

REPORT ON GEOLOGICAL AND GEOPHYSICAL SURVEYS

BOUNDARY GROUP OF CLAIMS

ARGYLE AND HINCKS TOWNSHIPS

LARDER LAKE MINING DIVISION

PROVINCE OF ONTARIO.

by

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MINING LANDS SECTION

Manville Canada Inc. Exploration Department

October 20th, 1988 Matheson, Ontario.





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# List of Maps Accompanying this Report:

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# REPORT ON GEOLOGICAL AND GEOPHYSICAL SURVEYS BOUNDARY GROUP OF CLAIMS ARGYLE AND HINCKS TOWNSHIPS LARDER LAKE MINING DIVISION PROVINCE OF ONTARIO.

#### Introduction:

The following report describes the geological and geophysical surveys which were carried out during the 1988 field season on thirty-three mining claims recorded in the name of Manville Canada Inc. and located in Argyle and Hincks Townships, Larder Lake Mining Division.

Cutting and chaining of the grid lines were carried out by Company personnel. This work was started during the late fall of 1987 and completed in June of 1988.

Geological mapping was conducted by R. Kaltwasser, Senior Fieldman, assisted by J. Andrews, summer student. The writer examined key outcrops, mineralized showings, shear zones and typical rock specimens.

R. Kaltwasser assisted the writer in compiling the data for the geological and topographic sections of this report.

Magnetometer surveying was conducted by R. Teigen, Junior Fieldman, using a Fluxgate Model MF-1 unit.

Electromagnetic surveying was carried out by R. Teigen.

J. Delaurier and J. Andrews alternated as transmitter operators. A McPhar vertical loop unit was used for this work.

Survey calculations and draughting of the final maps were completed by R. Kaltwasser.

Interpretation of the data and compilation of the report were the responsibility of the writer, Exploration Manager with Manville Canada Inc. based at Matheson, Ontario.

Note that all personnel involved in the work on the Boundary Group are/were Company employees.

#### Property:

The thirty-three claims surveyed are contiguous, are situated in Argyle and Hincks Townships and have been divided into blocks based upon the recording dates. These are described as follows; -

- Block No. 1 12 claims numbered L-1025458 to 69 inclusive and recorded on September 1st, 1987.
- Block No. 2 5 claims numbered L-1025470-71-72 and 983102-03, recorded on September 21st, 1987.
- Block No. 3 11 claims numbered L-996900 to 05 inclusive and 1014593 to 97 inclusive, recorded on October 6th, 1987.

Block No. 4 - 5 claims numbered L-1047533 to 37 inclusive and recorded on July 21st, 1988.

Acreage totals approximately 1,320.

All claims were staked by Company personnel and have been transferred to Manville Canada Inc.

#### Location and Accessibility:

The claims are located in the northwestern part of Argyle and northeastern section of Hincks Townships, approximately 18 miles west of Matachewan, and straddle the common boundary over a distance of two and a guarter miles.

Access is provided by the gravelled continuation of Highway No. 566 which traverses the central part of the property in a northwesterly direction. An old logging road, probably in use during the late 1960's, extends to the south through the Boundary claims in Hincks Township. This road was cleared out during the fall of 1987 and is now suitable for travel by four-wheeled drive vehicle.

#### Topography:

With the exception of the western section the property is characterized by broad, flat areas with low-lying southeasterly trending ridges of boulder till, gravel and sand forming low eskers and boulder trains. Narrow swamps are found between the ridges and are often strewn with boulders. The northwestern part of the claims has more rugged relief with hills rising 100 to 150 feet above the surrounding terrain. Hills are drift-covered with gravel and boulders. Bedrock is exposed along cliff edges. A low, broad, flat drift-covered area of sand and boulder till with few outcroppings has been mapped in the central and southwestern parts of the property.

Swamps are extremely wet due to the damming of small streams by beaver. This made traversing extremely difficult, especially in the central and western parts to the northeast of Ronald Lake. A large, boggy, open muskeg covers the northeastern part of Sheet 1. Drainage, via streams, ponds and small lakes is into McCollum Creek which flows in a southeasterly direction across the claims and empties into the Whitefish River.

Spruce, balsam, jackpine, poplar and birch timber the low hills and ridges. Many sections of the property are covered by balsam which have been killed by the spruce budworm. This has left a tangled mess of windfalls with a thick underbrush of alders and hazel. Swampy areas are covered by spruce, cedar and alders. There is little or no merchant-

able timber in the area.

Numerous outcrops have been mapped on Sheets 1 and 2 and along the eastern part of Sheets 3 and 4. The central and western parts of Sheets 3 and 4 are generally overburden-covered.

#### Previous Work:

In 1919 the Geological Survey of Canada published Memoir 115 entitled "Geology of Matachewan District, Northern Ontario" compiled by H.C. Cooke. Gold occurrences discovered in the area to the east of Hincks-Argyle Townships are described in this report.

A report on the "Bannockburn Gold Area" which includes the Boundary claims, was compiled by H.C. Rickaby and published in the Forty-First Annual Report of the Ontario Department of Mines in 1932. Map No. 41a, on a scale of one inch equals 3/4's of a mile, accompanies this report. Showings in Hincks Township are described on pages 19 and 20 of this report.

Aeromagnetic Maps on scales of one inch equals 1/2 and one mile have been published jointly by the O.D.M. - G.S.C. These plans have been used as an aid in interpreting the ground magnetometer survey results.

Map No. 2205 - The Timmins-Kirkland Lake Sheet of the Geological Compilation Series, on a scale of one inch equals four miles, also covers the area.

In 1974 the Ontario Department of Mines issued Preliminary Maps
Nos. 1017 and 1018 - Airborne Electromagnetic and Total Intensity Magnetic
Survey - for Hincks and Argyle Townships. These plans cover the
Boundary claims.

Although the claims of the Boundary Group had been staked and at least partially explored as far back as the early 1930's no work is on record at the Resident Geologist's Office in Kirkland Lake.

#### Line Cutting and Chaining:

Base line No. 1 was started from the No. 4 post of claim L-1025458 and was cut and chained on a bearing of S44°E from line 8W to 120 feet southeast of line 72E - a length of 8,120 feet. Note that the northwest section - 0 to 8W - is on a neighbouring claim.

Base line No. 2 was started from a point 1,800 feet southwest of base line No. 1 on line 72E and was cut and chained, parallel to base line No. 1, to line 96E - a length of 2,400 feet. The last 500 feet is on an adjoining claim.

Base line No. 3 was started from a point 2,380 feet northeast

of base line No. 1 on line 00 and was cut and chained on a bearing of N44°W for a length of 3,400 feet. Note that this base line was offset 200 feet to the northeast at 2,220 feet northwest to avoid a flooded area.

Right-angled offset lines, spaced at 400 foot intervals, were cut to the northeast and southwest of the three base lines to the claim boundaries. Marked pickets were established every 100 feet along these offset lines by chainage.

Total miles of base (2.64) and picket lines (29.53) cut and chained - 32.17.

#### General Geology:

The Geology of Argyle and Hincks Townships is described in the Forty-First Annual Report of the Ontario Department of Mines compiled by H.C. Rickaby in 1932. Several reports on the Matachewan Area have been issued since that date, however, the majority cover the Townships to the east of Argyle.

The following "Table of Formations" has been taken from page 5 of Geological Report 51 on the Matachewan Area compiled by H.L. Lovell and published by the O.D.M. in 1967.

#### Table of Formations

Cenozoic:

Recent : Swamp, and stream deposits

Pleistocene: Sand, gravel, clay

Unconformity

#### PRECAMBRIAN:

Proterozoic:

Mafic Intrusive Rocks (Nipissing):
Diabase

Intrusive Contact

Huronian:

Cobalt Group (Gowganda Formation):

Argillaceous and arkosic quartzite, conglomerate,
argillite, arkose

Unconformity

Archean:

Mafic Intrusive Rocks (Matachewan):
Diabase, undifferentiated

Intrusive Contact

Silicic Intrusive Rocks (Algoman):

Granite; granodiorite and granitic gneiss; syenite porphyry and coarse-grained syenite; syenite; mafic syenite, lamprophyre, quartz diorite and diorite

#### Intrusive Contact

Ultramafic and Mafic Intrusive Rocks (Haileyburian):
Serpentinite, diorite

Intrusive Contact

Sedimentary Rocks (Timiskaming):

Conglomerate; greywacke and interbedded argillite and quartzite; arkose

#### Unconformity

Volcanic Rocks (Keewatin):

Basalt and andesite; bleached, silicified, sericitized volcanic agglomerate; rhyolite and dacite; carbonatized and amygdaloidal volcanic rocks; amphibolite.

The property is situated within the Abitibi Subprovince which is Archean in age. The formations are comprised mainly of Mg-rich tholeiitic basalts (there are minor Fe-rich flows) similar to those found in the Matheson - Kirkland Lake area (Kinojevis Group).

#### Geological Survey:

Detailed geological mapping, prospecting and sampling of mineralized zones were carried out during the summer of 1988. The results of this work are shown on the accompanying Geologic and Topographic Plans (Sheets 1 to 4) on a scale of 1" = 200'.

Bedrock is exposed in numerous outcrops in the north, central and eastern parts of the map area. Open muskeg and swamps cover the northeast, south-central and southwestern sections. Rock types are predominantly mafic metavolcanics with interbedded intermediate and felsic flows. Strikes are generally to the northwest at 20° to 40° with dips from 60° to 80° to the northeast.

The western contact of the large granitic body, centred in the southwestern part of Argyle Township, has been mapped along the eastern side of the Boundary claims. Dikes of syenite, feldspar, quartz-feldspar and syenite porphyry intrude the volcanics. A northerly trending diabase dike occurs along the western boundary of the claims and is shown on Sheets 1 and 2. Glacial striations were noted on a few of the outcrops and have southerly to southeasterly strikes.

Rock types, structures and economic geology are discussed in the following paragraphs.

Interbedded basalts, andesites and rhyolites underlie the greater part of the map area. Spherulitic, fragmental, agglomeratic and banded cherty flows occur in the south-central and eastern parts of the map area. The basalts are massive, brittle, dense, find grained with occasional minor pyrite mineralization. Colour on a fresh surface is dark grey-green to black. Surface weathering is dark grey to greenish-grey. Cherty flow sections were noted on several outcrops, however, these are narrow and cannot be traced for any distance. No magnetite was noted in the basalts and the results of the magnetometer survey confirm this observation. These massive basalts form the higher hills - in a step pattern with steep cliff edges - in the northern and western parts of the claims. Thickness appears to be in the order of 2,000 to 3,000 feet.

Andesitic volcanics form a horizon extending southeastwards from the northwest corner of Sheet 1 through Sheets 2, 3 and 4. These generally narrow flows are commonly weakly sheared with chlorite and carbonate alteration. The andesites weather dark grey to dark green and are dark green on a fresh surface. Some outcrops show a pronounced brownish weathering due to alteration. Oxidized coatings were noted along fractures. Grain size varies from fine to coarse - a dioritic texture was noted on several outcrops in the north-central part of Sheet 1.

A massive, medium grained spherulitic flow, having a thickness of several hundreds of feet, occurs in the southeastern part of Sheet 2. Weathering on a pock-marked surface is a light grey. Colour on a fresh surface is light grey-green with spheroids of carbonate and feldspar ranging up to one half inch in size. A narrow spherulitic flow was mapped in the southeast corner of Sheet 3.

Fragmental laval occurs in the northeastern section of Sheet 2 and is in contact with feldspar-rich porphyritic granite to the east. Fragments are sharp-edged and range in size from a half to one inch. Weathering is a mottled light grey to buff. In the south-central part of Sheet 2, to the southwest of McCollum Creek, a broad horizon of fragmental lava has been mapped. A few scattered outcrops occur on Sheet 3 along the creek in the southeastern section.

A thin cherty flow was mapped in the south-central part of

Sheet 2 in contact with rhyolite on the east and basalt to the west. Strike is northerly with an 80° dip to the east. Another occurrence outcrops in the southeastern corner of Sheet 3, striking steeply northwesterly and dipping 80° to the southwest. These cherty tuffs weather light to dark grey and are weakly sheared and mineralized with finely disseminated pyrite.

Several scattered, small outcrops of agglomerate occur to the northeast of base line 3 in the south-central part of Sheet 1. Large exposures have also been mapped to the north and west of the small lake in the southeastern part of Sheet 2 where the thickness of the horizon exceeds 1,000 feet. These agglomerates are composed of ovoid-shaped pebbles and boulders of feldspar-rich andesite. The boulder-like appearance is pronounced on the grey to buff-weathered surface. These rocks are massive, hard and brittle with little or no indication of shearing.

Felsic volcanics strike in a southeasterly direction across the Boundary claims extending from line 20W in the northwestern part of Sheet 1 to line 44E in the southeastern section of Sheet 2. The thickness of this rhyolite ranges from a few feet to a maximum of 500 to 600. The rhyolite outcrops along and generally to the northeast of the McCollum Creek fault on Sheets 1 and 2. Narrow rhyolitic horizons are exposed in scattered outcrops along the major northerly striking fault in the southeast part of Sheet 3.

Weathering is white to light grey with colours on a fresh surface varying from light to dark green with shades ranging from grey to pink. The rhyolite is moderately sheared throughout and locally is weakly carbonatized with quartz-filled fractures. These siliceous zones are mineralized with abundant fine pyrite. Shearing strikes 35° to 40° north-west with near vertical dips to the northeast. Old trenching was discovered along the felsic volcanics between lines 8W and 12W. The rhyolite in this area is highly altered by carbonatization and sericitization? to a yellowish-green mottled rock. Sharp, angular felsite float was noted along a low ridge between lines 44E and 52E to the northeast of the tractor road on Sheet 3. Finely disseminated pyrite was observed in this material.

Narrow dikes of syenite and syenite porphyry intrude the basalts and andesites in the map area. In general, these intrusives are closely conformable with the flows. Weathering is pink to brown. The fresh surface may be reddish with pink feldspars or grey with coarse reddish feldspars.

Syenite porphyry is exposed in several, sizeable outcrops in the southast corner of Sheet 2 and northeastern section of Sheet 3. This intrusive appears to be a phase of the large granitic body centred in the southwestern part of Argyle Township.

Northerly striking dikes of feldspar and quartz-feldspar porphyry have been mapped in the western part of Sheets 1 and 2, in the south-eastern section of Sheet 2 and in the south-central section of Sheet 1. A small plug of feldspar porphyry with possibly an outer rim of quartz-feldspar prophyry outcrops along the boundary of Sheets 1 and 2. Feldspar porphyry also outcrops along the east side of claim L-1014596 on Sheet 2. Again, this is probably the westerly contact of the Hincks Township granitic mass.

Granodiorite? outcrops extensively in the eastern portion of Sheet 3. This rock weathers to a light grey, is coarse grained and composed of plagioclase and orthoclase feldspars, hornblende and minor quartz. Disseminated pyrite mineralization occurs locally. Fracturing strikes N20°E and dips 65° to the southeast. The outcrops are massive and blocky. Contacts dip westerly from 40° to 70°.

The syenite, quartz-feldspar and feldspar porphyries and grano-diorite? mapped along the eastern side of the Boundary claims appear to be the western edge of the large granitic body located in the south-eastern section of Hincks Township. The variations in the granitic rocks are due to changes in texture and mineral composition.

A narrow lamprophyre dike occurs in the southwestern part of Sheet 1 in contact with a feldspar porphyry intrusive and an andesitic flow.

The McCollum Creek fault is a major structure which strikes in a southeasterly direction across map Sheets 1 and 2 displacing all of the formations by several hundreds of feet horizontally. Shearing, carbonatization and silicification in felsic volcanics occurs along this zone over a strike length of 2,000 feet. As the diabase dike in the northwestern part of the map area is offset it would appear that there have been repeated movements along this structure.

A strong, northerly-striking fault offsets the formations in the eastern part of the claims on Sheets 3 and 4. Shearing is less pronounced than along the McCollum Creek structure, however, carbonatization is moderate with talcose sections.

Another strong, northerly-trending structurs occurs along the

western side of the property on Sheet 2 and forms a deep ravine. This fault terminates at the northeasterly-striking structure through Ezra Lake.

A northwesterly striking fault, marked by a deep ravine, has been mapped in the north-central part of Sheet 1.

East-west faulting, in somewhat of a block pattern, is indicated in the central part of the claims by a study of the aerial photographs. This would possibly explain the abrupt termination of several of the sizeable volcanic flows on Sheet 2. However, due to the lack of ground geologic and topographic information these structures have not been shown on the accompanying plans.

Drag folding was noted in sheared felsitic volcanics to the west of the diabase dike between lines 16W and 20W on Sheet 1. A small, synclinal fold is shown in the volcanics in the southeastern corner of Sheet 3. Sheared, cherty flows occur along the axis where dips are 80° to the southwest. Along the northeast side dips range from 35° to 40° to the southwest while in the spherulitic lava to the southwest dips are 60° to the northeast.

Old trenches, badly slumped-in, were discovered at three locations on the Boundary claims.

- 1) In the eastern part of claim L-1014596 on Sheet 2 over feldspar porphyry mineralized with fine pyrite.
- 2) Between lines 8E and 12E to the northeast of McCollum Creek on Sheet 2 over sheared, silicified and carbonatized felsitic volcanics mineralized with disseminated pyrite. Samples from this area returned assays up to 0.005 ounces of gold.
- 3) At one-half mile south of the base line along line 60E on Sheet 3 over a weakly mineralized syenite porphyry.

#### Magnetometer Survey:

A magnetometer survey was conducted on the claims by R. Teigen during the summer of 1988. Readings were recorded using a Fluxgate Magnetometer - Model MF-1, Serial No. 409107, having sensitivities of 20, 50, 200, 500 and 2,000 gammas as per division for the corresponding scales.

Prior to the survey the instrument had been checked and adjusted so that a gamma value of 1220 corresponds closely with an absolute value of 57,599  $\pm$  15. Munro-Beatty sill base station No. 2 was used for this purpose.

Base control stations were established on the claims as follows; -B.C.S. No. 1 - Line 44E at 1,500' NE of B/L No. 1 1,000 g 2 -" 1,000' 24E 1,145 g 8E 400' 1,150 g 28E on B/L. No. 1 1,080 g 40E 1 950 g 56E 1 950 g 7 -72E 1 1,000 q 8 -4W 3 1,530 g

24W

During the course of the survey the base control station was observed at two to three hour intervals as a check on the working condition of the instrument and to record the daily diurnal variation.

3

1,380 g

Stations were spaced at 50 foot intervals along the grid lines, and a total of 3,071 was recorded during the course of this work.

The results of the survey are shown on the accompanying Geo-Magnetic Profile Plans - Sheets 1 to 4 - on a scale of one inch equals 200 feet. Profiles have been plotted on a scale of one inch equals 4,000 gammas.

All available geological and geophysical data (listed previously) had been reviewed and air photos studied prior to compiling this report.

Due to the uniformity of the magnetometer readings over the map area it was impossible to differentiate between the mafic, intermediate, felsic volcanics and granitic intrusives on the basis of the magnetic data. Consequently, the interpretation shown on the accomplaying plans has been derived from the geological mapping, Government air-magnetic maps and aerial photographs.

Readings on the Boundary Group range in magnetic intensity from a low of 487 to a high of 2,592 gammas. However, the majority fall within a relatively narrow range - 950 to 1,500 gammas. Low readings are sparse, isolated and widely scattered; highs, in general, were recorded over diabase dikes.

On map Sheets 2, 3 and 4 values, on the average, range from 950 to 1,250 gammas. However, readings are slightly higher - 1,200 to 1,400 - along the boundary of claims L-1025458 and 1025459. Over the syenitic intrusive mapped in the southeast corner of Sheet 2 and along the east side of Sheet 3, readings are consistently lower - 925 to 1,075 gammas - than over the basaltic and andesitic flows which underlie

the greater part of the property.

Over the northerly trending diabase dike mapped in the western part of Sheets 1 and 2, values range up to 2,592 gammas in intensity and are clearly above the general background. Higher than normal readings have been recorded in the southwest corner of Sheets 3 and 4. These 1,800 to 2,500 gamma values may be caused by narrow diabase dikes or thin, slightly magnetic basaltic flows.

Readings increase in value along the north part of Sheet 2 and to the east of the diabase dike on Sheet 1 - the average is in the 1,300 to 1,550 gamma range. The isolated high of 2,018 gammas immediately southwest of the lake may be due to an offshoot of the diabase or to buried boulders along the gravel ridge.

The McCollum Creek fault, a major, northwesterly striking zone, is shown on Sheets 1 and 2 and is sharply delinated by the geological mapping and by both ground and aerial topographic data. The strong northerly-trending structure shown along the east side of Sheets 3 and 4 is clearly defined by the geological mapping in the south part of Sheet 3. It also appears as a lineament on the aerial photographs and offsets the magnetite-rich metavolcanics to the south of the Boundary Group as shown on the Government air-magnetic maps. The two northerly striking faults in the western parts of Sheets 2, 3 and 4 and the northeasterly trending zone through Ezra Lake are sharply defined topographically. Electromagnetic Survey:

Electromagnetic surveying was conducted on the property by R. Teigen. J. Delaurier and J. Andrews alternated as assistants. This work was carried out during the summer of 1988.

A McPhar vertical loop reconnaissance electromagnetic unit operating on a frequency of 1,000 cycles per second was used for the survey. The McPhar unit is suitable for use as both a reconnaissance and relatively detailed instrument. In this survey, the transmitter was held vertically at a distance of 200 feet from the receiver; the receiver was then tilted about the axis joining the two coils until a null was observed. Both transmitter and receiver were moved on the same picket line, 200 feet apart, and readings were recorded at 50 foot intervals. Under these operating conditions a depth penetration of 100 feet was attained. Note that the transmitter was stationed to the north of the receiver throughout the survey.

A total of 3,026 stations was recorded during the course of the survey.

The results of this work are shown on the accompanying Electro-Magnetic Profile Plan - Sheets 1 to 4 - on a scale of one inch equals 200 feet. Profiles have been plotted on a scale of one inch equals 40°.

Based upon the results of surveys in both the Matachewan and Matheson areas the following criteria have been used for the interpretation of the electromagnetic survey data. Dip angle changes up to 5° are not considered of any significance. These are presumed to be caused by conductive overburden, incorrect horizontal spacing between the transmitter and receiver due to topography or improper positioning of the units by the operators. Crossovers having dip angle changes between 6° and 9° are classified as weak; between 10° and 14° as medium, and 15° and greater as strong.

Conducting zones are shown by dashed purple lines on the accompanying plans. Due to the grid spacing (400 feet), unless marked geological and geophysical continuity was established, conductors were not extended to the next picket line.

On Sheet 1, crossovers having dip angles of 10° (medium) were recorded to the west of the diabase dike along the north boundary of the claims and on line 4W at 800 feet northeast of base line 3. The latter occurs over an outcrop of andesite adjacent to the contact with a feldspar porphyry dike. Several weak crossovers were recorded in the southeastern and northwestern parts of the sheet.

On Sheet 2, a medium conducting zone, having dip angles up to 14°, has been delineated adjacent to the McCollum Creek fault. This conductor extends in a southeasterly direction from line 00 to line 16E and occurs over sheared volcanics mineralized with disseminated pyrite.

Single crossovers having dip angles of 10° to 11° (medium) were recorded over an outcrop of basalt on line 00 at 400 feet northeast of base line 1; close to the contact of a quartz-feldspar dike on the northeast end of line 4E; scattered over the metavolcanics in the northeastern part of the sheet; to the north of the McCollum Creek fault over sheared volcanics on line 12E, and on lines 20E and 32E in the east-central part in an overburden-covered section. Numerous, scattered, weak crossovers were recorded in all sections with the exception of the southwestern part.

On Sheet 3, a weak to medium conducting zone with dip angles up to 12°, has been delineated striking in a southerly direction from

part of claim L-1025469. This conductor occurs along a low, overburdencovered ridge having angular slabs of felsitic rock mineralized with disseminated pyrite. The overburden in this area appears to be relatively shallow.

A single medium crossover with a dip angle of 10° has been recorded over an outcrop of granite gneiss on claim L-996902. Numerous weak crossovers occur scattered over the central and northeastern parts of the sheet.

On Sheet 4 a weak to extremely weak conducting zone has been outlined in the southeastern part extending from line 88E to 96E. This conductor occurs over an outcrop of andesite having oxidized fractures, is along the strike of a northwesterly trending syenite porphyry dike, and is adjacent to a strong fault zone.

#### Conclusions and Recommendations:

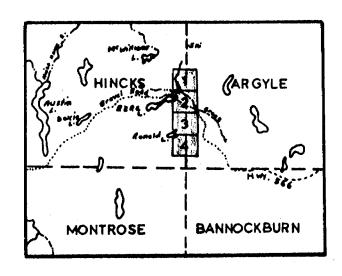
To date, a widely spaced (400 foot) picket line grid has been established and geological, magnetometer and electromagnetic surveys completed. Limited sampling of fractured and silicified zones, mineralized with disseminated pyrite, has been conducted. Assaying showed low gold values - up to 0.005 ozs/ton. The results of these exploration programs on the Boundary Group are definitely encouraging and on this basis further work appears justified at this time.

It is, therefore, proposed that in-between picket lines be cut and chained over the sheared and mineralized felsitic volcanics along the McCollum Creek fault on Sheet 2. This would also cover the medium conductor which has been delineated over a length of 2,000 feet. This should be followed by detailed geological mapping, electromagnetic surveying, rock and soil geochemistry, sampling and assaying. If warranted, plugger work, power stripping and diamond drilling should be considered.

A similar type program should be carried out over the weak to moderate conductor delienated on the low ridge to the north of the access road on Sheet 3. Other medium crossovers may warrant further exploration.

Submitted by:

F.J. Evelegh Exploration Mgr.



PROPERTY LOCATION MAP
BOUNDARY GROUP OF CLAIMS
ARGYLE & HINCKS TOWNSHIPS

Scale: 1" = 4 miles

#### GEOLOGICAL LEGEND

٦		
	6	Quartz Diabase, Diabase
	5	Granite 5a; Syenite 5b; Syenite Porphyry 5b-1; Feldspar Porphyry 5c; Quartz-Feldspar Porphyry 5d; Felsite 5e; Lamprophyre 5f; Granodiorite, Granitic Gneiss 5g; Quartz Diorite 5h
	4 0	Diorite 4a; Gabbro 4b; Peridotite & Dunite (Serpentinized) 4c; Pyroxenite 4d
	3	Felsic Volcanics (Undifferentiated) 3; Rhyolite 3a; Dacite 3b; Fragmental Lava 3c; Cherty Tuff 3d
	2	Intermediate-Basic Volcanics (Undifferentiated) 2; Pillow Lava 2a; Andesite 2a-1; Basalt 2a-2; Diabasic Lava 2b; Spherulitic Lava 2c; Fragmental Lava 2d; Tuff & Chert 2e; Talc-Chlorite Schist 2f; Amphibolite 2g; Agglomerate 2h
	1	Greywacke la; Arkose lb; Quartzite lc; Argillite-Shale ld; Conglomerate le; Iron Formation lf; Chlorite Schist lg
	Cb (	Carbonate Rock
	T-C	Talc-Carbonate Rock
	0. V.	Ouartz Vein

### Abbreviations

Asp	Arsenopyrite	Mag	Magnetite
Asb	Asbestos	Mo	Molybdenite
Brc'd	Brecciated	Ni	Nickel
Carb	Carbonatized	Ox'd	Oxidized
Сру	Chalcopyrite	Py	Pyrite
Chl	Chloritized	Po	Pyrrhotite
Cu	Copper	Q.C.	Quartz-Carbonate
Phs	Galena	Ser	Sericitized
Au	Gold	Sil	Silicified
Grph	Graphite	Ag	Silver
Hem	Hematite	ZnS	Sphalerite
Hbd	Hornblende	Tour	Tourmaline

#### Geological Symbols

Shear Zone

Fault Zone

Contact

Bedding )

Shearing) Attitudes

Jointing)

Dip or Plunge

Lava Flow Top from Pillows

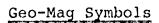
Anticline

Syncline

Grab Sample

Chip Sample

Assay (ozs/ton)



Contour Interval 500 gammas

Magnetic Base Control Station

Geological Contact

G- Geological

M- Magnetic

T- Topographic

Mag. Profile - 1" = 4000g

#### Radiometric Symbols

Total U+Th

Th

8.6 2.7

1.5

Readings in C.P.S.

#### Topographic Symbols

Outcrop

6,5

Small Outcrop

Muskeg, Swamp

Higher Ground

Scarp

Creek

Esker

Bush Road

Drill Hole

Pit, Trench

Shaft, Adit

#### McPhar V.L. Symbols

Dip Angle Profile

Conducting Zone

S - Strong

M - Medium

W - Weak

(+10,-6) X over (degrees)

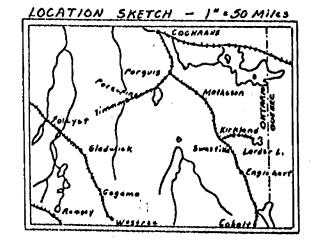
+ive

North & East

-ive

South & West

Transmitter Site



Geol. Survey by - R.F. Kaltwasser

Mag Survey by - R. Teigen

E.M. Survey by - R. Teigen

Rad. Survey by -

Ministry of Northern Development and Mines Report of Work

DOCUMENT No.

Instructions: - Please type or print.

- If number of mining claims traversed

Ontario ,	Geochemical a	nd Expend	W8808	43/	- :Note	Only da	pace on this form, a ys credits calculat	ed in the
1/2	1	1				"Exnendi	turar" annin-	•
(Type of Survey(s)	Londayton	<u></u>	<del>,                                     </del>		: A:#############	* 10.00111 11	i 311	
1	ina i Camb	/ 						
Claim Holder(s)	ical & Geoph	ysicai					111	
	1 - 0 1 - 7 -	9					l Bil	
Manv11	le Canada In	c.	42/	025W0060 2.1172	8 ARGYLE		9	<b>300</b>
			•					Ī
	ox 610, Mat	heson,	Ontar					- [
Survey Company				Date of Survey	(from & to) 88   30 (	18 88	Total Miles of line	Cut
	s above					Mo.   Yr.	5.35	
Name and Address of Author (c								
	velegh, P.O.					POK :		
Credits Requested per Each	Claim in Columns at r	ight		laims Traversed (I	List in num	erical sequ	ence)	
Special Provisions	Geophysical	Days per Claim	Prefix	lining Claim Number	Expend. Days Cr.		lining Claim	Expend.
For first survey:	F1	<del> </del>	Fretix	Number	Days Cr.	Prefix	Number	Days Cr.
Enter 40 days. (This	Electromagnetic	20		777.24		L	1047533	1
includes line cutting)	- Magnetometer	20	1000					
		20					1047534	<b> </b>
For each additional survey:	- Radiometric						1047535	
using the same grid:	- Other							
Enter 20 days (for each)				INIO GEOLOGICA	SURVEY		1047536	<del>  </del>
	Geological	40		SSESSMENT			1047537	1.
	Geochemical			OFFICE.				
Man Days	<del></del>	Days per						<del> </del>
	Geophysical	Claim		NOV 1 0 19	288			
Complete reverse side	- Electromagnetic			11171-2. 010				
LANCE CHE THE CONTROL	7				<b></b>			<del>  </del>
WELLE IN THE	• Magnetometer		148.54	RECEIV	E.D.			
	Radiometric		Regions.			<b>1833</b>		
1 000 000	<u>-   -   -   -   -   -   -   -   -   -  </u>					拉斯斯		<del>  </del>
In a SEb Sa 1300	Other	L		RECE	VED			
9.31am	Geological							
				OCT = 3	1988			<del>  </del>
	Geochemical			001	1300			
Airhorne Cooking	, ·	Days per Claim						
	_	Cisiiii		MINING LAND	C CFCTI	<b>一个工程</b>		<del>  </del>
Note: Special provisions	Electromagnetic			mitina Laite	O OLON			
credits do not apply to Airborne Surveys,	Magnetometer							
to randome durings.		<b></b>						<b> </b>
	Radiometric	1		-				
Expenditures (excludes power	er stripping)	·						
Type of Work Performed								
		ŀ						
Performed on Claim(s)						NA STATE	······································	
,							<del></del>	
<del></del>	····			·				
		- 1		<del></del>		经验		<del>  </del>
Calculation of Expenditure Days	Credits	·aral						
Total Expenditures		otal Credits		į				

Total Days Cr. Recorded in columns at right. 400 Recorded Holder or Agent (Signature) Date Sept 28/88 Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

F.J. Evelegh,

\$

Instructions

1362 (85/12)

P.O. Box 610

15

Matheson, Ontario POK 1NO

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected

Sept 28/88

**Date Certified** 

For Office Use Only

Total number of mining claims covered by this report of work.

Ministry of Northern Development and Mines

Report of Work

DOCUMENT No.

Instructions: - Please type or print.

_	11 HUINDER OF	mining claims	traversec
	exceeds space of	n this form, at	tach a list
lote: —	Only days or	edits calculate	d in the
	"Expenditures"	section may b	e entered

Mining Act    Township or Area	mns.
Geological & Geophysical  Claim Holder(s)  Township or Area  Argyle & Hincks Townshi  Prospector's Licence No.	ps
Geological & Geophysical  Claim Holder(s)  Argyle & Hincks Townshi  Prospector's Licence No.	ps
	ps
Manual 12 a game to vive Land Mark Colombia	
Manville Canada Inc. T-1330	
Address	
P.O. Box 610, Matheson, Ontario POK 1NO Survey Company   Date of Survey (from & to)   Total Miles of line Cut	
5 11 97 126 9 99	
Same as above Day Mo. Yr. Day Mo. Yr. 26.2  Name and Address of Author (of Geo-Technical report)	
F.J. Evelegh, P.O. Box 610, Matheson, Ontario POK 1NO	
Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)	
Special Provisions   Geophysical   Days per Claim   Prefix   Number   Days Cr.   Prefix   Number   Da	
For first survey:	
Enter 40 days, (This included line cutting)	
- Magnetometer 20 983103 1025469	
For each additional survey: - Radiometric 996900 1025470	
using the same grid: Enter 20 days (for each) - Other 996901 1025471	
40 996902 1025472	
Geochemical 996903	
Geophysical Days per Claim 996904	
Complete reverse side and enter of a 13 hele   Complete reverse side   Properties   Properties	
1014393	
SEP 6 1988 - Radiometric 1014594	
Other 1014595	
MINING LANDS SECTION DOICE 1014596	
NA PIV	
Airborne Credits  Days per	
Ctaim 1025458	
Note: Special provisions credits do not apply	
to Airborne Surveys. Magnetometer 1025460 718 111 22 147516	
Expenditures (excludes power stripping)	
Type of Work Performed 1025462	
1025463	
Performed on Claim(s) 1025464	
1025465	
Calculation of Expenditure Days Credits Total	
Total Expenditures Days Credits 1025467	
\$ + 15 = Total number of mining	
Instructions claims covered by this report of work.	
Total Days Credits may be apportioned at the claim holder's	
in columns at right. Total Days Cr. Data Recorded / Mighing Recorder,	
2 240 Hug. 3 /88. W. a. Woelder	
Date Recorded Holder or Agent (Signeture) 2, of Date Approved as Recorded Branch Distriction of the Control of	-
29/8/88  Certification Verifying Report of Work	
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work	k

or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

F.J. Evelegh, P.O. Box 610

Matheson, Ontario POK 1NO Date Certified 29/8/88

OFFICE USE ONLY

837 (85/12)

#### Ministry of Northern Development and Mines

# Geophysical-Geological-Geochemical Technical Data Statement

File	

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Sur	vey(s) <u>Ge</u>	ologica	l & Geophysical	
Township or	r AreaA	rgyle &	Hincks	MINING OF A THE TRANSPORT
Claim Holde	_		Canada Inc.	MINING CLAIMS TRAVERSED  List numerically
Survey Com	panys	ame as	above	L- 983102 • L-1025467 •
Author of R	leportF	J. Eve	legh	(prefix) (number) 983103 • 1025468
Address of A	AuthorE	ox 610,	Matheson, Ont. POK 11	NO 1025460-
Covering Da	tes of Surv	ey_ 5/11	/87 to 17/10/88 (linecutting to office)	996900• 1025469•
Total Miles	of Line Cut	32.1	, , ,	996901• 1025470•
Total Wiles	or mile ou			996902 • 1025471 •
SPECIAL	PROVISIO	DNS	DAYS	996903• 1025472•
CREDITS	REQUEST	TED	Geophysical per claim	
			-Electromagnetic 20	996904 • 1047533•
	0 days (inc g) for first		-Magnetometer 20	996905 • 1047534•
survey.	ig) for thist		-Radiometric	- 1014593 • 1047535 •
•	0 days for	each	–Other	1014593 • 1047535 •
	survey usi		Geological 40	1014594 • 1047536.
same grid.			Geochemical	1014595 1047537
<u>AIRBORNE</u>	CREDITS	(Special provi	ision credits do not apply to airborne survey	1014596
Magnetomet	er		netic Radiometric days per claim)	1014597 •
DATE: 20	/10/88	SIGNA	ATURE: Howelife	1025458 •
			Author of Report or Agent	1025459 •
			4.0	1025460
Res. Geol		Quali	fications <u>63.1067</u>	
Previous Sur				1025461.
File No.	Type	Date	Claim Holder	10.25.462. •
	••••••	• • • • • • • • • • • • • • • • • • • •		1025463 •
	• • • • • • • • • • • • • • • • • • • •	••••••		1025464 *
		• • • • • • • • • • • • • • • • • • • •		1025465
		••••••		1025466 •
		• • • • • • • • • • • • • • • • • • • •		TOTAL CLAIMS 33

#### **GEOPHYSICAL TECHNICAL DATA**

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

	Tumber of Stations Mag - 3071; E.M 3026 Number of Readings Mag - 3189; E.M 3064  tation interval										
P	rofile scale Mag - 1" = 4,000g; E.M 1" = 40°										
C	ontour intervalAverage number of readings per claim per survey - 94.7										
7 %	Instrument Fluxgate Magnetometer Model MF-1, Serial No. 409107										
MAGNETIC	Accuracy - Scale constantsee attached photocopy										
Z	Diurnal correction method <u>all readings corrected to value of Base Station No. 1</u>										
MA	Base Station check-in interval (hours) 2 hours										
	Base Station location and valueattached										
ELECTROMAGNETIC	Instrument McPhar Dual Frequency Electromagnetic Unit - Serial No. 30-6507  Coil configuration vertical  Coil separation 200'										
TAG	Accuracy										
RO	Method:										
ij	Frequency 1,000 c.p.s.										
ELI	(specify V.L.F. station)  Parameters measured dip angle										
≽I	Instrument Scale constant										
RAVITY	Corrections made										
S	Base station value and location										
	Elevation accuracy										
	Instrument										
	Method										
	Parameters - On time Frequency										
건	- Off time Range										
RESISTIVITY	- Delay time										
IST	- Integration time										
RES	Power										
	Electrode array										
	Electrode spacing										
	Type of electrode										

INDUCED POLARIZATI

								at .							
B.C.S.	No.	1	_	Line	44E	at	1,50	00'	NE	of	B/L	No.	1	_	1,000g
н	11	2	-	11	24E	11	1,00	00'	11	11	11	11	ī		1,145g
11	Ħ	3	_	11	8E					***		**	1	_	
11	11	4	_	H			B/L						_		-,-009
11	11	5	_	11	40E		וו עלם	110.	7					-	-,0009
11	11	_	_	**	56E		11	11	1					-	950g
11	11	7		*11	72E		11	н	J.					-	950g
II	11	0	_	11			11	11	Ţ					_	1,000g
,,	,,	0	_	**	4W		"	"	3					_	1,530g
		7	_		24W	••	••	70	3					-	1,380g

#### SPECIFICATIONS OF FLUXGATE MAGNETOMETER MODEL MF-1

Plus or minus -Ranges: 1,000 gammas f. sc. 3,000 10,000 30,000 100,000 Sensitivity gammas/div. 200 500 2,000 Taut-band suspension Meter: 1000 gammas scale 11/2" long — 50 div. 3000 gammas scale 1 11/16" long — 60 div. 1000 to 10,000 gamma ranges  $\pm$  0.5% of full scale 30,000 and 100,0000 gamma ranges  $\pm$  1% of full scale Accuracy: -40°C to +40°C Operating Temperature: --40°F to -100°F Less than 2 gammas per °C (1 gamma /°F) Temperature Stability: Total 1 gamma P-P Noise Level: ± 1 gamma for 24 hours at constant temperature Long Term Stability: 10,000 to 75,000 gammas by 9 steps of approximately 8,000 gam-**Bucking Adjustments:** mas and fine control by 10 turn potentiometer. Convertible for (Latitude) southern hemisphere or  $\pm$  30,000 gammas equatorial. 1.7 ma per persted for 1000 to 100,000 gamma ranges with Recording Output: maximum termination of 15,000 ohms. DC to 5 cps (3db down) Response: Amphenol 91-MC3F1 Connector: 12 x 1.5V-flashlight batteries "C" cell type) **Batteries:** (AC Power supply available) 50 milliamperes Consumption: Instrument — 6½" x 3½" x 12½" 165 x 90 x 329 mm Battery pack — 4" x 2" x 7" **Dimensions:** 100 x 50 x 180 mm Shipping Container — 10" dia x 16" 254 mm dia. x 410 mm Instrument — 5 lbs. 12 oz. 2.6 kg. Weights: 1.0 kg. Battery Pack — 2 lbs. 4 oz. 6.0 kg. Shipping — 13 lbs.



<b>T</b>	
Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	
(type, depth - include outcrop	map)
OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)	
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding results)	
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
(specify for each type of survey)	)
Accuracy (specify for each type of survey)	)
Aircraft used	
Sensor altitude	
Navigation and flight path recovery method	
Aircraft altitude	Line Spacing
Miles flown over total area	

...

#### GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken	
Total Number of Samples	ANALI HUAL METHODS
Type of Sample(Nature of Material)  Average Sample Weight	p. p. m
Method of Collection	p. p. b.
Soil Horizon Sampled	•
Horizon Development	
Sample Depth	
Terrain	
Tellant	
Drainage Development	
Estimated Range of Overburden Thickness	•
	Analytical Method
	Reagents Used
SAMPLE PREPARATION	Commercial Laboratory (tests
(Includes drying, screening, crushing, ashing)	Name of Laboratory
Mesh size of fraction used for analysis	Extraction Method
	Analytical Method
	Reagents Used
	C1
General	General

Robertson Twp. Mc Neil Twp. 4450331924095 1924108 1 4104 1424106 1924109 780581 780580 780575 424101 42401 97410 5 1 10057 1 424101 1948847 924 098 42409 1 924 100 1 1240 3 749045 1 780570 780570 780570 780570 9 4 5811 948827 948823 948829 9488401448841 948812 948821 948824 948830 948834 948842 948813 | 948810 | 948825 | 948831 | 948838 | 948843 780587 | 780588 | 780589 | 780580 | 780378 | 780377 948844 | 948814 | 948816 | 948837 | 948844 | 780594 | 780593 | 780595 | 780591 | 780379 | 1948815 948818 948827 948833 948836 949845 | 170086 | 179986 | 1759868 | 1799869 | | 1778600 | PATENTED | 448 816 | 448 817 | 448 878 | 148 835 | 448 846 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780355 | 780555 | 780555 | 780555 | 78055 LEASES' 737273 737274 8222530 C. 1036517 1026518 LOCATED 1822255 918082 918081 414 1737271 | 773696 - 1773595 | 822252 10188 1018 M.R. M.R. M.R. 10188 M.R. C 1622988 622991 0 **ROADS** 822545 | BE254E 10189 10186,026514 627989. 622990 M.R. 622990 KING'S 1047537 **RAILWAYS** 1/8605 8604 L 1026612 1026513 1026515 MR. C. 1026516 Tomfox MINES HERCAS CANCELLED 1025460 8606 den M.R. C. 1026743 12007 GRAVEL FILE : 165449 Ö  $\tilde{\Omega}$ ĺ025466. rivers. 1025469 996902 996903 1027033 1027039 1025472 L 1027348 L 185940 859411 859114 983103 1027038 996904 859109 859112 017035 1027037 1057320 153737 - 510 341 953737 1027034 859100 1859107 859108 1 1828193 579601 953936195393 95 3936 9539 B 9639 3 9 9539 5 9 5394 2 519129 1859/09/859101 8591061 84<del>3201-</del>\| B42202 163 941 9589443 L 105 3+94· Ashley 859105 047468 | 571382 | 63944 | 639 | 963948 | 963954 | 963954 | 963957 | 11810 MR L MR 37 18 81 34175 M.R. | M.R. | M.R. | M.R. | 195168 | 963962 963965 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 99396 | 9 Bannockburn

THE TOWNSHIP

# ARGYLE

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

# LEGEND

101

**U**--

CROWN LAND SALE LAND OCCUPATION MINING , RIGHTS ONLY . SURFACE RIGHTS ONLY IMPROVED ROADS HIGHWAYS POWER LINES MARSH OR MUSKEG

# NOTES

400' Surface rights reservation WITHDRAWALS AND REOFFNINGS

- Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W. 8/85
- Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. w. 18/85
- Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W. 101/86
- (83) AND PART (R) REOPENED FOR STAKING UNDER ORDER 0-90/87 NR

DATE OF ISSUE

JUL 22 1988.

LARDER LAKE

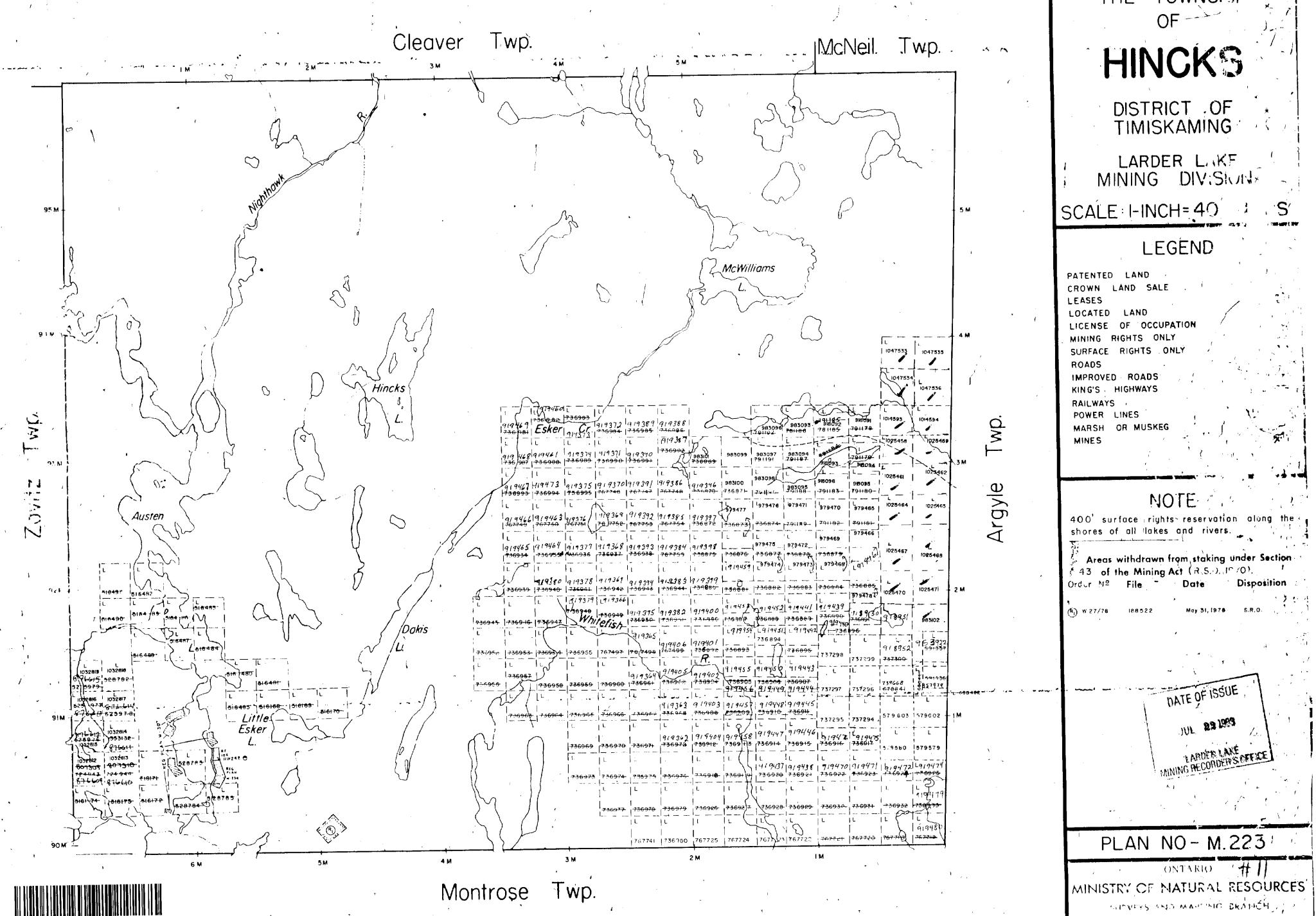
PLAN NO.- M-203 # 5

ONTARIO - , --

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

200

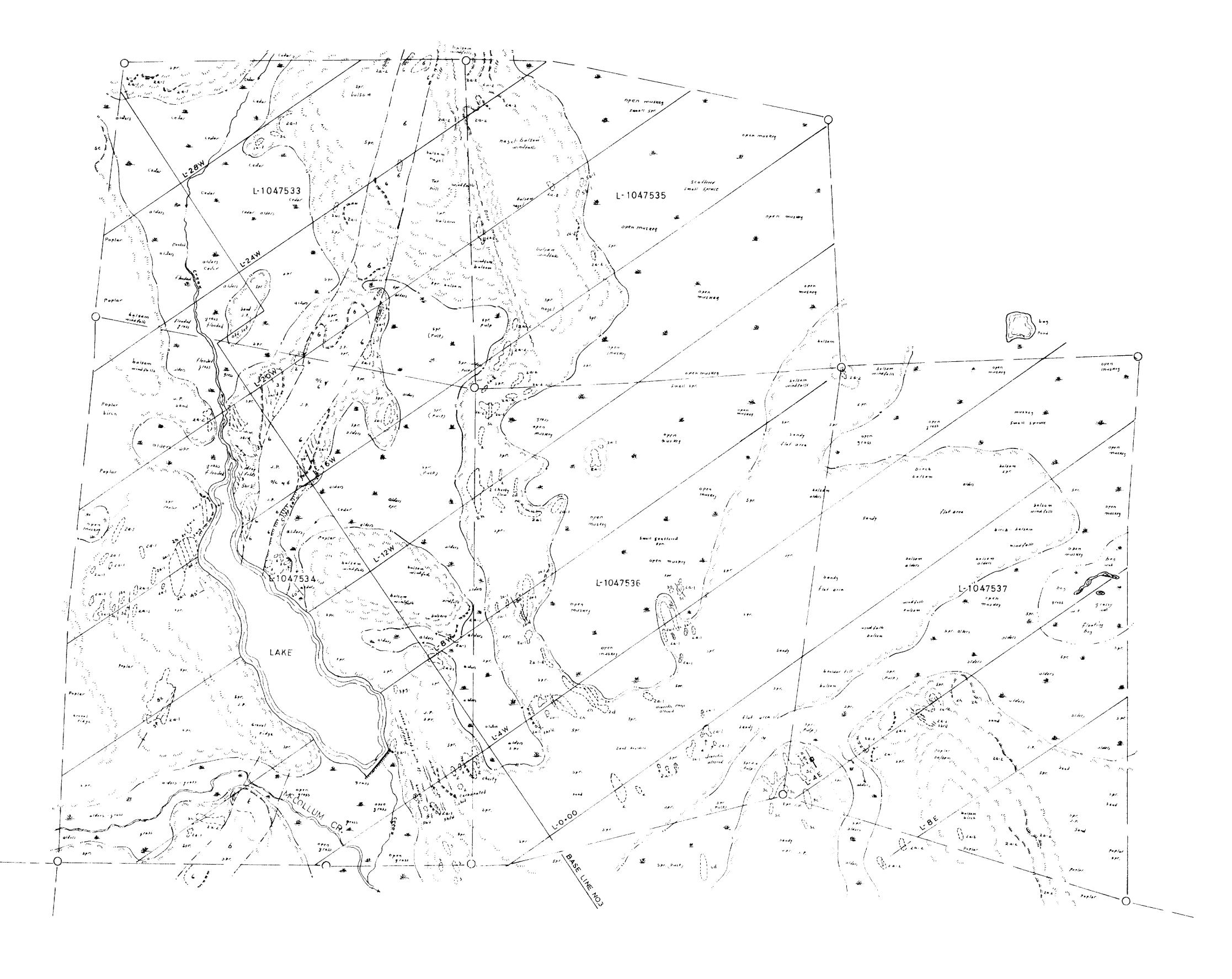


210

THE TOWNSHIP

400' surface rights reservation along the

MINISTRY OF NATURAL RESOURCES



L 918091

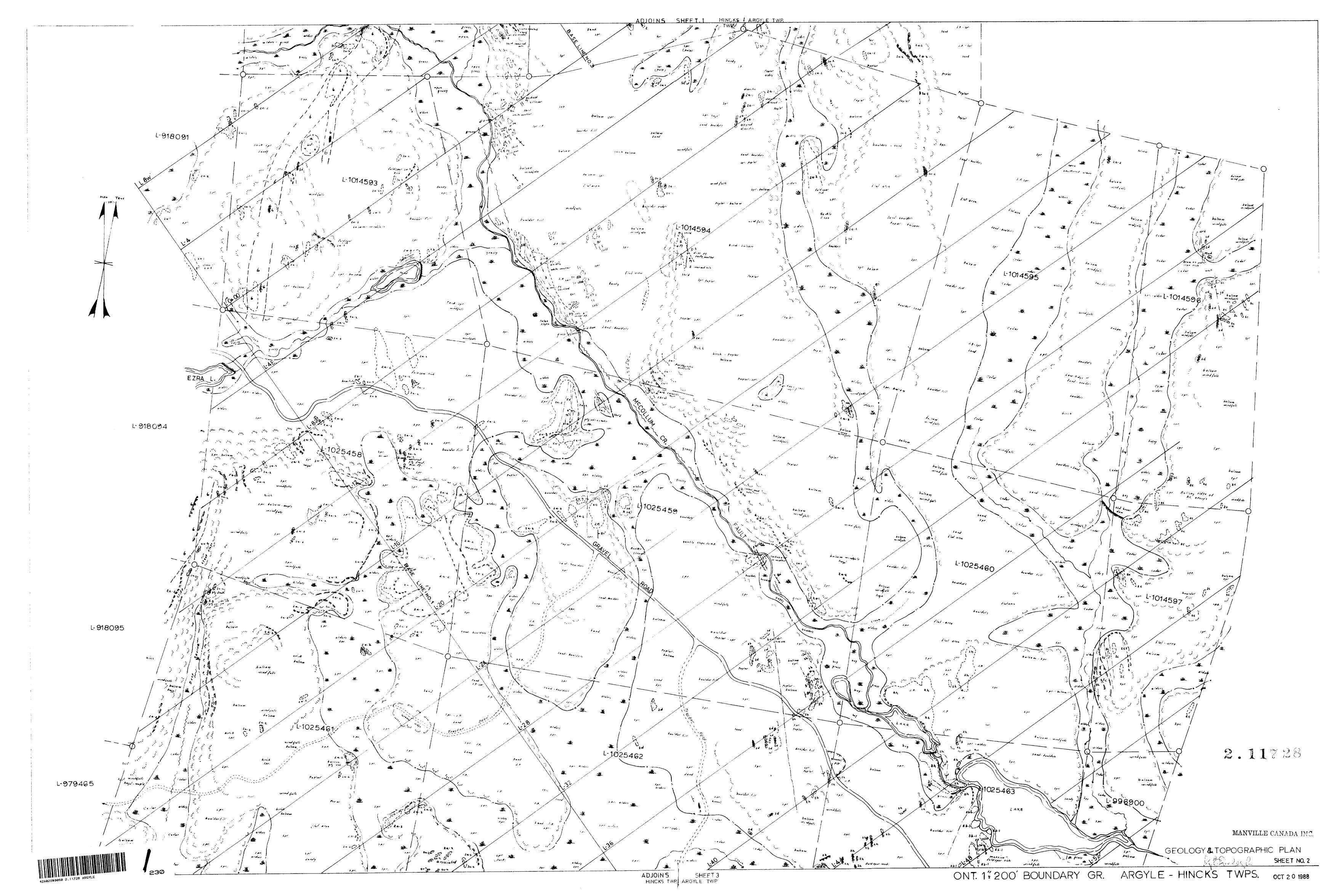
MANVILLE CAMADA INC.

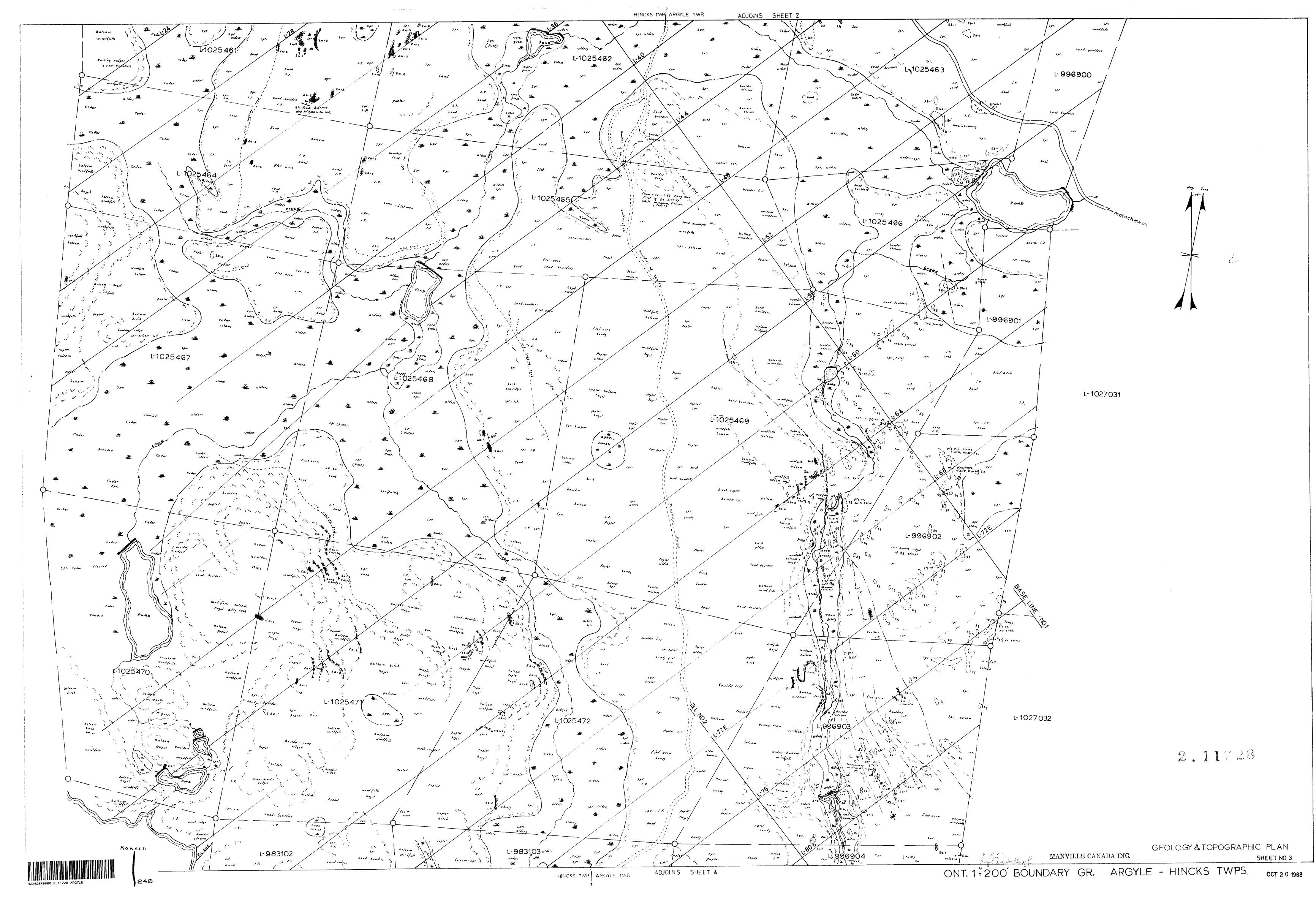
GEOLOGY&TOPOGRAPHIC PLAN

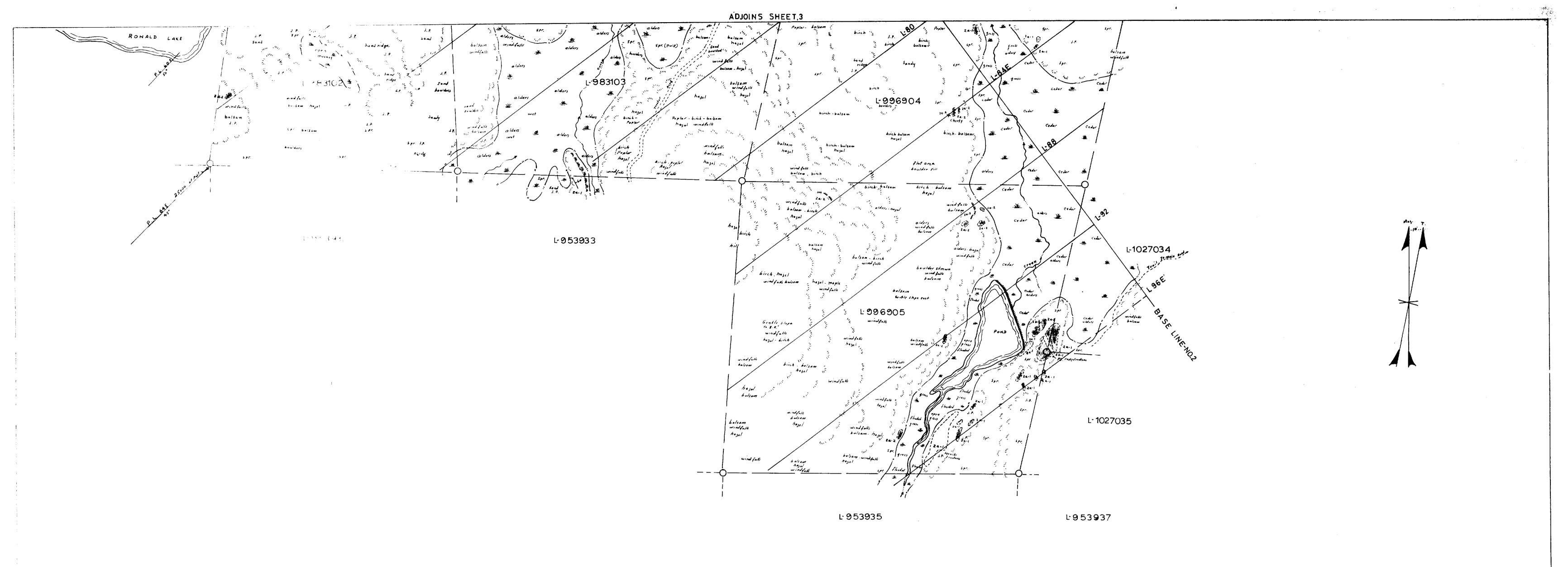
ONT. 1"200' BOUNDARY GR. ARGYLE HINCKS TWPS. OCT 2 0 1983

ADJOINS SHEET, 2

HINCKS ARGYLE TWP.

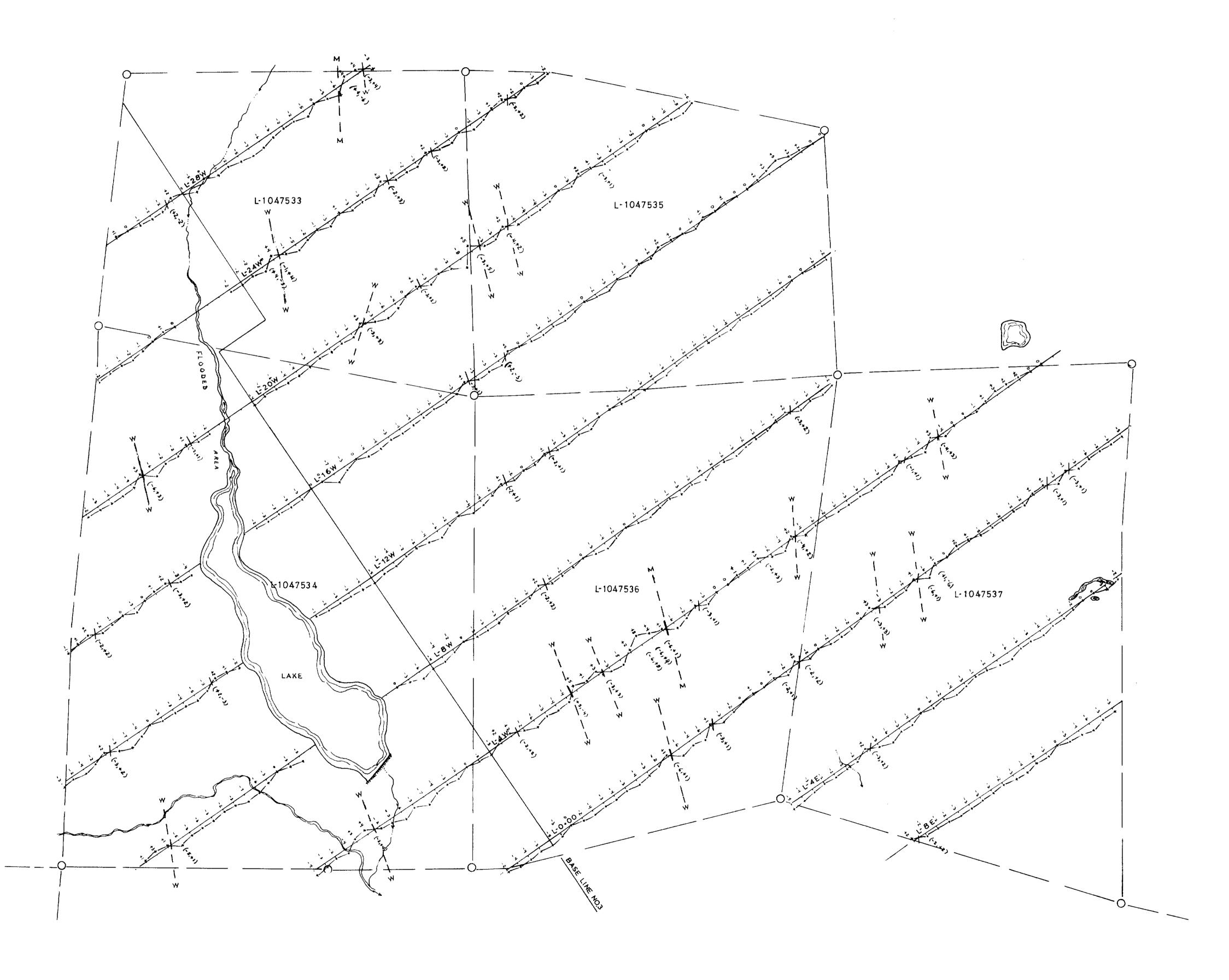






2.11728

Mac True

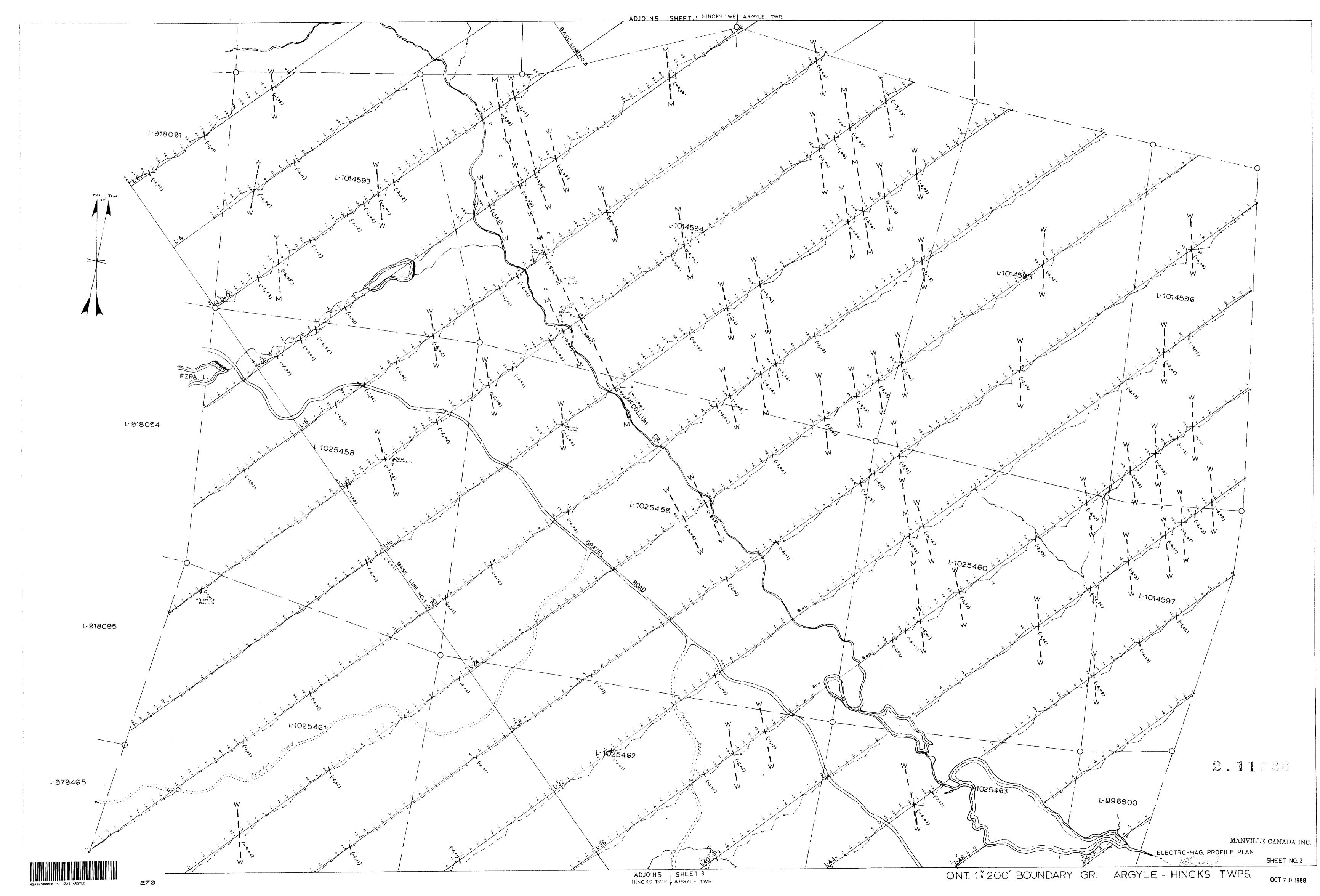


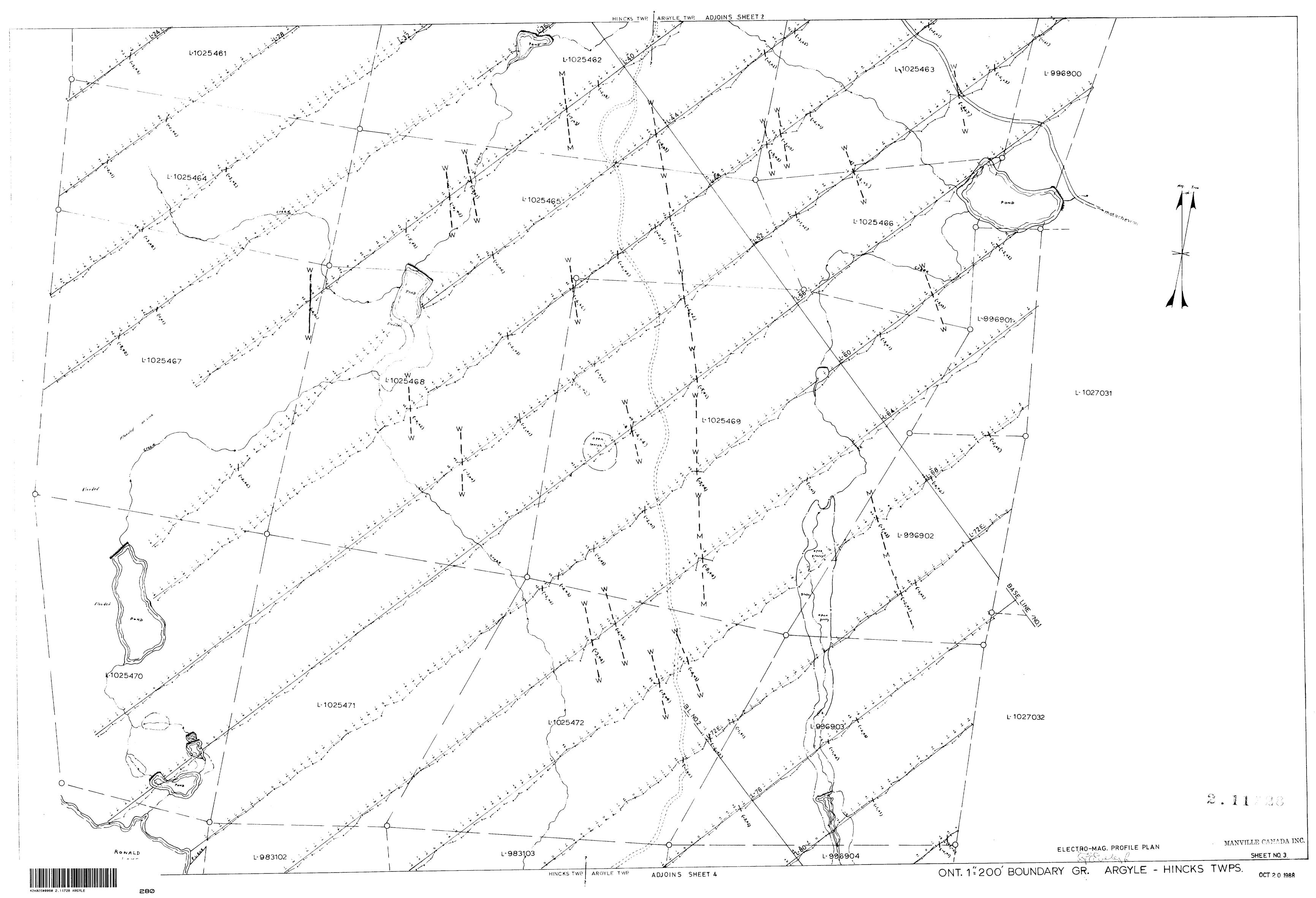
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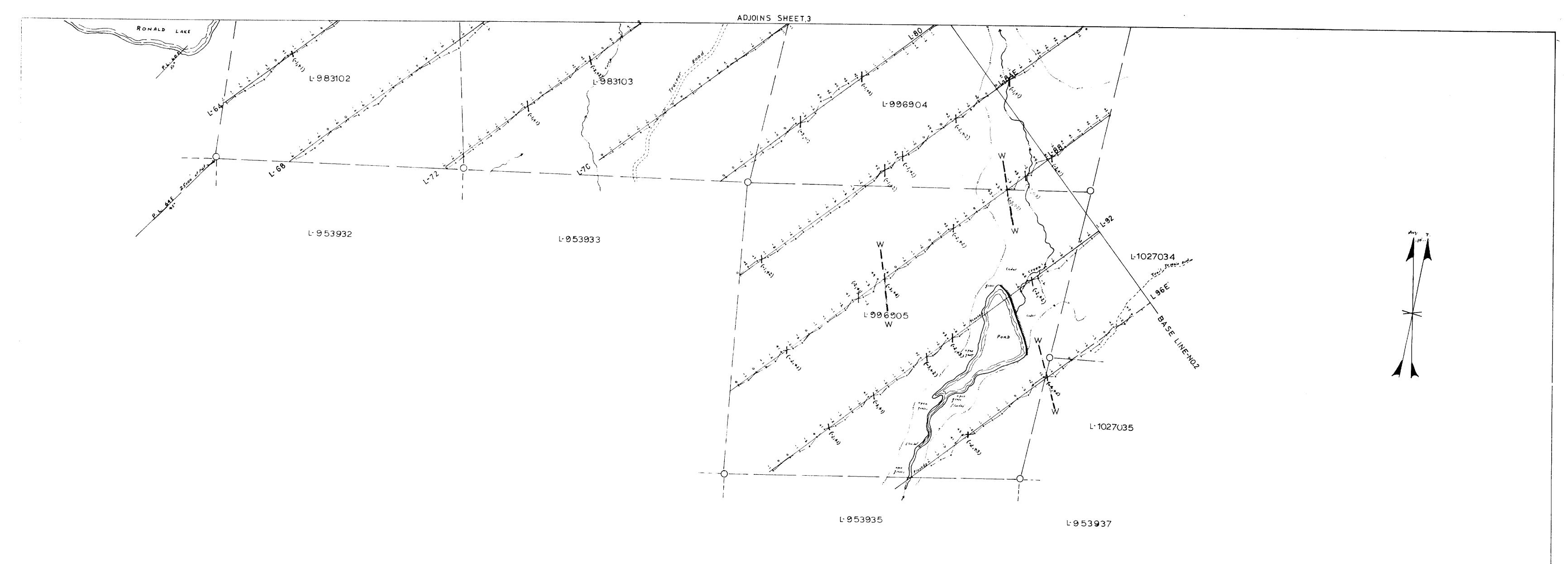
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MANVILLE CANADA INC

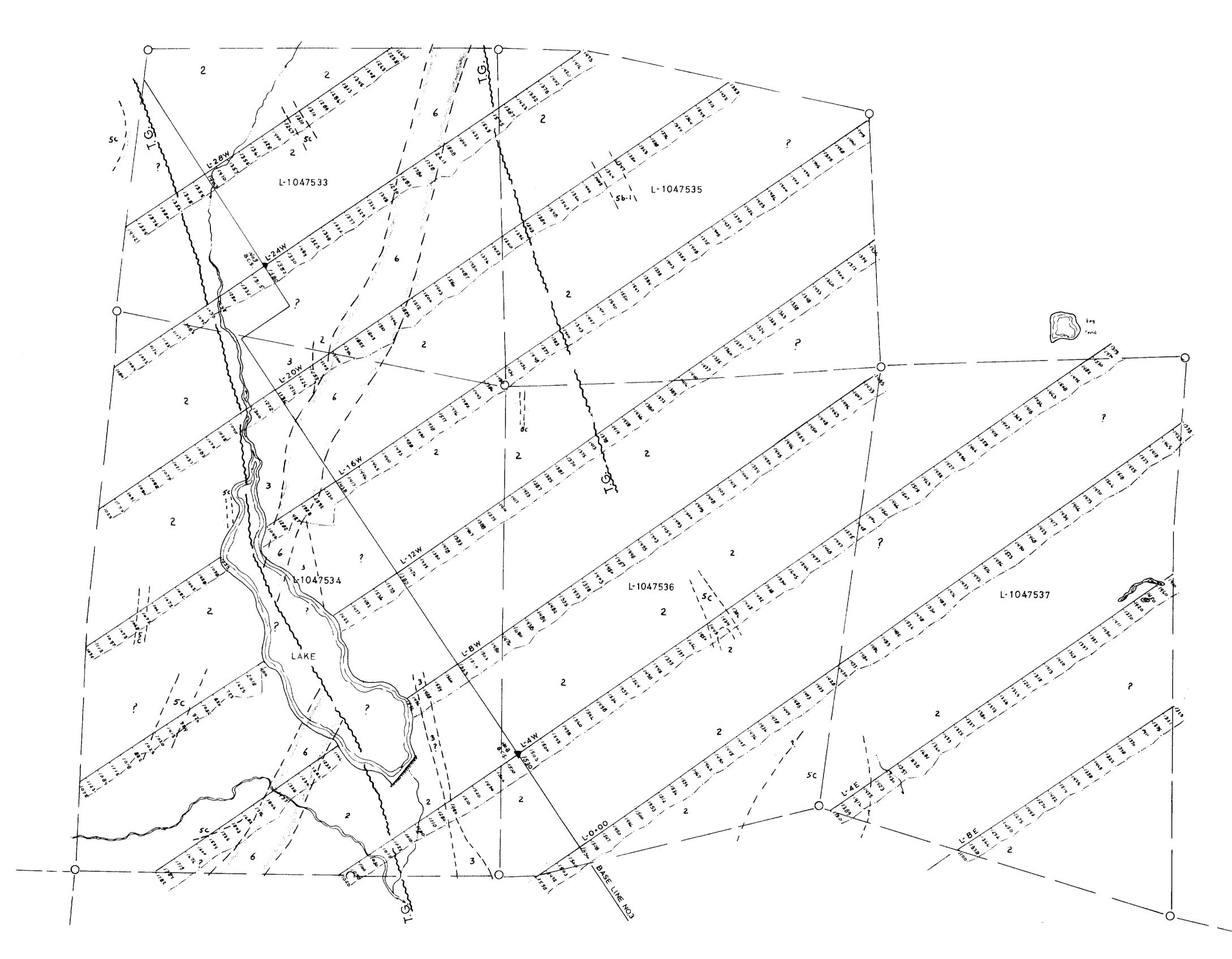
ELECTRO- MAG. PROFILE PLAN







2.11728



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GEO-MAG PROFILE PLAN MANVILLE CANADA DE SHEET NO.1

