
	129.00	130.50	1.50	0.51
	130.50	132.00	1.50	5.25
	132.00	133.50	1.50	1.85
	135.00	136.50	1.50	1.03
	141.50	143.30	1.80	1.31
	1050-01-33	21.00	22.00	1.00
22.83		24.00	1.17	6.75
31.50		33.00	1.50	3.36
33.00		34.50	1.50	2.56
34.50		36.00	1.50	1.40
36.00		37.50	1.50	3.88
37.50		39.00	1.50	1.47
39.00		40.50	1.50	1.88
40.50		42.00	1.50	0.76
42.00		43.50	1.50	2.12
43.50		45.00	1.50	4.76
45.00		46.50	1.50	2.09
51.00		52.50	1.50	1.36
55.50		57.00	1.50	1.00
57.00		58.50	1.50	0.99
58.50		59.90	1.40	1.02
63.00		64.50	1.50	2.17
66.00		67.50	1.50	3.88
67.50		69.80	2.30	7.72
71.00		72.00	1.00	4.90
73.50		75.00	1.50	2.48
75.00		76.50	1.50	7.89
76.50		78.00	1.50	1.98
78.00		79.50	1.50	2.81
79.50		80.50	1.00	2.85
80.50		82.50	2.00	1.13
82.50	84.20	1.70	3.53	
85.40	87.00	1.60	4.73	
87.00	88.50	1.50	3.64	
88.50	90.00	1.50	5.49	
90.00	91.50	1.50	5.35	

Hole Number	From (metres)	To (metres)	Length (metres)	Au (ppm)
1050-01-33 (cont'd)	93.00	94.50	1.50	3.02
	105.00	106.40	1.40	1.55
	129.00	130.50	1.50	4.68
	130.50	132.00	1.50	1.09
	132.00	133.50	1.50	1.43
	148.50	150.00	1.50	2.88
1050-01-34	9.00	10.50	1.50	1.13
	19.50	21.00	1.50	1.41
	21.00	21.90	0.90	1.48
	37.50	39.00	1.50	1.96
	39.00	40.50	1.50	2.58
	52.50	54.00	1.50	1.35
	61.50	63.00	1.50	1.11
	66.00	67.50	1.50	0.99
	87.00	88.50	1.50	1.57
	102.00	103.50	1.50	2.00
109.50	111.00	1.50	1.13	
1050-01-35	18.00	19.50	1.50	1.63
	21.00	23.50	2.50	1.29
	36.00	37.50	1.50	4.16
	42.00	43.50	1.50	1.13
	45.00	46.50	1.50	1.03
	46.50	48.00	1.50	1.17
	52.50	54.00	1.50	1.89
	54.00	55.50	1.50	14.70
	69.00	70.50	1.50	2.81
	72.00	73.50	1.50	14.40
	87.50	90.10	2.60	7.58
	103.50	105.00	1.50	2.86
	105.00	107.30	2.30	1.93
	121.50	123.00	1.50	14.78
	123.00	124.50	1.50	1.43
147.00	148.50	1.50	34.81 Visible Gold	
1050-01-36	15.20	15.90	0.70	2.28
	30.00	31.50	1.50	1.54
	41.85	42.00	0.15	3.38
	99.90	100.50	0.60	1.64
	100.50	102.00	1.50	0.93
	112.50	114.00	1.50	1.45
	114.00	115.50	1.50	1.04
	115.50	117.00	1.50	1.77
	163.50	165.00	1.50	1.07



Core Number	From (metres)	To (metres)	Length (metres)	Au (ppm)
1050-01-37	7.80	9.00	1.20	1.43
	15.00	17.75	2.75	2.05
	17.75	19.60	1.85	2.76
	22.50	24.00	1.50	3.58
	84.00	85.50	1.50	1.88
	94.50	96.00	1.50	1.56
	96.00	97.50	1.50	1.45
	97.50	99.90	2.40	1.38
	99.90	102.00	2.10	1.88
	102.00	103.50	1.50	0.91
	103.50	105.00	1.50	1.20
	105.00	106.50	1.50	2.60
	106.50	108.00	1.50	1.00
	108.00	109.50	1.50	1.88
	109.50	111.00	1.50	2.86
	111.00	112.50	1.50	1.14
1050-01-38	83.55	83.70	0.15	4.00
	90.00	91.50	1.50	1.58
1050-01-39	18.95	21.00	2.05	1.66
	28.50	29.50	1.00	2.05
	29.50	30.00	0.50	4.34
	113.50	116.50	3.00	2.02
	116.50	118.30	1.80	1.76
	118.30	118.50	0.20	3.48
1050-01-40	49.50	50.80	1.30	1.78
	50.80	52.50	1.70	0.96
	85.80	87.00	1.20	1.10
	91.50	93.00	1.50	2.83
	138.50	139.80	1.30	1.27
	139.80	141.00	1.20	1.06
1050-01-41	13.50	15.00	1.50	2.40
	47.70	49.50	1.80	1.49
	160.55	160.90	0.35	5.33
	162.85	163.15	0.30	1.19
1050-01-42	37.50	39.00	1.50	3.94
	61.50	63.00	1.50	1.23
	118.00	119.50	1.50	2.06
	129.00	130.50	1.50	1.08
	144.00	145.50	1.50	2.45
	154.50	156.00	1.50	1.46
	183.00	184.50	1.50	1.06

Core Number	From (metres)	To (metres)	Length (metres)	Au (ppm)
1050-01-43	47.65	48.50	0.85	3.50
	90.00	91.50	1.50	2.07
	91.50	93.00	1.50	1.20
	97.50	99.00	1.50	1.29
	138.00	139.50	1.50	1.68
	154.30	155.40	1.10	8.10
	169.00	170.00	1.00	5.61
	176.90	178.40	1.50	1.69
	222.45	225.00	2.55	7.00
	228.00	229.50	1.50	2.72
	229.50	230.00	0.50	5.83
	233.00	233.75	0.75	1.12
	240.50	243.00	2.50	1.10
	243.00	244.50	1.50	5.76
	264.30	265.50	1.20	19.89
	1050-01-44	42.00	43.50	1.50
105.00		107.50	2.50	5.06
107.50		108.70	1.20	13.38
114.00		115.50	1.50	2.37
117.00		118.50	1.50	2.26
118.50		120.00	1.50	1.31
120.00		121.50	1.50	3.10
121.50		123.00	1.50	3.34
123.00		124.50	1.50	3.02
127.50		129.00	1.50	2.12
1050-01-45	63.00	64.50	1.50	8.88
	66.00	67.50	1.50	7.24
	88.00	89.50	1.50	1.48
	89.50	91.20	1.70	0.96
1050-01-46	28.50	30.00	1.50	2.80
	43.50	45.00	1.50	1.06
	63.30	64.50	1.20	1.33
	64.50	66.00	1.50	1.37
	66.00	67.50	1.50	18.86
	67.50	69.00	1.50	0.85
	74.55	76.50	1.95	8.75
	76.50	78.00	1.50	1.02
	78.00	79.50	1.50	1.07
	108.00	109.50	1.50	24.35
	109.50	111.00	1.50	0.98
	111.00	112.50	1.50	1.76
	121.50	123.00	1.50	2.31

Hole Number	From (metres)	To (metres)	Length (metres)	Au (ppm)
1050-01-49	45.00	46.50	1.50	1.99
	46.50	48.00	1.50	1.53
	51.00	52.50	1.50	1.20
	52.50	54.00	1.50	1.23
	123.00	124.60	1.60	1.14
	137.50	139.00	1.50	1.06
	151.50	153.00	1.50	1.43
	159.00	162.00	3.00	7.17
	162.00	165.00	3.00	1.43
	181.50	183.00	1.50	6.62
	210.00	213.00	3.00	2.02
	235.50	237.00	1.50	3.65
	265.50	267.00	1.50	4.37
	267.00	268.50	1.50	5.54
1050-01-50	75.00	77.00	2.00	24.35
	77.00	78.00	1.00	31.39
	114.00	115.50	1.50	2.28
	120.00	123.00	3.00	4.04
	129.00	132.85	3.85	1.56
	154.50	156.00	1.50	1.47
1050-01-51	5.30	7.50	2.20	2.26
	7.50	9.00	1.50	0.99
	9.00	10.50	1.50	1.58
	21.00	24.00	3.00	1.04
	55.50	57.00	1.50	9.61
	135.00	138.00	3.00	2.18
	144.00	145.50	1.50	4.49
145.50	147.00	1.50	2.03	
1050-01-52	10.50	12.00	1.50	1.23
	21.00	22.50	1.50	1.94
	34.50	36.00	1.50	1.01
	57.00	38.50	1.50	1.83
1050-01-54	40.00	41.50	1.50	1.19
1050-01-55	55.00	56.50	1.50	1.36
	66.00	67.50	1.50	2.63
	69.00	70.50	1.50	1.46

APPENDIX #2SUMMARY OF THE BEST INTERSECTIONS

A summary of the best intersections are listed below: (including assays between 0.01 and 0.03 oz/ton Au when between or contiguous to higher values)

Hole Number	From (feet)	To (feet)	Length (feet)	Au (ppm)	Au (oz/ton)
1050-01-1 (south zone)	280.0 376.9	290.0 386.9	10.0 10.0	2.47 9.64	0.072 0.281
1050-01-2 (south zone)	734.0 772.0	740.0 775.0	6.0 3.0	6.82 14.49	0.198 0.423
1050-01-4 (north zone)	61.0	65.1	4.1	6.55	0.190
1050-01-6 (north zone)	70.0 355.7	75.0 358.8	5.0 3.1	6.69 6.34	0.195 0.185
1050-01-7 (south zone)	248.3 485.5	252.2 495.5	3.9 10.0	12.08 15.09	0.352 0.439
1050-01-8 (south zone)	41.4	42.8	1.4	24.34	0.710
1050-01-9 (south zone)	171.8	181.8	10.0	6.59	0.191
1050-01-12 (south zone)	414.0	430.7	16.7	2.43	0.071
1050-01-13 (south zone)	554.0 647.0	567.5 652.0	13.5 5.0	2.56 11.19	0.074 0.325
1050-01-16 (north zone)	84.0	87.0	3.0	12.14	0.354
1050-01-17 (north zone)	28.8	32.8	4.0	4.85	0.141
1050-01-18 (north zone)	45.0 185.0	49.0 190.5	4.0 5.5	3.60 6.61	0.105 0.192

Hole Number	From (feet)	To (feet)	Length (feet)	Au (ppm)	Au (oz/ton)
1050-01-19 (north zone)	27.0	29.0	2.0	12.74	0.371
1050-01-21 (south zone)	56.7	60.5	3.8	9.48	0.276
	442.0	457.0	15.0	2.17	0.063
	487.0	492.0	5.0	4.43	0.129
	574.0	579.0	5.0	3.41	0.099
1050-01-22 (south zone)	48.0	63.0	15.0	2.20	0.064
	632.0	642.0	10.0	21.80	0.636
1050-01-23 (south zone)	296.0	302.0	6.0	2.78	0.081

Hole Number	From (metres)	To (metres)	Length (metres)	Au (ppm)	Au (oz/ton)
1050-01-25 (south zone)	70.5	77.3	6.8	4.80	0.140
1050-01-26 (south zone)	63.9	71.7	7.8	3.34	0.097
1050-01-27 (south zone)	66.3	67.8	1.5	2.63	0.077
	99.0	106.3	7.3	1.77	0.051
1050-01-28 (south zone)	65.05	68.05	3.0	3.72	0.108
	75.55	92.05	16.5	5.85	0.170
1050-01-29 (south zone)	39.0	43.5	4.5	6.15	0.179
	76.5	90.0	13.5	1.62	0.047
1050-01-30 (south zone)	42.0	43.5	1.5	9.95	0.290
	58.5	63.0	4.5	4.17	0.121
	79.0	80.0	1.0	158.36	4.62
1050-01-31 (south zone)	63.0	64.5	1.5	2.09	0.060

Core Number	From (metres)	To (metres)	Length (metres)	Au (ppm)	Au (oz/ton)
1050-01-32 (south zone)	27.0	33.0	6.0	4.50	0.131
	66.0	69.0	3.0	3.91	0.114
	103.45	133.5	30.05	2.74	0.080
1050-01-33 (south zone)	22.83	24.0	1.17	6.75	0.196
	31.5	46.5	15.0	2.43	0.071
	63.0	94.5	31.5	3.20	0.093
	129.0	133.5	4.5	2.40	0.070
1050-01-34 (south zone)	37.5	40.5	3.0	2.27	0.066
1050-01-35 (south zone)	36.0	37.5	1.5	4.16	0.121
	49.5	55.5	6.0	4.47	0.130
	72.0	73.5	1.5	14.40	0.420
	87.5	90.1	2.6	7.58	0.221
	118.5	128.7	10.2	3.07	0.090
	147.0	153.0	6.0	8.97	0.261
1050-01-37 (south zone)	22.5	24.0	1.5	3.58	0.104
	94.5	105.0	10.5	1.37	0.040
	105.0	112.5	7.5	1.90	0.055
1050-01-42 (south zone)	37.5	39.0	1.5	3.94	0.115
1050-01-43 (north zone)	47.65	48.5	0.85	3.50	0.103
	90.0	94.5	4.5	1.25	0.036
	154.3	155.4	1.1	8.10	0.236
	169.0	171.0	2.0	3.03	0.089
	222.45	225.0	2.55	7.00	0.204
	226.5	247.5	21.0	1.27	0.037
	264.3	267.4	3.1	7.91	0.230
1050-01-44 (south zone)	105.0	108.7	3.7	7.76	0.225
	114.0	124.5	10.5	2.25	0.065
1050-01-45 (south zone)	63.0	64.5	1.5	8.88	0.258
	66.0	67.5	1.5	7.24	0.211

Core Number	From (metres)	To (metres)	Length (metres)	Au (ppm)	Au (oz/ton)
1050-01-46 (south zone)	63.3	69.0	5.7	5.60	0.163
	74.55	81.0	6.45	3.27	0.095
	108.0	112.5	4.5	9.03	0.263
1050-01-49 (south zone)	45.0	54.0	9.0	1.19	0.035
	156.0	165.0	9.0	3.14	0.091
	177.0	186.0	9.0	1.65	0.048
	210.0	213.0	3.0	2.02	0.058
	235.5	243.0	7.5	1.07	0.031
	265.5	268.5	3.0	4.96	0.145
1050-01-50 (south zone)	75.0	78.0	3.0	26.70	0.778
	120.0	132.85	12.85	1.63	0.048
1050-01-51 (south zone)	5.3	12.0	6.7	1.40	0.041
	55.5	57.0	1.5	9.61	0.280
	135.0	138.0	3.0	2.18	0.063
	144.0	147.0	3.0	3.26	0.095
1050-01-52 (south zone)	10.5	16.5	6.0	0.70	0.020
	21.0	22.5	1.5	1.94	0.056
	55.5	60.1	4.6	1.25	0.036
1050-01-55 (south zone)	64.1	72.0	7.9	1.09	0.032

APPENDIX 3

LIST OF ADDITIONAL PULPS

To check the homogeneity of the gold mineralization, additional pulps were taken from the rejects which had significant gold mineralization. The original and additional pulps are listed below:

<u>Hole Number</u>	<u>From (m)</u>	<u>To (m)</u>	<u>Length (m)</u>	<u>1st Pulp (ppm)</u>	<u>2nd Pulp (ppm)</u>	<u>3rd Pulp (ppm)</u>	<u>4th Pulp (ppm)</u>
1050-01-22	192.60	194.10	1.50	5.59	2.74	4.11	
				5.49	2.74	6.17	
	194.10	195.60	1.50	38.40	58.29	43.89	60.34
				37.71	50.40	48.00	58.97
1050-01-27	99.00	102.00	3.00	1.83			
				1.78	1.45		
1050-01-35	54.00	55.50	1.50	14.75	16.80		
				14.65	20.91		
	121.50	123.00	1.50	15.09	16.46		
				14.48	15.77		
147.00	148.50	1.50	34.30				
			35.33	41.49			
1050-01-37	17.75	19.60	1.85	2.74			
				2.78	3.77		
	22.50	24.00	1.50	3.43			
			3.74	2.40			
1050-01-37	109.50	111.00	1.50	2.74			
				2.99	2.40		
1050-01-39	29.50	30.00	0.50	4.12			
				4.56	1.71		
1050-01-40	91.50	93.00	1.50	2.40	4.80		
				3.26	5.49		
1050-01-41	13.50	15.00	1.50	2.40			
				2.41	1.37		
1050-01-42	37.50	39.00	1.50	4.12			
				3.77	3.77		
	118.00	119.50	1.50	1.72	0.62		
			2.41	0.75			
1050-01-43	222.45	225.00	2.55	7.55	0.30		
				6.45	0.64		
	243.00	244.50	1.50	5.49	3.36		
			6.04	3.29			



<u>Hole Number</u>	<u>From (m)</u>	<u>To (m)</u>	<u>Length (m)</u>	<u>1st Pulp (ppm)</u>	<u>2nd Pulp (ppm)</u>	<u>3rd Pulp (ppm)</u>	<u>4th Pulp (ppm)</u>
1050-01-44	105.00	107.50	2.50	5.49	6.17		
				4.63	8.81	3.43	3.77
	107.50	108.70	1.20	13.38			
				13.38	12.34		
1050-01-45	114.00	115.50	1.50	2.06			
				2.68	2.06		
	123.00	124.50	1.50	3.09			
				2.95	2.06		
1050-01-46	66.00	67.50	1.50	6.52			
				7.96	6.17		
	88.00	89.50	1.50	1.37			
1050-01-49				1.59	1.03		
	28.50	30.00	1.50	3.09	0.88		
				2.51	0.82		
	111.00	112.50	1.50	1.72	1.61		
1050-01-50	121.50	123.00	1.50	1.81	1.57		
				2.40	2.74		
				2.23	3.22		
	45.00	46.50	1.50	2.06			
				1.93	2.14		
	123.00	124.60	1.60	1.03	0.65		
				1.25	0.60		
	151.50	153.00	1.50	1.37			
1050-01-51				1.50	1.31		
	181.50	183.00	1.50	7.20	4.56		
				6.04	3.77		
				2.06			
	210.00	213.00	3.00	1.99	2.71		
				3.77	1.50		
	235.50	237.00	1.50	3.53	1.47		
1050-01-50				4.63			
	265.50	267.00	1.50	4.12	4.77		
	114.00	115.50	1.50	2.06	2.57		
1050-01-51				2.50	3.53		
				1.37			
	129.00	132.85	3.85	1.75	1.57		
1050-01-51				1.37			
	154.50	156.00	1.50	1.58	1.41		
	5.30	7.50	2.20	2.06	1.49		
				2.47	1.13		
1050-01-51				2.06			
	135.00	138.00	3.00	2.30	1.72		
				4.46	4.22		
	144.00	145.50	1.50	4.53	3.26		
					3.29		
1050-01-51	145.50	147.00	1.50	2.03	3.12		

<u>Hole Number</u>	<u>From (m)</u>	<u>To (m)</u>	<u>Length (m)</u>	<u>1st Pulp (ppm)</u>	<u>2nd Pulp (ppm)</u>	<u>3rd Pulp (ppm)</u>	<u>4th Pulp (ppm)</u>
1050-01-52	21.00	22.50	1.50	1.98	1.99		
	57.00	58.50	1.50	1.90 1.81 1.85	2.14		
1050-01-54	40.00	41.50	1.50	1.37 1.02	1.21		

The variation in the gold values obtained from the original and additional pulps, show the erratic distribution of the Au mineralization.

APPENDIX #4

LIST OF DRILL HOLES

<u>Hole Number</u>	<u>Co-ordinates</u>	<u>Length (feet)</u>	<u>Zone</u>
1050-01-1	L- 2 + 00W at 5 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	568.0	South
1050-01-2	L- 4 + 00W at 4 + 90N; S35 <sup>0</sup> W; -45 <sup>0</sup>	958.5	South
1050-01-3	L- 6 + 00W at 5 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	1,145.0	South
1050-01-4	L- 4 + 85W at 11 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	700.0	North
1050-01-5	L- 8 + 00W at 13 + 50N; S35 <sup>0</sup> W; -45 <sup>0</sup>	507.0	North
1050-01-6	L- 5 + 00E at 14 + 50N; S35 <sup>0</sup> W; -45 <sup>0</sup>	600.0	North
1050-01-7	L- 6 + 00W at 0 + 50N; S35 <sup>0</sup> W; -50 <sup>0</sup>	652.5	South
1050-01-8	L- 2 + 00E at 1 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	590.0	South
1050-01-9	L- 6 + 00E at 1 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	579.0	South
1050-01-10	L- 8 + 00W at 0 + 50N; S35 <sup>0</sup> W; -45 <sup>0</sup>	746.0	South
1050-01-11	L-10 + 00W at 1 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	717.0	South
1050-01-12	L-12 + 00W at 0 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	628.0	South
1050-01-13	L- 4 + 10W at 1 + 25N; S35 <sup>0</sup> W; -45 <sup>0</sup>	760.0	South
1050-01-14	L- 2 + 10W at 1 + 25N; S35 <sup>0</sup> W; -45 <sup>0</sup>	700.0	South
1050-01-15	L- 8 + 00W at 10 + 60N; S35 <sup>0</sup> W; -45 <sup>0</sup>	150.0	North
1050-01-16	L- 6 + 00W at 11 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	150.0	North
1050-01-17	L- 4 + 00W at 11 + 75N; S35 <sup>0</sup> W; -45 <sup>0</sup>	250.0	North
1050-01-18	L- 2 + 00W at 12 + 20N; S35 <sup>0</sup> W; -45 <sup>0</sup>	250.0	North
1050-01-19	L- 2 + 00E at 18 + 90N; S35 <sup>0</sup> W; -45 <sup>0</sup>	250.0	North
1050-01-20	L-12 + 00W at 29 + 50N; S35 <sup>0</sup> W; -45 <sup>0</sup>	350.0	Elsewhere
1050-01-21	L- 2 + 00E at 5 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	600.0	South
1050-01-22	L- 0 + 14W at 3 + 60N; S35 <sup>0</sup> W; -45 <sup>0</sup>	660.0	South
1050-01-23	L- 4 + 15E at 2 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	470.0	South
1050-01-24	L- 8 + 00E at 2 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	500.0	South
1050-01-25	L- 2 + 86E at 0 + 02S; S35 <sup>0</sup> W; -45 <sup>0</sup>	406.8	South
1050-01-26	L- 2 + 32E at 0 + 01N; S35 <sup>0</sup> W; -45 <sup>0</sup>	462.6	South
1050-01-27	L- 1 + 64½E at 0 + 04S; S35 <sup>0</sup> W; -45 <sup>0</sup>	422.4	South
1050-01-28	L- 1 + 13E at 0 + 02N; S35 <sup>0</sup> W; -45 <sup>0</sup>	315.0	South
1050-01-29	L- 1 + 64½E at 2 + 00N; S35 <sup>0</sup> W; -45 <sup>0</sup>	492.1	South
1050-01-30	L- 2 + 32E at 2 + 42N; S35 <sup>0</sup> W; -45 <sup>0</sup>	414.9	South

<u>Hole Number</u>	<u>Co-ordinates</u>	<u>Length (feet)</u>	<u>Zone</u>
1050-01-31	L- 2 + 86E at 2 + 12N; S35°W; -45°	435.9	South
1050-01-32	L- 2 + 86E at 3 + 92N; S35°W; -45°	503.3	South
1050-01-33	L- 2 + 32E at 3 + 95N; S35°W; -45°	511.8	South
1050-01-34	L- 1 + 64½E at 3 + 19N; S35°W; -45°	384.2	South
1050-01-35	L- 0 + 54E at 3 + 01N; S35°W; -45°	639.8	South
1050-01-36	L- 0 + 13W at 1 + 71N; S35°W; -45°	570.9	South
1050-01-37	L- 0 + 13W at 5 + 44N; S35°W; -48°	708.0	South
1050-01-38	L- 0 + 54E at 5 + 56N; S35°W; -45°	305.1	South
1050-01-39	L- 1 + 13E at 3 + 94N; S35°W; -45°	403.5	South
1050-01-40	L- 1 + 64½E at 4 + 65N; S35°W; -45°	472.4	South
1050-01-41	L- 0 + 54E at 7 + 01N; S35°W; -45°	639.8	South
1050-01-42	L- 1 + 13E at 7 + 63N; S35°W; -45°	705.4	South
1050-01-43	L- 0 + 13W at 13 + 52N; S35°W; -45°	885.8	North
1050-01-44	L- 3 + 48E at 4 + 01N; S35°W; -45°	604.2	South
1050-01-45	L- 3 + 48E at 0 + 01N; S35°W; -45°	492.1	South
1050-01-46	L- 0 + 54E at 0 + 01N; S35°W; -45°	522.6	South
1050-01-47	L- 6 + 00E at 9 + 05S; S35°W; -45°	648.0	Elsewhere
1050-01-48	L- 4 + 17E at 0 + 01N; S35°W; -45°	393.7	South
1050-01-49	L- 4 + 17E at 3 + 81N; S35°W; -45°	915.4	South
1050-01-50	L- 2 + 86E at 5 + 69N; S35°W; -45°	688.0	South
1050-01-51	L- 1 + 13E at 2 + 61N; S35°W; -45°	731.6	South
1050-01-52	L- 0 + 13W at 0 + 00 ; S35°W; -45°	506.7	South
1050-01-53	L- 6 + 00E at 4 + 49S; S35°W; -45°	531.5	Elsewhere
1050-01-54	L- 1 + 12W at 0 + 00 ; S35°W; -45°	534.8	South
1050-01-55	L- 0 + 54E at 1 + 24S; S35°W; -45°	511.8	South

A

B

APPENDIX #5

DIAMOND DRILL LOGS

Hole 1050-01-25 to Hole 1050-01-55 Inclusive

AMAX MINERALS EXPLORATION

MIRADO PROJECT

CATHARINE - McELROY TWPS.

ONTARIO

E X P L A N A T I O N

1H	Syenite
3	Basic Intrusvice
3E	Peridotite
V <sub>9</sub>	Tuffs
V <sub>9</sub> <sup>1</sup>	Lapilli Tuffs
V <sub>10</sub>	Inter. Fragmental (Agglomerate)
V <sub>4</sub>	Inter. Lava (Dacite?)
V <sub>7</sub>	Mafic Lava

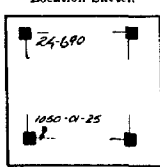
MIRADO COLOUR CODE FOR GOLD ASSAYS

	Greater than 0.10 oz./ton
	0.051 to 0.10 oz./ton
	0.021 to 0.05 oz./ton
	0.009 to 0.02 oz./ton

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Collar Elevation = 4961'

Hole No. 1050-01-25

Hole No. 1050-01-25 Sheet 1	Length 124 metres (406.7')	Commenced January 18, 1981	Dip: Collar -45°	Location Sketch 
Property Mirado Nickel	Bearing S 35° W	Completed January 20, 1981	Etch Test 1 ( ) 60m -49° -40%	
Township Catharine	Dip -45°	Drilling Co. St. Lambert Drilling	2 ( ) 124m -47½° -39%	
Location L 2+86E at O+02S (Section K)	Objective To check Mirado "C" ore block	Core Size BQ	Casing Left/Lost in Hole None	
Logged By F. J. Sugden				Claim No. 24690
Core Location Timmins				Scale: 1:1320'
Remarks				

Footage / metres		DESCRIPTION	Sample No.	From Metres	To Metres	Length Metres	Au (ppm)	Ag (ppm)
From	To							
0	14.0m	OVERBURDEN	C8726	19.3	21.5	2.2	0.01	Nil
0	45.9'		C8727	21.5	23.0	1.5	Nil	Nil
			C8728	23.0	24.5	1.5	0.31	0.4
14.0m	19.3m	INTERMEDIATE LAVA	C8729	24.5	26.0	1.5	0.13	Nil
45.9'	63.3'		C8730	26.0	27.0	1.0	0.04	Nil
			C8731	27.0	28.50	1.5	0.03	Nil
19.3m	34.0m	INTERMEDIATE AGGLOMERATE	C8732	28.50	30.0	1.5	0.01	Nil
63.3'	111.5'		C8733	30.0	31.50	1.5	2.15	0.4
			C8734	31.50	33.0	1.5	0.03	Nil
34.0m	36.3m	INTERMEDIATE LAVA	C8735	33.0	34.0	1.0	0.02	Nil
111.5'	119.1'		C0991	54.0	55.5	1.5	0.12	Nil
			C8736	55.5	57.0	1.5	0.37	0.5
36.3m	45.2m	INTERMEDIATE AGGLOMERATE	C8737	57.0	58.50	1.5	0.36	0.5
119.1'	148.3'		C8738	58.50	60.0	1.5	0.06	0.3
			C8739	61.50	63.0	1.5	0.16	0.3
45.2m	55.5m	CRYSTAL TUFF	C8740	63.0	64.50	1.5	1.0	0.7
148.3'	182.0'		C8741	64.50	66.0	1.5	0.08	0.2
			C8742	66.0	67.50	1.5	0.08	0.2
55.5m	82.55m	LAPILLI TUFF	C8743	67.50	69.0	1.5	Nil	0.2
182.0'	270.8'		C8744	69.0	70.5	1.5	0.54	0.6
			C8745	70.5	72.0	1.5	0.02	1.4
82.55m	114.9m	CRYSTAL TUFF	C8746	72.0	73.50	1.5	3.87	0.5
270.8'	376.9'		C8747	73.50	74.50	1.0	0.91	0.5
			C8748	74.5	75.80	1.30	0.15	0.6
114.9m	124.0m	CRYSTAL TUFF - FINE GRAINED	C8749	75.80	77.30	1.50	10.97	2.2
376.9'	406.7'		C8750	77.30	78.80	1.50	0.70	0.6
	124.0	END OF HOLE						
	406.7'							









PROJECT # 1050

File # 1050-01-85

## AMAX MINERALS EXPLORATION

## ASSAY SUMMARY SHEET

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SWASTIKA		Lab.			
		From	To		Au	Ag	Au			
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM
C8726		19.3	21.5	2.2	0.01	Nil				
C8727		21.5	23.0	1.5	Nil	Nil				
C8728		23.0	24.5	1.5	0.31	0.4				
C8729		24.5	26.0	1.5	0.13	Nil				
C8730		26.00	27.00	1.0	0.04	Nil				
C8731		27.00	28.50	1.5	0.03	Nil				
C8732		28.50	30.00	1.5	0.01	Nil				
C8733		30.00	31.50	1.5	2.15 2.06	0.4				
C8734		31.50	33.00	1.5	0.03	Nil				
C8735		33.00	34.00	1.0	0.02	Nil				
C8736		55.5	57.00	1.5	0.37	0.5				
C8737		57.00	58.50	1.5	0.36	0.5				
C8738		58.50	60.00	1.5	0.06	0.3				
C8739		61.50	63.00	1.5	0.16	0.3				
C8740		63.00	64.50	1.5	1.00 2.69	0.7				
C8741		64.50	66.00	1.5	0.08	0.2				
C8742		66.00	67.50	1.5	0.08	0.2				
C8743		67.50	69.00	1.5	Nil	0.2				
C8744		69.00	70.5	1.5	0.54	0.6				
C8745		70.5	72.00	1.5	9.02 8.57	1.4				
C8746		72.00	73.50	1.5	3.87 3.77	0.5				

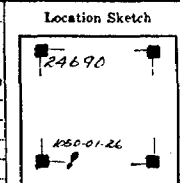


**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Collar Elevation = 4963'

Hole No. 1050-Q1-26

Hole No. 1050-Q1-26 Sheet 1	Length 141.0 metres (462.5')	Commenced January 20, 1981	Dip: Collar -45°
Property Mirado Nickel	Bearing S 35° W	Completed January 22, 1981	
Township Catharine	Dip -45°	Drilling Co. St. Lambert Drilling	Etch Test
Location L-2+32E at 0+01N (Section J)	Objective To check Mirado "C" ore block	Core Size BQ	Depth Rdg. True 1 60.0m -49½° -41° 2 140.0m -48° -39½°
Logged By F. J. Sugden		Casing Left/Lost in Hole None	
Core Location Timmins			



Remarks \_\_\_\_\_

Footage /metres		DESCRIPTION	Sample No.	From Metres	To Metres	Length Metres	Au (ppm)	Ag (ppm)
From	To							
0 m	14.4 m	OVERBURDEN	C8754	14.4	15.9	1.5	0.56	Nil
0	47.2'		C8755	15.9	17.4	1.5	0.09	Nil
14.4 m	37.9 m	INTERMEDIATE AGGLOMERATE	C8756	17.4	18.9	1.5	0.24	0.2
47.2'	124.3'		C8757	18.9	20.4	1.5	0.46	Nil
			C8758	20.4	21.9	1.5	0.06	Nil
37.9 m	39.3 m	INTERMEDIATE LAVA	C8759	21.9	23.4	1.5	0.20	0.3
124.3'	128.9'		C8760	23.4	24.9	1.5	0.27	0.4
			C8761	24.9	26.4	1.5	0.10	0.3
39.3 m	54.9 m	INTERMEDIATE AGGLOMERATE	C8762	26.4	27.9	1.5	0.13	0.2
128.9'	180.1'		C8763	27.9	29.4	1.5	0.04	Nil
			C8764	29.4	30.9	1.5	0.43	0.4
54.9 m	68.7 m	LAPILLI TUFF	C8765	30.9	32.4	1.5	0.34	0.7
180.1'	225.3'		C8766	32.4	33.9	1.5	0.03	0.2
			C8767	33.9	35.4	1.5	0.03	Nil
68.7 m	73.4 m	INTERMEDIATE AGGLOMERATE	C8768	35.4	36.9	1.5	0.27	0.7
225.3'	240.8'		C8769	36.9	37.9	1.00	0.35	0.8
			C0994	37.9	39.3	1.4	0.05	Nil
73.4 m	84.8 m	LAPILLI TUFF	C8770	39.3	40.8	1.5	Nil	0.2
240.8'	278.1'		C8771	40.8	42.3	1.5	0.03	0.2
			C8772	42.3	43.8	1.5	0.03	0.2
84.8 m	94.9 m	CRYSTAL TUFF - MEDIUM GRAINED	C8773	43.8	45.3	1.5	Nil	Nil
278.1'	311.3'		C8774	45.3	46.8	1.5	0.01	Nil
			C8775	46.8	48.3	1.5	0.01	0.2
94.9 m	113.7 m	CRYSTAL TUFF - FINE GRAINED	C8776	48.3	49.8	1.5	0.14	1.0
311.3'	372.9'		C8777	49.8	51.3	1.5	0.13	0.2
			C8778	51.3	52.8	1.5	0.01	Nil
			C8779	52.8	54.9	2.1	Nil	Nil



**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-26  
Sheet No. 3

Footage / metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm						
From	To													
0	14.4m	OVERBURDEN												
0	47.2'													
14.4m	37.9m	INTERMEDIATE AGGLOMERATE  Medium greyish green. Massive. Not carbonatized. Mafic matrix with numerous fragments up to 10 cm. Mainly acidic to intermediate. Scattered py. up to 6-8% as small clots and irregular seams.	C8754	14.4	15.9	1.5	0.56	Ni1						
47.2'	124.3'		C8755	15.9	17.4	1.5	0.09	Ni1						
			C8756	17.4	18.9	1.5	0.24	0.2						
			C8757	18.9	20.4	1.5	0.46	Ni1						
			C8758	20.4	21.9	1.5	0.06	Ni1						
			C8759	21.9	23.4	1.5	0.20	0.3						
			C8760	23.4	24.9	1.5	0.27	0.4						
			C8761	24.9	26.4	1.5	0.10	0.3						
37.9m	39.3m	INTERMEDIATE LAVA  Medium green, massive. Not carbonatized. Negligible py.	C8762	26.4	27.9	1.5	0.13	0.2						
124.3'	128.9'		C8763	27.9	29.4	1.5	0.04	Ni1						
			C8764	29.4	30.9	1.5	0.43	0.4						
			C8765	30.9	32.4	1.5	0.34	0.7						
			C8766	32.4	33.9	1.5	0.03	0.2						
39.3m	54.9m	INTERMEDIATE AGGLOMERATE  As above  39.3 - 44.0 Pyrite as 14.4 to 37.9 except that mineralization decreases downhole.  44.0 - 54.9 Very spotty py. locally negligible.  54.9 - 54.7 Quartz feldspar stringer nearly parallel to core with 4 mm chloritic seam along one wall.	C8767	33.9	35.4	1.5	0.03	Ni1						
128.9'	180.1'		C8768	35.4	36.9	1.5	0.27	0.7						
			C8769	36.9	37.9	1.0	0.35	0.8						
			C0994	37.9	38.3	1.4	0.05	Ni1						
			C8770	39.3	40.8	1.5	Ni1	0.2						
			C8771	40.8	42.3	1.5	0.03	0.2						
			C8772	42.3	43.8	1.5	0.03	0.2						
			C8773	43.8	45.3	1.5	Ni1	Ni1						
			C8774	45.3	46.8	1.5	0.01	Ni1						
			C8775	46.8	48.3	1.5	0.01	0.2						
54.9m	68.7m	LAPILLI TUFF  Medium green, massive. Numerous acidic fragments up to 5 mm. Not carbonatized. Occasional larger acid fragments.  54.9 - 62.4 Spotty py disseminated and in small clots.  62.4 - 66.2 10% py as clots and irregular seams	C8776	48.3	49.8	1.5	0.14	1.0						
180.1'	225.3'		C8777	49.8	51.3	1.5	0.13	0.2						
			C8778	51.3	52.8	1.5	0.01	Ni1						
			C8779	52.8	54.9	2.1	Ni1	Ni1						
			C8780	54.9	56.4	1.5	Ni1	Ni1						
			C8781	56.4	57.9	1.5	0.01	0.2						
			C8782	57.9	59.4	1.5	Ni1	0.2						
			C8783	59.4	60.9	1.5	Ni1	Ni1						
			C8784	60.9	62.4	1.5	0.06	0.2						
			C8785	62.4	63.9	1.5	0.07	0.2						
			C8786	63.9	65.4	1.5	2.74	0.6						
		C8787	65.4	66.2	0.8	6.46	0.6							
		C8788	66.2	67.7	1.5	0.01	Ni1							
		C8789	67.7	68.7	1.00	0.02	Ni1							

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-26

Sheet No. 4

Footage/metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
68.7m	73.4m	INTERMEDIATE AGGLOMERATE	C8790	68.7	70.2	1.5	10.63	1.5							
225.3'	240.8'	Numerous acid fragments up to 10 cm. 3-4% disseminated py.	C8791	70.2	71.1	1.5	1.02	0.2							
			C8792	71.7	73.4	1.7	0.03	Nil							
73.4m	84.8m	LAPILLI TUFF	C8793	73.4	74.9	1.5	0.03	0.2							
240.8'	278.1'	Medium greyish green, massive. Not carbonatized. Numerous acidic fragments up to 4-5 mm. 2-3% disseminated py.	C8794	76.4	76.4	1.5	0.01	Nil							
			C8795	76.4	77.9	1.5	0.03	Nil							
			C8796	77.9	79.4	1.5	0.03	Nil							
			C8797	79.4	80.9	1.5	0.03	0.2							
84.8m	94.9m	CRYSTAL TUFF - MEDIUM GRAINED	C8798	80.9	82.4	1.5	0.07	0.3							
278.1'	311.3'	Massive, medium greyish green. Not carbonatized. Fine grained matrix with close packed 2-3 mm fragments. Mostly acidic. Negligible py.	C8799	82.4	83.9	1.5	0.06	0.2							
			C8800	83.9	84.8	0.9	0.01	Nil							
94.9m	113.7m	CRYSTAL TUFF - FINE GRAINED													
311.3'	372.9'	Medium green. Massive. Fine grained matrix with minute acidic fragments. Negligible py.													
113.7m	118.6m	DIORITE													
372.9'	389.0'	Upper contact sharp at 55°. Dark green, massive, fine grained. Not carbonatized. Negligible mineralization. Lower contact sharp at 50 to 55°.													
118.6m	127.75m	CRYSTAL TUFF - FINE GRAINED													
389.0'	419.0'	As above. negligible py.													
127.75m	129.15m	CRYSTAL TUFF	C8801	127.75	128.80	1.05	0.42	0.4							
419.0'	423.6'	Slightly more mafic than above. Not carbonatized. Upper contact sharp at 55°. 7-8% py in small clots and disseminated.	C8802	128.8	129.15	0.35	0.03	0.4							





PROJECT # 1050

Hole # 1050-01-26

## AMAX MINERALS EXPLORATION

## ASSAY SUMMARY SHEET

Amax	Lab.				Lab.					
Sample No.	Sample No.	Interval		Sample Width	SWASTIKA					
		From	To		Au	Ag	Au			
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM
C8754		14.4	15.9	1.5	0.56	Nil				
C8755		15.9	17.4	1.5	0.09	Nil				
C8756		17.4	18.9	1.5	0.24	0.2				
C8757		18.9	20.4	1.5	0.46	Nil				
C8758		20.4	21.9	1.5	0.06	Nil				
C8759		21.9	23.4	1.5	0.20 0.18	0.3				
C8760		23.4	24.9	1.5	0.27	0.4				
C8761		24.9	26.4	1.5	0.10	0.3				
C8762		26.4	27.9	1.5	0.13	0.2				
C8763		27.9	29.4	1.5	0.04	Nil				
C8764		29.4	30.9	1.5	0.43	0.4				
C8765		30.9	32.4	1.5	0.34	0.7				
C8766		32.4	33.9	1.5	0.03	0.2				
C8767		33.9	35.4	1.5	0.03	Nil				
C8768		35.4	36.9	1.5	0.27	0.7				
C8769		36.9	37.9	1.00	0.35	0.8				
C8770		39.3	40.8	1.5	Nil	0.2				
C8771		40.8	42.3	1.5	0.03	0.2				
C8772		42.3	43.8	1.5	0.03	0.2				
C8773		43.8	45.3	1.5	Nil	Nil				
C8774		45.3	46.8	1.5	0.01	Nil				

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

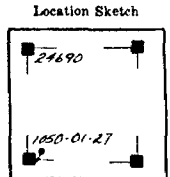
Amax	Lab.				Lab.					
Sample No.	Sample No.	Interval		Sample Width	SWASTIKA					
		From	To		Au	Ag	Au			
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM
C8775		46.8	48.3	1.5	0.01	0.2				
C8776		48.3	49.8	1.5	0.14	1.0				
C8777		49.8	51.3	1.5	0.13	0.2				
C8778		51.3	52.8	1.5	0.01 0.01	Nil				
C8779		52.8	54.9	2.1	Nil	Nil				
C8780		54.9	56.4	1.5	Nil	Nil				
C8781		56.4	57.9	1.5	0.01	0.2				
C8782		57.9	59.4	1.5	Nil	0.2				
C8783		59.4	60.9	1.5	Nil	Nil				
C8784		60.9	62.4	1.5	0.06	0.2				
C8785		62.4	63.9	1.5	0.07	0.2				
C8786		63.9	65.4	1.5	2.07 2.74	0.6				
C8787		65.4	66.2	0.8	6.46 6.17	0.6				
C8788		66.2	67.7	1.5	0.01	Nil				
C8789		67.7	68.7	1.00	0.02	Nil				
C8790		68.7	70.2	1.5	9.36 10.63	1.5				
C8791		70.2	71.7	1.5	1.02 0.69	0.2				
C8792		71.7	73.4	1.7	0.03	Nil				
C8793		73.4	74.9	1.5	0.03	0.2				
C8794		74.9	76.4	1.5	0.01	Nil				
C8795		76.4	77.9	1.5	0.03	Nil				



**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Collar Elevation = 4964'

Hole No. 1050-01-27

Hole No. 1050-01-27 Sheet 1	Length 128.75 metres (422.3')	Commenced January 22, 1981	Dip: Collar -45°	Location Sketch 
Property Mirado Nickel	Bearing S 35° W	Completed January 24, 1981	Etch Test 1	
Township Catharine	Dip -45°	Drilling Co. St. Lambert Drilling	Depth 75.0m	
Location L - 1+64½E at 0+04S (Section I)	Objective To check Mirado "C" ore block	Core Size BQ	Rdg. 0 -47½° Trye 0 -39°	
Logged By J. F. Sugden		Casing Left/Lost in Hole None	2	128.75m -49½° -41°
Core Location Timmins				
Remarks				Claim No. 24690 Scale: 1" = 1320'

Footage /metres		DESCRIPTION	Sample No.	From Metres	To Metres	Length Metres	Au (ppm)	Ag (ppm)				
From	To											
0	11.2m	OVERBURDEN	C8804	17.6	18.6	1.00	0.04	Ni1				
	36.7'		C8805	18.6	19.5	0.90	0.17	0.2				
			C8806	19.5	21.0	1.50	3.88	0.6				
11.2m	17.6m	INTERMEDIATE AGGLOMERATE	C8807	21.0	22.5	1.50	0.16	0.2				
36.7'	57.7'		C8808	22.5	24.0	1.50	0.35	0.5				
			C8809	24.0	25.5	1.50	0.13	0.3				
17.6m	38.35m	LAPILLI TUFF	C8810	25.5	27.0	1.50	0.24	0.2				
57.7'	125.8'		C8811	27.0	28.5	1.50	0.27	0.2				
			C8812	28.5	29.6	1.10	0.27	0.2				
38.35m	40.6m	CRYSTAL TUFF	C8813	29.6	30.5	0.90	0.03	Ni1				
125.8'	133.2'		C8814	30.5	32.0	1.50	Ni1	Ni1				
			C8815	32.0	33.5	1.50	0.01	Ni1				
40.6m	70.75m	LAPILLI TUFF	C8816	33.5	35.0	1.50	0.03	Ni1				
133.2'	232.1'		C8817	35.0	36.5	1.50	0.13	0.2				
			C8818	36.5	38.0	1.50	0.16	0.3				
70.75m	71.95m	DIORITE	C8819	38.0	39.5	1.50	Ni1	Ni1				
232.1'	236.0'		C8820	39.5	41.0	1.50	0.01	Ni1				
			C8821	41.0	42.5	1.50	0.02	Ni1				
71.95m	76.6m	MAFIC UNIT - LAPILLI TUFF AND SOME DIORITE?	C8822	42.5	44.0	1.50	0.32	0.2				
236.0'	251.2'		C8823	44.0	45.0	1.00	0.41	0.3				
			C8824	45.0	46.0	1.00	0.01	Ni1				
76.6m	79.65m	CRYSTAL TUFF	C8825	46.0	47.5	1.50	0.15	0.4				
251.2'	261.3'		C8826	47.5	49.0	1.50	Ni1	Ni1				
			C8827	49.0	50.5	1.50	Ni1	Ni1				
79.65m	81.9m	DIORITE	C8828	50.5	51.5	1.00	0.03	Ni1				
261.3'	268.6'		C8829	51.5	52.8	1.30	0.03	Ni1				
			C8830	52.8	53.8	1.00	0.00	1.1				
81.9m	128.75m	CRYSTAL TUFF	C8831	53.8	55.3	1.50	Ni1	Ni1				
268.6'	422.3'	(422.3') 128.75 END OF HOLE	C8832	55.3	56.8	1.50	0.01	Ni1				

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-27

Sheet No. 1a

Footage		DESCRIPTION	Sample No.	From Metres	To Metres	Length Metres	Au (ppm)	Ag (ppm)				
From	To											
			C8833	56.8	58.3	1.50	0.07	0.2				
			C8834	58.3	59.8	1.50	0.11	0.2				
			C8835	59.8	60.8	1.00	0.16	0.2				
			C8836	60.8	61.8	1.00	0.03	Nil				
			C8837	61.8	63.3	1.50	0.11	Nil				
			C8838	63.3	64.8	1.50	0.27	Nil				
			C8839	64.8	66.3	1.50	0.17	0.3				
			C8840	66.3	67.8	1.50	2.74	1.1				
			C8841	67.8	69.3	1.50	0.86	0.8				
			C8842	69.3	70.75	1.45	0.38	0.4				
			C0995	70.75	71.95	1.20	0.23	Nil				
			C8843	71.95	73.45	1.50	0.16	Nil				
			C8844	73.45	74.95	1.50	0.23	Nil				
			C8845	74.95	76.60	1.65	0.07	Nil				
			C15084	76.6	79.0	2.40	0.13					
			C15085	79.0	82.0	3.00	0.08					
			C15086	82.0	84.0	2.00	0.06					
			C0996	84.0	85.5	1.50	Nil	Nil				
			C0997	85.5	87.0	1.50	Nil	Nil				
			C8846	87.0	88.5	1.50	0.79	0.3				
			C8847	88.5	90.0	1.50	0.63	0.2				
			C0998	90.0	91.5	1.50	0.24	Nil				
			C0999	91.5	93.0	1.50	0.08	Nil				
			C15087	93.0	96.0	3.00	0.17					
			C15088	96.0	99.0	3.00	0.19					
			C15089	99.0	102.0	3.00	1.83					
			C1000	102.0	103.5	1.50	1.93	Nil				
			C1001	103.5	104.8	1.30	1.72	0.2				
			C8848	104.8	106.3	1.50	1.83	0.3				
			C8849	106.3	107.8	1.50	0.15	Nil				
			C8850	107.8	109.3	1.50	0.25	0.2				
			C8851	109.3	110.8	1.50	1.37	0.2				
			C8852	110.8	112.3	1.50	0.03	0.2				
			C8853	112.3	114.5	2.20	0.06	0.2				

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-27  
Sheet No. 2

Footage/metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
0	11.2m	OVERBURDEN											
0	36.7'												
11.2m	17.6m	INTERMEDIATE AGGLOMERATE											
36.7'	57.7'	Medium to dark greyish green. Not carbonatized. Massive. Sparsely distributed acid to basic fragments up to 5 cm in fine grained mafic matrix. Negligible py.											
17.6m	38.35m	LAPILLI TUFF	C8804	17.6	18.6	1.00	0.04	Nil					
57.7'	125.8'	Dark greyish green. Massive. Not carbonatized. Numerous small fragments up to 10 mm and rare larger fragments.	C8805	18.6	19.5	0.90	0.17	0.2					
			C8806	19.5	21.0	1.50	3.88	0.6					
			C8807	21.0	22.5	1.50	0.16	0.2					
			C8808	22.5	24.0	1.50	0.35	0.5					
		19.5 - 29.6 4-5% py disseminated and in occasional small clots	C8809	24.0	25.5	1.50	0.13	0.3					
			C8810	25.5	27.0	1.50	0.24	0.2					
			C8811	27.0	28.5	1.50	0.27	0.2					
		35.9 - 38.35 Numerous angular to subangular mafic fragments up to 10 mm in grey, fine grained matrix. Negligible py.	C8812	28.5	29.6	1.10	0.27	0.2					
			C8813	29.6	30.5	0.90	0.03	Nil					
			C8814	30.5	32.0	1.50	Nil	Nil					
			C8815	32.0	33.5	1.50	0.01	Nil					
38.35m	40.6m	CRYSTAL TUFF	C8816	33.5	35.0	1.50	0.03	Nil					
125.8'	133.2'	Medium green. Massive. Not carbonatized. Upper contact at 35° and sharp lower contact at 40°. Negligible py.	C8817	35.0	36.5	1.50	0.13	0.2					
			C8818	36.5	38.0	1.50	0.16	0.3					
			C8819	38.0	39.5	1.50	Nil	Nil					
40.6m	70.75m	LAPILLI TUFF	C8820	39.5	41.0	1.50	0.01	Nil					
133.2'	232.1'	As 17.6 - 35.9 Massive Not carbonatized. Composition varies from few to numerous small fragments with occasional fragments up to 15 cm. Acid and mafic.	C8821	41.0	42.5	1.50	0.02	Nil					
			C8822	42.5	44.0	1.50	0.32	0.2					
			C8823	44.0	45.0	1.00	0.41	0.3					
			C8824	45.0	46.0	1.00	0.01	Nil					
			C8825	46.0	47.5	1.50	0.15	0.4					
		35.9 - 38.35 As above. Negligible py.	C8826	47.5	49.0	1.50	Nil	Nil					
			C8827	49.0	50.0	1.50	Nil	Nil					
		44.0 - 47.5 5% py disseminated erratically throughout	C8828	50.5	51.5	1.00	0.03	Nil					
			C8829	51.5	52.8	1.30	0.03	Nil					
		47.5 - 52.8 Weak disseminated py.	C8830	52.8	53.8	1.00	1.00	1.1					
			C8831	53.8	55.3	1.50	Nil	Nil					
			C8832	55.3	56.8	1.50	0.01	Nil					
			C8833	56.8	58.3	1.50	0.07	0.2					

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-D1-27  
Sheet No. 3

Footage/metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
40.6m	70.75m	Continued	C8834	58.3	59.8	1.50	0.11	0.2					
133.2'	232.1'		C8835	59.8	60.8	1.00	0.16	0.2					
		52.8 - 53.8	C8836	60.8	61.8	1.00	0.03	Nil					
		10% py in seams, disseminated + 2 cm py veinlet at 60°	C8837	61.8	63.3	1.50	0.11	Nil					
			C8838	63.3	64.8	1.50	0.27	Nil					
		61.8 - 70.75	C8839	64.8	66.3	1.50	0.17	0.3					
		8% py in irregular seams and disseminated	C8840	66.3	67.8	1.50	2.74	1.1					
70.75m	71.95m	DIORITE	C8841	67.8	69.3	1.50	0.86	0.8					
232.1'	236.0'		C8842	69.3	70.75	1.45	0.38	0.4					
		Upper contact sharp at 40°. Dark green. Massive. Mineralization nil. Lower contact at 45°	C0995	70.75	71.95	1.20	0.23	Nil					
71.95m	76.6m	MAFIC UNIT - LAPILLI TUFF AND SOME DIORITE?	C8843	71.95	73.45	1.50	0.16	Nil					
236.0'	251.2'		C8844	73.95	74.95	1.50	0.23	Nil					
		Dark green. Massive. Lapilli tuff but probably includes some diorite. 2-3% finely disseminated py.	C8845	74.95	76.6	1.65	0.07	Nil					
76.6m	79.65m	CRYSTAL TUFF	C15084	76.6	79.0	2.40	0.13						
251.2'	261.3'												
		Upper contact at 25°. Grading locally to lapilli tuff with mafic fragments up to 4 mm in light grey, fine grained matrix. Negligible py.											
79.65m	81.9m	DIORITE	C15085	79.0	82.0	3.00	0.08						
261.3'	268.6'												
		Upper contact at 60°. Dark green. Massive. Fine grained. Negligible py.											
81.9m	128.75m	CRYSTAL TUFF	C15086	82.0	84.0	2.00	0.06						
268.6'	422.3'		C0996	84.0	85.5	1.50	Nil	Nil					
		Massive. Medium to dark grey. Not carbonatized. Locally very siliceous (Mirado - rhyolite?). Close packed acid fragments up to 2 mm. Up to 2% finely disseminated py throughout and local heavier py concentrations.	C0997	85.5	87.0	1.50	Nil	Nil					
			C8846	87.0	88.5	1.50	0.79	0.3					
			C8847	88.5	90.0	1.50	0.63	0.2					
			C0998	90.0	91.5	1.50	0.24	Nil					
			C0999	91.5	93.0	1.50	0.08	Nil					
			C15087	93.0	96.0	3.00	0.17						
			C15088	96.0	99.0	3.00	0.19						
			C15089	99.0	102.0	3.00	1.83						







PROJECT # 1050

Hole # 1050-01-27

## A MAX MINERALS EXPLORATION

## ASSAY SUMMARY SHEET

Amax	Lab.				Lab.					
Sample No.	Sample No.	Interval		Sample Width	SWASTIKA					
		From	To		Au	Ag	Au			
		Metres	Metres	Metres	PPM	PPM	PPM	PPM	PPM	PPM
C8804		17.6	18.6	1.00	0.04	NIL				
C8805		18.6	19.5	0.90	0.17	0.2				
C8806		19.5	21.02	1.50	3.88 3.77	0.6				
C8807		21.0	22.5	1.50	0.16	0.2				
C8808		22.5	24.0	1.50	0.35	0.5				
C8809		24.02	25.5	1.50	0.13	0.3				
C8810		25.5	27.0	1.50	0.24	0.2				
C8811		27.0	28.5	1.50	0.27	0.2				
C8812		28.5	29.6	1.10	0.27	0.2				
C8813		29.6	30.5	0.90	0.03	NIL				
C8814		30.5	32.0	1.50	NIL	NIL				
C8815		32.0	33.5	1.50	0.01	NIL				
C8816		33.5	35.0	1.50	0.03	NIL				
C8817		35.0	36.5	1.50	0.13	0.2				
C8818		36.5	38.0	1.50	0.16	0.3				
C8819		38.0	39.5	1.50	NIL	NIL				
C8820		39.5	41.0	1.50	0.01	NIL				
C8821		41.00	42.5	1.50	0.02	NIL				
C8822		42.5	44.0	1.50	0.32	0.2				
C8823		44.0	45.0	1.00	0.41	0.3				
C8824		45.0	46.0	1.00	0.01	NIL				

## A MAX MINERALS EXPLORATION

## ASSAY SUMMARY SHEET

Amax	Lab.	Interval			Sample Width	SWASTIKA					
Sample No.	Sample No.	From	To		Au	Ag	Au				
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM	PPM
C8825		46.0	47.5	1.50	0.15	0.4					
C8826		47.5	49.0	1.50	NIL	NIL					
C8827		49.0	50.5	1.50	NIL	NIL					
C8828		50.5	51.5	1.00	0.03	NIL					
C8829		51.5	52.8	1.30	0.03	NIL					
C8830		52.8	53.8	1.00	0.85 1.00	1.1					
C8831		53.8	55.3	1.50	NIL	NIL					
C8832		55.3	56.8	1.50	0.01	NIL					
C8833		56.8	58.3	1.50	0.07	0.2					
C8834		58.3	59.8	1.50	0.11	0.2					
C8835		59.8	60.8	1.00	0.16	0.2					
C8836		60.8	61.8	1.00	0.03	NIL					
C8837		61.8	63.3	1.50	0.11	NIL					
C8838		63.3	64.8	1.50	0.27	NIL					
C8839		64.8	66.3	1.50	0.17	0.3					
C8840		66.3	67.8	1.50	2.51 2.74	1.1					
C8841		67.8	69.3	1.50	0.86	0.8					
C8842		69.3	70.75	1.45	0.38	0.4					
C8843		71.95	73.45	1.50	0.16	NIL					
C8844		73.45	74.95	1.50	0.23	NIL					
C8845		74.95	76.60	1.65	0.07	NIL					



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Collar Elevation = 4964'

Hole No. 1050-01-28

Hole No. 1050-01-28 Sheet 1	Length 96.0 metres (314.9')	Commenced January 24, 1981	Dip: Collar -45°	Location Sketch North ↑ Claim No. 24690 Scale: 1" = 320'
Property Mirado Nickel	Bearing S 35° W	Completed January 25, 1981	Etch Test 1	
Township Catharine	Dip -45°	Drilling Co. St. Lambert Drilling	Depth 36.0m	
Location L-1+13E at 0+02N (Section H)	Objective To check Mirado's "C" ore block	Core Size BQ	Rdg. -46°	
Logged By J. F. Sugden		Casing Left/Lost in Hole None	True -37½°	
Core Location Timmins				

Remarks \_\_\_\_\_

Footage/ metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm		
From	To									
0	16.4m	OVERBURDEN								
0	53.8'									
16.4m	17.0m	INTERMEDIATE AGGLOMERATE	C8854	16.4	17.9	1.5	0.10	0.2		
53.8'	55.8'		C8855	17.9	19.4	1.5	0.10	NIL		
			C8856	19.4	20.9	1.5	0.14	NIL		
			C8857	20.9	22.4	1.5	0.04	NIL		
			C8858	22.4	23.9	1.5	0.10	0.2		
17.0m	34.3m	LAPILLI TUFF	C8859	23.9	25.4	1.5	0.04	NIL		
55.8'	112.5'		C8860	25.4	26.9	1.5	0.05	0.2		
			C8861	26.9	28.4	1.5	0.07	0.2		
34.3m	41.8m	DIORITE - 40.2 - 40.5 MINERALIZED TUFF INCLUSION	C8862	28.4	29.9	1.5	16/12	NIL		
112.5'	137.1'		C8863	29.9	31.4	1.5	0.10	NIL		
			C8864	31.4	32.9	1.5	0.10	0.2		
41.8m	72.3m	LAPILLI TUFF	C8865	32.9	34.3	1.4	0.03	0.2		
137.1'	237.1'		C8866	40.2	40.5	0.3	0.07	0.3		
			C1002	40.5	41.8	1.3	0.18	NIL		
72.3m	96.0m	CRYSTAL TUFF (MAINLY LAPILLI TUFF)	C8867	41.8	43.3	1.5	0.30	NIL		
237.1'	314.9'		C8868	43.3	44.8	1.5	0.51	NIL		
			C8869	44.8	46.3	1.5	2.93	0.4		
	96.0m	END OF HOLE					3.43			
	314.9'		C8870	46.3	47.8	1.5	92/94	0.3		
			C8871	47.8	49.3	1.5	0.28	0.3		
			C8872	49.3	50.8	1.5	0.75	0.4		
			C8873	50.8	52.3	1.5	0.64	0.2		
			C8874	52.3	53.8	1.5	0.24	NIL		
			C8875	53.8	54.3	0.5	0.03	NIL		
			C1003	54.3	55.05	0.75	0.01	NIL		
			C8876	55.05	56.55	1.5	0.39	0.3		
			C8877	56.55	59.05	1.5	38/44	0.3		



**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-28  
Sheet No. 2

Footage/metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
0	16.4	OVERBURDEN										
0	53.8'											
16.4m	17.0m	INTERMEDIATE AGGLOMERATE	C8854	16.4	17.9	1.5	0.10	0.2				
53.8'	55.8'											
		Medium green, massive, acid fragments in mafic matrix. 2% disseminated py.										
17.0m	34.3m	LAPILLI TUFF	C8855	17.9	19.4	1.5	0.10	NIL				
55.8'	112.5'											
		Medium green, massive, not carbonatized. Numerous fragments from 3 to 30 mm. Larger fragments in upper part. Lower contact sharp at 50'. 2% disseminated py, locally 3-4%.										
			C8856	19.4	20.9	1.5	0.14	NIL				
			C8857	20.9	22.4	1.5	0.04	NIL				
			C8858	22.4	23.9	1.5	0.10	0.2				
			C8859	23.9	25.4	1.5	0.04	NIL				
			C8860	25.4	26.9	1.5	0.05	0.2				
		32.4 - 32.6 Well banded tuff at 40-45'. Light green.	C8861	26.9	28.4	1.5	0.07	0.2				
			C8862	28.4	29.9	1.5	0.16	0.12	NIL			
34.3m	41.8m	DIORITE	C8863	29.9	31.4	1.5	0.10	NIL				
112.5'	137.1'											
		Dark green, massive. Both contacts @ 50', sharp and chilled. Negligible py. Several small sharp-edged pyroclastic inclusions.	C8864	31.4	32.9	1.5	0.10	0.2				
			C8865	32.9	34.3	1.4	0.03	0.2				
			C8866	40.2	40.5	0.3	0.07	0.3				
			C1002	40.5	41.8	1.3	0.18	NIL				
		40.2 - 40.5 Lapilli tuff inclusion with py stringers and clots near lower contact										
41.8m	72.3m	LAPILLI TUFF	C8867	41.3	43.3	1.5	0.30	NIL				
137.1'	237.1'											
		As above.	C8868	43.3	44.8	1.5	0.51	NIL				
			C8869	44.8	46.3	1.5	2.93	0.4				
			C8870	46.3	47.8	1.5	92	940.3				
		41.8 - 45.5 2% disseminated py	C8871	47.8	49.3	1.5	0.28	0.3				
			C8872	49.3	50.8	1.5	0.75	0.4				
			C8873	50.8	52.3	1.5	0.64	0.2				
		45.5 - 54.3 Erratic py up to 8-10% over short sections as seams and small clots	C8874	52.3	53.8	1.5	0.24	NIL				
			C8875	53.8	54.3	0.5	0.03	NIL				
			C1003	54.3	55.05	0.75	0.01	NIL				
		54.3 - 55.05 Intermediate lava. Medium green, massive. Negligible py.	C8876	55.05	56.55	1.5	0.39	0.3				
			C8877	56.55	59.05	1.5	38	440.3				
			C8878	58.05	59.7	1.65	0.23	NIL				
		55.05- 59.7 Mineralization as above.	C1004	59.7	60.55	0.85	0.02	NIL				
			C8879	60.55	62.05	1.5	0.20	0.2				





PROJECT # 1050

Hole # 1050-01-28

## AMAX MINERALS EXPLORATION

## ASSAY SUMMARY SHEET

Amax	Lab.	Interval			Sample Width	SARASTIKA					
Sample No.	Sample No.	From	To	Width	Au	Ag	Au				
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM	PPM
C8854		16.4	17.9	1.50	0.10	0.2					
C8855		17.9	19.4	1.50	0.10	Nil					
C8856		19.4	20.9	1.50	0.14	Nil					
C8857		20.9	22.4	1.50	0.04	Nil					
C8858		22.4	23.9	1.50	0.10	0.2					
C8859		23.9	25.4	1.50	0.04	Nil					
C8860		25.4	26.9	1.50	0.05	0.2					
C8861		26.9	28.4	1.50	0.07	0.2					
C8862		28.4	29.9	1.50	0.16 0.12	Nil					
C8863		29.9	31.4	1.50	0.10	Nil					
C8864		31.4	32.9	1.50	0.10	0.2					
C8865		32.9	34.3	1.40	0.03	0.2					
C8866		40.2	40.5	0.30	0.07	0.3					
C8867		41.8	43.3	1.50	0.30	Nil					
C8868		43.3	44.8	1.50	0.51	Nil					
C8869		44.8	46.3	1.50	2.93 3.43	0.4					
C8870		46.3	47.8	1.50	0.92 0.94	0.3					
C8871		47.8	49.3	1.50	0.28	0.3					
C8872		49.3	50.8	1.50	0.75 0.75	0.4					
C8873		50.8	52.3	1.50	0.64	0.2					
C8874		52.3	53.8	1.50	0.24	Nil					

PROJECT # 1050

Hole # 1050-01-28

## AMAX MINERALS EXPLORATION

## ASSAY SUMMARY SHEET

Amax	Lab.	Interval		Sample Width	SWASTIKA					
Sample No.	Sample No.	From	To		Au	Ag	Au			
		Meters	Meters	Meters	ppm	ppm	ppm	ppm	ppm	ppm
C8875		53.8	54.3	0.50	0.03	Nil				
C8876		55.05	56.55	1.50	0.39	0.3				
C8877		56.55	58.05	1.50	0.44 0.38	0.3				
C8878		58.05	59.7	1.65	0.23	Nil				
C8879		60.55	62.05	1.50	0.20	0.2				
C8880		62.05	63.55	1.50	0.65	0.4				
C8881		63.55	65.05	1.50	0.35	0.3				
C8882		65.05	66.55	1.50	4.66 4.66	0.8				
C8883		66.55	68.05	1.50	2.69 2.85	0.7				
C8884		68.05	69.55	1.50	0.68	0.3				
C8885		69.55	71.05	1.50	0.51	0.2				
C8886		71.05	72.55	1.50	0.40	Nil				
C8887		72.55	74.05	1.50	0.25	0.2				
C8888		74.05	75.55	1.50	0.10	Nil				
C8889		75.55	77.05	1.50	2.74 3.22	0.3				
C8890		77.05	78.55	1.50	0.93 0.80	Nil				
C8891		78.55	80.05	1.50	3.70 3.29	0.2				
C8892		80.05	81.55	1.50	5.43 6.10	0.4				
C8893		81.55	83.05	1.50	2.00	Nil				
C8894		83.05	84.55	1.50	3.06	0.3				
C8895		84.55	86.05	1.50	55.54 56.91	6.0				









**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-29  
Sheet No. 3

Footage metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
0	7.7m	OVERBURDEN										
0	25.3'	Mainly clay with boulders near bedrock surface.										
7.7m	8.1m	AGGLOMERATE (BOULDER)?										
25.3'	26.6'	The agglomerate is composed of felsic fragments in a mafic matrix. The colour of the fragments is creamy grey, and the matrix is dark green (chloritic). The size of the fragments ranges from 1 inch to 3 inches. Less than 1% pyrite.										
8.1m	22.3m	LAPILLI TUFF	C8903	8.1	10.0	1.9	0.13	0.2				
26.6'	73.1'	The lapilli tuff has a speckled white and green colour. The fragments are felsic and range in size from 1/16 of an inch to 1". The matrix is dark green and mafic.	C8904	10.0	12.0	2.0	0.51	0.4				
		The pyrite mineralization is unevenly distributed and occurs as finely disseminated, in clots or in thin fractures.	C8905	12.0	13.5	1.5	0.10	0.2				
		Pyrite mineralization: 1 to 8%. Weak carbonitization.	C8906	13.5	15.0	1.5	0.03	NIL				
			C8907	15.0	16.5	1.5	0.14	NIL				
			C8908	16.5	18.0	1.5	0.06	NIL				
			C8909	18.0	19.5	1.5	0.10	NIL				
			C8910	19.5	21.0	1.5	0.17	0.3				
			C8911	21.0	22.3	1.3	0.14	NIL				
22.3m	54.8m	AGGLOMERATE	C8912	22.3	24.0	1.7	0.19	0.2				
73.1'	179.7'	The agglomerate is composed mainly of mafic fragments in a siliceous felsic matrix. Felsic fragments and some "cherty" fragments are also present in the agglomerate. The matrix is greenish grey with dark green mafic fragments and light green felsic fragments.	C8913	24.0	25.5	1.5	0.15	0.3				
		The size of the fragments ranges from 1/8" to 5".	C8914	25.5	27.0	1.5	0.06	NIL				
		The pyrite mineralization is unevenly distributed. The pyrite occurs as finely disseminated, in clots, in thin fractures, in narrow seams or associated with narrow quartz-calcite veins (less than 1/2" wide).	C8915	27.0	28.5	1.5	0.03	NIL				
			C8916	28.5	30.0	1.5	0.46	NIL				
			C8917	30.0	31.5	1.5	34	46NIL				
			C8918	31.5	33.0	1.5	1.08	0.4				
			C8919	33.0	34.5	1.5	0.27	NIL				
			C8920	34.5	36.0	1.5	0.44	0.3				
			C8921	36.0	37.5	1.5	0.29	0.3				
			C8922	37.5	39.0	1.5	0.38	0.6				
			C8923	39.0	40.5	1.5	4.80	0.9				
			C8924	40.5	42.0	1.5	13.03	1.7				
		The amount of pyrite ranges from 2% to 10%. The agglomerate is weakly carbonitized.	C8925	42.0	43.5	1.5	1.38	0.2				
			C8926	43.5	45.0	1.5	0.37	0.2				
			C8927	45.0	46.5	1.5	0.49	0.3				
		29.25 - 29.30: "Cherty" interflow with disseminated pyrite.	C8928	46.5	48.0	1.5	0.58	0.7				
		40.10 - 41.10: Shear plane parallel to the core axis.	C8929	48.0	49.5	1.5	0.47	0.9				



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-29  
Sheet No. 4

Footage metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
22.3 m	54.8 m	(Continued) 53.80 - 53.85: 30% of coarse-grained pyrite.	C8930	49.5	51.0	1.5	0.73	0.9				
73.1'	179.7'	54.75 - 54.80: "Siliceous Interflow" composed of quartz, calcite and small fragments. Disseminated pyrite. Bedding from core axis: 60°	C8931 C8932	51.0 52.5	52.5 54.0	1.5 1.5	0.14 0.72	0.3 1.1				
54.8 m	67.3 m	LAPILLI TUFF	C8933	54.0	55.5	1.5	0.13	0.3				
179.7'	220.7'	The lapilli tuff has the same composition as the above agglomerate but contains smaller fragments. The pyrite mineralization ranges from less than 1% to 10%. Average pyrite content is 2%. Same types of mineralization as in the agglomerate.	C8934 C8935 C8936 C8937 C8938 C8939	55.5 57.0 58.5 60.0 61.5 63.0	57.0 58.5 60.0 61.0 63.0 64.5	1.5 1.5 1.5 1.5 1.5 1.5	NIL 0.01 NIL 0.31 0.11 0.21	NIL NIL NIL NIL 0.3 0.4				
67.3 m	69.1 m	TUFF	C8941	66.0	67.5	1.5	0.01	NIL				
220.7'	226.6'	The tuff is medium green, and contains fragments generally smaller than 1/16", but lapilli size fragments up to 1/2" are present. Most of the fragments are mafic. Sharp upper contact at 45° from core axis and a more gradual lower contact. Negligible pyrite.	C8942	67.5	69.0	1.5	0.03	NIL				
69.1 m	75.6 m	LAPILLI TUFF	C8943	69.0	70.5	1.5	NIL	0.2				
226.6'	248.0'	As 54.8 to 67.3 Pyrite content: 1 to 6%. Weak carbonitization.	C8944 C8945 C8946	70.5 72.0 73.5 75.0	72.0 73.5 75.0	1.5 1.5 1.5	0.03 0.03 0.48	NIL NIL 0.4				
75.6 m	90.0 m	AGGLOMERATE	C8947	75.0	76.5	1.5	0.21	0.3				
248.0'	295.2'	As 22.3 to 54.8. Pyrite content: 1-8% 81.70 to 81.85: 20% pyrite 89.40 to 89.50: two 1/2" pyrite seams.	C8948 C8949 C8950 C8951 C8952 C8953 C8954 C8955 C8956	76.5 78.0 79.0 81.0 82.5 84.0 85.5 87.0 88.5 90.0	78.0 79.5 81.0 82.5 84.0 85.5 87.0 88.5 90.0	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	4.80 0.58 1.06 0.54 0.39 0.75 4.12 0.99 1.58	0.3 NIL 0.3 NIL 0.3 0.3 0.3 0.2 0.3				





PROJECT # 1050

HOPE # 1050 01-29

## A MAX MINERALS EXPLORATION

## ASSAY SUMMARY SHEET

Amax	Lab.				Lab.					
Sample No.	Sample No.	Interval		Sample Width	SWASTIKA					
		From	To		Au	Ag	Au			
		Metres	Metres	Metres	ppm	ppm	ppm	ppm	ppm	ppm
C8903		8.1	10.0	1.90	0.13	0.2				
C8904		10.0	12.0	2.00	0.51	0.4				
C8905		12.0	13.5	1.50	0.10	0.2				
C8906		13.5	15.0	1.50	0.03	Nil				
C8907		15.0	16.5	1.50	0.14	Nil				
C8908		16.5	18.0	1.50	0.06	Nil				
C8909		18.0	19.5	1.50	0.10	Nil				
C8910		19.5	21.0	1.50	0.17	0.3				
C8911		21.0	22.3	1.30	0.14	Nil				
C8912		22.3	24.0	1.70	0.19	0.2				
C8913		24.0	25.5	1.50	0.15	0.3				
C8914		25.5	27.0	1.50	0.06	Nil				
C8915		27.0	28.5	1.50	0.03	Nil				
C8916		28.5	30.0	1.50	0.46	Nil				
C8917		30.0	31.5	1.50	0.46 0.34	0.2				
C8918		31.5	33.0	1.50	1.08	0.4				
C8919		33.0	34.5	1.50	0.27	Nil				
C8920		34.5	36.0	1.50	0.44	0.3				
C8921		36.0	37.5	1.50	0.29	0.3				
C8922		37.5	39.0	1.50	0.38	0.6				
C8923		39.0	40.5	1.50	4.56 4.80	0.9				

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax	Lab.	Interval			Sample Width	Lab.					
Sample No.	Sample No.	From	To	Metric	SURYASTIKA						
		Metric	Metric		Au	Ag	Au				
					ppm	ppm	ppm	ppm	ppm	ppm	
C8924		40.5	42.0	1.50	11.76 13.03	1.7					
C8925		42.0	43.5	1.50	1.38	0.2					
C8926		43.5	45.0	1.50	0.37	0.2					
C8927		45.0	46.5	1.50	0.49	0.3					
C8928		46.5	48.0	1.50	0.58	0.7					
C8929		48.0	49.5	1.50	0.47	0.9					
C8930		49.5	51.0	1.50	0.73	0.4					
C8931		51.0	52.5	1.50	0.14	0.3					
C8932		52.5	54.0	1.50	0.72	1.1					
C8933		54.0	55.5	1.50	0.13	0.3					
C8934		55.5	57.0	1.50	NIL	NIL					
C8935		57.0	58.5	1.50	0.01	NIL					
C8936		58.5	60.0	1.50	NIL	NIL					
C8937		60.0	61.5	1.50	0.31	NIL					
C8938		61.5	63.0	1.50	0.11	0.3					
C8939		63.0	64.5	1.50	0.21	0.4					
C8940		64.5	66.0	1.50	0.03	0.2					
C8941		66.0	67.5	1.50	0.01	NIL					
C8942		67.5	69.0	1.50	0.03	NIL					
C8943		69.0	70.5	1.50	NIL	0.2					
C8944		70.5	72.0	1.50	0.03	NIL					

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SWASTIKA		Lab.			
		From	To		Au	Ag	Au			
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM
C8945		72.0	73.5	1.50	0.03	Nil				
C8946		73.5	75.0	1.50	0.48	0.4				
C8947		75.0	76.5	1.50	0.21	0.3				
C8948		76.5	78.0	1.50	4.56 4.80	0.3				
C8949		78.0	79.5	1.50	0.58	Nil				
C8950		79.5	81.0	1.50	1.06	0.3				
C8951		81.0	82.5	1.50	0.54	Nil				
C8952		82.5	84.0	1.50	0.39	0.3				
C8953		84.0	85.5	1.50	0.75	0.3				
C8954		85.5	87.0	1.50	3.88 4.12	0.3				
C8955		87.0	88.5	1.50	0.99	0.2				
C8956		88.5	90.0	1.50	1.58	0.3				
C8957		90.0	91.5	1.50	0.05	Nil				
C8958		91.5	93.0	1.50	0.04	0.2				
C8959		93.0	94.5	1.50	0.03	Nil				
C8960		94.5	96.0	1.50	Nil	Nil				
C8961		96.0	97.5	1.50	Nil	Nil				
C8962		97.5	99.0	1.50	0.19	0.2				
C8963		99.0	100.5	1.50	0.30	0.2				
C8964		100.5	102.0	1.50	0.11	Nil				
C8965		102.0	103.5	1.50	0.16	0.2				

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	Lab. SUNASTIKA					
		From	To		Au	Ag	Au			
		METRES	METRES	METRES	PPM	PPM	PPM	PPM	PPM	PPM
C8966		103.5	105.0	1.50	0.06	NIL				
C8967		105.0	106.5	1.50	0.10	NIL				
C8968		106.5	108.0	1.50	0.70	0.2				
C8969		108.0	109.5	1.50	0.86 0.70	0.3				
C8970		109.5	111.0	1.50	0.10	0.2				
C8971		111.0	113.35	2.35	0.03	NIL				
C8972		113.35	114.4	1.05	NIL	NIL				
C8973		114.4	117.0	2.60	0.01	0.2				
C8974		117.0	119.0	2.00	0.03	0.2				
C8975		119.0	120.5	1.50	0.06	0.2				
C8976		120.5	122.0	1.50	0.05	0.2				
C8977		122.0	123.0	1.00	0.08	0.2				
C8978		123.0	124.5	1.50	0.08	0.2				
C8979		124.5	126.0	1.50	0.40	0.3				
C8980		126.0	126.7	0.70	0.52 0.34	0.2				
C8981		126.7	127.1	0.40	0.06	NIL				
C8982		127.1	129.0	1.90	0.16	NIL				
C8983		129.0	130.45	1.45	0.04	NIL				
C8984		130.45	132.0	1.55	0.10	NIL				
C8985		132.0	134.4	2.40	0.01	NIL				
C8986		134.4	136.5	2.10	1.38 1.03	NIL				



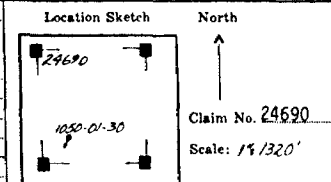


**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Collar Elevation: 4,973'

Hole No 1050-01-30

Hole No. 1050-01-30 Sheet 1	Length 126.45 metres (414.8')	Commenced January 27, 1981	Dip: Collar -45°
Property Mirado	Bearing S-35°-W	Completed January 29, 1981	
Township Catharine	Dip -45°	Drilling Co. St-Lambert	Etch Test
Location L-2+32E at 2+42N (Section J)	Objective To test mineralization in the south zone.	Core Size BQ	Depth 60m
Logged By G. Tremblay		Casing Left/Lost in Hole None	Rdg. 48.5°
Core Location Timmins			True 40°
			39°



Remarks \_\_\_\_\_

Footage metres		DESCRIPTION	Sample No.	From Metres	To Metres	Length Metres	Au (ppm)	Ag (ppm)							
From	To														
0	9.0m	OVERBURDEN	C8996	9.0	12.0	3.0	0.21	0.6							
0	29.5'		C8997	12.0	14.2	2.2	0.08	0.3							
			C8998	14.2	14.7	0.5	2.40	1.9							
			C8999	14.7	18.0	3.3	0.16	0.5							
9.0m	58.1m	AGGLOMERATE	C9000	18.0	21.0	3.0	0.27	0.5							
29.5'	190.6'		C9001	21.0	21.7	0.7	1.62	3.5							
			C9002	21.7	24.0	2.3	0.10	0.3							
58.1m	64.4m	LAPILLI TUFF	C9003	24.0	27.0	3.0	0.11	0.4							
190.6'	211.2'		C9004	27.0	30.0	3.0	0.51	0.4							
			C9005	30.0	33.8	3.8	0.16	Nil							
64.4m	67.1m	AGGLOMERATE	C9006	33.8	34.4	0.6	8.91	1.4							
211.2'	220.1'		C9007	34.4	36.0	1.6	0.17	Nil							
			C9008	36.0	39.0	3.0	0.11	0.2							
67.1m	70.1m	TUFF	C9009	39.0	40.5	1.5	0.17	0.2							
220.1'	229.9'		C9010	40.5	42.0	1.5	0.49	Nil							
			C9011	42.0	43.5	1.5	10.63	1.1							
70.1m	75.7m	LAPILLI TUFF	C9012	43.5	46.5	3.0	0.04	Nil							
229.9'	248.3'		C9013	46.5	49.5	3.0	0.07	Nil							
			C9014	49.5	52.5	3.0	0.09	Nil							
75.7m	76.5m	CHERTY INTERFLOW	C9015	52.5	54.0	1.5	1.05	0.4							
248.3'	250.9'		C9016	54.0	57.0	3.0	0.16	0.2							
			C9017	57.0	58.5	1.5	0.10	0.2							
76.5m	102.0m	AGGLOMERATE	C9018	58.5	60.0	1.5	10.63	1.0							
250.9'	334.6'		C9019	60.0	61.5	1.5	0.71	0.2							
			C9020	61.5	63.0	1.5	1.37	0.3							
102.0m	109.4m	LAPILLI TUFF WITH MINOR TUFF	C9021	63.0	66.0	3.0	0.10	Nil							
334.6'	358.8'		C9022	66.0	67.1	1.1	0.03	Nil							
			C9023	67.1	70.1	3.0	0.03	Nil							
			C9024	70.1	72.0	1.9	0.28	0.3							

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-30

Sheet No. 2

Footage metres		DESCRIPTION	Sample No.	From Metres	To Metres	Length Metres	Au (ppm)	Ag (ppm)							
From	To														
109.4m	126.45m	AGGLOMERATE	C9025	72.0	73.5	1.5	0.27	Nil							
358.8'	414.8'		C9026	73.5	75.7	2.2	0.61	0.3							
			C9027	75.7	76.5	0.8	0.63	0.5							
			C9028	76.5	78.0	1.5	0.57	0.6							
	126.45m	END OF HOLE	C9029	78.0	79.0	1.0	0.50	0.4							
	414.8'		C9030	79.0	80.0	1.0	160.63	10.1							
			C9031	80.0	81.8	1.8	0.58	0.4							
			C9032	81.8	82.3	0.5	0.11	Nil							
			C9033	82.3	84.0	1.7	0.72	0.2							
			C9034	84.0	87.0	3.0	0.07	Nil							
			C9035	87.0	90.0	3.0	0.35	Nil							
			C9036	90.0	93.0	3.0	0.32	0.2							
			C9037	93.0	96.0	3.0	0.06	Nil							
			C9038	96.0	99.0	3.0	0.08	Nil							
			C9039	99.0	102.0	3.0	0.13	Nil							
			C9040	102.0	105.0	3.0	0.10	Nil							
			C9041	105.0	108.0	3.0	0.50	Nil							
			C9042	108.0	109.4	1.4	1.71	0.4							
			C9043	109.4	111.0	1.6	0.10	Nil							
			C9044	111.0	112.5	1.5	0.44	Nil							
			C9045	112.5	114.0	1.5	0.10	Nil							
			C9046	114.0	117.0	3.0	0.07	Nil							
			C9047	117.0	120.0	3.0	0.04	Nil							
			C9048	120.0	123.0	3.0	0.05	0.2							
			C9049	123.0	124.5	1.5	0.03	0.2							
			C9050	124.5	126.45	1.95	0.24	0.3							





**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-30  
Sheet No. 5

Footage METRES		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
76.5m 250.9'	102.0m 334.6'	(Continued) 82.3 - 102.0 <1% to 3% disseminated pyrite.													
102.0m 334.6'	109.4m 358.8'	LAPILLI TUFF WITH MINOR TUFF	C9040	102.0	105.0	3.0	0.10	Nil							
		The lapilli tuff is light grey to medium green.	C9041	105.0	108.0	3.0	0.50	Nil							
		Contains sub-angular and angular feldspar crystals.	C9042	108.0	109.4	1.5	1.71	0.4							
		The size of the crystal ranges from 1/16" to 1/8".													
		Larger felsic and mafic fragments are also present; their size ranges from 1/4" to 1".													
		Pyrite content: <1% to 3%, disseminated.													
109.4m 358.8'	126.45m 414.8'	AGGLOMERATE	C9043	109.4	111.0	1.6	0.10	Nil							
		As 76.5 - 102.0.	C9044	111.0	112.9	1.5	0.44	Nil							
		Contains some lapilli tuff.	C9045	112.5	114.0	1.5	0.10	Nil							
		Pyrite content: <1% to 4%.	C9046	114.0	117.0	3.0	0.07	Nil							
			C9047	117.0	120.0	3.0	0.04	Nil							
			C9048	120.0	123.0	3.0	0.05	0.2							
	126.45m 414.8'	END OF HOLE	C9049	123.0	124.5	1.5	0.03	0.2							
			C9050	124.5	126.45	1.95	0.24	0.3							

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SUASTIKA		Lab.			
		From	To		Au	Ag	Au			
		METRES	METRES	METRES	PPM	PPM	PPM	PPM	PPM	PPM
C8996		9.0	12.0	3.00	0.21	0.6				
C8997		12.0	14.2	2.20	0.08	0.3				
C8998		14.2	14.7	0.50	2.04 2.40	1.9				
C8999		14.7	18.0	3.30	0.16	0.5				
C9000		18.0	21.0	3.00	0.27	0.5				
C9001		21.0	21.7	0.70	1.62	3.5				
C9002		21.7	24.0	2.30	0.10	0.3				
C9003		24.0	27.0	3.00	0.11	0.4				
C9004		27.0	30.0	3.00	0.51	0.4				
C9005		30.0	33.8	3.80	0.16	NIL				
C9006		33.8	34.4	0.60	8.23 8.91	1.4				
C9007		34.4	36.0	1.60	0.17	NIL				
C9008		36.0	39.0	3.00	0.11	0.2				
C9009		39.0	40.5	1.50	0.17	0.2				
C9010		40.5	42.0	1.50	0.49	NIL				
C9011		42.0	43.5	1.50	10.63 9.26	1.1				
C9012		43.5	46.5	3.00	0.04	NIL				
C9013		46.5	49.5	3.00	0.07	NIL				
C9014		49.5	52.5	3.00	0.09	NIL				
C9015		52.5	54.0	1.50	1.05	0.4				
C9016		54.0	57.0	3.00	0.16	0.2				

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax Sample No.	Lab. Sample No.	Interval		Sample Width METRES	SWASTIKA		Lab.			
		From METRES	To METRES		Au PPM	Ag PPM	Au PPM			
C9017		57.0	58.5	1.50	0.10	0.2				
C9018		58.5	60.0	1.50	10.22 10.63	1.0				
C9019		60.0	61.5	1.50	0.71	0.2				
C9020		61.5	63.0	1.50	0.37	0.3				
C9021		63.0	66.0	3.00	0.10	NIL				
C9022		66.0	67.1	1.10	0.03	NIL				
C9023		67.1	70.0	2.90	0.03	NIL				
C9024		70.1	72.0	1.90	0.28	0.3				
C9025		72.0	73.5	1.50	0.27	NIL				
C9026		73.5	75.7	2.20	0.61	0.3				
C9027		75.7	76.5	0.80	0.63	0.5				
C9028		76.5	78.0	1.50	0.47	0.6				
C9029		78.0	79.0	1.00	0.50	0.4				
C9030		79.0	80.0	1.00	156.69 157.72	10.1				
C9031		80.0	81.8	1.80	0.58	0.4				
C9032		81.8	82.3	0.50	0.16	NIL				
C9033		82.3	84.0	1.70	0.72	0.2				
C9034		84.0	87.0	3.00	0.07	NIL				
C9035		87.0	90.0	3.00	0.35	NIL				
C9036		90.0	93.0	3.00	0.32	0.2				
C9037		93.0	96.0	3.00	0.06	NIL				

# C 9030A 79.0 80.0 1.0 158.40  
 # C 9030B 79.0 80.0 1.0 160.63

\* New pulps selected from referts













**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-31  
Sheet No. 4

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
60.05	69.60	AGGLOMERATE  Same as from 50.3 - 58.60. Large felsic fragments in an intermediate matrix. Some 'cherty' fragments.  60.05 - 69.05: 2 - 15% pyrite with specks of chalcopyrite. The pyrite mineralization is the same as from 10.80 - 58.60.	C9073	60.05	61.50	1.45	0.65	0.3				
197.0'	228.3'		C9074	61.5	63.0	1.5	0.45	0.5				
			C9075	63.0	64.5	1.5	2.13	2.7				
			C9076	64.5	66.0	1.5	0.27	0.7				
			C9077	66.0	67.5	1.5	0.10	0.3				
			C9078	67.5	69.0	1.5	0.15	0.5				
			C9079	69.0	69.6	0.6	0.32	0.2				
69.60	73.4	LAPILLI TUFF  Same as 58.1 - 64.4 in hole 1050-01-30. Speckled white and medium green. Pyrite content is less than 1%.	C9080	19.6	72.0	2.4	0.08	Nil				
228.3'	240.8'		C9081	72.0	73.4	1.4	0.12	Nil				
73.4	73.62	INTERFLOW  Medium green. Fine-grained matrix with small fragments (<5"). Mineralized with pyrite seams. Pyrite content: 8% pyrite.	C9082	73.4	73.62	0.22	0.56	0.5				
240.8'	241.5'											
73.62	78.85	AGGLOMERATE  Same as 60.05 to 69.60. Pyrite content: less than 1% to 4%.	C9083	73.62	76.5	2.88	0.03	Nil				
241.5'	258.7'		C9084	76.5	78.85	2.35	0.06	Nil				
78.85	81.35	MAFIC DYKE  Same as 58.60 to 60.05. The lower and upper contacts are sharp. Upper contact: at 26' from core axis. Lower contact: sub-parallel to the core axis from 80.5 to 81.35. Pyrite content negligible.	C9085	78.85	82.35	2.50	0.06	Nil				
258.7'	266.9'											
81.35	87.35	AGGLOMERATE  Same as 73.62 to 78.85. Pyrite content: <1% to 5%.	C9086	81.35	84.0	2.65	1.71	0.5				
266.9'	286.6'		C9087	84.0	86.0	2.0	0.48	0.3				
			C9088	86.0	87.35	1.35	0.11	Nil				



AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax	Lab.	Interval			Sample Width	SWASTIKA		Lab.			
Sample No.	Sample No.	From	To		Au	Ag	Au				
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM	PPM
C9051		10.80	12.00	1.20	0.03	NIL					
C9052		12.00	15.00	3.00	0.24	0.2					
C9053		15.00	18.00	3.00	0.15	0.4					
C9054		18.00	21.00	3.00	0.10	0.3					
C9055		21.00	24.00	3.00	0.03	NIL					
C9056		24.00	27.00	3.00	0.06	0.3					
C9057		27.00	29.65	2.65	0.17	0.4					
C9058		29.65	31.00	1.35	1.59	2.7					
C9059		31.00	32.125	1.125	1.73 2.06	2.9					
C9060		32.125	33.80	1.675	0.63	1.6					
C9061		33.80	36.00	2.20	0.16	0.2					
C9062		36.00	39.00	3.00	0.06	0.2					
C9063		39.00	42.00	3.00	0.03	NIL					
C9064		42.00	43.50	1.50	0.11	NIL					
C9065		43.50	45.00	1.50	0.56	0.8					
C9066		45.00	46.50	1.50	0.21	0.4					
C9067		46.50	48.00	1.50	0.13	0.4					
C9068		48.00	51.00	3.00	0.05	0.2					
C9069		51.00	54.00	3.00	0.04	0.2					
C9070		54.00	57.00	3.00	0.03	NIL					
C9071		57.00	58.60	1.60	0.03	NIL					

C2544  
42.00-48.00

C2544 - Aprox. 42.0 - 48.0 1.50 0.16 0.4  
Somewhere between

PROJECT # 1050  
 Hole # 1050-01-31

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SWASTIKA		Lab.			
		From	To		Au	Ag	Au			
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM
C9072		58.60	60.05	1.45	0.04	NIL				
C9073		60.05	61.50	1.45	0.65	0.3				
C9074		61.50	63.00	1.50	0.45	0.5				
C9075		63.00	64.50	1.50	2.13 2.06	2.7				
C9076		64.50	66.00	1.50	0.27	0.7				
C9077		66.00	67.50	1.50	0.10	0.3				
C9078		67.50	69.00	1.50	0.15	0.5				
C9079		69.00	69.60	0.60	0.32	0.2				
C9080		69.60	72.00	2.40	0.08	NIL				
C9081		72.00	73.40	1.40	0.12	NIL				
C9082		73.40	73.62	0.22	0.56	0.5				
C9083		73.62	76.50	2.88	0.03	NIL				
C9084		76.50	78.85	2.35	0.06	NIL				
C9085		78.85	81.35	2.50	0.06	NIL				
C9086		81.35	84.00	2.65	1.31 1.71	0.5				
C9087		84.00	86.00	2.00	0.48	0.3				
C9088		86.00	87.35	1.35	0.11	NIL				
C9089		87.35	90.00	2.65	0.09	NIL				
C9090		90.00	93.00	3.00	0.04	0.2				
C9091		93.00	96.60	3.60	0.05	0.2				
C9092		96.60	98.00	1.40	0.21	0.3				

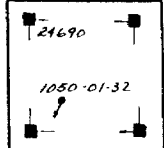




**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-32

Collar Elevation: 4,974'

Hole No. 1050-01-32 Sheet 1	Length 153.4 metres	Commenced January 31, 1981	Dip: Collar -45°	Location Sketch 
Property Mirado (1050-01)	Bearing S35°W	Completed February 3, 1981	Etch Test 1 60m 50.5° 42°	
Township Catharine	Dip -45°	Drilling Co. St-Lambert	2 143.0m 50° 41.5°	
Location L-2+86E at 3+92N (Section K)	Objective To test mineralization in the south zone	Core Size BQ	Casing left/lost in hole None	
Logged By G. Tremblay	Core Location Timmins			Claim No. 24690 Scale: 1/2" = 1320'
Remarks				

Footage metres/feet		DESCRIPTION	Sample No.	From	To (metres)	Length (metres)	Au ppm	Ag ppm				
From	To											
0	10.80	OVERBURDEN	C9107	10.8	13.0	2.2	0.03	NIL				
0	35.4'		C9108	13.0	15.0	2.0	0.08	0.5				
			C9109	15.0	16.5	1.5	0.14	0.3				
10.80	27.00	INTERBEDDED TUFF AND LAPILLI TUFF	C9110	16.5	18.0	1.5	0.10	0.3				
35.4'	88.6'		C9111	18.0	19.5	1.5	0.27	0.8				
			C9112	19.5	21.0	1.5	0.24	0.9				
27.00	47.80	LAPILLI TUFF	C9113	21.0	22.5	1.5	0.44	0.8				
88.6'	156.8'		C9114	22.5	24.0	1.5	0.18	1.0				
			C9172	24.0	25.5	1.5	0.27	0.7				
47.80	49.50	MAFIC DYKE	C9115	25.5	27.0	1.5	0.39	0.7				
156.8'	162.4'		C9116	27.0	28.5	1.5	1.02	0.8				
			C9117	28.5	30.0	1.5	3.43	0.8				
49.50	52.35	LAPILLI TUFF	C9118	30.0	31.5	1.5	3.24	1.1				
162.4'	171.8'		C9119	31.5	33.0	1.5	1.35	1.0				
			C9120	33.0	34.5	1.5	0.56	2.4				
52.35	53.10	SYENITE DYKE	C9121	34.5	36.0	1.5	0.63	0.8				
171.8'	174.2'		C9122	36.0	37.5	1.5	0.23	0.6				
			C9123	37.5	39.0	1.5	1.04	0.9				
53.10	59.00	LAPILLI TUFF	C9124	39.0	40.5	1.5	1.13	0.8				
174.2'	193.6'		C9125	40.5	42.0	1.5	2.06	1.4				
			C9126	42.0	43.5	1.5	0.32	0.5				
59.00	84.35	INTERBEDDED TUFF AND MAFIC TUFF	C9127	43.5	45.0	1.5	0.21	0.5				
193.6'	276.7'		C9128	45.0	46.4	1.5	0.37	0.5				
			C9129	46.5	47.8	1.3	1.99	1.2				
84.35	87.50	LAPILLI TUFF	C9130	47.8	49.5	1.7	0.06	NIL				
276.7'	287.1'		C9131	49.5	51.0	1.5	0.41	0.7				
			C9132	51.0	52.35	1.35	0.76	0.5				
			C9133	52.35	53.1	0.75	0.03	NIL				

AMAX MINERALS EXPLORATION  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-32  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
87.50	103.45	TUFF	C9134	53.1	54.0	0.9	0.30	0.7							
287.1'	339.4'		C9135	54.0	55.5	1.5	0.40	0.6							
			C9136	55.5	57.0	1.5	0.38	0.7							
			C9137	57.0	58.0	1.0	0.45	1.4							
103.45	143.30	LAPILLI TUFF AND TUFF	C9138	58.0	59.0	1.0	0.24	0.5							
339.4'	470.1'		C9139	59.0	60.0	1.0	0.10	NIL							
			C1012	60.0	63.0	3.0	0.08	NIL							
143.30	153.40	TUFF	C1013	63.0	66.0	3.0	0.07	NIL							
470.1'	503.3'		C1014	66.0	69.0	3.0	4.39	2.4							
			C1015	69.0	72.0	3.0	0.30	0.3							
	153.40	END OF HOLE	C1016	72.0	75.0	3.0	0.78	0.4							
	503.3'		C1017	75.0	78.0	3.0	0.24	0.2							
			C1018	78.0	81.0	3.0	0.14	NIL							
			C1019	81.0	82.5	1.5	0.16	NIL							
			C9140	82.5	84.35	1.85	0.17	0.2							
			C9141	84.35	85.9	1.55	1.04	1.8							
			C9142	85.9	87.5	1.6	4.46	3.8							
			C9143	87.5	89.0	1.5	0.17	0.2							
			C1020	89.0	92.0	3.0	0.13	NIL							
			C1021	92.0	95.0	3.0	0.10	NIL							
			C1022	95.0	98.0	3.0	0.05	NIL							
			C1023	98.0	101.0	3.0	0.07	NIL							
			C1024	101.0	103.45	2.45	0.06	NIL							
			C9144	103.45	105.0	1.55	1.77	1.0							
			C9145	105.0	106.5	1.5	2.95	1.3							
			C9146	106.5	108.0	1.5	2.69	1.8							
			C9147	108.0	109.5	1.5	2.66	1.0							
			C9148	109.5	111.0	1.5	2.01	1.0							
			C9149	111.0	112.5	1.5	5.15	1.5							
			C9150	112.5	114.0	1.5	1.71	0.7							
			C9151	114.0	115.5	1.5	1.26	0.9							
			C9152	115.5	117.0	1.5	3.19	1.2							
			C9153	117.0	118.5	1.5	1.88	0.7							
			C9154	118.5	120.0	1.5	0.99	0.5							
			C9155	120.0	121.5	1.5	3.43	1.3							
			C9156	121.5	123.0	1.5	0.93	0.5							
			C9157	123.0	124.5	1.5	1.45	0.8							
			C9158	124.5	126.0	1.5	2.51	0.8							
			C9159	126.0	127.5	1.5	8.51	2.8							





**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-32  
Sheet No. 4

Footages/metres/feet		DESCRIPTION	Sample No.	From	To (metres)	Length (metres)	Au ppm	Ag ppm					
From	To												
49.50	52.35	LAPILLI TUFF	C9131	49.5	51.0	1.5	0.41	0.7					
162.4'	171.8'		C9132	51.0	52.35	1.35	0.76	0.5					
		Same as from 27.00 to 47.80. Pyrite content: 5-15% pyrite.											
52.35	53.10	SYENITE DYKE	C9133	52.35	53.1	0.75	0.03	NIL					
171.8'	174.2'		Pink to red and coarse-grained No pyrite mineralization.										
53.10	59.00	LAPILLI TUFF	C9134	53.1	54.0	0.9	0.30	0.7					
174.2'	193.6'		C9135	54.0	55.5	1.5	0.40	0.6					
		Same as from 27.00 to 47.80. Pyrite content at 53.10 to 59.00: 40% pyrite.	C9136	55.5	57.0	1.5	0.38	0.7					
			C9137	57.0	58.0	2.0	0.45	1.4					
			C9138	58.0	59.0	1.0	0.24	0.5					
59.00	84.35	INTERBEDDED TUFF AND MAFIC TUFF	C9139	59.0	60.0	1.0	0.10	NIL					
193.6'	276.7'		C1012	60.0	63.0	3.0	0.08	NIL					
			The tuff is medium grey, massive and contains small fragments. The mafic tuff is dark green, massive and fine-grained. Negligible pyrite mineralization from < 1% to 2% pyrite.	C1013	63.0	66.0	3.0	0.07	NIL				
				C1014	66.0	69.0	3.0	4.39	2.4				
				C1015	69.0	72.0	3.0	0.30	0.3				
			59.00 - 71.00: Tuff	C1016	72.0	75.0	3.0	0.78	0.4				
			63.20 - 63.40: Hornblende dyke, medium-grained.	C1017	75.0	78.0	3.0	0.24	0.2				
			71.00 - 73.10: Mafic tuff	C1018	78.0	81.0	3.0	0.14	NIL				
			73.10 - 75.60: Tuff	C1019	81.0	82.5	1.5	0.16	NIL				
			75.60 - 81.00: Mafic tuff	C9140	82.5	84.35	1.85	0.17	0.2				
		81.00 - 84.35: Tuff											
84.35	87.50	LAPILLI TUFF	C9141	84.35	85.9	1.55	1.04	1.8					
276.7'	187.1'		C9142	85.9	87.5	1.6	4.46	3.8					
		Same as 27.00 - 47.80. Pyrite content: 5-20%											
87.50	103.45	TUFF	C9143	87.5	89.0	1.5	0.17	0.2					
287.1'	339.4'		C1020	89.0	92.0	3.0	0.13	NIL					
			Medium-grey, fine-grained and massive. Contains numerous small chloritic fragments. The size of the fragments is generally smaller than 1/4". Pyrite content: Negligible (< 1%).	C1021	92.0	95.0	3.0	0.10	NIL				
				C1022	95.0	98.0	3.0	0.05	NIL				
				C1023	98.0	101.0	3.0	0.07	NIL				
				C1024	101.0	103.45	2.45	0.06	NIL				



## A MAX MINERALS EXPLORATION

## ASSAY SUMMARY SHEET

Amax	Lab.	Interval			Sample Width	SWASTIKA		Lab.			
Sample No.	Sample No.	From	To		Au	Ag	Au				
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM	
C9126		42.0	43.5	1.50	0.32	0.5					
C9127		43.5	45.0	1.50	0.21	0.5					
C9128		45.0	46.5	1.50	0.37 0.30	0.5					
C9129		46.5	47.80	1.30	1.99 1.72	1.2					
C9130		47.80	49.50	1.70	0.06	NIL					
C9131		49.50	51.00	1.50	0.41	0.7					
C9132		51.00	52.35	1.35	0.76	0.5					
C9133		52.35	53.10	0.75	0.03	NIL					
C9134		53.10	54.00	0.90	0.30	0.7					
C9135		54.00	55.50	1.50	0.40	0.6					
C9136		55.50	57.00	1.50	0.38	0.7					
C9137		57.00	58.00	1.00	0.45	1.4					
C9138		58.00	59.00	1.00	0.24	0.5					
C9139		59.00	60.00	1.00	0.10	NIL					
C9140		82.50	84.35	1.85	0.17	0.2					
C9141		84.35	85.90	1.55	1.04	1.8					
C9142		85.90	87.50	1.60	4.05 4.46	3.8					
C9143		87.50	89.00	1.50	0.17	0.2					
C9144		103.45	105.00	1.55	1.77	1.0					
C9145		105.00	106.50	1.50	2.95	1.3					
C9146		106.50	108.00	1.50	2.69	1.8					



AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SWASTIKA		Lab.			
		From	To		Au	Ag	Au			
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM
C9147		108.00	109.50	1.50	2.66	1.0				
C9148		109.50	111.00	1.50	2.01	1.0				
C9149		111.00	112.50	1.50	4.46 5.15	1.5				
C9150		112.50	114.00	1.50	1.71	0.7				
C9151		114.00	115.50	1.50	1.26	0.9				
C9152		115.50	117.00	1.50	3.19	1.2				
C9153		117.00	118.50	1.50	1.88	0.7				
C9154		118.50	120.00	1.50	0.99	0.5				
C9155		120.00	121.50	1.50	3.02 3.43	1.3				
C9156		121.50	123.00	1.50	0.93	0.5				
C9157		123.00	124.50	1.50	1.45	0.8				
C9158		124.50	126.00	1.50	2.51	0.8				
C9159		126.00	127.50	1.50	8.51 7.55	2.8				
C9160		127.50	129.00	1.50	5.08 5.14	0.7				
C9161		129.00	130.50	1.50	0.56	0.3				
C9162		130.50	132.00	1.50	5.25	1.0				
C9163		132.00	133.50	1.50	1.85	0.5				
C9164		133.50	135.00	1.50	0.40	0.5				
C9165		135.00	136.50	1.50	1.03	0.5				
C9166		136.50	138.10	1.60	0.59	0.6				
C9167		138.10	140.00	1.90	0.15	0.2				

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax	Lab.	Interval			Sample Width	SWASTIKA				
Sample No.	Sample No.	From	To		Au	Ag	Au			
		Meters	Meters	Meters	PPM	PPM	PPM	PPM	PPM	PPM
C9168		140.00	141.50	1.50	0.56	0.4				
C9169		141.50	143.30	1.80	1.26 1.37	0.2				
C9170		143.30	145.00	1.70	0.28	Nil				
C9171		145.00	147.00	2.00	0.36	0.2				
C9172		24.00	25.50	1.50	0.27	0.7				
C9107		10.80	13.00	2.20	0.03	Nil				
C9108		13.00	15.00	2.00	0.08	0.5				
C9109		15.00	16.50	1.50	0.14	0.4				
C9110		16.50	18.00	1.50	0.10	0.3				
C9111		18.00	19.50	1.50	0.27	0.8				
C9112		19.50	21.00	1.50	0.24	0.9				
C9113		21.00	22.50	1.50	0.44	0.8				
C9114		22.50	24.00	1.50	0.18	1.0				
C9115		25.50	27.00	1.50	0.39	0.7				
C9116		27.00	28.50	1.50	1.02	0.8				
C9117		28.50	30.00	1.50	3.29 3.43	0.8				
C9118		30.00	31.50	1.50	13.24 11.31	1.1				
C9119		31.50	33.00	1.50	1.35	1.0				
C9120		33.00	34.50	1.50	0.56	2.4				
C9121		34.50	36.00	1.50	0.63	0.8				
C9122		36.00	37.50	1.50	0.23	0.6				





**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-33  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length	Au ppm	Ag ppm				
From	To											
61.00	69.80	AGGLOMERATE	C9201	54.0	55.5	1.5	0.45	0.3				
200.1'	229.0'		C9202	55.5	57.0	1.5	1.00	0.4				
			C9203	57.0	58.5	1.5	0.99	0.2				
			C9204	58.5	59.9	1.4	1.03	0.6				
69.80	80.50	LAPILLI TUFF	C9205	59.9	61.0	1.1	0.03	NIL				
229.0'	264.1'		C9206	61.0	63.0	2.0	0.51	0.3				
			C9207	63.0	64.5	1.5	2.17	0.9				
80.50	84.20	LAPILLI TUFF AND TUFF	C9208	64.5	66.0	1.5	0.01	1.3				
264.1'	276.2'		C9209	66.0	67.5	1.5	3.88	0.6				
		MAFIC DYKE (ANDESITE FLOW?)	C9210	67.5	69.8	2.3	7.89	0.9				
84.20	85.40		C9211	69.8	71.0	1.2	0.51	0.2				
276.2'	280.2'		C9212	71.0	72.0	1.0	4.90	1.0				
			C9213	72.0	73.5	1.5	0.40	0.2				
85.40	99.90	LAPILLI TUFF AND TUFF	C9214	73.5	75.0	1.5	2.48	0.6				
280.2'	327.8'		C9215	75.0	76.5	1.5	8.23	0.9				
			C9216	76.5	78.0	1.5	1.98	0.6				
99.90	106.40	LAPILLI TUFF	C9217	78.0	79.5	1.5	2.81	0.5				
327.8'	349.1'		C9218	79.5	80.5	1.0	2.85	0.6				
		TUFF	C9219	80.5	82.5	2.0	1.13	0.3				
106.40	127.43		C9220	82.5	84.2	1.7	3.53	0.6				
349.1'	418.1'		C9221	84.2	85.4	1.2	0.23	0.3				
			C9222	85.4	87.0	1.6	4.73	0.9				
127.43	156.00	LAPILLI TUFF AND TUFF	C9223	87.0	88.5	1.5	3.64	0.8				
418.1'	511.1'		C9224	88.5	90.0	1.5	5.83	1.2				
			C9225	90.0	91.5	1.5	5.35	0.9				
	156.00	END OF HOLE	C8126	91.5	93.0	1.5	2.42	0.7				
	511.1'		C8127	93.0	94.5	1.5	3.29	0.5				
			C8128	94.5	96.0	1.5	0.37	NIL				
			C8129	96.0	97.5	1.5	0.08	NIL				
			C8130	97.5	98.9	1.4	0.07	NIL				
			C8131	98.9	100.5	1.6	0.41	0.3				
			C8132	100.5	102.0	1.5	0.17	0.2				
			C8133	102.0	103.5	1.5	0.22	NIL				
			C8134	103.5	105.0	1.5	0.51	0.3				
			C8135	105.0	106.4	1.4	1.55	0.4				
			C1005	106.4	109.0	2.6	0.16	NIL				
			C1006	109.0	112.0	3.0	0.16	0.2				
			C1007	112.0	115.0	3.0	0.31	0.3				
			C1008	115.0	118.0	3.0	0.25	0.2				
		C1009	118.0	121.0	3.0	0.24	NIL					



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-33

Sheet No. 3

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
0	12.30	OVERBURDEN													
0	40.4'														
12.30	16.80	INTERBEDDED TUFF AND MINOR LAPILLI TUFF	C9173	12.3	15.0	2.7	0.03	NII							
40.4'	55.1'		C9174	15.0	16.8	1.8	0.03	NII							
		Same as 10.80 - 27.00 in hole 1050-01-32. The tuff is medium green, fine-grained. The lapilli tuff is medium green, and contains small felsic and mafic fragments. The size of the fragments ranges from 1/16" to 1/2". Pyrite content: 1-4% disseminated pyrite.													
16.80	22.00	LAPILLI TUFF	C9175	16.8	18.0	1.2	0.04	0.2							
55.1'	72.2'		C9176	18.0	19.5	1.5	0.28	0.3							
		Same as 27.00 - 47.80 in hole 1050-01-32. The lapilli tuff is composed of mafic and felsic fragments in an intermediate to felsic matrix. The size of the fragments ranges from 1/4" to 3". The average size is lapilli. The lapilli tuff is well mineralized with pyrite. The pyrite occurs as fine or coarse-grained in thin fractures, in clots, in narrow seams or finely disseminated. Pyrite content: 16.80 - 20.00: 1-4% pyrite 20.00 - 21.60: 4-10% pyrite 21.60 - 22.00: 1-3% pyrite.													
22.00	22.83	MAFIC DYKE	C9179	22.0	22.83	0.83	0.06	0.2							
72.2'	74.9'														
		Medium-green, fine-grained and massive. Sharp upper and lower contacts: Upper contact at 66° from core axis. Lower contact at 74° from core axis. Negligible pyrite.													





**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 050-01-33  
Sheet No. 5

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
61.00	69.80	AGGLOMERATE	C9206	61.0	63.0	2.0	0.51	0.3							
200.1'	229.0'		C9207	63.0	64.5	1.5	2.17	0.9							
		Same as 28.50 - 46.00.	C9208	64.5	66.0	1.5	0.01	1.3							
		Pyrite content: 1-10% pyrite.	C9209	66.0	67.5	1.5	3.88	0.6							
			C9210	67.5	69.8	2.3	7.89	0.9							
69.80	80.50	LAPILLI TUFF	C9211	69.8	71.0	1.2	0.51	0.2							
229.0'	264.1'		C9212	71.0	72.0	1.0	4.90	1.0							
		Same as 46.00 - 55.90.	C9213	72.0	73.5	1.5	0.40	0.2							
		Well mineralized with pyrite.	C9214	73.5	75.0	1.5	2.48	0.6							
		Pyrite content: 3-15% pyrite.	C9215	75.0	76.5	1.5	8.23	0.9							
			C9216	76.5	78.0	1.5	1.98	0.6							
80.50	84.20	LAPILLI TUFF AND TUFF	C9217	78.0	79.5	1.5	2.81	0.5							
264.1'	276.2'		C9218	79.5	80.5	1.0	2.85	0.6							
		Same as 103.45 to 143.3 in Hole # 1050-01-32.	C9219	80.5	82.5	2.0	1.13	0.3							
		Pyrite content: 1-5%	C9220	82.5	84.2	1.7	3.53	0.6							
			C9221	84.2	85.4	1.2	0.23	0.3							
84.20	85.40	MAFIC DYKE (ANDESITE FLOW?)													
276.2'	280.2'														
		Medium-green, fine-grained and massive. Contains small chloritic inclusions.													
		Sharp upper and lower contacts: $\approx 90^\circ$ .													
85.40	99.90	LAPILLI TUFF AND TUFF	C8222	85.4	87.0	1.6	4.73	0.9							
280.2'	327.8'		C9223	87.0	88.5	1.5	3.64	0.8							
		Same as 80.5 - 84.2.	C9224	88.5	90.0	1.5	5.83	1.2							
		Pyrite content: 1-5%.	C9225	90.0	91.5	1.5	5.35	0.9							
			C8126	91.5	93.0	1.5	2.42	0.7							
99.90	106.40	LAPILLI TUFF	C8127	93.0	94.5	1.5	3.29	0.5							
327.8'	349.1'		C8128	94.5	96.0	1.5	0.37	NIL							
		Same as 46.00 to 55.90. Pyrite content: 2-8%.	C8129	96.0	97.5	1.5	0.08	NIL							
			C8130	97.5	98.9	1.4	0.07	NIL							
106.40	127.43	TUFF	C8131	98.9	100.5	1.6	0.41	0.3							
349.1'	418.1'		C8132	100.5	102.0	1.5	0.17	0.2							
		Same as 12.3 to 16.80.	C8133	102.0	103.5	1.5	0.22	NIL							
		Medium-grey, fine-grained and massive. Contains numerous small chloritic fragments. The size of the fragments ranges from $< 1/16"$ to $1/2"$ .	C8134	103.5	105.0	1.5	0.51	0.3							
		Upper contact at $15^\circ$ from core axis.	C8135	105.0	106.4	1.4	1.55	0.4							
		Pyrite content: Negligible.	C1005	106.4	109.0	2.6	0.16	NIL							
			C1006	109.0	112.0	3.0	0.16	0.2							
			C1007	112.0	115.0	3.0	0.31	0.3							

**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-33

Sheet No. 6

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
127.43	156.00	LAPILLI TUFF AND TUFF	C1008	115.0	118.0	3.0	0.25	0.2					
418.1'	511.1'		C1010	121.0	124.0	3.0	0.25	NIL					
		Same as 103.45 to 143.3 in hole # 1050-01-32.	C1011	124.00	127.48	3.48	0.11	0.2					
		Pyrite content: 2-8% pyrite with specks of chalcopyrite.	C8136	127.4	129.0	1.57	0.66	0.4					
		145.75 - 146.80: mafic dyke, sharp upper and lower contacts.	C8137	129.0	130.5	1.5	4.80	0.6					
			C8138	130.5	132.0	1.5	1.09	NIL					
			C8139	132.0	133.5	1.5	1.43	NIL					
156.00	511.1'	END OF HOLE	C8140	133.5	135.0	1.5	0.16	NIL					
			C8141	135.0	136.0	1.5	0.82	0.2					
			C8142	136.5	138.0	1.5	0.16	NIL					
			C8143	138.0	139.5	1.5	0.13	NIL					
			C8144	139.5	141.0	1.5	0.29	NIL					
			C8145	141.0	142.5	1.5	0.09	NIL					
			C8146	142.5	144.0	1.5	0.23	0.5					
			C8147	144.0	145.5	1.5	0.18	NIL					
			C8148	145.5	147.0	1.5	0.07	NIL					
			C8149	147.0	148.5	1.5	0.63	0.2					
			C8150	148.5	150.0	1.5	3.02	0.5					
			C8151	150.0	151.5	1.5	0.47	0.4					
			C8152	151.5	153.0	1.5	0.14	NIL					
			C8153	153.0	154.5	1.5	0.10	NIL					
			C8154	154.5	156.0	1.5	0.18	NIL					

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax	Lab.	Interval			Sample Width	Succis/ka		Lab.		
Sample No.	Sample No.	From	To		Au	Ag	Au			
		Metres	Metres	Metres	PPM	PPM				
C9173		12.30	15.0	2.7	0.03	Nil				
C9174		15.0	16.8	1.8	0.03	Nil				
C9175		16.8	18.0	1.2	0.04	0.2				
C9176		18.0	19.5	1.5	0.28	0.3				
C9177		19.5	21.0	1.5	0.32	0.9				
C9178		21.0	22.0	1.0	1.90	2.2				
C9179		22.0	22.83	0.83	0.06	0.2				
C9180		22.83	24.0	1.17	6.65 6.86	1.9				
C9181		24.0	25.5	1.5	0.69	0.8				
C9182		25.5	27.0	1.5	0.81	0.7				
C9183		27.0	28.5	1.5	0.35	0.4				
C9184		28.5	30.0	1.5	0.32	0.7				
C9185		30.0	31.5	1.5	0.36	0.2				
C9186		31.5	33.0	1.5	3.36	0.4				
C9187		33.0	34.5	1.5	2.56	0.5				
C9188		34.5	36.0	1.5	1.40	0.4				
C9189		36.0	37.5	1.5	3.64 4.12	0.9				
C9190		37.5	39.0	1.5	1.47	0.7				
C9191		39.0	40.5	1.5	1.88	0.5				
C9192		40.5	42.0	1.5	0.76	0.4				
C9193		42.0	43.5	1.5	2.12	0.6				

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	Statistics		Lab.			
		From	To		Au	Ag	Au			
		Metres	Metres	Metres	PPM	PPM				
C9117		43.5	45.0	1.5	4.73 4.26	0.8				
C9118		45.0	46.5	1.5	2.09	0.4				
C9119		46.5	48.0	1.5	0.34	0.2				
C9117		48.0	49.5	1.5	0.20	0.8				
C9118		49.5	51.0	1.5	0.34	0.3				
C9119		51.0	52.5	1.5	1.36	0.6				
C9200		52.5	54.0	1.5	2.40	0.3				
C9201		54.0	55.5	1.5	0.45	0.3				
C9202		55.5	57.0	1.5	1.00	0.4				
C9203		57.0	58.5	1.5	0.19	0.2				
C9204		58.5	59.9	1.4	1.02 1.03	0.6				
C9205		59.9	61.0	1.1	0.05	NIL				
C9206		61.0	63.0	2.0	0.57	0.3				
C9207		63.0	64.5	1.5	2.17	0.9				
C9208		64.5	66.0	1.5	0.01	1.3				
C9209		66.0	67.5	1.5	3.88	0.6				
C9210		67.5	69.8	2.3	7.81 7.55	0.9				
C9211		69.8	71.0	1.2	0.51	0.2				
C9212		71.0	72.0	1.0	4.90	1.0				
C9213		72.0	73.5	1.5	0.40	0.2				
C9214		73.5	75.0	1.5	2.48	0.6				

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

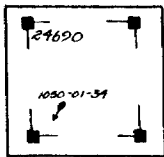
Amax Sample No.	Lab. Sample No.	Interval		Sample Width	See assay sheet		Lab.			
		From Metres	To Metres		Au ppm	Ag ppm	Au			
C97215		75.0	76.5	1.5	5.23 7.54	0.9				
C97216		76.5	78.0	1.5	1.98	0.6				
C97217		78.0	79.5	1.5	2.81	0.5				
C97218		79.5	80.5	1.0	2.85	0.6				
C97219		80.5	82.5	2.0	1.13	0.3				
C97220		82.5	84.2	1.7	3.53	0.6				
C97221		84.2	85.4	1.2	0.23	0.3				
C97222		85.4	87.0	1.6	4.73	0.9				
C97223		87.0	88.5	1.5	3.64	0.8				
C97224		88.5	90.0	1.5	5.83 5.15	1.2				
C97225		90.0	91.5	1.5	5.35	0.9				
C81226		91.5	93.0	1.5	2.42	0.7				
C81227		93.0	94.5	1.5	3.29 2.74	0.5				
C81228		94.5	96.0	1.5	0.37	NIL				
C81229		96.0	97.5	1.5	0.08	NIL				
C81230		97.5	98.9	1.4	0.07	NIL				
C81231		98.9	100.5	1.6	0.41	0.3				
C81232		100.5	102.0	1.5	0.17	0.2				
C81233		102.0	103.5	1.5	0.22	NIL				
C81234		103.5	105.0	1.5	0.51	0.3				
C81235		105.0	106.4	1.4	1.55	0.4				



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-34

Collar Elevation: 4,976'

Hole No. 1050-01-34 Sheet 1	Length 117.1 metres	Commenced February 4, 1981	Dip: Collar -45°	Location Sketch 
Property Mirado (1050-01)	Bearing S35°W	Completed February 6, 1981	Etch Test 1	
Township Catharine	Dip -45°	Drilling Co. St-Lambert	Depth 60m Rdg. 52.5° True 44°	
Location L-1+64+E at 3+19N (Section I)	Objective To test mineralization in the South zone.	Core Size BQ	2 117.1m 52.5° 44°	
Logged By G. Trembaly	Core Location Timmins	Casing Left/Lost in Hole		Claim No. 24690 Scale: 1" = 1320'
Remarks Lost first hole at 6.00 metres in overburden. Backed up 2 feet and started a second hole.				

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (meters)	Au ppm	Ag ppm				
From	To											
0	7.00	OVERBURDEN	C8155	7.0	9.0	2.0	0.03	NIL				
0	23.0'		C8156	9.0	10.5	1.5	1.13	0.2				
			C8157	10.5	12.0	1.5	0.18	NIL				
7.00	21.90	LAPILLI TUFF	C8158	12.0	13.5	1.5	0.13	NIL				
23.0'	71.9'		C8159	13.5	15.0	1.5	0.09	NIL				
			C8160	15.0	16.5	1.5	0.15	NIL				
21.90	22.55	SYENITE DYKE	C8161	16.5	18.0	1.5	0.03	NIL				
71.9'	74.0'		C8162	18.0	19.5	1.5	0.09	NIL				
			C8163	19.5	21.0	1.5	1.41	0.2				
22.55	38.70	LAPILLI TUFF	C8164	21.0	21.9	0.9	1.59	0.3				
74.0'	127.0'		C8165	21.9	22.55	0.65	0.05	NIL				
			C8166	22.55	24.0	1.45	0.13	NIL				
38.70	73.50	AGGLOMERATE	C8167	24.0	25.5	1.5	0.03	NIL				
127.0'	241.1'		C8168	25.5	27.0	1.5	0.24	NIL				
			C8169	27.0	28.5	1.5	0.06	NIL				
73.50	74.50	TUFF	C8170	28.5	30.0	1.5	0.01	NIL				
241.1'	244.4'		C8171	30.0	31.5	1.5	0.02	NIL				
			C8172	31.5	33.0	1.5	0.16	NIL				
74.50	76.20	MAFIC DYKE (MAFIC TUFF?)	C8173	33.0	34.5	1.5	0.10	NIL				
244.4'	250.0'		C8174	34.5	36.0	1.5	0.05	NIL				
			C8175	36.0	37.5	1.5	0.38	0.2				
76.20	78.10	TUFF	C8176	37.5	39.0	1.5	1.96	0.3				
250.0'	256.2'		C8177	39.0	40.5	1.5	2.74	0.5				
			C8178	40.5	42.0	1.5	0.16	NIL				
78.10	117.10	TUFF WITH MINOR LAPILLI TUFF	C8179	42.0	43.5	1.5	0.10	NIL				
256.2'	384.2'		C8180	43.5	45.0	1.5	0.33	0.3				
			C8181	45.0	46.5	1.5	0.28	0.2				
117.10	384.2'	END OF HOLE	C8182	46.5	48.0	1.5	0.11	0.2				







**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-34

Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
0	7.00	OVERBURDEN													
0	23.0'														
7.00	21.90	LAPILLI TUFF	C8155	7.0	9.0	2.0	0.03	NIL							
23.0'	71.9'		C8156	9.0	10.5	1.5	1.13	0.2							
		The lapilli tuff is medium-green. The lapilli tuff is composed of mafic fragments in an intermediate to felsic matrix. The size of the fragments ranges from 1/16" to 1".	C8157	10.5	12.0	1.5	0.18	NIL							
			C8158	12.0	13.5	1.5	0.13	NIL							
			C8159	13.5	15.0	1.5	0.09	NIL							
			C8160	15.0	16.5	1.5	0.15	NIL							
		Pyrite content: 1-5%.	C8161	16.5	18.0	1.5	0.03	NIL							
		10.00 - 10.10: 30% pyrite	C8162	18.0	19.5	1.5	0.09	NIL							
		19.10 - 19.60: silicified	C8163	19.5	21.0	1.5	1.41	0.2							
21.90	22.55	SYENITE DYKE	C8164	21.0	21.9	0.9	1.59	0.3							
71.9'	74.0'		C8165	21.9	22.55	0.65	0.05	NIL							
		Same as in hole #1050-01-33 from 59.90 to 61.00													
22.55	38.70	LAPILLI TUFF	C8166	22.55	24.0	1.45	0.13	NIL							
74.0'	127.0'		C8167	24.0	25.5	1.5	0.03	NIL							
		Same as 7.00 - 21.90.	C8168	25.5	27.0	1.5	0.24	NIL							
		Pyrite content: 1-5%	C8169	27.0	28.5	1.5	0.06	NIL							
		26.500 - 26.525: 90% pyrite in a seam.	C8170	28.5	30.0	1.5	0.01	NIL							
		32.925 - 32.950: 40% pyrite in a seam.	C8171	30.0	31.5	1.5	0.02	NIL							
			C8172	31.5	33.0	1.5	0.16	NIL							
38.70	73.50	AGGLOMERATE	C8173	33.0	34.5	1.5	0.10	NIL							
127.0'	241.1'		C8174	34.5	36.0	1.5	0.05	NIL							
		Same as in hole #1050-01-30 from 9.0 - 58.1 or 1050-01-29 (22.3-54.8)	C8175	36.0	37.5	1.5	0.38	0.2							
		The agglomerate is medium-green. The agglomerate is composed of mafic fragments in an intermediate to felsic matrix. The size of the fragments ranges from 1/16" to 4". Most of the fragments are of agglomeratic size. Fragments of lapilli size are also present.	C8176	37.5	39.0	1.5	1.96	0.3							
			C8177	39.0	40.5	1.5	2.74	0.5							
			C8178	40.5	42.0	1.5	0.16	NIL							
			C8179	42.0	43.5	1.5	0.10	NIL							
			C8180	43.5	45.0	1.5	0.33	0.3							
		Pyrite mineralization occurs as fine or coarse-grained in thin fractures in clots, in narrow seams, or disseminated.	C8181	45.0	46.5	1.5	0.28	0.2							
			C8182	46.5	48.0	1.5	0.11	0.2							
		Pyrite content: 1-10%.	C8183	48.0	49.5	1.5	0.11	0.2							
			C8184	49.5	51.0	1.5	0.17	NIL							
			C8185	51.0	52.5	1.5	0.18	NIL							
			C8186	52.5	54.0	1.5	1.35	0.2							
			C8187	54.0	55.5	1.5	0.10	NIL							

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-34  
Sheet No. 3

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
73.50	74.50	TUFF  The tuff is light grey. It is of felsic to intermediate composition. Pyrite content: 1-10%.	C8188	55.5	57.0	1.5	0.10	NIL				
241.1'	244.4'		C8189	57.0	58.5	1.5	0.10	NIL				
			C8190	58.5	60.0	1.5	0.15	NIL				
			C8191	60.0	61.5	1.5	0.94	0.4				
			C8192	61.5	63.0	1.5	1.19	NIL				
74.50	76.20	MAFIC DYKE (MAFIC TUFF?)  Medium green, fine-grained and massive. Contains numerous chloritic "fragments" or "inclusions". Their size ranges from 1/8" to 3/4". Pyrite content: Negligible.	C8193	63.0	64.5	1.5	0.37	NIL				
244.4'	250.0'		C8194	64.5	66.0	1.5	0.18	NIL				
			C8195	66.0	67.5	1.5	0.99	NIL				
			C8196	67.5	69.0	1.5	0.07	NIL				
			C8197	69.0	70.5	1.5	0.08	NIL				
			C8198	70.5	72.0	1.5	0.45	NIL				
			C8199	72.0	73.5	1.5	0.23	NIL				
76.20	78.10	TUFF  Same as 73.50 - 74.50. Pyrite content: 3-6%.	C8200	73.5	74.5	1.0	0.16	NIL				
250.0'	256.2'		C8201	74.5	76.2	1.7	0.22	0.2				
			C8202	76.2	78.1	1.9	0.16	0.2				
78.10	117.10	TUFF WITH MINOR LAPILLI TUFF  The tuff is light grey to medium grey. It has a felsic to intermediate composition. The lapilli tuff has the same composition. Most of this section is composed of tuff (95%). Pyrite content: 1-8%. Numerous thin fractures in this section, filled up with pyrite.  87.95 - 88.00: Pyritic bed - 30% pyrite.	C8203	78.1	79.5	1.4	0.13	NIL				
256.2'	384.2'		C8204	79.5	81.0	1.5	0.78	0.2				
			C8205	81.0	82.5	1.5	0.38	0.4				
			C8206	82.5	84.0	1.5	0.20	NIL				
			C8207	84.0	85.5	1.5	0.07	NIL				
			C8208	85.5	87.0	1.5	0.06	NIL				
			C8209	87.0	88.5	1.5	1.78	0.4				
			C8210	88.5	90.0	1.5	0.07	NIL				
			C8211	90.0	91.5	1.5	0.10	NIL				
			C8212	91.5	93.0	1.5	0.26	NIL				
			C8213	93.0	94.5	1.5	0.21	NIL				
117.10	END OF HOLE		C8214	94.5	96.0	1.5	0.24	NIL				
384.2'		C8215	96.0	97.5	1.5	0.14	NIL					
		C8216	97.5	99.0	1.5	0.17	NIL					
		C8217	99.0	100.5	1.5	0.32	NIL					
		C8218	100.5	102.0	1.5	0.07	NIL					
		C8219	102.0	103.5	1.5	2.27	0.2					
		C8220	103.5	105.0	1.5	0.11	NIL					
		C8221	105.0	106.5	1.5	0.12	NIL					
		C8222	106.5	108.0	1.5	0.03	NIL					
		C8223	108.0	109.5	1.5	0.08	NIL					
		C8224	109.5	111.0	1.5	1.13	NIL					



AMAX MINERALS EXPLORATION

Word:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
Hole No: 1050-01-34  
Date: Feb 24/81

Amax	Lab.	Interval		Sample	Sensitika		Lab.				Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au				Kept
Units		Metres	Metres	Metres	PPM	PPM					
C 8155		7.0	9.0	2.0	0.03	NIL					
C 8156		9.0	10.5	1.5	1.13	0.2					
C 8157		10.5	12.0	1.5	0.18	NIL					
C 8158		12.0	13.5	1.5	0.13	NIL					
C 8159		13.5	15.0	1.5	0.04	NIL					
C 8160		15.0	16.5	1.5	0.15	NIL					
C 8161		16.5	18.0	1.5	0.03	NIL					
C 8162		18.0	19.5	1.5	0.09	NIL					
C 8163		19.5	21.0	1.5	1.41	0.2					
C 8164		21.0	21.9	0.9	1.59 1.37	0.3					
C 8165		21.9	22.55	0.65	0.05	NIL					
C 8166		22.55	24.0	1.45	0.13	NIL					
C 8167		24.0	25.5	1.5	0.03	NIL					
C 8168		25.5	27.0	1.5	0.24	0.2					
C 8169		27.0	28.5	1.5	0.06	NIL					
C 8170		28.5	30.0	1.5	0.01	NIL					
C 8171		30.0	31.5	1.5	0.02	NIL					
C 8172		31.5	33.0	1.5	0.16	NIL					
C 8173		33.0	34.5	1.5	0.10	NIL					
C 8174		34.5	36.0	1.5	0.05	NIL					
C 8175		36.0	37.5	1.5	0.38	0.2					
C 8176		37.5	39.0	1.5	1.96	0.3					
C 8177		39.0	40.5	1.5	2.43 2.74	0.5					
C 8178		40.5	42.0	1.5	0.16	NIL					

AMAX MINERALS EXPLORATION

Cord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050-01-34  
 Date: Feb. 24/81.

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	Scientika		Lab.				Rejects Kept	
		From	To		Au	Ag	Au					
		Metres	Metres		PPM	PPM						
		Units		Metres								
C 8179				47.0	48.5	1.5	0.10	NIL				
C 8180				43.5	45.0	1.5	0.22	0.3				
C 8181				45.0	46.5	1.5	0.28	0.2				
C 8182				46.5	48.0	1.5	0.11	0.2				
C 8183				48.0	49.5	1.5	0.11	0.2				
C 8184				49.5	51.0	1.5	0.17	NIL				
C 8185				51.0	52.5	1.5	0.18	NIL				
C 8186				52.5	54.0	1.5	1.35	0.2				
C 8187				54.0	55.5	1.5	0.10	NIL				
C 8188				55.5	57.0	1.5	0.10	NIL				
C 8189				57.0	58.5	1.5	0.10	NIL				
C 8190				58.5	60.0	1.5	0.15	NIL				
C 8191				60.0	61.5	1.5	0.94	0.4				
C 8192				61.5	63.0	1.5	1.19	NIL				
C 8193				63.0	64.5	1.5	1.03	NIL				
C 8194				63.0	64.5	1.5	0.37	NIL				
C 8194				64.5	66.0	1.5	0.18	NIL				
C 8195				66.0	67.5	1.5	0.99	NIL				
C 8196				67.5	69.0	1.5	0.07	NIL				
C 8197				69.0	70.5	1.5	0.08	NIL				
C 8198				70.5	72.0	1.5	0.45	NIL				
C 8199				72.0	73.5	1.5	0.23	NIL				
C 8200				73.5	74.5	1.0	0.16	NIL				
C 8201				74.5	76.2	1.7	0.22	0.2				
C 8202				76.2	78.1	1.9	0.16	0.2				

AMAX MINERALS EXPLORATION

Coord:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
Hole No: 1050-01-34  
Date: Feb. 16/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.				Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au				Kept
Units		Meters	Meters	Meters	PPM	PPM					
C8203		78.1	79.5	1.40	0.13	NIL					
C8204		79.5	81.0	1.50	0.78	0.2					
C8205		81.0	82.5	1.50	0.38	0.4					
C8206		82.5	84.0	1.50	0.20	NIL					
C8207		84.0	85.5	1.50	0.07	NIL					
C8208		85.5	87.0	1.50	0.06	NIL					
C8209		87.0	88.5	1.50	1.78 1.37	0.4					
C8210		88.5	90.0	1.50	0.07	NIL					
C8211		90.0	91.5	1.50	0.10	NIL					
C8212		91.5	93.0	1.50	0.26	NIL					
C8213		93.0	94.5	1.50	0.21	NIL					
C8214		94.5	96.0	1.50	0.24	NIL					
C8215		96.0	97.5	1.50	0.14	NIL					
C8216		97.5	99.0	1.50	0.17	NIL					
C8217		99.0	100.5	1.50	0.32	NIL					
C8218		100.5	102.0	1.50	0.07	NIL					
C8219		102.0	103.5	1.50	2.27 1.72	0.2					
C8220		103.5	105.0	1.50	0.11	NIL					
C8221		105.0	106.5	1.50	0.12	NIL					
C8222		106.5	108.0	1.50	0.03	NIL					
C8223		108.0	109.5	1.50	0.08	NIL					
C8224		109.5	111.0	1.50	1.13	NIL					
C8225		111.0	112.5	1.50	0.14	NIL					
C8226		112.5	114.0	1.50	0.14	NIL					





**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-35

Collar Elevation: 4,978'

Hole No. 1050-01-35 Sheet 1	Length 195 metres	Commenced February 6, 1981	Dip: Collar -45°
Property Mirado (1050-01)	Bearing S35W	Completed February 10, 1981	
Township Catharine	Dip -45°	Drilling Co. St. Lambert	
Location L - 0+54E at 3 +01N, (Section G)	Objective To complete information between 1050-21 and 1050-22.	Core Size BQ	Etch Test
Logged By J. Sudden		Casing Left/Lost in Hole	1 60m -53° -44½° 2 120m -49° -40°/4P 3 195m -43° -35°
Core Location Timmins			

Location Sketch: A square diagram with '24690' at the top and '1050-01-35' at the bottom. An arrow points upwards from the center, labeled 'North'. To the right of the sketch, it says 'Claim No. 24690' and 'Scale: 1/4 1320''.

Remarks: Type Specimens: 7.7, 21.0, 52.0, 88.2, 107.7, 114.9, 120.6, 140.0

Footage metres/futt		DESCRIPTION	Sample No.	From	To	Length (meters)	Au ppm	Ag pm				
From	To											
0	4.00	CASING	C8229	4.0	6.0	2.0	0.13	NIL				
0	13.1'		C8230	6.0	7.5	1.5	0.16	NIL				
			C8231	7.5	9.0	1.5	0.21	NIL				
4.00	23.50	LAPILLI TUFF	C8232	9.0	10.5	1.5	0.10	NIL				
13.1'	77.1'		C8233	10.5	12.0	1.5	0.03	NIL				
			C8234	12.0	13.5	1.5	0.03	NIL				
23.50	24.80	SYENITE DYKE	C8235	13.5	15.0	1.5	NIL	NIL				
77.1'	81.3'		C8236	15.0	16.5	1.5	0.04	NIL				
			C8237	16.5	18.0	1.5	0.14	0.3				
24.80	51.00	LAPILLI TUFF * VISIBLE GOLD AT 35.50 METRES	C8238	18.0	19.5	1.5	1.89	0.5				
81.3'	167.3'		C8239	19.5	21.0	1.5	0.08	NIL				
			C8240	21.0	23.5	2.5	1.29	NIL				
51.00	54.00	CRYSTAL TUFF	C8241	23.5	24.8	1.3	0.04	NIL				
167.3'	177.1'		C8242	24.8	27.0	2.2	0.21	NIL				
			C8243	27.0	29.7	2.7	0.10	0.2				
54.00	85.00	LAPILLI TUFF	C8244	29.7	31.5	1.8	0.10	NIL				
177.1'	278.8'		C8245	31.5	33.0	1.5	0.08	NIL				
			C8246	33.0	34.5	1.5	0.05	NIL				
85.00	90.10	INTERMEDIATE LAVA	C8247	34.5	36.0	1.5	0.85	NIL				
278.8'	295.5'		C8248	36.0	37.5	1.5	4.80	0.2				
			C8249	37.5	39.0	1.5	0.68	NIL				
90.10	94.70	INTERMEDIATE CRYSTAL TUFF	C8250	39.0	40.5	1.5	0.44	NIL				
295.5'	310.6'		C8251	40.5	42.0	1.5	0.24	NIL				
			C8252	42.0	43.5	1.5	1.13	NIL				
94.70	109.60	LAPILLI TUFF	C8253	43.5	45.0	1.5	0.14	NIL				
310.6'	359.5'		C8254	45.0	46.5	1.5	1.03	NIL				
			C8255	46.5	48.0	1.5	1.17	NIL				
			C8256	48.0	49.5	1.5	0.17	NIL				

**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-35  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length meters	Au ppm	Ag ppm				
From	To											
109.60	118.50	DIORITE	C8257	49.5	51.0	1.5	0.58	NIL				
359.5'	388.7'		C8258	51.0	52.5	1.5	0.72	NIL				
		LAPILLI TUFF	C8259	52.5	54.0	1.5	1.89	0.3				
118.50	128.70		C8260	54.0	55.5	1.5	14.75	1.5				
388.7'	422.1'		C8261	55.5	57.0	1.5	0.11	0.2				
			C8262	57.0	58.5	1.5	0.17	0.2				
128.70	144.10	INTERMEDIATE CRYSTAL TUFF	C8263	58.5	60.0	1.5	0.12	NIL				
422.1'	472.6'		C8264	60.0	61.5	1.5	0.03	NIL				
			C8265	61.5	63.0	1.5	0.07	NIL				
144.10	155.70		LAPILLI TUFF * VISIBLE GOLD AT 147.90 METRES	C8266	63.0	64.5	1.5	0.17	0.2			
472.6'	510.7'		C8267	64.5	66.0	1.5	0.10	0.2				
		INTERMEDIATE CRYSTAL TUFF	C8268	66.0	67.5	1.5	0.06	NIL				
155.70	195.00		C8269	67.5	69.0	1.5	0.21	0.3				
510.7'	639.6'		C8270	69.0	70.5	1.5	2.81	0.5				
			C8271	70.5	72.0	1.5	0.16	0.3				
	195.00	END OF HOLE	C8272	72.0	73.5	1.5	14.75	1.4				
	639.6'		C8273	73.5	75.0	1.5	0.23	0.2				
			C8274	75.0	76.5	1.5	0.11	NIL				
			C8275	76.5	78.0	1.5	0.14	0.2				
			C8276	78.0	79.5	1.5	0.14	0.2				
			C8277	79.5	81.0	1.5	0.06	NIL				
			C8278	81.0	82.5	1.5	0.05	NIL				
			C8279	82.5	85.0	2.5	0.13	0.3				
			C8280	85.0	87.5	2.5	0.14	NIL				
			C8281	87.5	90.1	2.6	7.61	1.0				
			C8282	90.1	92.4	2.3	0.10	NIL				
			C8283	92.4	94.7	2.3	0.04	NIL				
			C8284	94.7	97.1	2.4	0.05	NIL				
			C8285	97.1	99.5	2.4	0.07	NIL				
			C8286	99.5	100.5	1.0	0.16	NIL				
			C8287	100.5	102.0	1.5	0.55	0.2				
		C8288	102.0	103.5	1.5	0.48	NIL					
		C8289	103.5	105.0	1.5	2.86	0.3					
		C8290	105.0	107.3	2.3	1.93	0.3					
		C8291	107.3	108.45	1.15	0.10	0.3					
		C8292	108.45	109.6	1.15	0.14	0.4					
		C8293	109.6	112.6	3.0	NIL	NIL					
		C8294	112.6	115.6	3.0	NIL	NIL					
		C8295	115.6	118.5	2.9	NIL	NIL					



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-35  
Sheet No. 3

Footage metres/feet		DESCRIPTION	Sample No.	From	To (metres)	Length	Au ppm	Ag ppm							
From	To														
0	4.00	CASING													
0	13.1'														
4.00	23.50	LAPILLI TUFF	C8229	4.0	6.0	2.0	0.13	NIL							
13.1'	77.1'		C8230	6.0	7.5	1.5	0.16	NIL							
		Same as 1050-33, from 12.3 to 16.8.	C8231	7.5	9.0	1.5	0.21	NIL							
		Medium-grey, felsic fragments in an intermediate matrix. Fragments usually less than 1/4". 1-7% pyrite - disseminated.	C8232	9.0	10.5	1.5	0.10	NIL							
			C8233	10.5	12.0	1.5	0.03	NIL							
			C8234	12.0	13.5	1.5	0.03	NIL							
23.50	24.80	SYENITE DYKE	C8235	13.5	15.0	1.5	NIL	NIL							
77.1'	81.3'		C8236	15.0	16.5	1.5	0.04	NIL							
		As in previous hole.	C8237	16.5	18.0	1.5	0.14	0.3							
			C8238	18.0	19.5	1.5	1.89	0.5							
24.80	51.00	LAPILLI TUFF	C8239	19.5	21.0	1.5	0.08	NIL							
81.3'	167.3'		C8240	21.0	23.5	2.5	1.29	NIL							
		Same as 4.00 - 23.5.	C8241	23.5	24.8	1.3	0.04	NIL							
		Weakly to moderately carbonated. 1-7% disseminated pyrite and occasional irregular seams and small clots.	C8242	24.8	27.0	2.2	0.21	NIL							
			C8243	27.0	29.7	2.7	0.10	0.2							
			C8244	29.7	31.5	1.8	0.10	NIL							
		25.75 - 29.70: Diorite; fine-grained, dark greyish-green. Very weak carbonate; negligible pyrite. Contacts are irregular and indistinct.	C8245	31.5	33.0	1.5	0.08	NIL							
			C8246	33.0	34.5	1.5	0.05	NIL							
			C8247	34.5	36.0	1.5	0.85	NIL							
			C8248	36.0	37.5	1.5	4.80	0.2							
		27.50 - 45.50: Series of quartz-carbonate stringers @ 35° - 45°.	C8249	37.5	39.0	1.5	0.68	NIL							
			C8250	39.0	40.5	1.5	0.44	NIL							
		36.30 - 44.80: Best pyrite mineralization; 10-12% pyrite.	C8251	40.5	42.0	1.5	0.24	NIL							
			C8252	42.0	43.5	1.5	1.13	NIL							
			C8253	43.5	45.0	1.5	0.14	NIL							
			C8254	45.0	46.5	1.5	1.03	NIL							
		Intermediate crystal tuff with rare fragments up to 2". Fine-grained matrix; greyish-green, massive; not carbonated.	C8255	46.5	48.0	1.5	1.17	NIL							
			C8256	48.0	49.5	1.5	0.17	NIL							
		2% disseminated pyrite and in occasional seams.	C8257	49.5	51.0	1.5	0.58	NIL							
			C8258	51.0	52.5	1.5	0.72	NIL							
			C8259	52.5	54.0	1.5	1.89	0.3							

AMAX MINERALS EXPLORATION  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-35  
Sheet No. 4

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
54.00	85.00	LAPILLI TUFF	C8260	54.0	55.5	1.5	14.75	1.5				
177.1'	278.8'		C8261	55.5	57.0	1.5	0.11	0.2				
		Greyish-green, massive; as in 24.8 - 51.0.	C8262	57.0	58.5	1.5	0.17	0.2				
		Not carbonated; 1-6% pyrite.	C8263	58.5	60.0	1.5	0.12	NIL				
			C8264	60.0	61.5	1.5	0.03	NIL				
		55.0 - 56.0: Well banded @ 50°.	C8265	61.5	63.0	1.5	0.07	NIL				
			C8266	63.0	64.5	1.5	0.17	0.2				
		62.9 - 64.4: Mafic crystal tuff; dark-green, fine-grained; massive.	C8267	64.5	66.0	1.5	0.10	0.2				
		Negligible to 2% pyrite.	C8268	66.0	67.5	1.5	0.06	NIL				
			C8269	67.5	69.0	1.5	0.21	0.3				
		72.1 - 75.7: Mafic section; finer grained.	C8270	69.0	70.5	1.5	2.81	0.5				
		72.5 - 74.0: Several 1/8" barren quartz stringers @ 30°.	C8271	70.5	72.0	1.5	0.16	0.3				
			C8272	72.0	73.5	1.5	14.75	1.4				
			C8273	73.5	75.0	1.5	0.23	0.2				
85.00	90.10	INTERMEDIATE LAVA	C8274	75.0	76.5	1.5	0.11	NIL				
278.8'	295.5'		C8275	76.5	78.0	1.5	0.14	0.2				
		Dark green, fine-grained, massive, well carbonated.	C8276	78.0	79.5	1.5	0.14	0.2				
		1-2% finely disseminated pyrite.	C8277	79.5	81.0	1.5	0.06	NIL				
			C8278	81.0	82.5	1.5	0.05	NIL				
		87.7 - 89.1: lapilli tuff.	C8279	82.5	85.0	2.5	0.13	0.3				
			C8280	85.0	87.5	2.5	0.14	NIL				
90.10	94.70	INTERMEDIATE CRYSTAL TUFF	C8281	87.5	90.1	2.6	7.61	1.0				
295.5'	310.6'		C8282	90.1	92.4	2.3	0.10	NIL				
		Medium-grey, massive; fine-grained, weakly carbonated.	C8283	92.4	94.7	2.3	0.04	NIL				
		1% finely disseminated pyrite.										
94.70	109.60	LAPILLI TUFF	C8284	94.7	97.1	2.4	0.05	NIL				
310.6'	359.5'		C8285	97.1	99.5	2.4	0.07	NIL				
		Mottled green and grey. Mafic fragments in felsic matrix. Fragments up to 3/8". Not carbonated.	C8286	99.5	100.5	1.0	0.16	NIL				
			C8287	100.5	102.0	1.5	0.55	0.2				
			C8288	102.0	103.5	1.5	0.48	NIL				
		94.7 - 99.5: 5% pyrite.	C8289	103.5	105.0	1.5	2.86	0.3				
		99.5 - 109.6: 10-15% disseminated pyrite and in clots and seams.	C8290	105.0	107.3	2.3	1.93	0.3				
		107.3 - 108.45: Diorite, dark green, massive.	C8291	107.3	108.45	1.15	0.10	0.3				
		Fine-grained, moderately carbonated, negligible pyrite.	C8292	108.45	109.6	1.15	0.14	0.4				





1-

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Ord:  
Azimuth:  
Dip:  
Elev:

Project No: 1050  
Hole No: 1050 01-35  
Date: February 1981.

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.			Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au			Kept
Units		METRES	METRES	METRES	PPM	PPM				
C0155		128.7	130.0	1.30	0.40 0.34	NIL				
C0156		130.0	133.0	3.00	0.03	NIL				
C0157		133.0	136.0	3.00	0.03	NIL				
C0158		136.0	139.0	3.00	0.02	NIL				
C0159		139.0	142.0	3.00	0.12	NIL				
C0160		142.0	144.1	2.10	0.10	0.2				
C0153		155.7	158.0	2.30	0.07	0.2				
C0154		158.0	161.0	3.00	0.07	NIL				
C8229		4.0	6.0	2.00	0.13	NIL				
C8230		6.0	7.5	1.50	0.16	NIL				
C8231		7.5	9.0	1.50	0.21	NIL				
C8232		9.0	10.5	1.50	0.10	NIL				
C8233		10.5	12.0	1.50	0.03	NIL				
C8234		12.0	13.5	1.50	0.03	NIL				
C8235		13.5	15.0	1.50	NIL	NIL				
C8236		15.0	16.5	1.50	0.04	NIL				
C8237		16.5	18.0	1.50	0.14	0.3				
C8238		18.0	19.5	1.50	1.89 1.37	0.5				
C8239		19.5	21.0	1.50	0.08	NIL				
C8240		21.0	23.5	2.50	1.29	NIL				
C8241		23.5	24.8	1.30	0.04	NIL				
C8242		24.8	27.0	2.20	0.21	NIL				
C8243		27.0	29.7	2.70	0.10	0.2				



AMAX MINERALS EXPLORATION

Ord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050 01-35  
 Date: Feb. 16/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.		Rejects Kept
Sample No.	Sample No.	From	To	Width	Au	Ag	Au		
Units	Metric	Metric	Metric	PPM	PPM				
C8244		29.7	31.5	1.80	0.10	NIL			
C8245		31.5	33.0	1.50	0.08	NIL			
C8246		33.0	34.5	1.50	0.05	NIL			
C8247		34.5	36.0	1.50	0.85	NIL			
C8248		36.0	37.5	1.50	3.53 4.80	0.2			
C8249		37.5	39.0	1.50	0.68	NIL			
C8250		39.0	40.5	1.50	0.44	NIL			
C8251		40.5	42.0	1.50	0.24	NIL			
C8252		42.0	43.5	1.50	1.13	NIL			
C8253		43.5	45.0	1.50	0.14	NIL			
C8254		45.0	46.5	1.50	1.03	NIL			
C8255		46.5	48.0	1.50	1.17	NIL			
C8256		48.0	49.5	1.50	0.17	NIL			
C8257		49.5	51.0	1.50	0.58	NIL			
C8258		51.0	52.5	1.50	0.72	NIL			
C8259		52.5	54.0	1.50	1.89	0.3			
* C8260		54.0	55.5	1.50	14.65 14.75	1.5			
C8261		55.5	57.0	1.50	0.11	0.2			
C8262		57.0	58.5	1.50	0.17	0.2			
C8263		58.5	60.0	1.50	0.12	NIL			
C8264		60.0	61.5	1.50	0.03	NIL			
C8265		61.5	63.0	1.50	0.07	NIL			
C8266		63.0	64.5	1.50	0.17	0.2			
C8267		64.5	66.0	1.50	0.10	0.2			
* C8260		2ND PULP			16.80 20.91				

AMAX MINERALS EXPLORATION

Cord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050 01-35  
 Date: Jul 17/81

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SWASTIKA		Lab.			Rejects Kept
		From	To		Au	Ag	Au			
Units		Meters	Meters	Meters	PPM	PPM				
C8268		66.0	67.5	1.50	0.06	Nil				
C8269		67.5	69.0	1.50	0.21	0.3				
C8270		69.0	70.5	1.50	2.81	0.5				
C8271		70.5	72.0	1.50	0.16	0.3				
C8272		72.0	73.5	1.50	14.06 14.75	1.4				
C8273		73.5	75.0	1.50	0.23	0.2				
C8274		75.0	76.5	1.50	0.11	Nil				
C8275		76.5	78.0	1.50	0.14	0.2				
C8276		78.0	79.5	1.50	0.14	0.2				
C8277		79.5	81.0	1.50	0.06	Nil				
C8278		81.0	82.5	1.50	0.05	Nil				
C8279		84.0	85.0	1.00	0.13	0.3				
C8280		85.0	87.5	2.50	0.14	Nil				
C8281		87.5	90.1	2.60	7.61 7.55	1.0				
C8282		90.1	92.4	2.30	0.10	Nil				
C8283		92.4	94.7	2.30	0.04	Nil				
C8284		94.7	97.1	2.40	0.05	Nil				
C8285		97.1	99.5	2.40	0.07	Nil				
C8286		99.5	100.5	1.00	0.16	Nil				
C8287		100.5	102.0	1.50	0.55	0.2				
C8288		102.0	103.5	1.50	0.48	Nil				
C8289		103.5	105.0	1.50	2.86	0.3				
C8290		105.0	107.3	2.30	1.93	0.3				
C8291		107.3	108.45	1.15	0.10	0.3				



**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Collar Elevation: 4,971'

Hole No. 1050-01-36

Hole No. 1050-01-36 Sheet 1	Length 174.0 metres	Commenced February 10, 1981	Dip: Collar -45°																
Property Mirado (1050-01)	Bearing S35°W	Completed February 13, 1981	<table border="1"> <tr> <th>Etch Test</th> <th>Depth</th> <th>Rdg.</th> <th>True</th> </tr> <tr> <td>1</td> <td>50m</td> <td>-49°</td> <td>-40°</td> </tr> <tr> <td>2</td> <td>120m</td> <td>-47½°</td> <td>-39°</td> </tr> <tr> <td>3</td> <td>174m</td> <td>-46¼°</td> <td>-38°</td> </tr> </table>	Etch Test	Depth	Rdg.	True	1	50m	-49°	-40°	2	120m	-47½°	-39°	3	174m	-46¼°	-38°
Etch Test	Depth	Rdg.		True															
1	50m	-49°		-40°															
2	120m	-47½°	-39°																
3	174m	-46¼°	-38°																
Township Catharine	Dip -45°	Drilling Co. St. Lambert																	
Location L - 0+13W at 1+71N (Section F)	Objective To test zone beneath 1050-01-22.	Core Size BQ	<p>Location Sketch North</p> <p>Claim No. 24690</p> <p>Scale: 1" = 1320'</p>																
Logged By J. Sugden		Casing Left/Lost in Hole																	
Core Location Timmins																			

Remarks Core Specimens at: 29.1, 44.1, 58.8, 65.7, 92.2, 108.0, 173.6

Footage/metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
0	9.80	CASING	C8310	9.8	12.0	2.2	0.13	NIL				
0	32.1'		C8311	12.0	13.5	1.5	0.29	NIL				
			C8312	13.5	15.2	1.7	0.45	NIL				
9.80	24.40	AGGLOMERATE	C8313	15.2	15.9	0.7	2.40	1.7				
32.1'	80.0'		C8314	15.9	18.0	2.1	0.45	0.3				
			C8315	18.0	19.5	1.5	0.81	NIL				
24.40	40.90	LAPILLI TUFF	C8316	19.5	21.0	1.5	0.11	NIL				
80.0'	134.2'		C8317	21.0	22.5	1.5	0.37	NIL				
			C8318	22.5	24.0	1.5	0.51	NIL				
40.90	52.00	INTERMEDIATE CRYSTAL TUFF	C8319	24.0	25.5	1.5	0.27	NIL				
134.2'	170.6'		C8320	25.5	27.0	1.5	0.62	NIL				
			C8321	27.0	28.5	1.5	0.21	NIL				
52.00	62.20	LAPILLI TUFF	C8322	28.5	30.5	1.5	0.65	NIL				
170.6'	204.0'		C8323	30.0	31.5	1.5	1.72	NIL				
			C8324	31.5	33.0	1.5	0.34	NIL				
62.20	66.50	LAPILLI AND CRYSTAL TUFF	C8325	33.0	34.5	1.5	0.10	0.2				
204.0'	218.1'		C8326	34.5	36.0	1.5	0.12	NIL				
			C8327	36.0	37.5	1.5	0.02	NIL				
66.50	139.20	LAPILLI TUFF	C8328	37.5	39.0	1.5	0.10	NIL				
218.1'	456.6'		C8329	39.0	41.85	2.85	0.38	NIL				
			C8330	41.85	42.0	0.15	3.67	0.7				
139.20	151.90	MAINLY CRYSTAL TUFF	C8409	42.0	45.0	3.0	0.21	NIL				
456.6'	498.2'		C8410	45.0	48.0	3.0	0.10	NIL				
			C8331	48.0	49.5	1.5	0.17	NIL				
151.90	155.30	LAPILLI TUFF	C8332	49.5	51.0	1.5	0.62	0.2				
498.2'	509.4'		C8333	51.0	52.0	1.0	0.43	NIL				
			C8334	52.0	54.0	2.0	0.24	NIL				
			C8335	54.0	55.8	1.8	0.08	NIL				

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-36  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
155.30	166.75	AGGLOMERATIC LAPILLI TUFF	C8336	55.8	57.7	1.9	0.24	NIL				
509.4'	546.9'		C8337	57.7	60.0	2.3	0.21	NIL				
			C8338	60.0	62.2	2.2	0.03	NIL				
166.75	174.00	INTERMEDIATE CRYSTAL TUFF	C8339	62.2	64.5	2.3	0.16	NIL				
546.9'	570.7'		C8340	64.5	66.0	1.5	0.10	NIL				
			C8341	66.0	67.5	1.5	0.03	NIL				
	174.00	END OF HOLE	C8342	67.5	69.0	1.5	0.01	NIL				
	570.7'		C8343	69.0	70.5	1.5	0.05	NIL				
			C8344	70.5	72.0	1.5	0.11	NIL				
			C8345	72.0	73.5	1.5	0.08	NIL				
			C8346	73.5	75.0	1.5	0.11	NIL				
			C8347	75.0	76.5	1.5	0.08	NIL				
			C8348	76.5	78.0	1.5	0.03	NIL				
			C8349	78.0	79.5	1.5	0.04	NIL				
			C8350	79.5	81.0	1.5	0.03	NIL				
			C8351	81.0	82.5	1.5	0.07	NIL				
			C8352	82.5	84.0	1.5	0.07	NIL				
			C8353	84.0	85.5	1.5	0.01	NIL				
			C8354	85.5	87.0	1.5	0.02	NIL				
			C8355	87.0	88.5	1.5	0.10	NIL				
			C8356	88.5	90.0	1.5	0.14	NIL				
			C8357	90.0	91.5	1.5	0.49	0.2				
			C8358	91.5	93.0	1.5	0.06	NIL				
		C8359	93.0	94.5	1.5	0.07	0.2					
		C8360	94.5	96.0	1.5	0.05	0.2					
		C8361	96.0	98.2	2.2	0.31	0.2					
		C8362	98.2	99.9	1.7	0.23	NIL					
		C8363	99.9	100.5	0.6	1.72	0.6					
		C8364	100.5	102.0	1.5	0.93	0.4					
		C8365	102.5	103.5	1.5	0.26	0.3					
		C8366	103.5	105.0	1.5	0.37	0.3					
		C8367	105.0	106.5	1.5	0.44	NIL					
		C8368	106.5	108.2	1.7	0.34	NIL					
		C8369	108.2	109.9	1.7	0.32	NIL					
		C8370	109.9	111.0	1.1	0.09	NIL					
		C8371	111.0	112.5	1.5	0.09	NIL					
		C8372	112.5	114.0	1.5	1.45	0.3					
		C8373	114.0	115.5	1.5	1.04	0.3					
		C8374	115.5	117.0	1.5	1.83	0.2					

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-36  
Sheet No. 2A

Footage		DESCRIPTION	Sample No.	From	To	Length (meters)	Au ppm	Ag ppm				
From	To											
			C8375	117.0	118.5	1.5	0.75	NIL				
			C8376	118.5	120.0	1.5	0.30	NIL				
			C8377	120.0	121.5	1.5	0.19	NIL				
			C8378	121.5	123.0	1.5	0.10	NIL				
			C8379	123.0	124.5	1.5	0.33	NIL				
			C8380	124.5	126.0	1.5	0.30	0.3				
			C8381	126.0	127.8	1.8	0.13	NIL				
			C8382	127.8	128.35	0.55	0.01	NIL				
			C8383	128.35	129.0	0.65	0.16	NIL				
			C8384	129.0	130.5	1.5	0.12	NIL				
			C8385	130.5	132.0	1.5	0.04	NIL				
			C8386	132.0	133.5	1.5	0.06	NIL				
			C8387	133.5	135.0	1.5	0.41	0.4				
			C8388	135.0	136.5	1.5	0.41	NIL				
			C8389	136.5	138.0	1.5	0.10	NIL				
			C8390	138.0	139.2	1.2	0.06	NIL				
			C8391	139.2	141.0	1.8	0.13	0.3				
			C8392	141.0	142.5	1.5	0.13	NIL				
			C8393	142.5	144.0	1.5	0.16	NIL				
			C8394	144.0	145.5	1.5	0.10	NIL				
			C8395	145.5	147.0	1.5	0.06	NIL				
			C8396	147.0	148.5	1.5	0.03	NIL				
			C8397	148.5	150.0	1.5	0.05	NIL				
			C8398	150.0	151.9	1.9	0.14	NIL				
			C8399	151.9	153.0	1.1	0.08	NIL				
			C8400	153.0	155.3	2.3	0.03	NIL				
			C8401	155.3	157.5	2.2	0.03	NIL				
			C8402	157.5	159.0	1.5	0.06	NIL				
			C8403	159.0	160.5	1.5	0.10	NIL				
			C8404	160.5	162.0	1.5	0.07	NIL				
			C8405	162.0	163.5	1.5	NIL	NIL				
			C8406	163.5	165.0	1.5	1.07	0.6				
			C8407	165.0	166.75	1.75	0.65	0.4				
			C8408	166.75	168.6	1.85	0.14	NIL				



**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-36  
Sheet No. 4

Footage/metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
62.20	66.50	LAPILLI AND CRYSTAL TUFF	C8339	62.2	64.5	2.3	0.06	NIL				
204.0'	218.1'		C8340	64.5	66.0	1.5	0.10	NIL				
		Dark grey, massive. Medium to fine-grained. Not carbonated except in finer-grained sections. Grades locally into crystal tuff. 4-6% pyrite.										
		66.2: Sharp bedding contact @ 50°. Coarse above and fine-grained below, grading downhole to coarser bed.										
66.50	139.20	LAPILLI TUFF	C8341	66.0	67.5	1.5	0.03	NIL				
218.1'	456.6'		C8342	67.5	69.0	1.5	0.01	NIL				
		Medium-greenish-grey, massive. Fragments vary from felsic to mafic, seldom larger than 6-8 mm. Not carbonated; 6-10% pyrite, disseminated and in small clots and seams.	C8343	69.0	70.5	1.5	0.05	NIL				
			C8344	70.5	72.0	1.5	0.11	NIL				
			C8345	72.0	73.5	1.5	0.08	NIL				
			C8346	73.5	75.0	1.5	0.11	NIL				
		76.65 - 77.60: crystal tuff, fine-grained, massive. Contacts @ 45° and 55°. Negligible pyrite.	C8347	75.0	76.5	1.5	0.08	NIL				
		80.00 - 139.2: Mainly mafic fragments.	C8348	76.5	78.0	1.5	0.03	NIL				
		98.2 - 99.9: crystal tuff; dark grey, fine-grained. Negligible pyrite. Lower contact @ 35°. Well carbonated.	C8349	78.0	79.5	1.5	0.04	NIL				
		99.9 - 109.9: 10-20% pyrite in clots and seams.	C8350	79.5	81.0	1.5	0.03	NIL				
		127.8 - 128.35: crystal tuff; dark grey, massive. Fine-grained matrix with sparse mafic fragments up to 4mm. Not carbonated; negligible pyrite. Upper contact @ 65°.	C8351	81.0	82.5	1.5	0.07	NIL				
			C8352	82.5	84.0	1.5	0.07	NIL				
			C8353	84.0	85.5	1.5	0.01	NIL				
			C8354	85.5	87.0	1.5	0.02	NIL				
			C8355	87.0	88.5	1.5	0.10	NIL				
			C8356	88.5	90.0	1.5	0.14	NIL				
			C8357	90.0	91.5	1.5	0.49	0.2				
		128.35 - 132.6: Agglomerate with felsic fragments (2½" - 3").	C8358	91.5	93.0	1.5	0.06	NIL				
			C8359	93.0	94.5	1.5	0.07	0.2				
		135.0 - 139.2: Pyrite decreases downhole to 4%.	C8360	94.5	96.0	1.5	0.05	0.2				
			C8361	96.0	98.2	2.2	0.31	0.2				
139.20	151.90	MAINLY CRYSTAL TUFF	C8362	98.2	99.9	1.7	0.23	NIL				
456.6'	498.2'		C8363	99.9	100.5	0.6	1.72	0.6				
		Medium greenish-grey, fine-grained matrix with scattered mafic fragments up to 2". Massive. Gradational contacts above and below. Not carbonated. 2-3% disseminated pyrite.	C8364	100.5	102.0	1.5	0.93	0.4				
			C8365	102.5	103.5	1.5	0.26	0.3				
			C8366	103.5	105.0	1.5	0.37	0.3				
			C8367	105.0	106.5	1.5	0.44	NIL				
			C8368	106.5	108.2	1.7	0.34	NIL				
			C8369	108.2	109.9	1.7	0.32	NIL				
			C8370	109.9	111.0	1.1	0.09	NIL				





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AMAX MINERALS EXPLORATION

Ord:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
Hole No: 1050-01-36  
Date: February 1981.

Amax		Lab.		Lab.		Lab.		Lab.		Rejects Kept
Sample No.	Sample No.	Interval		Sample Width	SWASTIKA		Au			
		From	To		Au	Ag				
Units		METRES	METRES	METRES	PPM	PPM				
C8409		42.00	45.00	3.00	0.21	NIL				
C8410		45.00	48.00	3.00	0.10	NIL				
C8360		94.50	96.00	1.50	0.05	0.2				
C8361		96.00	98.20	2.20	0.31	0.2				
C8362		98.20	99.90	1.70	0.23	NIL				
C8363		99.90	100.50	0.60	1.57 1.72	0.6				
C8364		100.5	102.0	1.50	0.93	0.4				
C8365		102.0	103.5	1.50	0.26	0.3				
C8366		103.5	105.0	1.50	0.37	0.3				
C8367		105.0	106.5	1.50	0.44	NIL				
C8368		106.5	108.2	1.70	0.34	NIL				
C8369		108.2	109.9	1.70	0.32	NIL				
C8370		109.9	111.0	1.10	0.09	NIL				
C8371		111.0	112.5	1.50	0.09	NIL				
C8372		112.5	114.0	1.50	1.45	0.3				
C8373		114.0	115.5	1.50	1.04	0.3				
C8374		115.5	117.0	1.50	1.83 1.72	0.2				
C8375		117.0	118.5	1.50	0.75	NIL				
C8376		118.5	120.0	1.50	0.30	NIL				
C8377		120.0	121.5	1.50	0.19	NIL				
C8378		121.5	123.0	1.50	0.10	NIL				
C8379		123.0	124.5	1.50	0.33	NIL				
C8380		124.5	126.0	1.50	0.30	0.3				
C8381		126.0	127.8	1.80	0.13	NIL				

AMAX MINERALS EXPLORATION

- 2 -

Cord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1030  
 Hole No: 1030-01-36  
 Date: February 1981

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SWASTIKA		Lab.				Rejects Kept
		From	To		Au	Ag	Au				
Units		METRES	METRES	METRES	PPM	PPM					
C8382		127.8	128.35	0.55	0.01	NIL					
C8383		128.35	129.00	0.65	0.16	NIL					
C8384		129.0	130.5	1.50	0.12	NIL					
C8385		130.5	132.0	1.50	0.04	NIL					
C8386		132.0	133.5	1.50	0.06	NIL					
C8387		133.5	135.0	1.50	0.41	0.4					
C8388		135.0	136.5	1.50	0.40	NIL					
C8389		136.5	138.0	1.50	0.10	NIL					
C8390		138.0	139.2	1.20	0.06	NIL					
C8391		139.2	141.0	1.80	0.13	0.3					
C8392		141.0	142.6	1.60	0.13	NIL					
C8393		142.5	144.0	1.50	0.16	NIL					
C8394		144.0	145.5	1.50	0.10	NIL					
C8395		145.5	147.0	1.50	0.06	NIL					
C8396		147.0	148.5	1.50	0.03	NIL					
C8397		148.5	150.0	1.50	0.05	NIL					
C8398		150.0	151.9	1.90	0.14	NIL					
C8399		151.9	153.0	1.10	0.08	NIL					
C8400		153.0	155.3	2.30	0.03	NIL					
C8401		155.3	157.5	2.20	0.03	NIL					
C8402		157.5	159.0	1.50	0.06	NIL					
C8403		159.0	160.5	1.50	0.10	NIL					
C8404		160.5	162.0	1.50	0.07	NIL					
C8405		162.0	163.5	1.50	NIL	NIL					

AMAX MINERALS EXPLORATION

Coord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050-36  
 Date: February 1981

Amax		Lab.		Lab.		Lab.		Lab.		Rejects Kept
Sample No.	Sample No.	Interval		Sample Width	SWASTIKA		Au			
		From	To		Au	Ag				
Units		Meters	Meters	Meters	PPM	PPM	PPM			
C8406		163.5	165.0	1.50	1.07	0.6				
C8407		165.0	166.75	1.75	0.65	0.4				
C8408		166.75	168.6	1.85	0.14	NIL				
C8310		9.8	12.0	2.20	0.13	NIL				
C8311		12.0	13.5	1.50	0.29	NIL				
C8312		13.5	15.2	1.70	0.45	NIL				
C8313		15.2	15.9	0.70	2.16 2.40	1.7				
C8314		15.9	18.0	2.10	0.45	0.3				
C8315		18.0	19.5	1.50	0.81	NIL				
C8316		19.5	21.0	1.50	0.11	NIL				
C8317		21.0	22.5	1.50	0.37	NIL				
C8318		22.5	24.0	1.50	0.51	NIL				
C8319		24.0	25.5	1.50	0.27	NIL				
C8320		25.5	27.0	1.50	0.62	NIL				
C8321		27.0	28.5	1.50	0.21	NIL				
C8322		28.5	30.0	1.50	0.65	NIL				
C8323		30.0	31.5	1.50	1.72 1.37	NIL				
C8324		31.5	33.0	1.50	0.34	NIL				
C8325		33.0	34.5	1.50	0.10	0.2				
C8326		34.5	36.0	1.50	0.12	NIL				
C8327		36.0	37.5	1.50	0.02	NIL				
C8328		37.5	39.0	1.50	0.10	NIL				
C8329		39.0	41.85	2.85	0.38	NIL				

AMAX MINERALS EXPLORATION

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Co-ord:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1056 36  
Hole No: 1050-01A  
Date: Feb 19/81

Amax		Lab.			Lab.					Rej Ke
Sample No.	Sample No.	Interval		Sample Width	SWASTIKA		Au			
	Units	Metres	Metres	Metres	Au	Ag	Au			
					PPM	PPM				
C8330		41.85	42.0	0.15	3.67 3.09	0.7				
C8331		48.0	49.5	1.50	0.17	NIL				
C8332		49.5	51.0	1.50	0.62	0.2				
C8333		51.0	52.0	1.00	0.43	NIL				
C8334		52.0	54.0	2.00	0.24	NIL				
C8335		54.0	55.8	1.80	0.08	NIL				
C8336		55.8	57.7	1.90	0.24	NIL				
C8337		57.7	60.0	2.30	0.21	NIL				
C8338		60.0	62.2	2.20	0.03	NIL				
C8339		62.2	64.5	2.30	0.16	NIL				
C8340		64.5	66.0	1.50	0.10	NIL				
C8341		66.0	67.5	1.50	0.03	NIL				
C8342		67.5	69.0	1.50	0.01	NIL				
C8343		69.0	70.5	1.50	0.05	NIL				
C8344		70.5	72.0	1.50	0.11	NIL				
C8345		72.0	73.5	1.50	0.08	NIL				
C8346		73.5	75.0	1.50	0.11	NIL				
C8347		75.0	76.5	1.50	0.08	NIL				
C8348		76.5	78.0	1.50	0.03	NIL				
C8349		78.0	79.5	1.50	0.04	NIL				
C8350		79.5	81.0	1.50	0.03	NIL				
C8351		81.0	82.5	1.50	0.07	NIL				
C8352		82.5	84.0	1.50	0.07	NIL				
C8353		84.0	85.5	1.50	0.01	NIL				

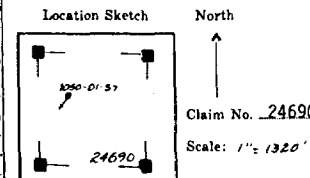


**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-37

Hole No. 1050-01-37 Sheet 1	Length 215.8 metres	Commenced February 13, 1981	Dip: Collar -48°
Property Mirado	Bearing S35°W	Completed February 16, 1981	Etch Test Depth Rdg. True
Township Catharine	Dip -48°	Drilling Co. St. Lambert	1 60m -54° -45½°
Location L - 0+13W @ 5+44N	Objective To explore ground	Core Size 80	2 120m -50° -41°
(Section F)	North of and beneath	Casing Left/Lost in Hole	3 180m -46½° -38°
Logged By J. Suggen	1050-01-22.		4 215m -44° -35½°
Core Location Timmins			

Remarks Core Specimens: 25.4, 40.1, 64.6, 72.0, 96.1, 105.6, 117.4, 149.6, 177.5, 205.2.



Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
0	7.80	CASING										
0	25.6'											
7.80	24.10	MAFIC CRYSTAL TUFF	C0293	7.8	9.0	1.2	1.43	0.6				
25.6'	79.0'		C0294	9.0	10.5	1.5	0.23	0.7				
			C0295	10.5	12.0	1.5	0.51	0.7				
			C0296	12.0	13.5	1.5	0.08	0.2				
			C0297	13.5	15.0	1.5	0.07	0.2				
24.10	41.00	LAPILLI TUFF/AGGLOMERATE	C0298	15.0	17.75	2.75	2.05	2.4				
79.0'	134.5'		C8411	17.75	19.6	1.85	2.78	4.6				
			C0299	19.6	21.0	1.4	0.41	2.6				
41.00	55.80	LAPILLI TUFF	C0300	21.0	22.5	1.5	0.85	2.4				
134.5'	183.0'		C0301	22.5	24.0	1.5	3.74	3.0				
			C0302	24.0	25.5	1.5	0.55	1.9				
55.80	57.90	AGGLOMERATE	C0303	25.5	27.0	1.5	0.34	0.9				
183.0'	189.9'		C0304	27.0	28.5	1.5	0.28	0.4				
			C0305	28.5	30.0	1.5	0.14	0.2				
57.90	69.70	LAPILLI TUFF	C0306	30.0	33.0	3.0	0.07	0.4				
189.9'	228.6'		C0307	33.0	34.5	1.5	0.11	0.5				
			C0308	34.5	36.0	1.5	0.14	0.6				
69.70	76.40	AGGLOMERATE	C0309	36.0	37.1	1.1	0.06	0.3				
228.6'	250.6'		C8412	37.1	37.45	0.35	0.14	0.5				
			C0310	37.45	39.0	1.55	0.02	NIL				
76.40	92.35	LAPILLI TUFF	C0311	39.0	42.0	3.0	0.02	NIL				
250.6'	302.9'		C0312	69.7	72.0	2.3	0.14	0.5				
			C0313	72.0	75.0	3.0	0.27	NIL				
92.35	99.90	CRYSTAL TUFF	C0314	75.0	76.40	1.4	0.04	NIL				
302.9'	327.7'		C0315	76.4	78.8	2.4	0.01	NIL				
			C0316	78.8	80.0	1.2	0.41	1.4				
99.90	114.40	LAPILLI TUFF	C0317	80.0	81.0	1.0	0.48	1.4				
327.7'	375.2'		C0318	81.0	82.5	1.5	0.34	0.5				

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-37  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
114.40	135.65	INTERMEDIATE LAVA													
375.2'	444.9'		C0319	82.5	84.0	1.5	0.38	0.7							
			C0320	84.0	85.5	1.5	2.06	0.8							
135.65	139.30	LAPILLI TUFF													
444.9'	456.9'		C0321	85.5	87.0	1.5	0.25	0.6							
			C0322	87.0	88.5	1.5	0.86	0.8							
139.30	141.35	SYENITE PORPHYRY													
456.9'	463.6'		C0323	88.5	90.0	1.5	0.19	0.2							
			C8413	90.0	91.5	1.5	0.48	0.3							
141.35	160.00	LAPILLI AND CRYSTAL TUFF													
463.6'	524.8'		C8414	91.5	93.0	1.5	0.27	Nil							
			C8415	93.0	94.5	1.5	0.27	Nil							
			C8416	94.5	96.0	1.5	1.75	0.4							
			C8417	96.0	97.5	1.5	1.45	0.7							
			C8418	97.5	99.9	2.4	1.38	0.4							
160.00	173.85	INTERMEDIATE LAVA (DACITE?)													
524.8'	570.2'		C8419	99.9	102.0	2.1	1.88	1.1							
			C8420	102.0	103.5	1.5	0.91	1.2							
			C8421	103.5	105.0	1.5	1.20	0.2							
173.85	192.05	MAFIC LAVA													
570.2'	629.9'		C8422	105.0	106.5	1.5	2.81	1.0							
			C8423	106.5	108.0	1.5	1.00	0.6							
			C8424	108.0	109.5	1.5	1.88	1.2							
192.05	196.60	INTERMEDIATE LAVA													
629.9'	644.8'		C8425	109.5	111.0	1.5	2.99	1.6							
			C8426	111.0	112.5	1.5	1.14	1.2							
			C8427	112.5	114.5	2.0	0.21	0.3							
196.60	200.10	ANDESITE LAVA													
644.8'	656.3'		C0324	114.5	117.0	2.5	0.38	0.3							
			C0325	117.0	119.4	2.4	0.54	0.2							
			C0326	119.4	123.0	3.6	0.03	0.7							
200.10	215.80	INTERMEDIATE CRYSTAL TUFF													
656.3'	707.8'		C0327	123.0	125.9	2.9	0.04	0.4							
			C8428	125.9	127.6	1.7	0.70	1.0							
			C8429	127.6	129.0	1.4	0.10	0.2							
	215.80	END OF HOLE													
	707.8'		C8430	129.0	130.5	1.5	0.06	0.2							
			C8431	130.5	132.0	1.5	0.07	0.2							
			C8432	132.0	133.5	1.5	0.10	0.2							





**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-37  
Sheet No. 4

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
57.90	69.70	LAPILLI TUFF										
189.9'	228.6'	Intermediate matrix with felsic fragments up to 6-7mm. Weak to moderately carbonated; medium green, massive; negligible pyrite.										
69.70	76.40	AGGLOMERATE	C0312	69.7	72.0	2.3	0.14	0.5				
228.6'	250.6'	Mainly mafic fragments up to 2½" in intermediate matrix. Foliated @ 55° parallel elongation of fragments; moderately carbonated, mainly in mafic fragments. 1-2% disseminated pyrite.	C0313	72.0	75.0	3.0	0.27	NIL				
			C0314	75.0	76.40	1.4	0.04	NIL				
76.40	92.35	LAPILLI TUFF	C0315	76.4	78.8	2.4	0.01	NIL				
250.6'	302.9'	Mottled green and grey, speckled texture. Intermediate to felsic matrix with numerous mafic fragments mostly less than 6-7mm, except as noted. Fragments are well carbonated, massive, except in local agglomeratic sections where foliation has developed at 55° - 60° (Lapilli tuff is more competent to resist shearing). 3% fine disseminated pyrite.	C0316	78.8	80.0	1.2	0.41	1.4				
			C0317	80.0	81.0	1.0	0.48	1.4				
			C0318	81.0	82.5	1.5	0.34	0.5				
			C0319	82.5	84.0	1.5	0.38	0.7				
			C0320	84.0	85.5	0.5	2.06	0.8				
			C0321	85.5	87.0	1.5	0.25	0.6				
			C0322	87.0	88.5	1.5	0.86	0.8				
		78.80 - 81.00: Agglomerate. Mafic fragments, angular, up to 2".	C0323	88.5	90.0	1.5	0.19	0.2				
			C8413	90.0	91.5	0.5	0.48	0.3				
92.35	99.90	CRYSTAL TUFF	C8414	91.5	93.0	1.5	0.27	NIL				
302.9'	327.7'	Massive. Fine-grained, medium-green, moderately carbonated, negligible pyrite.	C8415	93.0	94.5	1.5	0.27	NIL				
			C8416	94.5	96.0	1.5	1.75	0.4				
			C8417	96.0	97.5	1.5	1.45	0.7				
			C8418	97.9	99.9	2.4	1.38	0.4				
99.90	114.40	LAPILLI TUFF	C8419	99.9	102.0	2.1	1.88	1.1				
327.7'	375.2'	Mafic and felsic fragments up to 1½", mainly less than ½" in felsic matrix; massive, moderately carbonated. Occasional short sections of crystal tuff. Mottled green and grey speckled texture.	C8420	102.0	103.5	1.5	0.91	1.2				
			C8421	103.5	105.0	1.5	1.20	0.2				
			C8422	105.0	106.5	1.5	2.81	1.0				
			C8423	106.5	108.0	1.5	1.00	0.6				
			C8424	108.0	109.5	1.5	1.88	1.2				
		99.80 - 102.50: 3-4% disseminated pyrite.	C8425	109.5	111.0	1.5	2.99	1.6				
		102.50 - 111.00: 6-8% pyrite in small clots and seams.	C8426	111.0	112.5	1.5	1.14	1.2				
		109.0 - 110.5: 10-12% pyrite in coarse clots and seams.	C8427	112.5	114.5	2.0	0.21	0.3				







A MAX MINERALS EXPLORATION

Coord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050 01-37  
 Date: Feb 28/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.				Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au				Kept
Units	Meters	Meters	Meters		PPM	PPM					
C0293		7.8	9.0	1.2	1.43	0.6					
C0294		9.0	10.5	1.5	0.23	0.7					
C0295		10.5	12.0	1.5	0.51	0.7					
C0296		12.0	13.5	1.5	0.08	0.2					
C0297		13.5	15.0	1.5	0.07	0.2					
C0298		15.0	17.75	2.75	2.05	2.4					
* C8411		17.75	19.60	1.85	* 2.78 2.74	4.6					
C0299		19.6	21.00	1.4	0.41	2.6					
C0300		21.00	22.5	1.5	0.85	2.4					
C0301		22.5	24.0	1.5	{ 3.74 3.43 2.40	3.0					
C0302		24.0	25.5	1.5	0.55	1.9					
C0303		25.5	27.0	1.5	0.34	0.9					
C0304		27.0	28.5	1.5	0.28	0.4					
C0305		28.5	30.0	1.5	0.14	0.2					
C0306		30.0	33.0	3.00	0.07	0.4					
C0307		33.0	34.5	1.5	0.11	0.5					
C0308		34.5	36.0	1.5	0.14	0.6					
C0309		36.0	37.1	1.1	0.06	0.3					
C8412		37.1	37.45	0.35	0.14	0.5					
C0310		37.45	39.00	1.55	0.02	NIL					
C0311		39.00	42.0	3.00	0.02	NIL					
C0312		69.70	72.0	2.30	0.14	0.5					
C0313		72.0	75.0	3.00	0.27	NIL					
C0314		75.0	76.4	1.40	0.04	NIL					

\* C8411 3.77

AMAX MINERALS EXPLORATION

Coord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050-01-37  
 Date: Feb 28/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.			Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au			Kept
Units		Meters	Meters	Meters	PPM	PPM				
C0315		76.40	78.80	2.40	0.01	Nil				
C0316		78.80	80.60	1.20	0.41	1.4				
C0317		80.00	81.00	1.00	0.48	1.4				
C0318		81.00	82.5	1.50	0.34	0.5				
C0319		82.5	84.0	1.50	0.38	0.7				
C0320		84.0	85.5	1.50	1.70 2.06	0.8				
C0321		85.5	87.0	1.50	0.25	0.6				
C0322		87.0	88.5	1.50	0.86	0.8				
C0323		88.5	90.0	1.50	0.19	0.2				
C8413		90.0	91.5	1.50	0.48	0.3				
C8414		91.5	93.0	1.50	0.27	Nil				
C8415		93.0	94.5	1.50	0.27	Nil				
C8416		94.5	96.0	1.50	1.75 1.37	0.4				
C8417		96.0	97.5	1.50	1.45	0.7				
C8418		97.5	99.9	2.40	1.38	0.4				
C8419		99.9	102.0	2.10	1.88	1.1				
C8420		102.0	103.5	1.50	0.91	1.2				
C8421		103.5	105.0	1.50	1.20	0.2				
C8422		105.0	106.5	1.50	2.81 2.40	1.0				
C8423		106.5	108.0	1.50	1.00	0.6				
C8424		108.0	109.5	1.50	1.88	1.2				
* C8425		109.5	111.0	1.50	*2.99 2.74	1.6				
C8426		111.0	112.5	1.50	1.14	1.2				
C8427		112.5	114.5	2.00	0.21	0.3				
* C8425					2.40					



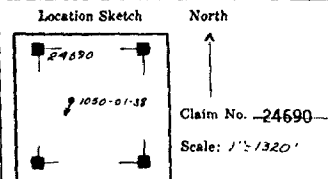


**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-38

Collar Elevation: 4,982'

Hole No. 1050-01-38 Sheet 1	Length 93.0 metres	Commenced February 16, 1981	Dip: Collar -45°
Property Mirado	Bearing S35°W	Completed February 17, 1981	Etch Test 1 60m -51½° -42½°
Township Catharine	Dip -45°	Drilling Co. St. Lambert	2 93m -49° -40°
Location L - D+54E at 5+56N (Section G)	Objective To test 227 XC and upper part of raise below 250' level.	Core Size BQ	
Logged By J. Sugden		Casing Left/Lost in Hole	
Core Location Timmins			



Remarks Drill hole 38 was abandoned at 93 metres when it entered mine workings on 250 level.  
Core Specimens: 43.6, 61.1, 71.2, 86.4.

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
0	6.50	CASING													
0	21.3'		C15090	6.5	9.0	2.5	0.05								
			C15091	9.0	12.0	3.0	0.01								
6.50	39.10	LAPILLI TUFF	C15092	12.0	15.0	3.0	0.11								
21.3'	128.2'		C15093	15.0	18.0	3.0	0.04								
			C15094	18.0	21.0	3.0	0.03								
39.10	60.15	ANDESITE LAVA	C15095	21.0	24.0	3.0	0.51								
128.2'	197.3'		C15096	24.0	27.0	3.0	0.10								
			C15097	27.0	30.0	3.0	NIL								
60.15	62.40	LAPILLI TUFF	C15098	30.0	33.0	3.0	0.06								
197.3'	204.7'		C15099	33.0	36.0	3.0	0.03								
			C15100	36.0	39.0	3.0	NIL								
62.40	68.40	ANDESITE LAVA	C15101	39.0	42.0	3.0	0.04								
204.7'	224.4'		C15102	42.0	45.0	3.0	0.01								
			C15103	45.0	48.0	3.0	0.10								
68.40	76.00	HORNBLLENDE SYENITE DYKE	C15104	48.0	51.0	3.0	0.06								
224.4'	249.3'		C15105	51.0	54.0	3.0	0.01								
			C15106	54.0	57.0	3.0	NIL								
76.00	93.00	LAPILLI TUFF	C15107	57.0	60.0	3.0	NIL								
249.3'	305.0'		C15108	60.0	63.0	3.0	0.01								
			C15109	63.0	66.0	3.0	0.01								
	93.00	END OF HOLE	C15110	66.0	69.0	3.0	0.41								
	305.0'		C15111	69.0	72.0	3.0	0.03								
			C15112	72.0	76.0	4.0	0.01								
			C1379	76.0	78.7	2.7	0.08	NIL							
			C8433	78.7	80.9	2.2	0.47	1.1							
			C8434	80.9	82.8	1.9	0.12	0.2							
			C8435	82.8	83.55	0.75	0.67	1.3							
			C8436	83.55	83.7	0.15	4.12	14.6							













**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-39  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
0	2.00	CASING													
0	6.6'														
2.00	15.10	LAPILLI TUFF / AGGLOMERATE	8443	2.0	3.5	1.5	0.14	NIL							
6.6'	49.5'		8444	3.5	5.0	1.5	0.11	NIL							
		Medium greenish-grey, massive to foliated @ 50°. Numerous fragments	8445	5.0	6.5	1.5	0.14	NIL							
		mainly mafic up to 2" or more, scattered throughout typical lapilli	8446	6.5	8.0	1.5	0.07	NIL							
		tuff with intermediate to felsic matrix. Weakly to moderately carbonat-	8447	8.0	9.5	1.5	0.16	0.2							
		ed. 3-4% disseminated pyrite and in occasional thin seams.	8448	9.5	11.0	1.5	0.13	0.2							
			8449	11.0	112.5	1.5	0.28	NIL							
15.10	18.95	MAFIC CRYSTAL TUFF	8450	12.5	14.0	1.5	0.30	0.6							
49.5'	62.0'		8451	14.0	15.1	1.1	0.38	0.4							
		Dark green fragments less than 4mm. Weakly to moderately carbonated;	8452	15.1	17.0	1.9	0.11	NIL							
		negligible pyrite.	8453	17.0	18.95	1.95	0.04	NIL							
18.95	29.50	LAPILLI TUFF / AGGLOMERATE	8454	18.95	21.0	2.05	1.66	0.4							
62.0'	96.8'		8455	21.0	22.5	1.5	0.92	0.2							
		As above. Foliated @ 55°. Moderately carbonated; 3-4% pyrite overall	8456	22.5	24.0	1.5	0.10	NIL							
		in seams, small clots and disseminated. Pyrite is always more abundant	8457	24.0	25.5	1.5	0.03	NIL							
		where fragments are larger.	8458	25.5	27.0	1.5	0.05	NIL							
		29.3: ½" chalcopyrite stringer @ 55° with minor pyrite.	8459	27.0	28.5	1.5	0.10	0.2							
			8460	28.5	29.5	1.0	2.05	0.9							
29.50	59.80	LAPILLI TUFF	8461	29.5	30.0	0.5	4.56	0.7							
96.8'	196.1'		8462	30.0	31.5	1.5	0.06	NIL							
		As above but more massive and lacking in large fragments. Medium-grey-	8463	31.5	33.0	1.5	0.14	NIL							
		green, moderately carbonated fragments up to 1½". 3-4% pyrite dissemin-	8464	33.0	34.5	1.5	0.04	0.5							
		ated and in occasional irregular stringers and seams.	8465	34.5	36.0	1.5	0.07	NIL							
		36.00 - 50.50: Lapilli tuff as above but fewer fragments greater	8466	36.0	37.5	1.5	0.09	NIL							
		than 10-12mm.; mafic fragments in intermediate	0328	37.5	39.0	1.5	0.02	NIL							
		matrix. Massive dark greyish green, moderately	0329	39.0	40.5	1.5	0.01	NIL							
		carbonated.	0330	40.5	42.0	1.5	0.03	NIL							
		36.0 - 37.5: 3% disseminated pyrite.	0331	42.0	45.0	3.0	0.03	NIL							
		37.5 - 50.5: negligible pyrite.	0332	45.0	48.0	3.0	0.01	NIL							
		50.50 - 59.80: Lapilli tuff; mottled green and grey with mafic	0333	48.0	49.5	1.5	NIL	NIL							
		angular fragments up to 30mm in felsic matrix;	0334	49.5	51.0	1.5	0.05	NIL							
		massive, weakly to moderately carbonated; 1-2% py	0335	51.0	52.5	1.5	0.14	0.2							
		55.5 - 56.3: Pink syenite porphyry dyke.	0336	52.5	54.0	1.5	0.03	NIL							
		Lower contact @ 80°. Barren quartz-carbonate-	0337	54.0	55.5	1.5	0.07	NIL							
		chloritic stringer @ 25° cuts porphyry.	0338	55.5	56.3	0.8	NIL	NIL							
			0339	56.3	58.5	2.2	0.03	NIL							



**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-39  
Sheet No. 3

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
59.80	90.35	INTERMEDIATE LAVA	C0340	58.5	60.0	1.5	0.05	NIL				
196.1'	296.3'		C0341	60.0	63.0	3.0	0.26	NIL				
		Medium green, massive. Upper contact @ 45°. Very weakly carbonated.	C0342	63.0	66.0	3.0	0.03	NIL				
		Fine-grained, numerous carbonate-filled amygdules to 67.0m. Negligible pyrite.	C0343	66.0	67.5	1.5	0.04	NIL				
			C0344	67.5	69.65	2.15	0.01	NIL				
			C8467	69.65	69.9	0.25	0.04	NIL				
		69.00 - 69.45: chert band with angular mafic fragments up to 1"	C0345	69.9	72.0	2.1	0.05	0.2				
		69.65 - 69.90: Quartz stringer with cubic pyrite nearly parallel core.	C0346	72.0	75.0	3.0	0.01	NIL				
			C0347	75.0	76.5	1.5	NIL	NIL				
		87.00 - 89.20: Lapilli tuff. Intermediate mafic fragments up to 1" in felsic matrix. Negligible pyrite.	C0348	76.5	78.0	1.5	0.34	0.5				
			C0349	78.0	79.5	1.5	0.04	NIL				
90.35	93.70	LAPILLI TUFF / AGGLOMERATE										
296.3'	307.3'											
		Mafic fragments up to 2" in felsic matrix. Foliated @ 60-70°. Weak carbonate, negligible pyrite.										
93.70	102.50	INTERMEDIATE CRYSTAL TUFF										
307.3'	403.4'											
		Intermediate to mafic. Fine-grained, massive; weakly carbonated, negligible pyrite, more or less epidote alteration.										
		95.30 - 97.90: Scattered angular felsic fragments up to 1½"										
102.50	104.80	LAPILLI TUFF										
		Mafic fragments in felsic matrix. Negligible pyrite.										
104.80	123.00	CRYSTAL TUFF	C0350	104.8	107.5	2.7	0.11	0.2				
			C0351	107.5	110.5	3.0	0.44	0.2				
		Medium-grey, flecked with tiny mafic fragments (2-3mm). Massive, close packed felsic fragments (1mm). 1-2% pyrite, disseminated.	C0352	110.5	113.5	3.0	0.21	NIL				
			C0353	113.5	116.5	3.0	2.33	0.3				
		118.3 - 118.5: 20% pyrite clots and seams.	C0354	116.5	118.3	1.8	1.81	0.3				
			C8468	118.3	118.5	0.2	3.77	0.6				
	123.00	END OF HOLE	C0355	118.5	120.0	1.5	0.15	0.2				
			C0356	120.0	123.0	3.0	0.02	NIL				



AMAX MINERALS EXPLORATION

-1-

Coord:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1056  
Hole No: 1050-01-39  
Date: Feb 23/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.		Rejects Kept
Sample No.	Sample No.	From	To	Width	Au	Ag	Au		
Units		Meters	Meters	Meters	PPM	PPM			
C8443		2.0	3.5	1.50	0.14	NIL			
C8444		3.5	5.0	1.50	0.11	NIL			
C8445		5.0	6.5	1.50	0.14	NIL			
C8446		6.5	8.00	1.50	0.07	NIL			
C8447		8.0	9.5	1.50	0.16	0.2			
C8448		9.5	11.0	1.50	0.13	0.2			
C8449		11.0	12.5	1.50	0.28	NIL			
C8450		12.5	14.0	1.50	0.30	0.6			
C8451		14.0	15.1	1.10	0.38	0.4			
C8452		15.1	17.0	1.90	0.11	NIL			
C8453		17.0	18.95	1.95	0.04	NIL			
C8454		18.95	21.00	2.05	1.66	0.4			
C8455		21.00	22.50	1.50	0.92	0.2			
C8456		22.5	24.0	1.50	0.10	NIL			
C8457		24.0	25.5	1.50	0.03	NIL			
C8458		25.5	27.0	1.50	0.05	NIL			
C8459		27.0	28.5	1.50	0.10	0.2			
C8460		28.5	29.5	1.00	2.05	0.9			
* C8461		29.5	30.0	0.50	4.56 4.12	0.7			
C8462		30.0	31.5	1.50	0.06	NIL			
C8463		31.5	33.0	1.50	0.14	NIL			
C8464		33.0	34.5	1.50	0.40	0.5			
C8465		34.5	36.0	1.50	0.07	NIL			
C8466		36.0	37.5	1.50	0.09	NIL			

\* C8461

1.71  
1.71

AMAX MINERALS EXPLORATION

Coord:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 10150  
Hole No: 1050 CI-39  
Date: Feb. 23/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.				Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au				Kept
Units		Meters	Meters	Meters	PPM	PPM					
C8593		3.00	9.00	6.00	0.38						
C8594		9.00	15.00	6.00	0.45						
C8595		15.0	21.0	6.00	1.14						
C8596		21.0	27.0	6.00	1.02						
C8597		27.0	33.0	6.00	2.32 2.74						
C8598		33.0	39.0	6.00	2.70						
C0328		37.5	39.0	1.50	0.02	Nil					
C0329		39.0	40.5	1.50	0.01	Nil					
C0330		40.5	42.0	1.50	0.03	Nil					
C0331		42.0	45.0	3.00	0.03	Nil					
C0332		45.0	48.0	3.00	0.01	Nil					
C0333		48.0	49.5	1.50	Nil	Nil					
C0334		49.5	51.0	1.50	0.05	Nil					
C0335		51.0	52.5	1.50	0.14	0.2					
C0336		52.5	54.0	1.50	0.03	Nil					
C0337		54.0	55.5	1.50	0.07	Nil					
C0338		55.5	56.3	0.80	Nil	Nil					
C0339		56.3	58.5	2.20	0.03	Nil					
C0340		58.5	60.0	1.50	0.05	Nil					
C0341		60.0	63.0	3.00	0.26	Nil					
C0342		63.0	66.0	3.00	0.03	Nil					
C0343		66.0	67.5	1.50	0.04	Nil					
C0344		67.5	69.65	2.15	0.01	Nil					
C8467		69.65	69.90	0.25	0.04	Nil					

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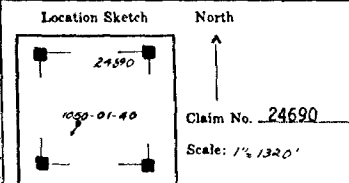


**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Collar Elevation: 4,979'

Hole No. 1050-01-40

Hole No. 1050-01-40 Sheet 1	Length 144.00 metres	Commenced February 18, 1981	Dip: Collar -45°
Property Mirado (1050-01)	Bearing S-35°W	Completed February 19, 1981	Etch Test 1 60m 51.5° 43°
Township Catharine	Dip -45°	Drilling Co. St-Lambert	2 120m 49° 40°
Location L-1+64°E at 4+65N. (Section 1)	Objective To test mineralization in the south zone.	Core Size 80	Casing Left/Lost in Hole None
Logged By G. Tremblay			
Core Location Timmins			



Remarks Samples taken: 16.8, 41.0, 52.3, 60.9, 70.5, 88.4, 107.0, 115.5, 118.2, 123.1.

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
0	7.20	CASING	C8469	7.20	9.0	1.8	0.06	NIL				
0	23.6'		C8470	9.0	10.5	1.5	0.04	NIL				
			C8471	10.5	12.0	1.5	0.03	NIL				
7.20	55.00	LAPILLI TUFF	C8472	12.0	13.5	1.5	0.01	NIL				
23.6'	180.4'		C8473	13.5	15.0	1.5	NIL	NIL				
			C8474	15.0	16.5	1.5	0.20	0.3				
			C8475	16.5	18.0	1.5	0.17	0.3				
			C8476	18.0	19.5	1.5	0.71	1.6				
55.00	62.65	AGGLOMERATE	C8477	19.5	21.0	1.5	0.11	0.4				
180.4'	205.5'		C8478	21.0	22.5	1.5	0.09	NIL				
			C8479	22.5	24.0	1.5	0.16	NIL				
62.65	71.25	TUFF	C8480	24.0	25.5	1.5	0.10	NIL				
205.5'	233.8'		C8481	25.5	27.0	1.5	0.04	NIL				
71.25	84.15	AGGLOMERATE	C8482	27.0	28.5	1.5	0.03	NIL				
233.8'	276.1'		C8483	28.5	30.0	1.5	0.03	NIL				
			C8484	30.0	31.5	1.5	0.14	0.2				
84.15	84.85	SYENITE	C8485	31.5	33.0	1.5	0.15	NIL				
276.1'	278.4'		C8486	33.0	34.5	1.5	0.03	NIL				
84.85	88.05	AGGLOMERATE	C8487	34.5	36.0	1.5	0.10	NIL				
278.4'	288.9'		C8488	36.0	37.5	1.5	0.08	NIL				
			C8489	37.5	39.0	1.5	0.14	NIL				
88.05	90.50	TUFF AND LAPILLI TUFF	C8490	39.0	40.5	1.5	0.06	NIL				
288.9'	297.0'		C8491	40.5	42.0	1.5	0.03	NIL				
			C8492	42.0	43.5	1.5	0.10	NIL				
90.50	102.00	AGGLOMERATE	C8493	43.5	45.0	1.5	0.23	0.2				
297.0	334.6'		C8494	45.0	46.5	1.5	0.16	NIL				
			C8495	46.5	48.3	1.8	0.25	0.4				

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-40  
Sheet No. 2

Footage meters/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
102.00	111.85	LAPILLI TUFF	C8496	48.3	49.5	1.2	0.19	0.2				
334.6'	367.0'		C8497	49.5	50.8	1.3	1.85	0.9				
			C8498	50.8	52.5	1.7	0.96	0.8				
111.85	117.35	TUFF	C8499	52.5	54.0	1.5	0.25	0.3				
367.0'	385.0'		C8500	54.0	55.5	1.5	0.49	0.6				
			C8501	55.5	57.0	1.5	0.42	0.4				
117.35	121.50	LAPILLI TUFF	C8502	57.0	58.5	1.5	0.08	NIL				
385.0'	398.6'		C8503	58.5	60.0	1.5	0.23	0.2				
			C8504	60.0	61.5	1.5	0.12	0.2				
121.50	144.00	TUFF	C8505	61.5	62.65	1.15	0.34	0.2				
398.6'	472.4'		C8506	62.65	64.5	1.85	0.26	0.3				
			C8507	64.5	66.0	1.5	0.08	0.2				
	144.00	END OF HOLE	C8508	66.0	67.5	1.5	0.85	0.2				
	472.4'		C8509	67.5	69.0	1.5	0.23	0.2				
			C8510	69.0	71.25	2.25	0.41	0.2				
			C8511	71.25	72.0	0.75	0.68	1.2				
			C8512	72.0	73.5	1.5	0.35	0.4				
			C8513	73.5	75.0	1.5	0.37	0.3				
			C8514	75.0	76.5	1.5	0.78	0.9				
			C8515	76.5	78.0	1.5	0.45	0.8				
			C8516	78.0	79.5	1.5	0.65	0.7				
			C8517	79.5	81.0	1.5	0.64	0.9				
			C8518	81.0	82.5	1.5	0.66	1.1				
			C8519	82.5	84.15	1.65	0.64	0.6				
			C8520	84.15	84.85	0.7	0.04	NIL				
			C8521	84.85	85.80	0.95	0.27	0.2				
			C8522	85.80	87.0	1.20	1.10	0.6				
			C8523	87.0	88.05	1.05	0.74	0.4				
			C8524	88.05	89.3	1.25	0.10	NIL				
			C8525	89.3	90.5	1.2	0.08	NIL				
			C8526	90.5	91.5	1.0	0.13	NIL				
			C8527	91.5	93.0	1.5	3.26	0.8				
			C8528	93.0	94.5	1.5	0.12	NIL				
			C8529	94.5	96.0	1.5	0.06	NIL				
			C8530	96.0	97.5	1.5	0.10	0.2				
			C8531	97.5	99.0	1.5	0.28	0.2				
			C8532	99.0	100.5	1.5	0.2	NIL				
			C8533	100.5	102.0	1.5	0.16	0.2				





**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-40  
Sheet No. 3

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
0	7.20	CASING											
0	23.6'												
7.20	55.00	LAPILLI TUFF	C8469	7.20	9.0	1.8	0.06	NIL					
23.6'	180.4'		C8470	9.0	10.5	1.5	0.04	NIL					
		The lapilli tuff is composed of mostly mafic fragments in an intermediate to felsic matrix. The color of the fragments is dark green, and the matrix is light to medium grey. The size of the fragments ranges from 1/16" to 1 1/2". The average size is 1/4" to 1/2". Numerous quartz-calcite vesicles are present in this section. Their size ranges from 1/16" to 1/4". The average size is 1/8". Numerous thin quartz-calcite veins are randomly oriented. Strong carbonatization.  Mineralization: Pyrite content is 2-5% except as noted. The pyrite occurs in thin fractures, in clots or disseminated. 48.30 - 50.80: 5-15% pyrite with minor chalcopyrite. From 38.30 to 55.00, fragments are larger and the rock is more altered.	C8471	10.5	12.0	1.5	0.03	NIL					
			C8472	12.0	13.5	1.5	0.01	NIL					
			C8473	13.5	15.0	1.5	NIL	NIL					
			C8474	15.0	16.5	1.5	0.20	0.3					
			C8475	16.5	18.0	1.5	0.17	0.3					
			C8476	18.0	19.5	1.5	0.71	1.6					
			C8477	19.5	21.0	1.5	0.11	0.4					
			C8478	21.0	22.5	1.5	0.09	NIL					
			C8479	22.5	24.0	1.5	0.16	NIL					
			C8480	24.0	25.5	1.5	0.10	NIL					
			C8481	25.5	27.0	1.5	0.04	NIL					
			C8482	27.0	28.5	1.5	0.03	NIL					
			C8483	28.5	30.0	1.5	0.03	NIL					
		C8484	30.0	31.5	1.5	0.14	0.2						
		C8485	31.5	33.0	1.5	0.15	NIL						
		C8486	33.0	34.5	1.5	0.03	NIL						
		C8487	34.5	36.0	1.5	0.10	NIL						
55.00	62.65	AGGLOMERATE	C8488	36.0	37.5	1.5	0.08	NIL					
180.4'	205.5'		C8489	37.5	39.0	1.5	0.14	NIL					
		Same as 38.3 to 55.0 but with larger fragments. The agglomerate is composed of mafic fragments in a felsic matrix. The fragments are dark green and their size ranges from 1/4" to 4". The average size of the fragments is agglomeratic. As 38.3 to 55.0, the rock is altered. Medium carbonatization. Mineralization: 3-8% pyrite.	C8490	39.0	40.5	1.5	0.06	NIL					
			C8491	40.5	42.0	1.5	0.03	NIL					
			C8492	42.0	43.5	1.5	0.10	NIL					
			C8493	43.5	45.0	1.5	0.23	0.2					
			C8494	45.0	46.5	1.5	0.16	NIL					
			C8495	46.5	48.3	1.8	0.25	0.4					
			C8496	48.3	49.5	1.2	0.19	0.2					
		TUFF	C8497	49.5	50.8	1.3	1.85	0.9					
62.65	71.25		C8498	50.8	52.5	1.7	0.96	0.8					
205.5'	233.8'		C8499	52.5	54.0	1.5	0.25	0.3					
			C8500	54.0	55.5	1.5	0.49	0.6					
			C8501	55.5	57.0	1.5	0.42	0.4					
			C8502	57.0	58.5	1.5	0.08	NIL					
			C8503	58.5	60.0	1.5	0.23	0.2					
			C8504	60.0	61.5	1.5	0.12	0.2					

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-40  
Sheet No. 4

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
71.25	84.15	AGGLOMERATE	C8505	61.5	62.65	1.15	0.34	0.2				
233.8'	276.1'		C8506	62.65	64.5	1.85	0.26	0.3				
		Same as 55.00 - 62.65.	C8507	64.5	66.0	1.5	0.08	0.2				
		The agglomerate is composed of mafic fragments in a felsic matrix. The color of the fragments is dark green (chloritic) and the matrix is light grey. The size of the fragments ranges from 1/4" to 5".	C8508	66.0	67.5	1.5	0.85	0.2				
		The average size of the fragments is agglomeratic.	C8509	67.5	69.0	1.5	0.23	0.2				
		Pyrite content: 3-10%.	C8510	69.0	71.25	2.25	0.41	0.2				
			C8511	71.25	72.0	0.75	0.68	1.2				
			C8512	72.0	73.5	1.5	0.35	0.4				
			C8513	73.5	75.0	1.5	0.37	0.3				
84.15	84.85	SYENITE DYKE	C8514	75.0	76.5	1.5	0.78	0.9				
276.1'	278.4'		C8515	76.5	78.0	1.5	0.45	0.8				
			C8516	78.0	79.5	1.5	0.65	0.7				
84.85	88.05	AGGLOMERATE	C8517	79.5	81.0	1.5	0.64	0.9				
278.4'	288.9'		C8518	81.0	82.5	1.5	0.66	1.1				
		Same as 71.25 - 84.15.	C8519	82.5	84.15	1.65	0.64	0.6				
		Pyrite content: 2-8%.	C8520	84.15	84.85	0.7	0.04	NIL				
			C8521	84.85	85.80	0.95	0.27	0.2				
88.05	90.50	TUFF AND LAPILLI TUFF (MAFIC)	C8522	85.80	87.0	1.20	1.10	0.6				
288.9'	297.0'		C8523	87.0	88.05	1.05	0.74	0.4				
		Medium to dark green. Contains numerous small mafic fragments. The size of the fragments is smaller than 1/4". Contains some fragments of the stratigraphically below agglomerate.	C8524	88.05	89.3	1.25	0.10	NIL				
		Pyrite content: 1% disseminated pyrite.	C8525	89.3	90.5	1.2	0.08	NIL				
90.50	102.00	AGGLOMERATE	C8526	90.5	91.5	1.0	0.13	NIL				
297.0'	334.6'		C8527	91.5	93.0	1.5	3.26	0.8				
		Same as 84.85 - 88.05.	C8528	93.0	94.5	1.5	0.12	NIL				
		Contains some lapilli tuff.	C8529	94.5	96.0	1.5	0.06	NIL				
		Pyrite content: 2-8%.	C8530	96.0	97.5	1.5	0.10	0.2				
			C8531	97.5	99.0	1.5	0.28	0.2				
102.00	111.85	LAPILLI TUFF	C8532	99.0	100.5	1.5	0.2	NIL				
334.6'	367.0'		C8533	100.5	102.0	1.5	0.16	0.2				
		Same composition as the above agglomerate (90.50 - 102.0), but with smaller fragments. Contains a few fragments of agglomeratic size.	C8534	102.0	103.5	1.5	0.20	NIL				
		Pyrite content: 3-8%.	C8535	103.5	105.0	1.5	0.25	NIL				
			C8536	105.0	106.5	1.5	0.08	NIL				
			C8537	106.5	108.0	1.5	0.23	NIL				
			C8538	108.0	109.5	1.5	0.40	NIL				
			C8539	109.5	111.0	1.5	0.20	NIL				
			C8540	111.0	111.85	0.85	0.27	NIL				





AMAX MINERALS EXPLORATION

Coord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050 01-40  
 Date: Feb 24/81.

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.		Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au		Kept
Units		Meters	Meters	Meters	PPM	PPM			
C8469		7.20	9.00	1.80	0.06	NIL			
C8470		9.00	10.5	1.50	0.04	NIL			
C8471		10.5	12.0	1.50	0.03	NIL			
C8472		12.0	13.5	1.50	0.01	NIL			
C8473		13.5	15.0	1.50	NIL	NIL			
C8474		15.0	16.5	1.50	0.20	0.3			
C8475		16.50	18.00	1.50	0.17	0.3			
C8476		18.0	19.5	1.50	0.71 0.69	1.6			
C8477		19.5	21.0	1.50	0.11	0.4			
C8478		21.0	22.5	1.50	0.09	NIL			
C8479		22.5	24.0	1.50	0.16	NIL			
C8480		24.0	25.5	1.50	0.10	NIL			
C8481		25.5	27.0	1.50	0.04	NIL			
C8482		27.0	28.5	1.50	0.03	NIL			
C8483		28.3	30.0	1.70	0.03	NIL			
C8484		30.0	31.5	1.50	0.14	0.2			
C8485		31.5	33.0	1.50	0.15	NIL			
C8486		33.0	34.5	1.50	0.03	NIL			
C8487		34.5	36.0	1.50	0.10	NIL			
C8488		36.0	37.5	1.50	0.08	NIL			
C8489		37.5	39.0	1.50	0.14	NIL			
C8490		39.0	40.5	1.50	0.06	NIL			
C8491		40.5	42.0	1.50	0.03	NIL			
C8492		42.0	43.5	1.50	0.10	NIL			

1050 01-24  
 1050 01-24

AMAX MINERALS EXPLORATION

Comard:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
Hole No: 1050 11-40  
Date: Feb 24/81

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SWASTIKA		Lab.				Rejects Kept
		From	To		Au	Ag	Au				
		Meters	Meters		Meters	PPM	PPM				
C8493		43.5	45.0	1.50	0.23	0.2					
C8494		45.0	46.5	1.50	0.16	Nil					
C8495		46.5	48.3	1.80	0.25	0.4					
C8496		48.3	49.5	1.20	0.19	0.2					
C8497		49.5	50.8	1.30	1.85 1.72	0.9					
C8498		50.8	52.5	1.70	0.96	0.8					
C8499		52.5	54.0	1.50	0.25	0.3					
C8500		54.0	55.5	1.50	0.49	0.6					
C8501		55.5	57.0	1.50	0.42	0.4					
C8502		57.0	58.5	1.50	0.08	Nil					
C8503		58.5	60.0	1.50	0.23	0.2					
C8504		60.0	61.5	1.50	0.12	0.2					
C8505		61.5	62.65	1.15	0.34	0.2					
C8506		62.65	64.5	1.85	0.26	0.3					
C8507		64.5	66.0	1.50	0.08	0.2					
C8508		66.0	67.5	1.50	0.85 0.69	0.2					
C8509		67.5	69.0	1.50	0.23	0.2					
C8510		69.0	71.25	2.25	0.41	0.2					
C8511		71.25	72.00	0.75	0.68	1.2					
C8512		72.00	73.5	1.50	0.35	0.4					
C8513		73.5	75.0	1.50	0.37	0.3					
C8514		75.0	76.5	1.50	0.78	0.9					
C8515		76.5	78.0	1.50	0.45	0.8					
C8516		78.0	79.5	1.50	0.65	0.7					

AMAX MINERALS EXPLORATION

-3-

Coord:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
Hole No: 1050-01-40  
Date: Jul 24/81.

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.			Rejects Kept
Sample No.	Sample No.	From	To	Width	Au	Ag	Au			
Units		METRES	METRES	METRES	PPM	PPM				
C8517		79.5	81.0	1.50	0.64	0.9				
C8518		81.0	82.5	1.50	0.66	1.1				
C8519		82.5	84.15	1.65	0.64	0.6				
C8520		84.15	84.85	0.70	0.04	NIL				
C8521		84.85	85.80	0.95	0.27	0.2				
C8522		85.8	87.0	1.20	1.10	0.6				
C8523		87.0	88.05	1.05	0.74	0.4				
C8524		88.05	89.3	1.25	0.10	NIL				
C8525		89.3	90.5	1.20	0.08	NIL				
C8526		90.5	91.5	1.00	0.13	NIL				
* C8527		91.5	93.0	1.50	3.26 2.40	0.8				
C8528		93.0	94.5	1.50	0.12	NIL				
C8529		94.5	96.0	1.50	0.06	NIL				
C8530		96.0	97.5	1.50	0.10	0.2				
C8531		97.5	99.0	1.50	0.28	0.2				
C8532		99.0	100.5	1.50	0.02	NIL				
C8533		100.5	102.0	1.50	0.16	0.2				
C8534		102.0	103.5	1.50	0.20	NIL				
C8535		103.5	105.0	1.50	0.25	NIL				
C8536		105.0	106.5	1.50	0.08	NIL				
C8537		106.5	108.0	1.50	0.23	NIL				
C8538		108.0	109.5	1.50	0.40	NIL				
C8539		109.5	111.0	1.50	0.20	NIL				
C8540		111.0	111.85	0.85	0.27	NIL				
* C8527					5.49					

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-41

Collar Elevation: 4,983'

Hole No. 1050-01-41 Sheet 1	Length 195 metres	Commenced February 19, 1981	Dip: Collar -45°	<p>Location Sketch North</p>
Property Mirado (1050-01)	Bearing S 35° W	Completed February 22, 1981	Etch Test	
Township Catharine	Dip -45°	Drilling Co. St-Lambert	Depth Rdg. True	
Location L - 0+54E at 7+01N, (Section G)	Objective To test mineralization in the south zone.	Core Size BQ	1 60m 53.5° 45°	
Logged By G. Tremblay		Casing Left/Lost in Hole None	2 120m 53.5° 45°	
Core Location Timmins			3 195m 50.0° 41°	

Remarks Samples taken at: 15.5, 41.4, 52.9, 53.5, 67.3, 87.0, 98.45, 108.2, 123.0, 137.6, 158.5, 164.8.

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
0	3.30	CASING	C8563	6.0	7.5	1.5	0.16	0.2				
0	10.8'		C8564	7.5	9.0	1.5	0.26	0.3				
			C8565	9.0	10.5	1.5	0.03	NIL				
3.30	82.60	LAPILLI TUFF	C8566	10.5	12.0	1.5	0.03	NIL				
10.8'	271.0'		C8567	12.0	13.5	1.5	0.24	NIL				
			C8568	13.5	15.0	1.5	2.41	0.8				
82.60	83.65	FELSIC DYKE	C8569	15.0	16.5	1.5	0.23	NIL				
271.0'	274.4'		C8570	16.5	18.0	1.5	0.07	0.2				
			C8571	18.0	19.5	1.5	0.21	0.9				
83.65	88.25	AGGLOMERATE	C8572	19.5	21.0	1.5	0.06	NIL				
274.4'	289.5'		C1462	45.0	46.5	1.5	0.04	NIL				
			C1463	46.5	47.7	1.2	0.07	0.8				
88.25	106.40	LAPILLI TUFF	C8573	47.7	49.5	1.8	1.62	2.8				
289.5'	349.1'		C8574	49.5	51.0	1.5	0.55	0.7				
			C8575	51.0	52.5	1.5	0.10	0.3				
106.40	160.90	TUFF	C0126	52.5	54.0	1.5	0.04	0.5				
349.1'	527.9'		C0127	54.0	56.0	2.0	0.42	1.2				
			C1464	56.0	57.5	1.5	0.07	NIL				
160.90	195.00	MAFIC LAVA	C1465	57.5	59.0	1.5	0.08	NIL				
527.9'	639.8'		C0128	98.15	99.0	0.85	0.18	1.0				
			C0129	99.0	99.9	0.90	0.11	0.6				
	195.00	END OF HOLE	C0130	99.9	102.0	2.1	0.05	0.2				
	639.8'		C0131	102.0	103.5	1.5	0.10	1.0				
			C0132	103.5	105.0	1.5	0.03	0.3				
			C0133	105.0	106.4	1.4	0.07	0.4				
			C0134	106.4	108.0	1.6	0.05	0.2				
			C0135	108.0	109.5	1.5	0.13	0.3				



**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-41  
Sheet No. 1a

Footage - Metres		DESCRIPTION	Sample No.	From	To	Length (METRES)	Au ppm	Ag ppm							
From	To														
			C0136	129.1	129.8	0.7	0.01	NIL							
			C0137	142.5	144.0	1.5	0.17	0.4							
			C0138	144.0	145.5	1.5	0.16	0.4							
			C0139	145.5	147.0	1.5	0.15	0.2							
			C0140	147.0	148.5	1.5	0.13	NIL							
			C0141	148.5	150.0	1.5	0.05	NIL							
			C0142	150.0	151.5	1.5	0.16	NIL							
			C0143	151.5	153.0	1.5	0.30	NIL							
			C0144	153.0	154.5	1.5	0.32	NIL							
			C0145	154.5	156.0	1.5	0.27	NIL							
			C0146	156.0	157.5	1.5	0.12	NIL							
			C0147	157.5	158.5	1.0	0.43	0.2							
			C0148	158.5	160.55	2.05	0.24	0.3							
			C0149	160.5	160.9	0.35	5.49	1.9							
			C0150	160.9	162.85	1.95	0.49	1.3							
			C0151	162.8	163.15	0.30	1.19	1.3							
			C0152	163.1	164.8	1.65	0.57	0.3							
			C1466	164.8	168.0	3.2	0.09	NIL							
			C1467	168.0	171.0	3.0	0.08	0.2							
			C1468	171.0	174.0	3.0	0.09	NIL							
			C1469	174.0	177.0	3.0	0.03	NIL							
			C1470	177.0	180.0	3.0	0.08	NIL							
			C1471	180.0	183.0	3.0	0.03	NIL							
			C1472	183.0	186.0	3.0	0.04	NIL							
			C1473	186.0	189.0	3.0	0.07	NIL							
			C1474	189.0	192.0	3.0	0.14	NIL							
			C1475	192.0	195.0	3.0	0.22	0.2							



**AMAX MINERALS EXPLORATION**  
(A Division of Amex of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-41  
Sheet No. 3

Footage meters/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
82.60	83.65	FELSIC DYKE										
271.0'	274.4'											
		Sharp upper and lower contacts at $\approx 15^\circ$ from the core axis.										
83.65	88.25	AGGLOMERATE										
274.4'	289.5'											
		The agglomerate has the same composition as the above lapilli tuff.										
		The agglomerate is composed of larger mafic (chloritic) fragments in an intermediate matrix. The color of the fragments is dark green, and the matrix is medium to light green.										
		The size of the fragments ranges from 1/16" to 4". The average size is agglomeratic.										
		Pyrite content: <1 - 1% pyrite.										
88.25	106.40	LAPILLI TUFF	C0128	98.15	99.0	0.85	0.18	1.0				
289.5'	349.1'		C0129	99.0	99.9	0.90	0.11	0.6				
		Same as 3.30 to 82.60.	C0130	99.9	102.0	2.1	0.05	0.2				
		Contains minor amounts of agglomerate and tuff, which have the same composition as the lapilli tuff.	C0131	102.0	103.5	1.5	0.10	1.0				
		Pyrite content: <1% - 1%.	C0132	103.5	105.0	1.5	0.03	0.3				
			C0133	105.0	106.4	1.4	0.07	0.4				
		88.25 - 91.00: Lapilli tuff										
		91.00 - 93.00: Agglomerate										
		93.00 - 98.15: Lapilli tuff with some tuff.										
		98.15 - 99.00: Well-bedded tuff. Contains 2-6% pyrite.										
		Bedding at $65^\circ$ from core axis.										
		99.00 - 99.90: Agglomerate / Contains 2-5% pyrite.										
		99.90 - 106.40: Lapilli tuff										
106.40	160.90	TUFF	C0134	106.4	108.0	1.6	0.05	0.2				
349.1'	527.9'		C0135	108.0	109.5	1.5	0.13	0.3				
		Medium to light grey, fine-grained and massive. Contains scattered small mafic fragments. Numerous thin quartz-calcite veins cut this section. The veins are randomly oriented.	C0136	129.1	129.8	0.7	0.01	NIL				
		Pyrite content: <1 - 2%.	C0137	142.5	144.0	1.5	0.17	0.4				
		110.00 - 110.40: Mafic dyke	C0138	144.0	145.5	1.5	0.16	0.4				
		112.30: Mafic fragments (1") heavily mineralized with pyrite.	C0139	145.5	147.0	1.5	0.15	0.2				
		118.30: Quartz-calcite vein - 2" wide.	C0140	147.0	148.5	1.5	0.13	NIL				
		129.10 - 129.80: Quartz-calcite vein, barren.	C0141	148.5	150.0	1.5	0.05	NIL				
		160.55 - 160.90: Cherty tuff with 2-4% pyrite.	C0142	150.0	151.5	1.5	0.16	NIL				
			C0143	151.5	153.0	1.5	0.30	NIL				
			C0144	153.0	154.5	1.5	0.32	NIL				



AMAX MINERALS EXPLORATION

Cord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050-01-41  
 Date: Feb. 26/81

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SWASTIKA		Lab.			Rejects Kept
		From	To		Au	Ag	Au			
Units		Metres	Metres	Metres	PPM	PPM				
C8563		6.00	7.5	1.50	0.16	0.2				
C8564		7.50	9.0	1.50	0.26	0.3				
C8565		9.00	10.5	1.50	0.03	NIL				
C8566		10.50	12.0	1.50	0.03	NIL				
C8567		12.0	13.5	1.50	0.24	NIL				
* C8568		13.5	15.0	1.50	2.41 2.46	0.8				
C8569		15.0	16.5	1.50	0.23	NIL				
C8570		16.8	18.0	1.20	0.07	0.2				
C8571		18.0	19.5	1.50	0.21	0.9				
C8572		19.5	21.0	1.50	0.06	NIL				
C8573		47.40	49.5	2.10	1.62 1.37	2.8				
C8574		49.5	51.0	1.50	0.55	0.7				
C8575		51.0	52.5	1.50	0.10	0.3				
C0126		52.5	54.0	1.50	0.04	0.5				
C0127		54.0	56.0	2.00	0.42	1.2				
C0128		98.15	99.0	0.85	0.18	1.0				
C0129		99.00	99.90	0.90	0.11	0.6				
C0130		99.90	102.0	2.10	0.05	0.2				
C0131		102.0	103.5	1.50	0.10	1.0				
C0132		103.5	105.0	1.50	0.03	0.3				
C0133		105.0	106.4	1.40	0.07	0.4				
C0134		106.4	108.0	1.60	0.05	0.2				
C0135		108.0	109.5	1.50	0.13	0.3				
C0136		129.1	129.8	0.70	0.01	NIL				

\* C8568

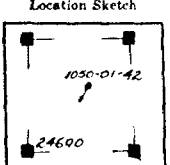
1.37



**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Collar Elevation: 4,976'

Hole No 1050-01-42

Hole No. 1050-01-42 Sheet 1	Length 215.0 metres	Commenced February 22, 1981	Dip: Collar -45°	Location Sketch 
Property Mirado (1050-01)	Bearing S35°W	Completed February 25, 1981	Etch Test	
Township Catharine	Dip -45°	Drilling Co. St-Lambert	Depth Rdg. True	
Location L-1+13E at 7+63N (Section "H")	Objective To test mineralization in the south zone.	Core Size BQ	1 60m 51.5° 43° 2 120m 50.0° 41° 3 203m 37.5° 30°	
Logged By G. Tremblay	Core Location Timmins	Casing Left/Lost in Hole None		Claim No. 24690 Scale: 1" = 1320'
Remarks Core Specimens: 19.5, 30.4, 38.1, 50.35, 66.4, 95.8, 110.10, 119.1, 168.7, 184.2, 197.7, 208.7.				

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm		
From	To									
0	6.00	CASING								
0	19.7'									
6.00	58.50	LAPILLI TUFF WITH MINOR TUFF	C0161	6.00	7.50	1.50	0.04	0.3		
19.7'	191.9'		C0162	7.50	9.40	1.90	0.01	0.2		
			C0163	9.40	11.00	1.60	0.16	0.3		
			C0164	11.00	12.00	1.50	0.14	0.8		
			C0165	12.50	14.00	1.50	0.01	NIL		
58.50	69.80	LAPILLI TUFF	C0166	14.00	15.00	1.00	0.03	0.2		
191.9'	229.0'		C0167	15.00	16.00	1.00	0.14	0.5		
			C0168	16.00	17.35	1.35	0.10	0.3		
69.80	100.30	LAPILLI TUFF WITH TUFF	C0169	17.35	18.50	1.15	0.02	0.2		
229.0'	329.1'		C0170	18.50	20.00	1.50	0.02	NIL		
			C0171	20.00	21.50	1.50	0.03	0.2		
100.30	112.15	LAPILLI TUFF	C0172	21.50	24.00	2.50	0.14	0.4		
329.1'	367.9'		C0173	24.00	25.00	1.51	0.04	0.2		
			C0174	25.50	27.0	1.51	0.04	0.2		
112.15	163.70	TUFF WITH MINOR LAPILLI TUFF	C0175	27.0	28.5	1.5	NIL	NIL		
367.9'	537.1'		C0176	28.5	30.0	1.5	0.02	NIL		
			C0177	30.0	31.5	1.5	NIL	NIL		
163.70	177.00	MAFIC LAVA	C0178	31.5	33.0	1.5	0.01	NIL		
537.1'	580.7'		C0179	33.0	34.5	1.5	0.06	NIL		
			C0180	34.5	36.0	1.5	0.08	0.3		
177.00	189.15	INTERBEDDED SILICEOUS LAVA WITH MAFIC LAVA	C0181	36.0	37.5	1.5	0.07	0.5		
580.7'	620.6'		C0182	37.5	39.0	1.5	4.12	2.0		
			C0183	39.0	40.5	1.5	0.06	NIL		
189.15	201.45	TUFF WITH MINOR LAPILLI TUFF	C0184	40.5	42.0	1.5	0.15	0.2		
620.6'	660.9'		C0185	42.0	43.5	1.5	0.03	NIL		
			C0186	43.5	45.0	1.5	0.10	0.3		
201.45	203.40	SYENITE DYKE	C0187	45.0	46.5	1.5	NIL	NIL		
660.9'	667.3'		C0188	46.5	48.0	1.5	NIL	NIL		

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-42  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
203.40	213.70	TUFF AND LAPILLI TUFF													
667.3'	701.1'		C0189	48.0	49.5	1.5	0.07	NIL							
			C0190	49.5	51.0	1.5	0.01	NIL							
213.70	215.00	MAFIC LAVA	C0191	51.0	52.5	1.5	0.03	0.2							
701.1'	705.4'		C0192	52.5	54.0	1.5	0.01	NIL							
			C0193	54.0	55.5	1.5	0.01	NIL							
	215.00	END OF HOLE	C0194	55.5	57.0	1.5	0.01	NIL							
	705.4'		C0195	57.0	58.5	1.5	0.04	NIL							
			C0196	58.5	60.0	1.5	0.49	0.8							
			C0197	60.0	61.5	1.5	0.82	0.7							
			C0198	61.5	63.0	1.5	1.37	1.2							
			C0199	63.0	64.5	1.5	0.76	0.8							
			C0200	64.5	66.0	1.5	0.27	0.5							
			C0201	66.0	67.5	1.5	0.08	0.2							
			C0202	67.5	69.8	2.3	0.01	0.3							
			C0203	69.8	72.0	2.2	0.02	NIL							
			C0204	72.0	73.5	1.5	0.04	0.2							
			C0205	73.5	75.0	1.5	0.04	0.2							
			C0206	75.0	76.5	1.5	0.28	0.3							
			C0207	76.5	78.0	1.5	0.21	0.4							
			C0208	78.0	79.5	1.5	0.18	0.4							
			C0209	79.5	81.0	1.5	0.11	0.4							
			C0210	81.0	82.5	1.5	0.30	0.4							
			C0211	82.5	84.0	1.5	0.14	0.6							
			C0212	84.0	85.5	1.5	0.06	0.2							
			C0213	85.5	87.0	1.5	0.84	NIL							
			C0214	87.0	88.5	1.5	0.17	0.3							
			C0215	88.5	90.0	1.5	0.16	0.5							
			C0216	90.0	91.5	1.5	0.16	0.5							
			C0217	91.5	93.0	1.5	0.31	0.4							
			C0218	93.0	94.5	1.5	0.04	0.3							
			C0219	94.5	96.0	1.5	0.10	0.5							
			C0220	96.0	97.5	1.5	0.23	0.6							
			C0221	97.5	99.0	1.5	0.10	0.3							
			C0222	99.0	100.3	1.3	0.27	1.0							
			C0223	100.3	101.5	1.2	0.10	0.2							
			C0224	101.5	103.0	1.5	0.09	0.4							
			C0225	103.0	104.5	1.5	0.13	0.5							
			C0226	104.5	106.0	1.5	0.04	0.3							
			C0227	106.0	107.5	1.5	0.01	NIL							



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-42  
 Sheet No. 2A

Footage - Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
			C0228	107.5	109.0	1.5	NIL	NIL							
			C0229	109.0	110.5	1.5	0.01	0.2							
			C0230	110.5	112.15	1.65	NIL	NIL							
			C0231	112.15	113.5	1.35	0.05	0.3							
			C0232	113.5	115.0	1.5	0.30	0.8							
			C0233	115.0	116.5	1.5	0.16	0.4							
			C0234	116.5	118.0	1.5	0.07	0.4							
			C0235	118.0	119.5	1.5	2.72	2.0							
			C0236	119.5	121.0	1.5	0.37	1.8							
			C0237	121.0	122.5	1.5	0.12	0.6							
			C0238	122.5	124.5	2.0	0.34	0.2							
			C0239	124.5	126.0	1.5	0.08	0.2							
			C0240	126.0	127.5	1.5	0.10	0.5							
			C0241	127.5	129.0	1.5	0.33	0.7							
			C0242	129.0	130.5	1.5	1.14	0.7							
			C0243	130.5	132.0	1.5	0.23	0.6							
			C0244	132.0	133.5	1.5	0.12	0.3							
			C0245	133.5	135.0	1.5	0.24	0.3							
			C0246	135.0	136.5	1.5	0.38	0.4							
			C0247	136.5	138.0	1.5	0.23	0.5							
			C0248	138.0	139.5	1.5	0.16	0.4							
			C0249	139.5	141.0	1.5	0.06	0.2							
			C0250	141.0	142.5	1.5	0.09	0.3							
			C0251	142.5	144.0	1.5	0.34	0.2							
			C0252	144.0	145.5	1.5	2.74	0.4							
			C0253	145.5	147.0	1.5	0.74	NIL							
			C0254	147.0	148.5	1.5	0.06	NIL							
			C0255	148.5	150.0	1.5	0.04	NIL							
			C0256	150.0	151.5	1.5	0.13	NIL							
			C0257	151.5	153.0	1.5	0.12	NIL							
			C0258	153.0	154.5	1.5	0.07	NIL							
			C0259	154.5	156.0	1.5	1.55	NIL							
			C0260	156.0	157.5	1.5	0.74	NIL							
			C0261	157.5	159.0	1.5	0.06	NIL							
			C0262	159.0	160.5	1.5	0.16	NIL							
			C0263	160.5	162.0	1.5	0.03	NIL							
			C0264	162.0	163.7	1.7	0.09	NIL							
			C0265	163.7	165.0	1.3	0.12	NIL							
			C0266	165.0	166.5	1.5	0.07	NIL							





AMAX MINERALS EXPLORATION  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 050-01-42  
Sheet No. 3

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm								
From	To															
0	6.00	CASING														
0	19.7'															
6.00	58.50	LAPILLI TUFF WITH MINOR TUFF	C0161	6.0	7.5	1.5	0.04	0.3								
19.7'	191.9'			C0162	7.5	9.4	1.9	0.01	0.2							
		<p>The lapilli tuff and tuff are light to dark grey. The lapilli tuff is composed of small mafic fragments in an intermediate matrix. The size of the fragments ranges from 1/16" to 1". The average size is less than 3/8 of an inch.</p> <p>The tuff is composed of small mafic fragments and feldspar fragments. The contacts between the lapilli tuff and tuff are gradual.</p> <p>Pyrite content: 1-8%. The pyrite mineralization occurs as finely disseminated, in thin fractures or in clots.</p> <p>6.00 - 9.40: Tuff; pyrite content: 1-3% except as noted. 7.00 - 7.50: 3-8% pyrite.</p> <p>9.40 - 17.35: Lapilli tuff / 2-8% pyrite. At 11.35: 1/2" pyrite seam.</p> <p>17.35 - 21.50: Mostly tuff / 1-2% pyrite.</p> <p>21.50 - 44.60: Mostly lapilli tuff / 1-3% pyrite. At 38.85: 40% pyrite with &lt; chalcopyrite over 3/4" (seam). At 42.30: 1/2" of 25% pyrite.</p> <p>44.60 - 58.50: Mostly tuff / less than 1% and up to 3% pyrite.</p>														
				C0163	9.4	11.0	1.6	0.16	0.3							
				C0164	11.0	12.0	1.5	0.14	0.8							
				C0165	12.5	14.0	1.5	0.01	NIL							
				C0166	14.0	15.0	1.0	0.03	0.2							
				C0167	15.0	16.0	1.0	0.14	0.5							
				C0168	16.0	17.35	1.35	0.10	0.3							
				C0169	17.35	18.5	1.15	0.02	0.2							
				C0170	18.5	20.0	1.5	0.02	NIL							
				C0171	20.0	21.5	1.5	0.03	0.2							
				C0172	21.5	24.0	2.5	0.04	0.4							
				C0173	24.0	25.0	1.5	0.04	0.2							
				C0174	25.5	27.0	1.5	0.04	0.2							
				C0175	27.0	28.5	1.5	NIL	NIL							
				C0176	28.5	30.0	1.5	0.02	NIL							
				C0177	30.0	31.5	1.5	NIL	NIL							
				C0178	31.5	33.0	1.5	0.01	NIL							
				C0179	33.0	34.5	1.5	0.06	NIL							
				C0180	34.5	36.0	1.5	0.08	0.3							
			C0181	36.0	37.5	1.5	0.07	0.5								
			C0182	37.5	39.0	1.5	4.12	2.0								
			C0183	39.0	40.5	1.5	0.06	NIL								
			C0184	40.5	42.0	1.5	0.15	0.2								
58.50	69.80	LAPILLI TUFF	C0185	42.0	43.5	1.5	0.03	NIL								
191.9'	229.0'			C0186	43.5	45.0	1.5	0.10	0.3							
		<p>Same composition as 6.00 - 58.50, but with larger fragments. The lapilli tuff is composed of mafic fragments in an intermediate to felsic matrix. The size of the fragments ranges from 1/16" to 2". The average size is <math>\approx</math> 1/2".</p> <p>Pyrite content: 2-6% pyrite, &lt; chalcopyrite.</p>														
				C0187	45.0	46.5	1.5	NIL	NIL							
				C0188	46.5	48.0	1.5	NIL	NIL							
				C0189	48.0	49.5	1.5	0.07	NIL							
				C0190	49.5	51.0	1.5	0.01	NIL							
				C0191	51.0	52.5	1.5	0.03	0.2							
				C0192	52.5	54.0	1.5	0.01	NIL							
				C0193	54.0	55.5	1.5	0.01	NIL							
				C0194	55.5	57.0	1.5	0.01	NIL							
				C0195	57.0	58.5	1.5	0.04	NIL							
				C0196	58.5	60.0	1.5	0.49	0.8							
			C0197	60.0	61.5	1.5	0.82	0.7								

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-42  
Sheet No. 4

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm						
From	To													
69.80	100.30	LAPILLI TUFF WITH TUFF  As 6.00 - 58.50, but with smaller fragments. Pyrite content: <1 - 4% pyrite with < chalcopyrite. At 96.4: ½" pyrite-chalcopyrite seam.	C0198	61.5	63.0	1.5	1.37	1.2						
229.0'	329.1'		C0199	63.0	64.5	1.5	0.76	0.8						
			C0200	64.5	66.0	1.5	0.27	0.5						
			C0201	66.0	67.5	1.5	0.08	0.2						
			C0202	67.5	69.5	2.3	0.01	0.3						
			C0203	69.8	72.0	2.2	0.02	NIL						
100.30	112.15	LAPILLI TUFF  The lapilli tuff is composed of mafic fragments in an intermediate matrix. The size of the fragments ranges from 1/16" to 1" As in hole # 1050-01-41, from 65.7 - 82.60, the lapilli tuff contains numerous quartz-calcite vesicles or 'fragments'. The vesicles or fragments have generally an elliptic or round shape. Their size ranges from 1/16" to ½". Pyrite content: <1 - 3% pyrite.	C0204	72.0	73.5	1.5	0.04	0.2						
329.1'	367.9'		C0205	73.5	75.0	1.5	0.04	0.2						
			C0206	75.0	76.5	1.5	0.28	0.3						
			C0207	76.5	78.0	1.5	0.21	0.4						
			C0208	78.0	79.5	1.5	0.18	0.4						
			C0209	79.5	81.0	1.5	0.11	0.4						
			C0210	81.0	82.5	1.5	0.30	0.4						
			C0211	82.5	84.0	1.5	0.14	0.6						
			C0212	84.0	85.5	1.5	0.06	0.2						
			C0213	85.5	87.0	1.5	0.84	NIL						
112.15	163.70		TUFF WITH MINOR LAPILLI TUFF  The tuff is medium to light grey and massive. This section contains minor lapilli tuff. Pyrite content: <1 - 4% with < chalcopyrite.  112.15 - 113.65: Tuff 113.65 - 114.00: Lapilli tuff (same as 100.30 - 112.15) 114.00 - 114.35: Tuff 114.35 - 114.50: Lapilli tuff (same as 100.30 - 112.15) 114.50 - 163.70: Tuff with minor lapilli tuff From 159.0 - 163.7: chloritic angular fragments.	C0214	87.0	88.5	1.5	0.17	0.3					
367.9'	537.1'			C0215	88.5	90.0	1.5	0.16	0.5					
				C0216	90.0	91.5	1.5	0.16	0.5					
		C0217		91.5	93.0	1.5	0.31	0.4						
		C0218		93.0	94.5	1.5	0.04	0.3						
		C0219		94.5	96.0	1.5	0.10	0.5						
		C0220		96.0	97.5	1.5	0.23	0.6						
		C0221		97.5	99.0	1.5	0.10	0.3						
		C0222		99.0	100.3	1.3	0.27	1.0						
		C0223		100.3	101.5	1.2	0.10	0.2						
		C0224		101.5	103.0	1.5	0.09	0.4						
		C0225		103.0	104.5	1.5	0.13	0.5						
		C0226		104.5	106.0	1.5	0.04	0.3						
163.70	177.00	MAFIC LAVA  Same as 160.90 to 195.00 in hole # 1050-01-41. The mafic lava is medium to dark green, massive. Contains numerous amygdules which have a light green color (epidote). The size of the amygdules ranges from 1/16" to ¼". Pyrite content: <1 - 2% pyrite.		C0227	106.0	107.5	1.5	0.01	NIL					
537.1'	580.7'		C0228	107.5	109.0	1.5	NIL	NIL						
			C0229	109.0	110.5	1.5	0.01	0.2						
			C0230	110.5	112.15	1.65	NIL	NIL						
			C0231	112.15	113.5	1.35	0.05	0.3						
			C0232	113.5	115.0	1.5	0.30	0.8						
			C0233	115.0	116.5	1.5	0.16	0.4						
			C0234	116.5	118.0	1.5	0.07	0.4						
			C0235	118.0	119.5	1.5	2.72	2.0						
			C0236	119.5	121.0	1.5	0.37	1.8						
		C0237	121.0	122.5	1.5	0.12	0.6							





AMAX MINERALS EXPLORATION

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Coord:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
Hole No: 1050-01-42  
Date: Jul. 27/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.				Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au				Kept
Units		Metres	Metres	Metres	PPM	PPM					
C0161		6.01	7.50	1.49	0.04	0.3					
C0162		7.50	9.40	1.90	0.01	0.2					
C0163		9.40	11.00	1.60	0.16	0.3					
C0164		11.00	12.50	1.50	0.14	0.8					
C0165		12.50	14.00	1.50	0.01	NIL					
C0166		14.00	15.00	1.00	0.03	0.2					
C0167		15.00	16.00	1.00	0.14	0.5					
C0168		16.00	17.35	1.35	0.10	0.3					
C0169		17.35	18.50	1.15	0.02	0.2					
C0170		18.50	20.00	1.50	0.02	NIL					
C0171		20.00	21.5	1.50	0.03	0.2					
C0172		21.5	24.0	2.50	0.14	0.4					
C0173		24.0	25.5	1.50	0.04	0.2					
C0174		25.5	27.0	1.50	0.04	0.2					
C0175		27.0	28.5	1.50	NIL	NIL					
C0176		28.5	30.0	1.50	0.02	NIL					
C0177		30.0	31.7	1.70	NIL	NIL					
C0178		31.5	33.0	1.50	0.01	NIL					
C0179		33.0	34.5	1.50	0.06	NIL					
C0180		34.5	36.0	1.50	0.08	0.3					
C0181		36.0	37.5	1.50	0.07	0.5					
* C0182		37.5	39.0	1.50	3.77 4.12	2.0					
C0183		39.0	40.5	1.50	0.06	NIL					
C0184		40.5	42.0	1.50	0.15	0.2					
* C0182					3.77						



AMAX MINERALS EXPLORATION

Core:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
Hole No: 1050-01-42  
Date: March 10/81

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SWASTIKA		Lab.			Rejects Kept
		From	To		Au	Ag	Au			
Units		Meters	Meters	Meters	Ppm	Ppm				
C0185		42.0	43.5	1.50	0.03	NIL				
C0186		43.5	45.0	1.50	0.10	0.3				
C0187		45.0	46.5	1.50	NIL	NIL				
C0188		46.5	48.0	1.50	NIL	NIL				
C0189		48.0	49.5	1.50	0.07	NIL				
C0190		49.5	51.0	1.50	0.01	NIL				
C0191		51.0	52.5	1.50	0.03	0.2				
C0192		52.5	54.0	1.50	0.01	NIL				
C0193		54.0	55.5	1.50	0.01	NIL				
C0194		55.5	57.0	1.50	0.01	NIL				
C0195		57.0	58.5	1.50	0.04	NIL				
C0196		58.5	60.0	1.50	0.49	0.8				
C0197		60.0	61.5	1.50	0.82	0.7				
C0198		61.5	63.0	1.50	1.10 1.37	1.2				
C0199		63.0	64.5	1.50	0.76	0.8				
C0200		64.5	66.0	1.50	0.27	0.5				
C0201		66.0	67.5	1.50	0.08	0.2				
C0202		67.5	69.8	2.30	0.01	0.3				
C0203		69.8	72.0	2.20	0.02	NIL				
C0204		72.0	73.5	1.50	0.04	0.2				
C0205		73.5	75.0	1.50	0.04	0.2				
C0206		75.0	76.5	1.50	0.28	0.3				
C0207		76.5	78.0	1.50	0.21	0.4				
C0208		78.0	79.5	1.50	0.18	0.4				

AMAX MINERALS EXPLORATION

-ord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050-01-42  
 Date: March 10/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.				Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au				Kept
	Units	Meters	Meters	Meters	PPM	PPM					
C0209		79.5	81.0	1.50	0.11	0.4					
C0210		81.0	82.5	1.50	0.30	0.4					
C0211		82.5	84.0	1.50	0.14	0.6					
C0212		84.0	85.5	1.50	0.06	0.2					
C0213		85.5	87.0	1.50	0.04	Nil					
C0214		87.0	88.5	1.50	0.17	0.3					
C0215		88.5	90.0	1.50	0.16	0.5					
C0216		90.0	91.5	1.50	0.16	0.5					
C0217		91.5	93.0	1.50	0.31	0.4					
C0218		93.0	94.5	1.50	0.04	0.3					
C0219		94.5	96.0	1.50	0.10	0.5					
C0220		96.0	97.5	1.50	0.23	0.6					
C0221		97.5	99.0	1.50	0.10	0.3					
C0222		99.0	100.3	1.30	0.27	1.0					
C0223		100.3	101.5	1.20	0.10	0.2					
C0224		101.5	103.0	1.50	0.09	0.4					
C0225		103.0	104.5	1.50	0.13	0.5					
C0226		104.5	106.0	1.50	0.04	0.3					
C0227		106.0	107.5	1.50	0.01	Nil					
C0228		107.5	109.0	1.50	Nil	Nil					
C0229		109.0	110.5	1.50	0.01	0.2					
C0230		110.5	112.15	1.65	Nil	Nil					
C0231		112.15	113.5	1.35	0.05	0.3					
C0232		113.5	115.0	1.50	0.30	0.8					

AMAX MINERALS EXPLORATION

-4-

ord:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
Hole No: 1050-42  
Date: March, 13/81.

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.		Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au		Kept
Units		Meters	Meters	Meters	PPM	PPM			
C0233		115.0	116.5	1.50	0.16	0.4			
C0234		116.5	118.0	1.50	0.07	0.4			
C0235		118.0	119.5	1.50	2.41 1.72	2.0			
C0236		119.5	121.0	1.50	0.37	1.8			
C0237		121.0	122.5	1.50	0.12	0.6			
C0238		122.5	124.5	2.00	0.34	0.2			
C0239		124.5	126.0	1.50	0.08	0.2			
C0240		126.0	127.5	1.50	0.10	0.5			
C0241		127.5	129.0	1.50	0.33	0.7			
C0242		129.0	130.5	1.50	1.14 1.03	0.7			
C0243		130.5	132.0	1.50	0.23	0.6			
C0244		132.0	133.5	1.50	0.12	0.3			
C0245		133.5	135.0	1.50	0.24	0.3			
C0246		135.0	136.5	1.50	0.38	0.4			
C0247		136.5	138.0	1.50	0.23	0.5			
C0248		138.0	139.5	1.50	0.16	0.4			
C0249		139.5	141.0	1.50	0.06	0.2			
C0250	*	141.0	142.5	1.50	0.09	0.3			
C0251		142.5	144.0	1.50	0.34	0.2			
C0252		144.0	145.5	1.50	2.17 2.74	0.4			
C0253		145.5	147.0	1.50	0.14	NIL			
C0254		147.0	148.5	1.50	0.06	NIL			
C0255		148.5	150.0	1.50	0.04	NIL			
C0256		150.0	151.5	1.50	0.13	NIL			

\* C0235

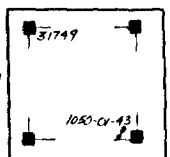
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**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-43

Collar Elevation: 5,001'

Hole No. 1050-01-43 Sheet 1	Length 270.00 metres	Commenced February 25, 1981	Dip: Collar -45°	Location Sketch  North Claim No. 31749 Scale: 1" = 1320'
Property Mirado (1050-01)	Bearing S 35° W	Completed February 28, 1981	Etch Test	
Township McElroy-Catharine	Dip -45°	Drilling Co. St-Lambert	Depth Rdg. True	
Location L - 0+13W at 13+52N (Section F)	Objective To test north and middle zones.	Core Size BQ	1 60m 51.5° 43° 2 120m 48° 39° 3 180m 43° 34.5° 4 267m 37.5° 30°	
Logged By G. Tremblay		Casing Left/Lost in Hole Yes		
Core Location Timmins				
Remarks Core Specimens: 20.9, 27.5, 48.2, 49.8, 53.1, 63.8, 68.7, 77.7, 102.0, 126.0, 138.1, 153.7, 163.7, 173.3, 182.5, 192.6, 211.75, 221.9, 237.8, 243.0.				

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
0	5.00	CASING	C1380	7.0	8.0	1.0	0.01	NIL					
0	16.4'		C1381	8.0	9.0	1.0	0.10	0.2					
			C1382	9.0	10.0	1.0	NIL	NIL					
5.00	47.65	LAPILLI TUFF	C1383	10.0	12.0	2.0	0.02	NIL					
16.4'	156.3'		C1384	12.0	13.5	1.5	0.80	0.3					
			C1385	13.5	15.0	1.5	NIL	NIL					
47.65	48.50	CHERTY TUFF	C1386	46.5	47.65	1.5	0.21	0.2					
156.3'	159.1'		C1387	47.65	48.5	0.85	3.77	1.8					
			C1388	48.5	49.5	1.0	0.02	NIL					
48.50	52.85	TUFF	C1389	54.0	55.5	1.5	0.14	0.3					
159.1'	173.4'		C1390	55.5	57.0	1.5	0.13	0.3					
			C1391	57.0	58.5	1.5	0.38	0.2					
52.85	62.55	AGGLOMERATE	C1392	58.5	60.0	1.5	0.07	0.2					
173.4'	205.2'		C1393	60.0	61.5	1.5	0.07	0.2					
			C1394	61.5	62.55	1.05	0.31	1.2					
62.55	86.50	LAPILLI TUFF AND TUFF	C1395	62.55	54.5	1.95	0.03	0.2					
205.2'	283.8'		C1396	85.0	86.5	1.5	0.01	NIL					
			C1397	86.5	87.5	1.0	0.18	0.4					
86.50	136.30	LAPILLI TUFF	C1398	87.5	88.5	1.0	0.21	0.4					
283.8'	447.2'		C1399	88.5	90.0	1.5	0.02	NIL					
			C1400	90.0	91.5	1.5	2.09	0.3					
136.30	151.00	CRYSTAL TUFF AND TUFF	C1401	91.5	93.0	1.5	1.20	0.4					
447.2'	495.4'		C1402	93.0	94.5	1.5	0.48	NIL					
			C1403	94.5	96.0	1.5	0.03	NIL					
151.00	157.00	LAPILLI TUFF	C1404	96.0	97.5	1.5	0.01	NIL					
495.4'	515.1'		C1405	97.5	99.0	1.5	1.29	NIL					
			C1406	99.0	100.5	1.5	0.03	NIL					
157.00	169.00	TUFF WITH MINOR LAPILLI TUFF	C1407	108.0	109.5	1.5	NIL	NIL					
515.1'	554.5'		C1408	109.5	111.0	1.5	NIL	NIL					

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. J050-01-43  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
169.00	178.55	LAPILLI TUFF	C1409	111.0	112.5	1.5	NIL	NIL				
554.5'	585.8'		C1410	127.8	129.0	1.2	0.10	0.3				
			C1411	129.0	130.5	1.5	0.48	0.5				
			C1412	130.5	132.0	1.5	0.02	NIL				
178.55	189.00	TUFF AND MINOR LAPILLI TUFF	C1413	132.0	133.5	1.5	0.23	NIL				
585.8'	620.1'		C1414	133.5	135.0	1.5	0.10	0.3				
			C1415	135.0	136.3	1.3	0.71	0.4				
189.00	197.80	LAPILLI TUFF	C1416	136.3	138.0	1.7	0.03	NIL				
620.1'	649.0'		C1417	138.0	139.5	1.5	1.68	NIL				
			C1418	139.5	141.0	1.5	NIL	NIL				
197.80	202.85	TUFF	C1419	151.0	153.0	2.0	0.04	NIL				
649.0'	665.5'		C1420	153.0	154.3	1.3	0.05	NIL				
			C1421	154.3	155.4	1.1	8.99	1.5				
202.85	213.30	LAPILLI TUFF	C1422	155.4	157.0	1.6	0.09	NIL				
665.5'	699.8'		C1423	157.0	158.0	1.0	NIL	NIL				
			C1424	168.0	169.0	1.0	0.02	NIL				
213.30	222.45	TUFF AND MINOR LAPILLI TUFF	C1425	169.0	170.0	1.0	6.07	0.9				
699.8'	729.8'		C1426	170.0	171.0	1.0	0.45	0.3				
			C1427	171.0	172.1	1.1	0.18	NIL				
222.45	233.75	LAPILLI TUFF	C1428	172.1	174.0	1.9	0.40	0.2				
729.8'	766.9'		C1429	174.0	175.5	1.5	0.16	0.2				
			C1430	175.5	176.9	1.4	0.40	0.2				
233.75	270.00	TUFF	C1431	176.9	178.4	1.5	1.72	0.3				
766.9'	885.8'		C1432	178.4	180.0	1.6	0.02	NIL				
			C1433	186.0	187.0	1.0	0.04	NIL				
	270.00	END OF HOLE	C1434	201.0	202.85	1.85	0.07	0.2				
	885.8'		C1435	202.8	204.0	1.15	0.20	0.7				
			C1436	204.0	205.5	1.5	0.03	0.2				
			C1437	205.5	207.0	1.5	0.05	0.2				
			C1438	222.4	225.0	2.55	7.55	2.7				
			C1439	225.0	226.5	1.5	0.14	0.4				
			C1440	226.5	228.0	1.5	0.32	0.3				
			C1441	228.0	229.5	1.5	2.72	0.9				
			C1442	229.5	230.0	0.5	6.17	2.8				
			C1443	230.0	231.5	1.5	0.75	1.0				
			C1444	231.5	233.0	1.5	0.82	1.2				
			C1445	233.0	233.75	0.75	1.12	1.1				
			C1446	233.7	235.5	1.75	0.55	0.3				
			C1447	235.5	237.15	1.65	0.31	0.4				









**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-43  
Sheet No. 5

Footage metres/feet		DESCRIPTION	Sample No.	From	To (metres)	Length (metres)	Au ppm	Ag ppm						
From	To													
157.00	169.00	TUFF WITH MINOR LAPILLI TUFF	C1423	157.0	158.0	1.0	NIL	NIL						
515.1'	554.5'		C1424	168.0	169.0	1.0	0.02	NIL						
		Same as above; the lapilli tuff contains small fragments (<3/16"). Pyrite content: Negligible.												
169.00	178.55	LAPILLI TUFF	C1425	169.0	170.0	1.0	6.07	0.9						
554.5'	585.8'		C1426	170.0	171.0	1.0	0.45	0.3						
		Same as 86.50 - 136.30; contains some agglomerate. Pyrite content: <1 to 2% pyrite except as noted.	C1427	171.0	172.1	1.1	0.18	NIL						
			C1428	172.1	174.0	1.9	0.40	0.2						
			C1429	174.0	175.5	1.5	0.16	0.2						
		169.00 - 172.10: 2-6%.	C1430	175.5	176.9	1.4	0.40	0.2						
		At 169.60: 1" pyrite seam (50% pyrite).	C1431	176.9	178.4	1.5	1.72	0.3						
		At 176.90: 3/4" pyrite seam (15% pyrite).												
		At 178.35: 1/2" pyrite seam (80% pyrite).												
178.55	189.00	TUFF WITH MINOR LAPILLI TUFF	C1432	178.4	180.0	1.6	0.02	NIL						
585.8'	620.1'		C1433	186.0	187.0	1.0	0.04	NIL						
		Same as above. Negligible pyrite (less than 1%). At 186.35: 30% pyrite over 1/2".												
189.00	197.80	LAPILLI TUFF												
620.1'	649.0'	Same as 169.00 - 178.55. Negligible Pyrite (<1%).												
197.80	202.85	TUFF	C1434	201.0	202.85	1.85	0.07	0.2						
649.0'	665.5'	Same as above. Negligible pyrite.												
202.85	213.30	LAPILLI TUFF	C1435	202.8	204.0	1.15	0.20	0.7						
665.5'	699.8'		C1436	204.0	205.5	1.5	0.03	0.2						
		Same as above. The lapilli tuff is composed of mainly mafic fragments in an intermediate matrix. The size of the fragments ranges from 1/16" to 2". The average size is lapilli (= 3/4"). Pyrite content: Negligible except as noted. 202.85 - 203.20: 5-7% pyrite in seams and fractures. 205.55 - 205.60: 20% pyrite.	C1437	205.5	207.0	1.5	0.05	0.2						

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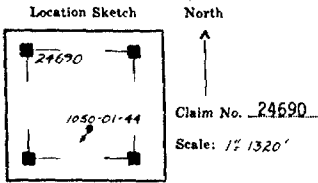
Hole N4050-01-43  
Sheet No. 6

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
213.30	222.45	TUFF AND MINOR LAPILLI TUFF													
699.8'	729.8'														
		Same as above. Negligible pyrite. Bedding at 213.90 from core axis: 67°.													
222.45	233.75	LAPILLI TUFF	C1438	222.4	225.0	2.55	7.55	2.7							
729.8'	766.9'		C1439	225.0	226.5	1.5	0.14	0.4							
		Same as 202.85 - 213.30. Pyrite content: <1% - 5% pyrite.	C1440	226.5	228.0	1.5	0.32	0.3							
			C1441	228.0	229.5	1.5	2.72	0.9							
			C1442	229.5	230.0	0.5	6.17	2.8							
		225.00 - 226.00: 2-3% pyrite.	C1443	230.0	231.5	1.5	0.75	1.0							
		228.20 - 229.80: 1-5% pyrite.	C1444	231.5	233.0	1.5	0.82	1.2							
		at 229.70: 1/2" pyrite seam (80% pyrite).	C1445	233.0	233.75	0.75	1.12	1.1							
233.75	270.00	TUFF	C1446	233.7	235.5	1.75	0.55	0.3							
766.9'	885.8'		C1447	235.5	237.15	1.65	0.31	0.4							
		Intermediate tuff. Negligible pyrite.	C1448	237.1	239.1	1.95	0.38	0.8							
			C1449	239.1	240.5	1.4	0.28	0.3							
		237.15 - 239.10: Mafic tuff / <1 - 4% pyrite.	C1450	240.5	243.0	2.5	1.10	0.3							
		At 239.05: 3/4" pyrite-chalcopyrite seam.	C1451	243.5	244.5	1.5	6.04	5.4							
		244.50 - 252.00: Scattered thin pyrite seam (1/16" - 1/8").	C1452	244.5	246.0	1.5	0.56	0.6							
		246.05 - 246.20: Barren quartz-calcite vein.	C1453	246.0	247.5	1.5	0.82	0.3							
		264.30 - 267.40: Lapilli tuff containing 2-5% pyrite.	C1454	247.5	249.0	1.5	0.11	0.2							
		264.90 - 265.50: 1/2" pyrite seam (50% pyrite) sub-parallel to the core axis.	C1455	249.0	250.5	1.5	0.47	0.5							
		268.70 - 268.80: Quartz-calcite-chlorite vein with minor chalco- pyrite.	C1456	250.5	252.0	1.5	0.51	0.3							
			C1457	262.5	264.3	1.8	0.23	0.6							
			C1458	264.3	265.5	1.2	20.58	28.9							
			C1459	265.5	267.4	1.9	0.34	0.6							
270.00	270.00	END OF HOLE	C1460	267.4	268.5	1.1	0.10	0.3							
885.8'	885.8'		C1461	268.5	270.0	1.5	0.15	0.5							

**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-44

Collar Elevation: 4,972'

Hole No. 1050-01-44 Sheet 1	Length 184.15 metres	Commenced February 28, 1981	Dip: Collar -45°	Location Sketch 
Property Mirado (1050-01)	Bearing S35°W	Completed March 3, 1981	Etch Test	
Township Catharine	Dip -45°	Drilling Co. St-Lambert	1 60m 50.5° 42°	
Location L - 3+48E at 4+01N (Section L)	Objective To test mineralization in the south zone.	Core Size 80	2 120m 48.5° 40°	
Logged By G. Tremblay		Casing Left/Lost in Hole None	3 184.15m 44.0° 35.5°	
Core Location Timmins				

Remarks Core Specimens: 16.7, 23.9, 35.3, 50.3, 53.3, 66.0, 88.5, 100.5, 107.9, 122.9, 132.1, 146.6, 159.0, 166.6, 183.0

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm		
From	To									
0	10.00	CASING	C0357	10.0	12.0	2.0	0.03	NIL		
0	32.8'		C0358	12.0	13.5	1.5	0.06	NIL		
			C0359	13.5	15.0	1.5	0.01	NIL		
10.00	49.30	TUFF	C0360	15.0	16.5	1.5	0.03	NIL		
32.8'	161.7'		C0361	16.5	18.0	1.5	NIL	NIL		
			C0362	18.0	19.5	1.5	NIL	NIL		
49.30	49.90	SYENITE DYKE	C0363	19.5	21.0	1.5	0.10	0.3		
161.7'	163.7'		C0364	21.0	22.5	1.5	0.31	0.6		
			C0365	22.5	24.0	1.5	0.27	0.7		
49.90	51.20	TUFF	C0366	24.0	25.5	1.5	0.12	0.4		
163.7'	168.0'		C0367	25.5	27.0	1.5	NIL	NIL		
			C0368	27.0	28.5	1.5	0.03	0.2		
51.20	59.50	LAPILLI TUFF	C0369	28.5	30.0	1.5	0.23	0.9		
168.0'	195.2'		C0370	30.0	31.5	1.5	0.03	0.2		
			C0371	31.5	33.0	1.5	NIL	NIL		
59.50	144.10	INTERBEDDED TUFF AND LAPILLI TUFF	C0372	33.0	34.5	1.5	0.21	0.9		
195.2'	472.8'		C0373	34.5	36.0	1.5	1.03	1.8		
			C0374	36.0	37.5	1.5	0.05	0.3		
144.10	151.65	LAPILLI TUFF	C0375	37.5	39.0	1.5	0.35	1.0		
472.8'	497.5'		C0376	39.0	40.5	1.5	0.01	NIL		
			C0377	40.5	42.0	1.5	0.21	0.7		
151.65	154.55	TUFF	C0378	42.0	43.5	1.5	1.08	1.8		
497.5'	507.1'		C0379	43.5	45.0	1.5	0.24	0.7		
			C0380	45.0	46.5	1.5	0.32	1.4		
154.55	184.15	TUFF	C0381	46.5	49.3	2.8	0.03	NIL		
507.1'	604.2'		C0382	49.3	49.9	0.6	NIL	NIL		
			C0383	49.9	51.2	1.3	0.01	NIL		
	184.15	END OF HOLE	C0384	51.2	52.0	0.8	0.19	0.6		
	604.2'		C0385	52.0	53.5	1.5	0.23	0.8		

**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-44  
Sheet No. 1a

Footage - Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm							
From	To														
			C0386	53.5	55.0	1.5	0.05	0.5							
			C0387	55.0	56.5	1.5	0.20	1.2							
			C0388	56.5	58.0	1.5	0.23	0.9							
			C0389	58.0	59.5	1.5	0.35	1.0							
			C0390	59.5	61.5	2.0	0.10	0.3							
			C0391	61.5	63.0	1.5	0.01	NIL							
			C0392	63.0	65.55	2.55	0.06	NIL							
			C0393	65.55	67.3	1.75	0.05	NIL							
			C0394	67.3	69.0	1.7	0.28	1.0							
			C0395	69.0	70.5	1.5	0.07	0.2							
			C0396	70.5	72.0	1.5	0.09	NIL							
			C0397	72.0	73.5	1.5	0.03	NIL							
			C0398	73.5	75.0	1.5	0.20	0.3							
			C0399	75.0	78.0	3.0	0.24	0.3							
			C0400	78.0	81.0	3.0	0.17	0.2							
			C0401	81.0	84.0	3.0	0.24	0.4							
			C0402	84.0	87.0	3.0	0.14	0.4							
			C0403	87.0	90.0	3.0	0.34	0.7							
			C0404	90.0	93.0	3.0	0.77	1.2							
			C0405	93.0	96.0	3.0	0.24	0.5							
			C0406	96.0	99.0	3.0	0.49	0.5							
			C0407	99.0	102.0	3.0	0.16	0.4							
			C0408	102.0	105.0	3.0	0.08	0.2							
			C0409	105.0	107.5	2.5	5.49	2.6							
			C0410	107.5	108.7	1.2	13.38	23.0							
			C0411	108.7	109.5	0.8	0.24	0.4							
			C0412	109.5	111.0	1.5	0.27	0.7							
			C0413	111.0	112.5	1.5	0.19	0.6							
			C0414	112.5	114.0	1.5	0.20	0.8							
			C0415	114.0	115.5	1.5	2.68	1.1							
			C0416	115.5	117.0	1.5	0.38	0.6							
			C0417	117.0	118.5	1.5	2.26	1.0							
			C0418	118.5	120.0	1.5	1.31	0.8							
			C0419	120.0	121.5	1.5	3.12	5.0							
			C0420	121.5	123.0	1.5	3.34	1.0							
			C0421	123.0	124.5	1.5	3.09	2.4							
			C0422	124.5	126.0	1.5	0.11	NIL							
			C0423	126.0	127.5	1.5	0.03	NIL							
			C0424	127.5	129.0	1.5	2.40	1.9							
			C0425	129.0	132.0	3.0	0.25	0.3							



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-44  
Sheet No. 2

Footage metres / feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
0	10.00	CASING										
0	32.8'											
10.00	49.30	TUFF	C0357	10.0	12.0	2.0	0.03	NIL				
32.8'	161.7'		C0358	12.0	13.5	1.5	0.06	NIL				
		Medium green to grey, massive. Contains small fragments. The fragments are generally smaller than 1/8". Numerous narrow quartz-calcite veins.	C0359	13.5	15.0	1.5	0.01	NIL				
			C0360	15.0	16.5	1.5	0.03	NIL				
			C0361	16.5	18.0	1.5	NIL	NIL				
		Mineralization: The pyrite mineralization occurs as finely disseminated in thin fractures, in clots or in narrow seams. Minor chalcopyrite.	C0362	18.0	19.5	1.5	NIL	NIL				
			C0363	19.5	21.0	1.5	0.10	0.3				
		Pyrite content: 1-8% pyrite except as noted.	C0364	21.0	22.5	1.5	0.31	0.6				
			C0365	22.5	24.0	1.5	0.27	0.7				
			C0366	24.0	25.5	1.5	0.12	0.4				
		10.00 - 21.00: 1-3% pyrite.	C0367	25.5	27.0	1.5	NIL	NIL				
		21.00 - 46.50: 2-8% pyrite.	C0368	27.0	28.5	1.5	0.03	0.2				
			C0369	28.5	30.0	1.5	0.23	0.9				
		31.20 - 31.30: 10% pyrite.	C0370	30.0	31.5	1.5	0.03	0.2				
		34.90 - 35.70: Numerous thin fractures filled up with pyrite-chalcopyrite (<1/8" wide).	C0371	31.5	33.0	1.5	NIL	NIL				
		46.50 - 49.30: Tuff with chloritic fragments (<1/4")	C0372	33.0	34.5	1.5	0.21	0.9				
		Negligible pyrite.	C0373	34.5	36.0	1.5	1.03	1.8				
			C0374	36.0	37.5	1.5	0.05	0.3				
49.30	49.90	SYENITE DYKE	C0375	37.5	39.0	1.5	0.35	1.0				
161.7'	163.7'		C0376	39.0	40.5	1.5	0.01	NIL				
			C0377	40.5	42.0	1.5	0.21	0.7				
49.90	51.20	TUFF	C0378	42.0	43.5	1.5	1.08	1.8				
163.7'	168.0'		C0379	43.5	45.0	1.5	0.24	0.7				
		Same as 46.50 - 49.30. Negligible pyrite.	C0380	45.0	46.5	1.5	0.32	1.4				
			C0381	46.5	49.3	2.8	0.03	NIL				
51.20	59.50	LAPILLI TUFF	C0382	49.3	49.9	0.6	NIL	NIL				
168.0'	195.2'		C0383	49.9	51.2	1.3	0.01	NIL				
		Same as 27.00' - 47.80' in hole 1050-01-32.	C0384	51.2	52.0	0.8	0.19	0.6				
		The lapilli tuff is composed of mafic fragments and some felsic fragments in a felsic matrix. The color of the fragments is dark green and the matrix is light grey. The size of the fragments ranges from 1/16" to 2"	C0385	52.0	53.5	1.5	0.23	0.8				
			C0386	53.5	55.0	1.5	0.05	0.5				
		Contains some agglomerate.	C0387	55.0	56.5	1.5	0.20	1.2				
		Mineralization: same types as above.	C0388	56.5	58.0	1.5	0.23	0.9				
		51.20 - 59.50: 2-8% pyrite.	C0389	58.0	59.5	1.5	0.35	1.0				

**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-44  
Sheet No. 3

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
59.50	144.10	INTERBEDDED TUFF AND LAPILLI TUFF  Same as 59.0 - 84.35 in hole # 1050-01-32. The tuff is medium grey, massive and contains small fragments. The mafic fragments are generally smaller than 1/16". The lapilli tuff has the same composition as the tuff but with larger fragments. The fragments are smaller than 1/8". The mafic tuff is dark green, massive and fine-grained. The mafic tuff may be a mafic flow.  Pyrite content: <1 - 2% pyrite, most of the pyrite is finely disseminated.  59.50 - 65.55: Tuff and minor lapilli tuff. 65.55 - 67.30: Mafic tuff (or mafic flow). 67.30 - 138.50: Tuff and lapilli tuff 67.30 - 68.70: Pyrite-chalcopyrite in thin fractures or disseminated. = 1 - 4% pyrite with < chalcopyrite. 107.50 - 108.70: Pyrite-chalcopyrite in fractures sub-parallel to the core axis. The fractures are 1/8" to 1/4" wide. 10% pyrite-chalcopyrite (70% py, 30% cpy). 114.00 - 115.00: 3-5% pyrite. At 117.00: 1/4" pyrite seam (90% pyrite). 118.10 - 118.50: 6% pyrite; the tuff is brecciated. 119.50 - 119.55: Pyrite seam (60% pyrite). 120.00 - 123.00: 2-4% pyrite. 123.00 - 129.00: 1-3% pyrite. 138.50 - 141.60: Mafic tuff (or mafic flow); negligible pyrite. 141.60 - 144.10: Tuff and lapilli tuff; 1-3% pyrite.	C0390	59.5	61.5	2.0	0.10	0.3					
195.2'	472.8'		C0391	61.5	63.0	1.5	0.01	NIL					
			C0392	63.0	65.55	2.55	0.06	NIL					
			C0393	65.55	67.3	1.75	0.05	NIL					
			C0394	67.3	69.0	1.7	0.28	1.0					
			C0395	69.0	70.5	1.5	0.07	0.2					
			C0396	70.5	72.0	1.5	0.09	NIL					
			C0397	72.0	73.5	1.5	0.03	NIL					
			C0398	73.5	75.0	1.5	0.20	0.3					
			C0399	75.0	78.0	3.0	0.24	0.3					
			C0400	78.0	81.0	3.0	0.17	0.2					
			C0401	81.0	84.0	3.0	0.24	0.4					
			C0402	84.0	87.0	3.0	0.14	0.4					
			C0403	87.0	90.0	3.0	0.34	0.7					
			C0404	90.0	93.0	3.0	0.77	1.2					
			C0405	93.0	96.0	3.0	0.24	0.5					
			C0406	96.0	99.0	3.0	0.49	0.5					
			C0407	99.0	102.0	3.0	0.16	0.4					
			C0408	102.0	105.0	3.0	0.08	0.2					
			C0409	105.0	107.5	2.5	5.49	2.6					
		C0410	107.5	108.7	1.2	13.38	23.0						
		C0411	108.7	109.5	0.8	0.24	0.4						
		C0412	109.5	111.0	1.5	0.27	0.7						
		C0413	111.0	112.5	1.5	0.19	0.6						
		C0414	112.5	114.0	1.5	0.20	0.8						
		C0415	114.0	115.5	1.5	2.68	1.1						
		C0416	115.5	117.0	1.5	0.38	0.6						
		C0417	117.0	118.5	1.5	2.26	1.0						
		C0418	118.5	120.0	1.5	1.31	0.8						
		C0419	120.0	121.5	1.5	3.12	5.0						
		C0420	121.5	123.0	1.5	3.34	1.0						
		C0421	123.0	124.5	1.5	3.09	2.4						
		C0422	124.5	126.0	1.5	0.11	NIL						
144.10	151.65	LAPILLI TUFF  The lapilli tuff is composed of mafic, felsic and 'cherty' fragments in an intermediate to felsic matrix. The size of the fragments ranges from 1/8" to 2". Pyrite content: less than 1% to 4% pyrite.	C0423	126.0	127.5	1.5	0.03	NIL					
472.8'	497.5'		C0424	127.5	129.0	1.5	2.40	1.9					
			C0425	129.0	132.0	3.0	0.25	0.3					
			C0826	132.0	135.0	3.0	0.03	NIL					
			C0827	135.0	138.5	3.5	0.08	NIL					
			C0828	138.5	141.6	3.1	0.03	NIL					
			C0829	141.6	144.1	2.5	0.07	NIL					





AMAX MINERALS EXPLORATION

Ord:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1020  
Hole No: 1020-01-44  
Date: March 4/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.			Rejects Kept
Sample No.	Sample No.	From	To	Width	Au	Ag	Au			
Units		Meters	Meters	Meters	PPM	PPM				
C0357		10.00	12.00	2.00	0.03	Nil				
C0358		12.00	13.50	1.50	0.06	Nil				
C0359		13.5	15.0	1.50	0.01	Nil				
C0360		15.0	16.5	1.50	0.03	Nil				
C0361		16.5	18.0	1.50	Nil	Nil				
C0362		18.0	19.5	1.50	Nil	Nil				
C0363		19.5	21.0	1.50	0.10	0.3				
C0364		21.0	22.5	1.50	0.31	0.6				
C0365		22.5	24.0	1.50	0.27	0.7				
C0366		24.0	25.5	1.50	0.12	0.4				
C0367		25.5	27.0	1.50	Nil	Nil				
C0368		27.0	28.5	1.50	0.03	0.2				
C0369		28.5	30.0	1.50	0.23	0.9				
C0370		30.00	31.5	1.50	0.03	0.2				
C0371		31.50	33.0	1.50	Nil	Nil				
C0372		33.0	34.5	1.50	0.21	0.9				
C0373		34.5	36.0	1.50	0.89 1.03	1.8				
C0374		36.0	37.5	1.50	0.05	0.3				
C0375		37.5	39.0	1.50	0.35	1.0				
C0376		39.0	40.5	1.50	0.01	Nil				
C0377		40.5	42.0	1.50	0.21	0.7				
C0378		42.0	43.5	1.50	1.08 1.03	1.8				
C0379		43.5	45.0	1.50	0.24	0.7				
C0380		45.0	46.5	1.50	0.32	1.4				

AMAX MINERALS EXPLORATION

-2-

Coord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050-C1-44  
 Date: March 4/81

Amax		Lab.		Lab.		Lab.		Lab.		Rejects Kept
Sample No.	Sample No.	Interval From	Interval To	Sample Width	SWASTIKA		Au			
Units		Meters	Meters	Meters	PPM	PPM				
C0381		46.5	49.30	2.80	0.03	NIL				
C0382		49.3	49.90	0.60	NIL	NIL				
C0383		49.9	51.2	1.30	0.01	NIL				
C0384		51.2	52.0	0.80	0.19	0.6				
C0385		52.0	53.5	1.50	0.23	0.8				
C0386		53.5	55.0	1.50	0.05	0.5				
C0387		55.0	56.5	1.50	0.20	1.2				
C0388		56.5	58.0	1.50	0.23	0.9				
C0389		58.0	59.5	1.50	0.35 0.34	1.0				
C0390		59.5	61.5	2.00	0.10	0.3				
C0391		61.5	63.0	1.50	0.01	NIL				
C0392		63.0	65.55	2.55	0.06	NIL				
C0393		65.55	67.30	1.75	0.05	NIL				
C0394		67.3	69.0	1.70	0.28	1.0				
C0395		69.0	70.5	1.50	0.07	0.2				
C0396		70.5	72.0	1.50	0.09	NIL				
C0397		72.0	73.5	1.50	0.03	NIL				
C0398		73.5	75.0	1.50	0.20	0.3				
C0399		75.0	78.0	3.00	0.24	0.3				
C0400		78.0	81.0	3.00	0.17	0.2				
C0401		81.0	84.0	3.00	0.24	0.4				
C0402		84.0	87.0	3.00	0.14	0.4				
C0403		87.0	90.0	3.00	0.34	0.7				
C0404		90.0	93.0	3.00	0.77	1.2				

AMAX MINERALS EXPLORATION

Coord:  
Azimuth:  
Dip:  
Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
Hole No: 1050 01-44  
Date: March 5/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.		Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au		Kept
Units		Meters	Meters	Meters	PPM	PPM			
C0405		93.0	96.0	3.00	0.24	0.5			
C0406		96.0	99.0	3.00	0.49	0.5			
C0407		99.0	102.0	3.00	0.16	0.4			
C0408		102.0	105.0	3.00	0.08	0.2			
* C0409		105.0	107.5	2.50	4.63 5.49	2.6			
C0410		107.5	108.7	1.20	13.35 13.38 12.24	23.0			
C0411		108.7	109.5	0.80	0.24	0.4			
C0412		109.5	111.0	1.50	0.27	0.7			
C0413		111.0	112.5	1.50	0.19	0.6			
C0414		112.5	114.0	1.50	0.20	0.8			
C0415		114.0	115.5	1.50	2.68 2.06 2.26	1.1			
C0416		115.5	117.0	1.50	0.38	0.6			
C0417		117.0	118.5	1.50	2.26	1.0			
C0418		118.5	120.0	1.50	1.31	0.8			
C0419		120.0	121.5	1.50	3.12 3.09	5.0			
C0420		121.5	123.0	1.50	3.34	1.0			
C0421		123.0	124.5	1.50	2.95 3.09 2.06	2.4			
C0422		124.5	126.0	1.50	0.11	NIL			
C0423		126.0	127.5	1.50	0.03	NIL			
C0424		127.5	129.0	1.50	1.84 2.40	1.9			
C0425		129.0	132.0	3.00	0.25	0.3			
C0826		132.00	135.00	3.00	0.03	NIL			
C0827		135.0	138.5	3.50	0.08	NIL			
C0828		138.5	141.6	3.10	0.03	NIL			

\* C0409 GOLD PULP A -> 8.81 } PULP B -> 3.43 } PULP C -> 3.77







AMAX MINERALS EXPLORATION  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-45  
Sheet No. 3

Footages/metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
0	16.00	CASING											
0	52.5'												
16.00	27.60	AGGLOMERATE	C0837	16.0	17.5	1.5	0.23	0.7					
52.5'	90.6'		C0838	17.5	19.0	1.5	0.06	0.2					
		The agglomerate is composed of felsic and mafic fragments in an intermediate matrix. The color of the felsic fragments is light grey. The mafic fragments are dark green and the matrix is light to medium green. The size of the fragments ranges from 1/16" to 5".  Mineralization: The agglomerate is mineralized with pyrite. The pyrite occurs as finely disseminated, in thin fractures, in clots, or in narrow seams. Pyrite content: 1-6% pyrite.	C0839	19.0	20.5	1.5	0.04	NIL					
			C0840	20.5	22.0	1.5	0.03	0.2					
			C0841	22.0	23.5	1.5	0.03	0.2					
			C0842	23.5	25.0	1.5	0.03	0.2					
			C0843	25.0	26.5	1.5	0.03	0.2					
			C0844	26.5	27.6	1.1	NIL	NIL					
27.60	32.50	LAPILLI TUFF	C0845	27.6	30.0	2.4	0.03	NIL					
90.6'	106.6'		C0846	30.0	32.5	2.5	NIL	NIL					
		The lapilli tuff is composed of 'chloritic' mafic fragments in a mafic matrix. The size of the fragments ranges from 1/16" to 1". The average size is 1/8" - 3/16". Pyrite content: <1% - 2% pyrite.											
32.50	36.00	LAPILLI TUFF	C0847	32.5	34.2	1.7	0.03	0.3					
106.6'	118.1'		C0848	34.2	36.0	1.8	0.10	0.2					
		The lapilli tuff is composed of mafic and felsic fragments in a felsic matrix. The mafic fragments are dark green, the felsic fragments are light grey, and the matrix is medium grey. The size of the fragments ranges from 1/16" to 1". Pyrite content: 1-4%.											
36.00	55.60	TUFF	C0849	36.0	39.0	3.0	0.10	0.2					
118.1'	182.4'		C0850	39.0	42.0	3.0	0.03	NIL					
		The tuff is composed of small felsic fragments (less than 1/8"), mostly feldspars, in an intermediate matrix.  Pyrite content: < 1% - 1% pyrite.	C0851	42.0	45.0	3.0	0.03	NIL					
			C0852	45.0	48.0	3.0	0.01	NIL					
			C0853	48.0	51.0	3.0	0.02	NIL					
			C0854	51.0	52.5	1.5	0.14	NIL					
			C0855	52.5	54.0	1.5	0.31	NIL					
			C0856	54.0	55.6	1.6	0.02	NIL					







AMAX MINERALS EXPLORATION

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Cord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 050  
 Hole No: 1050-01-45  
 Date: 7 March 7/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.			Rejects Kept
Sample No.	Sample No.	From	To	Width	Au	Ag	Au			
Units		Meters	Meters	Meters	PPM	PPM				
C0837		16.0	17.5	1.50	0.23	0.7				
C0838		17.5	19.0	1.50	0.06	0.2				
C0839		19.0	20.5	1.50	0.04	NIL				
C0840		20.5	22.0	1.50	0.03	0.2				
C0841		22.0	23.5	1.50	0.03	0.2				
C0842		23.5	25.0	1.50	0.03	0.2				
C0843		25.0	26.5	1.50	0.03	0.2				
C0844		26.5	27.6	1.10	NIL	NIL				
C0845		27.6	30.0	2.40	0.03	NIL				
C0846		30.0	32.5	2.50	NIL	NIL				
C0847		32.5	34.2	1.70	0.03	0.3				
C0848		34.2	36.0	1.80	0.10	0.2				
C0849		36.0	39.0	3.00	0.10	0.2				
C0850		39.0	42.0	3.00	0.03	NIL				
C0851		42.0	45.0	3.00	0.03	NIL				
C0852		45.0	48.0	3.00	0.01	NIL				
C0853		48.0	51.0	3.00	0.02	NIL				
C0854		51.0	52.5	1.50	0.14	NIL				
C0855		52.5	54.0	1.50	0.31	NIL				
C0856		54.0	55.6	1.60	0.02	NIL				
C0857		55.6	57.0	1.40	0.10	0.3				
C0858		57.0	58.5	1.50	0.51	0.2				
C0859		58.5	60.0	1.50	0.08	0.3				
C0860		60.0	61.5	1.50	0.09	0.2				

AMAX MINERALS EXPLORATION

Cord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1036  
 Hole No: 1036-01-45  
 Date: March 7/81

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.				Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au				Kept
Units		Meters	Meters	Meters	PPM	PPM					
C0861		61.5	63.0	1.50	0.20	0.6					
C0862		63.0	64.5	1.50	8.85 8.92	2.7					
C0863		64.5	66.0	1.50	0.10	0.3					
* C0864		66.0	67.5	1.50	7.96 6.52	2.0					
C0865		67.5	69.0	1.50	0.04	NIL					
C0866		69.0	71.4	2.40	0.01	NIL					
C0867		71.4	73.5	2.10	0.01	NIL					
C0868		73.5	75.0	1.50	0.05	0.3					
C0869		75.0	76.5	1.50	NIL	NIL					
C0870		76.5	78.0	1.50	NIL	NIL					
C0871		78.0	79.5	1.50	0.07	0.4					
C0872		79.5	81.0	1.50	0.01	NIL					
C0873		81.0	82.5	1.50	0.01	0.2					
C0874		82.5	84.0	1.50	0.03	0.3					
C0875		84.0	86.3	2.30	0.04	NIL					
C0876		86.3	88.0	1.70	0.06	NIL					
C0877		88.0	89.5	1.50	1.59 1.37 1.03	0.2					
C0878		89.5	91.2	1.70	0.96	0.3					
C0879		91.2	93.5	2.30	NIL	NIL					
C0880		93.5	95.4	1.90	NIL	NIL					
C0881		95.4	97.5	2.10	0.05	NIL					
C0882		97.5	99.0	1.50	0.03	NIL					
C0883		99.0	100.5	1.50	0.03	NIL					
C0884		100.5	102.0	1.50	0.05	NIL					

\* C0864

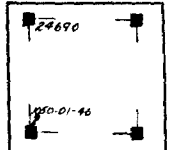
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**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-46

Collar Elevation: 4,964'

Hole No. 1050-01-46 Sheet 1	Length 159.30 metres	Commenced March 5, 1981	Dip: Collar -45°	Location Sketch  North ↑ Claim No. 24690 Scale: 1" = 1320'
Property Mirado (1050-01)	Bearing S35°W	Completed March 7, 1981	Etch Test	
Township Catharine	Dip -45°	Drilling Co. St-Lambert	Depth Rdg. True	
Location L - O+54E at O+01N (Section 'G')	Objective To test mineralization in the south zone.	Core Size BQ	1 60m 50.5° 42° 2 120m 49° 40° 3 159.3m 45° 36.5°	
Logged By G. Tremblay		Casing Left/Lost in Hole None		
Core Location Timmins				

Remarks Core Specimens: 18.0, 24.0, 36.0, 56.7, 59.2, 63.0, 67.4, 72.0, 77.9, 95.5, 100.7, 112.8, 119.7, 127.6, 132.8, 144.0, 156.0.

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm			
From	To										
0	14.30	CASING									
0	46.9'										
14.30	46.90	LAPILLI TUFF	C0898	14.5	16.5	2.2	0.03	NIL			
46.9'	153.9'		C0899	16.5	18.0	1.5	0.03	0.2			
			C0900	18.0	19.5	1.5	0.03	NIL			
			C0901	19.5	21.0	1.5	0.03	NIL			
			C0902	21.0	22.5	1.5	0.04	0.2			
46.90	48.80	TUFF	C0903	22.5	24.0	1.5	0.21	NIL			
153.9'	160.1'		C0904	24.0	25.5	1.5	0.56	0.3			
			C0905	25.5	27.0	1.5	0.49	0.3			
48.80	57.40	LAPILLI TUFF	C0906	27.0	28.5	1.5	0.41	0.2			
160.1'	188.3'		C0907	28.5	30.0	1.5	3.09	0.4			
			C0908	30.0	31.5	1.5	0.56	0.3			
57.40	58.10	TUFF	C0909	31.5	33.0	1.5	0.47	NIL			
188.3'	190.6'		C0910	33.0	34.5	1.5	0.16	NIL			
			C0911	34.5	36.0	1.5	0.80	NIL			
58.10	61.20	AGGLOMERATE	C0912	36.0	37.5	1.5	0.63	NIL			
190.6'	200.8'		C0913	37.5	39.0	1.5	0.10	NIL			
			C0914	39.0	40.0	1.5	0.47	NIL			
61.20	63.30	TUFF	C0915	40.5	42.0	1.5	0.30	NIL			
200.8'	207.7'		C0916	42.0	43.5	1.5	0.51	NIL			
			C0917	43.5	45.0	1.5	1.06	NIL			
63.30	69.00	LAPILLI TUFF	C0918	45.0	46.9	1.9	0.32	NIL			
207.7'	226.4'		C0919	46.9	48.8	1.9	0.04	NIL			
			C0920	48.8	50.5	1.7	0.10	NIL			
69.00	74.55	TUFF	C0921	50.5	52.0	1.5	0.05	NIL			
226.4'	244.6'		C0922	52.0	53.5	1.5	0.04	NIL			
			C0923	53.5	55.0	1.5	0.04	NIL			
74.55	86.80	LAPILLI TUFF	C0924	55.0	56.5	1.5	0.12	NIL			
244.6'	284.8'		C0925	56.5	57.4	0.9	0.11	NIL			

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-46  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
86.80	88.80	TUFF											
284.8'	291.3'		C0926	57.4	58.1	0.7	0.03	NIL					
			C0927	58.1	59.6	1.5	0.32	0.3					
88.80	110.00	LAPILLI TUFF	C0928	59.6	61.2	1.6	0.40	0.6					
291.3'	360.9'		C0929	61.2	63.3	2.1	0.03	NIL					
			C0930	63.3	64.5	1.2	1.33	0.5					
110.00	117.00	AGGLOMERATE	C0931	64.5	66.0	1.5	1.37	0.2					
360.9'	383.9'		C0932	66.0	67.5	1.5	19.89	1.2					
			C0933	67.5	69.0	1.5	0.85	NIL					
117.00	124.20	LAPILLI TUFF	C0934	69.0	70.0	1.5	0.06	NIL					
383.9'	407.5'		C0935	70.5	72.0	1.5	0.03	NIL					
			C0936	72.0	74.55	2.55	0.10	NIL					
124.20	132.20	BASALT FLOW	C0937	74.55	76.5	1.95	9.95	0.5					
407.5'	433.7'		C0938	76.5	78.0	1.5	1.02	NIL					
			C0939	78.0	79.5	1.5	1.07	0.3					
132.20	136.80	TUFF	C0940	79.5	81.0	1.5	0.58	0.3					
433.7'	448.8'		C0941	81.0	82.5	1.5	0.07	NIL					
			C0942	82.5	84.0	1.5	0.06	NIL					
136.80	159.30	LAPILLI TUFF	C0943	84.0	85.5	1.5	0.03	0.2					
448.8'	522.6'		C0944	85.5	86.8	1.3	0.04	0.3					
			C0945	86.8	88.8	2.0	0.01	NIL					
	159.30	END OF HOLE	C0946	88.8	90.0	1.2	0.05	NIL					
	522.6'		C0947	90.0	91.5	1.5	0.03	0.2					
			C0948	91.5	93.0	1.5	0.03	NIL					
			C0949	93.0	94.5	1.5	0.03	NIL					
			C0950	94.5	96.0	1.5	0.04	0.2					
			C0951	96.0	97.5	1.5	0.01	NIL					
			C0952	97.5	99.0	1.5	0.02	NIL					
			C0953	99.0	100.5	1.5	0.03	NIL					
			C0954	100.5	102.5	1.5	0.30	0.4					
			C0955	102.0	103.5	1.5	0.27	NIL					
			C0956	103.5	105.0	1.5	0.06	NIL					
			C0957	105.0	106.5	1.5	0.08	NIL					
			C0958	106.5	108.0	1.5	0.12	NIL					
			C0959	108.0	109.5	1.5	24.70	2.8					
			C0960	109.5	111.0	1.5	0.98	0.3					
			C0961	111.0	112.5	1.5	1.81	0.3					
			C0962	112.5	114.0	1.5	0.27	0.2					
			C0963	114.0	115.5	1.5	0.10	NIL					
			C0964	115.5	117.0	1.5	0.03	NIL					

**AMAX MINERALS EXPLORATION**  
 (A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-46  
 Sheet No. 2A

Footage - Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
			C0965	117.0	118.5	1.5	0.15	NIL				
			C0966	118.5	120.0	1.5	0.04	NIL				
			C0967	120.0	121.5	1.5	0.08	NIL				
			C0968	121.5	123.0	1.5	2.40	0.4				
			C0969	123.0	124.2	1.2	0.27	NIL				
			C0970	124.5	127.0	2.8	NIL	NIL				
			C0971	127.0	130.0	3.0	0.06	NIL				
			C0972	130.0	132.2	2.2	0.03	NIL				
			C0973	132.2	133.5	1.3	0.04	NIL				
			C0974	133.5	135.0	1.5	NIL	NIL				
			C0975	135.0	136.8	1.8	NIL	NIL				
			C0976	136.8	138.0	1.2	NIL	NIL				
			C0977	138.0	139.5	1.5	NIL	NIL				
			C0978	139.5	141.0	1.5	0.21	0.2				
			C0979	141.0	142.5	1.5	0.02	NIL				
			C0980	142.5	144.0	1.5	0.01	NIL				
			C0981	144.0	145.5	1.5	0.06	NIL				
			C0982	145.5	147.0	1.5	0.14	NIL				
			C0982	147.0	148.5	1.5	0.99	0.2				
			C0984	148.5	150.0	1.5	0.71	0.2				
			C0985	150.0	151.5	1.5	0.12	0.3				
			C0986	151.5	153.0	1.5	0.03	NIL				
			C0987	153.0	154.5	1.5	0.03	NIL				
			C0988	154.5	156.0	1.5	0.01	NIL				
			C0989	156.0	157.5	1.5	0.02	NIL				
			C0990	157.5	159.3	1.8	0.03	NIL				





**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-46  
Sheet No. 4

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
61.20 200.8'	63.30 207.7'	TUFF	C0929	61.2	63.3	2.1	0.03	NIL					
		The tuff is dark green and massive. Contains small feldspar fragments (< 1/8") in a mafic matrix. Pyrite content: negligible.											
63.30 207.7'	69.00 226.4'	LAPILLI TUFF	C0930	63.3	64.5	1.2	1.33	0.5					
		Same as 48.80 - 57.40. Pyrite content: 1-5% pyrite.	C0931	64.5	66.0	1.5	1.37	0.2					
			C0932	66.0	67.5	1.5	19.89	1.2					
			C0933	67.5	69.0	1.5	0.85	NIL					
69.00 226.4'	74.55 244.6'	TUFF	C0934	69.0	70.0	1.5	0.06	NIL					
		The tuff is medium green. Contains small fragments, generally smaller than 1/8". Pyrite content: < 1 - 2% pyrite.	C0935	70.5	72.0	1.5	0.03	NIL					
			C0936	72.0	74.55	2.55	0.10	NIL					
74.55 244.6'	86.80 284.8'	LAPILLI TUFF	C0937	74.55	76.5	1.95	9.95	0.5					
		The lapilli tuff is composed of mostly mafic and some felsic fragments in an intermediate to felsic matrix. The size of the fragments ranges from 1/16" to 3". Contains some agglomerate. This section is heavily mineralized with pyrite in fractures, in clots, or disseminated.	C0938	76.5	78.0	1.5	1.02	NIL					
			C0939	78.0	79.5	1.5	1.07	0.3					
			C0940	79.5	81.0	1.5	0.58	0.3					
			C0941	81.0	82.5	1.5	0.07	NIL					
			C0942	82.5	84.0	1.5	0.06	NIL					
			C0943	84.0	85.5	1.5	0.03	0.2					
			C0944	85.5	86.8	1.3	0.04	0.3					
		74.55 - 81.00: 3-15% pyrite. 81.00 - 86.80: 1-6% pyrite.											
86.80 284.8'	88.80 291.3'	TUFF	C0945	86.8	88.8	2.0	0.01	NIL					
		The tuff is dark green and mafic. Contains small chloritic fragments in a mafic matrix. The fragments are smaller than 1/8". Pyrite content: 1-3%.											
88.80 291.3'	110.00 360.9'	LAPILLI TUFF	C0946	88.8	90.0	1.2	0.05	NIL					
		Same as 74.55 - 86.80; contains some agglomerate. Pyrite content: 2-6% pyrite.	C0947	90.0	91.5	1.5	0.03	0.2					
			C0948	91.5	93.0	1.5	0.03	NIL					
			C0949	93.0	94.5	1.5	0.03	NIL					
			C0950	94.5	96.0	1.5	0.04	0.2					
		106.30 - 106.80: tuff	C0951	96.0	97.5	1.5	0.01	NIL					
			C0952	97.5	99.0	1.5	0.02	NIL					

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-46  
Sheet No. 5

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
110.00	117.00	AGGLOMERATE	C0953	99.0	100.5	1.5	0.03	NIL					
360.9'	383.9'		C0954	100.5	102.5	1.5	0.30	0.4					
		Same as the lapilli tuff in 88.80 to 110.00, but with larger fragments.	C0955	102.0	103.5	1.5	0.27	NIL					
		Pyrite content: 2-8%.	C0956	103.5	105.0	1.5	0.06	NIL					
			C0957	105.0	106.5	1.5	0.08	NIL					
117.00	124.20	LAPILLI TUFF	C0958	106.5	108.0	1.5	0.12	NIL					
383.9'	407.5'		C0959	108.0	109.5	1.5	24.70	2.8					
		Same as 88.80 - 110.00.	C0960	109.5	111.0	1.5	0.98	0.3					
		Pyrite content: 2-6%.	C0961	111.0	112.5	1.5	1.81	0.3					
			C0962	112.5	114.0	1.5	0.27	0.2					
124.20	132.20	BASALT FLOW	C0963	114.0	115.5	1.5	0.10	NIL					
407.5'	433.7'		C0964	115.5	117.0	1.5	0.03	NIL					
		Fine-grained, dark green, highly chloritic, and massive. Numerous narrow quartz-calcite veins cut the basalt in all directions.	C0965	117.0	118.5	1.5	0.15	NIL					
		Negligible pyrite: < 1 - 1%.	C0966	118.5	120.0	1.5	0.04	NIL					
			C0967	120.0	121.5	1.5	0.08	NIL					
132.20	136.80	TUFF	C0968	121.5	123.0	1.5	2.40	0.4					
433.7'	448.8'		C0969	123.0	124.2	1.2	0.27	NIL					
		Fine-grained and massive. Pyrite content: 1-3% pyrite.	C0970	124.5	127.0	2.8	NIL	NIL					
			C0971	127.0	130.0	3.0	0.06	NIL					
			C0972	130.0	132.2	2.2	0.03	NIL					
		135.85 - 136.15: Basalt flow.	C0973	132.2	133.5	1.3	0.04	NIL					
			C0974	133.5	135.0	1.5	NIL	NIL					
136.80	159.30	LAPILLI TUFF	C0975	135.0	136.8	1.8	NIL	NIL					
448.8'	522.6'		C0976	136.8	138.0	1.2	NIL	NIL					
		Lapilli tuff is composed of mafic fragments in a felsic matrix. The size of the fragments ranges from 1/16" to 3/4".	C0977	138.0	139.5	1.5	NIL	NIL					
		Pyrite content: 1-2%, except as noted.	C0978	139.5	141.0	1.5	0.21	0.2					
			C0979	141.0	142.5	1.5	0.02	NIL					
			C0980	142.5	144.0	1.5	0.01	NIL					
		140.00 - 141.20: 2-6% pyrite.	C0981	144.0	145.5	1.5	0.06	NIL					
		140.20 - 140.35: 10% pyrite.	C0982	145.5	147.0	1.5	0.14	NIL					
			C0982	147.0	148.5	1.5	0.99	0.2					
			C0984	148.5	150.0	1.5	0.71	0.2					
159.30	END OF HOLE		C0985	150.0	151.5	1.5	0.12	0.3					
522.6'			C0986	151.5	153.0	1.5	0.03	NIL					
			C0987	153.0	154.5	1.5	0.03	NIL					
			C0988	154.5	156.0	1.5	0.01	NIL					
			C0989	156.0	157.5	1.5	0.02	NIL					
			C0990	157.5	159.3	1.8	0.03	NIL					

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Co-ord:  
Azimuth:  
Dip:  
Elev:

Project No: 1050  
Hole No: 1050-01-46  
Date: March 11/81

Amax		Lab.					Lab.				
Sample No.	Sample No.	Interval		Sample Width	SWASTIKA		Au				Rejects Kept
		From	To		Au	Ag					
Units		Meters	Meters	Meters	PPM	PPM					
C0898		14.3	16.5	2.20	0.03	NIL					
C0899		16.5	18.0	1.50	0.03	0.2					
C0900		18.0	19.5	1.50	0.03	NIL					
C0901		19.5	21.0	1.50	0.03	NIL					
C0902		21.0	22.5	1.50	0.04	0.2					
C0903		22.5	24.0	1.50	0.21	NIL					
C0904		24.0	25.5	1.50	0.56	0.3					
C0905		25.5	27.0	1.50	0.49	0.3					
C0906		27.0	28.5	1.50	0.41	0.2					
C0907		28.5	30.0	1.50	2.51 3.09	0.4					
C0908		30.0	31.5	1.50	0.56	0.3					
C0909		31.5	33.0	1.50	0.47	NIL					
C0910		33.0	34.5	1.50	0.16	NIL					
C0911		34.5	36.0	1.50	0.80	NIL					
C0912		36.0	37.5	1.50	0.63	NIL					
C0913		37.5	39.0	1.50	0.10	NIL					
C0914		39.0	40.5	1.50	0.47	NIL					
C0915		40.5	42.0	1.50	0.30	NIL					
C0916		42.0	43.5	1.50	0.51	NIL					
C0917		43.5	45.0	1.50	1.06	NIL					
C0918		45.0	46.9	1.90	0.32	NIL					
C0919		46.9	48.8	1.90	0.04	NIL					
C0920		48.8	50.5	1.70	0.10	NIL					
C0921		50.5	52.0	1.50	0.05	NIL					

\* C0907

C-82  
0-80

AMAX MINERALS EXPLORATION

ASSAY SUMMARY SHEET

Project No: 1050  
Hole No: 1050-01-46  
Date: March 11/81

Order:  
Azimuth:  
Dip:  
Elev:

Amax Sample No.	Lab. Sample No.	Interval		Sample Width	SWASTIKA		Lab.				Rejects Kept
		From	To		Au	Ag	Au				
Units		Meters	Meters	Meters	PPM	PPM					
C0922		52.0	53.5	1.50	0.04	NIL					
C0923		53.5	55.0	1.50	0.04	NIL					
C0924		55.0	56.5	1.50	0.12	NIL					
C0925		56.5	57.4	0.90	0.11	NIL					
C0926		57.4	58.1	0.70	0.03	NIL					
C0927		58.1	59.6	1.50	0.32	0.3					
C0928		59.6	61.2	1.60	0.40	0.6					
C0929		61.2	63.3	2.10	0.03	NIL					
C0930		63.3	64.5	1.20	1.33	0.5					
C0931		64.5	66.0	1.50	1.37	0.2					
C0932		66.0	67.5	1.50	17.84 19.89	1.2					
C0933		67.5	69.0	1.50	0.85	NIL					
C0934		69.0	70.5	1.50	0.06	NIL					
C0935		70.5	72.0	1.50	0.03	NIL					
C0936		72.0	74.55	2.55	0.10	NIL					
C0937		74.55	76.5	1.95	9.95 7.55	0.5					
C0938		76.5	78.0	1.50	1.02	NIL					
C0939		78.0	79.5	1.50	1.07	0.3					
C0940		79.5	81.0	1.50	0.58	0.3					
C0941		81.0	82.5	1.50	0.07	NIL					
C0942		82.5	84.0	1.50	0.06	NIL					
C0943		84.0	85.5	1.50	0.03	0.2					
C0944		85.5	86.8	1.30	0.04	0.3					
C0945		86.8	88.8	2.00	0.01	NIL					

AMAX MINERALS EXPLORATION

Co-ord:  
 Azimuth:  
 Dip:  
 Elev:

ASSAY SUMMARY SHEET

Project No: 1050  
 Hole No: 1050 CI-46  
 Date: March 11/81.

Amax	Lab.	Interval		Sample	SWASTIKA		Lab.			Rejects
Sample No.	Sample No.	From	To	Width	Au	Ag	Au			Kept
Units		Metres	Metres	Metres	PPM	PPM				
C0946		88.8	90.0	1.20	0.05	NIL				
C0947		90.0	91.5	1.50	0.03	0.2				
C0948		91.5	93.0	1.50	0.03	NIL				
C0949		93.0	94.5	1.50	0.03	NIL				
C0950		94.5	96.0	1.50	0.04	0.2				
C0951		96.0	97.5	1.50	0.01	NIL				
C0952		97.5	99.0	1.50	0.02	NIL				
C0953		99.0	100.5	1.50	0.03	NIL				
C0954		100.5	102.0	1.50	0.30	0.4				
C0955		102.0	103.5	1.50	0.27	NIL				
C0956		103.5	105.0	1.50	0.06	NIL				
C0957		105.0	106.5	1.50	0.08	NIL				
C0958		106.5	108.0	1.50	0.12	NIL				
C0959		108.0	109.5	1.50	24.70 24.01	2.8				
C0960		109.5	111.0	1.50	0.98	0.3				
* C0961		111.0	112.5	1.50	1.81 1.77 1.87	0.3				
C0962		112.5	114.0	1.50	0.27	0.2				
C0963		114.0	115.5	1.50	0.10	NIL				
C0964		115.5	117.0	1.50	0.03	NIL				
C0965		117.0	118.5	1.50	0.15	NIL				
C0966		118.5	120.0	1.50	0.04	NIL				
C0967		120.0	121.5	1.50	0.08	NIL				
* C0968		121.5	123.0	1.50	2.23 2.40	0.4				
C0969		123.0	124.2	1.20	0.27	NIL				

\* C0968

3.22  
2.50













**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-48  
Sheet No. 2

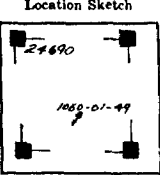
Footage metres/feet		DESCRIPTION	Sample No.	From	To (metres)	Length	Au ppm	Ag ppm				
From	To											
0	15.75	CASING										
0	51.7'											
15.75	43.90	LAPILLI TUFF										
51.7'	144.0'											
		Greenish grey, massive. Fine-grained matrix with numerous angular mafic fragments up to 3/4", mainly about 1/4".	C1480	15.75	18.0	2.25	0.04					
		1 - 2% pyrite, disseminated. Not carbonated.	C1481	18.0	21.0	3.0	0.01					
			C1482	21.0	24.0	3.0	NIL					
			C1483	24.0	27.0	3.0	0.01					
43.90	62.80	INTERMEDIATE CRYSTAL TUFF	C1484	27.0	30.0	3.0	0.01					
144.0'	206.0'			C1485	30.0	33.0	3.0	0.01				
		Light greenish grey. Fine-grained, massive. Grades from above to 46.0 metres. Not carbonated. 1-3% finely disseminated pyrite.	C1486	33.0	36.0	3.0	0.01					
			C1487	36.0	39.0	3.0	0.02					
			C1488	39.0	42.0	3.0	0.01					
		44.30 - 47.10: Broken, slightly rusty zone. Strong jointing @ 0 - 15°, nearly parallel to core axis.	C1489	42.0	45.0	3.0	0.02					
		52.40 - 52.70: Strong slightly rusty joint @ 10 - 15°.	C1490	45.0	48.0	3.0	0.01					
		54.30 - 54.70: Strong slightly rusty joint @ 10 - 15°.	C1491	48.0	51.0	3.0	0.01					
			C1492	51.0	54.0	3.0	0.01					
			C1493	54.0	57.0	3.0	0.01					
62.80	72.60	LAPILLI TUFF	C1494	57.0	60.0	3.0	0.05					
206.0'	238.1'			C1495	60.0	63.0	3.0	NIL				
		Light greenish grey. Fine-grained matrix with numerous mafic fragments up to 1/4". Occasional larger intermediate to mafic fragments. Not carbonated. 1-2% finely disseminated pyrite.	C1496	63.0	66.0	3.0	NIL					
			C1497	66.0	69.0	3.0	0.02					
			C1498	69.0	72.6	3.6	0.01					
72.60	78.00	INTERMEDIATE CRYSTAL TUFF										
238.1'	255.8'											
		Sharp upper contact @ 50°. Medium green. Not carbonated; fine-grained, massive, negligible pyrite.	C1499	72.6	75.0	2.4	0.01					
			C1500	75.0	78.0	3.0	0.03					
			C1501	78.0	81.0	3.0	0.06					
78.00	120.00	LAPILLI TUFF										
255.8'	393.6'											
		As 62.8 - 72.6. 1-2% finely disseminated pyrite.	C1502	81.0	84.0	3.0	0.01					
		109.5 - 110.2: Sheared and altered zone @ 35° with amphibole and chloritic alterations and calcite seams, parallel foliation. 5-6% disseminated pyrite and in seams parallel foliation.	C1503	84.0	87.0	3.0	0.03					
			C1504	87.0	90.0	3.0	0.01					
			C1505	90.0	93.0	3.0	NIL					
			C1506	93.0	96.0	3.0	0.01					
		109.85 - 110.00: Barren pink calcite veinlets with chlorite.	C1507	96.0	99.0	3.0	0.01					
			C1508	99.0	102.0	3.0	0.03					



**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Collar Elevation: 4,969'

Hole No. 1050-01-49

Hole No. 1050-01-49 Sheet 1	Length 279 metres	Commenced March 24, 1981	Dip: Collar -45°	Location Sketch 
Property Mirado (1050-01)	Bearing S35°W	Completed March 28, 1981	Etch Test	
Township Catharine	Dip -45°	Drilling Co. St-Lambert	Depth Rdg. True	
Location L - 4+17E at 3+81N (Section M)	Objective To test south zone.	Core Size BQ	1 60m 48.5° 40°	
Logged By G. Tremblay		Casing Left/Lost in Hole None	2 120m 43.5° 35°	
Core Location Timmins			3 180m 43.5° 35°	
			4 276m 36.5° 29°	

Remarks Core Specimens: 24.5, 35.6, 45.5, 64.5, 67.5, 74.9, 85.5, 97.6, 111.0, 112.7, 123.0, 134.4, 145.8, 152.7, 166.5, 178.1, 190.4, 197.2, 207.3, 213.0, 228.0, 237.1, 255.0, 261.0, 264.0, 268.5, 278.9

From	To	DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm
0	18.30	CASING						
0	60.0'							
18.30	31.10	TUFF WITH MINOR LAPILLI TUFF	C1517	18.3	21.0	2.7	0.20	
60.0'	102.0'		C1518	21.0	24.0	3.0	0.08	
			C1519	24.0	27.0	3.0	0.07	
			C1520	27.0	31.1	4.1	0.06	
31.10	32.30	SYENITE DYKE	C1521	31.1	32.3	1.2	0.02	
102.0'	106.0'		C1522	32.3	36.0	3.7	0.06	
			C1523	36.0	39.0	3.0	0.22	
			C1524	39.0	42.0	3.0	0.33	
32.30	75.80	TUFF WITH MINOR LAPILLI TUFF	C1525	42.0	45.0	3.0	0.22	
106.0'	248.7'		C1526	45.0	46.5	1.5	2.06	
			C1527	46.5	48.0	1.5	1.53	
			C1528	48.0	49.5	1.5	0.48	
75.80	107.65	TUFF	C1529	49.5	51.0	1.5	0.70	
248.7'	353.2'		C1530	51.0	52.5	1.5	1.38	
			C1531	52.5	54.0	1.5	1.23	
			C1532	54.0	55.5	1.5	0.16	
107.65	111.20	MAFIC DYKE	C1533	55.5	57.0	1.5	0.47	
353.2'	364.8'		C1534	57.0	60.0	3.0	0.30	
			C1535	60.0	63.0	3.0	0.37	
			C1536	63.0	66.0	3.0	0.10	
111.20	120.40	LAPILLI TUFF	C1537	66.0	69.0	3.0	0.51	
364.8'	395.0'		C1538	69.0	72.0	3.0	0.10	
			C1539	72.0	75.0	3.0	0.04	
			C1540	75.0	78.0	3.0	0.07	
120.40	124.60	TUFF	C1541	78.0	81.0	3.0	0.10	
395.0'	408.8'		C1542	81.0	84.0	3.0	0.10	
			C1543	84.0	87.0	3.0	0.10	
			C1544	87.0	90.0	3.0	0.07	
124.60	129.70	MAFIC DYKE						
408.8'	425.5'							
129.70	132.10	TUFF						
425.5'	433.4'							



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-49  
 Sheet No. 3A

Footage - Metres		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
			C1623	258.0	259.5	1.5	0.35					
			C1624	259.5	260.85	1.35	0.04					
			C1625	260.85	262.5	1.65	0.14					
			C1626	262.5	264.3	1.8	0.02					
			C1627	264.3	265.5	1.2	0.06					
			C1628	265.5	267.0	1.5	4.63					
			C1629	267.0	268.5	1.5	5.59					
			C1630	268.5	270.0	1.5	0.11					
			C1631	270.0	271.5	1.5	0.03					
			C1632	271.2	273.0	1.5	0.11					
			C1633	273.0	274.5	1.5	0.03					
			C1634	274.5	276.0	1.5	0.16					
			C1635	276.0	277.5	1.5	0.27					
			C1636	277.5	279.0	1.5	0.04					



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-49  
Sheet No. 4

Footage metres/feet		DESCRIPTION	Sample No.	From	To (metres)	Length	Au ppm	Ag ppm				
From	To											
0	18.30	CASING										
0	60.0'											
18.30	31.10	TUFF WITH MINOR LAPILLI TUFF	C1517	18.3	21.0	2.7	0.20					
60.0'	102.0'		C1518	21.0	24.0	3.0	0.08					
		The tuff is greenish grey and massive. Contains feldspar fragments smaller than 1/8".	C1519	24.0	27.0	3.0	0.07					
		The lapilli tuff has the same composition as the tuff and contains scattered 'chloritic' fragments ranging in size from 1/8" to 1".	C1520	27.0	31.1	4.1	0.06					
		Mineralization: Negligible pyrite.										
31.10	32.30	SYENITE DYKE	C1521	31.1	32.3	1.2	0.02					
102.0'	106.0'	Same as in previous holes.										
32.30	75.80	TUFF WITH MINOR LAPILLI TUFF	C1522	32.3	36.0	3.7	0.06					
106.0'	248.7'		C1523	36.0	39.0	3.0	0.22					
		Same as 18.30 - 31.10. Negligible pyrite except as noted:	C1524	39.0	42.0	3.0	0.33					
		45.00 - 57.80: 1-5% pyrite.	C1525	42.0	45.0	3.0	0.22					
		The pyrite occurs as finely disseminated, or in thin fractures.	C1526	45.0	46.5	1.5	2.06					
		53.75 - 53.90: 8% pyrite-chalcopyrite, in fractures.	C1527	46.5	48.0	1.5	1.53					
		66.00 - 70.00: The tuff is silicified (1-3% pyrite).	C1528	48.0	49.5	1.5	0.48					
			C1529	49.5	51.0	1.5	0.70					
			C1530	51.0	52.5	1.5	1.38					
75.80	107.65	TUFF	C1531	52.5	54.0	1.5	1.23					
248.7'	353.2'		C1532	54.0	55.5	1.5	0.16					
		Same as 18.30 - 31.10. Negligible pyrite (<1 - 2% pyrite) with erratic chalcopyrite.	C1533	55.5	57.0	1.5	0.47					
			C1534	57.0	60.0	3.0	0.30					
			C1535	60.0	63.0	3.0	0.37					
			C1536	63.0	66.0	3.0	0.10					
107.65	111.20	MAFIC DYKE	C1537	66.0	69.0	3.0	0.51					
353.2'	364.8'		C1538	69.0	72.0	3.0	0.10					
		As in previous holes. Dark green, fine-grained and massive. Sharp upper and lower contacts.	C1539	72.0	75.0	3.0	0.04					
		May be a mafic flow.	C1540	75.0	78.0	3.0	0.07					
			C1541	78.0	81.0	3.0	0.10					
			C1542	81.0	84.0	3.0	0.10					
			C1543	84.0	87.0	3.0	0.10					
			C1544	87.0	90.0	3.0	0.07					
			C1545	90.0	93.0	3.0	0.11					
			C1546	93.0	96.0	3.0	0.16					

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-49  
Sheet No. 5

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
111.20	120.40	LAPILLI TUFF	C1547	96.0	99.0	3.0	0.17					
364.8'	395.0'		C1548	99.0	102.0	3.0	0.23					
		The lapilli tuff is composed of mafic fragments in a felsic matrix. The color of the fragments is dark green and the matrix is light grey.	C1549	102.0	105.0	3.0	0.09					
		The size of the fragments ranges from 1/16" to 3"; the average size is 1/2" - 3/4".	C1550	105.0	107.65	2.65	0.20					
			C1551	107.65	111.2	3.55	0.06					
			C1552	111.2	112.5	1.3	0.13					
			C1553	112.5	114.0	1.5	0.14					
		Mineralization: Pyrite with minor chalcopyrite. The sulfides occur as finely disseminated, in thin fractures or narrow seams.	C1554	114.0	115.5	1.5	0.25					
		Sulfide content: 1-4% pyrite with < chalcopyrite.	C1555	115.5	117.0	1.5	0.51					
			C1556	117.0	118.5	1.5	0.16					
			C1557	118.5	120.4	1.9	0.62					
		114.30 - 114.40: 20% pyrite and minor chalcopyrite in seams and fractures.										
120.40	124.60	TUFF	C1558	120.4	123.0	2.6	0.30					
395.0'	408.8'		C1559	123.0	124.6	1.6	1.25					
		As 18.30 - 31.10.										
		<1 - 2% pyrite.										
124.60	129.70	MAFIC DYKE	C1560	124.6	127.5	2.9	0.04					
408.8'	425.5'		C1561	127.5	129.7	2.2	0.02					
		As 107.65 - 111.20. May be a mafic flow.										
129.70	132.10	TUFF	C1562	129.7	132.1	2.4	0.06					
425.5'	433.4'											
		Same as above.										
132.10	133.60	LAPILLI TUFF	C1563	132.1	133.6	1.5	0.51					
433.4'	438.3'											
		Same as 111.20 - 120.40. Pyrite content: 1-4% pyrite.										
133.60	134.05	MAFIC DYKE	C1564	133.6	134.05	0.45	0.03					
438.3'	439.8'											
		Same as 107.65 - 111.20.										
134.05	145.10	LAPILLI TUFF	C1565	134.05	136.0	1.95	0.37					
439.8'	476.0'		C1566	136.0	137.5	1.5	0.17					
		Same as 111.20 - 120.40.	C1567	137.5	139.0	1.5	1.10					
		Pyrite content: 1-4% pyrite.	C1568	139.0	140.5	1.5	0.03					
			C1569	140.5	142.0	1.5	NIL					

**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. **ND050-01-49**  
Sheet No. **6**

Footage metres/feet		DESCRIPTION	Sample No.	From	To (metres)	Length	Au ppm	Ag ppm				
From	To											
145.10	210.70	TUFF	C1570	142.0	143.5	1.5	0.01					
476.0'	691.3'		C1571	143.5	145.7	1.6	0.01					
		Same as 134.05 - 145.10. Some crystal tuff.	C1572	145.1	148.0	2.9	0.04					
		Negligible pyrite (<1 - 2%) except as noted:	C1573	148.0	150.0	2.0	0.04					
			C1574	150.0	151.5	1.5	0.21					
		151.60 - 152.10: Pyrite seams ranging in width from 1/8" to 1/4".	C1575	151.5	153.0	1.5	1.50					
		Pyrite seams are at 45° to 30° from core axis.	C1576	153.0	154.5	1.5	0.46					
		Overall pyrite content: 15%.	C1577	154.5	156.0	1.5	0.28					
		154.20 - 154.30: Pyrite seams (15% pyrite).	C1578	156.0	159.0	3.0	0.82					
		180.60 - 180.80: 1/4" wide pyrite seam, sub-parallel to the core	C1579	159.0	162.0	3.0	7.55					
		axis. Overall: 25% pyrite.	C1580	162.0	165.0	3.0	1.43					
		196.30 - 203.50: Lapilli tuff composed of scattered 'chloritic'	C1581	165.0	168.0	3.0	0.25					
		fragments in a fine matrix.	C1582	168.0	171.0	3.0	0.07					
		Same as 18.30 - 31.10.	C1583	171.0	174.0	3.0	0.06					
			C1584	174.0	177.0	3.0	0.03					
210.70	226.80	LAPILLI TUFF	C1585	177.0	180.0	3.0	0.89					
691.3'	744.1'		C1586	180.0	181.5	1.5	0.88					
		The lapilli tuff is composed of felsic and mafic fragments in an inter-	C1587	181.5	183.0	1.5	7.20					
		mediate matrix. The size of the fragments ranges from 1/16" to 1".	C1588	183.0	186.0	3.0	0.34					
		Mineralization: Pyrite content - 1-4%.	C1589	186.0	189.0	3.0	0.03					
			C1590	189.0	192.0	3.0	0.05					
226.80	229.50	MAFIC FLOW	C1591	192.0	195.0	3.0	0.10					
744.1'	753.0'		C1592	195.0	198.0	3.0	0.03					
		Dark green, fine-grained and massive.	C1593	198.0	201.0	3.0	0.02					
		Pyrite content: Negligible.	C1594	201.0	204.0	3.0	0.27					
			C1595	204.0	207.0	3.0	0.03					
229.50	253.95	LAPILLI TUFF	C1596	207.0	210.0	3.0	0.05					
753.0'	833.2'		C1597	210.0	213.0	3.0	2.06					
		The lapilli tuff is composed mainly of felsic fragments and minor mafic	C1598	213.0	216.0	3.0	0.10					
		fragments in an intermediate to felsic matrix. The size of the fragments	C1599	216.0	219.0	3.0	0.06					
		ranges from 1/16" to 1".	C1600	219.0	222.0	3.0	0.03					
		Mineralization: The pyrite occurs as finely disseminated, in thin	C1601	222.0	225.0	3.0	0.03					
		fractures randomly oriented, or in blebs.	C1602	225.0	226.8	1.8	0.17					
		Pyrite content: 1-8%.	C1603	226.8	229.5	2.7	0.03					
			C1604	229.5	231.0	1.5	0.05					
		232.40 - 232.70: fine-grained mafic dyke or flow.	C1605	231.0	232.5	1.5	0.03					
		234.70 - 235.60: 1-8% pyrite.	C1606	232.5	134.0	1.5	0.25					
		244.70 - 245.10: 5% pyrite, some "fuchsites".	C1607	234.0	235.5	1.5	0.23					
		250.50 - 251.10: 1-8% pyrite.	C1608	235.5	237.0	1.5	3.77					
			C1609	237.5	238.5	1.5	0.49					

**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-49  
Sheet No. 7

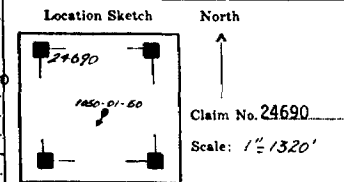
Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm						
From	To													
253.95	255.10	MAFIC FLOW  Dark green, fine-grained and massive. Sharp upper and lower contacts. Contains 1-2% finely disseminated pyrite.	C1610	238.5	240.0	1.5	0.41							
833.2'	836.9'		C1611	240.0	241.5	1.5	0.30							
			C1612	241.5	243.0	1.5	0.51							
			C1613	243.0	244.5	1.5	0.12							
			C1614	244.5	246.0	1.5	0.07							
255.10	260.85	LAPILLI TUFF  Same as 229.50 - 253.95. 1-6% pyrite.	C1615	246.0	247.5	1.5	0.02							
836.9'	855.8'		C1616	247.5	249.0	1.5	0.02							
			C1617	249.0	250.5	1.5	0.05							
			C1618	250.5	252.0	1.5	0.03							
			C1619	252.0	253.95	1.95	0.01							
260.85	262.50	CRYSTAL TUFF  Contains feldspar fragments ranging in size from 1/16" to 1/8". Negligible pyrite.	C1620	253.95	255.1	1.15	0.06							
855.8'	861.2'		C1621	255.1	256.5	1.4	0.03							
			C1622	256.5	258.0	1.5	0.18							
			C1623	258.0	259.5	1.5	0.35							
			C1624	259.5	260.85	1.35	0.04							
262.50	264.30	MAFIC TUFF  Dark green and massive. Contains scattered large mafic fragments. Negligible pyrite.	C1625	260.85	162.5	1.65	0.14							
861.2'	867.1'		C1626	262.5	264.3	1.8	0.02							
264.30	276.70	LAPILLI TUFF  Same as 229.50 - 253.95. Pyrite content: 1-8%.	C1627	264.3	265.5	1.2	0.06							
867.1'	907.8'		C1628	265.5	267.0	1.5	4.63							
			C1629	267.0	268.5	1.5	5.59							
			C1630	268.5	270.0	1.5	0.11							
276.70	279.00	CRYSTAL TUFF	C1631	270.0	271.5	1.5	0.03							
907.8'	915.4'		C1632	271.2	273.0	1.5	0.11							
			C1633	273.0	274.5	1.5	0.03							
	279.00	END OF HOLE	C1634	274.5	276.0	1.5	0.16							
	915.4'		C1635	276.0	277.5	1.5	0.27							
			C1636	277.5	279.0	1.5	0.04							

**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-50

Collar Elevation: 4,975'

Hole No. <u>1050-01-50</u> Sheet <u>1</u>	Length <u>209.70 metres</u>	Commenced <u>March 28, 1981</u>	Dip: Collar <u>-45°</u>
Property <u>Mirado (1050-01)</u>	Bearing <u>S35°W</u>	Completed <u>March 31, 1981</u>	Etch Test
Township <u>Catharine</u>	Dip <u>-45°</u>	Drilling Co. <u>St-Lambert</u>	Depth
Location <u>1 - 2+86E at 5+69N.</u>	Objective <u>To test south zone.</u>	Core Size <u>BQ</u>	Rdg.
Logged By <u>G. Tremblay</u>		Casing Left/Lost in Hole <u>Yes</u>	True
Core Location <u>Timmins</u>			1 60m 49° 40°
			2 120m 44° 35.5°
			3 180m 42.5° 34°



Remarks Core Specimens: 8.2, 16.9, 27.2, 53.2, 62.0, 71.7, 74.8, 78.2, 81.9, 90.6, 106.3, 117.8, 132.0, 139.7, 155.9, 165.3, 171.0, 177.2, 184.5, 188.9, 198.0, 206.7.

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm
From	To							
0	5.05	CASING						
0	16.6'							
5.05	8.95	LAPILLI TUFF	C1637	22.85	26.0	3.15	0.06	
16.6'	29.4'		C1638	26.0	29.05	3.05	0.08	
			C1639	29.05	33.0	3.95	0.64	
			C1640	33.0	36.0	3.0	0.18	
			C1641	36.0	39.0	3.0	0.25	
8.95	22.85	TUFF	C1642	39.0	42.0	3.0	0.34	
29.4'	75.0'		C1643	42.0	45.0	3.0	0.04	
			C1644	45.0	48.0	3.0	0.20	
22.85	29.05	LAPILLI TUFF	C1645	48.0	51.0	3.0	0.10	
75.0'	95.3'		C1646	51.0	54.0	3.0	0.11	
			C1647	54.0	57.0	3.0	0.05	
29.05	93.00	TUFF WITH MINOR LAPILLI TUFF	C1648	57.0	60.0	3.0	0.11	
95.3'	305.1'		C1649	60.0	63.0	3.0	0.14	
			C1650	63.0	66.0	3.0	0.04	
93.00	132.85	TUFF	C1651	66.0	69.0	3.0	0.31	
305.1'	435.9'		C1652	69.0	72.0	3.0	0.23	
			C1653	72.0	75.0	3.0	0.15	
132.85	134.05	SYENITE DYKE	C1654	75.0	77.0	2.0	25.38	
435.9'	439.8'		C1655	77.0	78.0	1.0	81.90	
			C1656	78.0	81.0	3.0	0.05	
134.05	168.60	TUFF	C1657	81.0	84.0	3.0	0.02	
439.8'	553.1'		C1658	84.0	87.0	3.0	0.05	
			C1659	87.0	90.0	3.0	0.10	
168.60	174.60	MAFIC DYKE	C1660	90.0	93.0	3.0	0.11	
553.1'	572.8'		C1661	93.0	96.0	3.0	0.16	
			C1662	96.0	99.0	3.0	0.60	
174.60	209.70	TUFF	C1663	99.0	102.0	3.0	0.85	
572.8'	688.0'		C1664	102.0	105.0	3.0	0.56	

**AMAX MINERALS EXPLORATION**  
(A Division of Amex of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 1050-01-50  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
209.70	END OF HOLE		C1665	105.0	108.0	3.0	0.47					
688.0'			C1666	108.0	111.0	3.0	0.02					
			C1667	111.0	114.0	3.0	0.42					
			C1668	114.0	115.5	1.5	2.50					
			C1669	115.5	117.0	1.5	0.08					
			C1670	117.0	120.0	3.0	0.20					
			C1671	120.0	123.0	3.0	4.32					
			C1672	123.0	126.0	3.0	0.61					
			C1673	126.0	129.0	3.0	0.34					
			C1674	129.0	132.85	3.85	1.75					
			C1675	132.85	134.05	1.20	0.04					
			C1801	134.05	138.0	3.95	0.19					
			C1802	138.0	141.0	3.0	0.03					
			C1803	141.0	144.0	3.0	0.05					
			C1804	144.0	147.0	3.0	0.22					
			C1805	147.0	150.0	3.0	0.30					
			C1806	150.0	151.5	1.5	0.44					
			C1807	151.5	153.0	1.5	0.21					
			C1808	153.0	154.5	1.5	0.17					
			C1809	154.5	156.0	1.5	1.58					
			C1810	156.0	157.5	1.5	0.11					
			C1811	157.5	159.0	1.5	0.15					
			C1812	159.0	160.5	1.5	0.10					
			C1813	160.5	162.0	1.5	0.29					
			C1814	162.0	163.5	1.5	0.21					
			C1815	163.5	165.0	1.5	0.09					
			C1816	165.0	166.5	1.5	0.08					
			C1817	166.5	168.6	2.1	0.29					
			C1818	168.6	171.5	2.9	0.10					
			C1819	171.5	174.6	3.1	0.24					
			C1820	174.6	177.0	2.4	0.27					
			C1821	177.0	180.0	3.0	0.25					
			C1822	180.0	183.0	3.0	0.13					
			C1823	183.0	186.0	3.0	0.23					
			C1824	186.0	189.0	3.0	0.05					
			C1825	189.0	192.0	3.0	0.21					
			C1826	192.0	195.0	3.0	0.21					
			C1827	195.0	198.0	3.0	0.14					
			C1828	198.0	201.0	3.0	0.03					



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-50  
Sheet No. 3

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
0	5.05	CASING										
0	16.6'											
5.05	8.95	LAPILLI TUFF	C1637	22.85	26.0	3.15	0.06					
16.6'	29.4'		C1638	26.0	29.05	3.05	0.08					
			C1639	29.05	33.0	3.95	0.64					
		The lapilli tuff is composed of mafic fragments in an intermediate matrix. The size of the fragments ranges from 1/16" to 1". The average size is 3/8".	C1640	33.0	36.0	3.0	0.18					
		Negligible pyrite (<1%).	C1641	36.0	39.0	3.0	0.25					
			C1642	39.0	42.0	3.0	0.34					
			C1643	42.0	45.0	4.0	0.04					
			C1644	45.0	48.0	3.0	0.20					
8.95	22.85	TUFF	C1645	48.0	51.0	3.0	0.10					
29.4'	75.0'		C1646	51.0	54.0	3.0	0.11					
		The tuff is medium grey, and massive. Contains scattered small fragments smaller than 1/16". Negligible pyrite.	C1647	54.0	57.0	3.0	0.05					
			C1648	57.0	60.0	3.0	0.11					
22.85	29.05	LAPILLI TUFF	C1649	60.0	63.0	3.0	0.14					
75.0'	95.3'		C1650	63.0	66.0	3.0	0.04					
		Same as 5.05 to 8.95. Pyrite content: Less than 1% to 2%.	C1651	66.0	69.0	3.0	0.31					
			C1652	69.0	72.0	3.0	0.23					
29.05	93.00	TUFF WITH MINOR LAPILLI TUFF	C1653	72.0	75.0	3.0	0.15					
95.3'	305.1'		C1654	75.0	77.0	2.0	25.38					
		The tuff is light to medium grey. The tuff contains scattered 'chloritic' fragments. These fragments range in size from 1/8" to 1/4".	C1655	77.0	78.0	1.0	31.90					
		Pyrite content: <1 - 2% pyrite.	C1656	78.0	81.0	3.0	0.05					
		At 68.95 metres: 1/4" pyrite-chalcopyrite seam.	C1657	81.0	84.0	3.0	0.02					
		77.00 - 77.60: 8% pyrite in seams or thin fractures.	C1658	84.0	87.0	3.0	0.05					
			C1659	87.0	90.0	3.0	0.10					
			C1660	90.0	93.0	3.0	0.11					
93.00	132.85	TUFF	C1661	93.0	96.0	3.0	0.16					
305.1'	435.9'		C1662	96.0	99.0	3.0	0.60					
		Light to medium grey and massive. Negligible pyrite (<1 - 1%).	C1663	99.0	102.0	3.0	0.85					
			C1664	102.0	105.0	3.0	0.56					
		101.15 - 101.25: Large mafic fragment containing 15% pyrite.	C1665	105.0	108.0	3.0	0.47					
		144.10 - 114.70: 6% pyrite with minor chalcopyrite in narrow seams and thin fractures.	C1666	108.0	111.0	3.0	0.02					
			C1667	111.0	114.0	3.0	0.42					
			C1668	114.0	115.5	1.5	2.50					
132.85	134.05	SYENITE DYKE	C1669	115.5	117.0	1.5	0.08					
435.9'	439.8'		C1670	117.0	120.0	3.0	0.20					
		Same as in previous holes.	C1671	120.0	123.0	3.0	4.32					
			C1672	123.0	126.0	3.0	0.61					
			C1673	126.0	129.0	3.0	0.34					
			C1674	129.0	132.85	3.85	1.75					



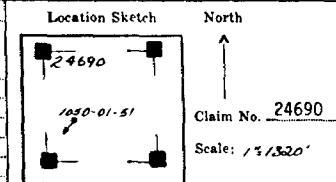


**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-51

Collar Elevation: 4,976'

Hole No. 1050-01-51 Sheet 1	Length 223.00 metres	Commenced March 31, 1981	Dip: Collar -45°
Property Mirado (1050-01)	Bearing S35°W	Completed April 3, 1981	
Township Catherine	Dip -45°	Drilling Co. St-Lambert	Etch Test
Location L - 1+13E at 2+61N (Section H)	Objective To test south zone.	Core Size BQ	Depth Rdg. True
Logged By G. Tremblay		Casing Left/Lost in Hole None	1 60m 53.5° 45°
Core Location Timmins			2 120m 50.5° 42°
			3 180m 48.0° 39°



Remarks Core Specimens: 5.6, 18.0, 28.5, 36.0, 48.0, 58.4, 70.1, 76.3, 79.3, 89.4, 97.5, 99.3, 102.0, 107.8, 116.0, 121.6, 126.2, 133.5, 136.4, 157.0, 166.6, 174.0, 180.0, 181.5, 189.0, 198.0, 204.5, 216.0.

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm
From	To							
0	5.30	CASING						
0	17.4'		C1832	5.3	7.5	2.2	2.47	
5.30	42.30	TUFF AND CRYSTAL TUFF	C1833	7.5	9.0	1.5	0.99	
17.4'	138.8'		C1834	9.0	10.5	1.5	1.58	
			C1835	10.5	12.0	1.5	0.34	
			C1836	12.0	15.0	3.0	0.21	
42.30	75.80	LAPILLI TUFF	C1837	15.0	18.0	3.0	0.03	
138.8'	248.7'		C1838	18.0	21.0	3.0	0.40	
			C1839	21.0	24.0	3.0	1.05	
75.80	77.35	MAFIC DYKE	C1840	24.0	27.0	3.0	0.01	
248.7'	253.8'		C1841	27.0	30.0	3.0	0.01	
			C1842	30.0	33.0	3.0	0.03	
77.35	86.70	LAPILLI TUFF	C1843	33.0	36.0	3.0	0.10	
253.8'	284.4'		C1844	36.0	39.0	3.0	0.01	
			C1845	39.0	42.0	3.0	0.03	
86.70	93.25	TUFF	C1846	42.0	45.0	3.0	0.02	
284.4'	305.9'		C1847	45.0	48.0	3.0	0.03	
			C1848	48.0	51.0	3.0	0.03	
93.25	98.60	LAPILLI TUFF	C1849	51.0	54.0	3.0	0.04	
305.9'	323.5'		C1850	54.0	55.5	1.5	0.14	
			C1851	55.5	57.0	1.5	9.95	
98.60	105.00	TUFF	C1852	57.0	58.5	1.5	0.16	
323.5'	344.5'		C1853	58.5	60.0	1.5	0.02	
			C1854	60.0	61.5	1.5	0.03	
105.00	113.60	LAPILLI TUFF	C1855	61.5	63.0	1.5	0.02	
344.5'	372.7'		C1856	63.0	64.5	1.5	0.03	
			C1857	64.5	66.0	1.5	0.03	
113.60	120.10	TUFF	C1858	66.0	67.5	1.5	0.19	
372.7'	394.0'		C1859	67.5	69.0	1.5	0.18	







**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-51  
Sheet No. 4

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
77.35	86.70	LAPILLI TUFF	C1865	77.35	79.5	2.15	0.41					
253.8'	284.4'		C1866	79.5	81.0	1.5	0.22					
		Same as 42.30 - 75.80. Pyrite content: 3-20% pyrite.	C1867	81.0	82.5	1.5	0.27					
			C1868	82.5	84.0	1.5	0.51					
86.70	93.25	TUFF	C1869	84.0	85.5	1.5	0.20					
284.4'	305.9'		C1870	85.5	86.7	1.2	1.04					
		The tuff is light grey, fine-grained and massive. Contains feldspar fragments, smaller than 1/16" (crystal tuff). The tuff is felsic.	C1871	86.7	88.5	1.8	0.41					
		Pyrite content: 1-4% disseminated pyrite.	C1872	88.5	90.0	1.5	0.10					
			C1873	90.0	91.5	1.5	0.06					
93.25	98.60	LAPILLI TUFF	C1874	91.5	93.25	1.75	0.07					
305.9'	323.5'		C1875	93.25	94.5	1.25	0.03					
		The lapilli tuff is dark green. The lapilli tuff is composed of mafic fragments in an intermediate to mafic matrix. The size of the fragments ranges from 1/16" to 1/4", with scattered larger mafic fragments (up to 1").	C1901	94.5	96.0	1.5	0.03					
		Pyrite content: 1-6%.	C1902	96.0	97.5	1.5	0.02					
			C1903	97.5	98.6	1.1	0.01					
98.60	105.00	TUFF	C1904	98.6	102.0	3.4	0.08					
323.5'	344.5'		C1905	102.0	105.0	3.0	0.07					
		Same as 86.70 - 93.25. Pyrite content: 1-4% disseminated pyrite.										
105.00	113.60	LAPILLI TUFF	C1906	105.0	108.0	3.0	0.01					
344.5'	372.7'		C1907	108.0	111.0	3.0	NIL					
		Same as 93.25 - 98.60. Pyrite content: 1-3%.	C1908	111.0	113.6	2.6	0.02					
113.60	120.10	TUFF	C1909	113.6	117.0	3.4	0.03					
372.7'	394.0'		C1910	117.0	120.1	3.1	0.86					
		Same as 86.70 - 93.25. Pyrite content: 1-8%.										
120.10	128.80	MAFIC FLOW	C1911	120.1	123.0	2.9	0.03					
394.0'	422.6'		C1912	123.0	126.0	3.0	NIL					
		Dark green, fine-grained and massive. Pyrite content: negligible.	C1913	126.0	128.8	2.8	NIL					
128.80	171.15	TUFF	C1914	128.8	132.0	3.2	0.05					
422.6'	561.5'		C1915	132.0	135.0	3.0	0.07					
		Same as 86.70 - 93.25. Pyrite content: 1-6% disseminated pyrite.	C1916	135.0	138.0	3.0	2.30					
		144.45 - 144.70: pyrite seams at 50° to 60° from core axis.	C1917	138.0	141.0	3.0	0.05					
		Overall pyrite content: 25% - 30%.	C1918	141.0	144.0	3.0	0.05					
			C1919	144.0	145.5	1.5	5.53					
			C1920	145.5	147.0	1.5	2.03					

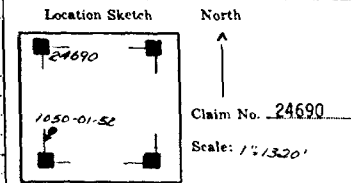


**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-52

Collar Elevation: 4,965'

Hole No. 1050-01-52 sheet 1	Length 154.45 metres	Commenced April 3, 1981	Dip: Collar -45°
Property Mirado (1050-01)	Bearing S35°W	Completed April 5, 1981	
Township Catharine	Dip -45°	Drilling Co. St-Lambert	Etch Test 1 60m 53.5° 45°
Location 1 - 0+13W at 0+00, (Section F)	Objective To test south zone.	Core Size BQ	2 120m 49.5° 41°
Logged By G. Tremblay		Casing Left/Lost in Hole None	
Core Location Timmins			



Remarks Core Specimens: 9.0, 15.7, 27.0, 37.0, 41.6, 47.3, 53.5, 57.5, 63.4, 69.0, 72.0, 75.8, 89.5, 104.0, 109.8, 119.4, 127.1, 139.0, 148.9, 150.85.

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
0	8.00	CASING										
0	26.2'		C1949	8.0	10.5	2.5	0.08					
8.00	36.50	LAPILLI TUFF AND TUFF	C1950	10.5	12.0	1.5	1.42					
26.2'	119.8'		C1951	12.0	13.5	1.5	0.37					
			C1952	13.5	15.0	1.5	0.52					
			C1953	15.0	16.5	1.5	0.70					
36.50	60.10	LAPILLI TUFF	C1954	16.5	18.0	1.5	0.02					
119.8'	197.2'		C1955	18.0	19.5	1.5	0.37					
			C1956	19.5	21.0	1.5	0.08					
60.10	64.90	TUFF	C1957	21.0	22.5	1.5	1.98					
197.2'	212.9'		C1958	22.5	24.0	1.5	0.13					
			C1959	24.0	25.5	1.5	0.20					
64.90	87.00	TUFF WITH MINOR LAPILLI TUFF	C1960	25.5	27.0	1.5	0.27					
212.9'	285.4'		C1961	27.0	28.5	1.5	0.13					
			C1962	28.5	30.0	1.5	0.27					
87.00	118.00	LAPILLI TUFF	C1963	30.0	31.5	1.5	0.29					
285.4'	387.1'		C1964	31.5	33.0	1.5	0.32					
			C1965	33.0	34.5	1.5	0.36					
118.00	127.00	AGGLOMERATE	C1966	34.5	36.0	1.5	1.05					
387.1'	416.7'		C1967	36.0	37.5	1.5	0.25					
			C1968	37.5	39.0	1.5	0.06					
127.00	150.30	LAPILLI TUFF	C1969	39.0	40.5	1.5	0.16					
416.7'	493.1'		C1970	40.5	42.0	1.5	0.02					
			C1971	42.0	43.5	1.5	0.10					
150.30	154.45	TUFF	C1972	43.5	45.0	1.5	0.34					
493.1'	506.7'		C1973	45.0	46.5	1.5	0.15					
			C1974	46.0	48.0	1.5	0.42					
	154.45	END OF HOLE	C1975	48.0	49.5	1.5	0.25					
	506.7'		C1976	49.5	51.0	1.5	0.12					







**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-52  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
0	8.00	CASING											
0	26.2'												
8.00	36.50	LAPILLI TUFF AND TUFF  There is 80% lapilli tuff and 20% tuff. The lapilli tuff and tuff have the same composition. The color of the tuff is medium grey and the lapilli tuff has a medium grey matrix with dark green mafic fragments. The size of the fragments in the lapilli tuff ranges from 1/16" to 1/2".  Mineralization: The tuff and lapilli tuff are mineralized with pyrite which occurs as finely disseminated, in blebs, in thin fractures and seams, randomly oriented. The size of the pyrite crystals are fine to coarse. Overall pyrite content: 1-15%.  8.00 - 17.00: 3-15% pyrite. 17.00 - 21.50: 1-5% pyrite. 21.50 - 22.00: 5-15% pyrite. 22.00 - 36.50: 1-8% pyrite.  At 33.70: 1/2" wide pyrite seam (70% pyrite) at 45° from core axis.	C1949	8.0	10.5	2.5	0.08						
26.2'	119.8'			C1950	10.5	12.0	1.5	1.42					
				C1951	12.0	13.5	1.5	0.37					
				C1952	13.5	15.0	1.5	0.52					
				C1953	15.0	16.5	1.5	0.70					
				C1954	16.5	18.0	1.5	0.02					
				C1955	18.0	19.5	1.5	0.37					
				C1956	19.5	21.0	1.5	0.08					
				C1957	21.0	22.5	1.5	1.98					
				C1958	22.5	24.0	1.5	0.13					
				C1959	24.0	25.5	1.5	0.20					
				C1960	25.5	27.0	1.5	0.27					
				C1961	27.0	28.5	1.5	0.13					
				C1962	28.5	30.0	1.5	0.27					
				C1963	30.0	31.5	1.5	0.29					
				C1964	31.5	33.0	1.5	0.32					
				C1965	33.0	34.5	1.5	0.36					
			C1966	34.5	36.0	1.5	1.05						
36.50	60.10	LAPILLI TUFF  Same composition as above, but with larger fragments. Gradual contact with the above lapilli tuff. The lapilli tuff is composed of dark green mafic fragments in a light grey felsic matrix. The size of the fragments ranges from 1/16" to 1/2". The average size is 1/4-3/4".  Mineralization: heavily mineralized with pyrite. The pyrite occurs as disseminated, in blebs, in thin fractures and narrow seams, randomly oriented. Overall pyrite content: 2-15% pyrite.  40.30 - 42.80: Tuff 53.10 - 60.10: Lapilli tuff heavily mineralized with pyrite. The pyrite occurs as disseminated, in clots, in thin fractures and narrow seams, randomly oriented. Py content: 5-20%.	C1967	36.0	37.5	1.5	0.25						
119.8'	197.2'			C1968	37.5	39.0	1.5	0.06					
				C1969	39.0	40.5	1.5	0.16					
				C1970	40.5	42.0	1.5	0.02					
				C1971	42.0	43.5	1.5	0.10					
				C1972	43.5	45.0	1.5	0.34					
				C1973	45.0	46.5	1.5	0.15					
				C1974	46.0	48.0	1.5	0.42					
				C1975	48.0	49.5	1.5	0.25					
				C1976	49.5	51.0	1.5	0.12					
				C1977	51.0	52.5	1.5	0.05					
				C1978	52.5	54.0	1.5	0.15					
				C1979	54.0	55.5	1.5	0.27					
			C1980	55.5	57.0	1.5	1.39						
			C1981	57.0	58.5	1.5	1.85						
			C1982	58.5	60.1	1.6	0.54						

**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-52  
Sheet No. 3

Footage Meters/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
36.50	60.10	LAPILLI TUFF (continued)										
119.8'	197.2'											
		56.50 - 60.10: heavily brecciated; most of the py occurs in thin fractures, randomly oriented. Pyrite content: 8-20%.										
60.10	64.90	TUFF	C1983	60.1	63.1	3.0	0.02					
197.2'	212/9'	The tuff is mafic. Fine-grained, massive, medium to dark green. Mineralized with 2-5% pyrite.	C1984	63.1	64.9	1.8	NIL					
64.90	87.00	TUFF WITH MINOR LAPILLI TUFF	C1985	64.9	68.0	3.1	NIL					
212.9'	285.4'	The tuff and lapilli tuff have the same composition. Light to medium grey, intermediate to felsic in composition. The lapilli tuff contains mafic fragments smaller than 1/4". Average size is 1/8". Pyrite content: 1-5% pyrite.	C1986	68.0	71.0	3.0	0.02					
			C1987	71.0	74.0	3.0	0.04					
			C1988	74.0	77.0	3.0	0.44					
			C1989	77.0	80.0	3.0	0.01					
			C1990	80.0	83.0	3.0	NIL					
			C1991	83.0	85.5	2.5	0.03					
87.00	118.00	LAPILLI TUFF	C1992	85.5	87.0	1.5	0.03					
285.4'	387.1'	Gradual contact with the above unit. The lapilli tuff is composed of medium to dark green mafic fragments in a light grey felsic matrix. The size of the fragments ranges from 1/16" to 1". Overall pyrite content: 3-10% pyrite. At 101.40: 1/2" wide pyrite seam (80% pyrite) at 45° from core axis.	C1993	87.0	88.5	1.5	0.04					
			C1994	88.5	90.0	1.5	0.03					
			C1995	90.0	91.5	1.5	0.03					
			C1996	91.5	93.0	1.5	0.03					
			C1997	93.0	94.5	1.5	0.05					
			C1998	94.5	96.0	1.5	0.04					
			C1999	96.0	97.5	1.5	0.06					
		107.40 - 118.00: 5-20% pyrite.	C2000	97.5	99.0	1.5	0.03					
			C2001	99.0	100.5	1.5	0.03					
118.00	127.00	AGGLOMERATE	C2002	100.5	102.0	1.5	0.13					
387.1'	416.7'	Same composition as the lapilli tuff from 87.00 - 118.00, but with larger mafic fragments. The size of the fragments ranges from 1/4" to 4". Pyrite content: 5-20%.	C2003	102.0	103.5	1.5	0.02					
			C2004	103.5	105.0	1.5	0.01					
			C2005	105.0	106.5	1.5	NIL					
			C2006	106.5	108.0	1.5	0.04					
			C2007	108.0	109.5	1.5	0.04					
127.00	150.30	LAPILLI TUFF	C2008	109.5	111.0	1.5	0.08					
416.7'	493.1'	Same as 87.00 - 118.00.	C2009	111.0	112.5	1.5	0.10					
			C2010	112.5	114.0	1.5	0.11					
			C2011	114.0	115.5	1.5	0.82					
		127.00 - 130.50: 3-20% pyrite.	C2012	115.5	117.0	1.5	0.36					
		130.50 - 150.30: 1-10% pyrite.	C2013	117.0	118.5	1.5	0.46					

**AMAX MINERALS EXPLORATION**  
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Hole No. 050-01-52  
Sheet No. 4

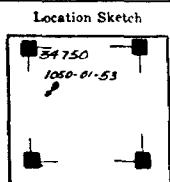
Footage metres/feet		DESCRIPTION	Sample No.	From	To (metres)	Length (metres)	Au ppm	Ag ppm				
From	To											
150.30	154.45	TUFF	C2014	118.5	120.0	1.5	0.11					
493.1'	506.7'		C2015	120.0	121.5	1.5	0.08					
		Medium grey, and massive. Contains scattered 'chloritic' mafic fragments smaller than 1/2".	C2016	121.5	123.0	1.5	0.03					
		Pyrite content: < 1 - 2% pyrite.	C2017	123.0	124.5	1.5	0.04					
			C2018	124.5	126.0	1.5	0.14					
			C2019	126.0	127.5	1.5	0.05					
154.45	END OF HOLE		C2020	127.5	129.0	1.5	0.06					
506.7'			C2021	129.0	130.5	1.5	0.07					
			C2122	130.5	132.0	1.5	0.02					
			C2023	132.0	135.0	3.0	0.03					
			C2024	135.0	138.0	3.0	0.03					
			C2025	138.0	141.0	3.0	0.02					
			C2126	141.0	144.0	3.0	0.03					
			C2127	144.0	147.0	3.0	0.05					
			C2028	147.0	148.6	1.6	0.04					
			C2029	148.6	150.0	1.7	0.09					
			C2030	150.3	152.3	2.0	0.01					
			C2031	152.3	154.45	2.15	0.02					



**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 1050-01-53

Collar Elevation: 4,960'

Hole No. 1050-01-53 Sheet 1 Property Mirado (1050-01) Township Catharine Location L - 6+00E at 4+49S Drilled By G. Tremblay Core Location Timmins	Length 162.00 metres Bearing S35°W Dip -45° Objective To find contact between pyroclastic rocks (to the north) and peridotite intrusive (to the S).	Commenced April 6, 1981 Completed April 8, 1981 Drilling Co. St-Lambert Core Size BQ Casing Left/Lost in Hole None	Dip: Collar -45° Etch Test 1 60m 52.5° 44.0° 2 120m 49.0° 40.5°	Location Sketch  Claim No. 34750 Scale: 1/2" = 100'
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Remarks Core Specimens: 34.7, 39.8, 49.5, 54.0, 67.3, 69.7, 80.8, 90.1, 93.1, 96.8, 100.5, 104.0, 109.1, 112.8, 116.65, 123.7, 127.0, 131.8, 140.0, 145.6, 149.8, 153.4, 157.5.

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
	30.80	CASING										
	101.0'											
33.80	35.00	AGGLOMERATE	C2032	30.8	33.0	2.2	NIL					
33.80	114.8'		C2033	33.0	36.0	3.0	NIL					
33.80	114.8'		C2034	36.0	39.0	3.0	NIL					
33.80	114.8'		C2035	39.0	42.0	3.0	0.02					
33.80	114.8'		C2036	42.0	45.0	3.0	NIL					
33.80	114.8'	TUFF AND CRYSTAL TUFF	C2037	45.0	48.0	3.0	NIL					
33.80	114.8'		C2038	48.0	51.0	3.0	NIL					
33.80	114.8'		C2039	51.0	54.0	3.0	NIL					
33.80	114.8'	MAFIC DYKE	C2040	54.0	57.0	3.0	NIL					
33.80	114.8'		C2041	57.0	60.0	3.0	0.01					
33.80	114.8'		C2042	60.0	63.0	3.0	0.02					
33.80	114.8'	TUFF AND CRYSTAL TUFF	C2043	63.0	66.0	3.0	NIL					
33.80	114.8'		C2044	66.0	69.0	3.0	NIL					
33.80	114.8'		C2045	69.0	72.0	3.0	NIL					
33.80	114.8'	AGGLOMERATE AND LAPILLI TUFF	C2046	72.0	75.0	3.0	NIL					
33.80	114.8'		C2047	75.0	78.0	3.0	0.02					
33.80	114.8'		C2048	78.0	81.0	3.0	0.01					
33.80	114.8'	TUFF AND CRYSTAL TUFF	C2049	81.0	84.0	3.0	0.03					
33.80	114.8'		C2050	84.0	87.0	3.0	0.01					
33.80	114.8'		C2051	87.0	90.0	3.0	0.03					
33.80	114.8'	MAFIC DYKE	C2052	90.0	93.0	3.0	0.01					
33.80	114.8'		C2053	93.0	96.0	3.0	NIL					
33.80	114.8'		C2054	96.0	99.0	3.0	NIL					
33.80	114.8'	TUFF AND CRYSTAL TUFF	C2055	99.0	102.0	3.0	NIL					
33.80	114.8'		C2056	102.0	105.0	3.0	0.01					
33.80	114.8'		C2057	105.0	108.0	3.0	0.01					
33.80	114.8'	MAFIC DYKE	C2058	108.0	111.0	3.0	NIL					
33.80	114.8'		C2059	111.0	114.0	3.0	NIL					





**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. D50-01-53  
Sheet No. 3

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm				
From	To											
0	30.80	CASING										
0	101.0'											
30.80	35.00	AGGLOMERATE	C2032	30.8	33.0	2.2	NIL					
101.0'	114.8'		C2033	33.0	36.0	3.0	NIL					
		The agglomerate is composed of light grey felsic fragments in a dark grey intermediate to mafic matrix. The size of the fragments ranges from 1/8" to 7".										
		Mineralization: Disseminated pyrite; <1 - 2% pyrite.										
35.00	41.30	TUFF AND CRYSTAL TUFF	C2034	36.0	39.0	3.0	NIL					
114.8'	135.5'		C2035	39.0	42.0	3.0	0.02					
		Medium grey. Contains feldspar fragments smaller than 1/8". Negligible pyrite: <1 - 1%.										
41.30	42.45	MAFIC DYKE										
135.5'	139.3'											
		Dark green, fine to coarse-grained. Sharp upper and lower contacts at about 45° from core axis. No pyrite.										
42.45	45.40	TUFF AND CRYSTAL TUFF	C2036	42.0	45.0	3.0	NIL					
139.3'	149.0'											
		Same as 35.00 - 44.30. Negligible pyrite.										
45.40	56.70	AGGLOMERATE AND LAPILLI TUFF	C2037	45.0	48.0	3.0	NIL					
149.0'	186.0'		C2038	48.0	51.0	3.0	NIL					
		Same as 30.80 - 35.00. Pyrite content: <1 - 1% pyrite.										
			C2039	51.0	54.0	3.0	NIL					
			C2040	54.0	57.0	3.0	NIL					
56.70	91.60	TUFF AND CRYSTAL TUFF	C2041	57.0	60.0	3.0	0.01					
186.0'	300.5'		C2042	60.0	63.0	3.0	0.02					
		Same as 42.45 - 45.40, with scattered 'chloritic' mafic fragments ranging in size from 1/16" to 1/2". Negligible pyrite (<1 - 1%).										
			C2043	63.0	66.0	3.0	NIL					
			C2044	66.0	69.0	3.0	NIL					
			C2045	69.0	72.0	3.0	NIL					
91.60	95.30	MAFIC DYKE	C2046	72.0	75.0	3.0	NIL					
300.5'	312.7'		C2047	75.0	78.0	3.0	0.02					
		Dark green, fine-grained, with sharp upper and lower contacts at about 40 - 45° from core axis. Contains scattered 'chloritic' inclusions.										
			C2048	78.0	81.0	3.0	0.01					
			C2049	81.0	84.0	3.0	0.03					
		Negligible pyrite.										
			C2050	84.0	87.0	3.0	0.01					
			C2051	87.0	90.0	3.0	0.03					
			C2052	90.0	93.0	3.0	0.01					





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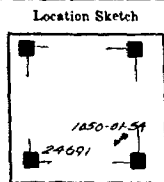
Hole No. 1050-01-54

Collar Elevation: = 4,965'

Hole No. 1050-01-54 Sheet 1	Length 163.00 metres	Commenced April 8, 1981	Dip: Collar -45°
Property Mirado (1050-01)	Bearing S35°W	Completed April 10, 1981	Etch Test 1
Township Catharine	Dip -45°	Drilling Co. St-Lambert	Depth 60m
Location L-1+12W at 0+00	Objective To test south zone.	Core Size BQ	Rdg. 51°
(Section E)		Casing Left/Lost in Hole None	True 42.5°
Logged By G. Tremblay			2 120m 49.5° 41.0°
Core Location Timmins			

Remarks Core Specimens: 15.6, 18.6, 24.8, 33.6, 44.8, 50.3, 55.4, 64.8, 68.5, 74.3, 81.7, 84.6, 96.3, 103.1, 108.2, 124.9, 132.6, 144.0, 147.7, 152.3, 161.3.

Location Sketch



North ↑

Claim No. 24691

Scale: 1" = 1320'

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm						
From	To													
0	13.70	CASING												
0	44.9'		C2074	13.7	16.1	2.4	0.03							
13.70	16.10	TUFF	C2075	16.1	19.0	2.9	0.04							
44.9'	52.8'		C2076	19.0	21.0	2.0	0.06							
16.10	21.00	INTERMEDIATE FLOW	C2077	21.0	22.0	1.0	0.03							
52.8'	68.9'		C2078	22.0	23.5	1.5	0.10							
21.00	22.00	TUFF	C2079	23.5	25.0	1.5	0.22							
68.9'	72.2'		C2080	25.0	28.0	3.0	0.07							
22.00	45.30	INTERMEDIATE FLOW	C2081	28.0	31.0	3.0	0.06							
72.2'	148.6'		C2082	31.0	34.0	3.0	0.05							
45.30	52.80	LAPILLI TUFF	C2083	34.0	37.0	3.0	0.18							
148.6'	173.2'		C2084	37.0	40.0	3.0	0.08							
52.80	67.90	TUFF	C2085	40.0	41.5	1.5	1.37							
173.2'	222.8'		C2086	41.5	43.0	1.5	0.10							
67.90	123.00	LAPILLI TUFF	C2087	43.0	45.3	2.3	0.14							
403.5'	433.1'		C2088	45.3	48.0	2.7	0.22							
123.00	132.00	TUFF	C2089	48.0	51.0	3.0	0.06							
433.1'	440.9'		C2090	51.0	52.8	1.8	0.14							
132.00	134.40	LAPILLI TUFF	C2091	52.8	54.0	1.2	0.06							
			C2092	54.0	57.0	3.0	0.03							
			C2093	57.0	60.0	3.0	NIL							
			C2094	60.0	63.0	3.0	0.07							
			C2095	63.0	64.5	1.5	0.06							
			C2096	64.5	66.0	1.5	0.18							
			C2097	66.0	67.9	1.9	0.03							
			C2098	67.9	70.0	2.1	0.04							
			C2099	70.0	72.0	2.0	0.05							
			C2100	72.0	73.5	1.5	0.12							
			C2101	73.5	75.0	1.5	0.16							

AMAX MINERALS EXPLORATION  
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Hole No. 050-01-54  
Sheet No. 2

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
134.40	136.50	MAFIC DYKE											
440.9'	447.8'												
136.50	163.00	LAPILLI TUFF WITH MINOR TUFF	C2102	75.0	76.5	1.5	0.10						
447.8'	534.8'		C2103	76.5	78.0	1.5	0.11						
			C2104	78.0	79.5	1.5	0.06						
			C2105	79.5	81.0	1.5	0.14						
	163.00	END OF HOLE	C2106	81.0	82.5	1.5	0.03						
	534.8'		C2107	82.5	84.0	1.5	0.06						
			C2108	84.0	85.5	1.5	0.06						
			C2109	85.5	87.0	1.5	0.10						
			C2110	87.0	90.0	3.0	0.05						
			C2111	90.0	93.0	3.0	0.02						
			C2112	93.0	96.0	3.0	0.03						
			C2113	96.0	99.0	3.0	0.05						
			C2114	99.0	102.0	3.0	0.03						
			C2115	102.0	105.0	3.0	0.02						
			C2116	105.0	106.5	1.5	0.03						
			C2117	106.5	108.0	1.5	0.03						
			C2118	108.0	109.5	1.5	0.06						
			C2119	109.5	111.0	1.5	0.36						
		C2120	111.0	112.5	1.5	0.06							
		C2121	112.5	114.0	1.5	0.14							
		C2122	114.0	115.0	1.0	0.04							
		C2123	115.0	117.0	2.0	0.04							
		C2124	117.0	118.5	1.5	0.03							
		C2125	118.5	120.5	1.5	0.03							
		C2126	120.0	121.5	1.5	0.04							
		C2127	121.5	123.0	1.5	0.13							
		C2128	123.0	124.5	1.5	0.06							
		C2129	124.5	126.0	1.5	0.01							
		C2130	126.0	127.5	1.5	0.02							
		C2131	127.5	129.0	1.5	0.03							
		C2132	129.0	130.5	1.5	0.03							
		C2133	130.5	132.0	1.5	0.03							
		C2134	132.0	134.4	2.4	0.04							
		C2135	134.4	136.5	2.1	0.02							
		C2136	136.5	139.0	2.5	0.05							
		C2137	139.0	142.0	3.0	0.03							
		C2138	142.0	145.0	3.0	0.04							
		C2139	145.0	148.0	3.0	0.03							
		C2140	148.0	149.5	1.5	0.05							





**AMAX MINERALS EXPLORATION**  
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**DIAMOND DRILL RECORD**

Hole No. 050-01-54  
Sheet No. 4

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm								
From	To															
67.90	123.00	LAPILLI TUFF	C2098	67.9	70.0	2.1	0.04									
222.8'	403.5'		C2099	70.0	72.0	2.0	0.05									
			Same as 45.30 - 52.80. Felsic and mafic fragments in an intermediate matrix.	C2100	72.0	73.5	1.5	0.12								
				C2101	73.5	75.0	1.5	0.16								
				C2102	75.0	76.5	1.5	0.10								
			67.90 - 73.50: 1-3% pyrite.	C2103	76.5	78.0	1.5	0.11								
			73.50 - 75.00: 4-20% pyrite in blebs, thin fractures and seams, randomly oriented.	C2104	78.0	79.5	1.5	0.66								
				C2105	79.5	81.0	1.5	0.14								
			75.00 - 80.00: 1-5% pyrite.	C2106	81.0	82.5	1.5	0.03								
			80.00 - 82.00: 3-10% pyrite in thin fractures and seams, randomly oriented, and blebs. At 81.50: 1" wide pyrite seam (80% pyrite) at 70° from core axis.	C2107	82.5	84.0	1.5	0.06								
				C2108	84.0	85.5	1.5	0.06								
				C2109	85.5	87.0	1.5	0.10								
			82.00 - 90.00: 1-6% pyrite.	C2110	87.0	90.0	3.0	0.05								
			90.00 - 106.50: Less than 1% to 2% pyrite.	C2111	90.0	93.0	3.0	0.02								
			106.50 - 113.00: 5-15% pyrite.	C2112	93.0	96.0	3.0	0.03								
		At 110.70: 1" wide pyrite seam (80% pyrite) at 70° from core axis.	C2113	96.0	99.0	3.0	0.05									
			C2114	99.0	102.0	3.0	0.03									
		113.00 - 123.00: 2-6% pyrite.	C2115	102.0	105.0	3.0	0.02									
123.00	132.00	TUFF	C2116	105.0	106.5	1.5	0.03									
403.5'	433.1'		C2117	106.5	108.0	1.5	0.03									
			The tuff is light grey and massive. Pyrite content: 2-6% pyrite.	C2118	108.0	109.5	1.5	0.06								
			123.80 - 124.00: 1/4" wide pyrite seam (80% py) at 30° from core axis.	C2119	109.5	111.0	1.5	0.36								
				C2120	111.0	112.5	1.5	0.06								
				C2121	112.5	114.0	1.5	0.14								
132.00	134.40		LAPILLI TUFF	C2122	114.0	115.0	1.0	0.04								
433.1'	440.9'			C2123	115.0	117.0	2.0	0.04								
				The lapilli tuff is composed of mafic fragments in an intermediate to felsic matrix. The size of the fragments ranges from 1/16" to 1/4".	C2124	117.0	118.5	1.5	0.03							
				Pyrite content: 1-4% pyrite.	C2125	118.5	120.0	1.5	0.03							
				C2126	120.0	121.5	1.5	0.04								
				C2127	121.5	123.0	1.5	0.13								
134.40	136.50	MAFIC DYKE		C2128	123.0	124.5	1.5	0.06								
440.9'	447.8'			C2129	124.5	126.0	1.5	0.01								
				Dark green, fine-grained; sharp upper and lower contacts at 30 - 40° from core axis. Negligible pyrite.	C2130	126.0	127.5	1.5	0.02							
					C2131	127.5	129.0	1.5	0.03							
				C2132	129.0	130.5	1.5	0.03								
				C2133	130.5	132.0	1.5	0.03								
				C2134	132.0	134.4	2.4	0.04								
				C2135	134.4	136.5	2.1	0.02								



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Hole No. 1050-01-54  
Sheet No. 5

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm						
From	To													
136.50	163.00	LAPILLI TUFF WITH MINOR TUFF	C2136	136.5	139.0	2.5	0.05							
447.8'	534.8'		C2137	139.0	142.0	3.0	0.03							
		The lapilli tuff and tuff have the same composition. The lapilli tuff is composed of mainly mafic fragments with minor amounts of felsic fragments in an intermediate to felsic matrix.	C2138	142.0	145.0	3.0	0.04							
			C2139	145.0	148.0	3.0	0.03							
			C2140	148.0	149.5	1.5	0.05							
			C2141	149.5	151.0	1.5	0.03							
		Pyrite content: 1-8% pyrite; average: 2-3% pyrite.	C2142	151.0	152.5	1.5	NIL							
		At 149.50: 1/4" wide pyrite seam (90% pyrite) at 35° from core axis.	C2143	152.5	154.0	1.5	0.04							
			C2144	154.0	155.5	1.5	NIL							
		At 160.20: 1/4" to 1/2" wide pyrite seam (80% pyrite) at 35° from core axis.	C2145	155.5	157.0	1.5	NIL							
			C2146	157.0	158.5	1.5	NIL							
			C2147	158.5	160.0	1.5	NIL							
163.00	END OF HOLE		C2148	160.0	161.5	1.5	0.03							
534.8'			C2149	161.5	163.0	1.5	0.03							





**AMAX MINERALS EXPLORATION**  
(A Division of Amax of Canada Limited)  
**DIAMOND DRILL RECORD**

Hole No. 050-01-55  
Sheet No. 3

Footage metres/feet		DESCRIPTION	Sample No.	From	To	Length (metres)	Au ppm	Ag ppm					
From	To												
0	16.00	CASING											
0	52.5'												
16.00	17.00	BOULDERS											
52.5'	55.8'												
		Boulders of mafic flows and agglomerate.											
17.00	30.10	TUFF	C2150	17.0	21.0	4.0	NIL						
55.8'	98.8'		C2151	21.0	24.0	3.0	0.06						
			C2152	24.0	27.0	3.0	0.03						
			C2153	27.0	30.1	3.1	0.01						
			C2154	30.1	32.5	2.4	0.03						
		The tuff is light grey, massive. The tuff is felsic. Pyrite content is less than 1% to 2% pyrite.											
30.10	35.00	CRYSTAL TUFF	C2155	32.5	35.0	2.5	0.01						
98.8'	114.8'												
		Medium to dark green. Contains feldspar fragments ranging in size from 1/16" to 1/8". Scattered larger mafic fragments. Pyrite content: negligible.											
35.00	37.30	TUFF											
114.8'	122.4'												
			Same as 17.00 - 30.10. Pyrite content: 1-8% pyrite, finely disseminated.										
			C2156	35.0	37.3	2.3	0.06						
			C2157	37.3	38.3	1.0	0.03						
37.30	38.30	MAFIC DYKE											
122.4'	125.7'												
		Medium green, fine-grained and massive. Sharp upper and lower contacts. Negligible pyrite.											
38.30	51.30	TUFF	C2158	38.3	40.0	1.7	0.08						
125.7'	168.3'		C2159	40.0	41.5	1.5	0.03						
			Same as 17.00 - 30.10. (1-5% pyrite)										
			C2160	41.5	44.5	3.0	0.07						
			C2161	44.5	47.5	3.0	0.03						
			C2162	47.5	49.0	1.5	0.03						
		38.55 - 38.65: 20% pyrite (blebs). 50.20 - 50.30: 15% pyrite.											
			C2163	49.0	51.3	2.3	0.08						
51.30	53.50	LAPILLI TUFF											
168.3'	175.5'												
		The lapilli tuff is composed of light grey felsic fragments in an intermediate matrix. The matrix contains 5-10% finely disseminated py and possibly sphalerite. The size of the fragments ranges from 1/8" to 1".											
			C2164	51.3	53.5	2.2	0.69						

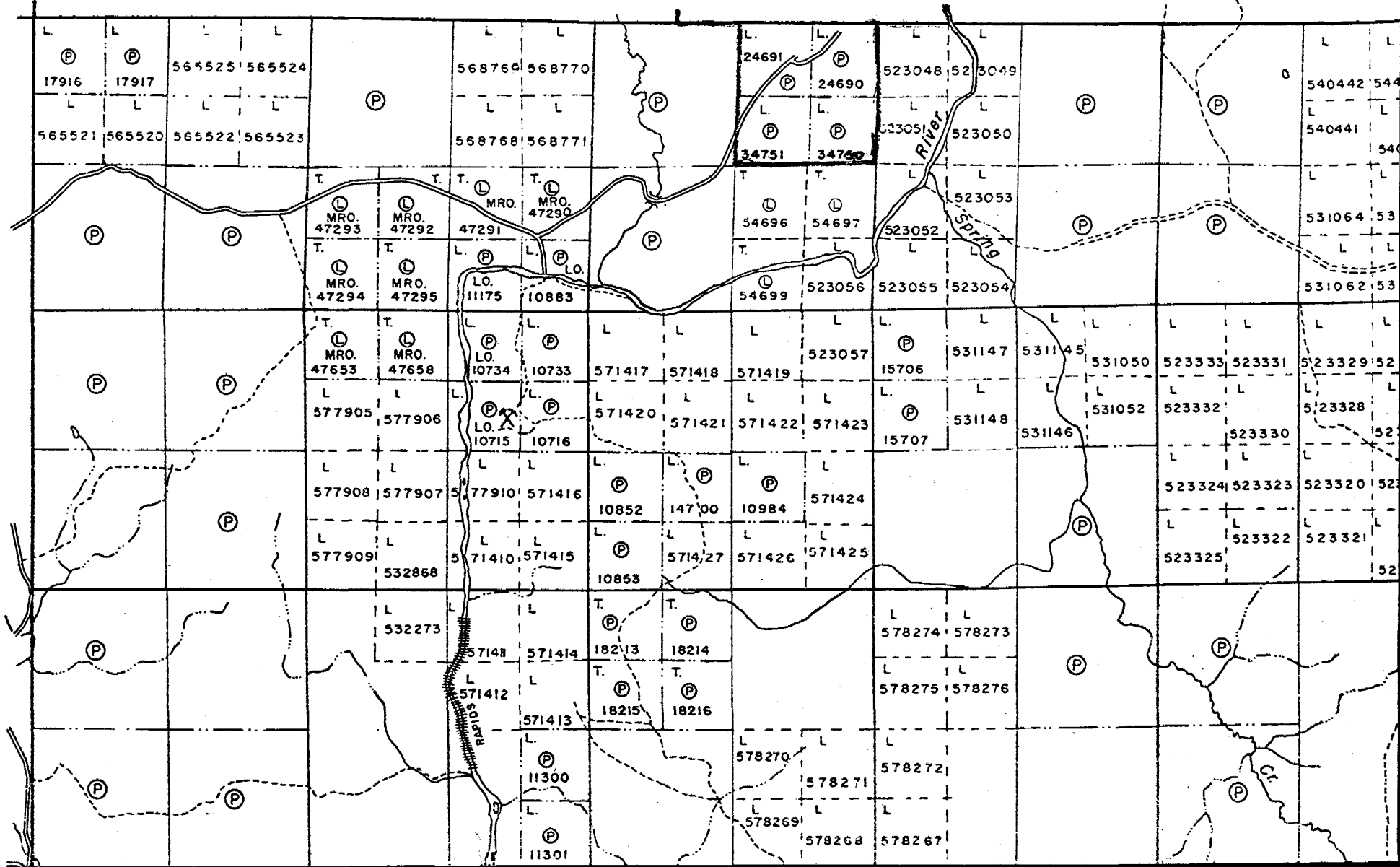
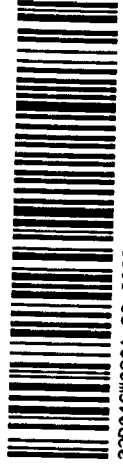




Catherine Sp.

~~McELROY TP M. 366~~

M. 336



TP M. 380







32D04SW0201 63.3963 MCELROY

050

QUARTERLY PROGRESS REPORT

QUARTERLY PROGRESS REPORT  
MIRADO PROJECT  
O.M.E.P. DESIGNATION OM73A-PE69-C-81  
April 1, 1981 to June 30, 1981

1981 DRILLING PROGRAM (2nd Quarter)

The diamond drilling program initiated in January was completed on April 13, 1981. Holes 49 to 55 inclusive, totalling 4418 feet, were drilled in April. A total of 16,756 feet in 31 holes were drilled during the 1981 program.

Holes 49 to 52 and 54 to 55 were drilled on the South Zone. Hole 53 was drilled to explore the contact between the host pyroclastics and a mafic intrusive south of the South Zone. No significant mineralization was encountered in this hole. A sketch map showing the location of the holes is attached.

The winter's drilling program was planned to drill a series of parallel holes all bearing S35<sup>0</sup>W, to explore the eastern part of the 1800 foot long South Zone in considerable detail to an average depth of about 400 feet. Six of the 7 holes drilled in April were part of this program. The drilling program tested an area roughly 600 feet along strike, 800 feet across strike and 400 feet in depth. Within this area gold occurs in sheared and altered agglomerate, lapilli tuff and tuff, usually associated with sulphides in blebs and in randomly oriented fractures and narrow seams. Although gold mineralization is widespread most values are in the low to medium range with occasional erratic highs. Higher grade shoots can be outlined, but they are difficult to trace for much more than 100 feet horizontally or vertically.

FUTURE WORK

Using data from this and other drilling programs it has been possible to outline a near surface mineralized area roughly 250 by 400 feet that can be stripped of overburden, mapped and sampled. This should provide data on the local distribution of gold and reveal if drill hole intersections give an accurate reflection of the grade. If results of the surface

sampling are favourable a large bulk sample will be extracted from the pit area and processed to determine the overall grade.

COST ESTIMATE (3rd Quarter)

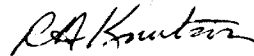
Estimated budget for the next quarter is as follows:

1. Clearing bush	\$2,800.00
2. Stripping overburden $\pm$ 22,000 cu. yds.	60,000.00
3. Equipment rentals pumps, diamond saw, jackhammers etc.	9,200.00
4. Mapping, channel sampling, assays etc.	18,000.00
5. Camp and Board - 4 men, 2 mos.	3,000.00
6. Transportation	2,000.00
7. Supervision	3,000.00
	<u>\$98,000.00</u>

PAST QUARTER EXPENDITURES

Expenditures during the 2nd quarter totalled \$ 122,922

Respectfully Submitted



R. A. Knutson

RAK/apmw

July 21, 1981

Attachments:

- #1 - Diamond Drill Logs
- #2 - Analytical Results
- #3 - Plan of Hole Locations

O.M.E.P. Progress Report (2nd Quarter 1981) Attachment #1  
Diamond Drill Logs

Hole: 1050-01-49

Group: Mirado  
Township: Catharine  
Co-ord: L - 4+17E at 3+81N; S35°W; -45°  
Commenced: March 24, 1981  
Completed: March 28, 1981

0	-	18.30	Casing
18.30	-	75.80	Tuff with minor lapilli tuff
75.80	-	107.65	Tuff
107.65	-	111.20	Mafic dyke
111.20	-	120.40	Lapilli tuff
120.40	-	132.10	Tuff
132.10	-	145.10	Lapilli tuff
145.10	-	210.70	Tuff
210.70	-	260.85	Lapilli tuff with minor mafic flows
260.85	-	262.50	Crystal tuff
262.50	-	264.30	Mafic tuff
264.30	-	276.70	Lapilli tuff
276.70	-	279.00	Crystal tuff
		279.00	End of Hole

\*\*\*\*\*

Hole: 1050-01-50

Group: Mirado  
Township: Catharine  
Co-ord: L - 2+86E at 5+69N; S35°W; -45°  
Commenced: March 28, 1981  
Completed: March 31, 1981

0		5.05	Casing
5.05	-	8.95	Lapilli tuff
8.95	-	22.85	Tuff
22.85	-	29.05	Lapilli tuff
29.05	-	93.00	Tuff with minor lapilli tuff
93.00	-	209.70	Tuff
		209.70	End of Hole

\*\*\*\*\*

Hole: 1050-01-51

Group: Mirado  
Township: Catharine  
Co-ord: L - 1+13E at 2+61N; S35<sup>0</sup>W; -45<sup>0</sup>  
Commenced: March 31, 1981  
Completed: April 3, 1981

0	-	5.30	Casing
5.30	-	42.30	Tuff and crystal tuff
42.30	-	86.70	Lapilli tuff
86.70	-	93.25	Tuff
93.25	-	98.60	Lapilli tuff
98.60	-	105.00	Tuff
105.00	-	113.60	Lapilli tuff
113.60	-	120.10	Tuff
120.10	-	128.80	Mafic flow
128.80	-	171.15	Tuff
171.15	-	175.60	Mafic flow
175.60	-	223.00	Tuff with minor crystal tuff
		223.00	End of Hole

\*\*\*\*\*

Hole: 1050-01-52

Group: Mirado  
Township: Catharine  
Co-ord: L - 0+13W at 0+00; S35<sup>0</sup>W; -45<sup>0</sup>  
Commenced: April 3, 1981  
Completed: April 5, 1981

0	-	8.00	Casing
8.00	-	60.10	Lapilli tuff with minor tuff
60.10	-	87.00	Tuff with minor lapilli tuff
87.00	-	118.00	Lapilli tuff
118.00	-	127.00	Agglomerate
127.00	-	150.30	Lapilli tuff
150.30	-	154.45	Tuff
		154.45	End of Hole

\*\*\*\*\*

Hole: 1050-01-53

Group: Mirado  
Township: Catharine  
Co-ord: L - 6+00E at 4+49S; S35<sup>0</sup>W; -45<sup>0</sup>  
Commenced: April 6, 1981  
Completed: April 8, 1981

0	-	30.80	Casing
30.80	-	35.00	Agglomerate
35.00	-	45.40	Tuff and crystal tuff
45.40	-	56.70	Agglomerate and lapilli tuff
56.70	-	143.50	Tuff and crystal tuff and mafic dykes
143.50	-	150.50	Lapilli tuff
150.50	-	162.00	Peridotite
		162.00	End of Hole

\*\*\*\*\*

Hole: 1050-01-54

Group: Mirado  
Township: Catharine  
Co-ord: L 1+12W at 0+00; S35<sup>0</sup>W; -45<sup>0</sup>  
Commenced: April 8, 1981  
Completed: April 10, 1981

0	-	13.70	Casing
13.70	-	16.10	Tuff
16.10	-	45.30	Intermediate flow
45.30	-	52.80	Lapilli tuff
52.80	-	67.90	Tuff
67.90	-	123.00	Lapilli tuff
123.00	-	132.00	Tuff
132.00	-	134.40	Lapilli tuff
134.40	-	136.50	Mafic dyke
136.50	-	163.00	Lapilli tuff with minor tuff
		163.00	End of Hole

\*\*\*\*\*

Hole: 1050-01-55

Group: Mirado  
Township: Catharine  
Co-ord: L 0+54E at 1+24S; S35<sup>0</sup>W; -45<sup>0</sup>  
Commenced: April 10, 1981  
Completed: April 12, 1981

0	-	16.00	Casing
16.00	-	17.00	Boulders
17.00	-	51.30	Tuff
51.30	-	81.00	Lapilli tuff
81.00	-	103.20	Tuff and crystal tuff
103.20	-	107.30	Lapilli tuff
107.30	-	111.00	Mafic flow
111.00	-	156.00	Tuff and crystal tuff
		156.00	End of Hole

\*\*\*\*\*

O.M.E.P. Progress Report (2nd Quarter 1981) Attachment #2  
 Analytical Results - Assays above 0.03 oz./Au/Ton

<u>Hole Number</u>	<u>From (m)</u>	<u>To (m)</u>	<u>Length (m)</u>	<u>Au (ppm)</u>
1050-01-43	47.65	48.50	0.85	3.50
	90.00	91.50	1.50	2.07
	91.50	93.00	1.50	1.20
	97.50	99.00	1.50	1.29
	138.00	139.50	1.50	1.68
	154.30	155.40	1.10	8.10
	169.00	170.00	1.00	5.61
	176.90	178.40	1.50	1.69
	222.45	225.00	2.55	7.00
	228.00	229.50	1.50	2.72
	229.50	230.00	0.50	5.83
	233.00	233.75	0.75	1.12
	240.50	243.00	2.50	1.10
	243.00	244.50	1.50	5.76
	264.30	265.50	1.20	19.89
1050-01-49	45.00	46.50	1.50	1.99
	46.50	48.00	1.50	1.53
	51.00	52.50	1.50	1.20
	52.50	54.00	1.50	1.23
	123.00	124.60	1.60	1.14
	137.50	139.00	1.50	1.06
	151.50	153.00	1.50	1.43
	159.00	162.00	3.00	7.17
	162.00	165.00	3.00	1.43
	181.50	183.00	1.50	6.62
	210.00	213.00	3.00	2.02
	235.50	237.00	1.50	3.65
	265.50	267.00	1.50	4.37
	267.00	268.50	1.50	5.54
1050-01-50	75.00	77.00	2.00	24.35
	77.00	78.00	1.00	31.39
	114.00	115.50	1.50	2.28
	120.00	123.00	3.00	4.04
	129.00	132.85	3.85	1.56
	154.50	156.00	1.50	1.47
1050-01-51	5.30	7.50	2.20	2.26
	7.50	9.00	1.50	0.99
	9.00	10.50	1.50	1.58
	21.00	24.00	3.00	1.04
	55.50	57.00	1.50	9.61
	135.00	138.00	3.00	2.18
	144.00	145.50	1.50	4.49
	145.50	147.00	1.50	2.03
1050-01-52	10.50	12.00	1.50	1.23
	21.00	22.50	1.50	1.94
	34.50	36.00	1.50	1.01
	57.00	38.50	1.50	1.83
0150-01-54	40.00	41.50	1.50	1.19
1050-01-55	55.00	56.50	1.50	1.36
	66.00	67.50	1.50	2.63
	69.00	70.50	1.50	1.46

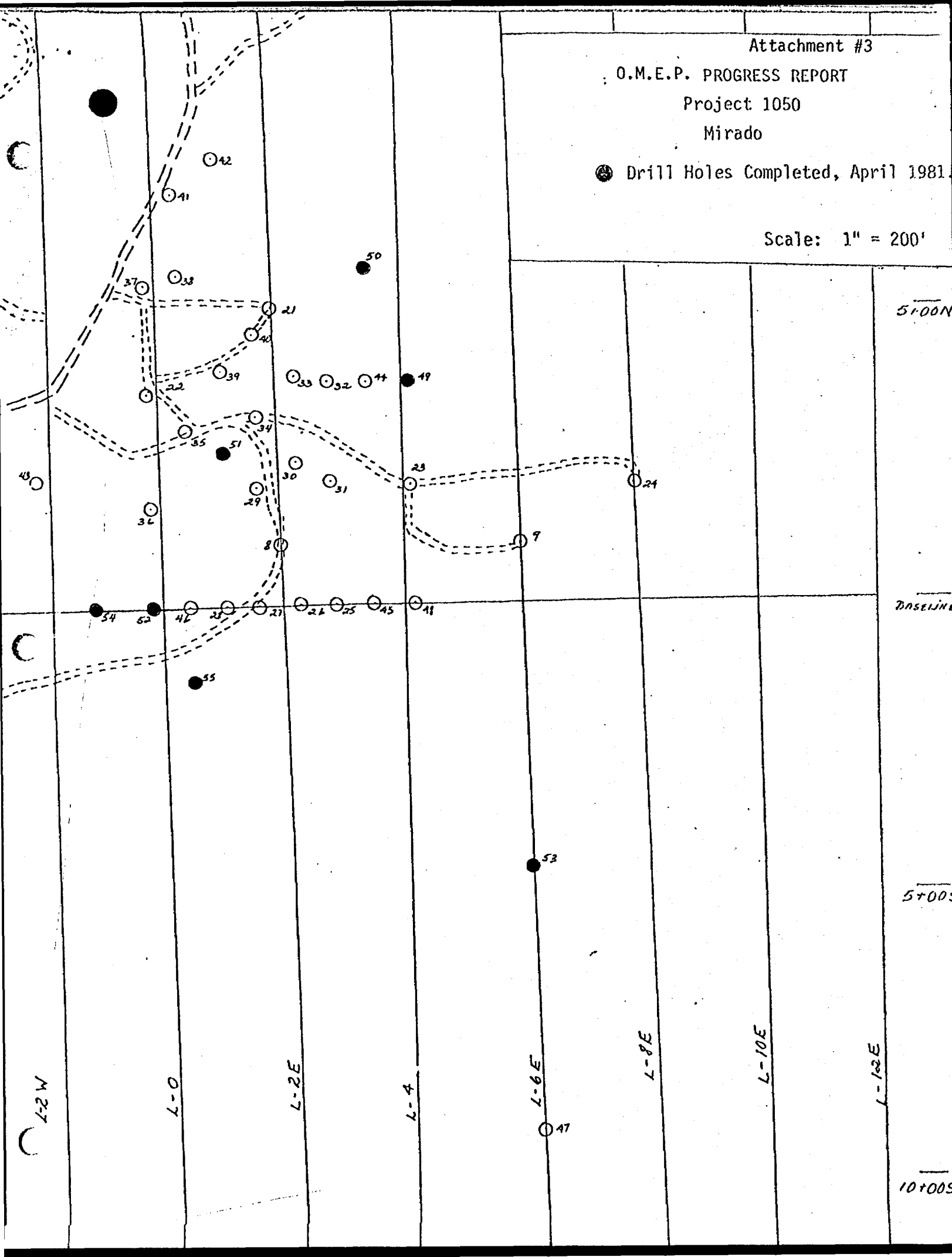
O.M.E.P. PROGRESS REPORT

Project 1050

Mirado

● Drill Holes Completed, April 1981

Scale: 1" = 200'



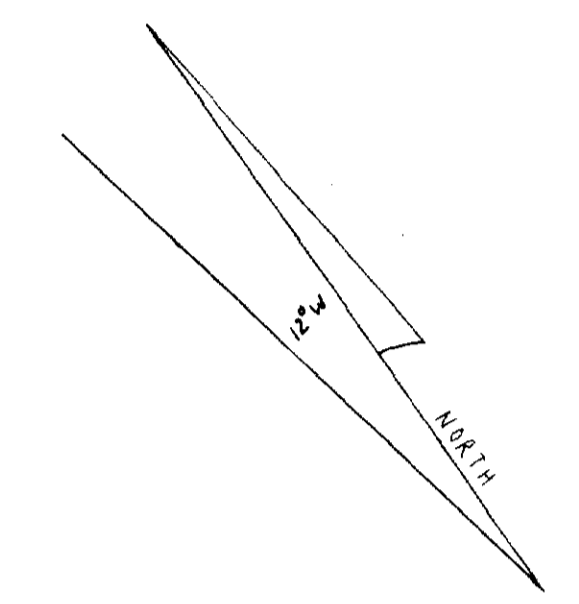
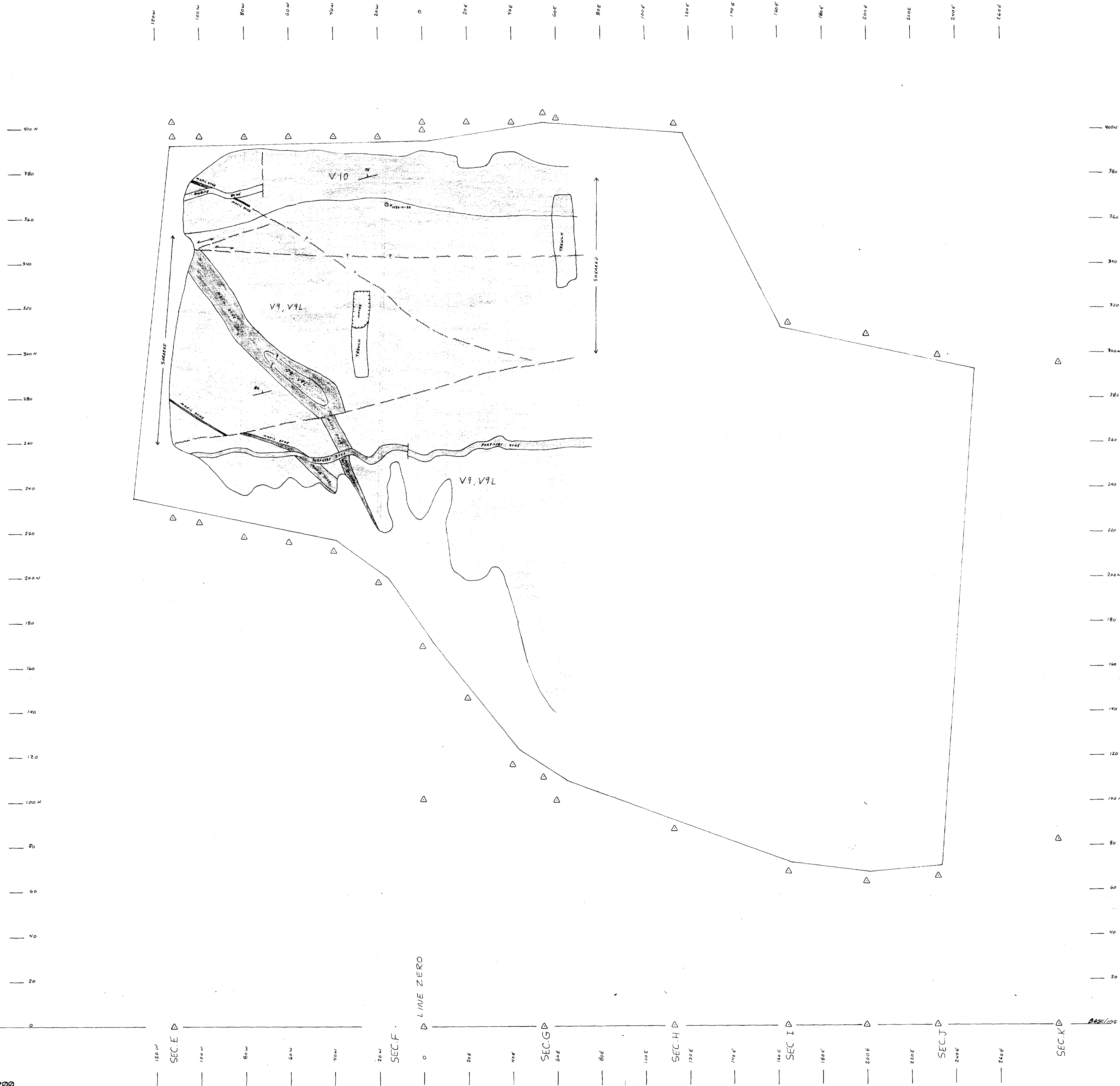
5+00M

BASELINE

5+00S

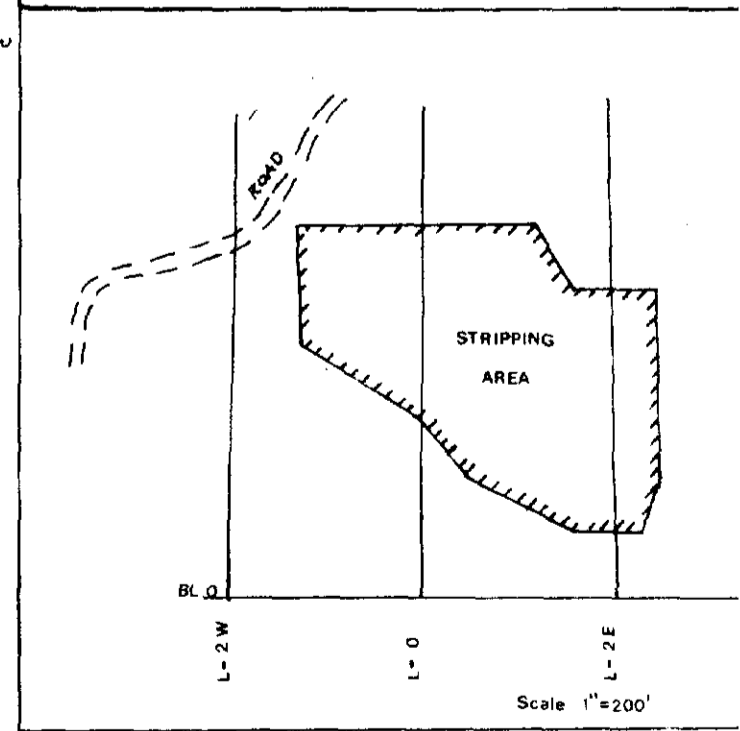
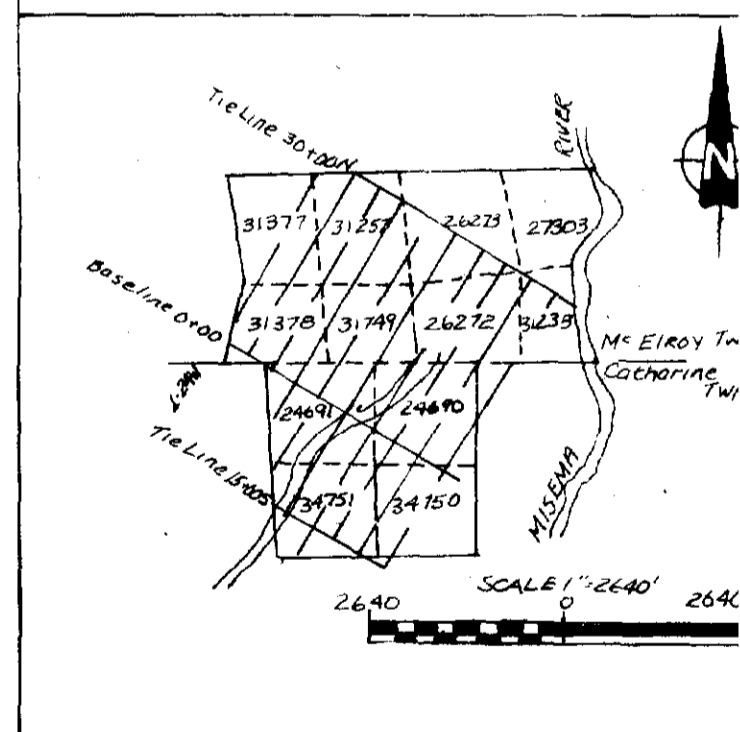
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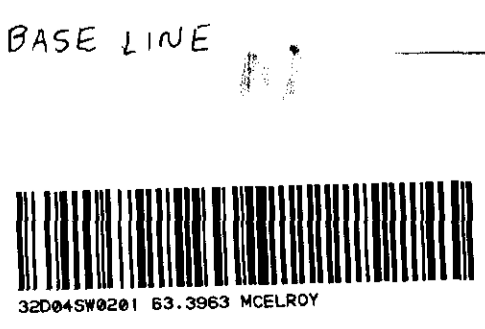


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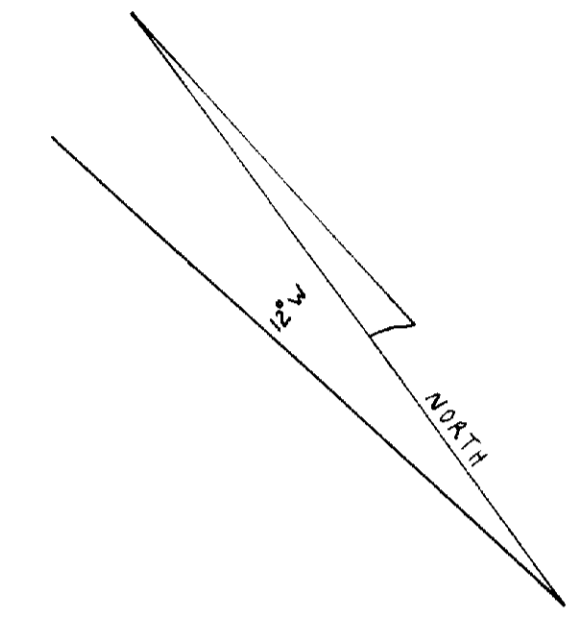
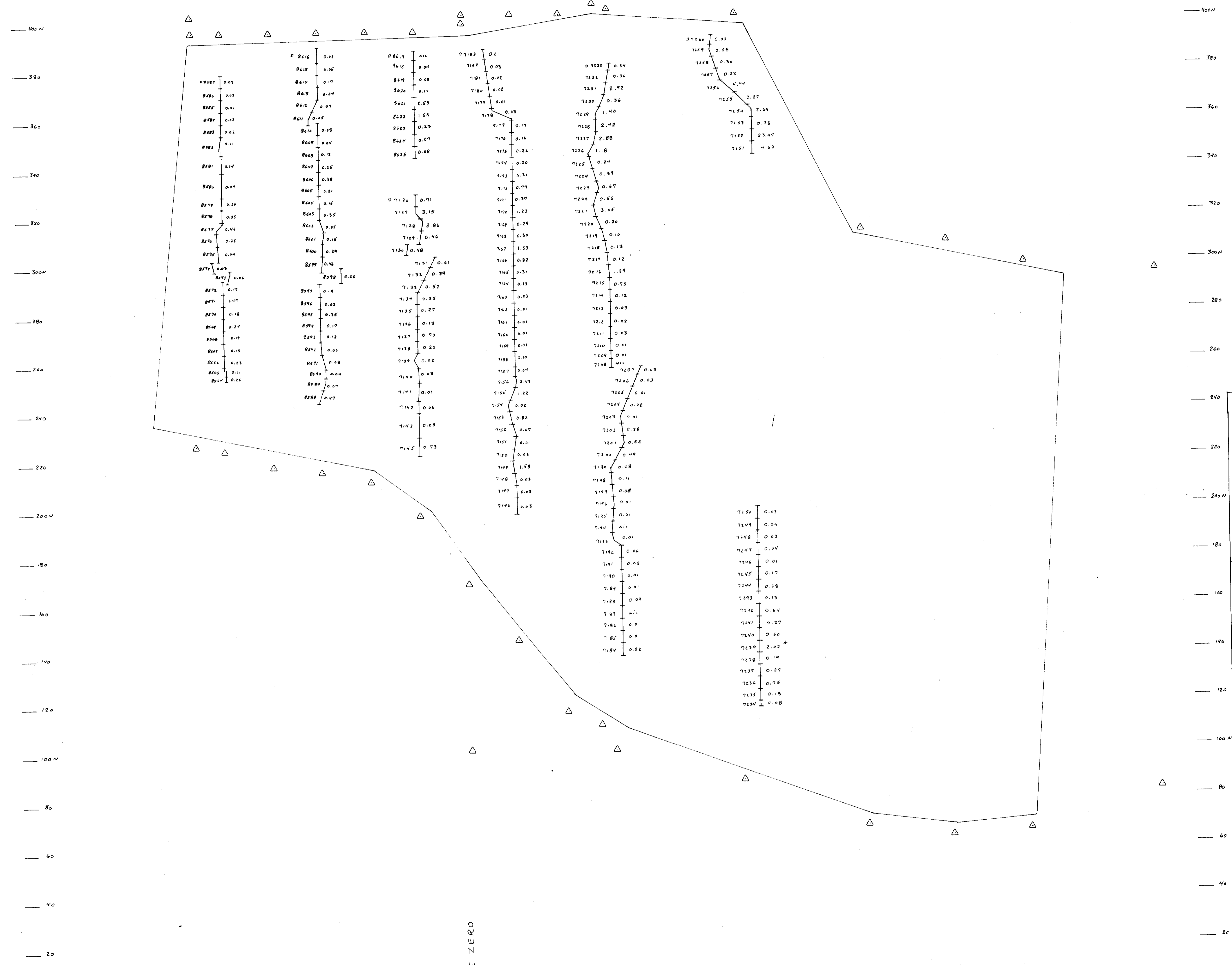
- V9 TUFF
- V9L LAPILLI TUFF
- V10 AGGLOMERATE
- ~ GEOLGICAL CONTACT
- ~ FAULT ZONE
- ~ GEOLGICAL STRIKE, DIP
- TRENCH
- DRILL HOLE
- △ SURVEYED POINT
- STRIPPED AREA (TOP OF THE SLOPE)



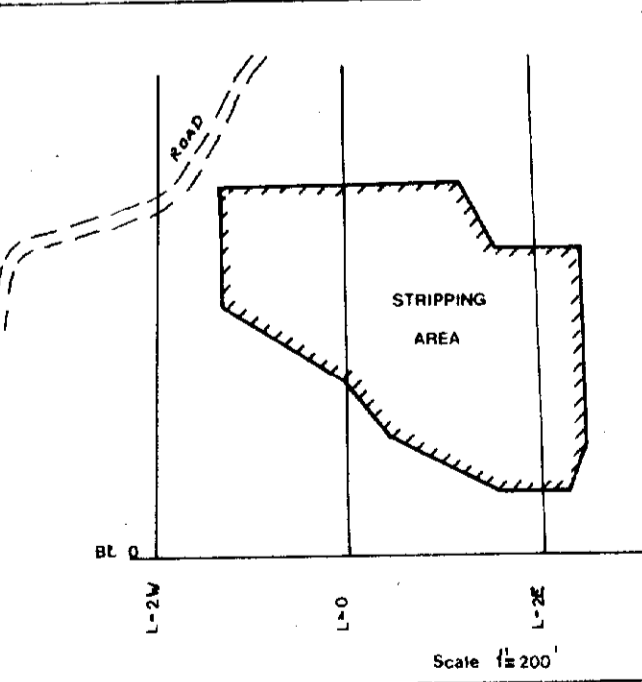
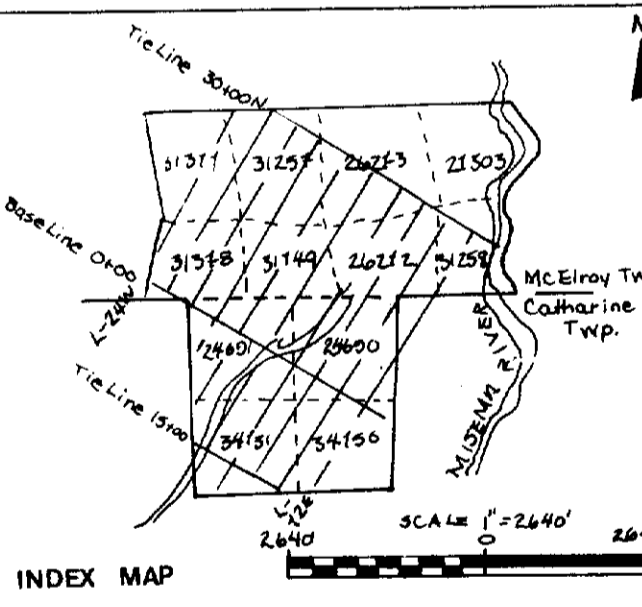
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 Amax Minerals Exploration  
 Geology Map  
 PROJECT 1050-01  
 NORTHEASTERN ONTARIO  
 SCALE: 1" = 20'  
 DATE : NOVEMBER '81 PROJ: 1050-01  
 DRAWN BY: G. TREMBLAY TWP: M'ELROY  
 CATHARIS



120W 100W 80W 60W 40W 20W 0 20E 40E 60E 80E 100E 120E 140E 160E 180E 200E 220E 240E 260E

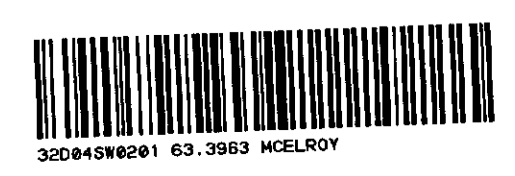


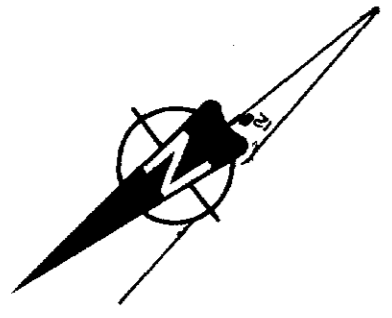
**LEGEND**  
 SAMPLE # | GOLD VALUE IN PPM  
 △ SURVEYED POINT  
 — STRIPPED AREA (TOP OF THE SLOPE)



63.3963  
 AMAX MINERALS EXPLORATION  
 Sample Location Map  
 MIRADO PROJECT 1050-01  
 NORTHEASTERN ONTARIO  
 SCALE 1"=20'

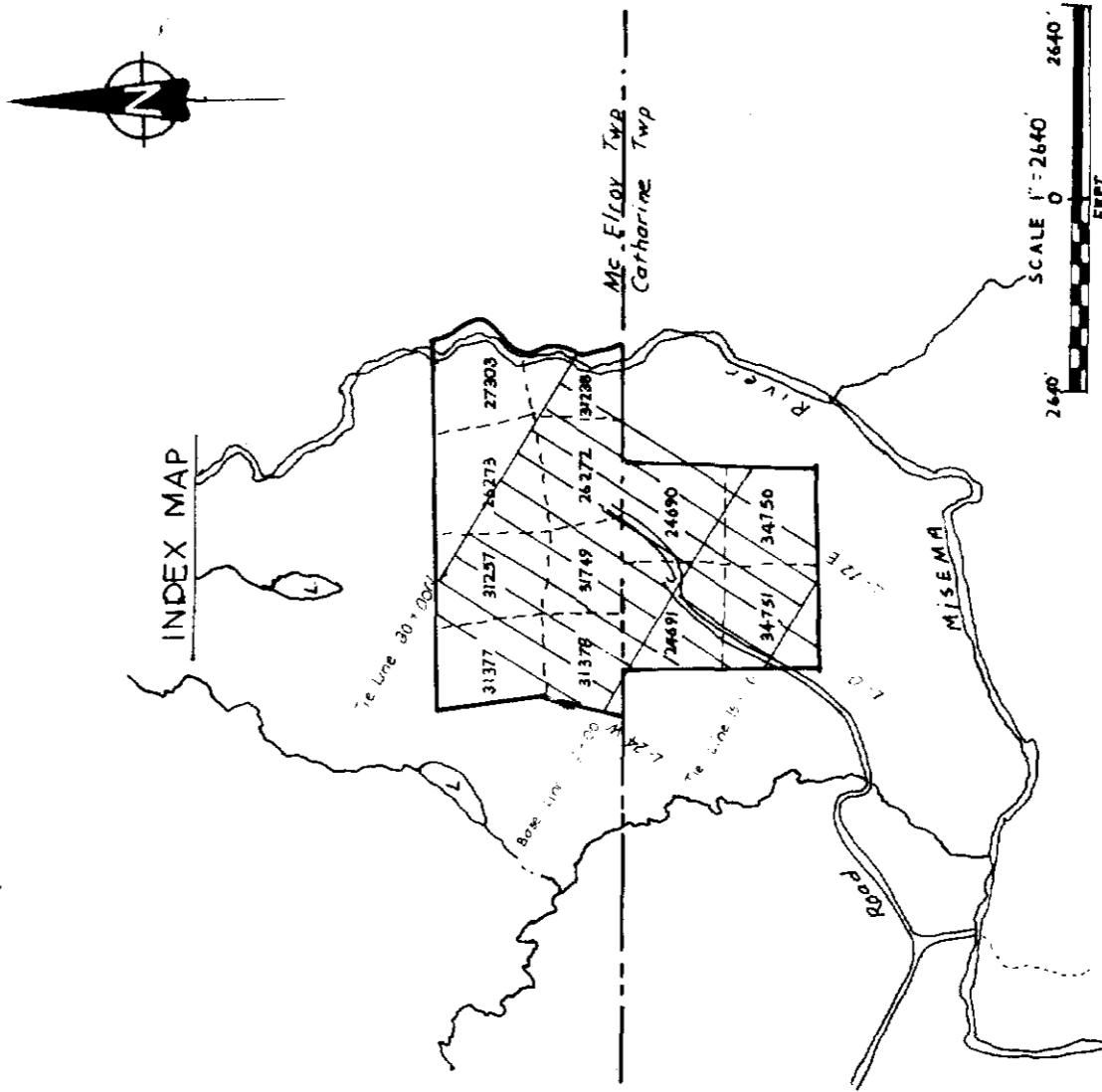
DATE: NOVEMBER 1991 PROJ: 1050-01  
 DRAWN BY: G. TREMBLAY TWP. McELROY, CATHARINE





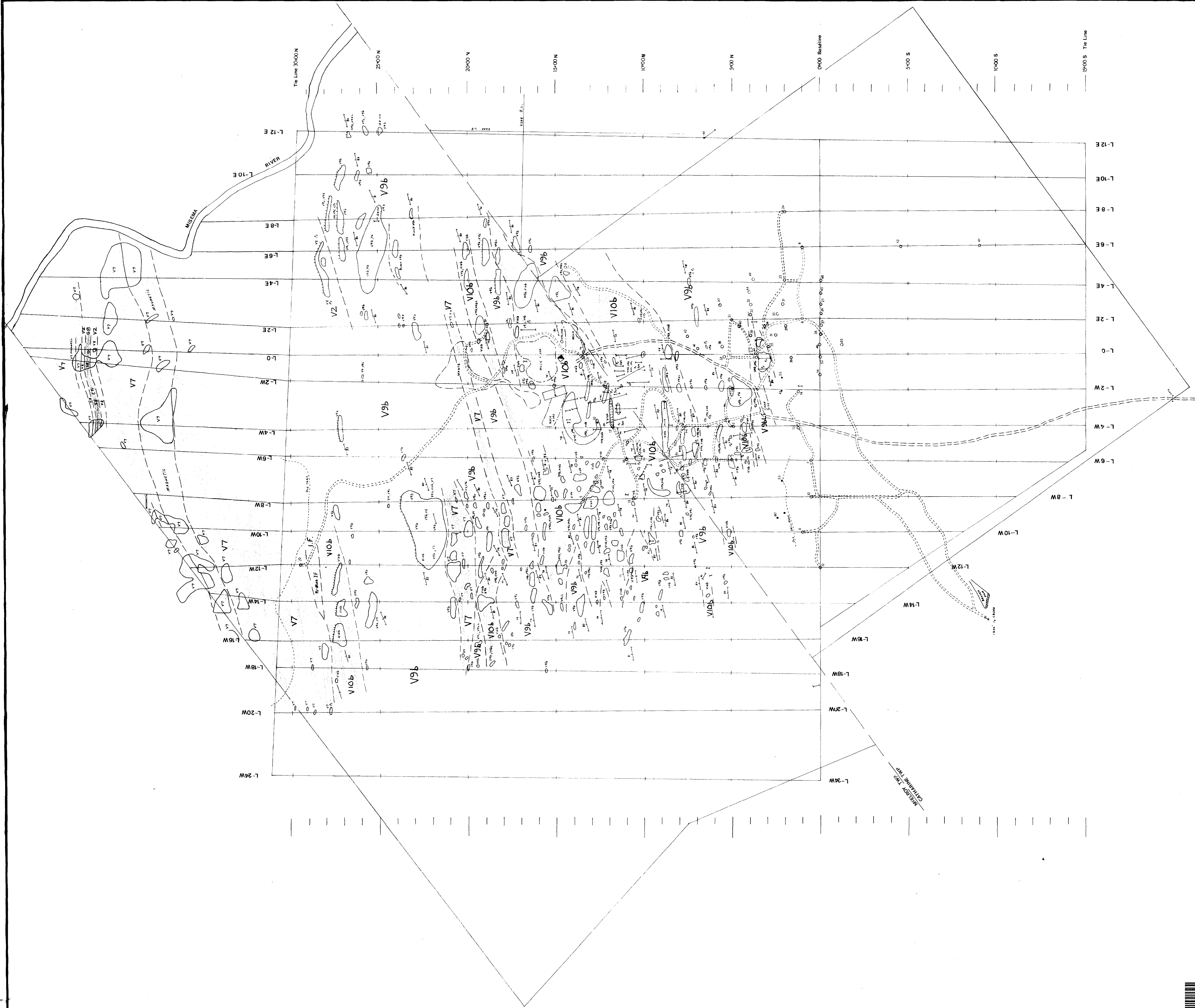
LEGEND

- V2 RAYOLITE
  - V4 DACITE
  - V6 ANDESITE
  - V7 BASALT
  - V9a INTERMEDIATE TUFF
  - V9b INTERMEDIATE LAPILLI TUFF
  - V10a MAFIC TUFF
  - V10b MAFIC LAPILLI TUFF
  - V10c INTERMEDIATE AGGLOMERATE
  - V10d ARGILLITE
  - SP SPALHERITE
  - SPn SPALHERITE (Narrow)
  - P PIRITE
  - Meg MAGNETITE
  - I.F. IRON FORMATION
  - Q. V. QUARTZ VEIN
  - < MINOR AMOUNT OF
- 
- SYMBOLS
  - SHAFT
  - TRENCH
  - OUTCROP
  - GEOLOGICAL CONTACT (unconformity)
  - CLIFF
  - TOWNSHIP LINE
  - GRAVEL ROAD
  - DRILL ROAD
  - OLD DRILL ROAD
  - AMAX DRILL HOLE OLD DRILL HOLE
  - FOLIATION (inclined)
  - FOLIATION (unknown)
  - RIVER
  - PROPERTY BOUNDARY

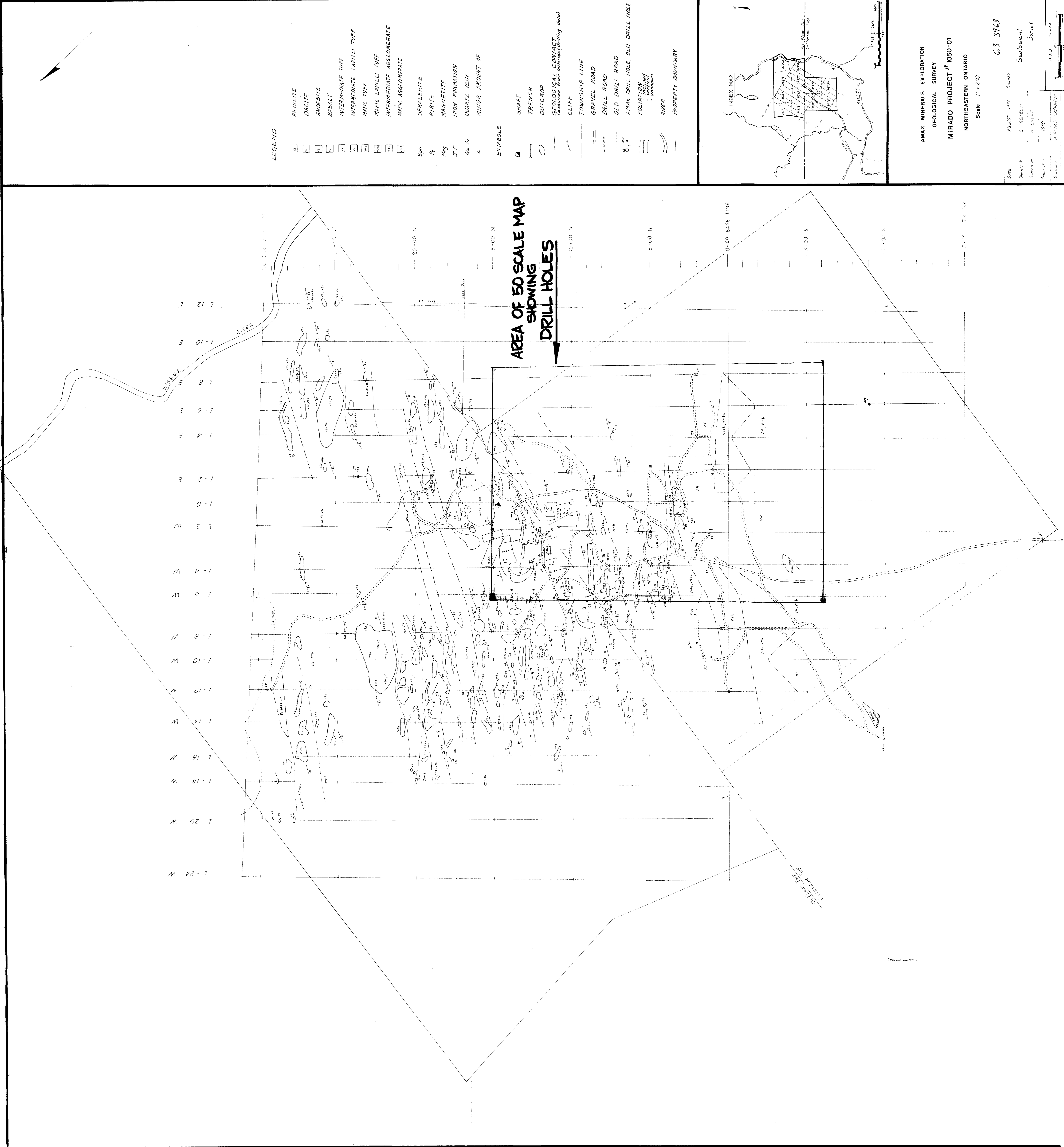


AMAX MINERALS EXPLORATION  
GEOLOGICAL SURVEY  
MIRADO PROJECT # 1050-01  
NORTHEASTERN ONTARIO  
Scale 1" = 200'

DATE	AUGUST 1980	SURVEY	63-3963
DRAWN BY	G. TREMBLAY	Geological	
PROJECT #	1050	Survey	
REVISION			
BY	A. ELLIOTT		
DATE			



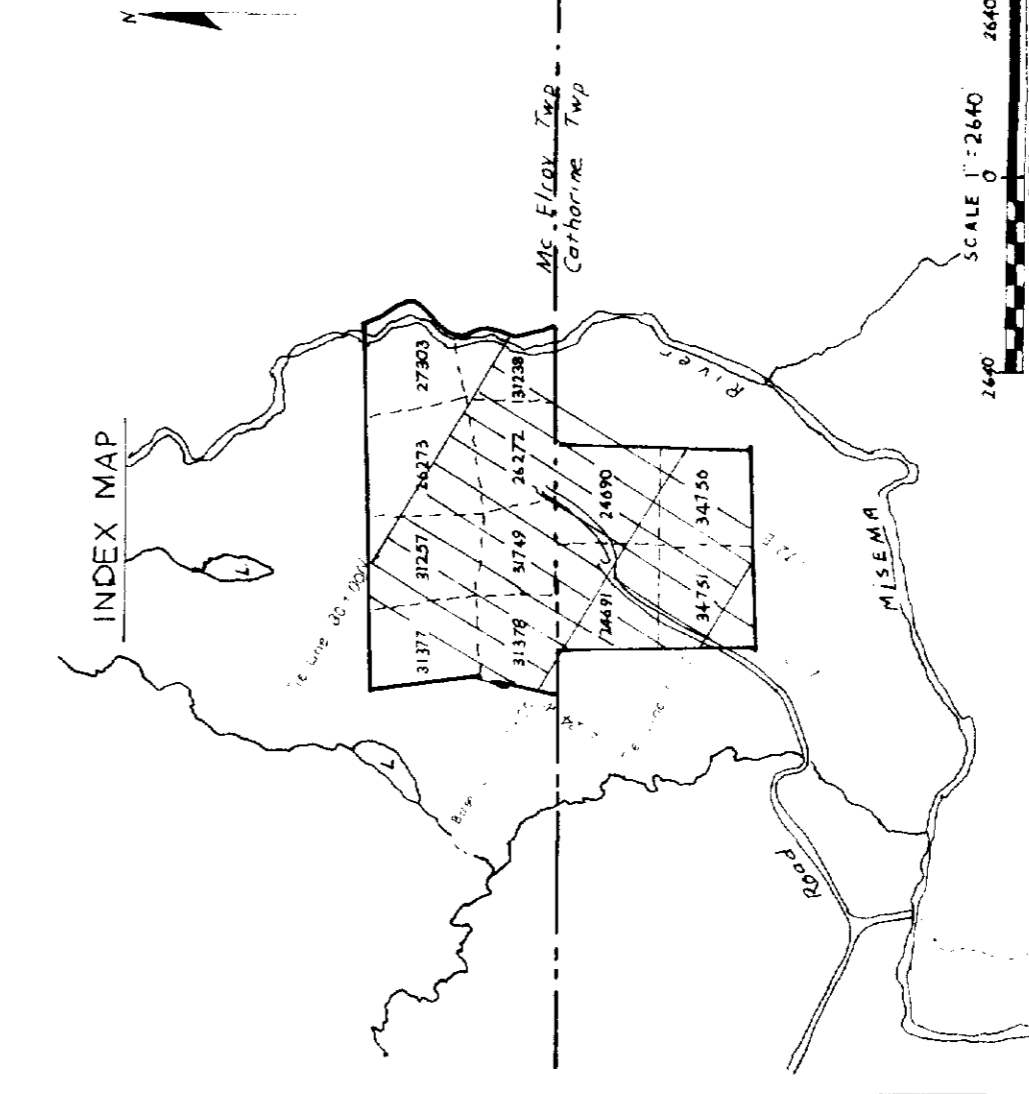




**LEGEND**

- RYHOLITE
  - DACITE
  - ANDESITE
  - BASALT
  - INTERMEDIATE TUFF
  - INTERMEDIATE LAPILLI TUFF
  - MAFIC TUFF
  - MAFIC LAPILLI TUFF
  - INTERMEDIATE AGGLOMERATE
  - MAFIC AGGLOMERATE
  - SPHALERITE
  - PYRITE
  - MAGNETITE
  - IRON FORMATION
  - QUARTZ VEIN
  - MINOR AMOUNT OF
- SYMBOLS**
- SHAFT
  - TRENCH
  - OUTCROP
  - GEOLOGICAL CONTACT (assumed from stratigraphic column data)
  - CLIFF
  - TOWNSHIP LINE
  - GRAVEL ROAD
  - DRILL ROAD
  - OLD DRILL ROAD
  - AMAX DRILL HOLE, OLD DRILL HOLE
  - FOLIATION (Dip-slip, Unconformity, Unknown)
  - RIVER
  - PROPERTY BOUNDARY

**AREA OF 50 SCALE MAP  
SHOWING  
DRILL HOLES**

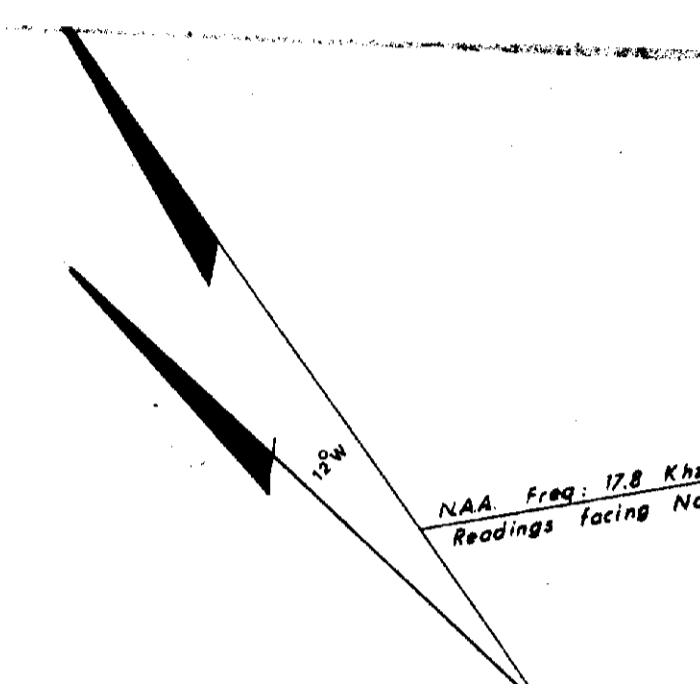
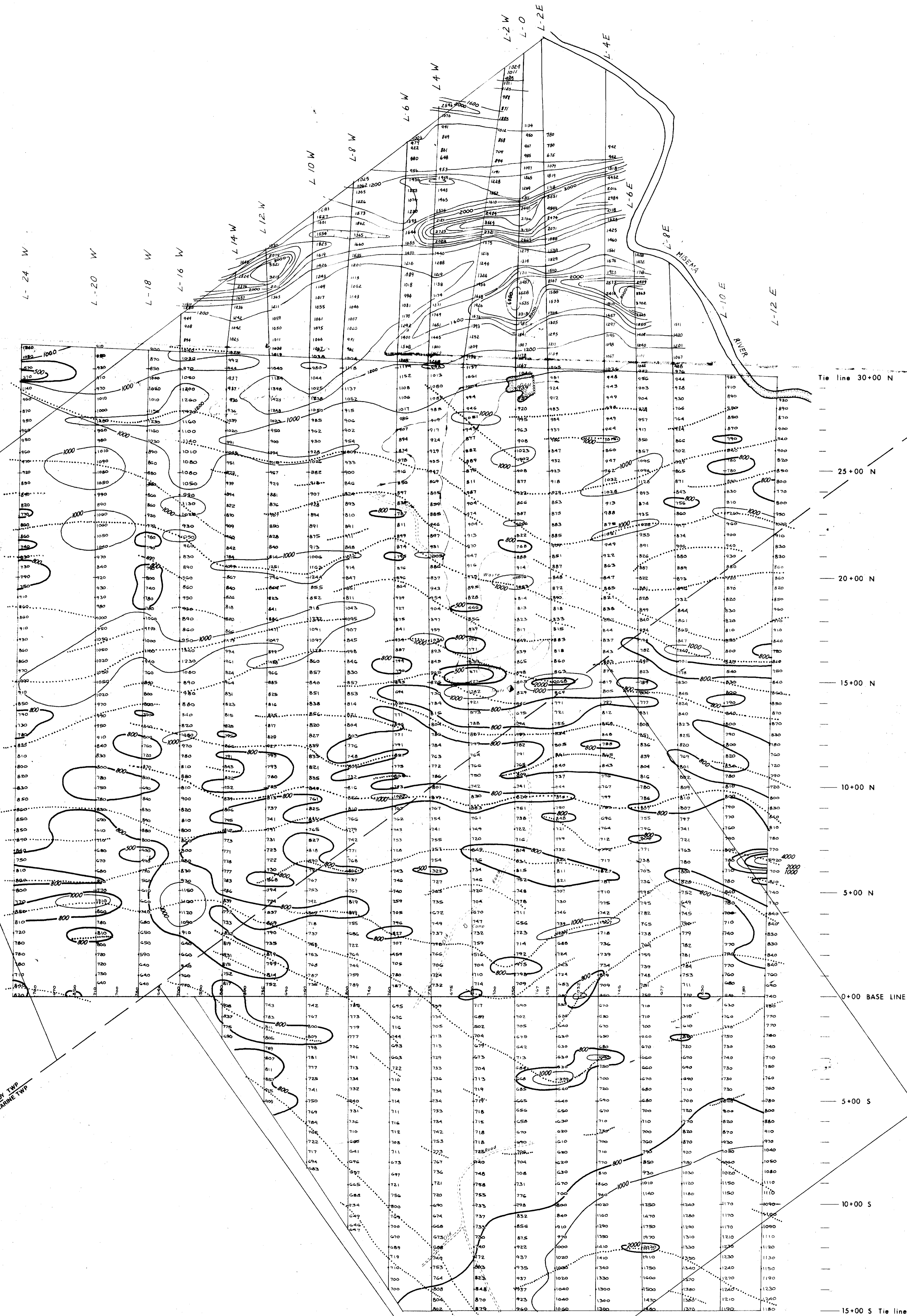


AMAX MINERALS EXPLORATION  
GEOLOGICAL SURVEY  
MIRADO PROJECT # 1050 01  
NORTHEASTERN ONTARIO  
Scale 1" = 200'

DATE: AUGUST 1980  
DRAWN BY: G. FRENCH  
PROJECT #: 1050  
SCALE: 1" = 200'

63-5963  
Geological Survey

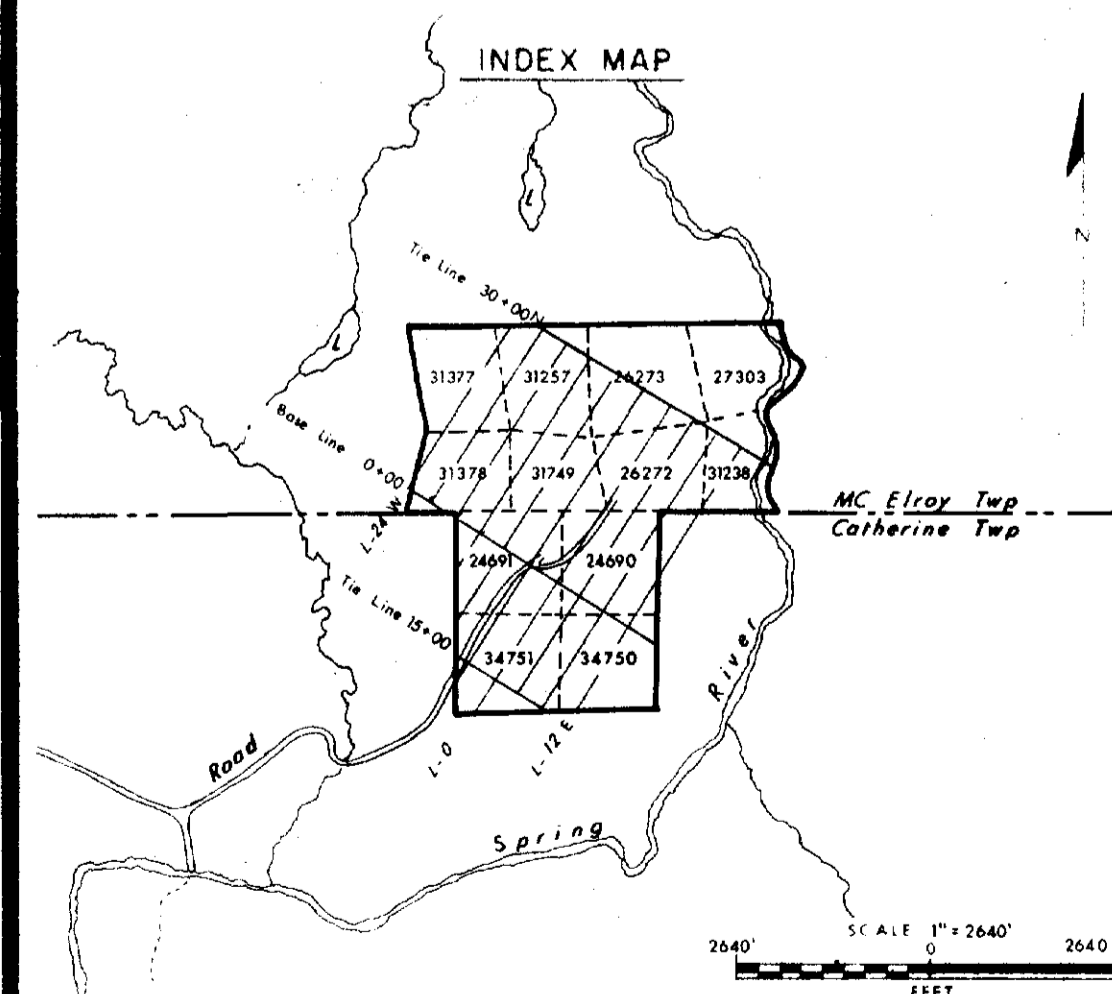
AMAX MINERALS EXPLORATION  
GEOLOGICAL SURVEY  
MIRADO PROJECT # 1050 01  
NORTHEASTERN ONTARIO  
Scale 1" = 200'



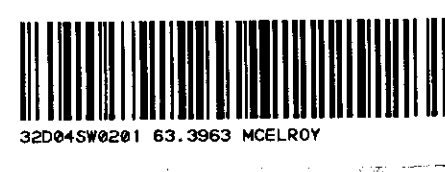
**LEGEND**

- Claim Outline Boundary
- Ground V.L.F. anomaly
- V.L.F. Fraser method contour
- V.L.F. Profile
- Short cable
- D.D.H. proposed
- Outcrop
- Creek
- Swamp

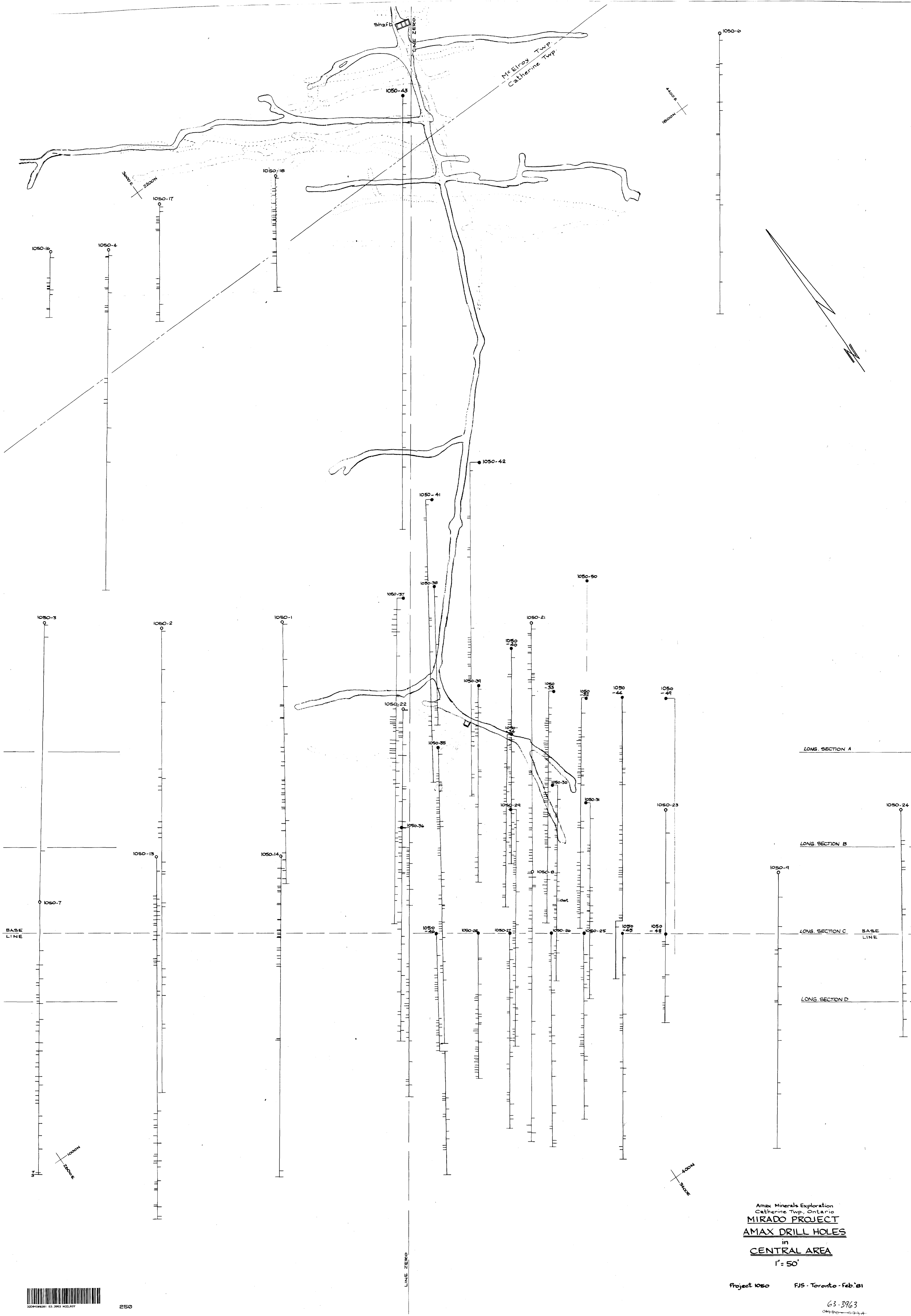
NOTE: Add 58000 gammas for true readings.



FOR		Amax of Canada Limited	
SURVEY		LEVE MAGNETIQUE	
		Instr: Geometric G-816	
BY		GEOLA LTEE	
PREPARED BY	J.P. Cloutier Tech. May 1980	PROJECT:	63-3963
INTERPRETED BY	C. Lavoie P.A.D. May 1980	Mc ELROY - CATHERINE PROJECT	
DRAWN BY	B. Moreau Tech. May 1980	DATE:	DM736-PL 69-C-81
APPROVED BY		LAT	LONG.
REVISIONS BY		SCALE 1"=200'	
PLAN No 30-01	NTS.	0 200 400 FEET	

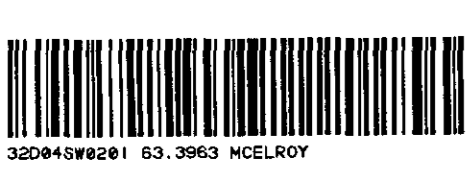


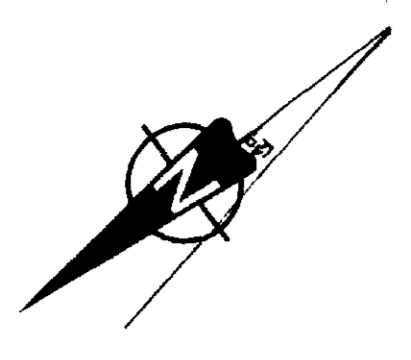




Amex Minerals Exploration  
 Catherine Twp, Ontario  
**MIRADO PROJECT**  
**AMAX DRILL HOLES**  
 in  
**CENTRAL AREA**  
 1" = 50'

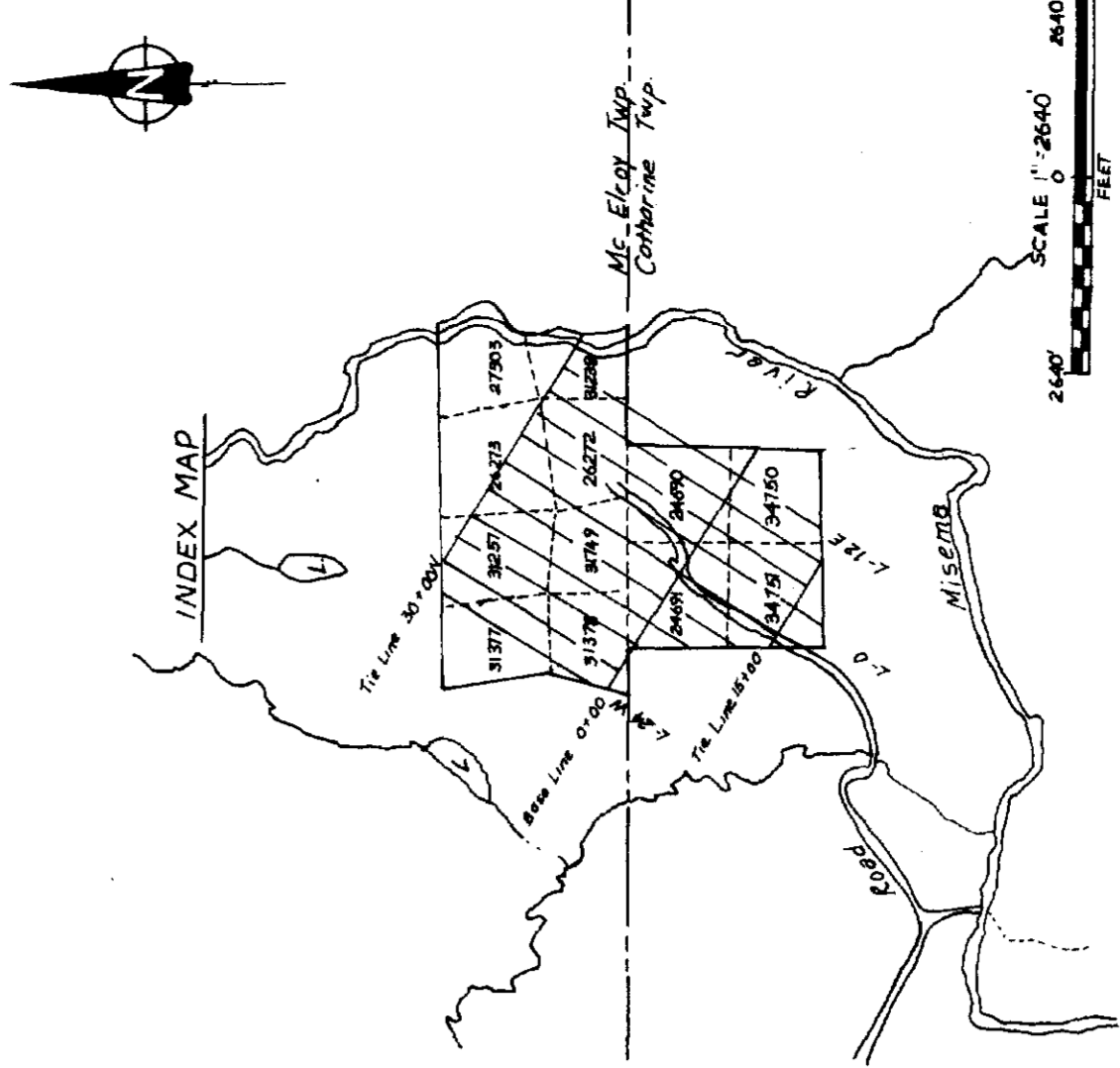
Project 1050 FJS - Toronto - Feb '81





SYMBOLS

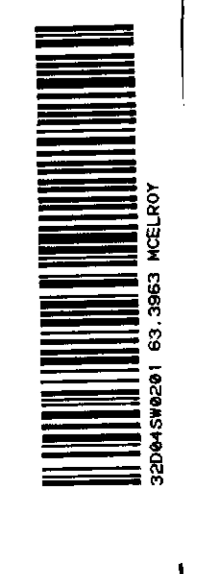
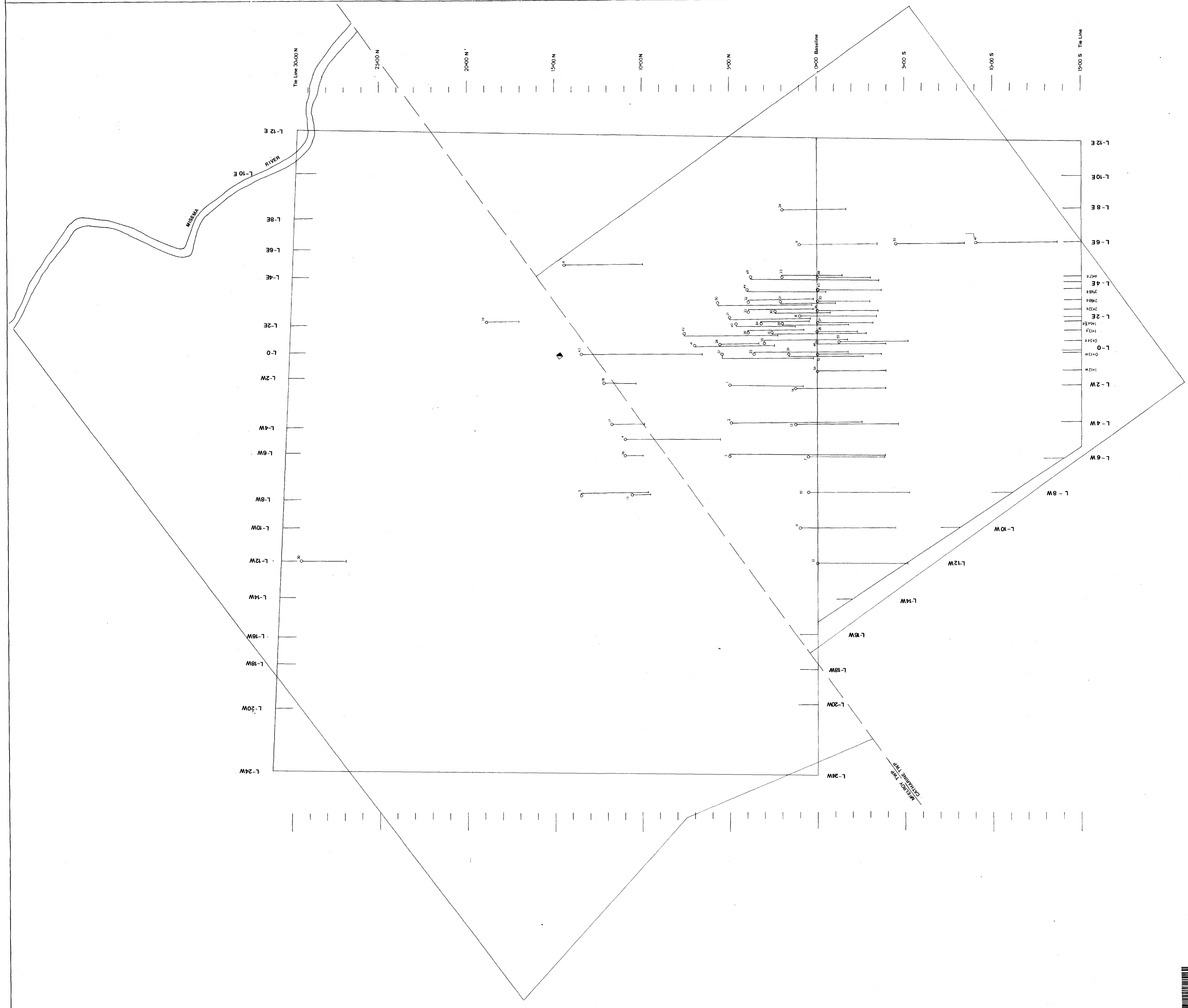
- DIAMOND DRILL HOLE
- 1050-01-9
- SHAFT
- CLAIM BOUNDARY
- TOWNSHIP LINE

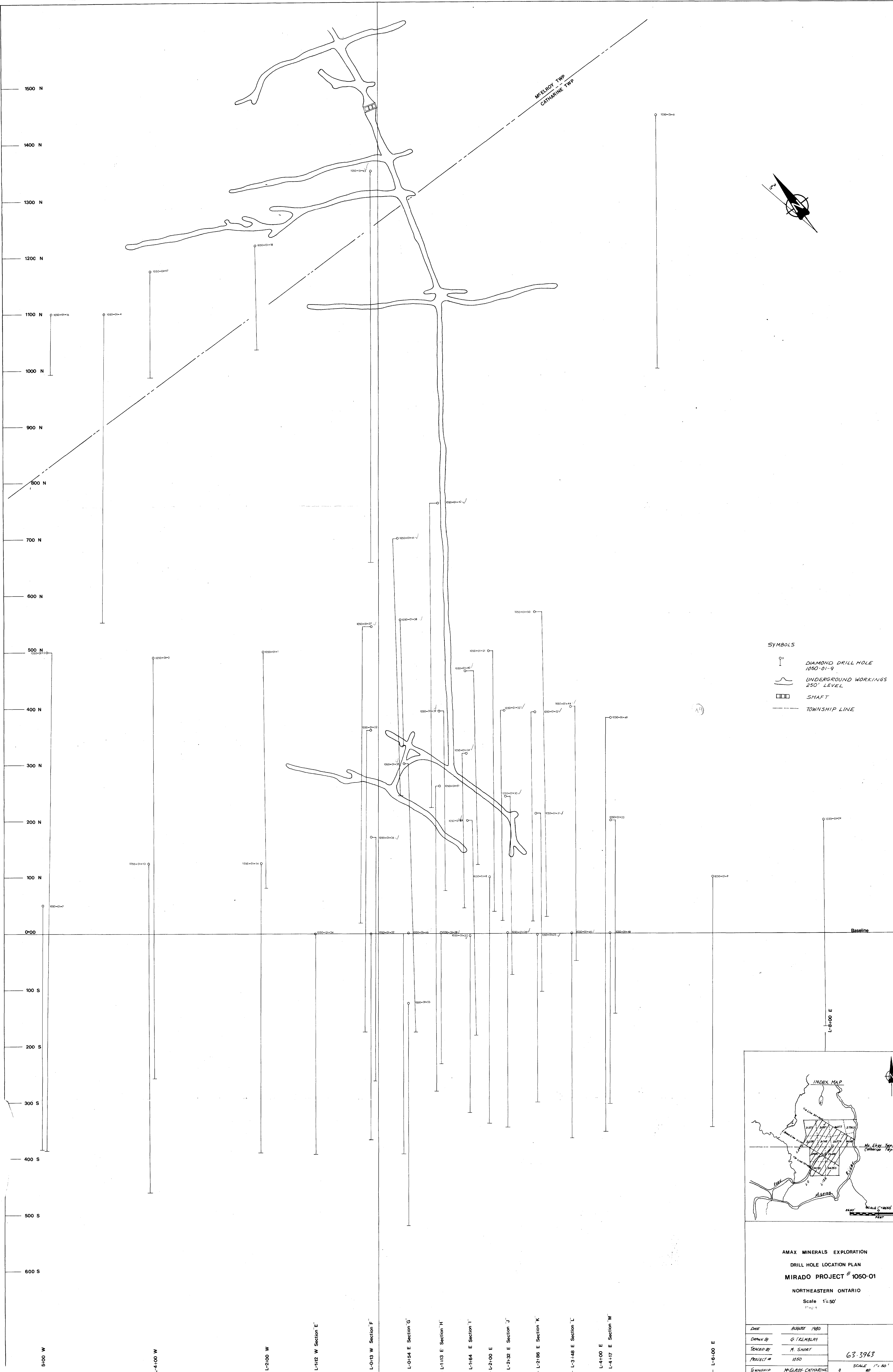


AMAX MINERALS EXPLORATION  
 DRILL HOLE LOCATION PLAN  
 MIRADO PROJECT # 1050-01  
 NORTHEASTERN ONTARIO  
 Scale: 1" = 200'

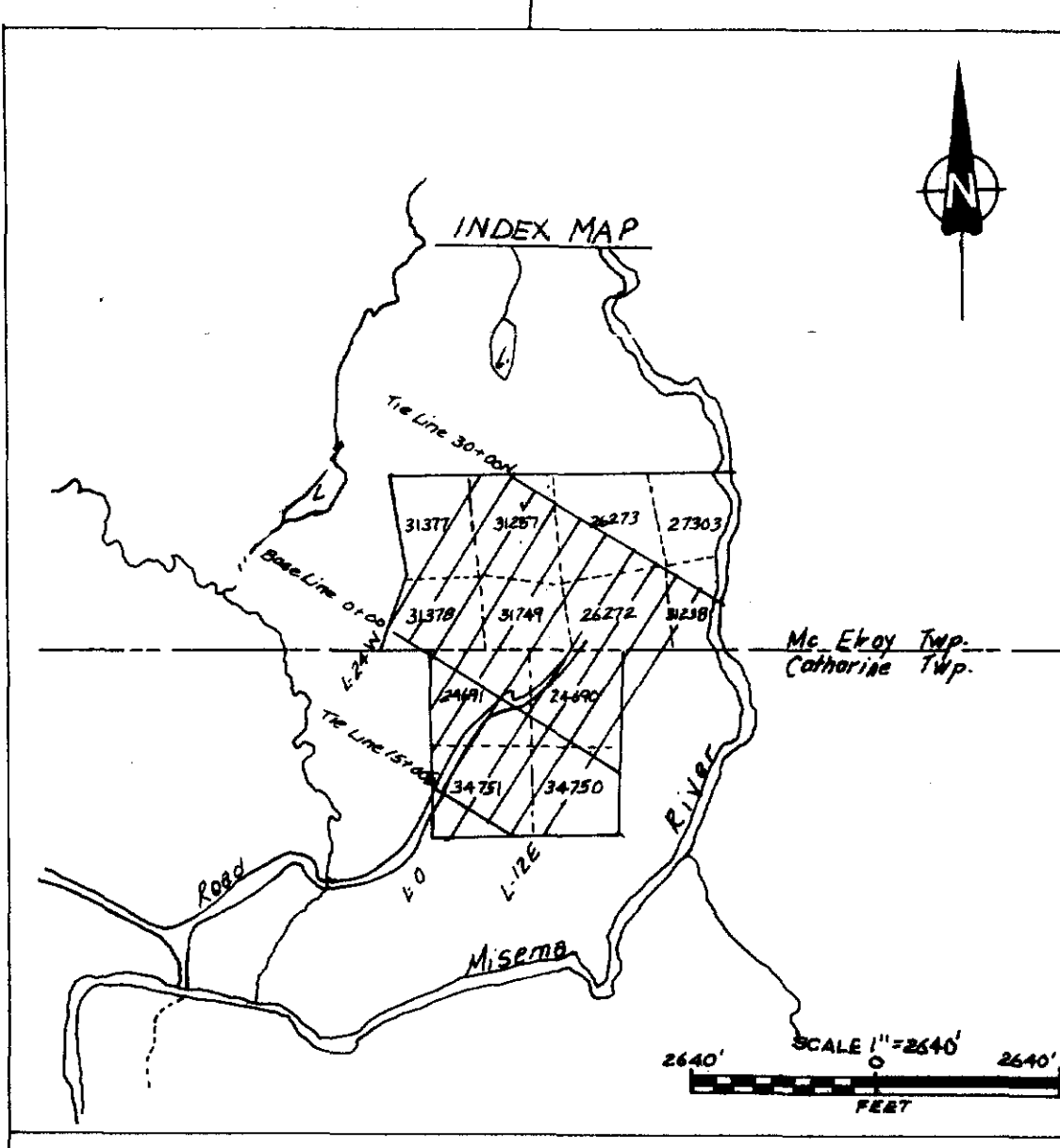
DATE	AUGUST 1980
DRAWN BY	G. TREMBLAY
CHECKED BY	M. SHURT
PROJECT #	1050
REVISION	McEWEN - CATHARINE
NTS	04/15/80 - TEL# 1-57

G.S. 3763  
 SCALE 1" = 200'  
 FEET





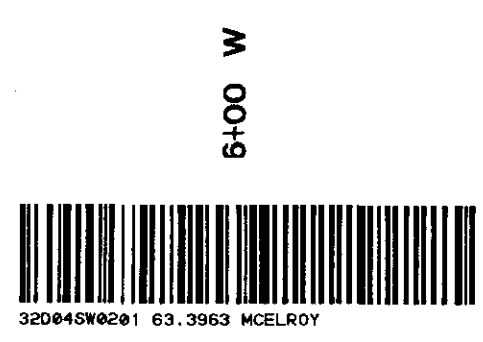
- SYMBOLS**
- DIAMOND DRILL HOLE  
1050-01-9
  - ⎓ UNDERGROUND WORKINGS  
250' LEVEL
  - SHAFT
  - - - TOWNSHIP LINE



AMAX MINERALS EXPLORATION  
 DRILL HOLE LOCATION PLAN  
**MIRADO PROJECT # 1050-01**  
 NORTHEASTERN ONTARIO  
 Scale 1"=50'

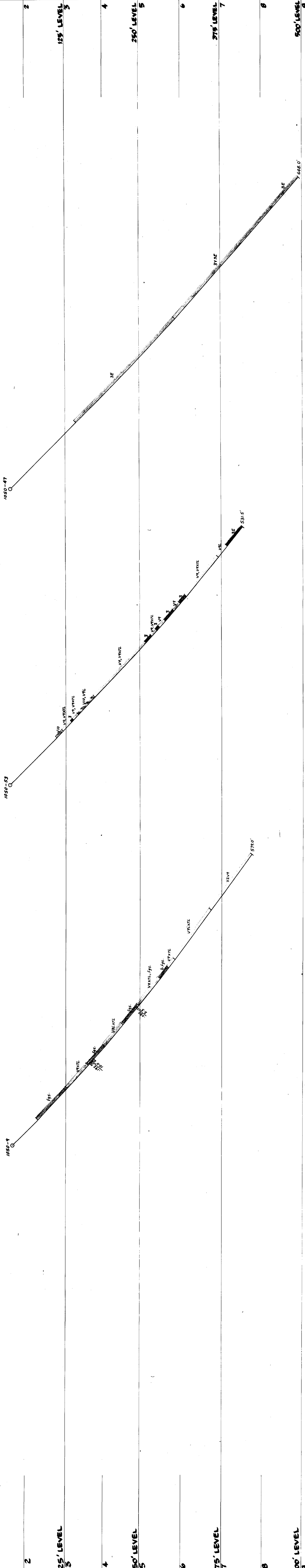
DATE	AUGUST 1980
DRAWN BY	G. TELMBLY
TRACED BY	M. SHART
PROJECT #	1050
TOWNSHIP	McELROY-CATHARINE
N.T.S.	DM 736-7649-E-91

63-3963  
SCALE 1"=50'  
0 50 100 FEET





5000 1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12



AMAX MINERALS EXPLORATION  
Catherine Twp, Ontario  
**MIRADO PROJECT**  
**LOOKING S55E**  
**SECTION 'L-6+00E'**  
1" = 50'

G.3.3963

5000

1

2

125' LEVEL

3

4

250' LEVEL

5

6

375' LEVEL

7

8

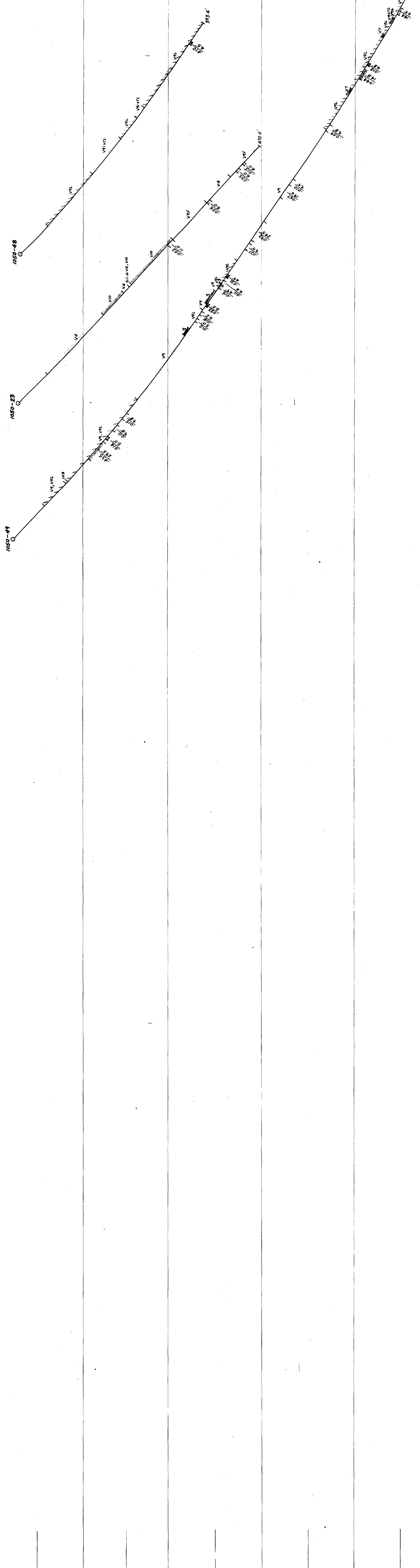
500' LEVEL

9

10

11

12



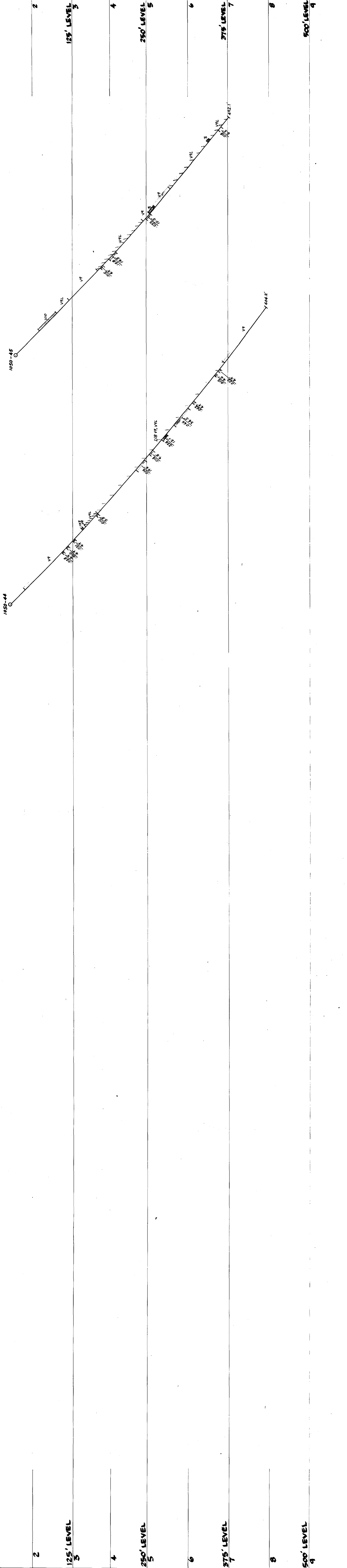
AMAX MINERALS EXPLORATION  
 Catherine Twp, Ontario  
**MIRADO PROJECT**  
**LOOKING S55E**  
**SECTION 'M' (4+17E)**  
 1" = 50'

63-5963

LONG SECTION A  
 LONG SECTION B  
 LONG SECTION C  
 AMAX BASE LINE  
 LONG SECTION D



5000 1  
2  
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5  
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7  
8  
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10  
11  
12



AMX MINERALS EXPLORATION  
Catherine Twp, Ontario  
MIRADO PROJECT  
LOOKING S55E  
SECTION 'L' (3+48E)  
1" = 50'

LONG SECTION A  
LONG SECTION B  
LONG SECTION C  
LONG SECTION D  
AMX BASE LINE



3000

5000  
1

2

125' LEVEL  
3

4

250' LEVEL  
5

6

375' LEVEL  
7

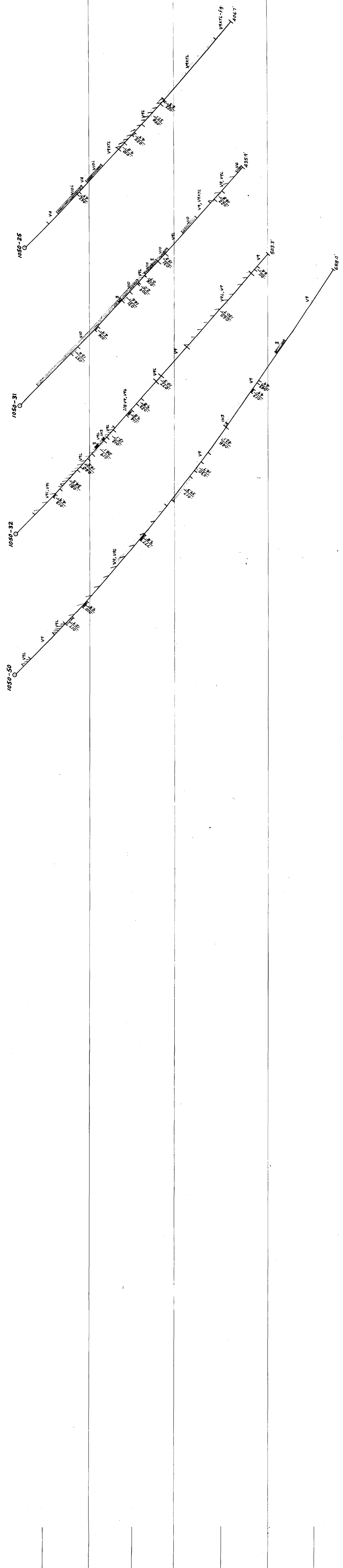
8

500' LEVEL  
9

10

11

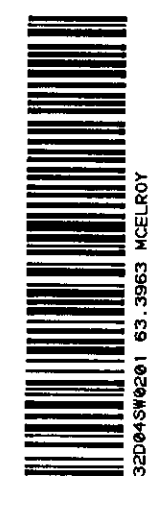
12



AMAX MINERALS EXPLORATION  
 Catherine Twp., Ontario  
**MIRADO PROJECT**  
**LOOKING S55E**  
**SECTION 'K' (2+86E)**  
 1" = 50'

LONG SECTION D  
 LONG SECTION C  
 AMAX BASE LINE  
 LONG SECTION B  
 LONG SECTION A

63.3%





5000

1

2

125' LEVEL

3

4

250' LEVEL

5

6

375' LEVEL

7

8

500' LEVEL

9

10

11

12

5000

1

2

125' LEVEL

3

4

250' LEVEL

5

6

375' LEVEL

7

8

500' LEVEL

9

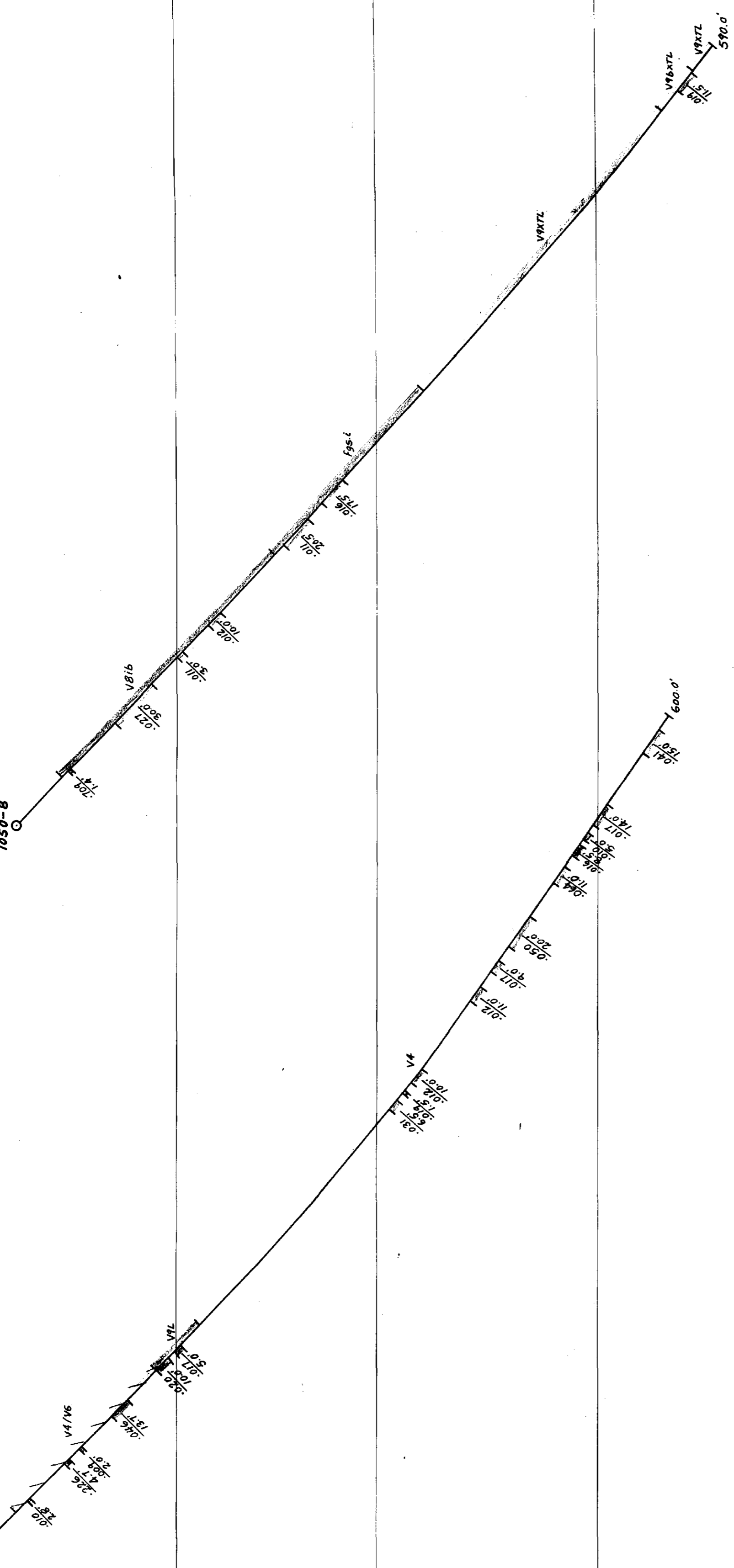
10

11

12

1050-21

1050-8



AMAX MINERALS EXPLORATION  
 Catharine Twp, Ontario  
**MIRADO PROJECT**  
**LOOKING S55E**  
**SECTION L-2+00E**  
 1" = 50'

LONG SECTION D  
 AMAX BASE LINE  
 LONG SECTION C  
 LONG SECTION B  
 LONG SECTION A



5000  
1

2

125' LEVEL  
3

4

250' LEVEL  
5

6

375' LEVEL  
7

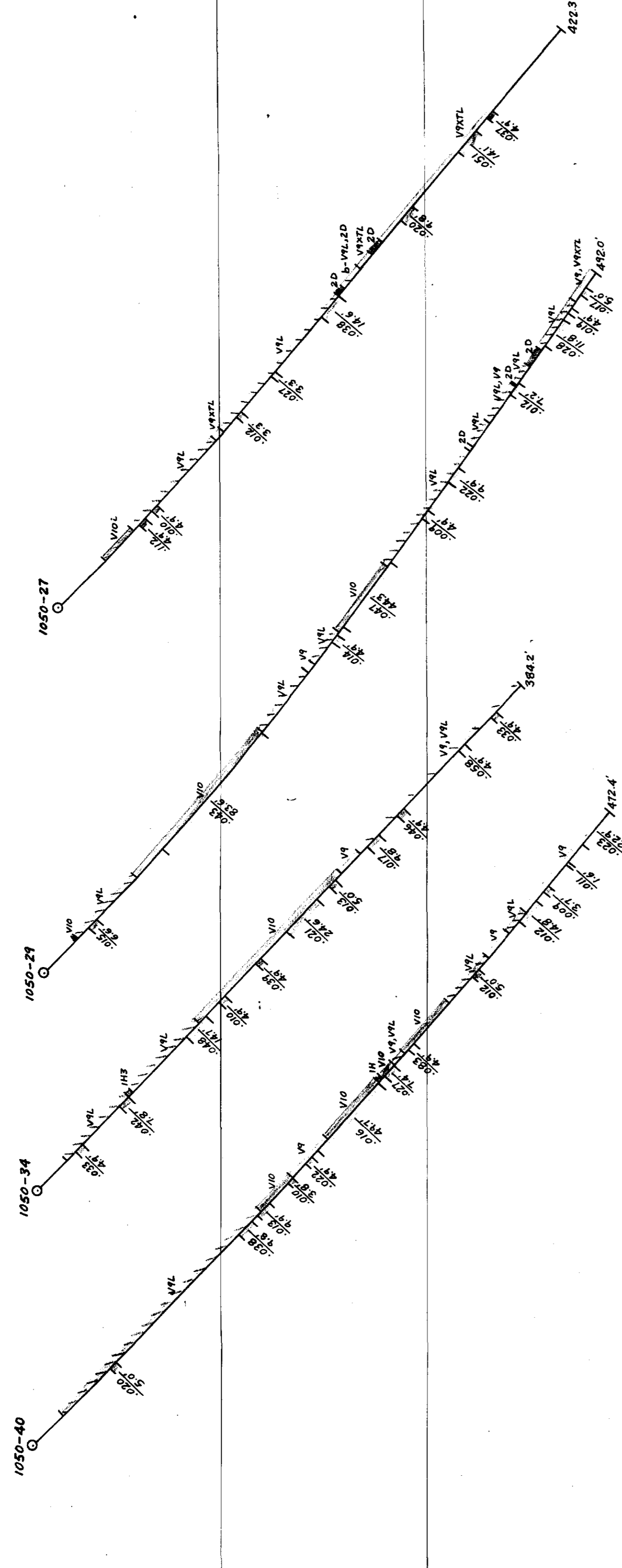
8

500' LEVEL  
9

10

11

12

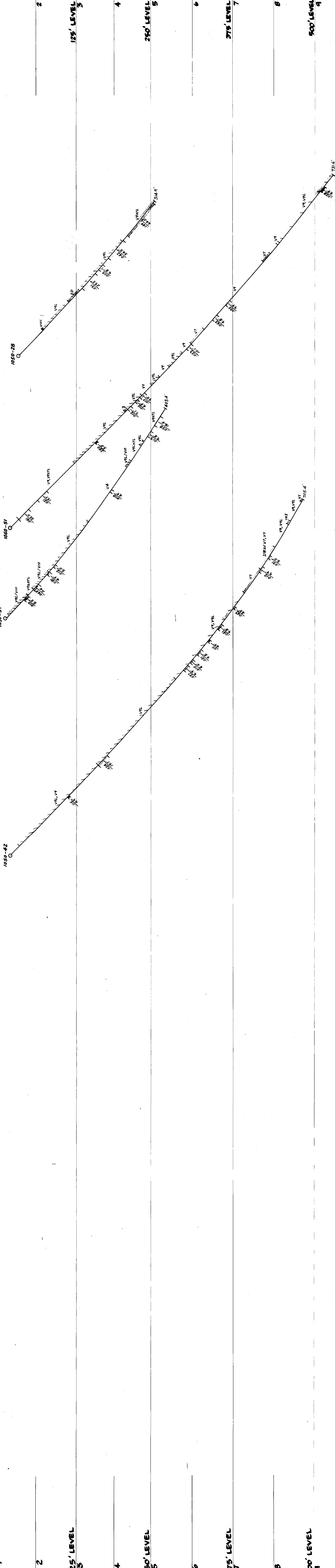


AMAX MINERAL EXPLORATION  
 Catherine Twp, Ontario  
**MIRADO PROJECT**  
**LOOKING S55E**  
**SECTION I (1+64 1/2 E)**  
 1" = 50'

63.3763



5000  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12

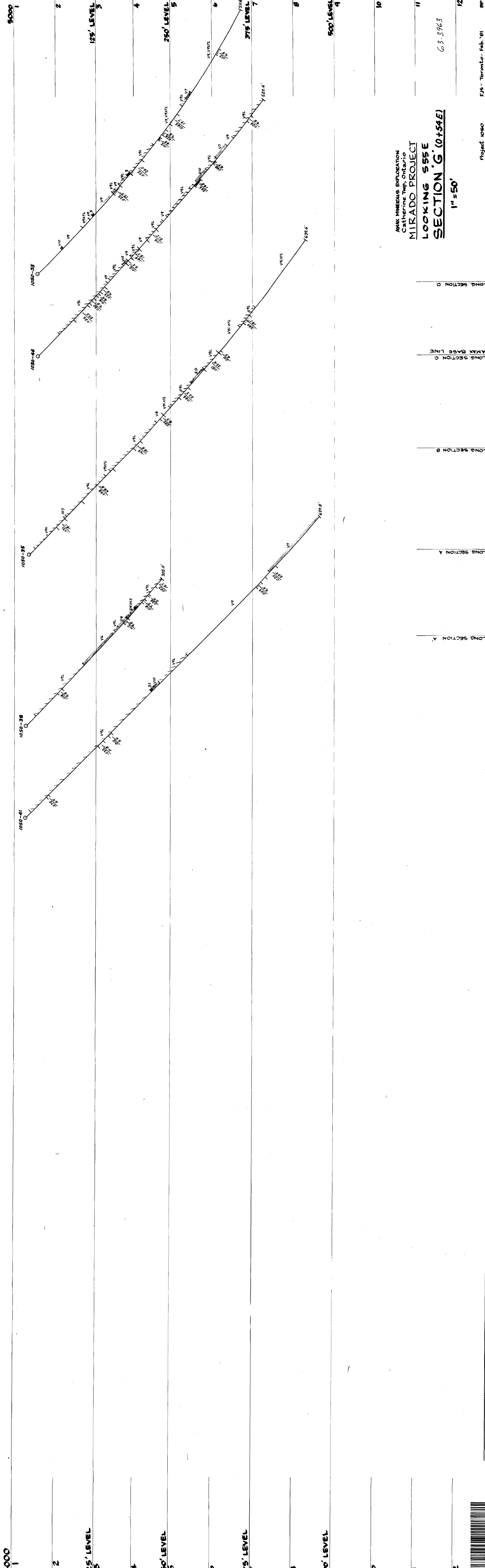


ANAX MINERALS EXPLORATION  
 Catherine Twp, Ontario  
**MIRADO PROJECT**  
**LOOKING S55E**  
**SECTION H (U+13E)**  
 1" = 50'

63.3963







AMX MINERALS EXPLORATION  
 Catherine Twp, Ontario  
**MIRADO PROJECT**  
**LOOKING S55E**  
**SECTION 'G' (0+54E)**  
 1" = 50'

LONG SECTION A  
 LONG SECTION B  
 LONG SECTION C  
 LONG SECTION D  
 AMX BASE LINE



5000

1

2

125' LEVEL

4

250' LEVEL

6

375' LEVEL

8

500' LEVEL

10

11

12

5000

1

2

125' LEVEL

4

250' LEVEL

6

375' LEVEL

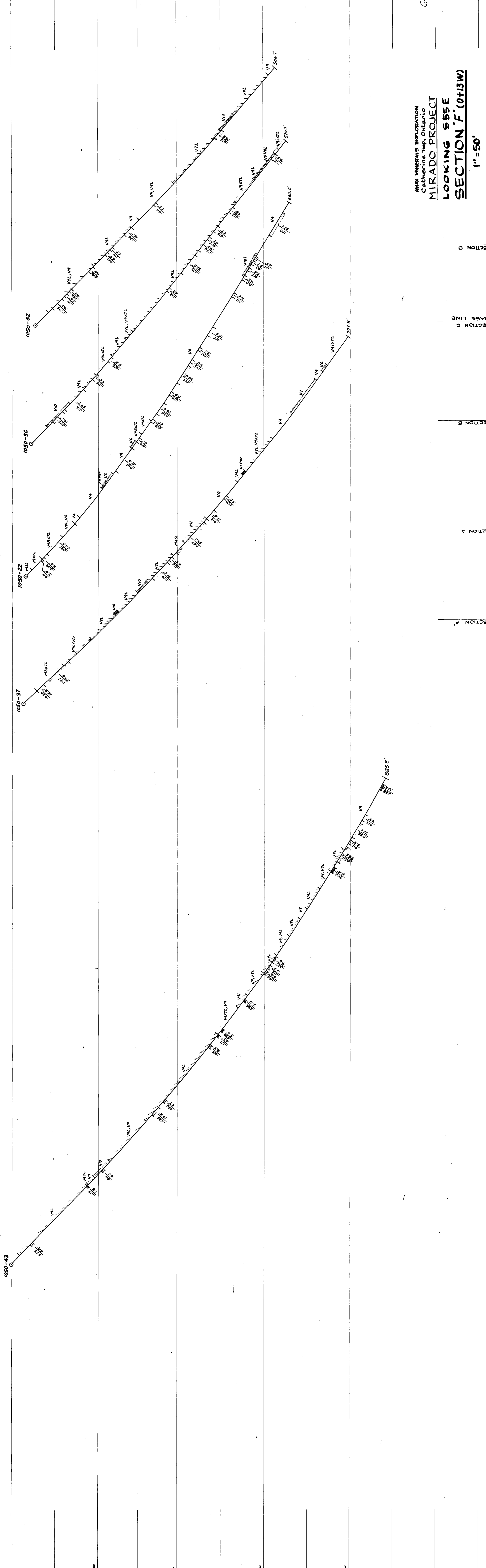
8

500' LEVEL

10

11

12



AMAX MINERALS EXPLORATION  
 Catherine TWP, Ontario  
**MIRADO PROJECT**  
**LOOKING 555E**  
**SECTION F (0+13W)**  
 1" = 50'

G.S. 5763

LONG SECTION A  
 LONG SECTION B  
 LONG SECTION C  
 AMAX BASE LINE  
 LONG SECTION D

5000

1

2

125' LEVEL

3

4

250' LEVEL

5

6

375' LEVEL

7

8

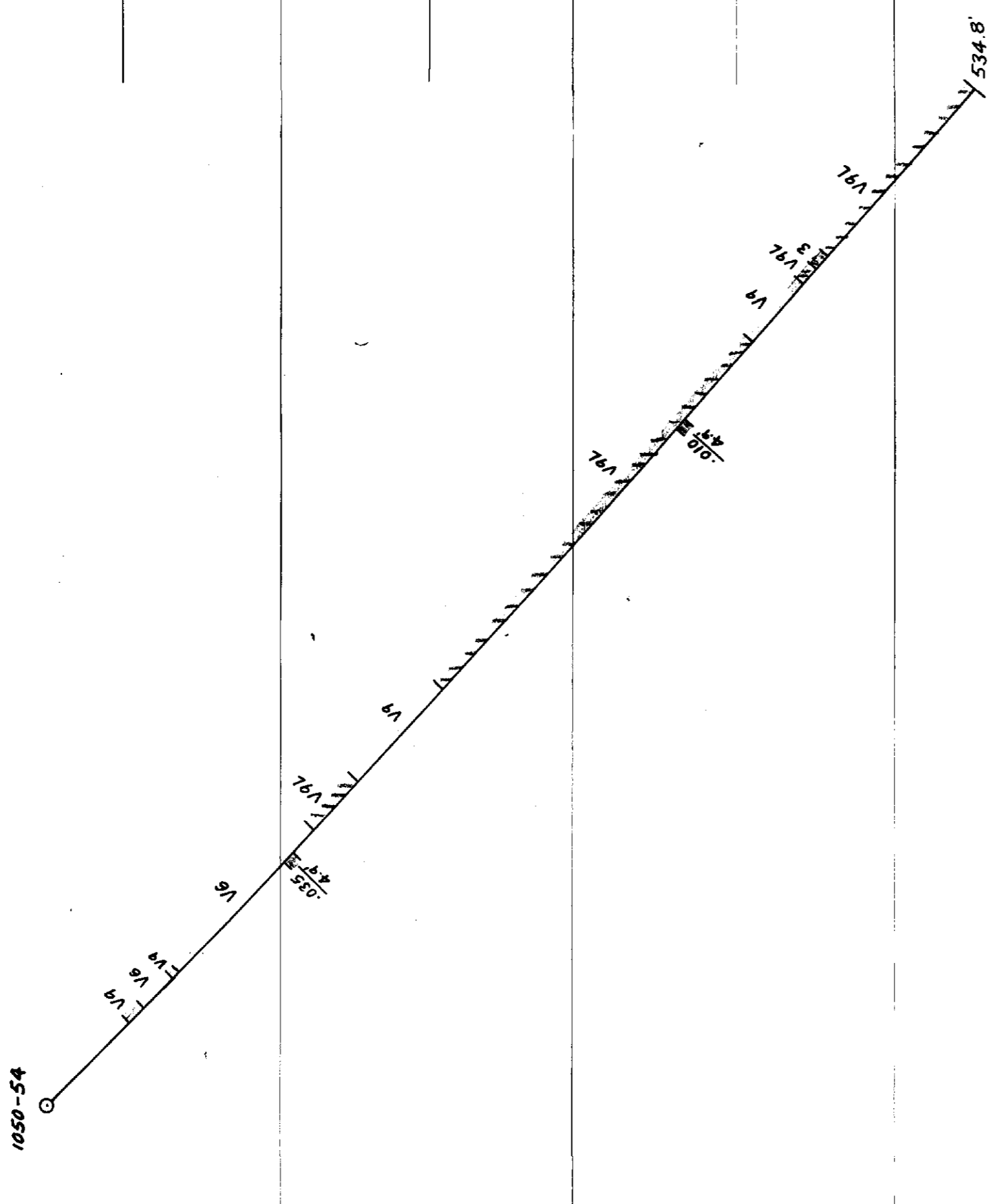
500' LEVEL

9

10

11

12



AMAX MINERALS EXPLORATION  
 Catherine Twp, Ontario  
**MIRADO PROJECT**  
**LOOKING S55E**  
**SECTION 'E' (112W)**  
 1" = 50'

63,3963

