



42A05NE0011 2.3045 GODFREY

COMINCO

010

EXPLORATION

CLAIM NOS.

453694 - 453697
453734 - 453737
479501 - 479502
480304 - 480307
480314
508518 - 508523
508700 - 508703
516144 - 516151
522048
522253 - 522255
525966 - 525969

EASTERN DISTRICT

NTS: 42-A-5

RECEIVED

SEP 25 1979

MINING LANDS SECTION

ASSESSMENT REPORT

ALLERSTON OPTION

BRISTOL PROJECT, 1979

SEPTEMBER 14, 1979

K.N. HENDRY
R.B. LORTIE

COMINCO LTD.

Exploration

Eastern District

NTS: 42-A-5

ASSESSMENT REPORT

ALLERSTON OPTION

BRISTOL PROJECT

September 14, 1979

K.N. HENDRY
R.B. LORTIE

1. SUMMARY

A combined magnetic and horizontal loop EM survey over the Bristol Property near Timmins, Ontario failed to record significant EM conductors. Magnetic features striking through the property slightly west of north probably are diabase dikes.

2. INTRODUCTION

This report pertains to a combined magnetic and horizontal loop EM survey carried out in Godfrey and Bristol Townships, Timmins area, Ontario by Geoex Limited during July and August 1979. Approximately 65 Kilometers of EM and 72 Kilometers of magnetics was measured.

The purpose of the survey was to evaluate the property for base-metal potential.

3. INSTRUMENTS AND PROCEDURES

The magnetic data were obtained with a Geometrics G-816 proton precession magnetometer, measuring total field. Corrections for diurnal were made by standard looping techniques using the baseline stations as base stations. Readings were obtained at 25 metre intervals. Reading accuracy would be ± 1 gamma.

The horizontal loop EM data was collected with an Apex Max Min II with a 100-metre coil separation. Readings were obtained at 25-metre intervals with two frequencies measure, 444 hertz and 1777 hertz. Reading accuracy would be better than $\pm 1\%$ on either phase.

4. DATA PRESENTATION

The magnetic data is plotted in plan form and contoured at 50 gamma intervals.

The EM results are plotted in profile form along the appropriate survey line. The inphase and quadrature information are on one map sheet for each frequency. The profile scale is 1 centimeter represents 10%. The small amount of work

carried out at 150-metre coil spacing was plotted with symbols different from those used for the 100-metre coil spacing data.

The horizontal scale for all sheets is 1:2500.

5. GEOLOGY

Archean volcanic rocks in north Bristol Township form the margin of the major felsic volcanic eruptive complex centred on the townships of Godfrey and Turnbull and extending into Robb and Jamieson townships. The Allerston claims under option to Cominco cover a thick succession of rhyolitic volcanic rocks including: massive, cherty quartz-eye porphyry; pyroclastic breccias and coarse lapillistones; crystal tuffs; and lapilli tuffs. Banded cherts are locally interbedded with cherty rhyolites and lapilli tuffs. Shear fractures in the volcanic strata strike 065° - 090° , and are sensibly parallel to primary bedding. South of McDonnell Lake, the felsic volcanics are strongly sheared and altered (sericite-carbonate). Only very minor occurrences of (iron) sulphides have been found on the property.

South of Godfrey Lake, the volcanic strata are intruded by a body of fine-grained dacitic-to-andesitic quartz-feldspar porphyry. Matachewan-type diabase dikes, striking north-northwest, cut all other rock types.

R.B.L

6. DISCUSSION OF RESULTS

The horizontal loop EM survey was completely lacking in significant base metal-type of anomalies. The response was seldom different than normal background variation. The larger coil separation was attempted on lines 8E and 9E south of the baseline based on a quadrature response with the 100 metre coil separation survey. Essentially no inphase response was noted at either coil separation.

The lack of response is not due to insufficient depth penetration as outcrop is found and magnetic depth estimates of bedrock surface suggest less than 20 metres of overburden in most areas.

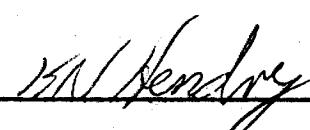
The magnetic survey located several narrow diabase dikes trending slightly west of north. These features are: 1/ just west of Godfrey Lake, 2/ along lines 7+00 E, 10+00 E, and 11+00 E, east of McDonnell Lake and, 3/ along lines 30+00 E and 31+00 E. The dikes extend beyond the property as can be seen on aeromagnetic map 42-A-5h and Ontario Compilation Preliminary series #639.

The area is located within felsic volcanics which appear, between the dikes to be magnetically featureless. Intermediate intrusives are found south of Godfrey lake on lines 11W, 12W, between 14+00 N and 16+00 N.

7. CONCLUSIONS

The lack of EM conductors on this property suggests that within the depth penetration of the instruments used, metallic sulphides would not be found in significant quantities.

Submitted By:


K.N. HENDRY

Geophysicist, Exploration
Eastern District

Submitted By:


R.B. LORTIE
Geologist, Exploration
Eastern District

KNH/bw

Distribution:

Vancouver (1)
Toronto (1)
Geophysics (1)
Government (1)

GEOPHYSICAL - GEOLC
TECHNICAL DA

42A05NE0011 2.3045 GODFREY

900

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 HORIZONTAL LOOP EM, MAGNETOMETER

Township or Area GODFREY, BRISTOL TWSP

Claim holder(s) COMINCO LIMITED

Author of Report K.N. HENDRY/R.B. LORTIE

Address C/O COMINCO LTD. Suite 1700, 120 Adelaide St. W.

Covering Dates of Survey JUNE 25 to August 30, 1979
(linecutting to office)

Total Miles of Line cut 72 Km/44.6 miles.

MINING CLAIMS TRAVESED
List numerically

P	453694-453697.....
(prefix)	(number)
P	453734-453737.....
	479501-479502.....
	480304-480307.....
	480314.....
	508518-508523.....
	508700-508703.....
	516144-516151.....
	522048.....
	522253-522255.....
	525966-525969.....

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	40
--Magnetometer	20
--Radiometric	
--Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)Magnetometer Electromagnetic Radiometric
(enter days per claim)DATE: September 21/79 SIGNATURE: K.N. Hendry
Author of Report

PROJECTS SECTION

Res. Geol. _____ Qualifications 63.2734+Previous Surveys L.D. on this file

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

If space insufficient, attach list

TOTAL CLAIMS 40

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 288 Number of Readings 288/SURVEY
Station interval 25 metres
Line spacing 100 metres
Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument Geometrics G-816 Proton Precession
Accuracy - Scale constant ± 1 gamma
Diurnal correction method looping
Base station location Base line stations

ELECTROMAGNETIC

Instrument Apex Max Min 11
Coil configuration Horizontal loop
Coil separation 100m (150m)
Accuracy $\pm 1\%$
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 444 Hz 1777 Hz
(specify V.L.F. station)
Parameters measured Inphase Quadrature

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION -- RESISTIVITY

Instrument _____
Time domain _____ Frequency domain _____
Frequency _____ Range _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

Enclosure Slip



To MR. E.F. ANDERSON, DIRECTOR
LAND MANAGEMENT BRANCH

RECEIVED

MAR 25 1980

Please
Note

Approve

Comment

For
Discussion

For
Necessary Action

Return

Forward

Retain

MINING LANDS SECTION

Remarks

Enclosed, you will find the Geophysical (EM and Mag) Surveys Mining Claims P.453694 et al. Bristol and Godfrey Townships 2.3045. All the claims have been signed by K.N. HENDRY.

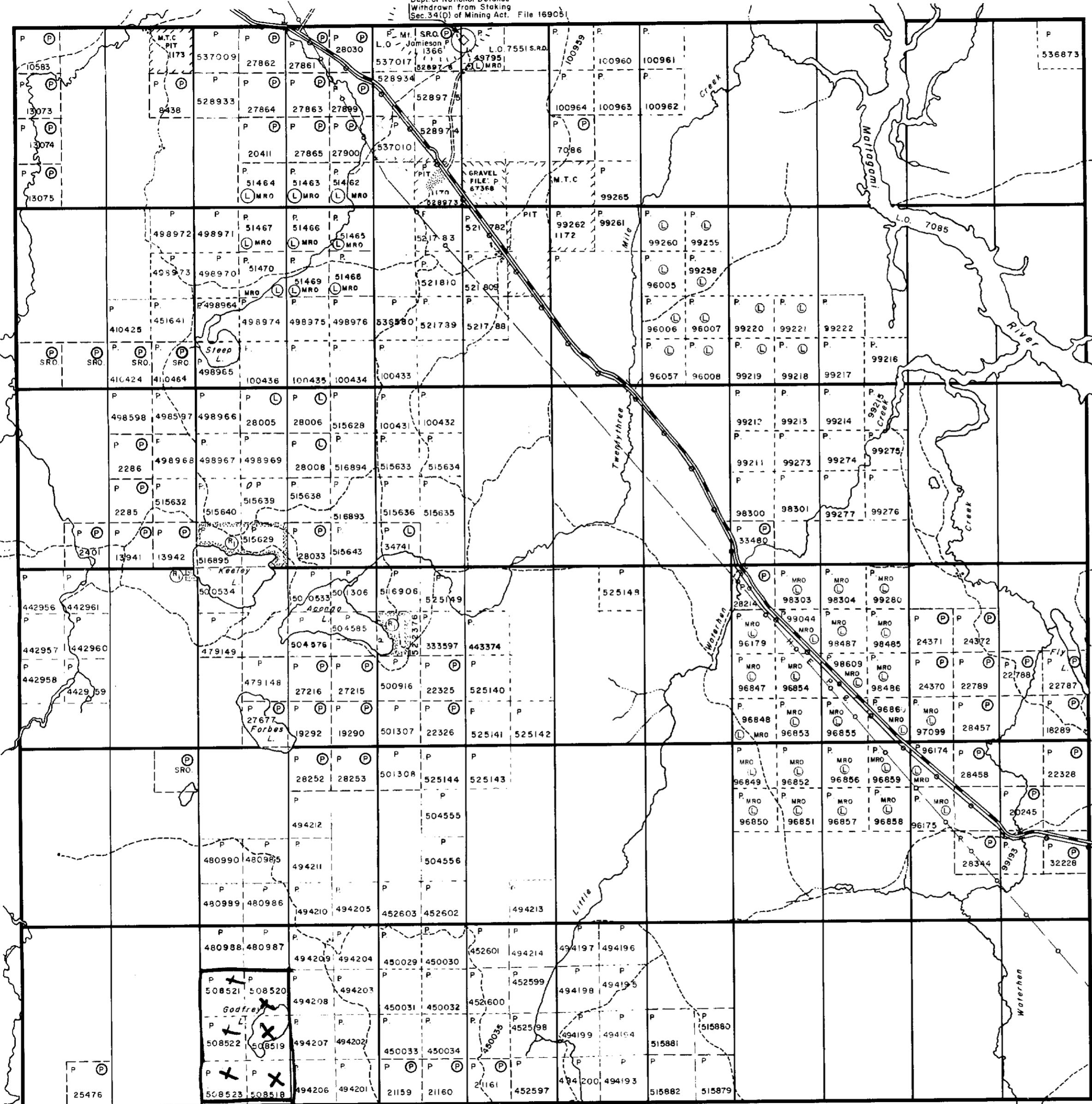
From B. Walters

Date March 24, 1980

210-1510

Jamieson Twp. (M.288)

op Radar Sta.
Dept. of National Defence
Withdrawn from Staking
Sec 34(D) of Mining Act File 1698



12 11 10 9 8 7 6 5 4 3 2 1

Bristol Twp. (M.264)

THE TOWNSHIP
OF

GODFREY

**DISTRICT OF
COCHRANE**

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- | | |
|-----------------------|--------|
| PATENTED LAND | (P) |
| CROWN LAND SALE | C.S. |
| LEASES | (L) |
| LOCATED LAND | Loc. |
| LICENSE OF OCCUPATION | L.O. |
| MINING RIGHTS ONLY | M.R.O. |
| SURFACE RIGHTS ONLY | S.R.O. |
| ROADS | ===== |
| IMPROVED ROADS | ===== |
| KING'S HIGHWAYS | ===== |
| RAILWAYS | ===== |
| POWER LINES | ===== |
| MARSH OR MUSKEG | ===== |
| MINES | ===== |
| CANCELLED | C. |
| PATENTED S.R.O. | (C) |

NOTES

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

Flooding rights on either side of the Mattagami
to H.E.P.C.

This township lies within the Municipality
of CITY of TIMMINS.

Reservations:

(R) - Reserved for recreational purposes under Sec. 3 PLA.
File 188543.

DATE OF ISSUE
SEP 25 1979
SURVEYS AND MAPPING
BRANCH

PLAN NO. M.284

ONTARIO

ONTARIO
MINISTRY OF NATURAL RESOURCES

Godfrey Twp. - M.284

**THE TOWNSHIP
OF**

BRISTOL

**DISTRICT OF
COCHRANE**

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS _____
" , SURFACE RIGHTS ONLY _____
" , MINING RIGHTS ONLY _____
LEASE, SURFACE AND MINING RIGHTS _____
" , SURFACE RIGHTS ONLY _____
" , MINING RIGHTS ONLY _____
LICENCE OF OCCUPATION _____

ROADS

- IMPROVED ROADS
KING'S HIGHWAYS
RAILWAYS
POWER LINES
MARSH OR MUSKEG
MINES
CANCELLED

NOTES

400' Surface Rights Reservation along
the shores of all lakes & rivers

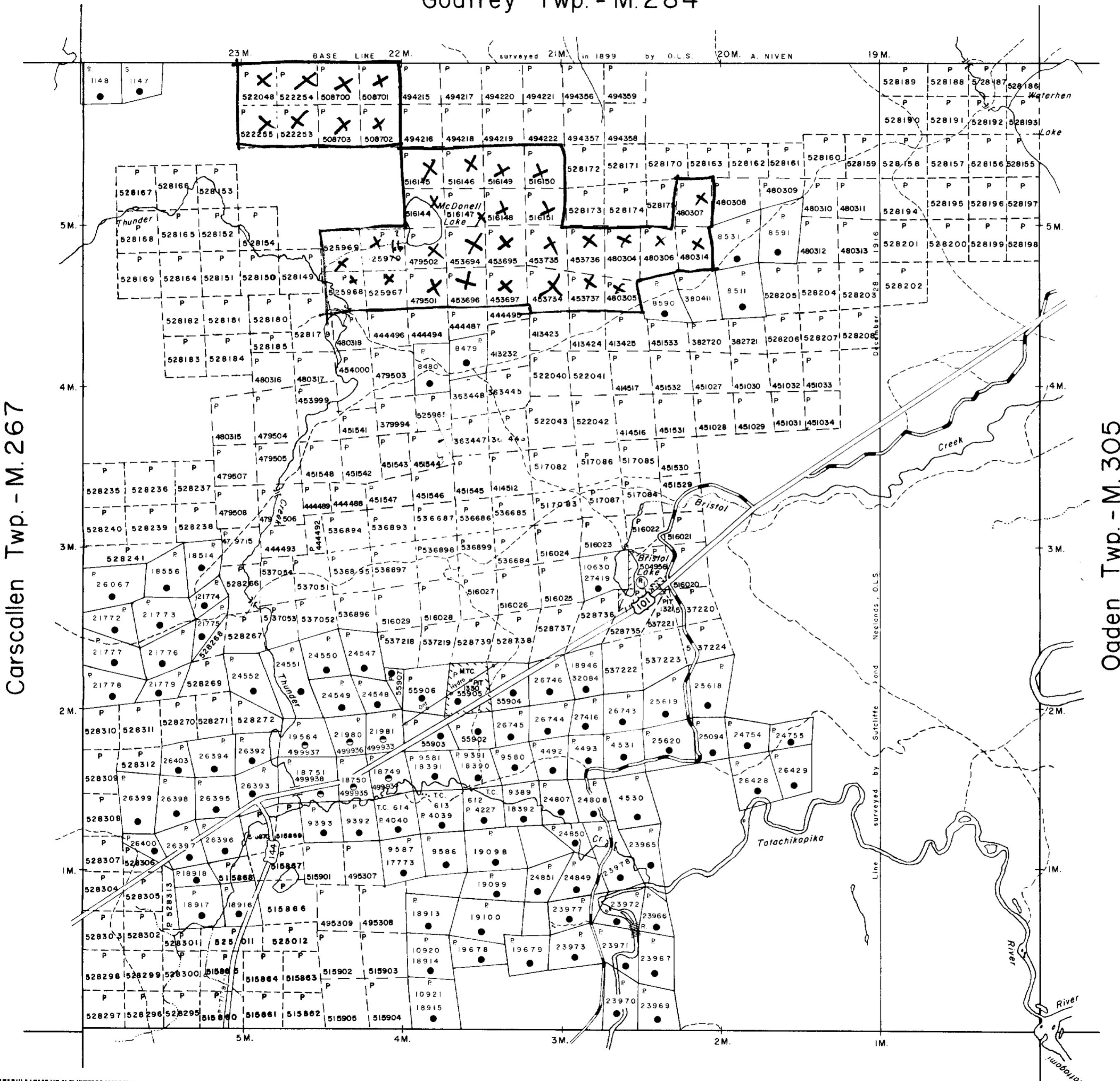
**Areas withdrawn from staking under Section
43 of the Mining Act (R.S.O. 1970).**

DATE OF ISSUE
SEP 25 1979
SURVEYS AND MAPPING
BRANCH

This township lies within the Municipality of
the CITY of TIMMINS.

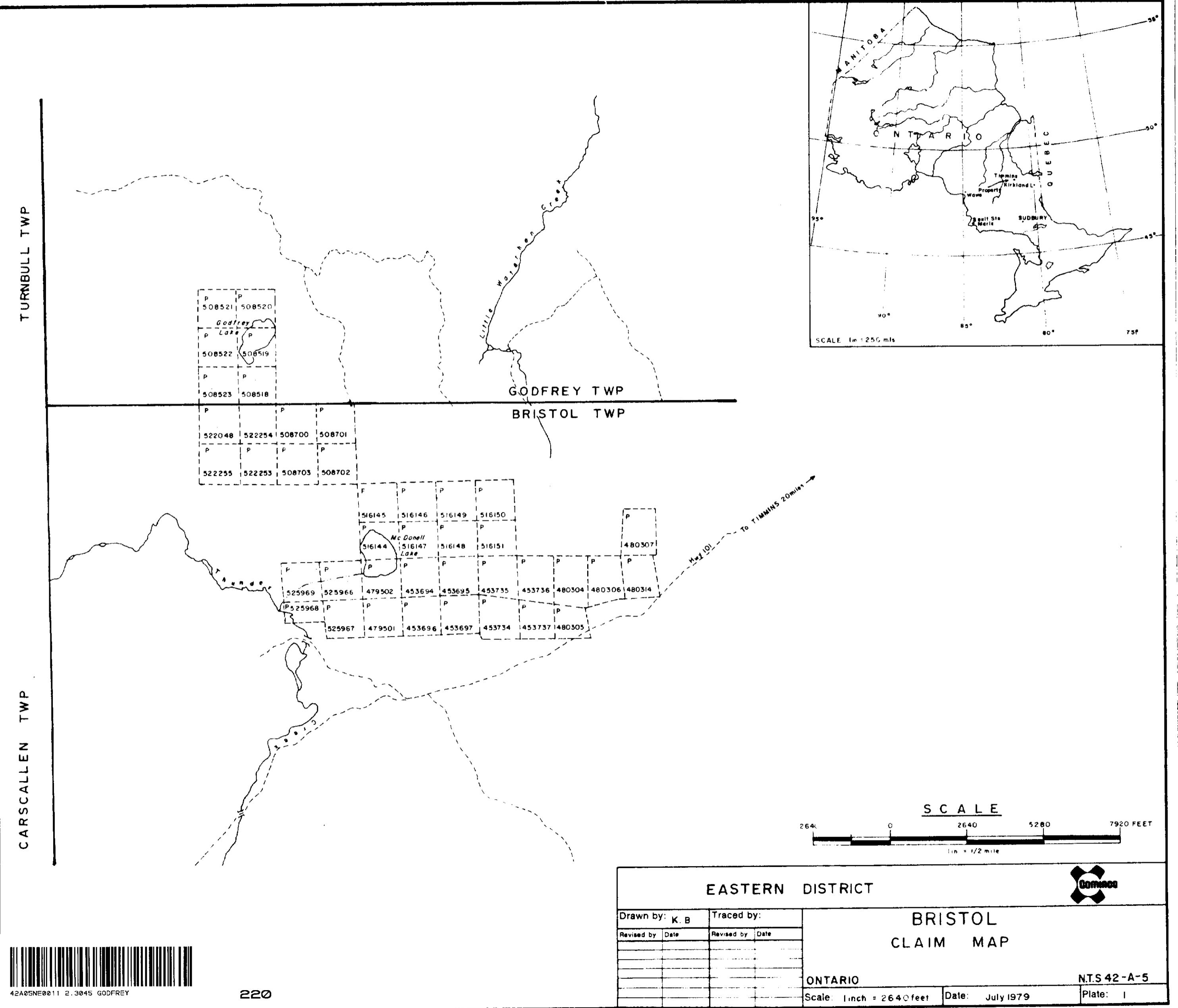
PLAN NO. M-264

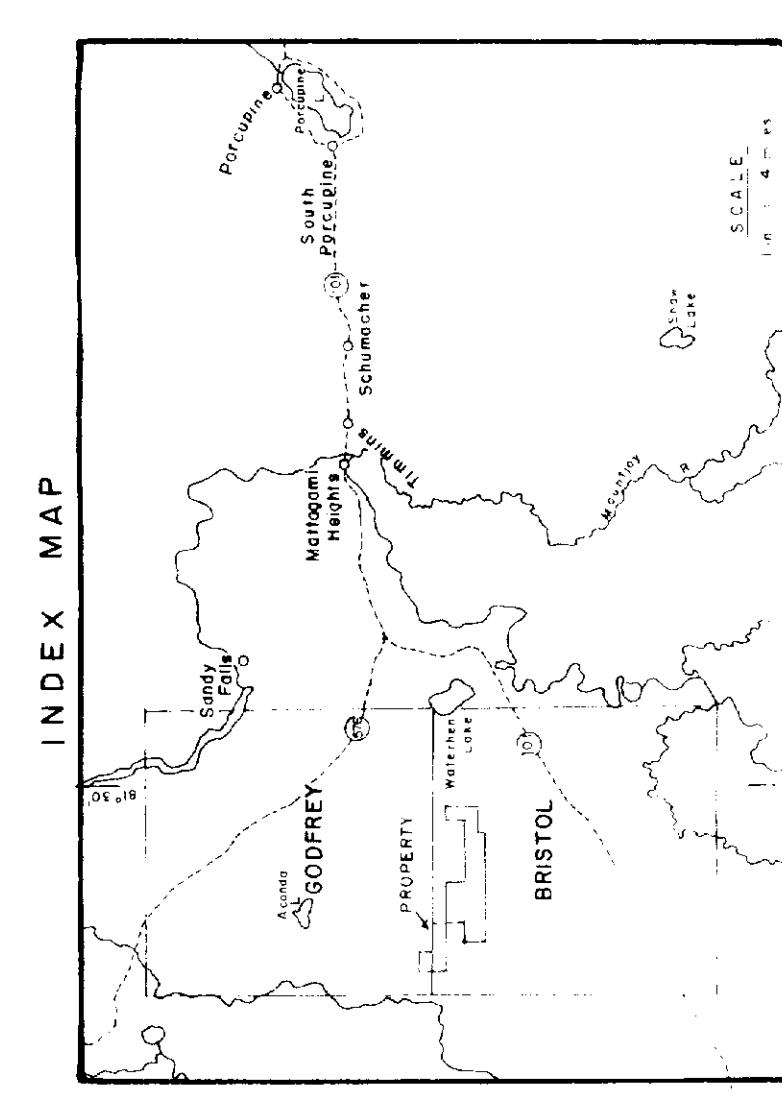
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



Thorneloe Twp. - M. 313







INDEX MAP

EASTERN DISTRICT

Traced by: K.B.

Drawn by:

L E G E N D

INSTRUMENT: APEX MAXMIN II
FREQUENCY: 4.44 Hz
SEPARATION: 100 m
IN-PHASE
QUADRATURE
PROFILE SCALE: 1 cm = 10%

6N -
5N -
4N -
3N -
2N -
1N -
BL -
-S -
-2S -
-3S -
-4N -
-5N -
-6N -

L11+00E
L12+00E
L13+00E
L14+00E
L15+00E
L16+00E
L17+00E
L18+00E
L19+00E
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
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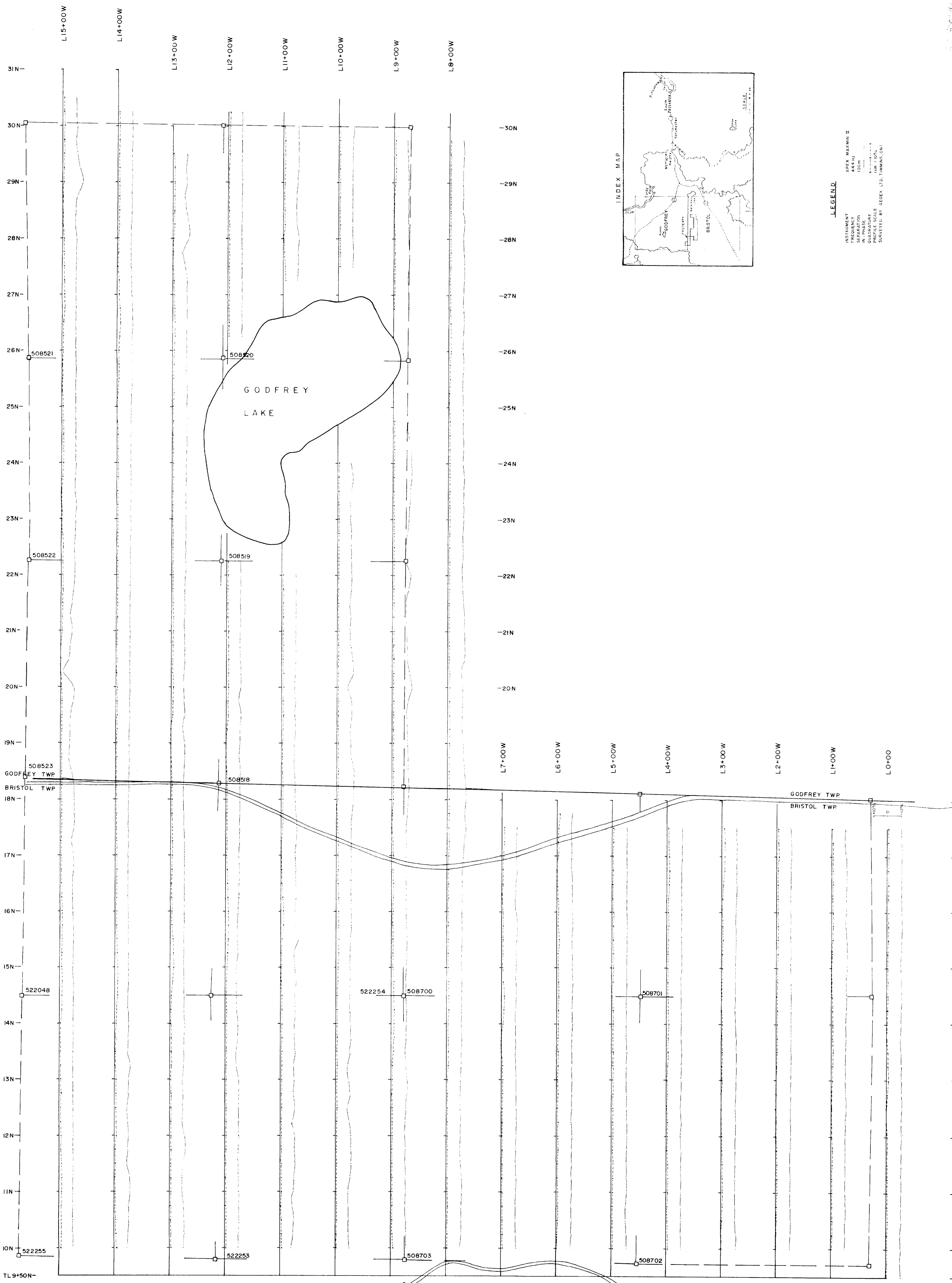
EASTERN DISTRICT			
Drawn by:	Traced by: K.B	OPTION	
Revised by	Date	Revised by	Date
HORIZONTAL LOOP EM SURVEY			
ONTARIO		TWPS.	
4.44 Hz —		AND GODFREY	TWPS.
100m c.s.		N.T.S.	
Scale: 1:2500	Date: August 1979		Plate: EM-79-

11

00+117

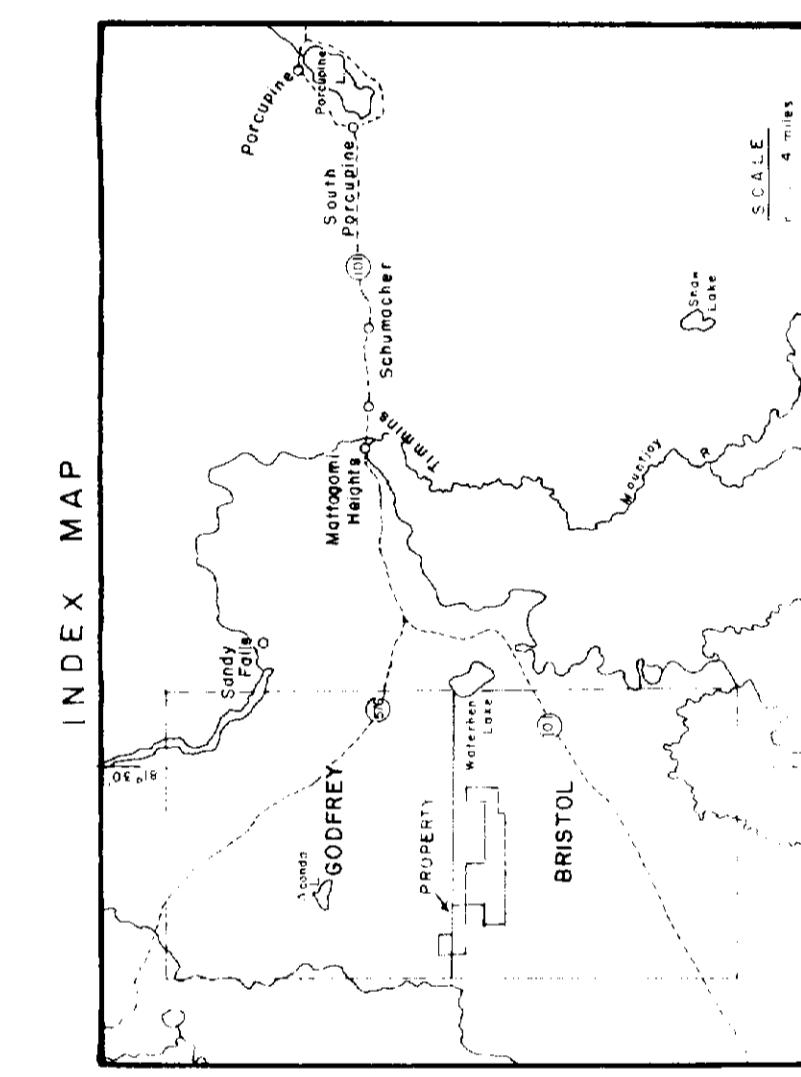
12/20/2011 2:30:45 GODFREY



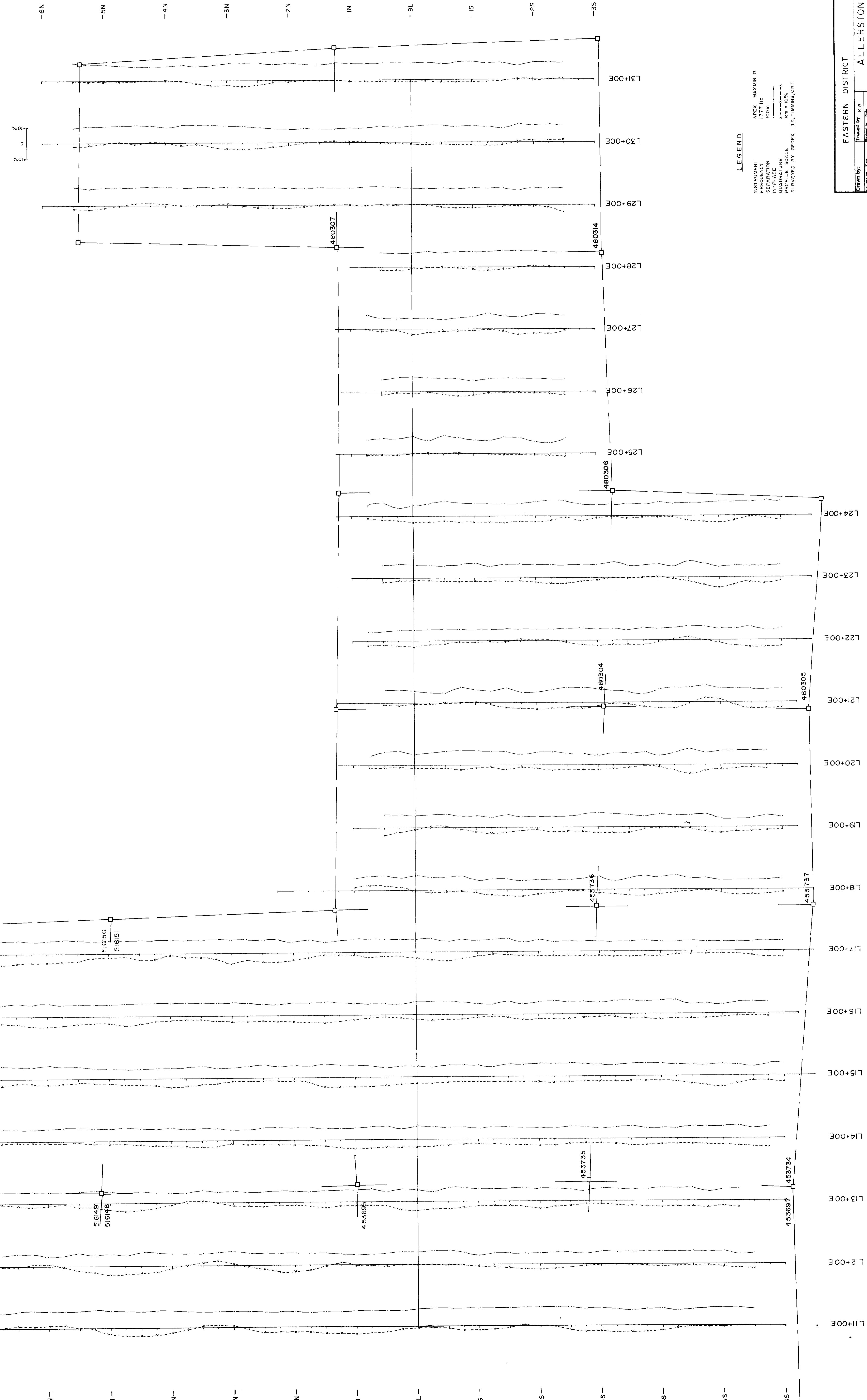


EASTERN DISTRICT	
Surveyed By	Transferred by
Name of Surveyor	Name of Transferee
Date	Date
ALLERTON OPTION	
HORIZONTAL LOOP EM SURVEY	
ONTARIO	
BRISTOL AND GODFREY TWP'S	
Scale 1:25000	Scale 1:10000
Page No. 9	Page No. 9
Date August 1979	Date August 1979

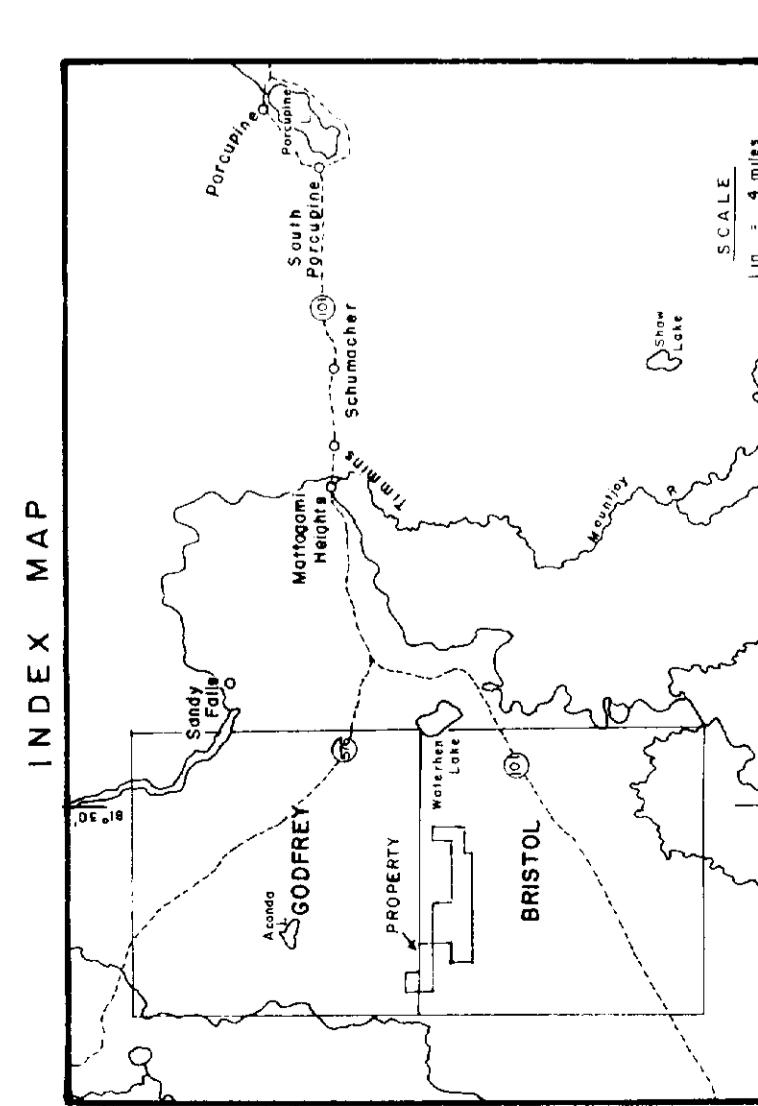



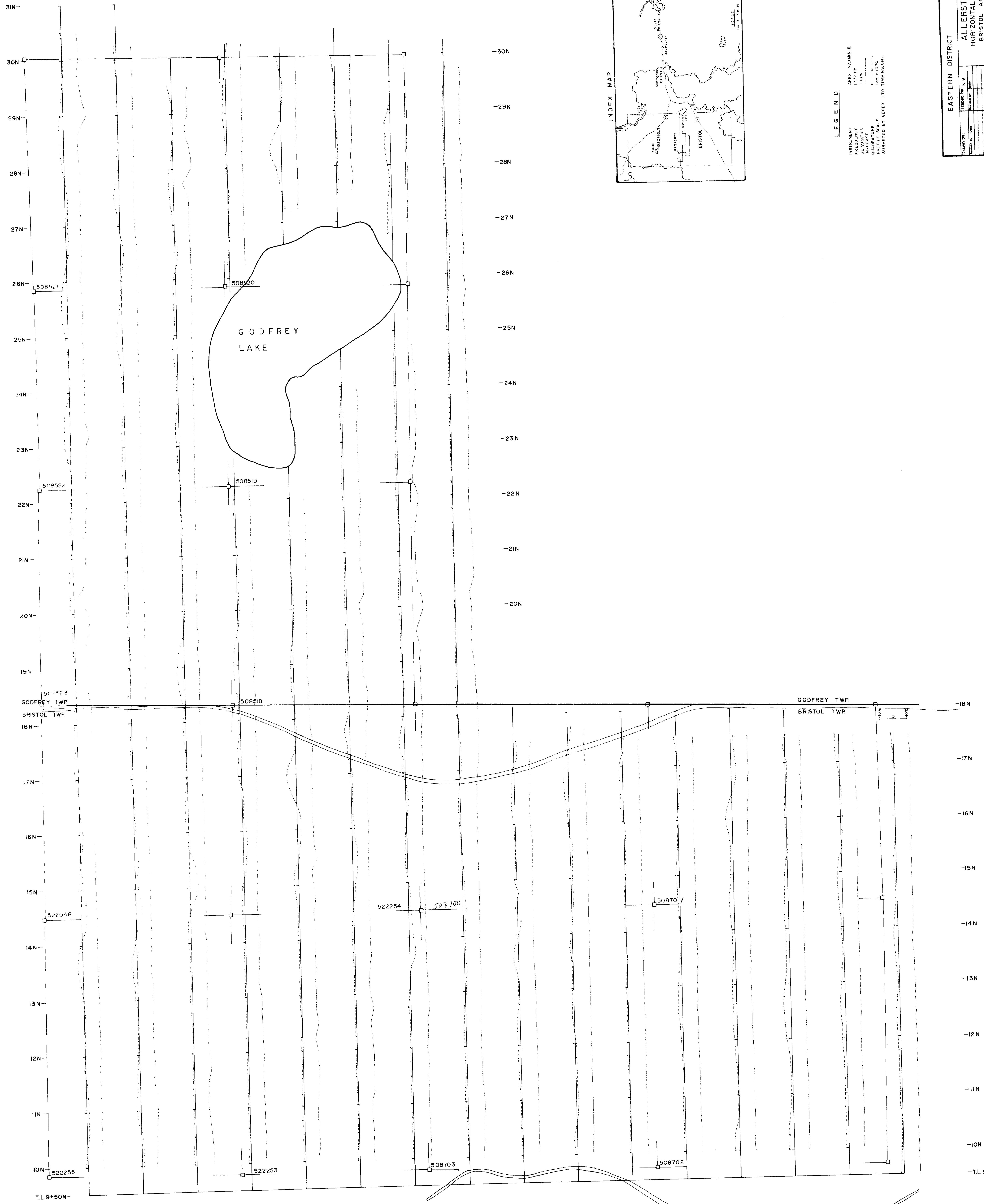



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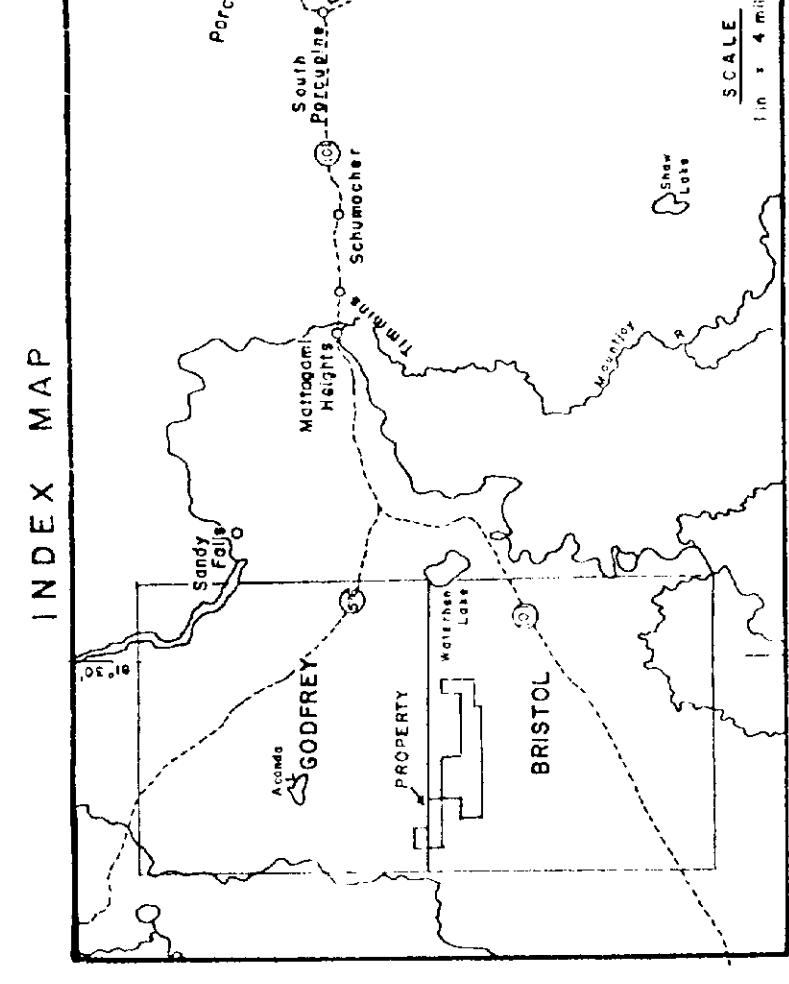
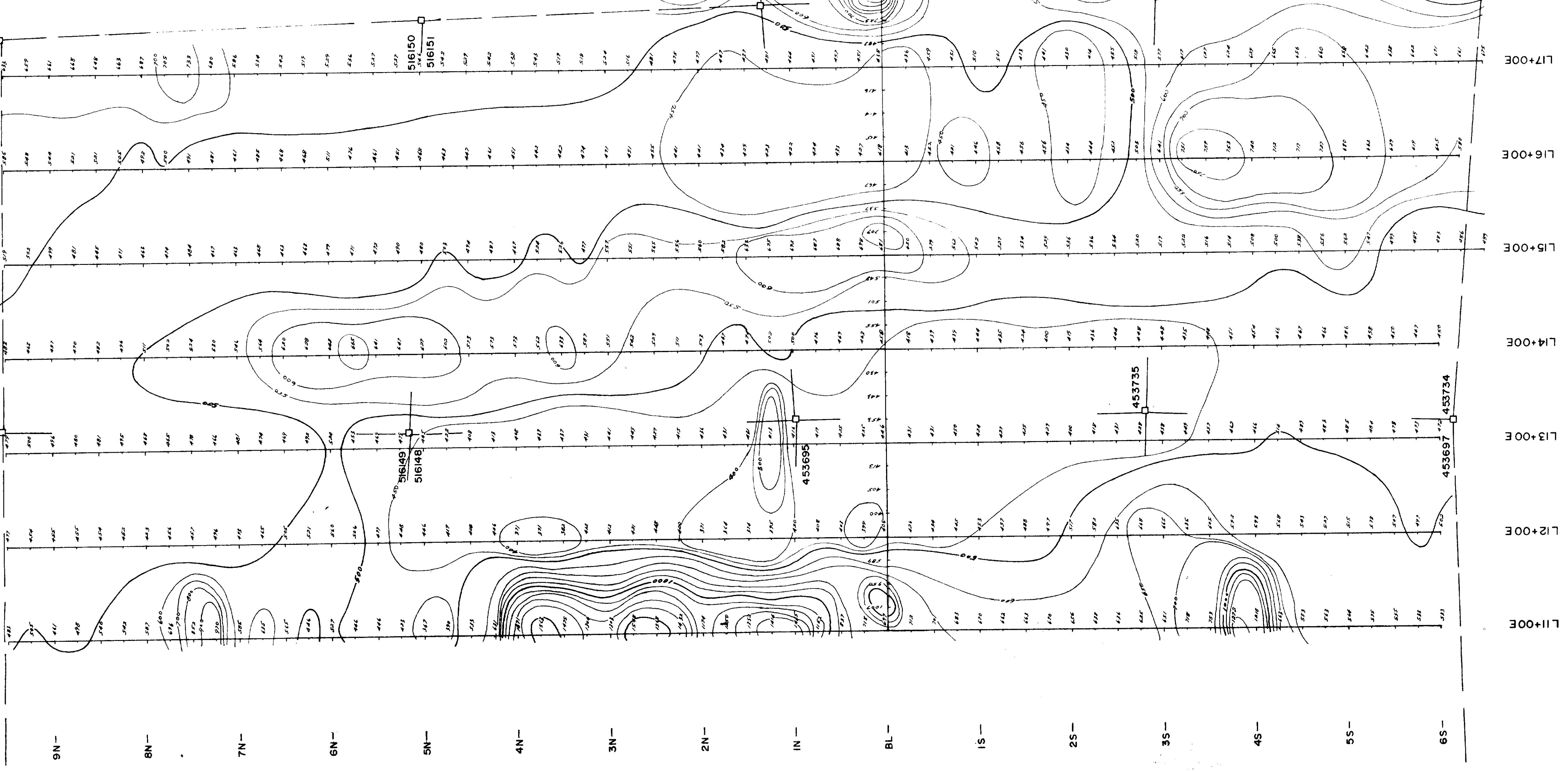
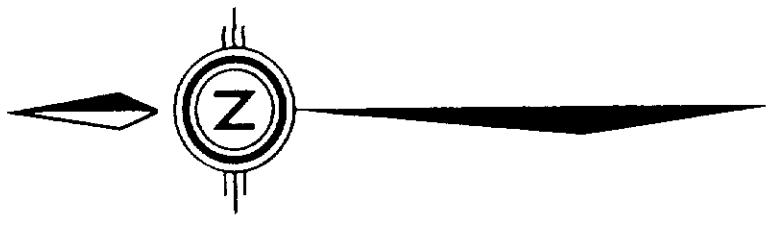


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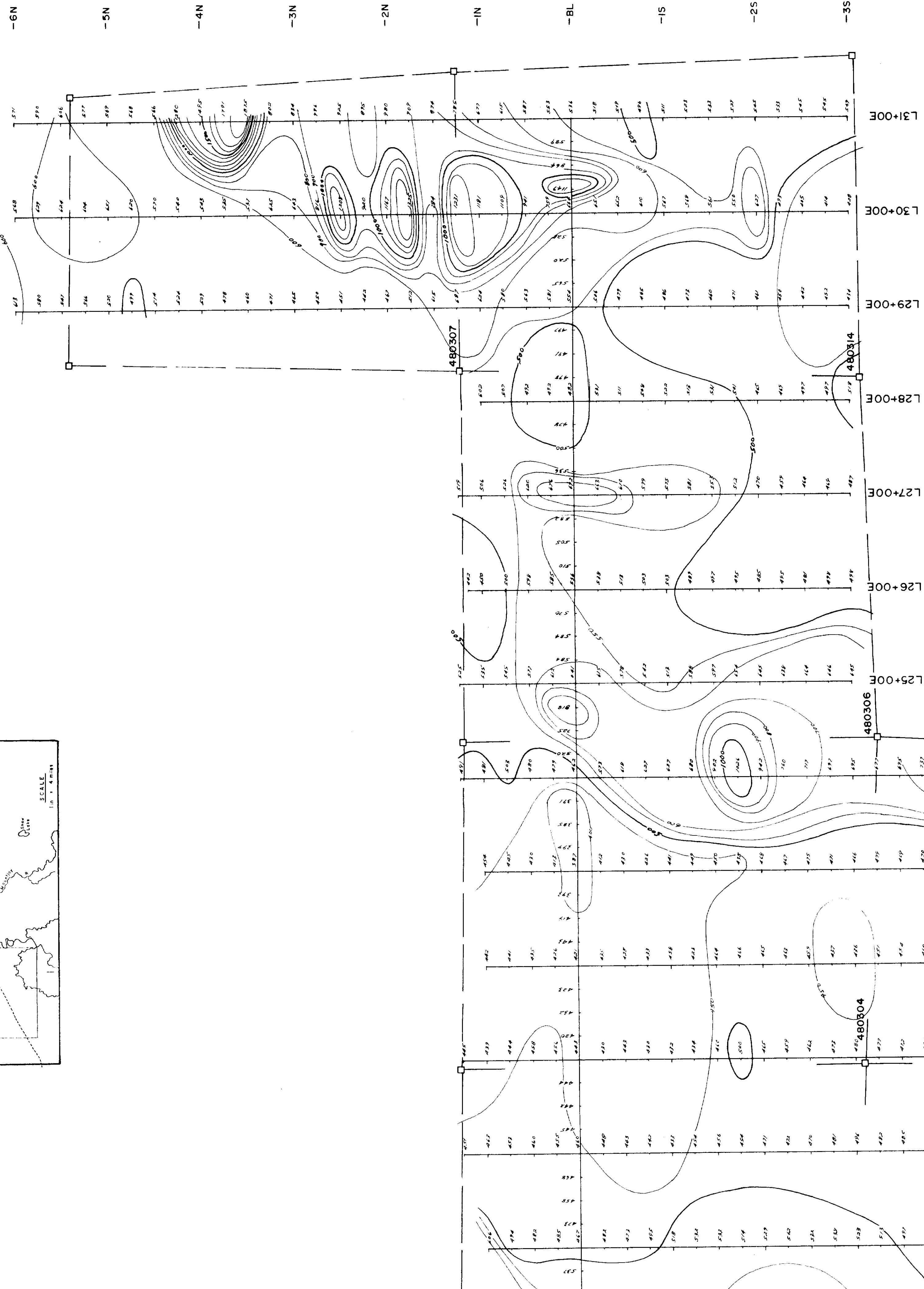


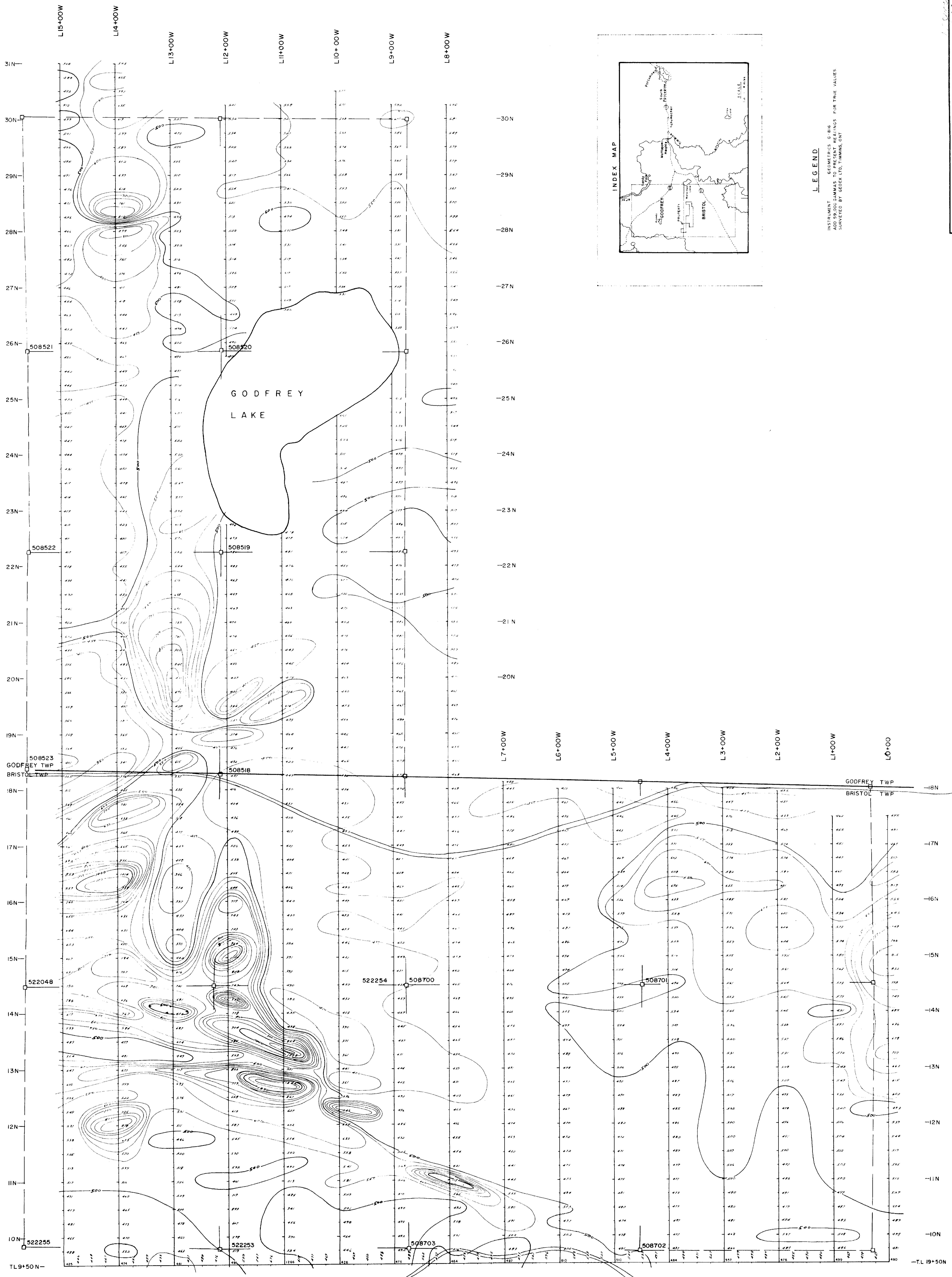






INDEX MAP





EASTERN DISTRICT

