



32D12SE0031 2.4013 STOUGHTON

020

BORDER GROUP
NUFORT RESOURCES INC.

MAXMIN II - HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY
STOUGHTON TOWNSHIP
DISTRICT OF COCHRANE
LARDER LAKE MINING DIVISION
ONTARIO

12 July 1981

W. G. Wahl Limited

GENERAL

The following geophysical report details the results of the ground electromagnetic survey undertaken by W. G. Wahl Limited on behalf of Surveymin Limited and Nufort Resources Inc.

The property lies in the northeast corner of Stoughton Township, District of Cochrane, and is accessible by four-wheel drive vehicle west from the small village of Roquemaure, Quebec, via an all-weather gravel road to Lake Abitibi, at which point an old logging road trends south and westerly across the Ontario border to the property.

The geophysical survey was carried out over the following 15 unpatented contiguous mining claims, all of which are duly recorded with Mr. G. J. Koleszar, Mining Recorder, Larder Lake Mining Division.

L-528775	L-528778
L-528776	--
L-528777	--
<hr/>	
L-528791	L-528794
L-528792	L-528795
L-528793	L-528796
<hr/>	
L-540383	L-540386
L-540384	L-540387
L-540385	--

LINE CUTTING

The line cutting was conducted under the direct supervision of Mr. Orville Hicks et al. of Schumacher, Ontario, during the period from January 14, 1981, to February 15, 1981. The survey grid consisted of 1.96 miles of baseline trending N45°W and 25.04 miles of grid line trending N45°E, established at 400 foot intervals along the entire baseline. Fifty-foot stations were established on all lines.

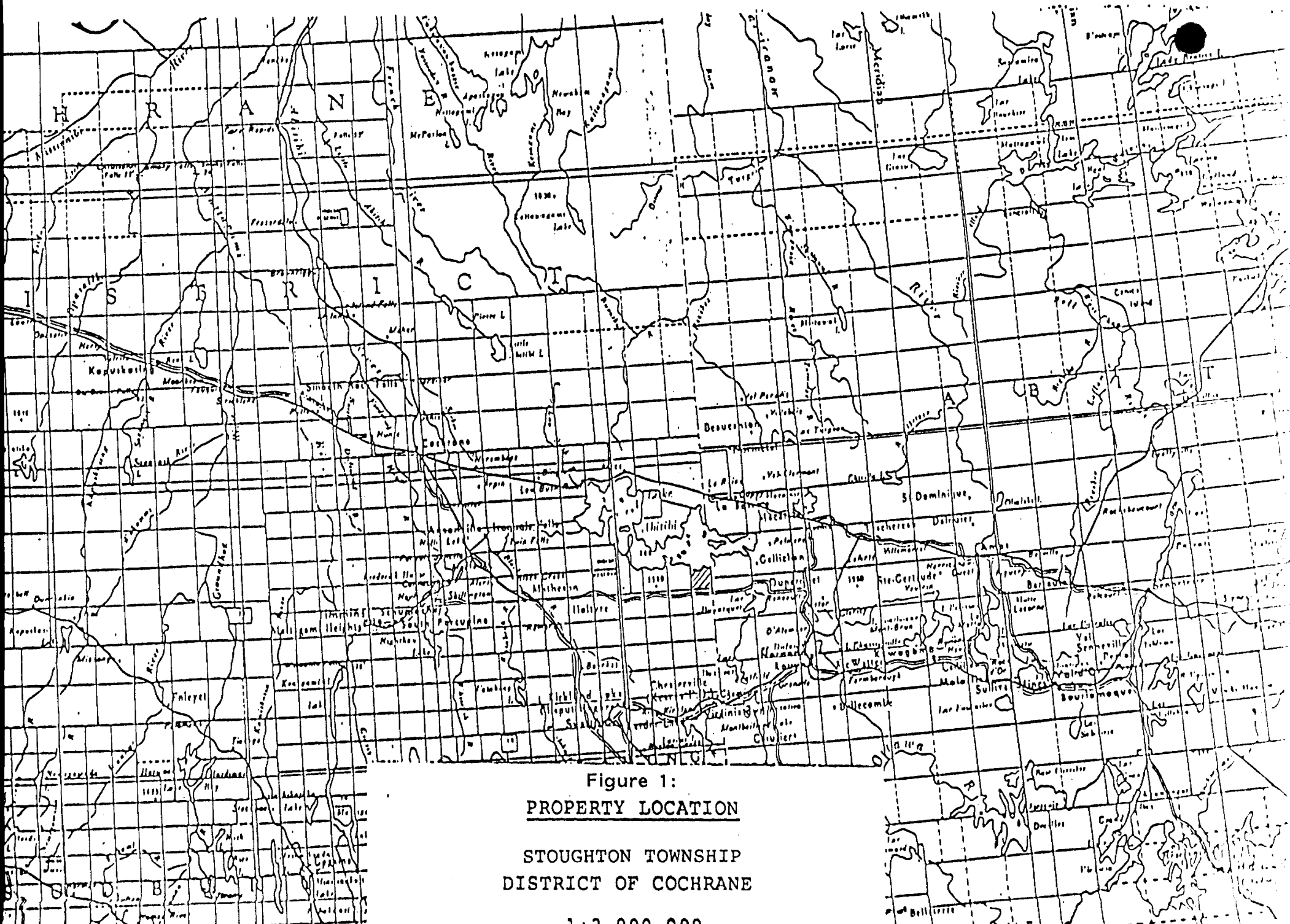


Figure 1:
PROPERTY LOCATION
 STOUGHTON TOWNSHIP
 DISTRICT OF COCHRANE

MISTAKEN ISLANDS M. 279.

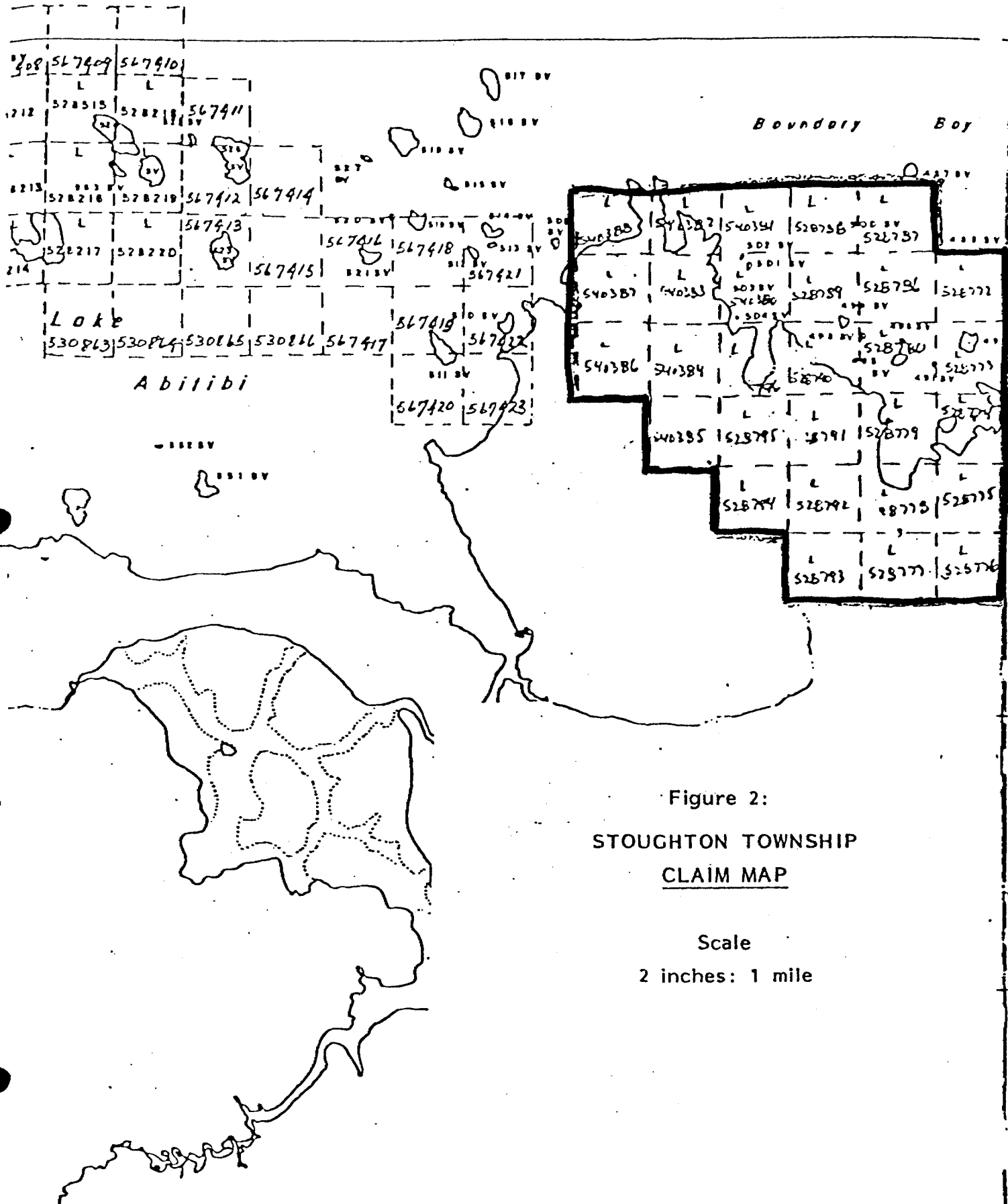


Figure 2:
STOUGHTON TOWNSHIP
CLAIM MAP

Scale
2 inches: 1 mile

Assessment work credits have already been received for the line cutting, filed under special provisions, reference file No. 2.3875.

MAXMIN II HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

The horizontal loop electromagnetic survey was carried out by W. G. Wahl Limited during the period from May 10 to May 18, 1981, employing an Apex Parametrics MaxMin II horizontal loop survey unit in the maximum coupled mode. The inphase and quadrature response parameters were recorded at 444 Hz and 1777 Hz, utilizing a 200 foot coil separation and a 100 foot station interval. These data are presented in a profile format.

The 200 foot coil separation was established based on depth-to-top calculations carried out on the total magnetic field data. Mr. J. H. Ratcliffe, consulting geophysicist, assisted in this work.

DISCUSSION

The multi-frequency horizontal loop electromagnetic survey was carried out over selected portions of the land area of the property in an attempt to further define the vlf anomalies identified during an earlier survey. The vlf anomalies, as confirmed by the geological mapping, are poorly conductive shear zones containing a very low percentage of total sulfides. The minor graphite noted during the geological survey is not pervasive enough to affect the overall conductivity measured at the lower frequencies used by the MaxMin II (1777 Hz and 444 Hz). The shear zones were mapped by the vlf because of the much higher frequencies used by the EM-16 system (24,000 Hz [24.0 KHz]) which tends to pick up weaker

conductive zones such as weakly disseminated sulfides and shear zones.

CONCLUSIONS

It is recommended in light of the favourable assays returned by Miller, 1907, reported taken from a shear zone mapped along the southern shore of Lake Abitibi, that the more favourable vlf anomalies be tested by diamond drilling.

All of which is respectfully submitted.



Sincerely yours,

W. G. WAHL LIMITED

A handwritten signature in cursive script, appearing to read 'D. G. Wahl', written in dark ink.

D. G. Wahl, P.Eng.
Consulting Engineer

DGW/pl

2.4013



W. G. WAHL LIMITED

CONSULTANTS: GEOLOGY - GEOPHYSICS

350 BAY ST. - 10TH FLR. - TORONTO, CANADA M5H 2S6
TEL. (416) 363-8761 - CABLE: WAHLCO - TORONTO

14 July 1981

Mr. J. A. Harquail
President
Nufort Resources Inc.
Suite 1107
330 Bay Street
Toronto, Ontario
M5H 2S8

RECEIVED

JUL 22 1981

MINING LANDS SECTION

Dear Mr. Harquail:

Submitted herewith is our report entitled:

**BORDER GROUP
NUFORT RESOURCES INC.**

**MAXMIN II - HORIZONTAL LOOP
ELECTROMAGNETIC SURVEY**

**STOUGHTON TOWNSHIP
DISTRICT OF COCHRANE
LARDER LAKE MINING DIVISION
ONTARIO**

The multi-frequency horizontal loop electromagnetic survey was carried out over selected portions of the land area of the property in an attempt to further define the vlf anomalies identified during an earlier survey. The vlf anomalies, as confirmed by the geological mapping, are poorly conductive shear zones containing a very low percentage of total sulfides. The minor graphite noted during the geological survey is not pervasive enough to affect the overall conductivity measured at the lower frequencies used by the MaxMin II (1777 Hz and 444 Hz). The shear zones were mapped by the vlf because of the much higher frequencies used by the EM-16 system (24,000 Hz [24.0 KHz]) which tends to pick up weaker conductive zones such as weakly disseminated sulfides and shear zones.

It is recommended, in light of the favourable assays returned by Miller, 1907, reported taken from a shear zone mapped along the southern shore of Lake Abitibi, that the more favourable vlf anomalies be tested by diamond drilling.

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

The shoreline of Lake Abitibi forms the boundary of this Township.

SAND & GRAVEL

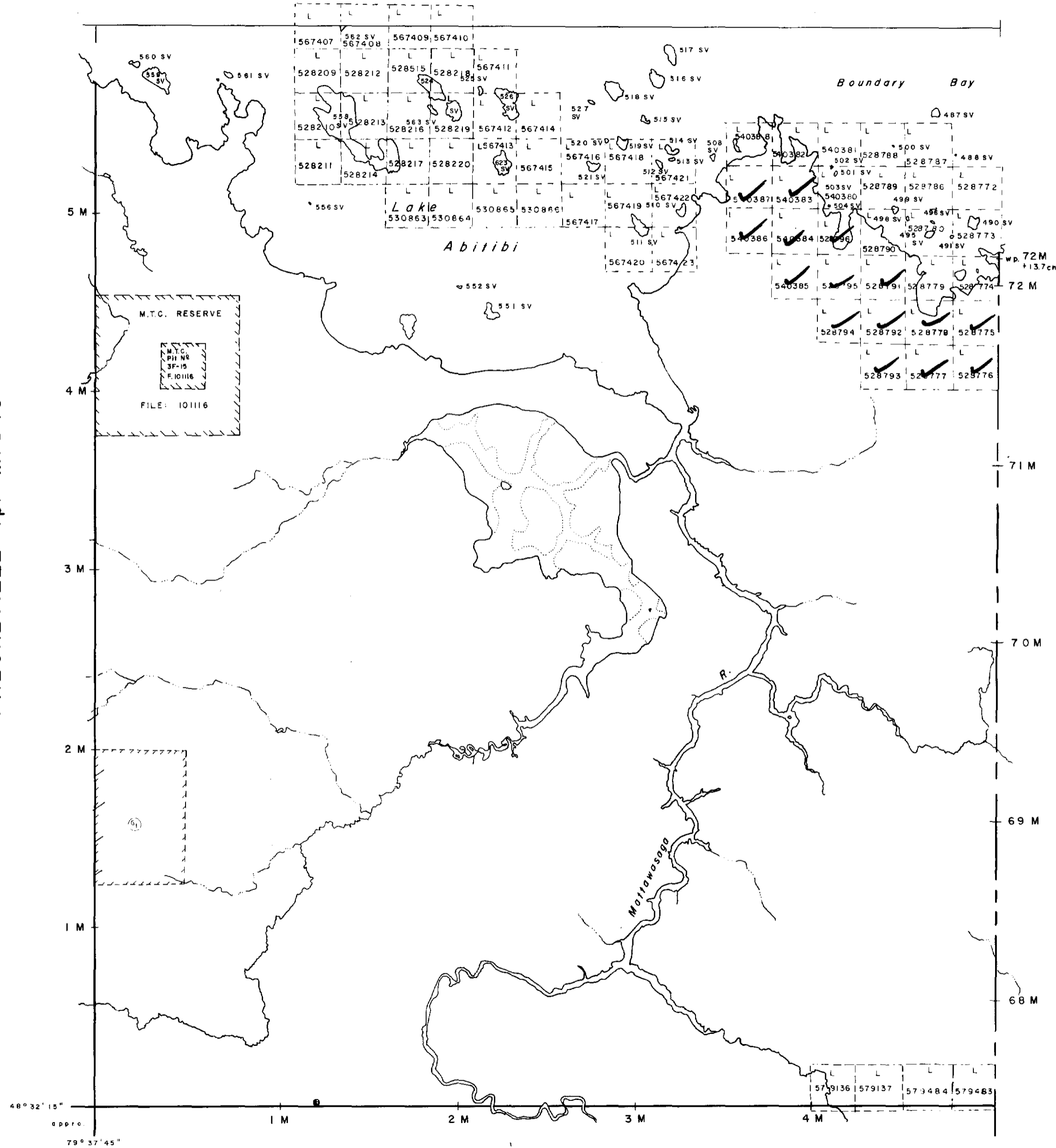
M.T.C. Gravel Pit 3F 20

DATE OF ISSUE
NOV 24 1981
Ministry of Natural Resources
TORONTO

MISTAKEN ISLANDS M. 279

FRECHEVILLE Tp. M. 348

PROVINCE OF QUÉBEC



MARRIOTT Tp. M. 363

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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

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 | ▼ |
| CROWN LAND SALE | CS |
| ORDER-IN-COUNCIL | OC |
| RESERVATION | ⊙ |
| CANCELLED | ⊗ |
| SAND & GRAVEL | ⊕ |

SCALE: 1 INCH = 40 CHAINS



ACRES HECTARES

40 16

TOWNSHIP

STOUGHTON

DISTRICT

COCHRANE
MINING DIVISION 2.4013
LARDER LAKE

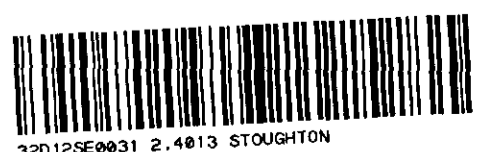
Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Date 12-74 Plan No.

Whitney Block
Queen's Park, Toronto

M. 389



32D12SE0031 2.4013 STOUGHTON

E

K

A

L

B

L 5 4 0 3 8 1

L 5 2 8 7 8 9

L 5 2 8 7 8 0

A

B

I

I

L 5 4 0 3 8 2

L 5 4 0 3 8 0

L 5 2 8 7 9 0

L 5 4 0 3 8 3

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L 5 4 0 3 8 7

L 5 4 0 3 8 4

L 5 2 8 7 9 5

L 5 4 0 3 8 6

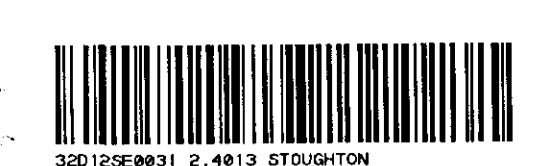
L 5 4 0 3 8 5

L 5 2 8 7 9 4

BEAVER POND

L44+00W L40+00W L36+00W L32+00W L28+00W L24+00W L20+00W L16+00W L12+00W L8+00W L24+

L4+00W L0+00 L4+00E L8+00E L12+00E L16+00E L20+00E



E

K

A

L

B

L 5 4 0 3 8 1

L 5 2 8 7 8 9

L 5 2 8 7 8 0

B

A

L 5 4 0 3 8 2

L 5 4 0 3 8 0

L 5 2 8 7 9 0

L 5 4 0 3 8 8

L 5 4 0 3 8 3

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L 5 4 0 3 8 7

L 5 4 0 3 8 4

L 5 2 8 7 9 5

L 5 4 0 3 8 6

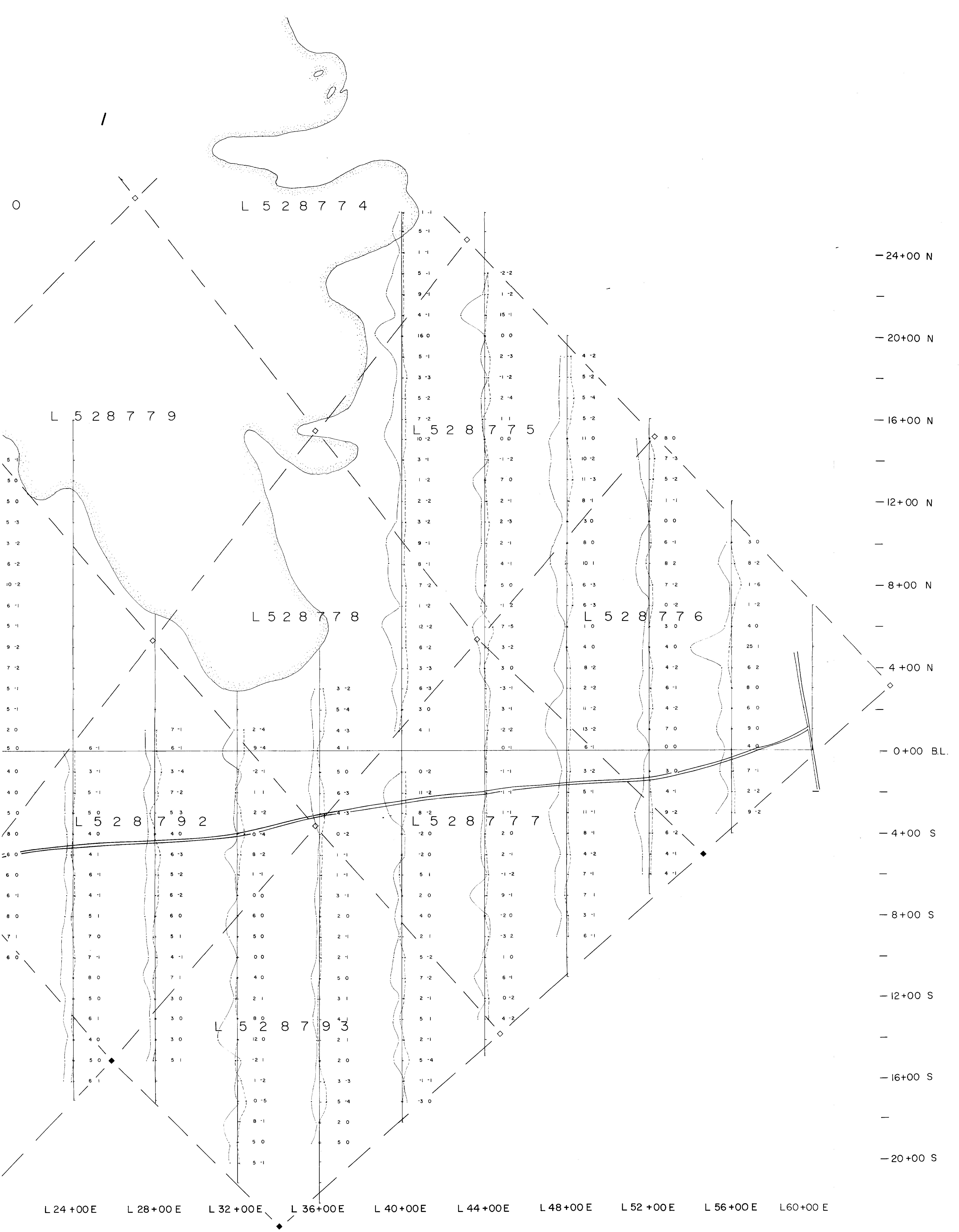
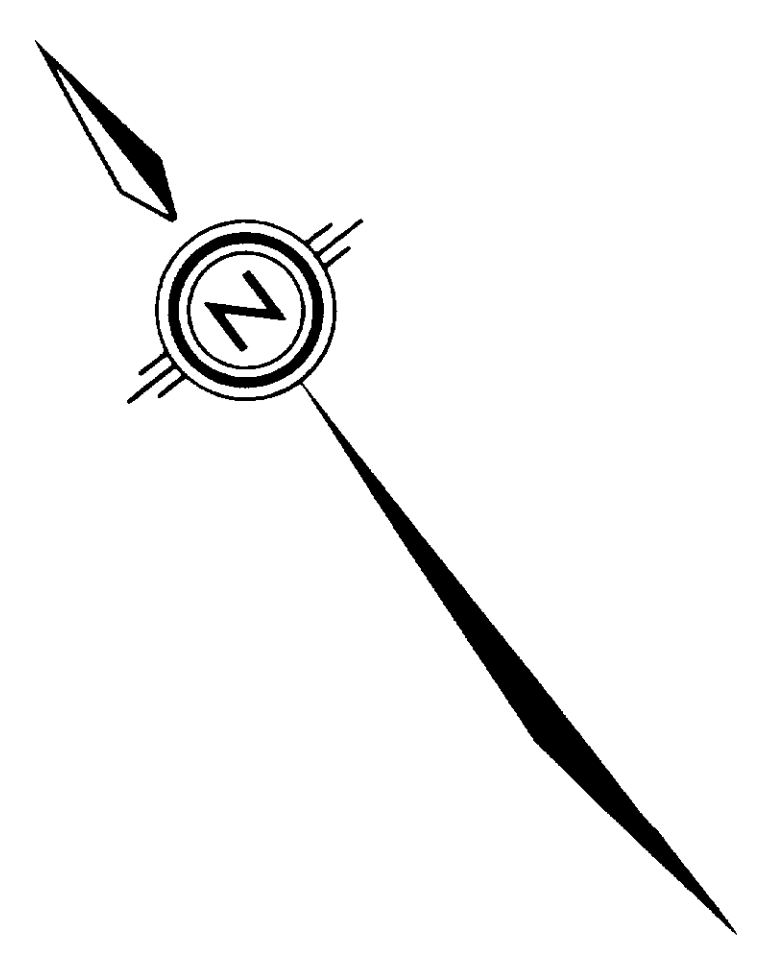
L 5 4 0 3 8 5

L 5 2 8 7 9 4

L44+00W L40+00W L36+00W L32+00W L28+00W L24+00W L20+00W L16+00W L12+00W L8+00W L4+00W

L 0+00 L4+00 E L8+00 E L12+00E L16+00E L20+00 E



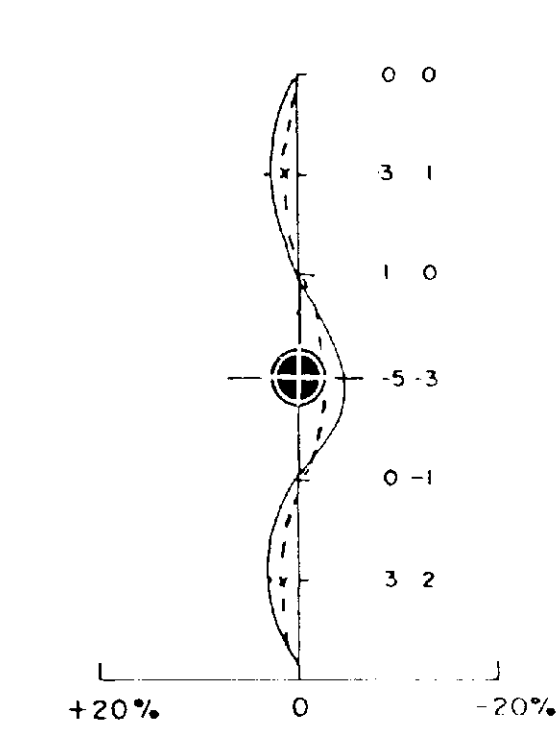


-24+00 N
 -
 -20+00 N
 -
 -16+00 N
 -
 -12+00 N
 -
 -8+00 N
 -
 -4+00 N
 -
 -0+00 BL.
 -
 -4+00 S
 -
 -8+00 S
 -
 -12+00 S
 -
 -16+00 S
 -
 -20+00 S

L 24+00E L 28+00E L 32+00E L 36+00E L 40+00E L 44+00E L 48+00E L 52+00E L 56+00E L 60+00E

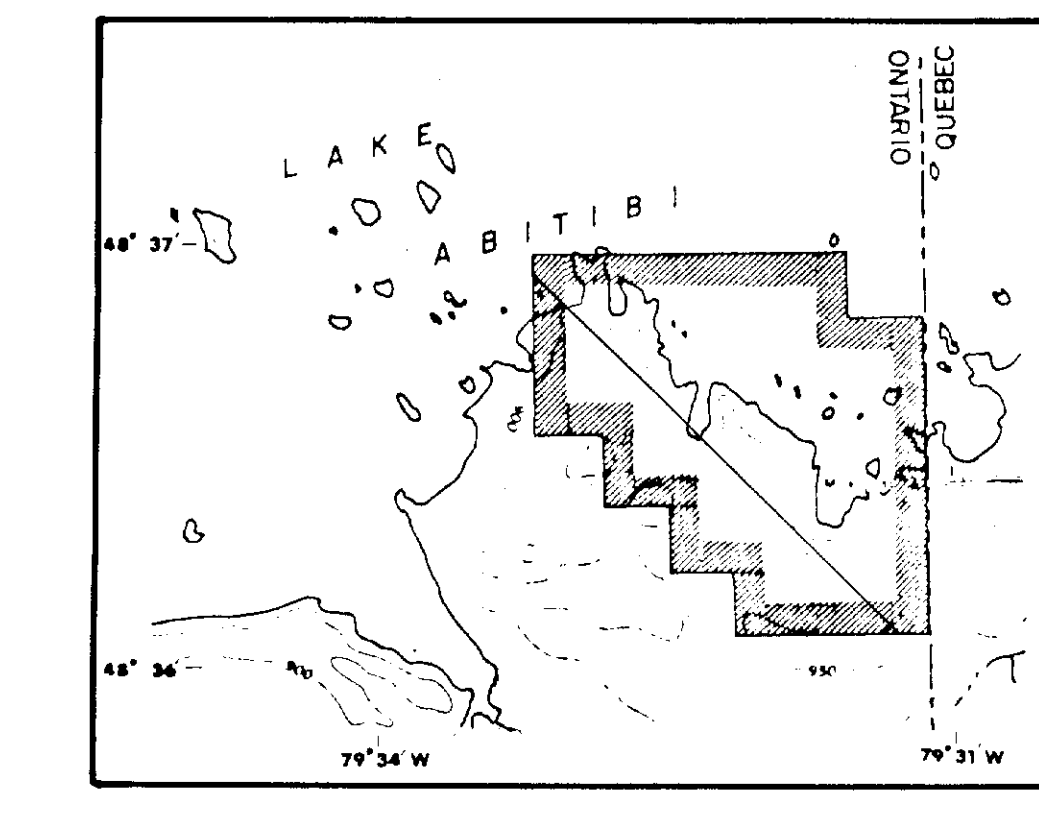
LEGEND
 — In-Phase
 - - - Quadrature
 ⊕ Conductor Axis

Scale 1" = 20'

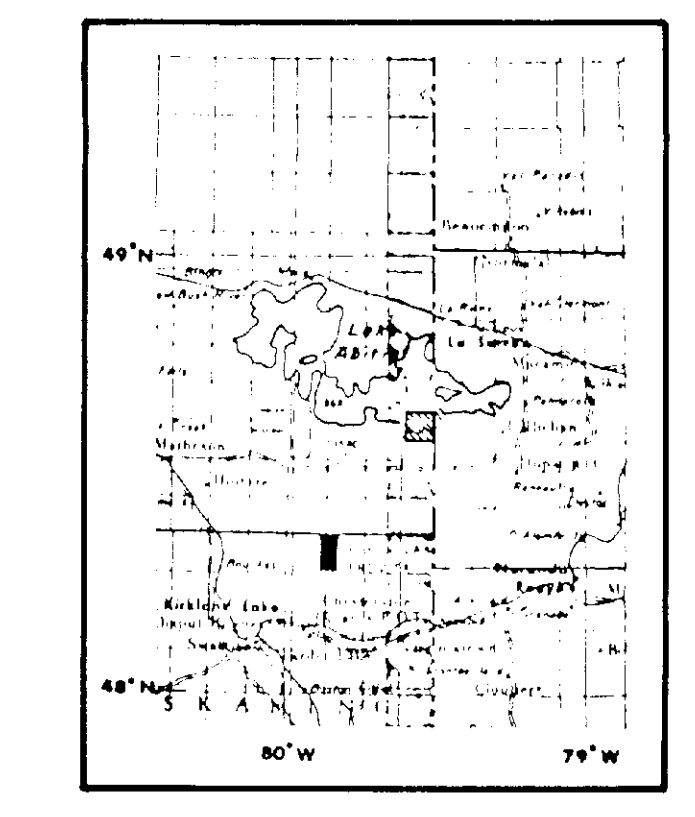


Tx or Rx 200 Rx or Tx
 Tx - Rx Separation

■ EXISTING CLAIM POSTS
 □ ASSUMED CLAIM POSTS
 — CLAIM LINE
 — SHORE LINE
 — ROAD

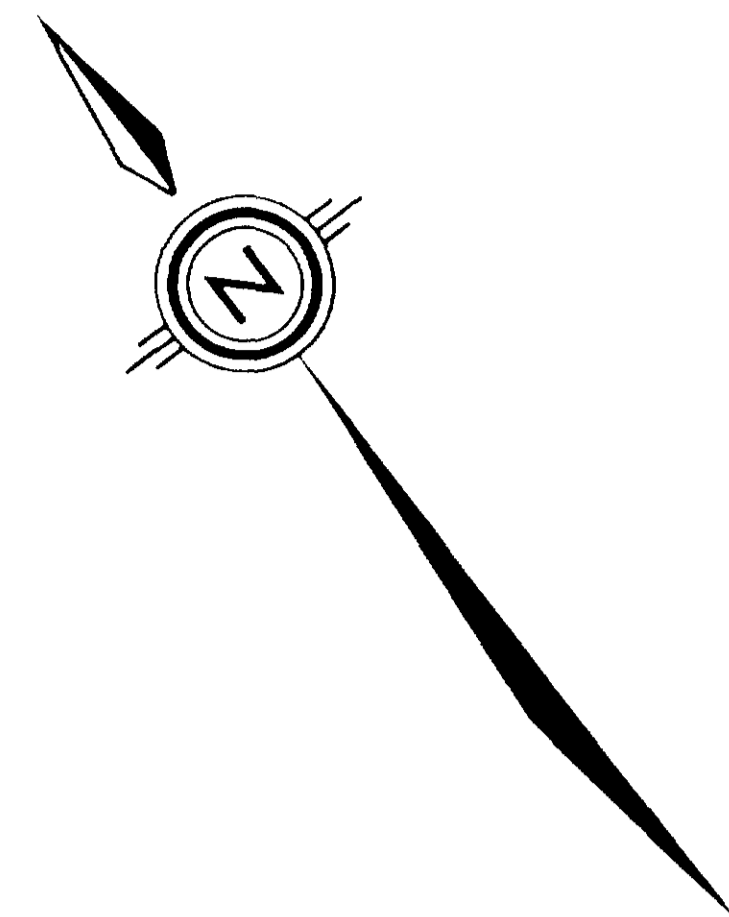
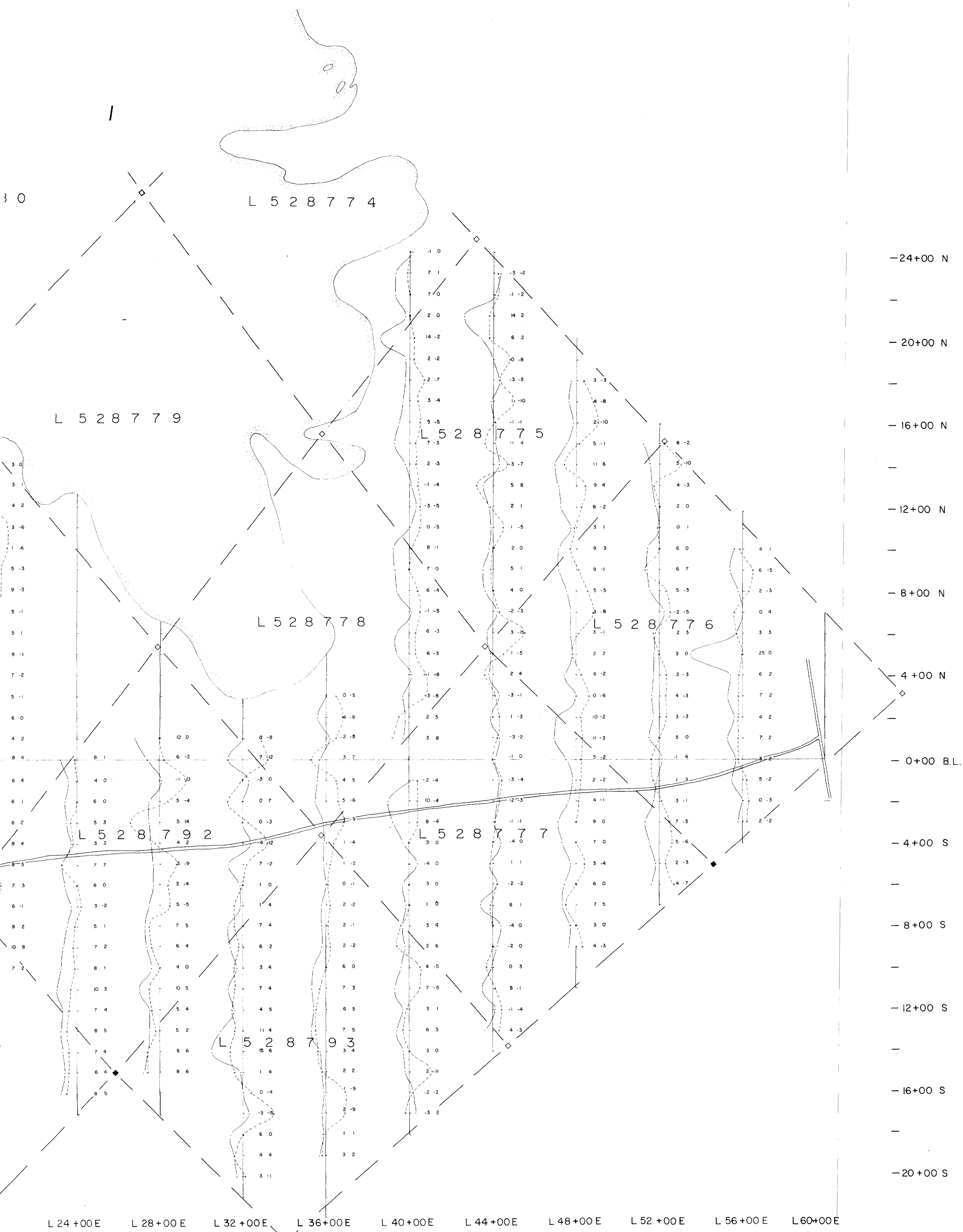


INDEX MAP
 1:50,000



LOCATION MAP
 1:2,000,000

NUFORT RESOURCES INCORPORATED			
	BORDER GROUP	DRAWN BY: R.G., D.L.	DATE: MAY 1981
	MAX MIN II	TRACED BY: M.E.L.	DATE: JUNE 1981
	HORIZONTAL LOOP SURVEY	N.T.S. 32-D-12	APPROVED BY:
444 herz		W.G. WAHL LTD.	SCALE: 1" = 200'
		DWG. No.	5b

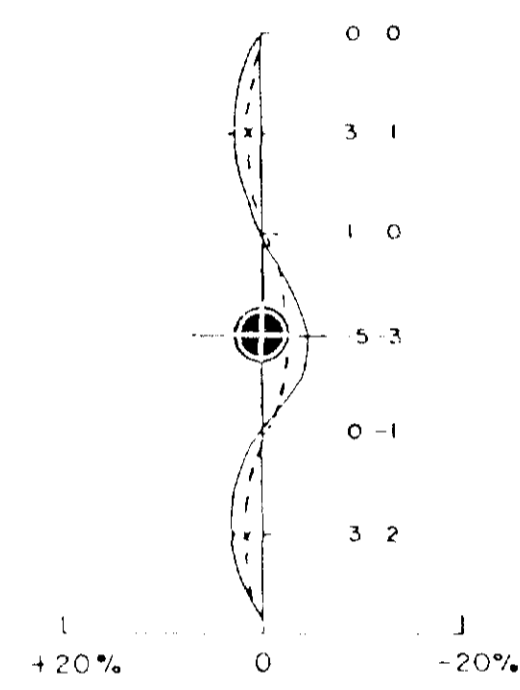


-24+00 N
 -
 -20+00 N
 -
 -16+00 N
 -
 -12+00 N
 -
 -8+00 N
 -
 -4+00 N
 -
 0+00 B.L.
 -
 -4+00 S
 -
 -8+00 S
 -
 -12+00 S
 -
 -16+00 S
 -
 -20+00 S

LEGEND

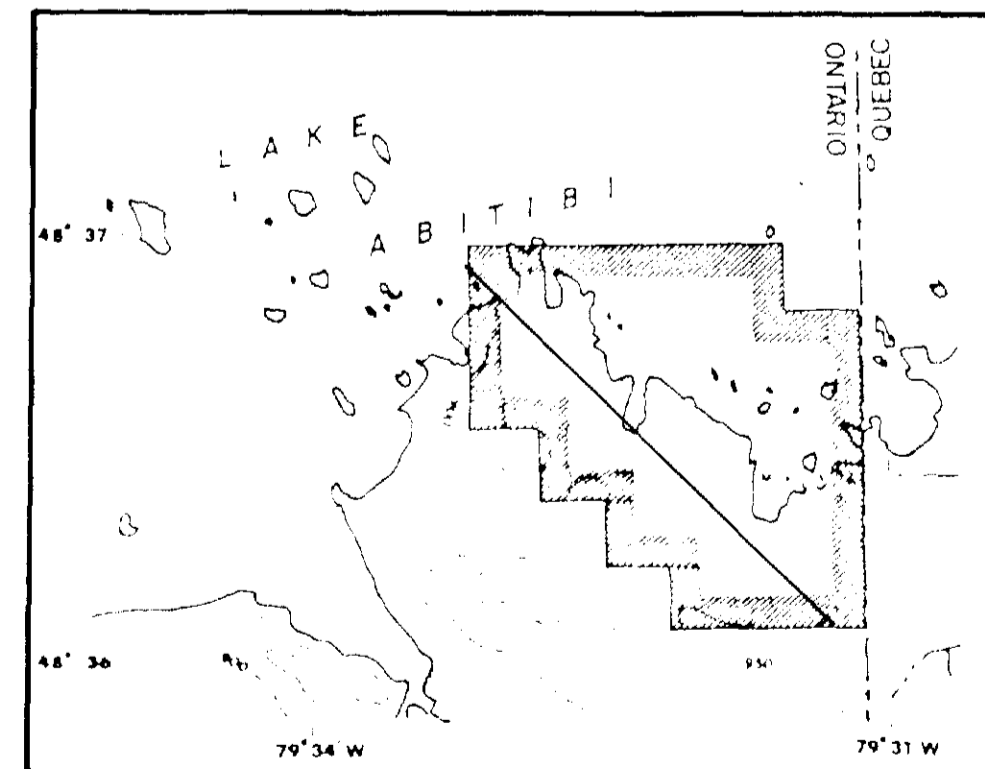
- - - - - In-Phase
- - - - - Quadrature
- ⊕ Conductor Axis

Scale 1" = 200'

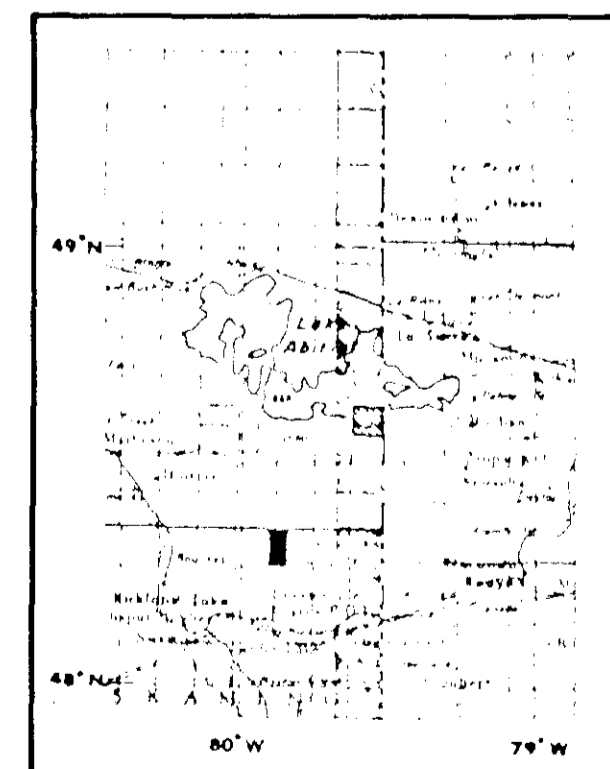


Tx or Rx 200' Rx or Tx
 Tx-Rx Separation

- EXISTING CLAIM POSTS
- ASSUMED CLAIM POSTS
- - - CLAIM LINE
- ~ SHORE LINE
- ROAD



INDEX MAP
 1:50,000



LOCATION MAP
 1:2,000,000

NUFORT RESOURCES INCORPORATED			DRAWN BY: R.G. D.L. DATE: MAY 1981 CHECKED BY: M.E.L. DATE: JUNE 1981 TITLE: 32-D-12 APPROVED BY:
BORDER GROUP MAXMIN II HORIZONTAL LOOP SURVEY 1777 herz		SCALE: 1" = 200' SHEET NO. 5	