



41010NW0010 2.8451 GREENLAW

010

GEOCHEMICAL REPORT

ON CLAIMS

553770 - 553780 INCL.

SITUATED IN THE

PROCUPINE MINING DIVISION

GREENLAW TOWNSHIP,

ONTARIO

HELD BY

GRANGES EXPLORATION LTD.
900 - 625 HOWE STREET
VANCOUVER, B. C.
V6C 2T6

RECEIVED

SEP 20 1985

MINING LANDS SECTION

SEPTEMBER 5, 1985

G. W. ZBITNOFF
(J. J. WILLIAMS)



41010NW0010 2.8451 GREENLAW

010C

TABLE OF CONTENTS

| | PAGE |
|--------------------------------|------|
| INTRODUCTION..... | 1 |
| GENERAL GEOLOGY..... | 1 |
| GEOCHEMICAL SURVEY..... | 1 |
| RESULTS & RECOMMENDATIONS..... | 2 |
| EXPENDITURES..... | 3 |
| AUTHORS QUALIFICATIONS..... | 4 |

ENCLOSURES

1 PLAN SHOWING GEOCHEMICAL SAMPLE LOCATIONS

SCALE 1:4800
1" = 400'

INTRODUCTION

Claims 553770 to 553780 incl. are situated in the Greenlaw Township approx. 80 miles southwest of Timmins, Ontario.

Access to the area is provided via a 4 x 4 wheeled vehicle, road leaving from the Kormack station on the CPR line.

These claims are held by Granges Exploration Ltd. of Vancouver, B. C.

GENERAL GEOLOGY

The property lies on the Swayze Greenstone belt, which is a broad band of east-west striking Keewatin-type greenstones which have been extensively explored for gold. This band of volcanics is made up of acid to basic volcanics and associated sediments similar in composition to those in which massive base-metal sulphides have been discovered through the Precambrian of Canada.

GEOCHEMICAL SURVEY

A total of 339 soil samples were collected by E.W.G. Fluskey, of Granges Exploration Ltd., during the period July 15th to July 26th, 1985. The sampling was carried out over the area of a previously cut grid - Grid # 48.

Where possible, the sample was taken from the 'B' horizon, however in some cases, the samples were of other material. The samples collected were assayed for Cu, Pb, Zn, Au and Ag.

The samples were obtained at an average depth of .3 meters with the use of a spade or auger. The soil samples were then placed in Kraft soil envelopes and delivered to Swastika Laboratories Ltd., P.O. Box 10, Swastika, Ontario. The samples are dried for approximately 16 hours at 95°C and sieved to -80 mesh. A 0.5 gram sample is digested with diluted aqua regia in a hot water bath for one hour, and then diluted with demineralized water.

RESULTS & RECOMMENDATIONS

No interesting anomalies were revealed by the survey; on this basis there are no recommendations for the area. Previous work has located sub-economic silver mineralization and good zinc grades. The claims are presently being subjected to a legal survey.

George W. Hoff

RESULTS & RECOMMENDATIONS

No interesting anomalies were revealed by the survey; on this basis there are no recommendations for the area. Previous work has located sub-economic silver mineralization and good zinc grades. The claims are presently being subjected to a legal survey.

George W. Hoff

EXPENDITURES

| | | |
|--------------------|---------------|-------------------|
| SALARY | \$ 1,110.00 | (12 days @ 92.50) |
| ASSAYS | 5,051.10 | |
| BOARD & FOOD | 300.00 | (12 days @ 25.00) |
| REPORT PREPARATION | 100.00 | |
| ADMINISTRATION | <u>656.10</u> | |
| TOTAL | \$ 7,217.10 | |

George W. Hoff

GRANGES EXPLORATION LTD.

STATEMENT OF QUALIFICATIONS

Name: Zbitnoff, George Wm.

Profession: Geologist

Professional
Associations:

- Member of the Association of Professional Engineers of the Province of Manitoba
- Member of the Association of Professional Engineers of the Province of British Columbia since 1973.
- Member of the Canadian Institute of Mining and Metallurgy.

Experience:

- Pre graduation experience in geology with the Department of Mineral Resources of Saskatchewan.
- Two and a half years, field geologist with Hudson Bay Exploration and Development, Central Canada.
- Six years, field and resident geologist with Noranda Exploration Ltd., Central Canada.
- Fourteen years geologist and Vice-President at Granges Exploration Ltd. Vancouver, B. C.

- Active geological experience in all provinces of Canada and parts of the United States and Mexico.





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

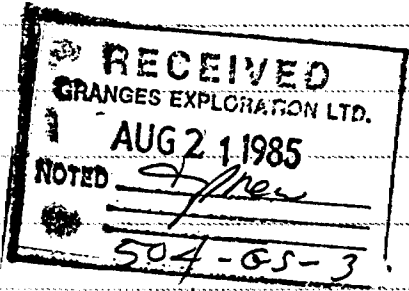
11555

SOLD TO

Granges Exploration Limited
900 - 625 Howe St.
Vancouver, British Columbia
V6C 2T6

SHIPPED TO
SAME

1.5% late charge over 30 days
(annual rate 18%)

| DATE | SHIPPED VIA | FED. LICENCE NO. | PROV. LICENCE NO. | YOUR ORDER NO. | OUR ORDER NO. | TERMS | SALESMAN |
|---|------------------------|------------------|-------------------|----------------|---------------|--------------------------------|-----------|
| Aug. 16/85 | | | | | | | |
| QUANTITY | DESCRIPTION | | | | | UNIT PRICE | AMOUNT |
| 55 | Au Assays PPB on soil | | | | | \$ 8.50 | \$ 467.50 |
| 55 | Ag Cu Pb Zn Assays PPM | | | | | 5.10 | 280.50 |
| 55 | Sample handling | | | | | 1.30 | 71.50 |
| 10 | Ashing | | | | | | no charge |
| Cert. No. 60671 Aug. 13/85 E. Fluskey | | | | | | | |
|  | | | | | | # 904 \$ 819.54 08/29/85 | |
| Total | | | | | | \$ | 819.50 |





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

11574

SOLD TO

Granges Exploration Limited
900 - 625 Howe St.
Vancouver, British Columbia
V6C 2T6

SHIP TO

SAME

1.5% late charge over 30 days
(annual rate 18%)

| DATE | SHIPPED VIA | FED. LICENCE NO. | PROV. LICENCE NO. | YOUR ORDER NO. | OUR ORDER NO. | TERMS | SALESMAN |
|--|---------------------------------------|------------------|-------------------|----------------|---------------|------------|------------|
| Aug. 16/85 | | | | | | | |
| QUANTITY | DESCRIPTION | | | | | UNIT PRICE | AMOUNT |
| 55 | Au Assays PPB on soil | | | | | \$ 8.50 | \$ 467.50 |
| 55 | Ag Cu Pb Zn Assays PPM | | | | | 5.10 | 280.50 |
| 55 | Sample handling | | | | | 1.30 | 71.50 |
| | Cert. No. 60672 Aug. 15/85 E. Fluskey | | | | | | |
| 55 | Au Assays PPB on soil | | | | | 8.50 | 467.50 |
| 55 | Ag Cu Pb Zn Assays PPM | | | | | 5.10 | 280.50 |
| 55 | Sample handling | | | | | 1.30 | 71.50 |
| | Cert. No. 60673 Aug. 15/85 | | | | | | |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p>RECEIVED GRANGES EXPLORATION LTD. AUG 26 1985 NOTED _____ _____</p> </div> | | | | | | | |
| Total | | | | | | | \$ 1639.00 |





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

11593

SOLD TO

Granges Exploration Limited
900 - 625 Howe Street
Vancouver, British Columbia
V6C 2T6

SHIPPED TO SAME

1.5% late charge over 30 days
(annual rate 18%)

| DATE | SHIPPED VIA | FED. LICENCE NO. | PROV. LICENCE NO. | YOUR ORDER NO. | OUR ORDER NO. | TERMS | SALESMAN |
|--|----------------------------|------------------|-------------------|----------------|---------------|------------|------------|
| Aug. 23/85 | | | | | | | |
| QUANTITY | DESCRIPTION | | | | | UNIT PRICE | AMOUNT |
| 56 | Au Assays PPB on soil | | | | | \$ 8.50 | \$ 476.00 |
| 56 | Ag Cu Pb Zn Assays PPM | | | | | 5.10 | 285.60 |
| 56 | Sample handling | | | | | 1.30 | 72.80 |
| | Cert. No. 60686 Aug. 20/85 | | | | | | |
| | E. Fluskey | | | | | | |
| 59 | Au Assays PPB on soil | | | | | 8.50 | 501.50 |
| 59 | Ag Cu Pb Zn Assays PPM | | | | | 5.10 | 300.90 |
| 59 | Sample handling | | | | | 1.30 | 76.70 |
| | Cert. No. 60687 Aug. 22/85 | | | | | | |
| 59 | Au Assays PPB on soil | | | | | 8.50 | 501.50 |
| 59 | Ag Cu Pb Zn Assays PPM | | | | | 5.10 | 300.90 |
| 59 | Sample handling | | | | | 1.30 | 76.70 |
| | Cert. No. 60688 Aug. 22/85 | | | | | | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p style="font-size: 2em; margin: 0;">ENTERED</p> </div> | | | | | | | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p style="font-size: 1.5em; margin: 0;">0630</p> <p style="font-size: 1.2em; margin: 0;">RECEIVED</p> <p style="font-size: 1.2em; margin: 0;">GRANGES " " "</p> <p style="font-size: 1.2em; margin: 0;">SEP 03 1985</p> <p style="font-size: 1.2em; margin: 0;">NOTED <i>9/11/85</i></p> <p style="font-size: 1.5em; margin: 0;">504-GS-3</p> </div> | | | | | | | |
| Total | | | | | | | \$ 2592.60 |

MOORE BUSINESS FORMS 3 7060E

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
FACTURE / INVOICE ESTABLISHED 1928





41010NW0010 2.8451 GREENLAW

900

Mining Lands Section

File No 28451

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 GEOLOGICAL
 ✓ GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

h.s. lg

A. Hurst
Signature of Assessor

Oct 4/85

Date



Recorded Holder
GRANGES EXPLORATION LTD

Township or Area
GREEN LAW TOWNSHIP

| Type of survey and number of Assessment days credit per claim | Mining Claims Assessed |
|---|---|
| Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>20</u> days Geochemical <u>20</u> days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant. | <p>P 553770-71-72-73-76-77-78-79</p> |

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

| | |
|-----------------------|----------------------|
| <u>10 DAYS CREDIT</u> | <u>5 DAYS CREDIT</u> |
| P 553780 | P 553774-75 |

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

1985 11 28

Your File: 314/85
Our File: 2.8451

Mining Recorder
Ministry of Northern Affairs and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated October 25, 1985
Geological Survey on Mining Claims
P 553770, et al, in Green Law Township

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

SH/mc

cc: Granges Exploration Ltd
Suite 900
625 Howe Street
Vancouver, B.C.
V6C 2T6

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

Resident Geologist
Timmins, Ontario

Encl.



Ministry of
Natural
Resources

Nov. 12/85

1985 10 25

Your File: 314/85
Our File: 2.8451


Mining Recorder
Ministry of Northern Affairs and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

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. R.J. Pichette at 416/965-4888.

Yours sincerely,


S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

J. SH/mc

Encls.

cc: Granges Exploration Ltd
Suite 900
625 Howe Street
Vancouver, B.C.
V6C 2T6

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



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1985 10 25

2.8451/314/85

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 Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

314/85

28451

Oct.
29th

A separate form is
required for each
type of work to be
recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of PORCUPINE Mining Division
I, GRANGES EXPLORATION LTD T489
name of Recorded Holder Prospector's Licence
900-625 HOWE ST, VANCOUVER B.C. V6C 2T6
Post Office Address
do hereby report the performance of 220 days of GEOCHEMICAL
type of work

not before reported to be applied on the following contiguous claims

| Claim No. | Days | Claim No. | Days | Claim No. | Days |
|-----------|-------|-----------|-------|-----------|-------|
| 553770 | 20 | 553771 | 20 | 553772 | 20 |
| 553773 | 20 | 553774 | 20 | 553775 | 20 |
| 553776 | 20 | 553777 | 20 | 553778 | 20 |
| 553779 | 20 | 553780 | 20 | | |
| | | | | | |
| | | | | | |

All the work was performed on Mining Claim (s) 553770 - 553780 incl
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.

For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.

For Compressed Air or Other Power Driven or Mechanical Equipment

Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.

For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.

With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.

For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.

For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

RECEIVED
SEP 16 1985

RECORDED
SEP 16 1985

Date Sept 9th/85
Signature of Recorded Holder or Agent [Signature]

The Mining Act
Certificate Verifying Report of Work

I, George W. SITWOP
900-625 HOWE ST VANCOUVER B.C. V6C 2T6
(Post Office Address)

hereby certify:

1. 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.
2. That the annexed report is true.

Dated Sept 9 19 85
Signature [Signature]

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH.

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) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

2.8451

SS3770 ✓

71 ✓

72 ✓

73 ✓

2

74 $\frac{3}{4}$

75 $\frac{3}{4}$

76 ✓

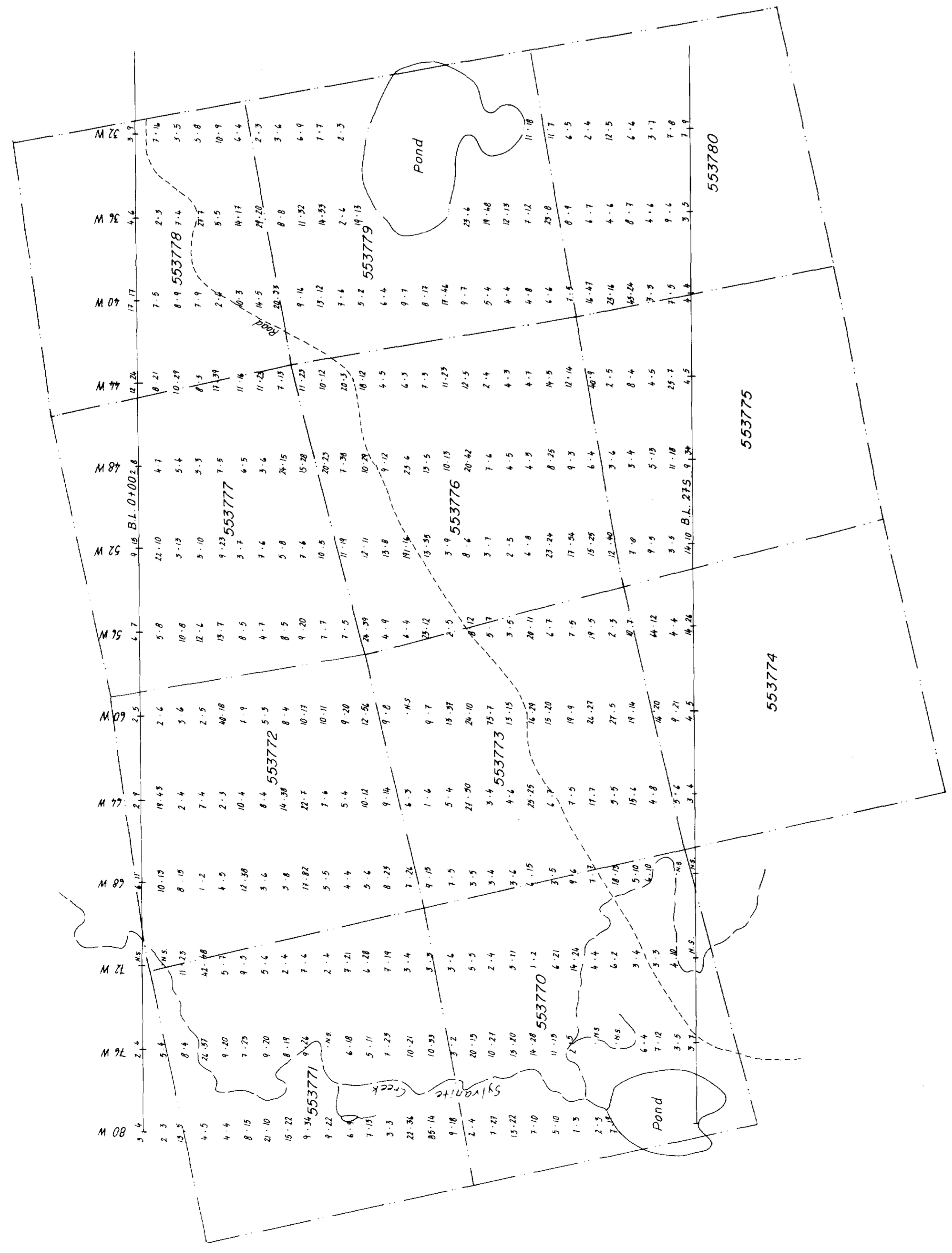
77 ✓

78 ✓

79 ✓

80 $\frac{1}{2}$

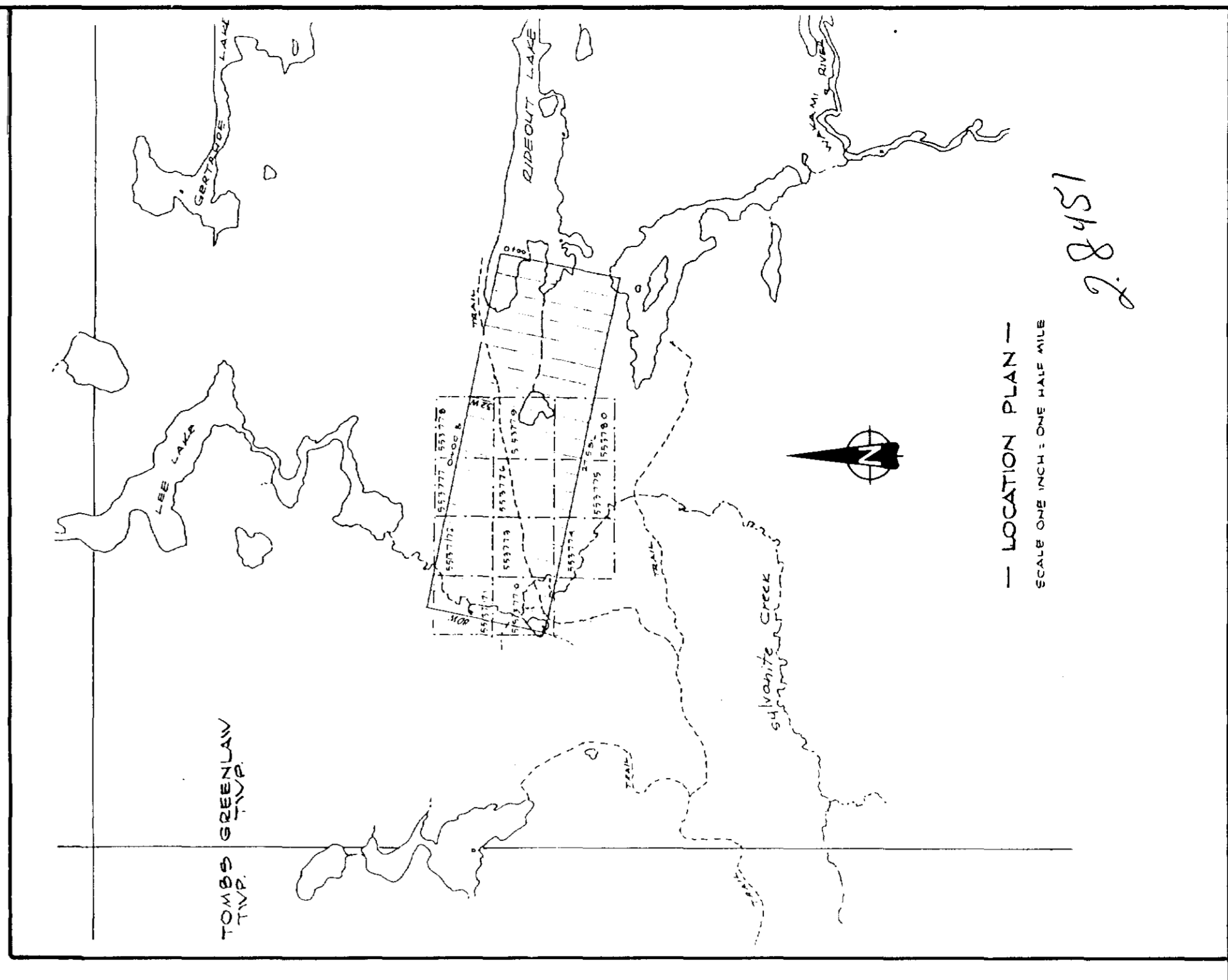
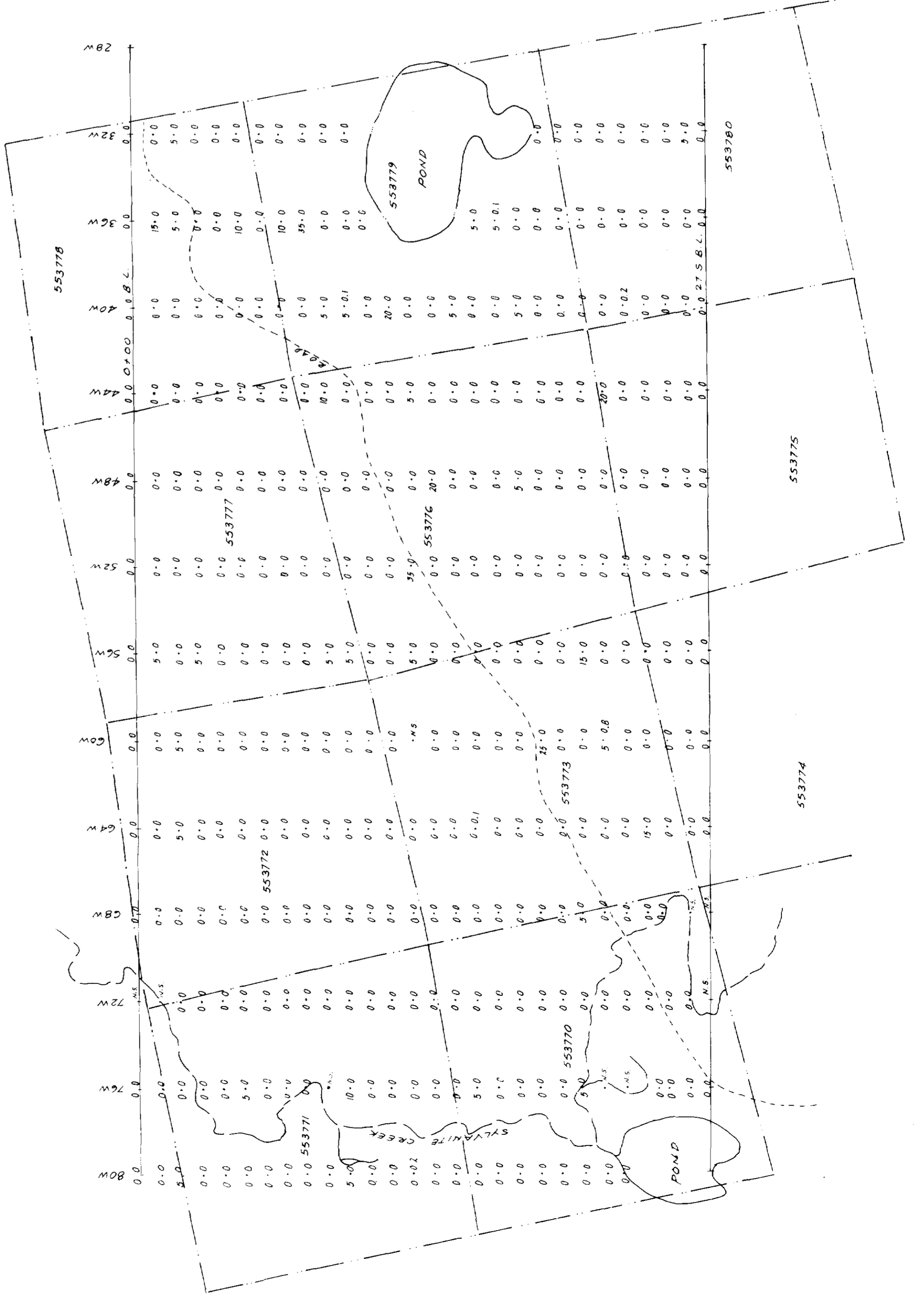
COPPER ppm · LEAD ppm



ZINC ppm



GOLD ppb · SILVER ppm



DATE SAMPLED: JULY, 1985
 TOTAL SAMPLES: 339

DATE: AUG., 1985
 DRAWN BY: C.K.

PROJECT NO.: 79504
 N.T.S. No.:

PROJECT: SWAYZE PROJECT
 FOR Pb, Ag, Cu, Pb, Zn IN SOIL
 GRID No. 48
 GREENAVILLE TWP. ONT.

GRANGES EXPLORATION LTD.
 VANCOUVER, B.C.

GEOCHEMICAL SURVEY