



42D14NE0079 2.5394 LOWER AGUASABON LAKE

010

REPORT ON THE QUESTOR AIRBORNE MAGNETOMETER SURVEY

BIG DUCK LAKE AREA

SCHREIBER AREA, NORTHWESTERN ONTARIO

NTS 42 D AND E

FEBRUARY 1, 1983

P. W. A. SEVERIN
CORPORATION FALCONBRIDGE COPPER
THUNDER BAY, ONTARIO.

REPORT ON THE QUESTOR AIRBORNE MAGNETOMETER SURVEY

BIG DUCK LAKE AREA

.NTS .42-D and E

INTRODUCTION:

An airborne Electromagnetic and Magnetometer Survey was carried out by Questor Surveys Ltd., during July, 1982 over five (5) separate blocks of contiguous claims held by Corporation Falconbridge Copper. A technical report by S. Wong, Geophysicist for Questor Surveys Limited is included as Appendix I.

PREVIOUS WORK:

Gold, associated with quartz-carbonate veins carrying variable amounts of Cp-Sph-Py-Po-Mo and W, was first discovered in the Big Duck Lake area in 1906, fourteen years after the discovery of the Zenith sphalerite deposit which is located at Kenabic Lake situated approximately 8 km to the WSW. Sporadic work by a variety of individuals during the period 1907 - 1953 suggested that the metal values in the Big Duck Lake area have an erratic distribution and interest subsequently declined over the years.

The discovery of the Geco Cu-Zn-Ag orebody in 1954 revived interest in the Big Duck Lake area but nothing of economic significance has been discovered in the immediate area until 1982.

The Zenith dposit was developed by Zenmac Exploration during the period 1966 - 1970 and produced approximately 181,000 tons of 16.5% zinc.

The discovery of the Winston massive sulphide deposit by Corporation Falconbridge Copper in 1982 has triggered intensive staking in the region and regional exploration in the Big Duck Lake area has once again rejuvenated.

A description of the geology of the area is given in OGS Report No.27, "Mineral Deposits of the Big Duck Lake Area" by E. G. Pye that was published in 1964.

...../

SURVEY RESULTS:

Five separate claim blocks held by Corporation Falconbridge Copper were covered by the airborne survey and are shown on the appended maps. Claim blocks 1, 2, 4 and 5 have relatively low magnetic intensities ranging from 59570 to 59960 gammas.

Claim block 3 which covers a large area from Big Duck Lake in the east to Winston Lake in the west is underlain by rocks with a variety of magnetic intensities that vary from 59750 gammas to 61000 gammas. The relative magnetic high (60000 to 60500 gammas) located in the extreme western portion of claim block 3 appears to coincide with a narrow gabbroic sill that is shown as Unit 4 on Pye's geological map. A build-up in magnetic intensity to 61000 gammas in the northern part of the western sector of the claim block may be related in part to the quartz porphyritic unit that is shown on Pye's map as underlying Big Duck Lake.

CONCLUSIONS:

The magnetic relief of the rocks in the survey area varies from 59570 gammas to 61000 gammas. Variations appear to reflect changes in rock type with a gabbroic sill and possibly a quartz feldspar porphyry having a higher magnetic signature than the surrounding mafic volcanic rock and associated sediments.

FEBRUARY 1, 1983

Paul Severin

P. W. A. SEVERIN


THUNDER BAY, ONTARIO.

STATEMENT OF QUALIFICATIONS

I, Paul W. A. Severin hereby certify that:

1. I am an Exploration Geologist residing at 6 Hind Avenue, Winnipeg, Manitoba (temporary address 2600 Arthur Street, Thunder Bay, Ontario). I have practised my profession since graduation.
2. I earned an Honours BSc Degree in Geology from Laurentian University in 1970.
3. I am a member of the C. I. M. M. and Fellow of the Geological Association of Canada.

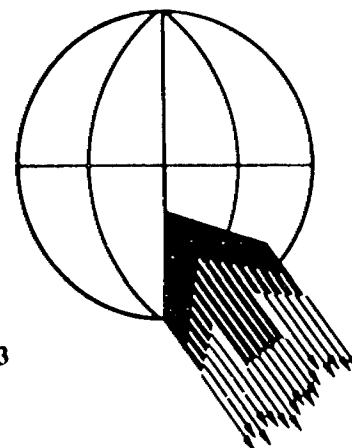
FEBRUARY 1, 1983.



PAUL W. A. SEVERIN
THUNDER BAY, ONTARIO.

APPENDIX I

AIRBORNE ELECTROMAGNETIC SURVEY
CORPORATION FALCONBRIDGE COPPER
BIG DUCK LAKE AREA, ONTARIO
PROJECT #24038 NOVEMBER, 1982



INTRODUCTION

This report contains the airborne electromagnetic (INPUT) results and interpretation for project number 24038 which was commissioned by Corporation Falconbridge Copper. The project consists of two survey blocks, Block A and B, both situated 24 kilometres north of Schreiber in the Port Arthur Mining Division, District of Thunder Bay, Ontario. An outline map of the survey area which was taken from National Topographic Series, sheet numbers 42D and 42E is provided at the end of the appendix.

QUESTOR SURVEYS LIMITED performed the airborne survey utilizing one of the twin-engined turbine Short Skyvan SH-7 aircraft with Canadian registration C-FQSL. This aircraft has been equipped with the latest MARK VI INPUT System. In addition, nose and tail booms have been specially modified to support a large transmitter loop which encircles the aircraft. Also, a long range cabin fuel tank has been added to permit eight hours of continuous flying.

The survey was flown on July 18th and 19th, 1982, based at Terrace Bay, Ontario. A total of 1032 line kilometres were flown of which 810 kilometres is for Block A and 222 kilometres is for Block B.

The principle product of the aeromagnetic survey is the total field magnetic contour map for Block A and B. This was primarily used to aid in the interpretation and recommendations of the electromagnetic (INPUT) data.

The field personnel consisted of:

Pilot	-	G. Robertson
Navigator	-	L. Jewers
Operator	-	K. Graham
Engineer	-	M. Kohlruss
Data Technician	-	B. Droine

SURVEY PROCEDURE

During the survey, the aircraft maintained a terrain clearance as close to 122 metres as possible, with the E.M. bird at approximately 48 metres above the ground. In areas of substantial topographic relief, the aircraft height exceeds 122 metres for safety reasons.

A normal S-pattern flight path using approximately half kilometre turns was used and a flight line spacing of 200 metres was established for Block A and Block B. These were flown in an approximate direction of N 15° W for Block A, and N 110° W for Block B, in order to optimize the electromagnetic coupling between the receiver and the conductive anomalies.

In addition to the flight lines, control lines for Block A and B were flown perpendicular to the flight lines to be used for computer levelling of the magnetic data. In addition, a ground magnetic base station was monitored daily for severe diurnal variations (magnetic storms).

The appropriate details of each flight are logged on the flight logs by the operator-technician. The logs include the flight times, line numbers and fiducial numbers as well as a record of equipment irregularities and atmospheric conditions. One can refer to these in order to relate the flight path film to the geophysical data.

MAP COMPILATION

The survey area is comprised of 3 photo base mosaics prepared at QUESTOR from uncontrolled mosaics which were constructed from 1974, 1:15,125 Ontario Provincial Photomaps produced by the Ministry of Natural Resources. The 3 photo base mosaics are at a scale of 1:15,840. Navigational and flight path recovery maps were produced from these mosaics.

The navigational maps were used for the direct recovery of the flight path from the 35mm strip film negatives. This film is graduated into fiducials which are used in annotating points of similar topographic features. They are accurately plotted using at least one point per major fiducial. Major fiducials are approximately 1270 metres apart.

The navigational maps cannot be employed for computer digitizing of the flight path because of shrinkage of the paper base. Therefore, Cronoflex maps with topographic details were utilized to trace the recovery from the navigation maps and for digitizing.

The Cronoflex with the flight path information has been combined photographically with the appropriate survey results to yield 3 INPUT maps and 3 magnetic contour mylars for Blocks A and B at a scale of 1:15,840. White prints of these are provided in the map pockets of this report.

GENERAL GEOLOGY

Available geology shows the survey area to be underlain by metavolcanics and metasediments of Precambrian Age.

The oldest formation in this area is a belt of lower metasediments that strikes about N 20° W east of Winston Lake. These lower metasediments consist mostly of fine grained to medium grained biotite-quartz-feldspar gneiss with some garnet-biotite-quartz-schist and a little hornblende schist and hornblende-quartz-feldspar gneiss.

East of the lower metasediments, a belt of metavolcanics up to 5 kilometres wide extends east-west across the central part of the survey area. These metavolcanics consist of hornblende schist, pillow lava, metadiabase, volcanic breccia and tuff, and agglomerate. Along the north side of the metavolcanics is a belt of upper metasediments consisting principally of basic tuff and biotite-quartz-feldspar gneiss. These upper metasediments are similar to the lower metasediments east of Winston Lake. Garnet is found frequently where the upper metasediments are in contact with granitic rock. Magnetite which is disseminated in garnetiferous

gneiss can be traced at the southern part of East Shy Lake for over 2 miles. Exposures of biotite-poor gneiss with abundant pyrite are found about the north ends of Sulphur and Cable Lakes.

On the south and southwest, the belt of metavolcanics is bordered by a large sill-like basic rock unit classified as diorite, gabbro and amphibolite. This rock is principally made up of various fractions of amphibole and plagioclase feldspar with some epidote, chlorite and quartz.

The lower metasediments, the upper metasediments, and the diorite-gabbro-amphibolite unit are bordered on the north, west and southeast by fined-grained to coarse-grained granitic rock.

Exposures of quartz-porphyry trending in a east-west direction, are found in the vicinity of Big Duck Lake, Little Duck Lake and Cable Lake. In a few places, where the quartz-porphyry contacts with metavolcanics, the porphyry has been intensely sheared and altered to quartz-sericite-schist.

Three sets of faulting in the area have been reported: northwest, northeast and east-northeast. However, these three fault systems appear to terminate against a strong fault extending west-northwest from the south of Big Duck Lake, through the Little Duck Lake across the entire area.

In the eastern to central part of the area, the rocks strike rather uniformly east-northeast. West of Little Duck Lake, the rocks strike in a more northwesterly direction. Between Winston Lake and Coffee Lake, the rocks strike in a north-northwest direction. It was suggested that the rocks in this area form the south flank of a major syncline.

A wide variety of mineral deposits: gold, silver, zinc, lead, copper and even molybdenum and tungsten have been reported in the Big Duck Lake area. The deposits are classified as massive sulphide deposits, disseminated sulphide deposits and vein deposits.

Massive sulphide deposits are found only in the Zenmac Mine where sphalerite accompanied by a little pyrite, pyrrhotite and chalcopyrite occurs as irregular-shaped bodies, lenses and fracture-fillings in diorite-gabbro.

Disseminated sulphide deposits are found in sheared zones principally as pyrite and pyrrhotite with a little chalcopyrite in some cases.

The above geological description has been obtained from Ontario Department of Mines Geological Report No. 27, Mineral Deposits of the Big Duck Lake Area by P.E. Pye (1964).

INTERPRETATION

The most common types of bedrock conductors intercepted by the INPUT airborne system are those of massive sulphides, massive magnetite and graphite. In special circumstances, they produce strong and narrow INPUT responses of moderate to high conductivity proportional to the amount of sulphides, magnetite and/or graphite present. This is not always the case, since some sulphide deposits are known to produce poorer responses which may be attributed in part by the following circumstances:

1. the conductor is sub horizontal;
2. the mineralogy does not lend itself to be detected by electromagnetic methods;
3. the conductor is not massive but vein-like;
4. there is a lack of continuity of individual veinlets;
5. the conductor width is small;

It should be noted that an INPUT response can also result over fault or shear zones containing conductive material. This material could be clay, saline or mineral alteration. Distinguishing these responses from genuine conductors, using only airborne data, is virtually impossible.

In areas of thin or nonconductive overburden, maximum penetration of the INPUT system is likely and the masking effect of any underlying bedrock conductor would be minimal. In this instance, weaker responses in the order of two and three channels originating from the bedrock, would be indicative.

NOTE: Pages 8, 9 and 10 which pertain to Electromagnetic Survey data are not included herewith.

February 1, 1983



P. W. A. SEVERIN

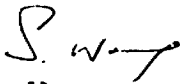
RECOMMENDATIONS

There are many instances of conductive bodies in the survey area. According to the Ontario Mineral Potential Map, Map P. 1520 and P. 1527, Scale 1:250,000 of District of Thunder Bay and Cochrane, by Springer, J. (1978) of Ontario Geological Survey, Minerals Deposits Ser., this area is given a second rating with high mineral potential in their rating scheme. Therefore, all conductors delineated in both Block A and B have at least a medium priority.

At present, it is suggested that preliminary work be carried out for Conductors 15, 16, 4 and 1 of Block A, as well as, Conductor 2 of Block B. However, the project geologist may wish to select targets on the basis of geological, geophysical and geochemical information not available to the writer.

Respectfully submitted,

QUESTOR SURVEYS LIMITED


S. Wong,
Geophysicist.

APPENDIX

EQUIPMENT

The aircraft is equipped with a Mark VI INPUT (R) airborne E.M. system and Sonotek P.M.H. 5010 Proton Magnetometer. Radar altimeters are used for vertical control. The outputs of these instruments together with fiducial timing marks are recorded by means of galvanometer type recorders using light sensitive paper. Thirty-five millimeter continuous strip cameras are used to record the actual flight path.

(I) BARRINGER/QUESTOR MARK VI INPUT (R) SYSTEM

The Induced Pulse Transient (INPUT) system is particularly well suited to the problems of overburden penetration. Currents are induced into the ground by means of a pulsed primary electromagnetic field which is generated in a transmitting loop around the aircraft. By using half sine wave current pulses and a loop of large turns-area, the high output power needed for deep penetration is achieved.

The induced current in a conductor produces a secondary electromagnetic field which is detected and measured after the termination of each primary pulse. Detection is accomplished by means of a receiving coil towed behind the aircraft on four hundred feet of cable,

(ii)

and the received signal is processed and recorded by equipment in the aircraft. Since the measurements are in the time domain rather than the frequency domain common to continuous wave systems, interference effects of the primary transmitted field are eliminated. The secondary field is in the form of a decaying voltage transient originating in time at the termination of the transmitted pulse. The amplitude of the transient is, of course, proportional to the amount of current induced into the conductor and, in turn, this current is proportional to the dimensions, the conductivity and the depth beneath the aircraft.

The rate of decay of the transient is inversely proportional to conductivity. By sampling the decay curve at six different time intervals, and recording the amplitude of each sample, an estimate of the relative conductivity can be obtained. By this means, it is possible to discriminate between the effects due to conductive near-surface materials such as swamps and lake bottom silts, and those due to genuine bedrock sources. The transients due to strong conductors such as sulphides exhibit long decay curves and are therefore commonly recorded on all six channels. Sheet-like surface materials, on the other hand, have short decay curves and will normally only show a response in the first two or three channels.

(iii)

The samples, or gates, are positioned at 334, 498, 744, 1072, 1482 and 1974 micro-seconds after the cessation of the pulse. The widths of the gates are 164, 164, 328, 328, 492, and 492 micro-seconds respectively.

For homogeneous conditions, the transient decay will be exponential and the time constant of decay is equal to the time difference at two successive sampling points divided by the log ratio of the amplitudes at these points.

(II) SONOTEK P.M.H. 5010 PROTON MAGNETOMETER

The magnetometers which measure the total magnetic field have a sensitivity of 1 gamma and a range from 20,000 gammas to 100,000 gammas.

Because of the high intensity field produced by the INPUT transmitter, the magnetometer results are recorded on a time-sharing basis. The magnetometer head is energized while the transmitter is on, but the read-out is obtained during a short period when the transmitter is off. The precession frequency is being recorded and converted to gammas during the 0.2 second interval when there is no power in the transmitter loop.

For this survey, a lag factor has been applied to the data. Magnetic data recorded on the analogue records at fiducial 10.00 for example would be plotted at fiducial 9.95 on the mosaics.

DATA PRESENTATION

The symbols used to designate the anomalies are shown in the legend on each map sheet, and the anomalies on each line are lettered in alphabetical order in the direction of flight. Their locations are plotted with reference to the fiducial numbers on the analog record.

A sample record is included to indicate the method used for correcting the position of the E.M. Bird and to identify the parameters that are recorded.

All the anomaly locations, magnetic correlations, conductivity-thickness values and the amplitudes of channel number 2 are listed on the data sheets accompanying the final maps.

GENERAL INTERPRETATION

The INPUT system will respond to conductive overburden and near-surface horizontal conducting layers in addition to bedrock conductors. Differentiation is based on the rate of transient decay, magnetic correlation and the anomaly shape together with the conductor pattern and topography.

Power lines sometimes produce spurious anomalies but these can be identified by reference to the monitor channel.

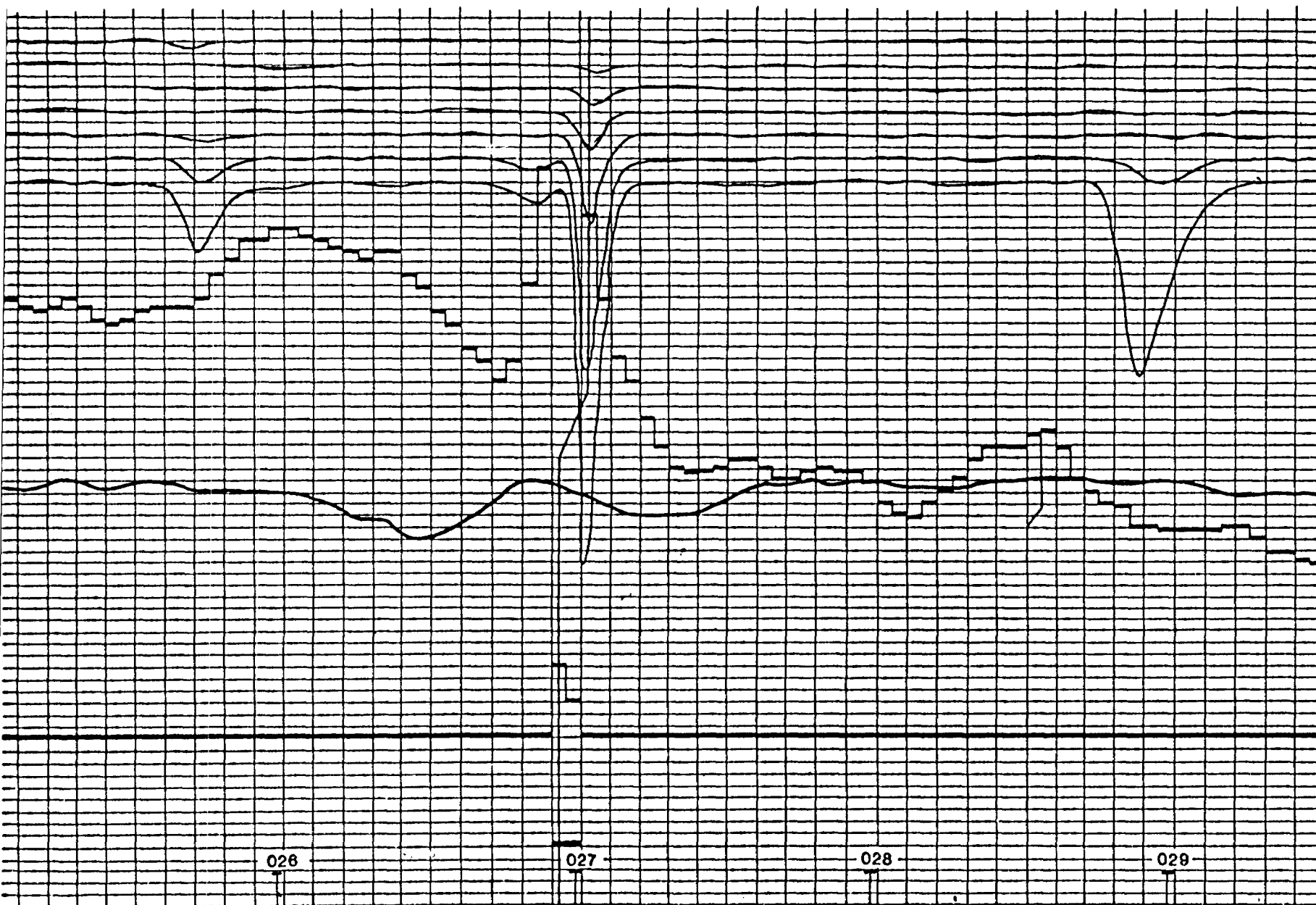
Railroad and pipeline responses are recognized by studying the film strips.

Graphite or carbonaceous material exhibits a wide range of conductivity. When long conductors without magnetic correlation are located on or parallel to known faults or photographic linears, graphite is most likely the cause.

Contact zones can often be predicted when anomaly trends coincide with the lines of maximum gradient along a flanking magnetic anomaly. It is unfortunate that graphite can also occur as relatively short conductors and produce attractive looking anomalies. With no other information than the airborne results, these must be examined on the ground.

Serpentinized peridotites often produce anomalies with a character that is fairly easy to recognize. The conductivity which is probably caused in part by magnetite, is fairly low so that the anomalies often have fairly large response on channel #1; they decay rapidly, and they have strong magnetic correlation. INPUT E.M. anomalies over massive magnetites show a relationship to the total Fe content. Below 25 - 30%, very little or no response at all is obtained, but as the percentage increases the anomalies become quite strong with a characteristic rate of decay which is usually greater than that produced by massive sulphides.

Commercial sulphide ore bodies are rare, and those that respond to airborne survey methods usually have medium to high conductivity. Limited lateral dimensions are to be expected and many have magnetic correlation caused by magnetite or pyrrhotite. Provided that the ore bodies do not occur within formational conductive zones as mentioned above, the anomalies caused by them will usually be recognized on an E. M. map as priority targets.



Power Line Monitor

- 6
- 5
- 4
- 3
- 2
- 1

INPUT[®] EM
channels

E M
Amplitude
600 p.p.m.

— 92 m.
Radio
— 120 m.
Altimeter
— 154 m.

Magnetometer
Fine Scale
20 Gammas

Magnetometer
Coarse Scale
1000 Gammas

026

027

028

029

Fiducial Timing Mark

Anomaly Location

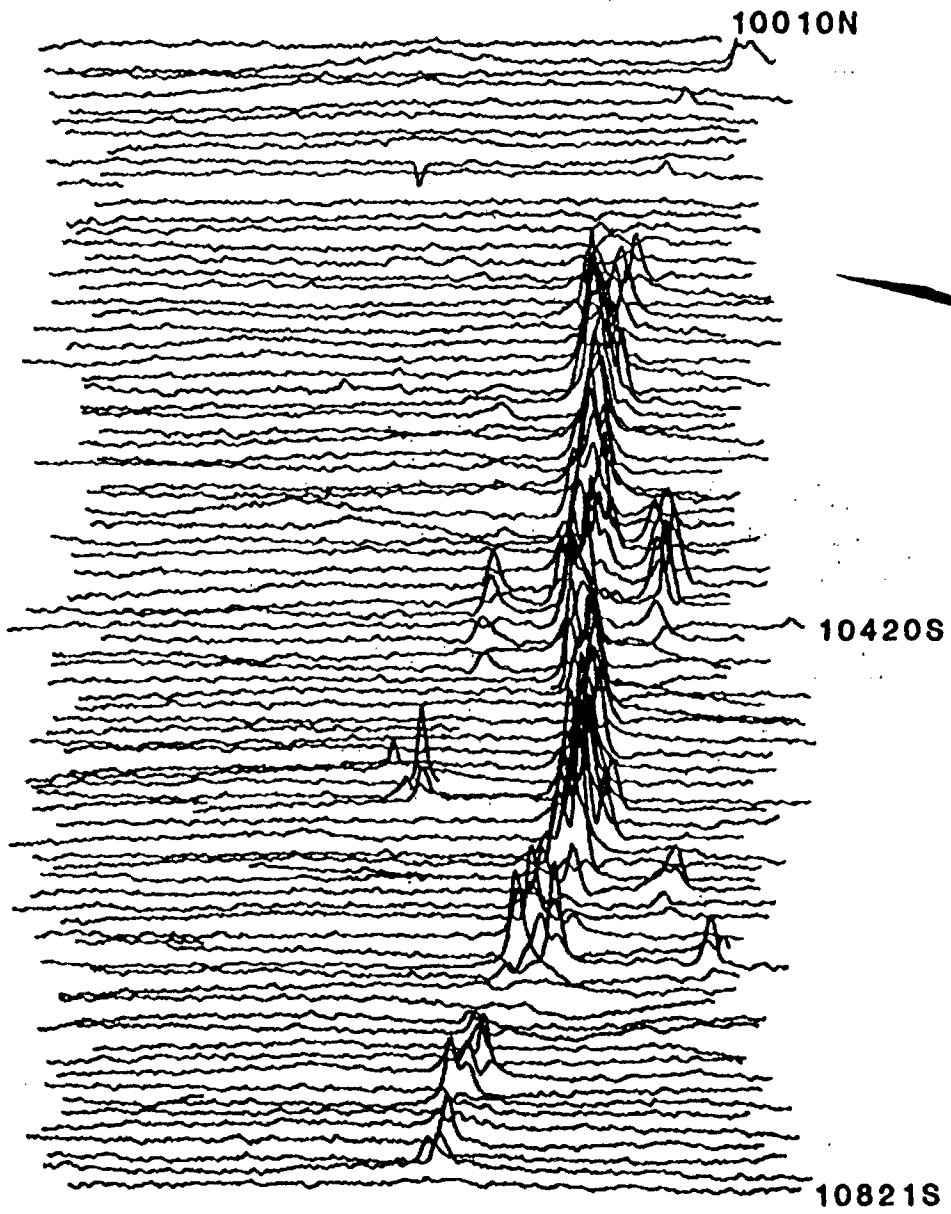
Mag Location

026.93

026.50

Representative INPUT[®], Magnetometer and Altimeter Recording

24038
Block A
Stacked Input® E.M. Profile Map of Channel 1 Amplitude
Scale 1: 118668

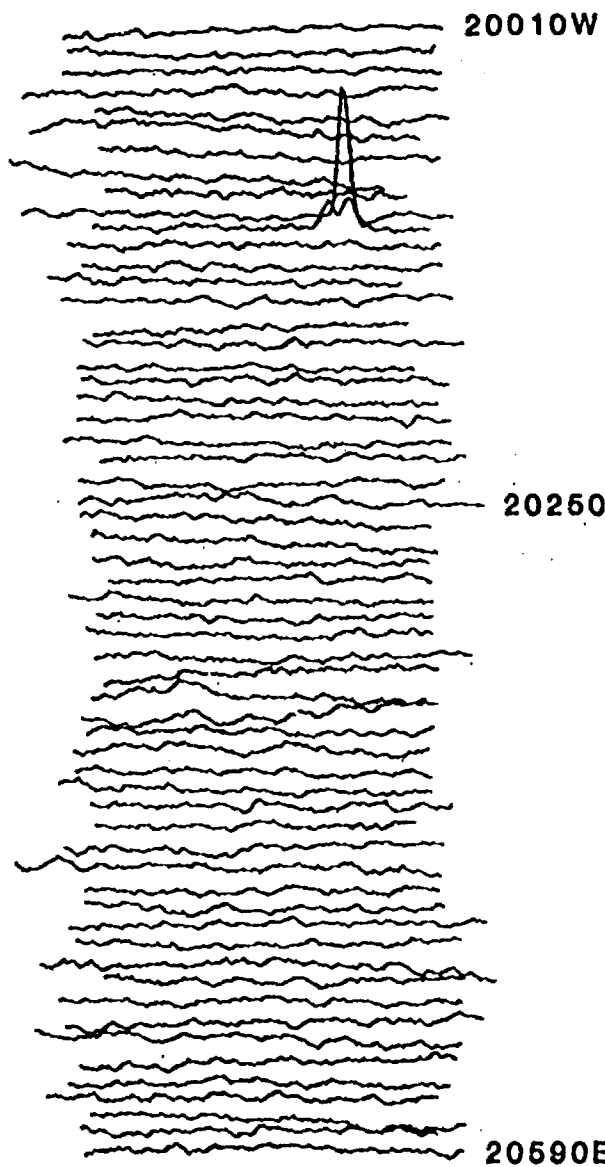


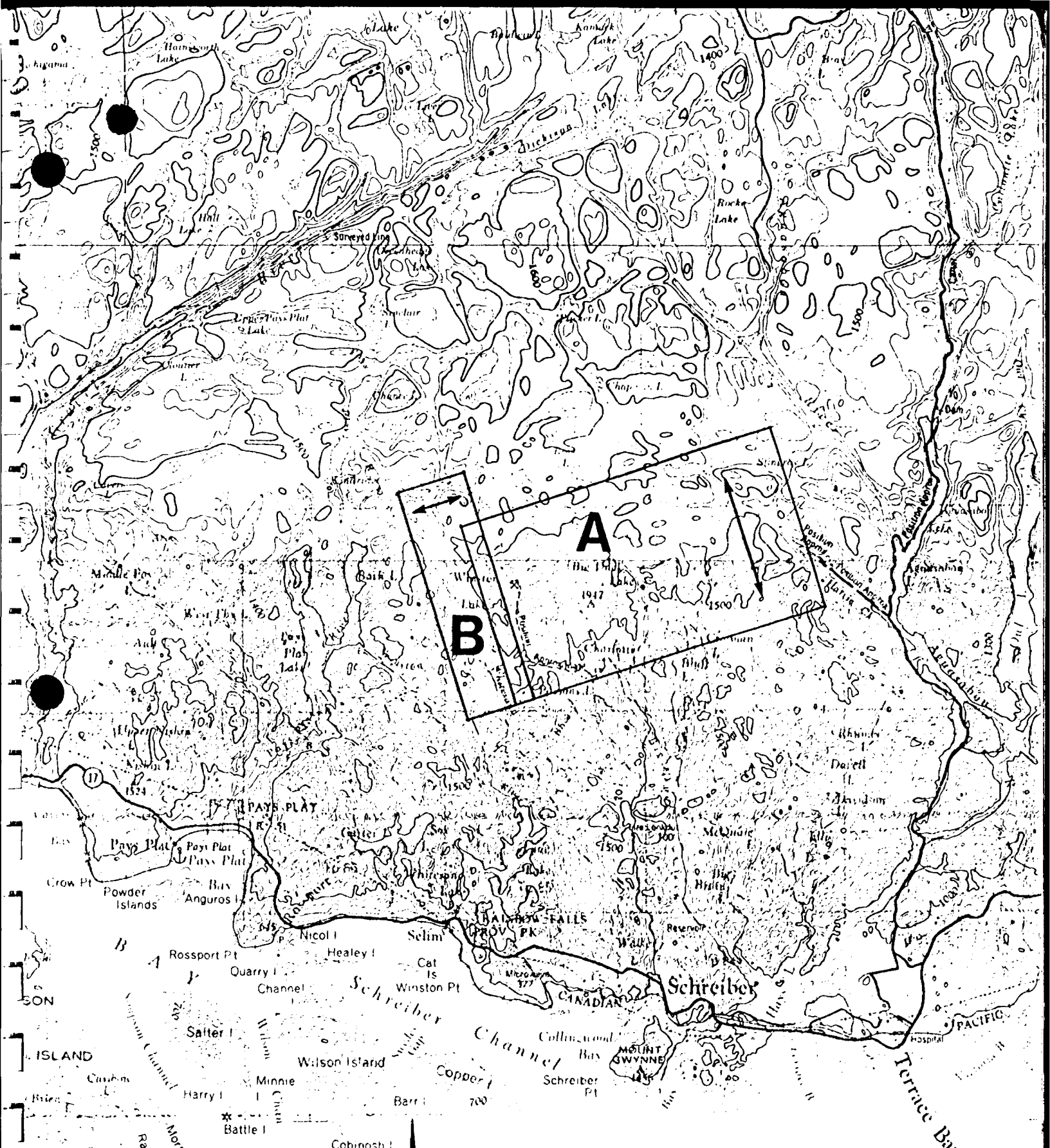
24038

Block B

Stacked Input® E.M. Profile Map of Channel 1 Amplitude

Scale 1: 91208





PROJECT: #24038

MAP NO: N.T.S. 42D Schreiber,
42E Longlac,
Thunder Bay District,
Ontario.

SCALE: 1:250,000

Mortimer
Islands
E 1025
Edmond
NDS Patterson



42014NE0079 2.5394 LOWER AGUASABON LAKE

900

20

2.5394

1983 09 19

Mrs. Audrey Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

RE: Airborne (Magnetometer) Survey on mining claims
TB 386761 et al in the Area of Big Duck Lake

The Airborne (Magnetometer) Survey assessment work credits
as listed with my Notice of Intent dated August 24, 1983,
have been approved as of the above date.

Please inform the recorded holder of these mining claims
and so indicate on your records.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

R. P&chette:mc

Encl.

cc: Corporation Falconbridge Copper
P.O. Box 40
Commerce Court West
Toronto, Ontario
M5L 1B4

cc: Resident Geologist
Thunder Bay, Ontario



Recorded Holder **CORPORATION FALCONBRIDGE COPPER**

Township or Area **BIG DUCK LAKE AREA**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	TB 386761 to 70 inclusive
Electromagnetic _____ days	386777 to 808 inclusive
Magnetometer _____ 25 _____ days	519245 to 48 inclusive
Radiometric _____ days	535914 to 19 inclusive
Induced polarization _____ days	557750-51
Other _____ days	645756-57
Section 77 (19) See "Mining Claims Assessed" column	646406 to 90 inclusive
Geological _____ days	646569 to 76 inclusive
Geochemical _____ days	646591
Man days <input type="checkbox"/> Airborne <input checked="" type="checkbox"/>	646674
Special provision <input checked="" type="checkbox"/> Ground <input type="checkbox"/>	654629
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	655274 to 79 inclusive
<input checked="" type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	643754 to 71 inclusive
	643779 to 82 inclusive
	643784 to 88 inclusive
	643804 to 12 inclusive
	645728-29
	645737 to 49 inclusive
	645761 to 87 inclusive
	646505 to 19 inclusive
	646583 to 90 inclusive
	646715 to 23 inclusive
	646727 to 48 inclusive
	653958 to 79 inclusive
	653998 to 4029 inclusive
	654037
	654415 to 22 inclusive
	654564 to 72 inclusive
	654627-28

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed



Ministry of
Natural
Resources

Sept 15/83

Your file: 20

Our file: 2.5394

1983 08 24

Mrs. Audrey Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

fin R. Pichette:mc

Encls:

cc: Corporation Falconbridge Copper
P.O. Box 40
Commerce Court West
Toronto, Ontario
M5L 1B4

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
845 Toronto, Ontario



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports
1983 08 24

2.5394

#20

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

File 386761

- Instructions: - Please type or print.
 - If number of mining claims traversed exceeds space on this form, attach a list.
 Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
 - Do not use shaded areas below.

#20 *Land Management* Mining Act

Type of Survey(s) **AIRBORNE MAGNETOMETER** Township or Area **G-599, 606**
 Claim Holder(s) **CORPORATION FALCONBRIDGE COPPER** **BIG DUCK LAKE AREA G-609, 617**
 Address **P. O. BOX 40, COMMERCE COURT WEST, TORONTO, ONTARIO M5L 1B4** Prospector's Licence No. **T-556**
 Survey Company **QUESTOR SURVEYS LIMITED, MISSISSAUGA, ONT** Date of Survey (from & to) **18 07 1982 19 07 1982** Total Miles of line Cut **362 Line Km.**
 Name and Address of Author (of Geo-Technical report) **P.W.A. SEVERIN, c/o CORPORATION FALCONBRIDGE COPPER, 2606 VICTORIA AVE. E., THUNDER BAY, ONT.** P7C 1E7

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
RECEIVED Note: Special provisions credits do not apply to Airborne Surveys. FEB 11 1983	- Electromagnetic	
	- Magnetometer	40
	- Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
TB	386761	20 40	TB	519246	40
	386762	20 40		519247	40
	386763	20 40		519248	40
	386764	40		& 535914	40
	386765	40		535915	40
	386766	20 40		535916	40
	386767	20 40		535917	40
	386768	20 40		535918	40
	386769	20 40		535919	40
	386770	20 40		& 557750	40
&	386777	20 40		557751	40
	386778	20 40		& 645756	40
	386779	20 40		645757	40
	386800	20 40		& 646406	40
	386801	20 40		646407	40
	386802	20 40		646408	40
	386803	20 40		646409	40
	386804	20 40		646410	40
	386805	20 40		646411	40
	386806	40		646412	40
	386807	40		646413	40
	386808	40		646414	40
&	519245	40		646415	40

Type of Work Performed *Max. 80 deep reached.*

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures ÷ 15 = Total Days Credits

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

Date **FEBRUARY 1, 1983** Recorded Holder or Agent (Signature) *Paul Severin*

See also attached lists for additional claims

Total number of mining claims covered by report of work **364**

For Office Use Only

Total Days Cr. Recorded *14,560* Date Recorded *Feb. 2/83* Mining Recorder *Audrey M. Hayes*
 Date Approved as Recorded _____ Branch Director

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 **PAUL W. A. SEVERIN, c/o CORPORATION FALCONBRIDGE COPPER, 2606 VICTORIA AVENUE, EAST, THUNDER BAY, ONTARIO P7C 1E7**

Date Certified **FEBRUARY 1, 1983** Certified by (Signature) *Paul Severin*

February 1st, 1983

CORPORATION FALCONBRIDGE COPPER

Licence T-556

P. O. BOX 40,

COMMERCE COURT WEST,

TORONTO, ONTARIO. M5L 1B4

Additional Claims - Airborne Magnetometer Survey - Questor Surveys Limited

<u>DAYS</u>		<u>DAYS</u>		<u>DAYS</u>		<u>DAYS</u>	
TB 646416	40	TB 646420	40	TB 646451	40	TB 646483	40
646417	40	646421	40	646452	40	646484	40
646418	40	646422	40	646453	40	646485	40
646419	40	646423	40	646454	40	646486	40
		646424	40	646455	40	646487	40
		646425	40	646456	40	646488	40
		646426	40	646457	40	646489	40
		646427	40	646458	40	646490	40
		646428	40	646459	40 and		
		646429	40	646460	40	TB 646569	40
		646430	40	646461	40	646570	40
		646431	40	646462	40	646571	40
		646432	40	646463	40	646572	40
		646433	40	646464	40	646573	40
		646434	40	646465	40	646574	40
		646435	40	646466	40	646575	40
		646436	40	646467	40	646576	40
		646437	40	646468	40 and		
		646438	40	646469	40	TB 646591	40
		646439	40	646470	40 and		
		646440	40	646471	40	TB 646674	40
		646441	40	646472	40 and		
		646442	40	646473	40	TB 654629	40
				646474	40 and		
		646443	40	646475	40	TB 655274	40
		646444	40	646476	40	655275	40
		646445	40	646477	40	655276	40
		646446	40	646478	40	655277	40
		646447	40	646479	40	655278	40
		646448	40	646480	40	655279	40
		646449	40	646481	40		
		646450	40	646482	40		

TOTAL 156 CLAIMS

WESTERLY PORTION

*See additional Page for
Easterly Portion Claims.

CORPORATION FALCONBRIDGE COPPER,
 P. O. BOX 40,
 COMMERCE COURT WEST,
 TORONTO, ONTARIO M5L 1B4

Licence T-556

EASTERLY PORTION CLAIM LIST

Additional Claims - Airborne Magnetometer Survey - Questor Surveys Limited

and	<u>DAYS</u>	<u>DAYS</u>	<u>DAYS</u> and	<u>DAYS</u>	<u>DAYS</u>				
TB 643754	40	TB 643807	40	TB 645770	40	TB 646583	40	TB 646741	40
643755	40	643808	40	645771	40	646584	40	646742	40
643756	40	643809	40	645772	40	646585	40	646743	40
643757	40	643810	40	645773	40	646586	40	646744	40
643758	40	643811	40	645774	40	646587	40	646745	40
643759	40	643812	40	645775	40	646588	40	646746	40
643760	40	and		645776	40	646589	40	646747	40
643761	40	TB 645728	40	645777	40	646590	40	646748	40
643762	40	645729	40	645778	40				
643763	40	and		645779	40	and			
643764	40	TB 645737	40	645780	40	TB 646715	40	TB 653958	40
643765	40	645738	40	645781	40	646716	40	653959	40
643766	40	645739	40	645782	40	646717	40	653960	40
643767	40	645740	40	645783	40	646718	40	653961	40
643768	40	645741	40	645784	40	646719	40	653962	40
643769	40	645742	40	645785	40	646720	40	653963	40
643770	40	645743	40	645786	40	646721	40	653964	40
643771	40	645744	40	645787	40	646722	40	653965	40
and		645745	40	and		646723	40	653966	40
TB 643779	40	645746	40	TB 646505	40	and		653967	40
643780	40	645747	40	646506	40	T B 646727	40	653968	40
643781	40	645748	40	646507	40	646728	40	653969	40
643782	40	645749	40	646508	40	646729	40	653970	40
and		and		646509	40	646730	40	653971	40
TB 643784	40	TB 645761	40	646510	40	646731	40	653972	40
643785	40	645762	40	646511	40	646732	40	653973	40
643786	40	645763	40	646512	40	646733	40	653974	40
643787	40	645764	40	646513	40	646734	40	653975	40
643788	40	645765	40	646514	40	646735	40	653976	40
and		645766	40	646515	40	646736	40	653977	40
TB 643804	40	645767	40	646516	40	646737	40	653978	40
643805	40	645768	40	646517	40	646738	40	653979	40
643806	40	645769	40	646518	40	646739	40		
				646519	40	646740	40		

See Additional
 Page for

Balance Easterly Claim

February 1st, 1983

CORPORATION FALCONBRIDGE COPPER,
 P. O. BOX 40,
 COMMERCE COURT WEST,
 TORONTO, ONTARIO. M5L 1B4

Licence T-556

and	DAYS	and	DAYS
TB 653998	40	TB 654037	40
653999	40	and	
654000	40	TB 654415	40
654001	40	654416	40
654002	40	654417	40
654003	40	654418	40
654004	40	654419	40
654005	40	654420	40
654006	40	654421	40
654007	40	654422	40
654008	40	and	
654009	40	TB 654564	40
654010	40	654565	40
654011	40	654566	40
654012	40	654567	40
654013	40	654568	40
654014	40	654569	40
654015	40	654570	40
654016	40	654571	40
654017	40	654572	40
654018	40	and	
654019	40	TB 654627	40
654020	40	654628	40
654021	40		
654022	40		
654023	40		
654024	40		
654025	40		
654026	40		
654027	40		
654028	40		
654029	40		

"Westerly Portion"

Following Claims are out of
 sequence, should have been on
 "Report of Work" sheet

TB 386780	20 40	DAYS	DA
386781	20 40	TB 386798	40
386782	20 40	386799	40
386783	20 40		
386784	20 40		
386785	20 40		
386786	20 40		
386787	20 40		
386788	20 40		
386789	20 40		
386790	20 40		
386791	20 40		
386792	20 40		
386793	20 40		
386794	20 40		
386795	20 40		
386796	20 40		
386797	20 40		

**max 80 days reached,*
TOTAL 206 CLAIMS
EASTERLY PORTION

GRAND TOTAL 364 CLAIMS

40 DAYS PER CLAIM FOR
 AIRBORNE MAGNETOMETER SURVEY

May 24/83

Mining Lands Comments

OK

To: Geophysics

Mr. Roger Barlow

Comments

Approved

Wish to see again with corrections

Date July 21/83

Signature Douglas H. Pitches

To: Geology - Expenditures

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

D

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

1983 03 02

2.5394

Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

We have received reports and maps for an Airborne
(Magnetometer) survey submitted on mining claims
TB 386761 et al in the Area of Big Duck Lake.

This material will be examined and assessed and a
statement of assessment work credits will be
issued.

Yours very truly,

E.F. Ander
Director
Land Manag

Whitney B1
Queen's Pa
Toronto, On
M7A 1W3

Phone 416/9

D. Wice:jh

cc: Corpor.
P.O. Bo. ..
Commerce Court West
Toronto, Ontario
M5L 1B4

Paul W.A. Severin
c/o Corp. Falconbridge Copper
2606 Victoria Avenue East
Thunder Bay, Ontario
P7C 1E7

May 20/83

*- assess for mag survey only.
- client has reached maximum
credits for geophysical on these
claims*

R.P.



CORPORATION FALCONBRIDGE COPPER

2606 Victoria Avenue East
Thunder Bay, Ontario P7C 1E7
Telephone 807/623-1511

February 1st, 1983.

Mrs. A. Hayes,
The Mining Recorder,
Ministry of Natural Resources,
435 James Street, South,
P. O. Box 5000,
Thunder Bay, Ontario.
P7C 5G6

RECEIVED

FEB 11 1983

MINING LANDS SECTION

Dear Mrs. Hayes:

With reference to our airborne Magnetometer Survey Assessment Report covering our claims in the Big Duck Lake area, please note the following:

A total of 364 claims are involved and we have divided the claims into two groups. Area 070 in the westerly portion covers 158 claims and area 086 covers 206 claims in the easterly portion, thus the numerical sequence of the claim numbers are divided into two lists.

Yours truly,
CORPORATION FALCONBRIDGE COPPER

P. W. A. SEVERIN
SENIOR EXPLORATION GEOLOGIST
PWAS/ce

encls. 2 Copies of Report.



Ministry of Natural Resources

File _____

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

086 - Easterly Portion
206 Claims
070 - Westerly Portion
158 Claims

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 Survey(s) AIRBORNE MAGNETOMETER
Township or Area BIG DUCK LAKE AREA -G599,606,609,617
Claim Holder(s) CORPORATION FALCONBRIDGE COPPER
P.O. BOX 40, COMMERCE COURT WEST, TORONTO, ONT, M5L 1B4
Survey Company QUESTOR SURVEYS LIMITED, MISSISSAUGA, ONT.
Author of Report P. W. A. SEVERIN, c/o CORP. FALCONBRIDGE COPPER
Address of Author 2606 VICTORIA AVENUE, EAST, THUNDER BAY, ONT
Covering Dates of Survey JULY 18-19, 1982 P7C 1E7
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

TB	386761	Westerly Portion
(prefix)	(number)	
TB	386762	
	386763	
	386764	
	386765	
	386766	
	386767	
	386768	
	386769	
	386770	
	and TB	386777
	386778	
	386779	
	386800	
	386801	
	386802	
	386803	
	386804	
	386805	
	386806	
	386807	
TB	386808	

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
Geophysical	
-Electromagnetic	
-Magnetometer	
-Radiometric	
-Other	
Geological	
Geochemical	

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer 40 Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: FEBRUARY 1, 1983 SIGNATURE: Paul Severin
Author of Report or Agent

RECEIVED

FEB 1 1983

Res. Geol. _____ Qualifications 2.2561

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 364 see attached list also

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters -- On time _____ Frequency _____

-- Off time _____ Range _____

-- Delay time _____

-- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

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) MAGNETIC

Instrument(s) SONOTEK P. M. H. 5010 PROTON MAGNETOMETER
(specify for each type of survey)

Accuracy 1 GAMMA
(specify for each type of survey)

Aircraft used TWIN-ENGINE TURBINE SHORT SKYVAN SH-7 AIRCRAFT (C-FQSL)

Sensor altitude 48 METERS

Navigation and flight path recovery method NAVIGATION BY UNCONTROLLED PHOTO MOSAICS
FLIGHT PATH - 35 mm FILM

Aircraft altitude 122 Metres Line Spacing 200 Metres

Miles flown over total area 1,032 Line Kilometres Over claims only 365 Line Kilometres

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ test)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

February 1st, 1983

CORPORATION FALCONBRIDGE COPPER

Licence T-556

P. O. BOX 40,

COMMERCE COURT WEST,

TORONTO, ONTARIO. M5L 1B4

Additional Claims - Airborne Magnetometer Survey - Questor Surveys Limited
and

TB	519245	TB	646420	TB	646451	TB	646483
	519246		646421		646452		646484
	519247		646422		646453		646485
	519248		646423		646454		646486
			646424		646455		646487
and			646425		646456		646488
TB	535914		646426		646457		646489
	535915		646427		646458		646490
	535916		646428		646459	and	
	535917		646429		646460	TB	646569
	535918		646430		646461		646570
	535919		646431		646462		646571
and			646432		646463		646572
TB	557750		646433		646464		646573
	557751		646434		646465		646574
and			646435		646466		646575
TB	645756		646436		646467		646576
	645757		646437		646468	and	
and			646438		646469	TB	646591
TB	646406		646439		646470	and	
	646407		646440		646471	TB	646674
	646408		646441		646472	and	
	646409		646442		646473	TB	654629
	646410				646474	and	
	646411				646475	TB	655274
	646412		646443		646476		655275
	646413		646444		646477		655276
	646414		646445		646478		655277
	646415		646446		646479		655278
	646416		646447		646480		655279
	646417		646448		646481		
	646418		646449		646482		
	646419		646450				

TOTAL 156 CLAIMSWESTERLY PORTION

*See additional Page for
Easterly Portion Claims.

CORPORATION FALCONBRIDGE COPPER,
 P. O. BOX 40,
 COMMERCE COURT WEST,
 TORONTO, ONTARIO M5L 1B4

Licence T-556

EASTERLY PORTION CLAIM LIST

Additional Claims - Airborne Magnetometer Survey - Questor Surveys Limited

and			and	
TB 643754	TB 643807	TB 645770	TB 646583	TB 646741
643755	643808	645771	646584	646742
643756	643809	645772	646585	646743
643757	643810	645773	646586	646744
643758	643811	645774	646587	646745
643759	643812	645775	646588	646746
643760	and	645776	646589	646747
643761	TB 645728	645778	646590	646748
643762	645729	645779	and	and
643763	and	645780	TB 646715	TB 653958
643764	TB 645737	645781	646716	653959
643765	645738	645782	646717	653960
643766	645739	645783	646718	653961
643767	645740	645784	646719	653962
643768	645741	645785	646720	653963
643769	645742	645786	646721	653964
643770	645743	645787	646722	653965
643771	645744	and	646723	653966
and	645745	TB 646505	and	653967
TB 643779	645746	646506	T B 646727	653968
643780	645747	646507	646728	653969
643781	645748	646508	646729	653970
643782	645749	646509	646730	653971
and	and	646510	646731	653972
TB 643784	TB 645761	646511	646732	653973
643785	645762	646512	646733	653974
643786	645763	646513	646734	653975
643787	645764	646514	646735	653976
643788	645765	646515	646736	653977
and	645766	646516	646737	653978
TB 643804	645767	646517	646738	653979
643805	645768	646518	646739	
643806	645769	646519	646740	

See Additional
 Page for

Balance Easterly Claims

February 1st, 1983

CORPORATION FALCONBRIDGE COPPER,
P. O. BOX 40,
COMMERCE COURT WEST,
TORONTO, ONTARIO. M5L 1B4

Licence T-556

and	
TB 653998	and TB 654037
653999	and
654000	TB 654415
654001	654416
654002	654417
654003	654418
654004	654419
654005	654420
654006	654421
654007	654422
654008	and
654009	TB 654564
654010	654565
654011	654566
654012	654567
654013	654568
654014	654569
654015	654570
654016	654571
654017	654572
654018	and
654019	TB 654627
654020	654628
654021	
654022	
654023	
654024	
654025	
654026	
654027	
654028	
654029	

TOTAL 206 CLAIMS
EASTERLY PORTION

GRAND TOTAL 364 CLAIMS



CORPORATION FALCONBRIDGE COPPER

2606 Victoria Avenue East
Thunder Bay, Ontario P7C 1E7
Telephone 807/623-1511

February 2nd, 1983

Mrs. Audrey M. Hayes,
Mining Recorder,
Ministry of Natural Resources,
P. O. Box 5000,
435 James Street, South,
Thunder Bay, Ontario.
P7C 5G6

RE: TECHNICAL DATA REPORT - AIRBORNE MAGNETOMETER SURVEY
BIG DUCK LAKE AREA G 599, 606, 609, 617

Dear Mrs. Hayes:

The following claims should have been included in our list of claims for assessment (Westerly Portion). It would be appreciated if you would add this letter to the report to account for 364 claims.

TB 386780	TB 386787	TB 386794
386781	386788	386795
386782	386789	386796
386783	386790	386797
386784	386791	386798
386785	386792	386799
386786	386793	

One claim was omitted on the Easterly Portion claim list TB 645777
(Page 2 of 3).

Thank you for your co-operation.

Yours truly,

CORPORATION FALCONBRIDGE COPPER

P. W. A. SEVERIN

SENIOR EXPLORATION GEOLOGIST

UPPER AGUASABON LAKE G-617

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

S.R. - SURFACE RIGHTS M.R. - MINING RIGHTS

Description Order No. Date Disposition File

DATE OF ISSUE
AUG - 4 1983
Ministry of Natural Resources
TORONTO

NOTES

- 400' SURFACE RIGHTS RESERVATION AROUND ALL LAKES & RIVERS.
- FLOODING RIGHTS TO CONTOUR 985 ON AGUASABON LAKES RESERVED TO H.E.P.C. OF ONTARIO, FILE:132730
- FLOODING RIGHTS ON OWL LAKE RESERVED TO H.E.P.C. OF ONTARIO, FILE:132730, TO 15' ABOVE PRESENT WATER LEVEL.
- RIVER, BED AND FLATS ON AGUASABON RIVER RESERVED TO 20' ABOVE PRESENT WATER LEVEL SOUTH OF LOC. J.K.309 FOR FLOODING FILE:110752 VOL. 6

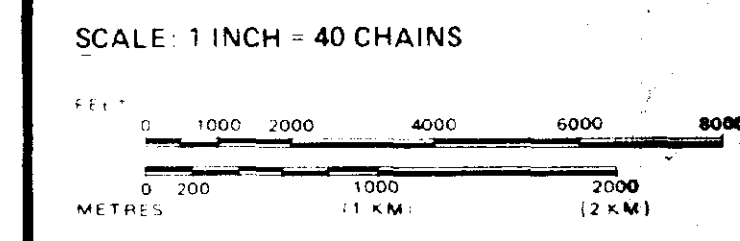
LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKIE
- MINES
- TRAVERSE MONUMENT

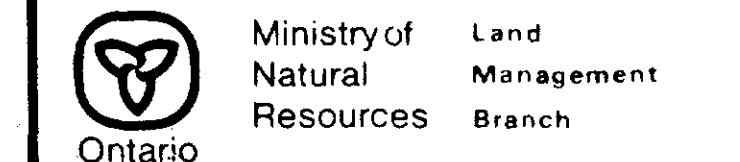
DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
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	◕
RESERVATION	◖
CANCELLED	◗
SAND & GRAVEL	◘

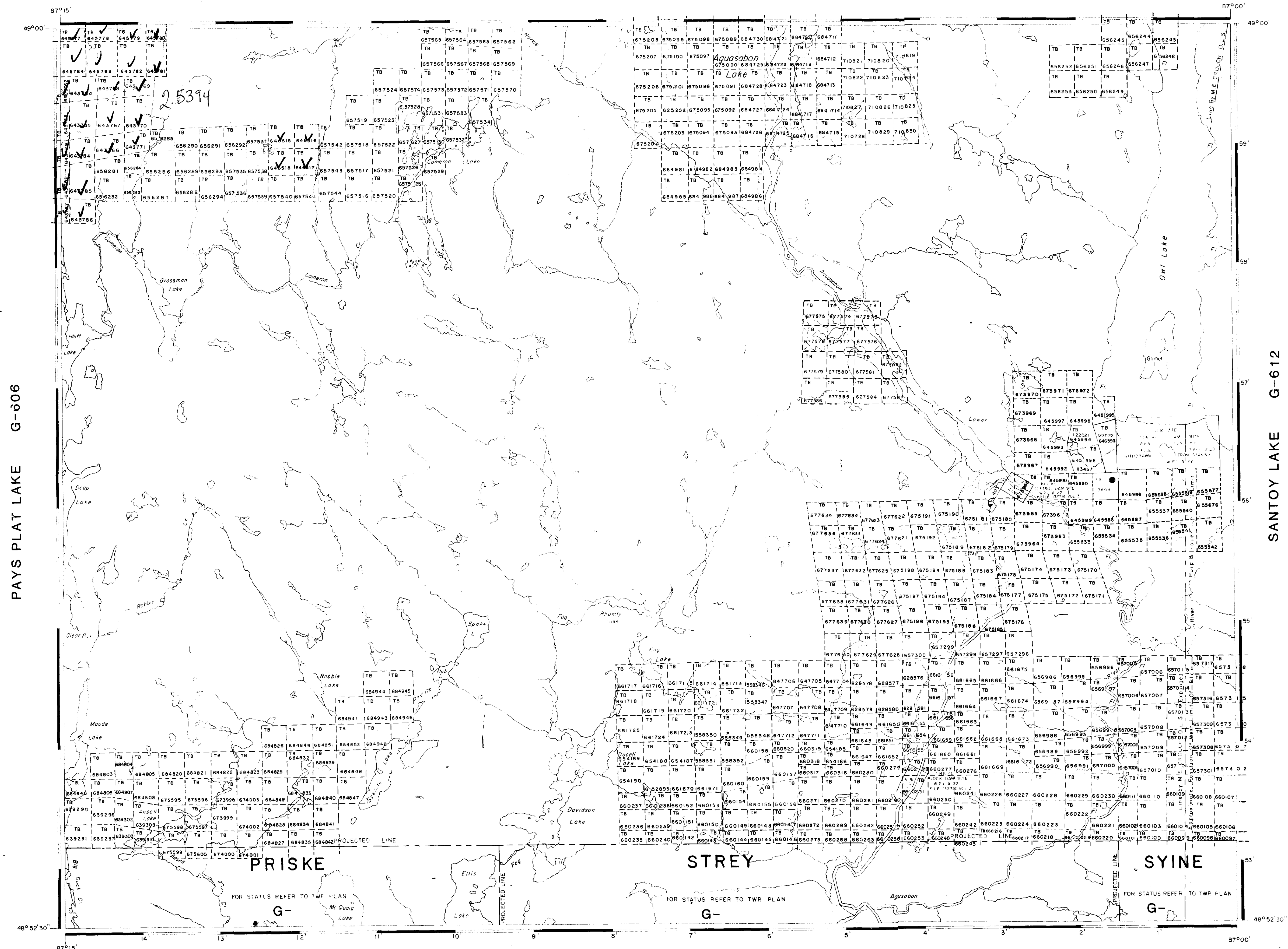
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 9, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63 SUBSEC. 1.



AREA
LOWER AGUASABON LAKE
M.N.R. ADMINISTRATIVE DISTRICT
TERRACE BAY
MINING DIVISION
THUNDER BAY
LAND TITLES / REGISTRY DIVISION
THUNDER BAY

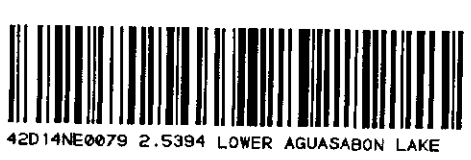


Date: FEBRUARY, 1982 Number: **G-599**



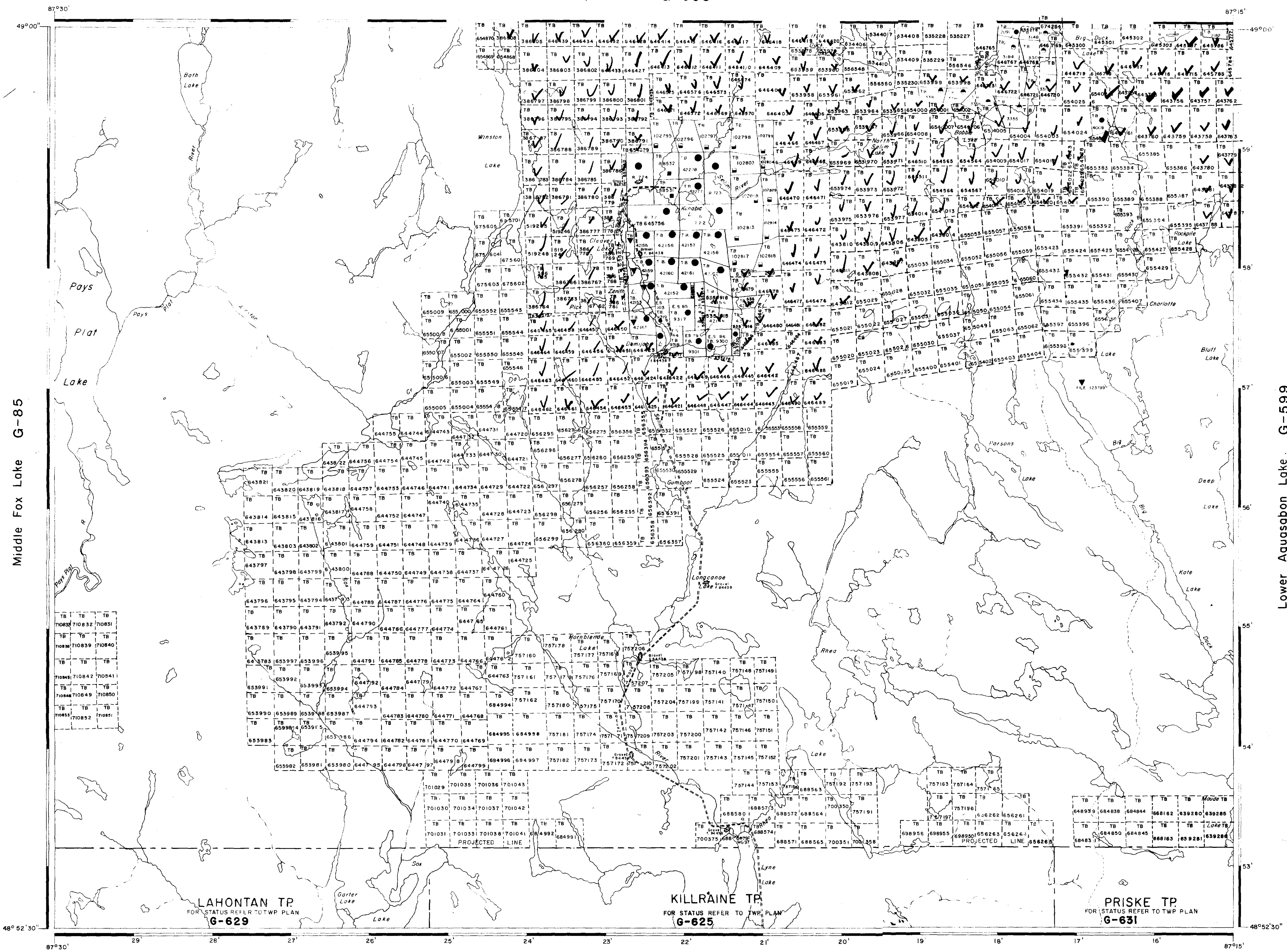
PAYS PLAT LAKE G-606

SANTOY LAKE G-612



DATE OF ISSUE
AUG - 4 1983
Ministry of Natural Resources
TORONTO

Rope Lake G-609



LEGEND

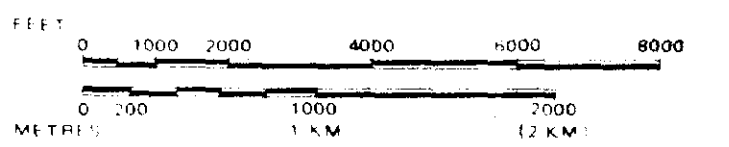
- HIGHWAY AND ROUTE N
- OTHER ROADS
- TRAILS
- SURVEYED LINE
- UNSURVEYED LINES
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEL
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
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. 43, SUB-SEC. 1

SCALE: 1 INCH = 40 CHAINS



AREA
PAYS PLAT LAKE

M.N.R. ADMINISTRATIVE DISTRICT
TERRACE BAY
MINING DIVISION
THUNDER BAY
LAND TITLES / REGISTRY DIVISION
THUNDER BAY



Date FEB. 15 / 1982

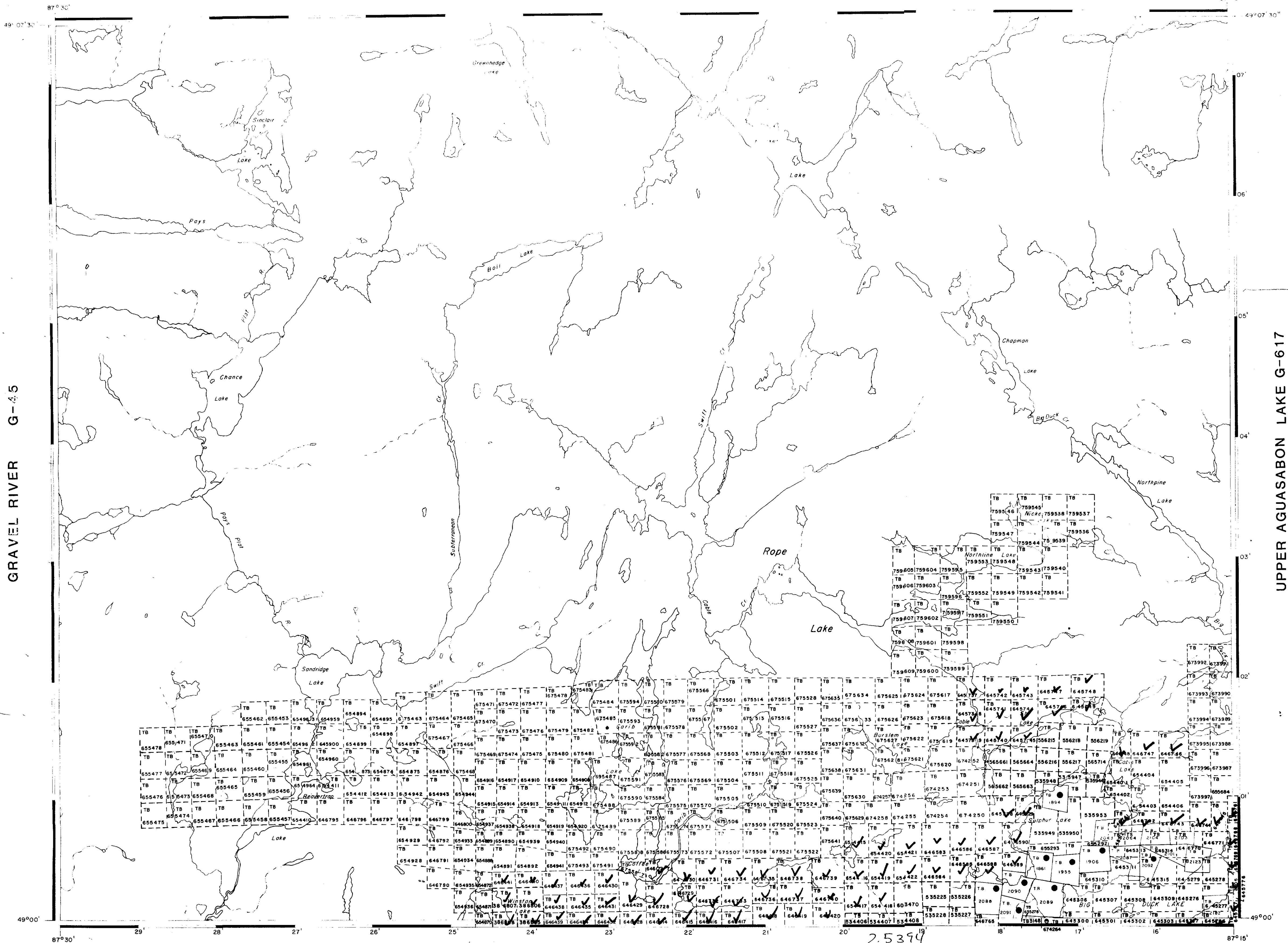
Number
G-606

COPPER ISLAND G-588



DICKISON LAKE G-31

REFERENCES



DATE OF ISSUE
AUG - 4 1983
Ministry of Natural Resources
TORONTO

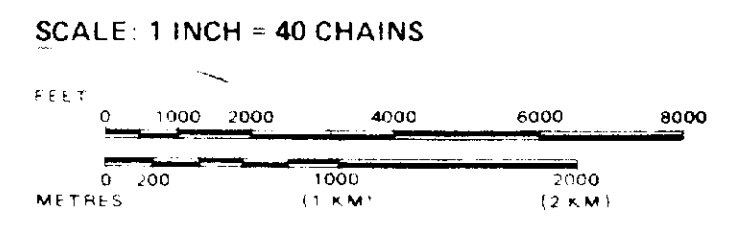
LEGEND

- HIGHWAY AND OTHER ROADS
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

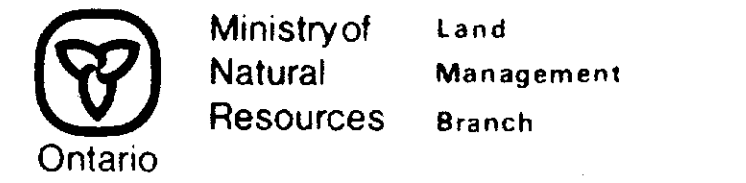
DISPOSITION OF CROWN LANDS

- | TYPE OF DOCUMENT | SYMBOL |
|---------------------------------|--------|
| 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 PATENTEES BY THE PUBLIC LANDS ACT R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1



AREA
ROPE LAKE
M.N.R. ADMINISTRATIVE DISTRICT
TERRACE BAY
MINING DIVISION
THUNDER BAY
LAND TITLES / REGISTRY DIVISION
THUNDER BAY



Date FEB. 17, 1982 Number
G-609

GRAVEL RIVER G-45

UPPER AGUASABON LAKE G-617

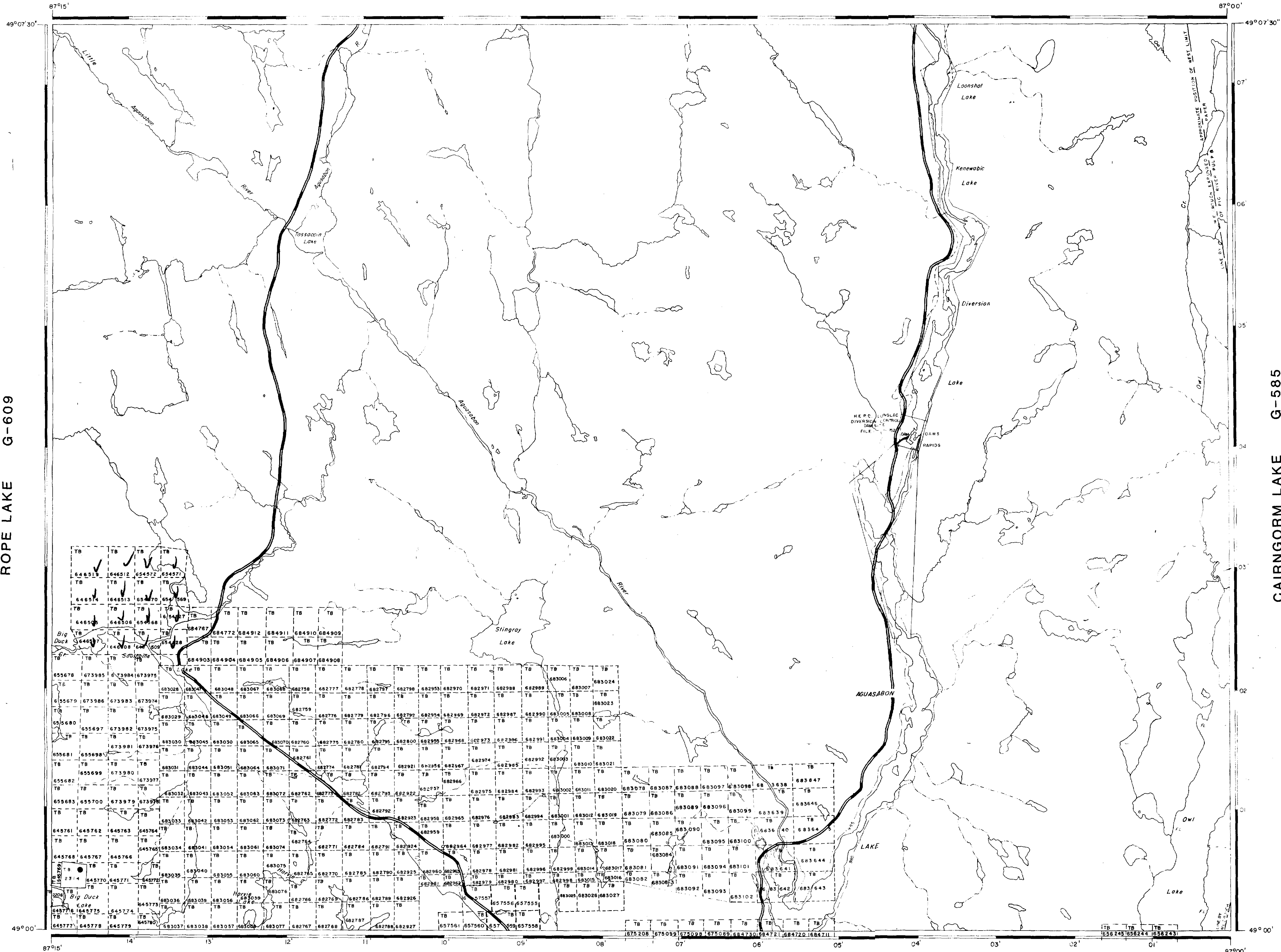
PAYS PLAT LAKE G-606



2.5394

BRAY LAKE G-584

REFERENCES



DATE OF ISSUE
AUG - 4 1983
Ministry of Natural Resources
TORONTO

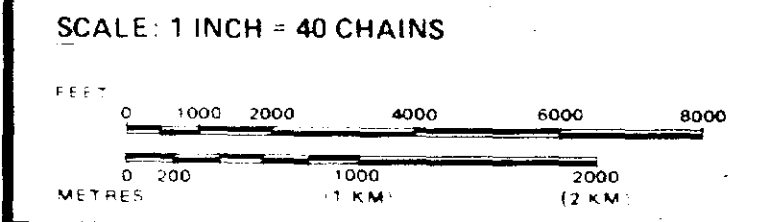
LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

- | TYPE OF DOCUMENT | SYMBOL |
|---------------------------------|--------|
| 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

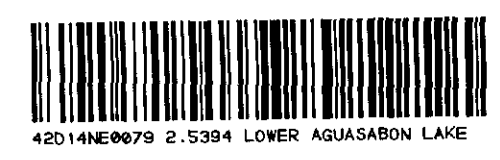


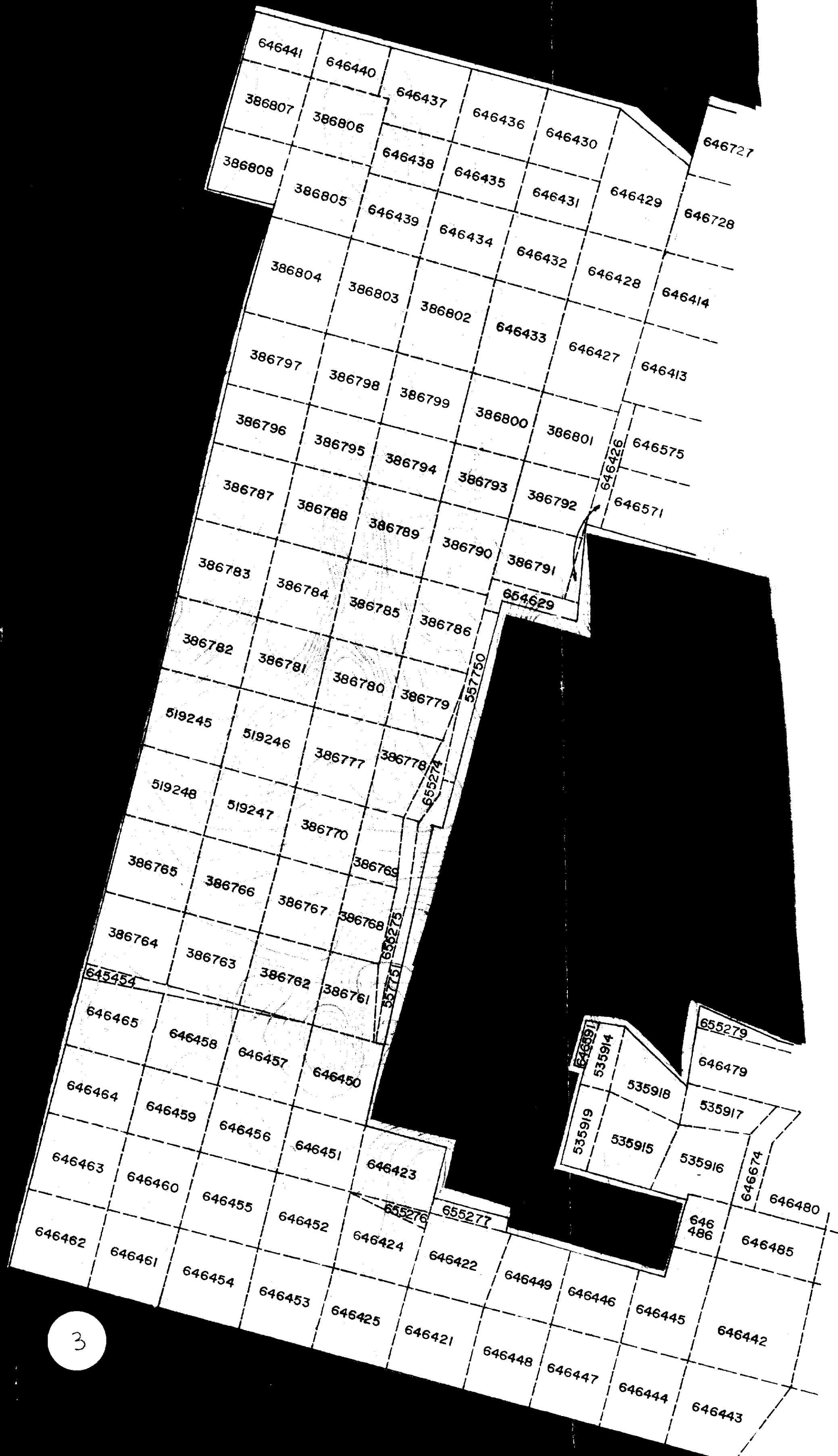
AREA
UPPER AGUASABON LAKE
M.N.R. ADMINISTRATIVE DISTRICT
TERRACE BAY
MINING DIVISION
THUNDER BAY
LAND TITLES / REGISTRY DIVISION
THUNDER BAY

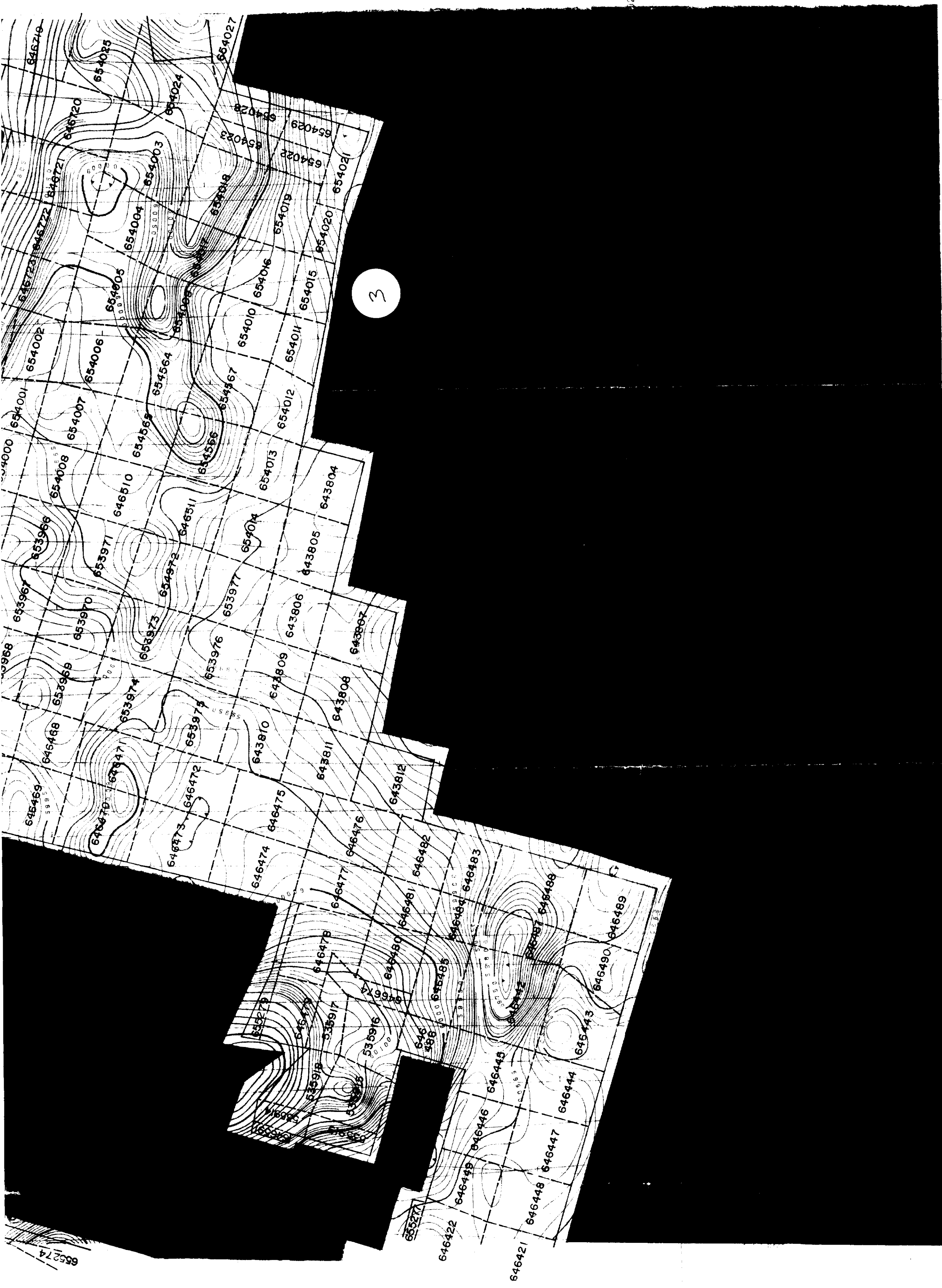
Ministry of Natural Resources
Land Management Branch
Ontario

Date FEB. 22, 1982
Number
G-617

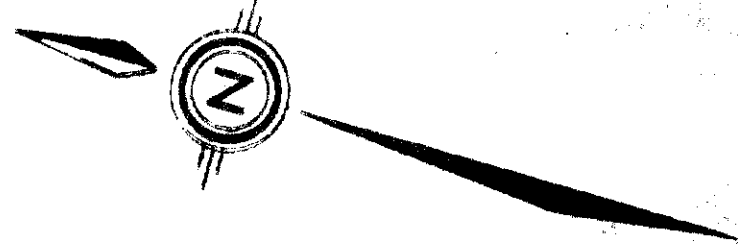
LOWER AGUASABON LAKE G-599







100200
100415
100630
100845
101060
101275
101490
101705
101920
102135
102350
102565
102780
103000



321E

