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REPORT

ON

GEOLOGICAL MAPPING

MARY ANN - AVALARD MINES PROPERTY

GAUTHIER TOWNSHIP

LARDER LAKE MINING DIVISION

KIRKLAND LAKE AREA, ONTARIO

PANTHCO RESOURCES INC. 595 Argus Road OAKVILLE, Ontario

February 27, 1989

E. A. Gallo, B.Sc., F.G.A.C. Gallo Exploration Services Inc.

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#### INTRODUCTION

Panthco Resources Inc. holds 54 claims under option in the Kirkland Lake-Larder Lake gold district of northern Ontario. The property includes ground that was formerly held by Mary Ann Mines Ltd., and Avalard Mines Ltd. The property adjoins three former-producing gold mines - the Upper Beaver Mine to the north, the Upper Canada Mine to the west, and the McBean Open Pit Mine (formerly the Queenston Mine) to the southwest.

Previous exploration performed in the 1940's included diamond drilling. Assays of up to 0.75 oz. gold per ton, 6.95 oz. silver per ton, and 6.12% copper across variable widths were reported.

As part of a multi-phase exploration program of the property, Panthco Resources Inc. performed geological mapping in the fall of 1988. This report provides details regarding the mapping, and discusses the technical results obtained on 21 of the claims.

#### GEOLOGICAL MAPPING

PANTHCO RESOURCES INC.

#### MARY ANN - AVALARD MINES PROPERTY

#### GAUTHIER TOWNSHIP

#### LARDER LAKE MINING DIVISION

#### KIRKLAND LAKE AREA, ONTARIO

#### LOCATION

The 54 claims are situated in the east central part of Gauthier Township, and the west central part of adjoining McVittie Township. The property lies 12 miles (19 kilometers) due east of the town of Kirkland Lake, Ontario. Figure 1 shows the general location.

#### CLAIMS DATA

All 54 of the claims comprising the property are contiguous. Only 21 of the claims currently require assessment work credits, and they are numbered:

$\mathbf{L}$	859153		56,	inclusive	(4)
L	859612	-	15,	inclusive	(4)
L	884026		28,	inclusive	(3)
$\mathbf{L}$	884525		28,	inclusive	(4)
$\mathbf{L}$	894420				(1)
L	982246		49,	inclusive	(4)
L	982471				(1)

TOTAL

21 claims

These 21 claims are shown outlined in red on Figure 2.

#### ACCESS

The property is easily reached by car. The gravel road to the old Upper Beaver Mine provides convenient access to the western and northern portions of the property from Provincial Highway 66.

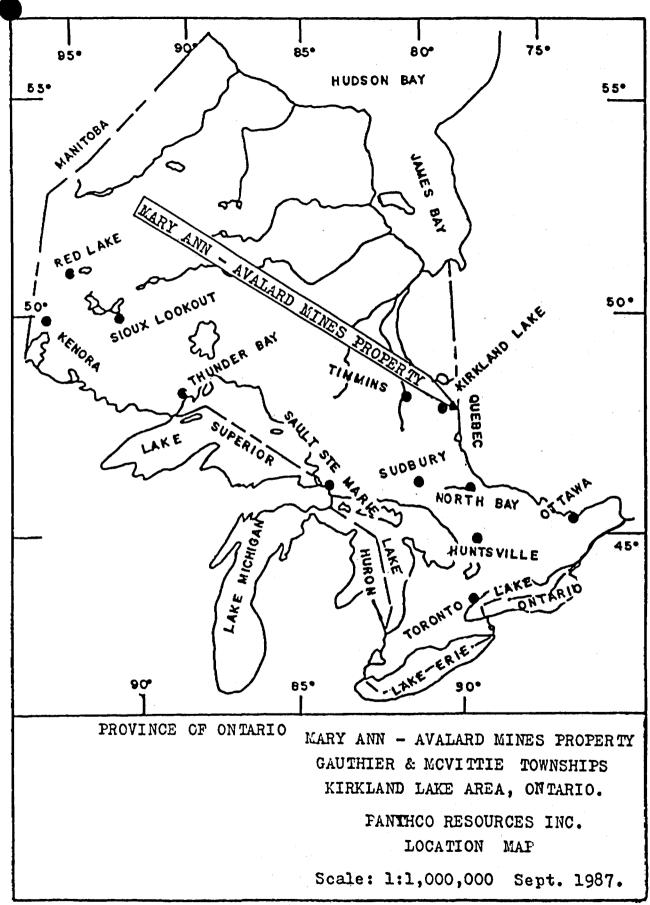
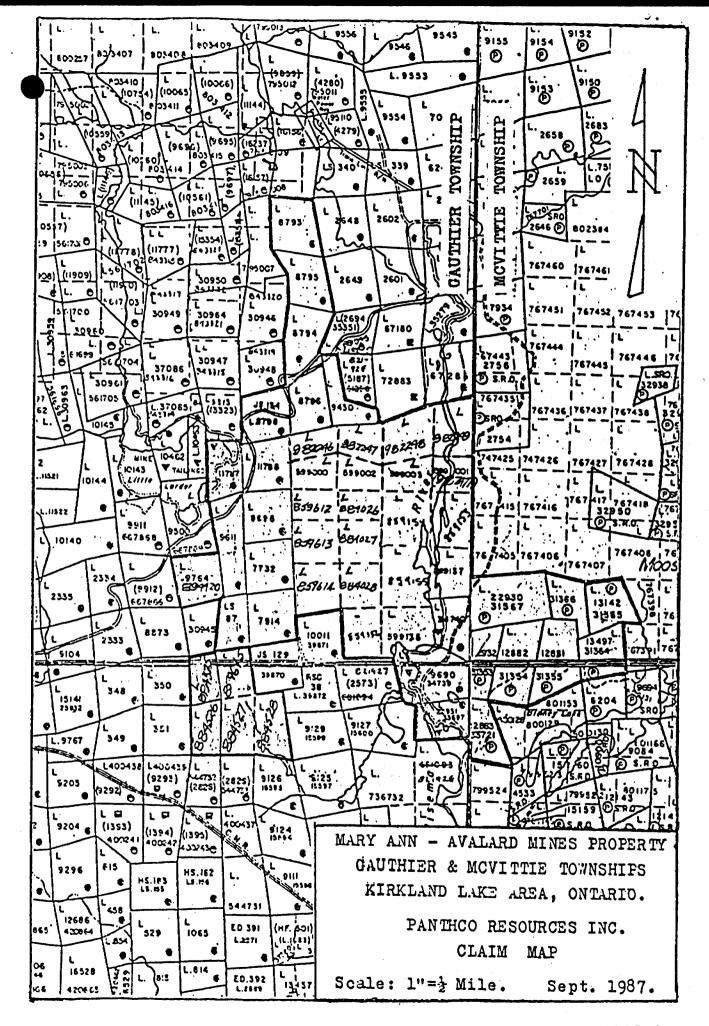


FIGURE 1



Another gravel road off Highway 66 follows the east bank of the Misema River, and provides access to the eastern portion of the property. The hydro electric transmission line through the southern part of the property serves as a walking trail to the southern portions of the property.

#### TOPOGRAPHY

4

The ground is relatively flat. Outcroppings of rock form low hills up to 60 feet (20 meters) high. Ridges of sand and gravel provide similar topographic features, while streams incised into varved clays have formed valleys as much as 60 feet (20 meters) deep.

#### LINECUTTING

A Base Line with Azimuth 90 was established, and Cross Lines were cut at 100 meter intervals perpendicular to the Base Line. Secondary base lines and tie lines were cut as needed at 25 meter intervals, and Stations were established by chaining marked by pickets implanted firmly into the ground at each site. A total of approximately 22.2 kilometers of lines were cut. On the 5 claims in the southwest corner of the property, lines were run by pace and compass, and brushed out as needed. Stations were established by pacing, at 25 meter intervals, and were marked by flagging tied to the brush at each site. An additional 6.1 kilometers of lines were run in this manner.

#### GENERAL GEOLOGY

The property is underlain mainly by a sequence of Archean age metavolcanic and metasedimentary rocks which are part of the Abitibi greenstone belt. The rocks trend generally east-west, and dip vertically. Dykes and small bodies of quartz porphyry have intruded the metavolcanics and metasediments.

#### DETAILED GEOLOGY

Nine lithologic units were recognized during the detailed geological mapping of the property. All are Precambrian in age, and are shown summarized in Table I.

Unit 1 is an intermediate metavolcanic that occurs within felsic metavolcanics at their contact with a large felsic intrusive. It is medium grey in colour on the weathered surface, and slightly

darker on fresh surfaces. Minor carbonatization is ubiquitous. Shearing is common. Occasional rusty patches are present. The unit trends generally east-west, and dips vertically.

Units 2 and 3 are felsic metavolcanics. The former is unsubdivided, and the latter is a pyroclastic. They are pale grey in colour on the weathered surface, and medium grey on the fresh surface. Carbonatization to varying degrees is ubiquitous. These units trend in a general east-west direction, and dip vertically or steeply to the south. They occur in the north half of the property, north of the metasedimentary units. The undifferentiated felsic metavolcanics are generally massive, with narrow tuffaceous interbeds. The pyroclastic felsic metavolcanics are generally agglomerates, with fragments ranging between 5-10 cm (2-4") in size. Narrow quartz threads and stringers frequently cut randomly through these units, generally wherever the carbonatization is more intense.

Units 4 and 5 are felsic intrusives. Unit 4 is a quartz feldspar prophyry that occurs as 3 small dyke-like bodies in the east central portion of the property. All trend generally NE-SW. They are medium grey in colour on the weathered surface, and slightly darker on the fresh surface. Both the quartz and the feldspar phenocrysts are small, averaging less than 1 mm. in size. Unit 5 is a quartz porphyry. It occurs as a large intrusive body in the north central part of the property. It too is medium grey in colour on the weathered surface, and slightly darker on the fresh surface. The quartz phenocrysts vary in size from less than 1 mm to about 3 mm.

Units 6 and 7 are metasediments. The former is conglomerate, and the latter is greywacke. The conglomerate occurs interbedded with the greywacke as a narrow bed that trends E-W through the centre of the property. Dips are generally vertical. The pebbles and boulders in the conglomerate are loosely packed and matrix-supported. The boulders range up to 20 cm (8") in size along their long axis, and are generally stretched so that their long axis parallels the direction of bedding. The composition of the pebbles and boulders varies from rhyolitic to quartz porphyritic, and quartz feldspar porphyritic. Pebbles of white secondary quartz and of black jasper are occasionally present. The greywacke occurs as a large unit in the west central and SW portions of the property in addition to the narrow E-W bed in the centre of the property. The greywacke is usually grey in colour, both on the weathered and fresh surfaces. Locally the greywacke is arkosic. The greywacke in the SW part of the preperty trends N-S and dips vertically or steeply to the E, whereas the greywacke in the west central part of the property trends E-W and dips either vertically or steeply to the south. Uncertain top determinations suggest that tops are to the south.

Alkalic metavolcanics form Units 8 and 9. Unit 8 is a trachytic pyroclastic, while Unit 9 is an undifferentiated trachyte. These units are very similar to the felsic metavolcanics designated as

## TABLE OF LITHOLOGICAL UNITS

Early Precambrian

Alkalic Metavolcanics

Unsubdivided Trachyte

Trachytic Pyroclastics

Metasediments

Greywacke

Conglomerate

Felsic Intrusives

Quartz Porphyry

Quartz Feldspar Porphyry

INTRUSIVE CONTACT -

Felsic Metavolcanics

Unsubdivided

Pyroclastics

Intermediate Metavolcanics

Unsubdivided

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Units 2 and 3, except that they are pinkish-grey in colour. They occur in the south part of the property, south of the thin E-W bed of metasediments, and east of the large bed of greywacke. The trachyte pyroclastics contain fragments up to 15 cm (6") in The undifferentiated trachytes are generally massive. size. In the extreme south part of the property, these units trend generally N-S, and dip 60°-70° to the east. Further north, these units dip vertically. Still further north, where these units occur south of the narrow E-W band of metasediments, these units trend generally E-W, and dip vertically. These units are often sheared and blocky and locally are fissile. Carbonatization to varying degrees is generally present. Locally, the carbonatization is extremely intense, and only the stratigraphic position of the altered outcrops allows their classification. Where the rocks are intensely carbonatized they weather to a rusty reddish colour, and the rind of weathering may be as much as 2 cm (3/4") thick. Quartz threads, stringers, and veins are generally present, especially where the carbonitization is intense. Sulphides are sometimes present in the quartz veins and stringers.

For such a thick sequence, the trachyte appears to end rather abruptly at its western terminus, where it gives way to greywacke. The actual contact of the 2 rock types was not observed in outcrop. It could be a fault contact, or merely a natural depositional sequence in a region of extreme topographic paleosurfaces.

#### CONCLUSIONS

The detailed geological mapping located areas of shearing, intense carbonatization, quartz veining, and porphyry intrusions. All of these features can be associated with gold mineralization. As well, the detailed geological mapping established the presence of the same lithologies and the same lithological sequences that are known to host economic quantities of gold mineralization in the general area.

#### RECOMMENDATIONS

Additional exploration work is warranted on the ground. The areas of greatest shearing, most intense carbonatization, and greatest concentration of quartz veining should be exposed by mechanical stripping, and sampled.

SOCIA;

February 27, 1989 Toronto, Ontario E. A. Gallo FLEOSC, F.G.A.C. Gallo Exploration Services Inc.

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# REFERENCES

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BARRICK POWER LINE (Application pending under Public Lands Act)

.

# SAND and GRAVEL

)	M T C.	PIT No. 1666	FILE 101421
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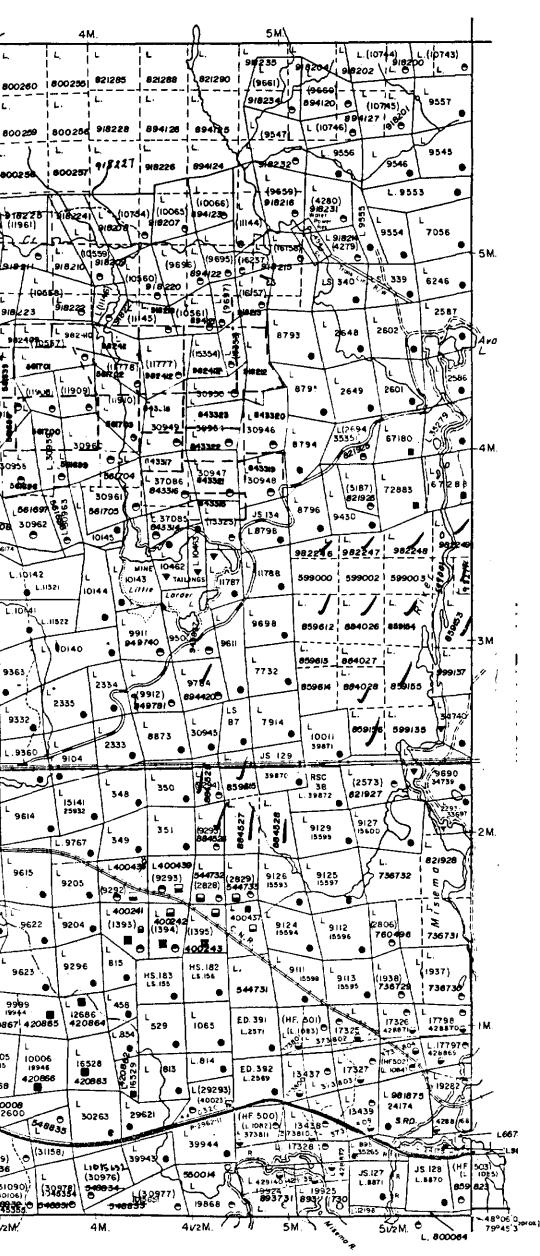
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McELROY TP.



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# LEGEND

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HIGHWAY AND ROUTE No	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES, ETC	
LOTS, MINING CLAIMS, PARCELS, E	τ.c. ————
UNSURVEYED LINES:	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	<b>++</b>
UTILITY LINES	·
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	and and the second
RESERVATIONS	Encontraction and a sub-
ORIGINAL SHORELINE	••••••••••••••••••••••••••••••••••••••
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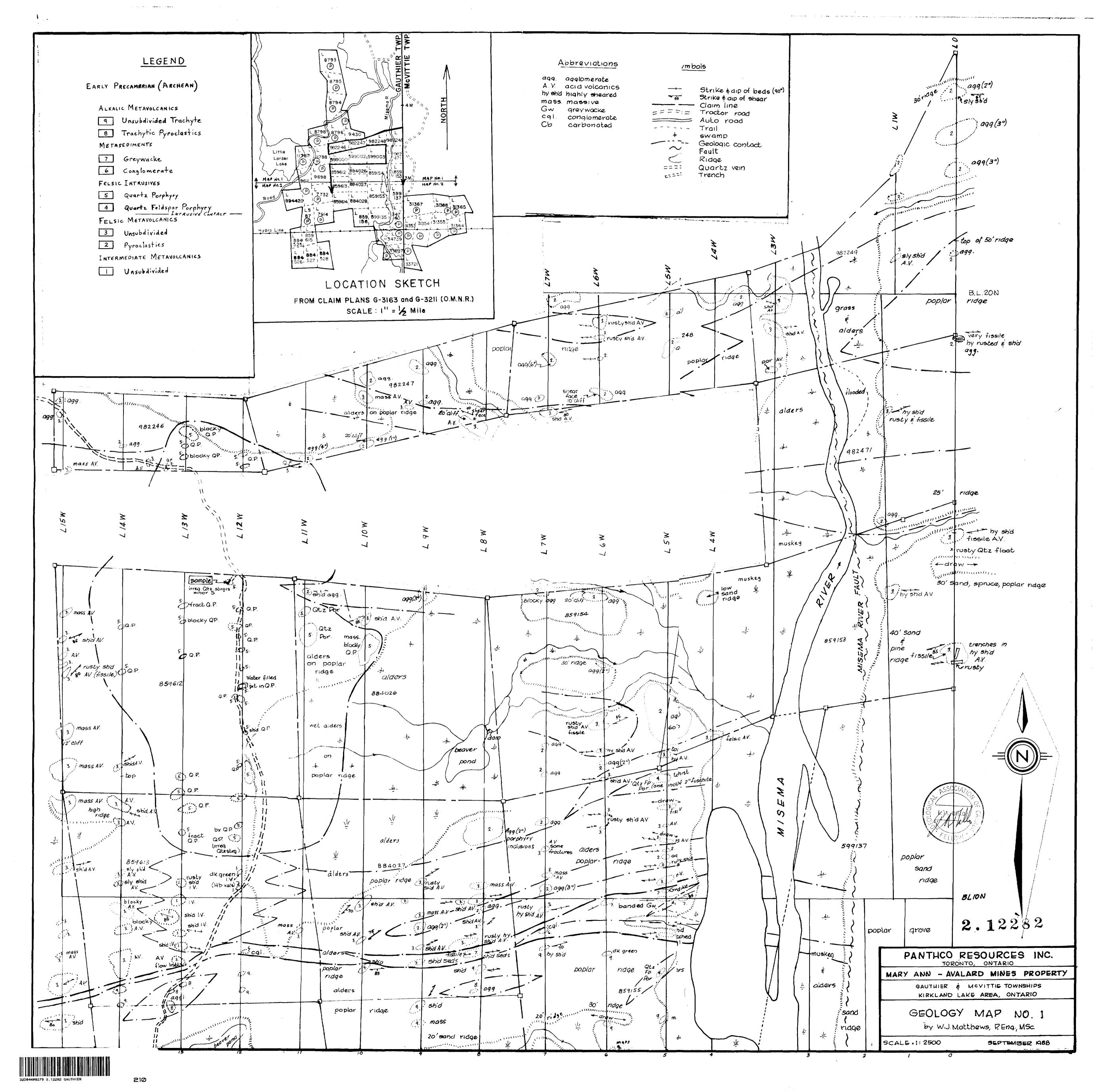
# **DISPOSITION OF CROWN LANDS**

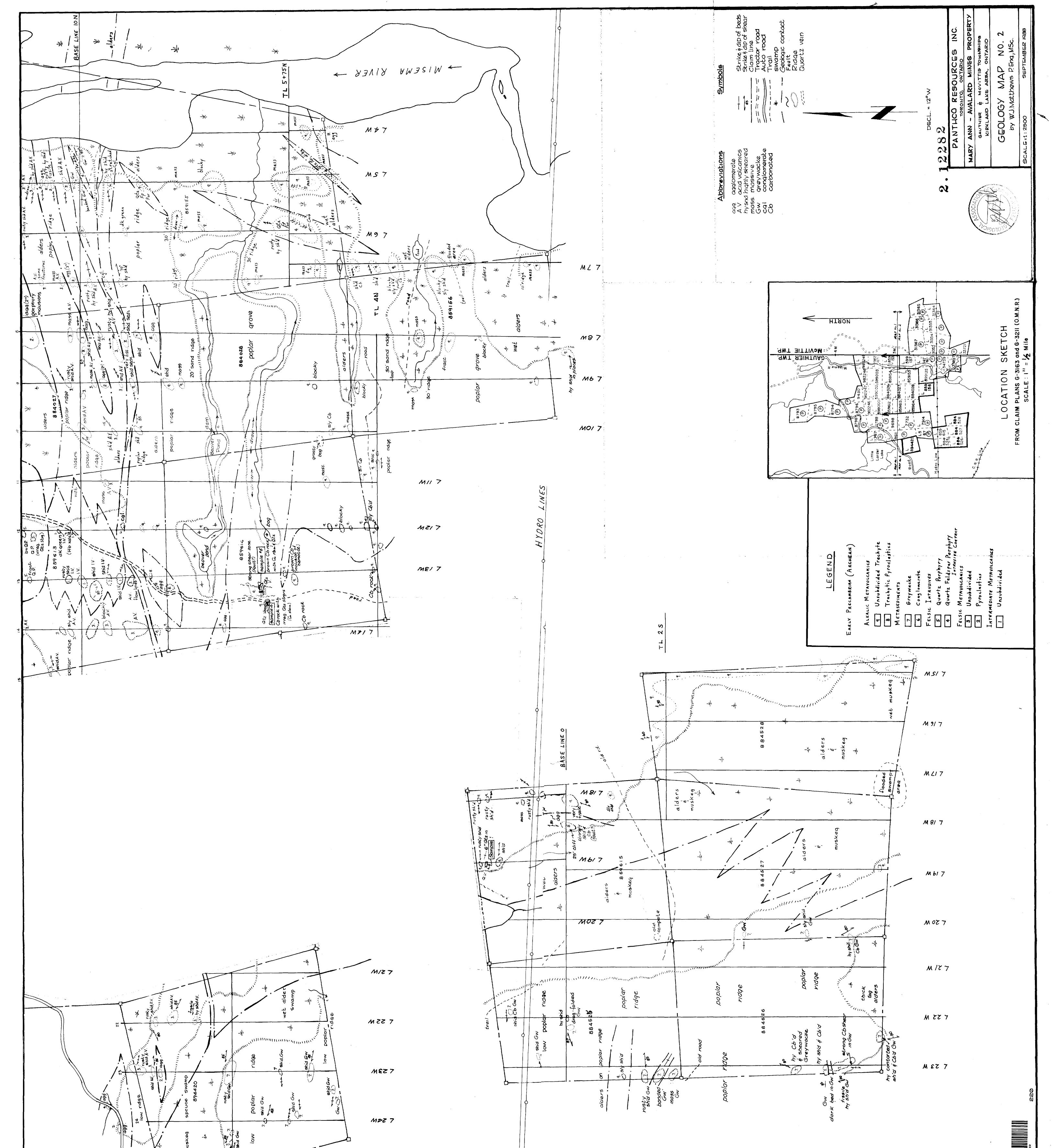
SYMBOL

## TYPE OF DOCUMENT

PATENT, SURFACE & MINING RIGHTS
" SURFACE RIGHTS ONLY
", MINING RIGHTS ONLY 🔍
LEASE, SURFACE & MINING RIGHTS
", SURFACE RIGHTS ONLY
", MINING RIGHTS ONLY
LICENCE OF OCCUPATION
ORDER IN COUNCIL OC
RESERVATION
CANCELLED &
SAND & GRAVEL
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6. 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC 63, SUBSEC 1.

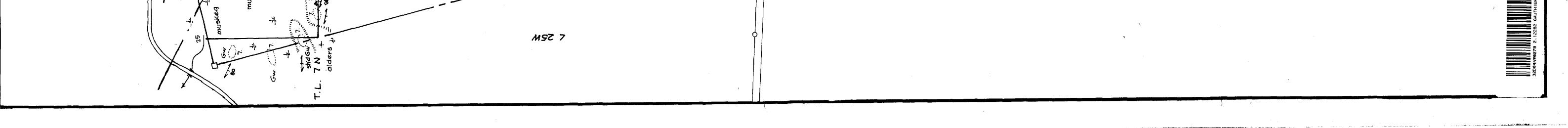
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	MAR 8	0 1989						
TOWNSHIP	LARDE MINING RECO	R LAKE RDE <b>R'S OFFICE</b>						
GAUTHER								
M.N.R. ADMINISTRATIVE DISTRICT								
KIRKLAND LAKE								
MINING DIVISION								
LARDER LAKE								
LAND TITLES / REGISTRY DIVISION TIMISKAMING								
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	Natural Resources	Managemei Branch	n <b>t</b>					
Ontario		· · · <del>·</del> · · · <del>· · ·</del>						
Date JANUAF	RY, 1985	Number						
FEBRUARY 8	.1988	6-3	211					





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