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IntroductionFage 1, 2Property2,Location and Accessibility2,Tepography2,Previous Work2, 3Line Gutting and Surveying3,General Geolegy3, 4Magnetometer Survey4, 5, 6, 7Electro-Magnetic Survey7, 8,Conclusions and Recommendations8, 9	******	42801NE0062 63.833 REEVES
Property2,Location and Accessibility2,Tepography2,Previous Work2,Line Cutting and Surveying3,General Geology3,Magnetometer Survey4,Electro-Magnetic Survey7,Conclusions and Recommendations8,Sessment Repert	Introduction	
Location and Accessibility2,Tepography2,Previous Work2, 3Line Gutting and Surveying3,General Geology3, 4Magnetometer Survey4, 5, 6, 7Electro-Magnetic Survey7, 8,Conclusions and Recommendations8, 9	Property	
Tepography2,Previous Nerk2, 3Line Gutting and Surveying3,General Geology3, 4Nagnetometer Survey4, 5, 6, 7Electro-Magnetic Survey7, 8,Conclusions and Recommendations8, 9Assessment Report	Location and Locasticity	2,
Previous Work2,Line Cutting and Surveying3,General Geology3,Magnetometer Survey3, 4Hagnetometer Survey4, 5, 6, 7Electro-Magnetic Survey7, 8,Conclusions and Recommendations8, 9	•	2,
Previous Work   2, 3     Line Cutting and Surveying   3,     General Geolegy   3, 4     Magnetometer Survey   4, 5, 6, 7     Electro-Magnetic Survey   7, 8,     Conclusions and Recommendations   8, 9     Assessment Report	Tepography	2.
Line Gutting and Surveying 3, General Geology 3, 4 Nagnetometer Survey 4, 5, 6, 7 Electro-Magnetic Survey 7, 8, Conclusions and Recommendations 8, 9	Previous Work	
General Geology3,Nagnotometer Survey4, 5, 6, 7Electro-Magnetic Survey7, 8,Conclusions and Recommendations8, 9Assessment Report	Line Cutting and Support	2, 3
Magnetometer Survey   3.4     Electro-Magnetic Survey   4.5.6.7     Conclusions and Recommendations   7.8.     Assessment Report   8.9	-	3,
Magnetometer Survey 4, 5, 6, 7 Electro-Magnetic Survey 7, 8, Conclusions and Recommendations 8, 9		3. 4
Electro-Magnetic Survey 7, 8, Conclusions and Recommondations 8, 9	Magnetometer Survey	
Conclusions and Recommendations 8, 9 Assessment Report	Electro-Magnetic Survey	4, 3, 6, 7
Assessment Report		7, 8,
Assessment Report 1, 2.	conclusions and Recommendations	8, 9
Assessment Report 1, 2,	••••	* * • •
•	Assessment Report	1, 2.

Geo-Nagnetic Contour Plan (East and West Sheets) Scale 1" = 2001 Electro-Magnetic Profile Plan (East & West Shoets)Scale 1" = 200+





<b>IND</b> 42801NE0062 63.833 REEVES	Ø10C
Introduction	rago 1, X
Property	2,
Location and Accessibility	2,
Tepography	2,
Previous Nork	2, 3
Line Cutting and Surveying	3,
General Geolegy	3. 4
Nagnetometer Survey	4, 5, 6, 7
Electro-Magnetic Survey	7 <b>, 8</b> ,
Conclusions and Recommendations	8, 9
Assessment Report	1, 2.

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Geo-Nagnetic Contour Plan (East and West Sheets) Scale 1" = 200' Electro-Magnetic Profile Plan (East & West Sheets)Scale 1" = 200'

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# REPORT ON MAGNETOMETER AND BLECTRO-MAGNETIC SURVEYS ON THE CROSSOVER LAKE GROUP OF CLAIMS IN SEWELL TOWNSHIP, SUDBURY MINING DIVISION, PROVINCE OF ONTARIO.

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#### Introduction:

The following report describes the magnetometer and electro-magnetic surveys recently completed on the Canadian Johns-Manville Co. Limited claims located in the south central section of Sewell Township, Susbury Mining Division, Province of Ontario.

Staking of the original group of fourteen claims was carried out by L. Allison and H. Ferguson on March 20th, 21st, 22nd and 23rd, 1956 and these claims were recorded and transferred to Ganadian Johns-Manville Co. Limited on March 28th of the same year. An additional seven claims were staked by James Elack on July 12th and 13th, 1956 and these claims were recorded and transferred on August 7th of that year.

A base line, treading M79°E, was turned off from a point immediately south of the Ne. 3 Post of claim S-94258. Right-angled picket lines were out at 300 foot intervals to both the north and south of this base line. A second base line, (paralleling Ne. 1) was turned off from the 2100 foot picket on line 0400. This base line was extended east to the boundary of the property and served as a tie line for lines out south from the Ne. 1 Hase Line. The Ne. 2 base line was out to the west to line 18400 at which location it was effect 660 feet to the south and extended west to the property boundary.

Line cutting and chaining was contracted to Jean Alix Co. Limited of Val d'Or, Quebec. Numbered pickets were located by chainage at 100 feet intervals. along these picket lines.

A magnetometer survey was carried out on the claims group by James Black, a geophysical eperator for Canadian Johns-Manville Co. Limited, with the assistance of A. Oakes. Readings were observed using a Sharpe's D-I-M type instrument. Stations were spaced at 50 and 100 feet intervals. An electro-magnetic survey was conducted on the preperty by John Black, a geophysical operator for Canadian Johns-Manville Co. Limited, with the assistance of P. Broughton. Readings were observed using a Ronka Horisontal Loop type instrument. Stations were spaced at 100 foot intervals.

- 2 -

Supervision and interpretation of this work was the responsibility of F. J. Evelegh, senior geologist with Canadian Johns-Manville Co. Limited, Matheson, Ontario.

#### Preperty:

Twenty-one claims are included in this group and are numbered as follows:-

S-94254 to 94267 inclusive

S-97985 to 97991 inclusive

Approximately 840 acres are comprised in this group of claims. Location and Accessibility:

The Ganadian Johns-Manville Co. Limited claims are located in the south central section of Sewell Township, Sudbury Mining Division, Province of Ontario. The claims lie to the south of Lap Lake. Grossever Lake is situated approximately one-half mile south of the Warren Lake Road, a gravel highway connecting Timmins and Kukatush. The latter is a flag stop on the main line of the Ganadian National Railway. The claims group lies appreximately 37 miles southwest of Timmins and is readily accessible by motor vehicle. Topography:

All work completed on this claims group to date has been conducted during the winter, consequently topography will not be discussed in this report but will be included in the detailed geological report.

### Previous Nork:

This area was mapped by E. W. Todd and the results were published in 1924 in Vol. XXXIII, Part 6 - Annual Report of the Department of Mines. The general geology of the area is shown on Map No. 33-G, entitled "Groundhog River Area" on a scale of one inch equals one and one-half miles. This map accompanies Todd's report. No information on this immediate area was available at the Ontario Department of Mines in Timmins. Presumably no detailed exploration work had been conducted on this claims group. Line Gutting and Surveying:

11

Two base lines, trending N79°E, and spaced 2100 feet apart, were established on the property, as described on Page 1 of this report and as shown on the accompanying plans. Right-angled offset lines were established at 300 foot intervals and pickets were spaced at 100 foot intervals along these offset lines. Line cutting and chaining was contracted to Jean Alix Co. Limited, Val d'Or, Quebec.

During the course of this work a total of 29 miles of line was cut and chained. This mileage is divided as follows:-

Picket lines - 26.3 miles

Base lines - 2.7 miles

Line cutting and chaining on this group of claims was carried out during the period Nevember 7th to 26th, 1956 inclusive.

# General Geology:

The rock formations in the area may be classified as follows:-(Vol. XXXIII, Part 6, 1924, O.D.N)

Glacial and Recent:	Sand Gravel, Clay Swamp
Matachewan Series?	Diabase dikes
	Intrusive Contact
Algoman?	Granite, feldspar porphyry, syenite, pegnatite
	Intrusive Comtact
Keewatin:	Schistose basalt, andesite, dacite, rhyelite, dierite and diabase; carbonate schists; iron formation and associated sediments; veloanic tuff; altered peridotite.

- 3 -

- 4 -

# General geological mapping by E. W. Todd, geologist for the Ontarie Department of Mines, shows the claims group to be underlain by intermediate to basic volcanic rocks which have been intruded by basic and acidic dikes. A large body of granite, pegnatite and granite gnoiss lies to the morth and west of the area surveyed.

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Reconnaissance mapping of these claims by M. Ferguson, a field geologist for Canadian Johns-Manville Go. Limited, substantiated previous findings but also disclosed the presence of an ultrabasic intrusive striking in a northeasterly direction access the map area. The ultrabasic varies from a massive, relatively unaltered peridotite to a highly serpentinised phase. Gabbro and diorite are in contact with the ultrabasic and underlie the greater part of the claims group. Several small exposures of granite and basic volcanics were noted during the course of this work.

### Magnetometer Surveys

A magnetometer survey was conducted over the Gressover Lake Group of claims by Jim Black with the assistance of A. Oakes, during the period January 6th to January 31st, 1957. Magnetic readings were recorded using a Sharpe's D-I-M type instrument. This magnetometer had been calibrated in such a manner that readings approximate these obtained when using a Watts Type Vertical Variometer. This instrument was checked and set on the Government Magnetic Base Station at Matheson and a gamma value of 1220 corresponded to an absolute value of 57,599-15 gammas.

A base control station, established on line 15400E at the Ne. 1 base line, and having a fixed value of 1,383 gammas, was tied into our main Penhorwood base station at Tentcamp Lake. This station has a fixed value of 2,049 gammas. Three temporary control stations were established on the claims group and are described as follows:-

T. C. S. #1 - on No. 2 base line on Line 21400E - value 841 gammas T. C. S. #2 - on No. 2 base line on Line 3400W - value 2219 gammas T. C. S. #3 - on No. 3 base line on Line 30400W - value 967 gammas Due to the pauoity of rock exposures it has been extremely difficult to interpret the magnetic results in this area. Interpretation is further complicated by the similarity in magnetic intensity over the massive peridotite, intermediate to basic volcanics and the basic intrusives. It should also be noted that picket lines on the "East Sheet" were cut to intersect sulphide zones at right angles and consequently closely parallel the trend of the ultrabasic rocks, obscuring the magnetic picture to a large extent.

5

On the accompanying plan, the massive peridotite, basic intrusives (gabbro and diorite) and the intermediate to basic volcanics have been shown grouped together and coloured brown. Until detailed geological mapping and prospecting has been completed it is practically impossible to differentiate between these rock types on the basis of the information derived from the magnetometer survey. Similarly, no structure has been shown on the accompanying plans - this will be interpreted after completion of the geological work.

A series of granitic intrusives, trending in a north-south direction on the "East Sheet" and slightly east of north on the "West Sheet", have been interpreted as occurring in the area surveyed. The magnetic intensity over these acidic rocks varies from 0 to 1000 gammas. It should be noted that the area of magnetic "lews" on the "West Sheet", shown as granite, could also be indicative of a band of north-south trending sedimentary rocks. Detailed geological mapping may clarify this interpretation.

Magnetic readings over the massive peridetites, velcanics and basic intrusives range in value from 1000 to 4000 gammas - the latter values being obtained along the contacts of the highly serpentiaised sections. These rock types trend in an east-westerly direction on the "West Sheet" and then swing to a steep northeasterly trend on the "East Sheet". As previously stated in this report, it has been impossible to further differentiate these rooks with the information currently available.

Highly serpentinised sections have been interpreted as occurring within the ultrabasic - basic complex on the basis of the magnetic results. Values over these sections range in intensity from 3000 to ever 10,000 gammas. The highly serpentinised peridetites occur, for the mest part, in the extreme eastern section of the map area and are shown as a series of distinct lenses. It is highly probable that with east-west trending picket lines and a new magnetic survey along the lines, these disconnected magnetic "highs" would be found to form a continuous some along the east boundary of the property and having a steep northeasterly strike.

The most interesting some of magnetic "highs" eccurs on line 3400 East to the south of the No. 2 Base Line. Magnetic values range from 3000 to over 7700 gammas and the anomaly extends over a length of 1200 feet and attains a maximum width of 1500 feet. This anomaly has been interpreted as indicating a body of highly serpentimized peridetite. To the west of this some several small east-west trending "highs" indicating highly serpentimized ultrabasics have been delineated.

It should be noted that highly carbonated sections of the serpentimite have a magnetic intensity of less than 3000 gammas in most instances. Consequently part of the areas shown as gabbre, volcanics and peridetite may actually be underlain by this carbonated facies.

Note that readings were observed on control and/or base stations at least four times per day as a check on the working condition of the instrument and the daily diurnal variation.

The results of the magnetometer survey are depicted on the accompanying plans (East and West Sheets) on a scale of one inch equals 200 feet.

- 6 -

Contour lines of equal magnetic intensity have been drawn at 500 gamma intervals from 0 to 2000 gammas and at 1000 gamma intervals from 2000 te 6000 gammas. A 10,000 gamma contour is shown over a magnetic peak on the "West Sheet". Interpretation has been based on a study of the contoured magnetic plan, regional geology and aerial photographs.

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#### Electro-Magnetometer Survey:

An electro-magnetic survey was conducted over the Gressever Lake Group of claims by John Black with the assistance of P. Broughton during the period January 19th to February 5th, 1957. Readings were recorded using a Ronka Horisontal Loop apparatus. This unit had been sereed over the ultrabasic sill at the Barton Greek Mine of Canadian Johns-Manville Ge. Limited in Beatty Township.

Test surveys have been completed with this unit over a graphitic sone, a massive sulphide sone and a disseminated sulphide sone as aids in interpreting the results obtained on the Grossover Lake claims. The following results were obtained during these tests:-

1. Massive sulphide zone - a strong positive rise on the in phase followed by an intense negative with a resumption to zero when the station foll off the conductor. The out of phase component remained within  $\frac{1}{2}5$  of zero.

 Disseminated sulphide some - similar to No. 1 but not nearly as strong.
Graphitic some - both the in phase and out of phase components paralleled each other or followed the pattern of No. 1.

It should also be noted that coil spacing, (should be exactly 200 feet) and the angle of the coils to the horisontal (each coil should be horisontal) play a large part in this work. Errors in either one or both of the above may cause anomalies of a sufficient magnitude to indicate the

- 7 -

presence of a disseminated sulphide some. Consequently, topography is an important factor in this type of survey.

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Several conducting sones, varying in strength from weak to streng, have been shown on the accompanying plans. On the "Nest Sheet" on line 39400W to the south of the base line the in phase component ranges from 42 to 438 to 43 while the out of phase component remains within the range 0 to 2. Although there is no crossover as found in the test surveys, the topography is flat and consequently the pronounced positive reading should indicate the presence of a conducting sone.

On the "East Sheet" a strong conducting some has been interpreted as occurring on line 9400E immediately south of the No. 1 Base Line. The in phase component varies as follows:- 42, 419, 424 and 45 while the out of phase component varies from  $\overline{2}$  to  $\overline{10}$  to  $\overline{3}$ , establishing a strong ratio between the two curves  $-\frac{1}{24}$  to  $1\overline{0}$ . As the topography is flat in this section this some definitely warrants further attention. The remainder of the conducting somes have been classed as medium to weak and may be indicative of highly disseminated sulphide mineralization, conductive soil due to high water content or due to topography. However, a majority of the conducting somes should be further explored to determine the limitations of this type of surveying equipment.

# Conclusions and Recommendations:

Magnetic and electro-magnetic surveys have been completed on the Grossover Lake Group of claims and several areas of ultrabasic rocks and a few moderate to strong conducting somes outlined. In view of these results a detailed geological survey is recommended for the claims group to be followed by check electro-magnetic surveying (preferably using Sharpe's Vertical Loop type equipment) and by detailed magnetic surveying (using the A-2 type magnetometer) with east-west trending lines to clarify the attitude

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# and size of the ultrabasics.

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F. J. Evelogh, Sr. Geologist.

May 22mi, 1957.

No assessment work has been recorded on the North Reeves Group of claims within the past few years. However, in the early 1950's, Canadian Johns-Manville Company Limited carried out a detailed exploration program consisting of geological mapping, magnetometer surveying and diamond drilling on the Reeves Group of claims immediately to the south of the North Reeves block. An economic deposit of chrysotile asbestos was outlines during the course of this work.

#### Line Cutting and Surveying:

During the early part of October, 1956, R. Todd, using a transit, turned off a base line trending east-west through the claims group. This base line was started from the steel pin at the No. 1 Post of surveyed claim 8-59721. Right-angled offset lines were established at 300 foot intervals. Line cutting and chaining was contracted to Jean Alix Company Limited of Val d'Or, Quebec and this work was conducted during the period October 14th - 23rd, 1956. Pickets with numbered locations were established at 100 foot intervals along the offset lines.

A total of10.7miles of line was cut and chained during the course of this contract. This mileage is divided as follows:-

> Picket lines 9.6 miles Base line 1.1 miles

### Geological Survey:

The outcrops on the property described in this report were mapped by R. Todd with the assistance of H. MacDougall during the period October 22nd to 29th, 1956. Mapping was carried out from the offset picket lines by the pace and compass method and the results are shown on the accompanying plan on a scale of 1 inch equals 400 feet.

The following. "Table of Formations" is taken from the Fifty-Minth Annual Report of the Ontario Department of Mines, entitled "Geology of the

- 3 -

CENOZOIC Pleistogene: Glacio-fluvial sands and gravels **T111** PRECAMBRIAN Matachewans Diebase Quarts veins, carbonate veins Lamprophyryre Algomans Granite, granite gaeiss; granodiorite, hornblendequarts diorite, syenite; porphyries Feldspar porphyry Granite porphyry, associated feldspar porphyry Algoman(?): quarts-feldspar porphyry Felsite and felsite breccia Quarts porphyry and quarts porphyry breedia Serpentinite Haileyburian(?): Granodiorite, quarts diorite, diorite, gabbro Keewatin(?): Feldspar porphyry, granite porphyry Banded iron formation Conglomerate, arkose, greywacke, argillite; phyllite, slate Keewatin: Acidic volcanics and associated intrusives; minor dioritic tuffs and dikes; derived schists Intermediate to basic volcanics and associated intrusives; minor acidic volcanics and sediments; derived schists.

<u>Keewatini</u> The oldest rocks in the group have been ascribed to the Keewatin period. Here they are represented entirely by highly schistose volcanics. The type specimen is a schistose, soft grey-green fine to medium grained rock. Originally the rock was probably andesite in composition but has now undergone a high degree of chloritisation and carbonatisation. Introduction of carbonate has resulted in numerous calcitic stringers parallel to the schistosity. A secondary set of "tension threads" of calcite is often found at right angles to the schistosity and this gives a network appearance to some specimens. The presence of occasional crystals of primary quarts suggests that some of the lavas may have been more dacitic. The volcanics carry minor amounts of oube pyrite and also occasional cubes of megnetite which appear to be pseudomorphs after pyrite. No economic sulphide occur-

- 4 -

... ith-Muskego Townships Area" and compiled by V. K. Prest.

saces were noted.

<u>9 Haileyburian:</u> A coarse grained crystalline rock has been mapped on the group as a quartz-gabbro. Quartz stringers 2 to 3 inches in width occur throughout the rock.

<u>Matachewan and Keweenawani</u> The youngest rocks on the claims group are represented by a narrow dike of diabase. The diabase is intrusive into the Keewatin volcanics and is found outting the chlorite schists in the southeast portion of the claims. The rock is medium grained, typically textured and contains disseminated flakes of pyrite and some magnetite.

# Magnetometer Survey:

A magnetometer survey was conducted over the North Reeves Group of claims by L. Allison with the assistance of J. Chisolm during the latter part of October, 1956. Magnetic readings were recorded using a Sharpe's D-I-M type instrument. This magnetometer has been calibrated in such a manner that readings approximate those obtained when using a Watte Type Vertical Variometer. This instrument was checked and set on the Government Magnetic Base Station at Matheson and a gamma value of 1,220 corresponds to an absolute value of 57,559<sup>±</sup>15 gammas. The base station established at the base line on picket line 0400, and having a value of 3,531 gammas, was tied into base stations on other recently surveyed groups in the area. One temporary control station, having a value of 3,039 gammas, was established at the base line on picket line 27400E.

Readings were recorded on the base and/or temporary control station at least four times per day as a check on the working condition of the instrument and the daily diurnal variation.

, The results of the magnetometer survey are depicted on the accompanying plan on a scale of 1 inch equals 400 feet. Contour lines of equal magnetic intensity have been drawn at 500 gamma intervals from 1,500 to 5,500

- 5 -

i was. Interpretation has been based upon a study of the contoured magnetometer plan, geological plans and aerial photographs.

Schistose volcanios, highly chloritised and carbonatised, underlie the major part of the surveyed area. Magnetic readings over these volcanics range in value from less than 1,500 to nearly 4,000 gammas - somewhat higher than is normally found over intermediate volcanics in this area. However, magnetite was noted in these rocks during the course of the geological mapping accounting for the higher magnetic readings recorded during the survey.

Magnetic readings over the gabbro and diabase range in value from 2,000 to 5,600 gammas. The three basic intrusives shown on the accompanying plan with magnetic values in excess of 4,000 gammas may have been affected by the serpentinization of the ultrabasics on the Reeves Group, accounting for the increased magnetite content. It is also possible that these somes of magnetic "highs" may represent small intrusive bodies of serpentinized peridotite.

Structurally, no major fault or longitudinal fault or shear somes have been delineated by this survey. Magnetic values over the different rock types are too closely allied for any detailed interpretation.

# Conclusions and Recommendations:

Detailed magnetometer and geological surveys have been completed on the North Reeves Group of claims which are underlain by intermediate volcanics intruded by small bodies of basic or ultrabasic rocks. If the magnetic "highs" represent serpentinised peridotite the intrusives are too small to contain an economic fibre deposit and consequently the claims are of no interest for asbestos exploration. However, the possibility of sulphide deposits cocuring on the claims group should be tested and in this respect an electromagnetic survey should be conducted over the picket lines

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R. V. Todd, Field Geologist.

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F. J. Evelegh, Br. Geologist.





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# INDEX

Introduction	Page 1
Property	2
Location and Accessibility	2
Topography	2
Previous Work	2, 3
Line Cutting and Surveying	3,
Geological Survey	3, 4, 5
Magnetometer Survey	5, 6,
Conclusions and Recommendations	6, 7

. . . . .

Geomagnetic Contour Plan	Scale 1" - 400"
Geologic and Topographic Plan	Scale 1" - 400"

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020C

# INDEX

......

Introduction	Page 1	
Property	2	
Location and Accessibility	2	
Topography	2	
Previous Work	2,	3.
Line Cutting and Surveying	3,	
Geological Survey	3,	4, 5
Magnetometer Survey	5,	6,
Conclusions and Recommendations	6,	7

Geomagnetic Contour Plan	Scale	1* - 400*
Geologic and Topographic Plan	Scale	1" - 400"

# REPORT ON GEOLOGICAL AND MAGNETOMETER SURVEYS ON THE NORTH REEVES GROUP OF CLAIMS IN REEVES TOWNSHIP, SUBJURY MINING DIVISION. PROVINCE OF ONTARIO.

#### Introduction:

The following report describes the geological and magnetometer surveys recently completed on the Canadian Johns-Manville Company Limited claims located in the southeastern portion of Reeves Township, Sudbury Mining Division, Province of Ontario.

Staking of the North Reeves Group of claims was carried out by L. Allison and these claims were recorded and transferred to Canadian Johns-Manville Company Limited on March 28th, 1956.

A base line, tranding east-west, was started by R. Todd using a transit from the steel pin at the No. 1 post of surveyed claim 8-59721. Picket lines turned off at right angles to this base line, were established at 300 foot intervals. Line cutting and chaining of offset picket lines was contracted to Jean Alix Company Limited of Val d'Or, Quebec. Mumbered pickets were located at 100 foot intervals along these lines.

Geological mapping of the group was conducted by R. Todd, a field geologist of Canadian Johns-Manville' Company Limited, with the assistance of H. MacDougall. Rock outcrops were tied into the numbered pickets on the offset lines and base line by the pace and compass method. All promenent topographic features were noted during the course of the survey and are shown on the accompanying plan.

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A magnetometer survey was carried out on the claims group by L. Allison, a geophysical operator for Canadian Johns-Manville Company Limited, with the assistance of J. Chisolm. Readings were observed using a Sharpe's D-I-M type instrument. Stations were spaced at 100 foot intervals.

Supervision and interpretation of this work was the responsibility of F. J. Evelegh, senior geologist with Canadian Johns-Manville Company Limited, Matheson, Ontario.

#### Property:

Seven claims are included in this group and are numbered as follows: 8-94247-48=49-50-51=52-53

Approximately 280 acres are comprised in this block of claims.

#### Location and Accessibility:

The Canadian Johns-Manville Company Limited claims are located in the southeastern portion of Reeves Township, Sudbury Mining Division, Province of Ontario. These claims are contiguous with the Reeves Group and are situated along the north boundary of surveyed claims S-59721-22 and S-59024-25-26. The Warren Lake Road crosses the north section of the block facilitating access by motor vehicle from Timmins, which is located approximately 45 miles to the northeast. A permanent camp has been constructed at the junction of the Warren Lake Road and the Mat River, approximately 15 miles southwest of the North Reeves claims.

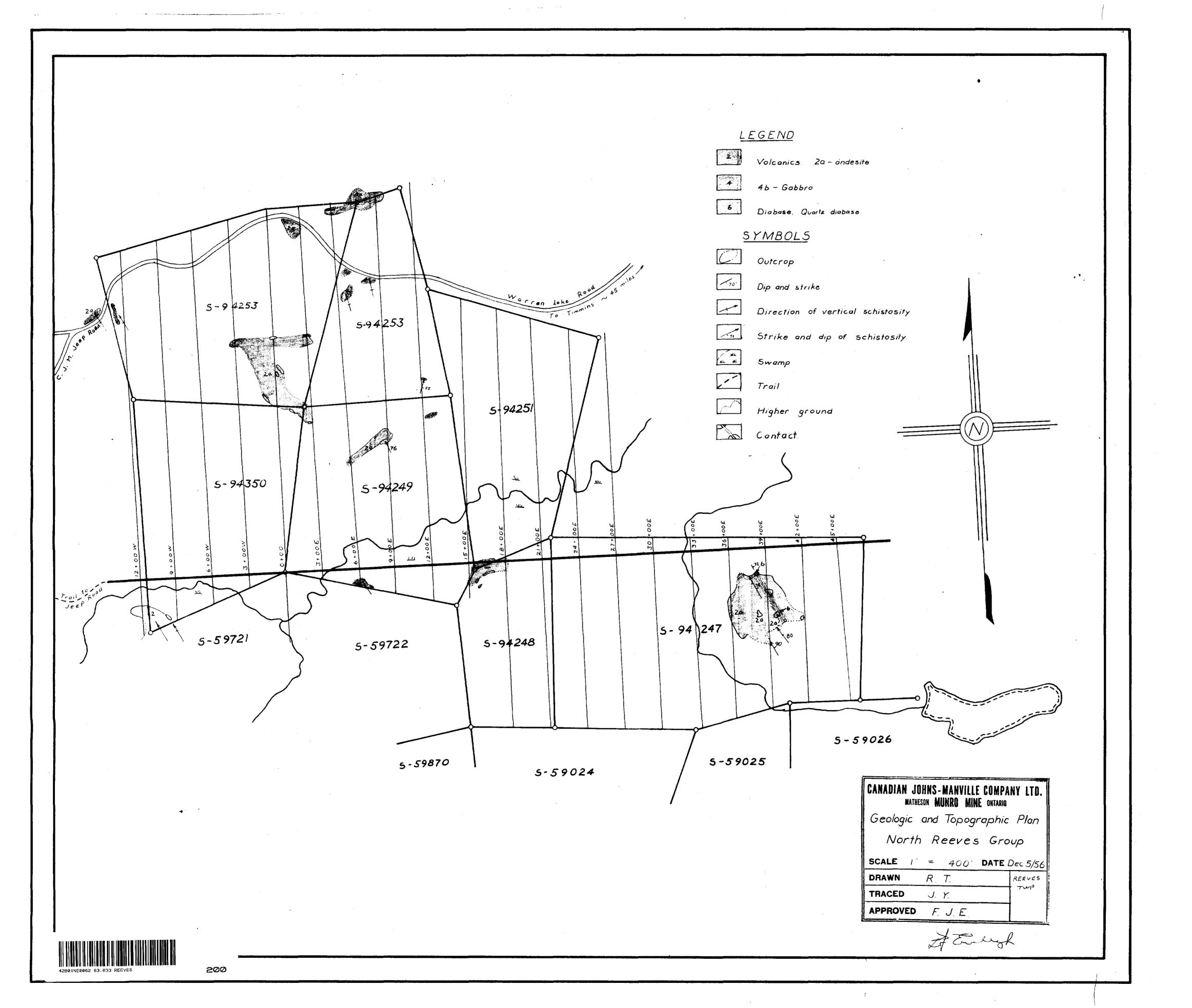
# Topography:

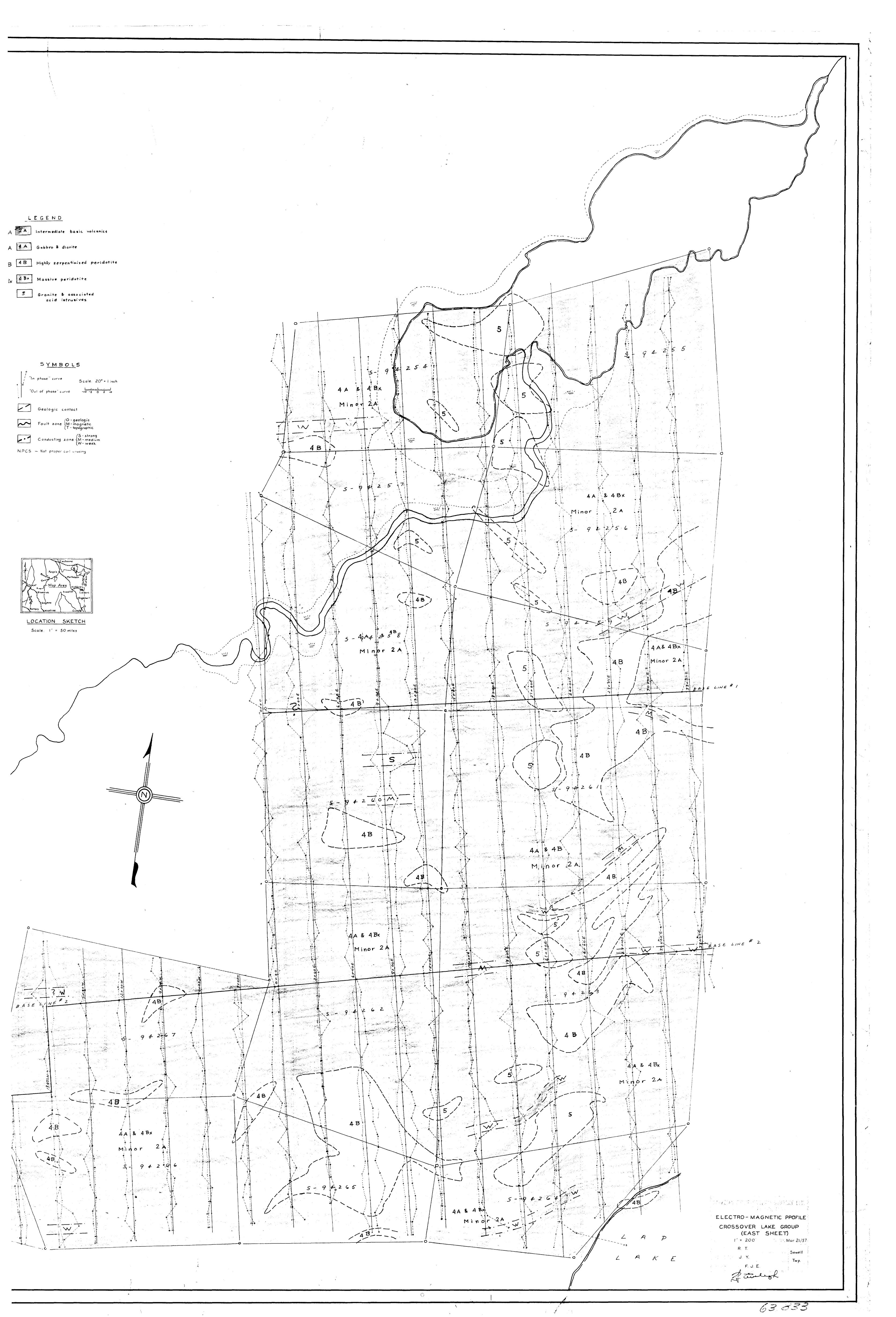
Relatively flat topography characterises the area, however, two sections of higher ground have been noted in the northwest and southwest - central parts of the claims group. The elevation increases again to the north of the Marren Lake Road. Low-lying, swampy terrain predominates over the remainder of the group. Black spruce, with poplar and balsam timber the higher ground while cedar and tamarack are found in the swampy areas. Two small creeks drain to the northeast through the North Reeves claims - the more northerly of the two has been named the West Grawford River.

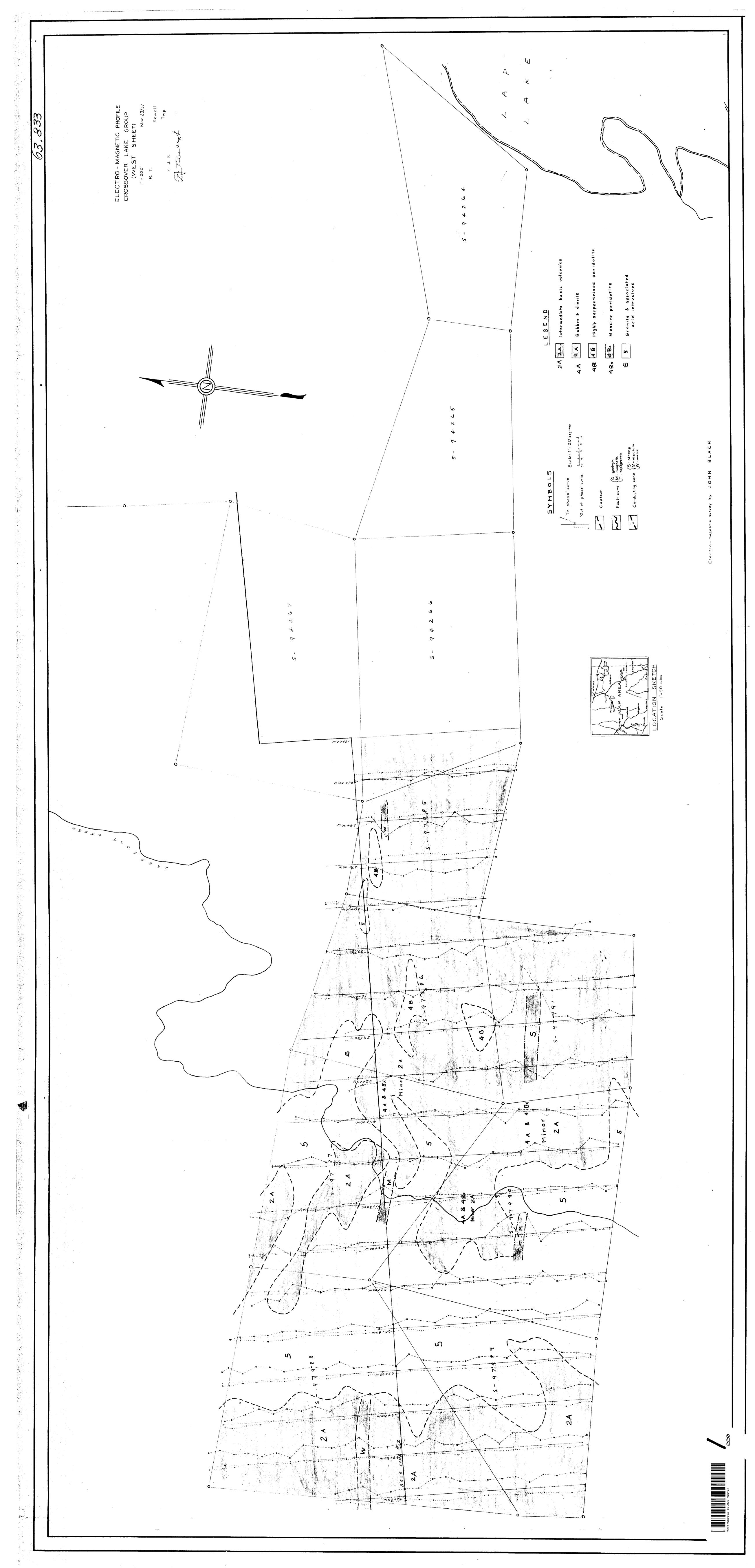
### Previous Work:

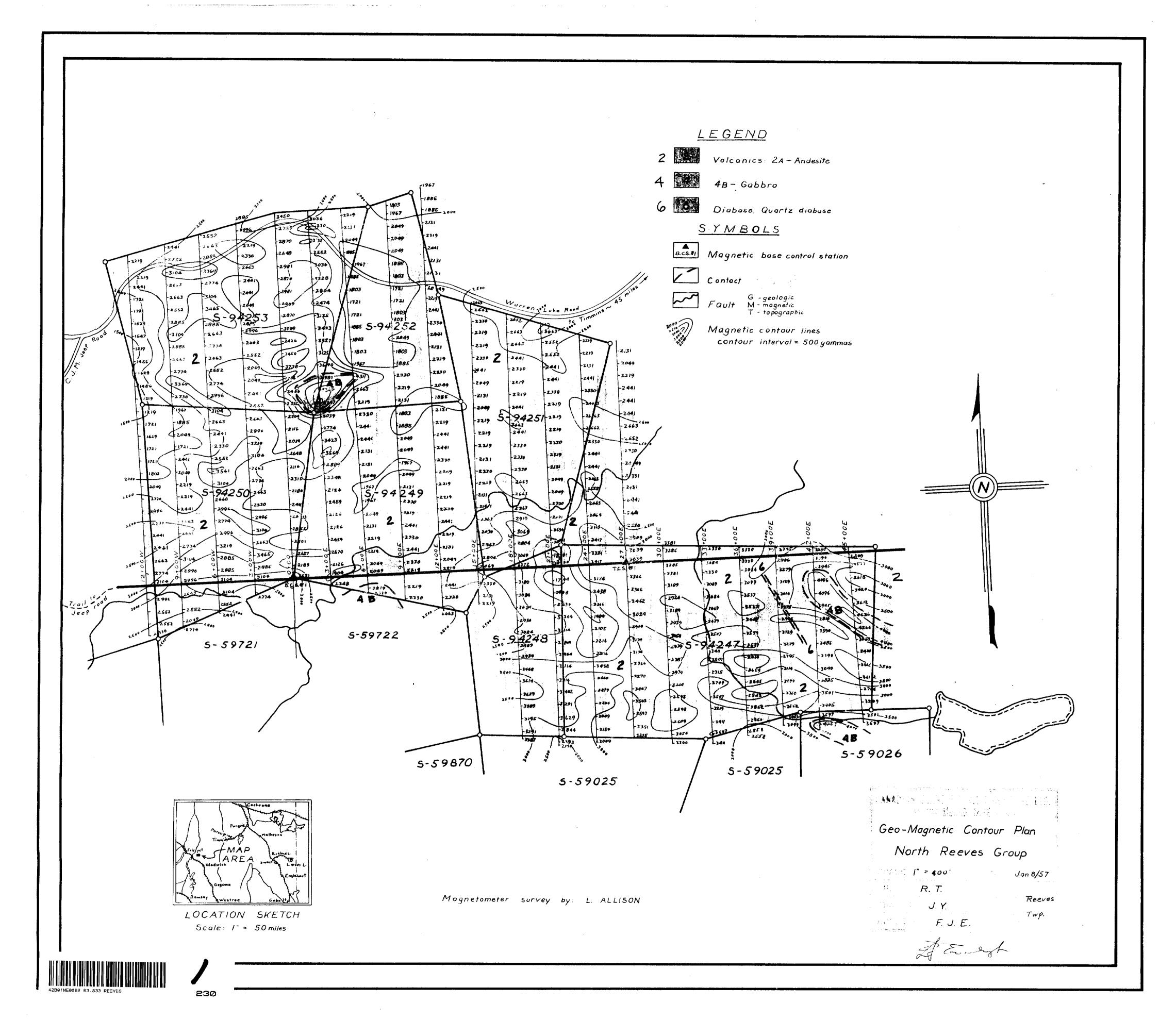
This area was mapped by E. W. Todd for the Ontario Department of Mines and the results were published in Volume XXXIII, Part 6, dated 1924. Map No. 333 entitled Groundhog River Area on a scale of 1 inch equals 12 miles, assomptanies this report.

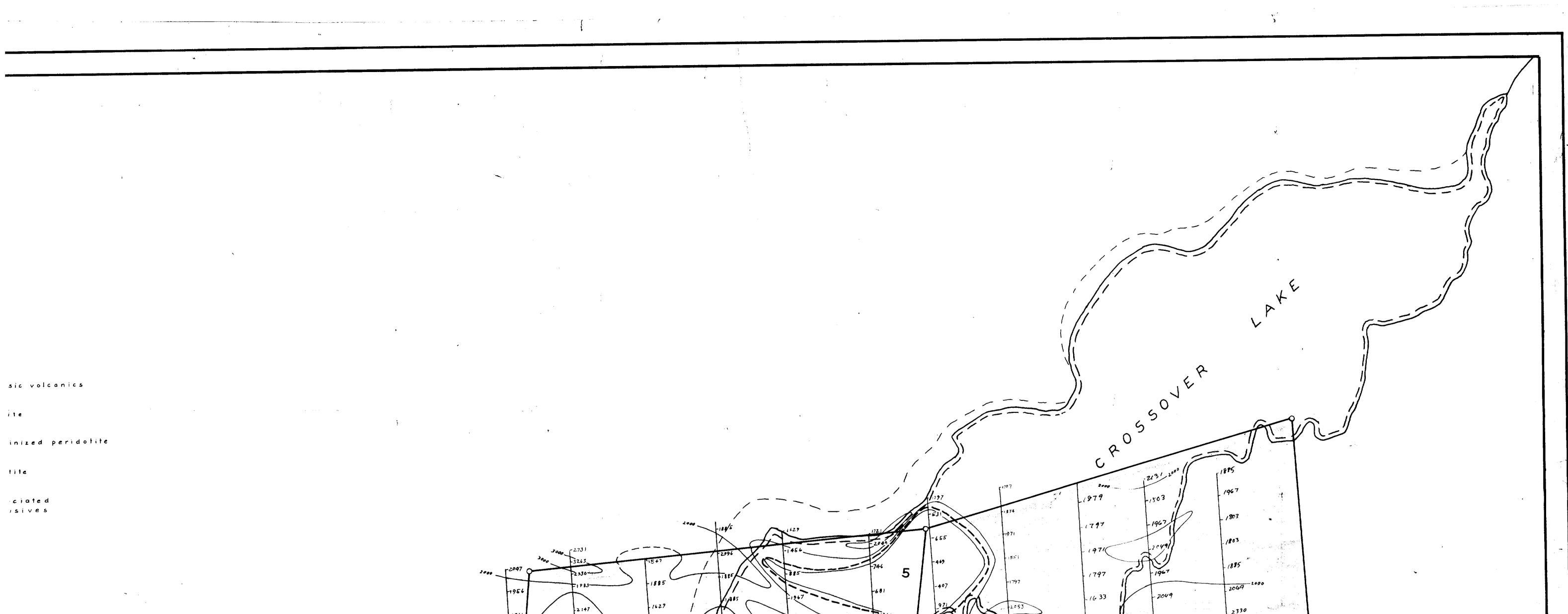
- 2 -











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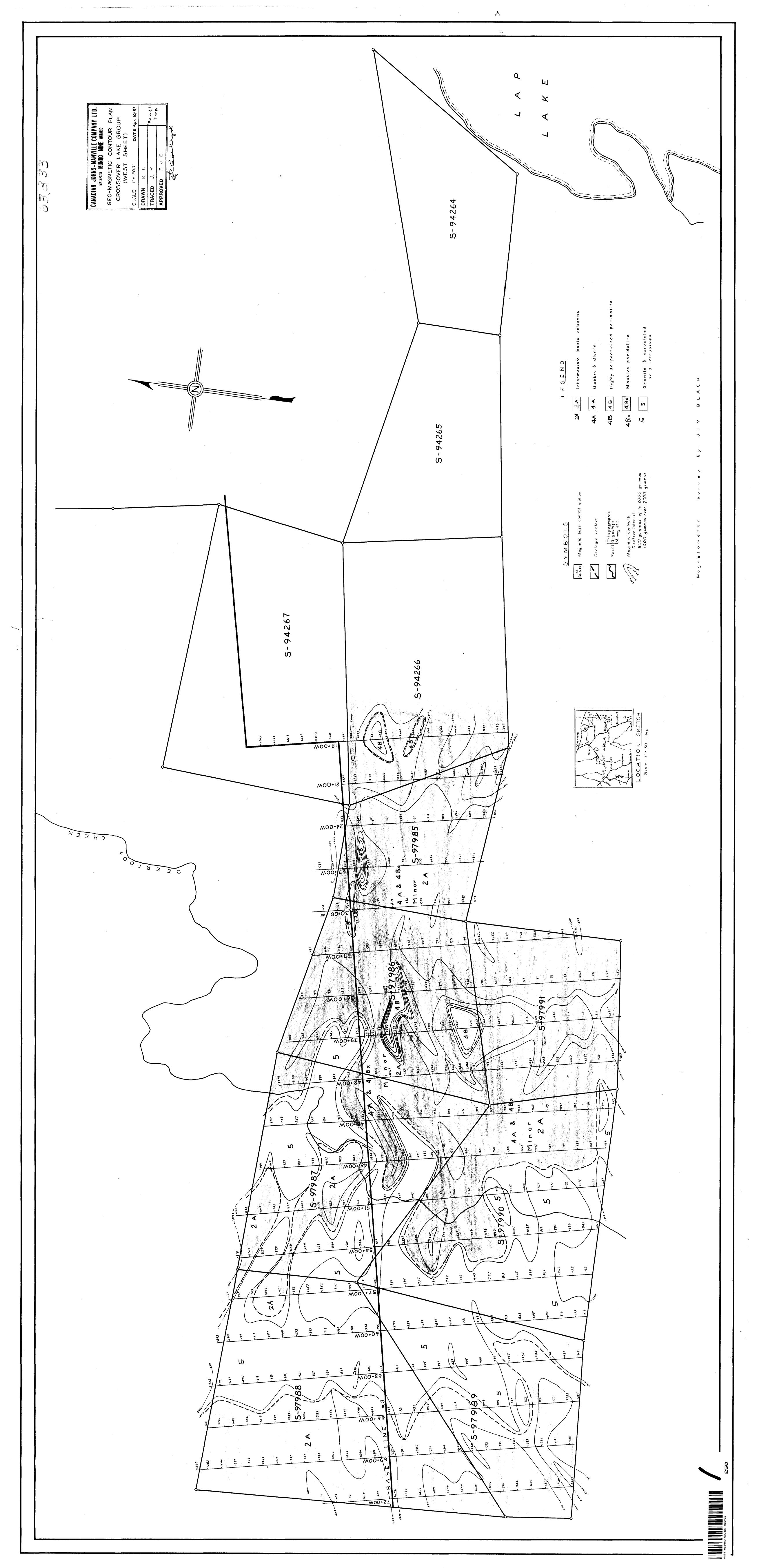
1-2663 5-94255 1885 2552 -1629 2463 -2996 5-9425 2330 2330 -1885 -5 Sec. Company -1803 4 A & 4 B X 2441 -2049 1721 1,551 -1629 -1721 A CALL CONTRACT 2219 1552 Minor 2A 1721 1551 2219 Same Martin -2219 1217 172 -1721 1885-2000 -2885 -1803 5 2131 2000 -2219 -1303 885 .... 4( B 13594 2394 1585 4520 2552 -2219 1551 456 803 Linder and hand and set of a long -2441 +3817 2 24 -1706 a the second 2049 1885 2321 1100 -2330 2131 1706 629 4 A & 4 B × 1803 -1983 2774 2049 5-94257 1879 -204 2049 Min 0 r 2 A 2663 2303 1803 1629 - 2555 - 2383 5-94256-1797 -1867 -3065 2049 2 /6-33% Car -2053  $\sim$ 7878 2047\_ -2736 z 385 2330 - 1719 -1297 7032 4B 6786,000 () 2.385 2219 -4 +311 2131 3119 2802 1633 2949 465 S-94258 2555 - 2049 2219 & 4B 2321 - 1631 4 A 4A& 4Bx 2219 2485 1381 2131 Minor 2A - 2663 -1885 Minor 2A 4B 1967

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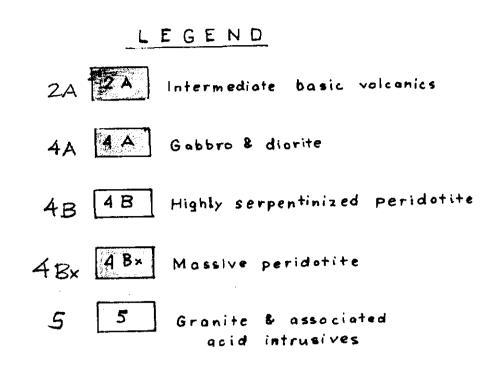
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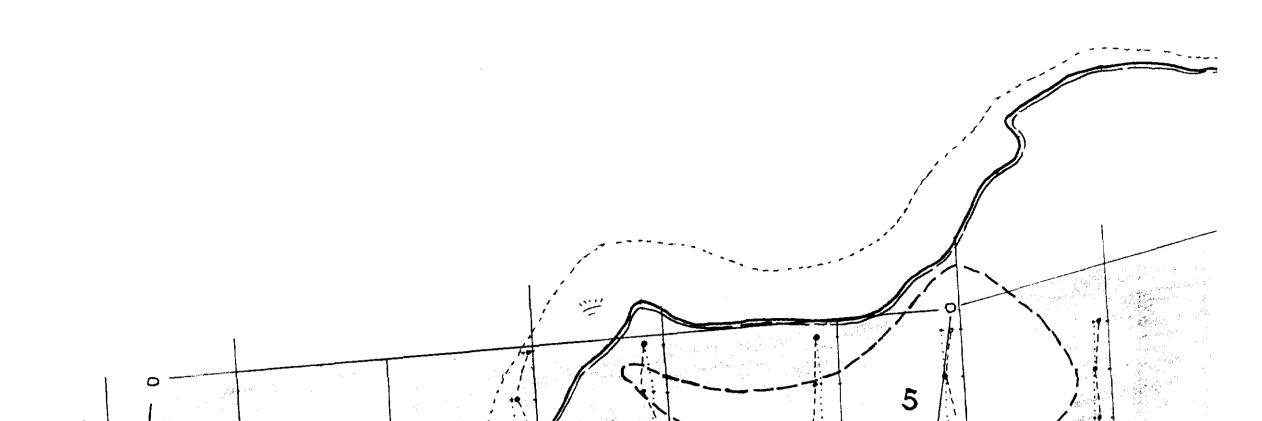
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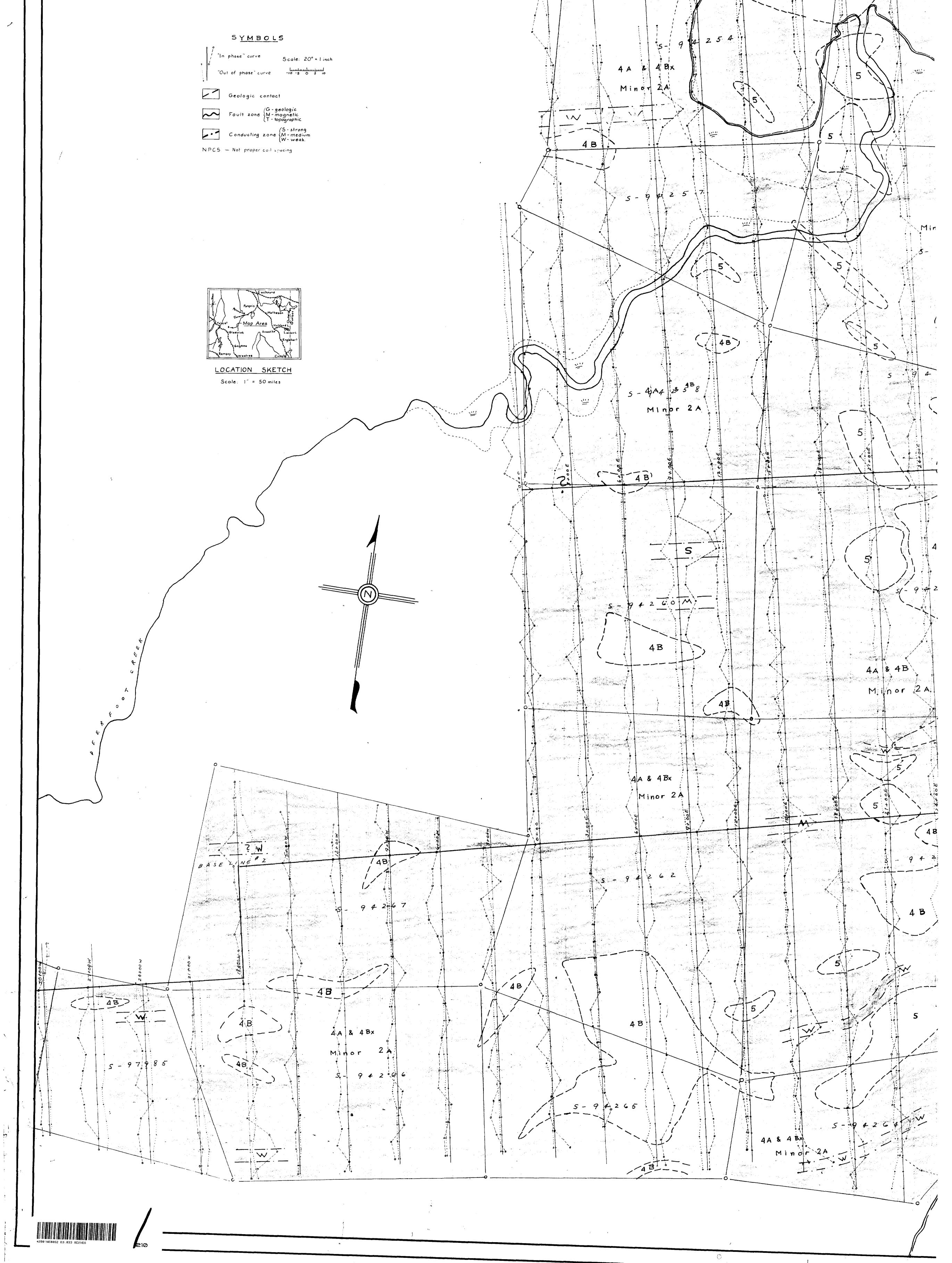




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LEGEND

2 A Intermediate to basic volcanics

4 A Gabbro & dioríte

4 B Highly serpentinized peridotite

4.8× Massive peridotite

5 Granite & associated acidic intrusives

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