



42A01NW0054 2.5729 BOMPASS

010

2.5729.

ST. JOE CANADA INC.  
REPORT ON A  
HUMUS SURVEY ON  
THE BOMPAS CLAIM GROUP  
LARDER LAKE MINING DIVISION  
DISTRICT OF TIMISKAMING

**RECEIVED**

JUL 3 1983

MINING LANDS SECTION

JULY 1983



42A01NW0054 2.5729 BOMPASS

010C

Table of Contents

	Page
PART A	
Report	7 pages
Introduction	
Property: Description and Location	1
Figure 1 Claim Map	2
Figure 2 Location Map	3
History	4
General Geology	4
Humus Survey	5
Recommendations and Conclusions	7
Certificate	8
References	9
PART B	
MAP 1: Humus Sample Contours for Gold	In back pocket of Report
MAP 2: Humus Sample Contours for Arsenic	

Report on a Humus Survey  
on the Bompas Claim Group  
Larder Lake Mining Division  
District of Timiskaming  
St. Joe Canada Inc.

A. Introduction:

The following is a report on a humus survey completed by St. Joe Canada Inc. between August 12 - September 19, 1982 on the BOMPAS claim group.

Property: Description and Location

The property consists of nineteen (19) contiguous mining claims: Nos. L637088 - 92 incl., L641133 - 38 incl., L641129, L651312 - 17 incl. (Figure 1). All the claims are registered in the

name of: St. Joe Canada Inc.  
111 Richmond Street West,  
Suite 418,  
Toronto, Ontario  
Mining Lic. T1109

The property has been optioned from Dr. C.F. Gleeson and Dr. V. Rampton.

The claim group is situated on the east side of Bompas Township in the Kirkland Lake area. The BOMPAS claims are about 19 Km. (12 miles) west of the town of Kirkland Lake, immediately north of Kenogami Lake. The property is accessible by an all weather gravel road off Highway 11. The gravel road follows the north shore of Kenogami Lake. The northern section of the claim group is best reached by motorized boat via the Blanche River (Figure 2).

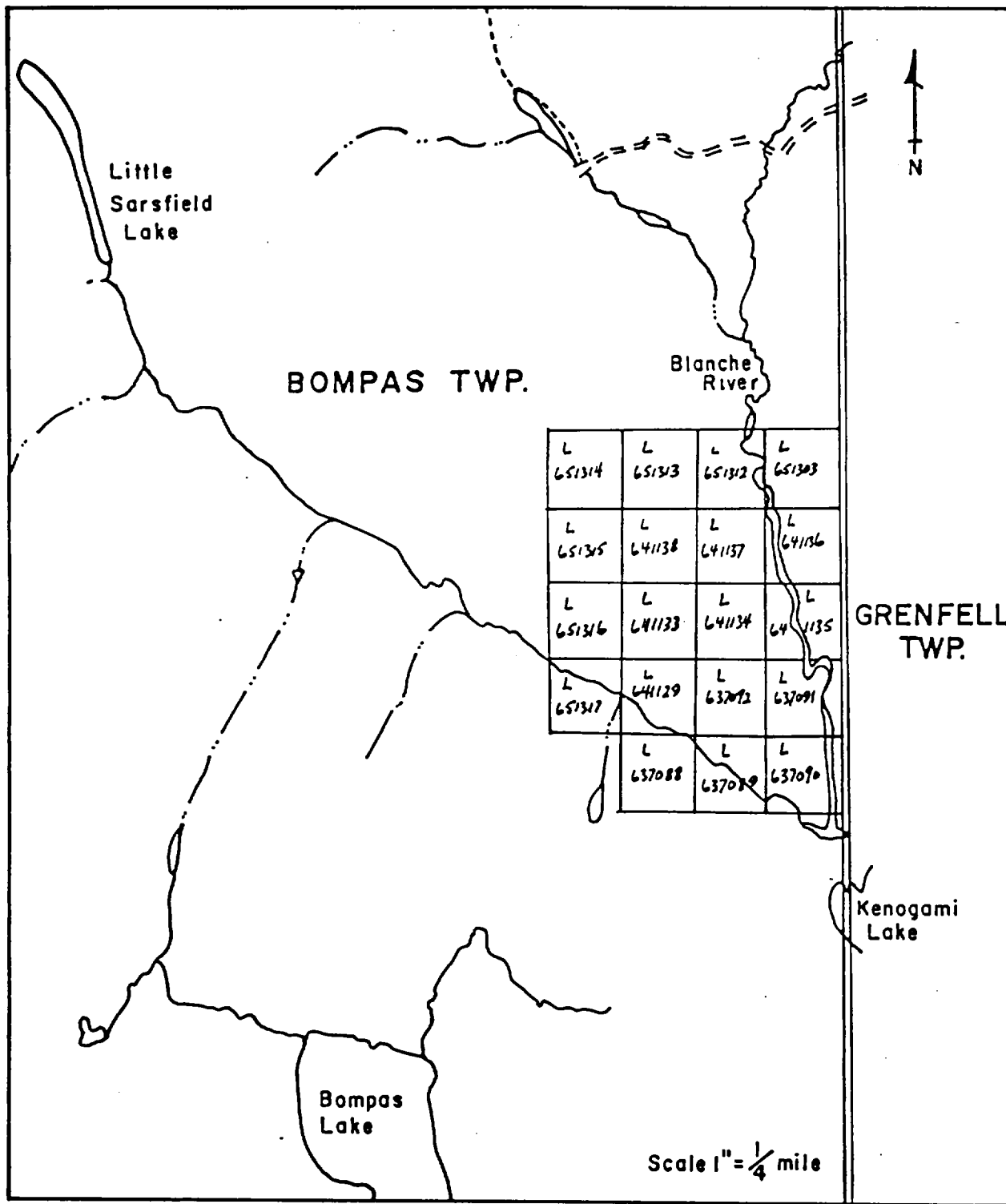


FIGURE I  
CLAIM MAP

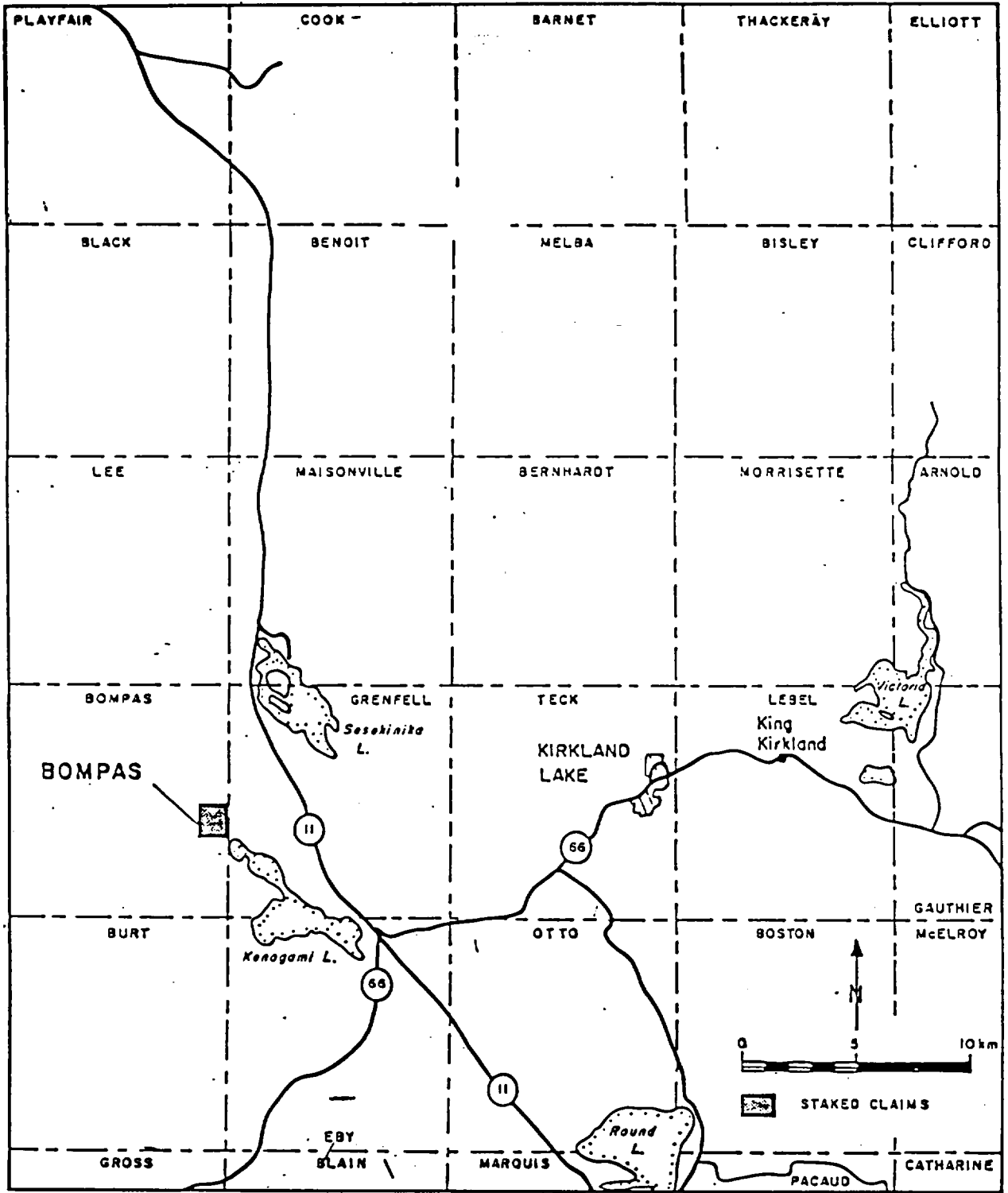


FIGURE 2  
LOCATION MAP

B. History

No previous work has been submitted to the Ministry of Natural Resources for open file assessment credits. In 1980, the Ontario Geological Survey carried out deep overburden drill sampling off the southeast corner of the BOMPAS claims in Grenfell Township. (Map 1 and 2)

Hole 80-20 was one of a number of reconnaissance reverse circulation holes drilled as part of the Kirkland Lake Initiatives Program (KLIP). The hole intersected 3m of oxidized sandy clay overburden and 0.9m of fine grained arkosic quartzite to arkose of the Huronian Gowganda Formation. The lowermost 1.5m of sandy clayey till assayed 5500 ppb Au in the -125 sample fraction.

C. General Geology

The following classification lists the rocks found on the claim area:

Table of Formations

Precambrian  
Proterozoic  
Huronian  
Cobalt Group  
Gowganda Formation  
  
2a Argillite  
2b Arkose greywacke  
2c Conglomerate, conglomeratic arkose  
intrusive contact  
  
Archean  
Basic Volcanic Rocks  
1a Basalt, Andesite  
1b Fragmental Lavas  
1c Pillow Lavas  
1d Chlorite Schist, amphibolite schist

The BOMPAS claims are principally underlain by Proterozoic, Huronian conglomerates, arkoses, greywacke and argillites of the Gowganda Formation. The property appears to cover the edge of a sedimentary basin that is in contact to the east with Archean mafic metavolcanic rocks as outlined by a strong northwest trending aeromagnetic anomaly (from G.S.C. Map 289 G).

D. Humus Survey:

The survey was carried out between August 12 and September 19, 1982 by:

Kevin W. Leonard  
886 Tanager Avenue  
Burlington, Ontario

Nigel Hulme  
168 Aylmer Avenue  
Ottawa, Ontario

Laurra White  
c/o Co-Op Residence  
University of Waterloo  
Waterloo, Ontario

Ian Blakely  
c/o Co-op Residence  
University of Waterloo  
Waterloo, Ontario

Data from the humus survey have been plotted on Maps 1 and 2, located in the back pocket of this report.

A baseline trending parallel to the regional strike of the rocks was cut, chained and picketed at 25m. intervals. The majority of the grid lines were turned off the base-line at 100 meter intervals and were paced and flagged at 25m intervals. The remaining lines (i.e. L30+00N, L32+00N, L34+00N, L36+00N, L38+00N, L40+00N) were cut. Airphotos (scale 1" - ¼ mile) were used for control. The survey was completed at a scale of 1:2500.

(i) Gold

Gold values (Map 1) range from less than 1ppb up to 22ppb. Background values are less than 6ppb. Simple contouring of the values produces narrow, elongate, generally north to northwest trending (parallel to ice direction) anomalous zones outlined by the 6 and 8ppb contour intervals (the mean ( $\bar{x}$ ) plus one standard deviation(s) and the mean plus two standard deviations respectively).

A group of trenches and outcrops found near the northeast corner of the property expose sheared, rusty weathered fragmental intermediate lavas and dark green, altered chlorite schist cut by narrow discordant sulphide bearing quartz-carbonate and epidote veins. The 8ppb gold contour and values up to 22ppb Au define the area of sheared outcrops and outline an anomalous northwest trending zone 240m long and between 40 and 50m wide.

There is a strong correlation between the number and size of anomalous gold zones and the distribution of outcropping metasedimentary rocks located in the southwest and northwest corners, and along the east central portion of the property. However, lower gold values are associated with humus samples overlying the metasediments (Map 1).

(ii) Arsenic

Arsenic values (Map 2) range from less than 1 to 26ppm. Background values are less than 6ppm. The 6ppm As contour interval ( $\bar{x} + 1S$ ) outlines the prominent shear zone located in the northeast corner of the claims.

The highest value of 26ppm As is found in the extreme southwest corner of the property, distributed in humus overlying metasedimentary rocks. Highest clustering of anomalies occur in the southwest portion of the claims. There is a good correlation between arsenic and gold (correlation coefficient of 0.55) values. Arsenic values form northwest trending dispersion trains and to a lesser degree scattered isolated anomalies, generally overlapping anomalous gold zones.

#### Conclusions and Recommendations

Gold mineralization on the BOMPAS claims may be derived from a paleoplacer (Witwatersrand-type) occurrence or be present as auriferous breccia or shear zones.

The preliminary humus survey has successfully delineated areas of interest in the northwest, southwest and northeast corners of the property. A strong coincident gold and arsenic anomaly is associated with a sulphide-bearing shear zone in mafic volcanic rocks. This zone may be the bedrock source responsible for the anomalous gold values discovered in basal till by the O.G.S. during their 1980 deep reverse circulation overburden drill program. Additional work involving systematic rock sampling of the trenches and detailed mapping is recommended to evaluate the gold potential of this zone.

July 30th, 1983

Respectfully submitted



Kevin Leonard  
Project Geologist

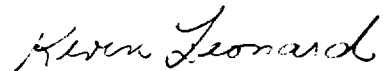
CERTIFICATE

I, Kevin Leonard, of the City of Burlington, Province of Ontario, do hereby certify that:

1. I reside at 886 Tanager Ave., Burlington, Ontario.
2. I have worked as a geologist for the last 5 years.
3. I am a graduate of McMaster University with an Honours Degree (1978) in Geology.
4. I am a member of the Prospectors and Developers Association, of the Canadian Institute of Mining and Metallurgy, and of the Geological Association of Canada.
5. I carried out the geology survey. The linecutting and map preparation were done under my supervision. I have written the report.

Dated at Toronto

This 30th day of July ,1983



Kevin W. Leonard

References

AEM - Mag Map 2262

Gleeson C.F. (1982): Description of Barnet, Morrisette and  
Bompas Claims, Kirkland Lake Area,  
Ontario.

Grant A. James (1964): Bompas and Grenfell Townships,  
O.D.M. GR30

G.S.C. Map 289G



File **L 637088 #167** **Reps** **The Mining**

Type of Survey(s): **Geochemical** Township or Area: **Bompas Twp.**

Claim Holder(s): **St. Joe Canada Inc.** Prospector's Licence No.: **T1109**

Address: **111 Richmond St. W., Suite 418, Toronto, Ontario** **2.5729**

Survey Company: **St. Joe Canada Inc.** Date of Survey (from & to): **12 08 82** to **19 09 82** Total Miles of line Cut: **21.25**

Name and Address of Author (of Geo-Technical report): **Kevin W. Leonard, 886 Tanager Avenue, Burlington, Ontario**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	<b>20</b>
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	637088				
	637089				
	637090				
	637091				
	637092				
	641129				
	641133				
	641134				
	641135				
	641136				
	641137				
	641138				
	651303				
	651312				
	651313				
	651314				
	651315				
	651316				
	651317				

LARDER LAKE MINING DIV.  
RECORDED  
JUN 20 1983  
AM 7:19 1011 12134516 P.M.

RECEIVED JUN 30 1983

Expenditures (excludes power stripping)

Type of Work Performed: **MINING LANDS SECTION**

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.

Total number of mining claims covered by this report of work. **19**

For Office Use Only

Total Days Cr. Recorded: **380** Date Recorded: **June 20, 1983** Mining Recorder (acting): **M.G.W. [Signature]**

Date Approved as Recorded: **84.2.17** Branch Director: **[Signature]**

Date: **June 15, 1983** Recorded Holder or Agent (Signature): **Kevin Leonard**

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: **Kevin W. Leonard 886 Tanager Avenue, Burlington Ontario**

Type of Survey(s) **Geochemical** Township or Area **Bompas**  
 Claim Holder(s) **St. Joe Canada Inc.** Prospector's Licence No. **T1109**  
 Address **111 Richmond St. W., Suite 418, Toronto, Ontario M5H 2J4**  
 Survey Company **St. Joe Canada Inc.** Date of Survey (from & to) **12 08 82** to **19 09 82** Total Miles of line Cut **21.25**  
 Name and Address of Author (of Geo-Technical report) **Kevin W. Leonard, 886 Tanager Avenue, Burlington, Ontario L7T 2Y2**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	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
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
L	637088	30
	637089	30
	637090	30
	637091	30
	637092	30
	641129	30
	641133	30
	641134	30
	641135	30
	641136	30
	641137	30
	641138	26
	651303	21
	651312	20
	651313	20
	651314	20
	651315	20
	651316	20
	651317	20

RECEIVED  
 AUG 15 1983  
 MINING LANDS SECTION

LARDER LAKE MINING DIV.  
 JUL 30 1983

Total number of mining claims covered by this report of work. **19**

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures **\$ 7,464.70** ÷ **15** = **497** 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.

For Office Use Only

Total Days Cr. Recorded **497** Date Recorded **AUG - 4 1983** Mining Recorder *[Signature]*  
 Date Approved as Recorded **84.2.17** Branch Director *[Signature]*

Date **July 15/83** Recorded Holder or Agent (Signature) *Kevin Leonard*

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 **Kevin W. Leonard, 886 Tanager Avenue**  
**Burlington, Ontario L7T 2Y2**

Date Certified **July 15/83** Certified by (Signature) *Kevin Leonard*



Mining Lands Comments


To: Geophysics

Comments		
<input type="checkbox"/> Approved <input type="checkbox"/> Wish to see again with corrections	Date	Signature

To: Geology - Expenditures *C. Kustra*

Comments		
<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Wish to see again with corrections	Date <i>Oct 20/83</i>	Signature <i>Kustra</i>

To: Geochemistry *Mr. Horseshoe*

Comments		
<i>L.D.</i>		
<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Wish to see again with corrections	Date <i>Feb 10 1984</i>	Signature <i>John Horseshoe</i>



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.

### The Mining Act

Ty Survey(s) <b>Geochemical</b>		Township or Area <b>Bompas</b>	
Claim Holder(s) <b>St. Joe Canada Inc.</b>		Prospector's Licence No. <b>T1109</b>	
Address <b>111 Richmond St. W., Suite 418, Toronto, Ontario M5H 2J4</b>			
Survey Company <b>St. Joe Canada Inc.</b>		Date of Survey (from & to) 12 08 82   19 09 82 Day   Mo.   Yr.   Day   Mo.   Yr.	Total Miles of line Cut <b>21.25</b>
Name and Address of Author (of Geo-Technical report) <b>Kevin W. Leonard, 886 Tanager Avenue, Burlington, Ontario L7T 2Y2</b>			

#### Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
For each additional survey: using the same grid: Enter 20 days (for each)	Geochemical	
Man Days  Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	Other	
Airborne Credits  Note: Special provisions credits do not apply to Airborne Surveys.	Geological	Days per Claim
	Geochemical	
	Electromagnetic	
	Magnetometer	
	Radiometric	

#### Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	637088	30			
	637089	30			
	637090	30			
	637091	30			
	637092	30			
	641129	30			
	641133	30			
	641134	30			
	641135	30			
	641136	30			
	641137	30			
	641138	26			
	651303	21			
	651312	20			
	651313	20			
	651314	20			
	651315	20			
	651316	20			
	651317	20			

**RECEIVED**

3 3 1983

**MINING LANDS SECTION**

**LARDER LAKE**  
MINING DIV.  
**JUL 25 1983**

#### Expenditures (excludes power stripping)

Type of Work Performed				
Performed on Claim(s)				
Calculation of Expenditure Days Credits				
Total Expenditures <b>\$ 7,464.70</b>	÷	15	=	Total Days Credits <b>497</b>
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.				

Total number of mining claims covered by this report of work.

#### For Office Use Only

Total Days Cr. Recorded	Date Recorded <b>July 25, 1983</b>	Mining Recorder
	Date Approved as Recorded	Branch Director

Date <b>July 15/83</b>	Recorded Holder or Agent (Signature) <i>Kevin Leonard</i>
---------------------------	--------------------------------------------------------------

#### 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 <b>Kevin W. Leonard, 886 Tanager Avenue</b>		
Date Certified	Certified by (Signature)	

Ministry of Natural Resources

**GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT**



Ontario

**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) Geochemical  
 Township or Area Bompas Twp.  
 Claim Holder(s) St. Joe Canada Inc.  
 Survey Company St. Joe Canada Inc.  
 Author of Report Kevin W. Leonard  
 Address of Author 886 Tanager Ave. Burlington  
 Covering Dates of Survey 12/08/82 - 19/09/82  
 (linecutting to office)  
 Total Miles of Line Cut 21.25

**MINING CLAIMS TRAVERSED  
List numerically**

(prefix)	(number)
L	637088
L	637089
L	637090
L	637091
L	637092
L	641129
L	641133
L	641134
L	641135
L	641136
L	641137
L	641138
L	651303
L	651312
L	651313
L	651314
L	651315
L	651316
L	651317

If space insufficient, attach list

**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	
-Magnetometer	
-Radiometric	
-Other	
Geological	
Geochemical	20

**AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)**

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
 (enter days per claim)

DATE: July 11/83 SIGNATURE: Kevin Leonard  
 Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications \_\_\_\_\_

**Previous Surveys**

File No.	Type	Date	Claim Holder

**RECEIVED**

AUG. 3 1983

MINING LANDS SECTION

TOTAL CLAIMS 19

OFFICE USE ONLY

beach

L 637082

✓

39

✓

40

✓

41

✓

42

✓

641133

✓

MEA

641133

✓

34

✓

35

✓

36

✓

37

✓

38

✓

651303

✓

651302

✓

313

✓

314

✓

315

✓

316

✓

317

✓

# ST. JOE CANADA INC.

159 Bay Street, Suite 614, Toronto, Ontario M5J 1J7

N° 1554

TORONTO October 21, 19 82

PAY TO  
THE ORDER OF Barringer Magenta Ltd.

\$ 10,346.50

~~Amount of 10,346.50~~

100 DOLLARS

TO  
CANADIAN IMPERIAL BANK OF COMMERCE  
MAIN BRANCH - COMMERCE COURT  
TORONTO, ONTARIO  
M5L 1J9

PER: Ray June

⑆00002⑆0⑆0⑆

71⑆147⑆10⑆

ENDORSEMENT OF ATTACHED CHEQUE IS SUFFICIENT RECEIPT

DETACH AT PERFORATION

DATE	INVOICE REFERENCE	BALANCE	DISTRIBUTION A/C No.	AMOUNT
Oct. 21, 1982	No. 8220	1363.20	815-79811	1363.20
	No. 8230	3422.20	815-79811	2059.00
	No. 8231	4984.20	813-79811	1562.00
	No. 8232	5743.90	815-79811	759.70
	No. 8246	5972.00	813-79811	211.00
	No. 8234	3323.00	813-79811	2350.10
	No. 8235	0054.20	815-79811	731.30
	No. 8236	10346.50	815-79811	1292.20

CD83

RECEIVED

AUG 3 1983

MINING LANDS SECTION

# ST. JOE CANADA INC.

159 Bay Street, Suite 614, Toronto, Ontario M5J 1J7

Nº 1841

TORONTO October 22 1982

PAY TO  
THE ORDER OF Reudinger Magenta Limited \$ 3,522.10

100 DOLLARS

TO  
CANADIAN IMPERIAL BANK OF COMMERCE  
MAIN BRANCH - COMMERCE COURT  
TORONTO, ONTARIO  
M5L 1J9

PER: \_\_\_\_\_

⑆00002⑆010⑆ 71⑆147⑆10⑆

ENDORSEMENT OF ATTACHED CHEQUE IS SUFFICIENT RECEIPT

DETACH AT PERFORATION

DATE	INVOICE REFERENCE	BALANCE	DISTRIBUTION A/C No.	AMOUNT
Nov 1	3257	1,197.50	313-79811	1,197.50
Nov 8	3256	2,324.60	813-79811	972.30
Nov 14	3255	3,522.10	315-79811	3,449.80

CD90

# ST. JOE CANADA INC.

159 Bay Street, Suite 614, Toronto, Ontario M5J 1J7

N° 1554

TORONTO October 21, 1982

PAY TO THE ORDER OF Barringer Magenta Ltd. \$ 10,346.50

The sum of 10,346 dollars 50 cts 100 DOLLARS

TO  
CANADIAN IMPERIAL BANK OF COMMERCE  
MAIN BRANCH - COMMERCE COURT  
TORONTO, ONTARIO  
M5L 1J9

PER: Ray June

⑆000020010⑆

71001470010⑆

⑆0001034650⑆

3 3 6

# ST. JOE CANADA INC.

159 Bay Street, Suite 614, Toronto, Ontario M5J 1J7

N° 1641

TORONTO October 28 1982

PAY TO THE ORDER OF Barringer Magenta, Limited \$ 3,522.10

The sum of 3,522 dollars 10 cts 100 DOLLARS

TO  
CANADIAN IMPERIAL BANK OF COMMERCE  
MAIN BRANCH - COMMERCE COURT  
TORONTO, ONTARIO  
M5L 1J9

PER: Ray June

⑆000020010⑆

71001470010⑆

⑆0000352210⑆

2 8 6

## RECEIVED

AUG 3 1983

MINING LANDS SECTION

# BARRINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE  
 METROPOLITAN TORONTO  
 REXDALE, ONTARIO  
 CANADA M9W 5G2  
 PHONE: 416-675-3870  
 TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

- St. Joe Canada Inc.  
 159 Bay Street, Ste. 614  
 Toronto, Ontario  
 M5J 1J7

DATE: Oct. 8, 1982  
 PROJECT: 100.41  
 PERIOD COVERED:  
 SALES ORDER:  
 PROGRESS BILLING:  
 SHIPPING REPORT:  
 WORK REPORT: 82-463/G199  
 FED. SALES TAX: N/A  
 ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: D. Molloy, project Gleason Option

TO: ANALYSIS

182 Humus Samples - Au, As @ \$7.10

\$1,292.20

TOTAL INVOICE

\$1,292.20

ST. JOE CANADA INC.  
 Date: Oct 20, 1982  
 Purchased From: K.M.  
 Authorized By: *[Signature]*  
 Cost Center / Project #      Account #      Amount  
 815      79811      1,292.20  
 Cheque #      Total

**RECEIVED**  
 AUG 3 1983  
 MINING LANDS SECTION

# BARRINGER MAGENTA LIMITED

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

304 CARLINGVIEW DRIVE  
 METROPOLITAN TORONTO  
 REXDALE, ONTARIO  
 CANADA M9W 5G2  
 PHONE: 416-675-3870  
 TELEX: 06-989183

St. Joe Canada Inc.  
 159 Bay Street, Ste. 614  
 Toronto, Ontario  
 M5J 1J7

DATE: Oct. 8, 1982  
 PROJECT: 100.41  
 PERIOD COVERED:  
 SALES ORDER:  
 PROGRESS BILLING:  
 SHIPPING REPORT:  
 WORK REPORT: 82-474/G209  
 FED. SALES TAX: N/A  
 ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: D. Molloy, project Gleason Option

TO: ANALYSIS

103 Humus Samples - Au, As @ \$7.10

TOTAL INVOICE

\$731.30

\$731.30

ST. JOE CANADA INC.		
Date Oct 20, 1982		
By: [Signature]		
Authorized by: [Signature]		
Product #	Account	Amount
815	79811	731.30
Cheque #		Total

**RECEIVED**

OCT 3 1983

MINING LANDS SECTION

INVOICE No 8211

# BARRINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE  
 METROPOLITAN TORONTO  
 REXDALE, ONTARIO  
 CANADA M9W 5G2  
 PHONE: 416-675-3870  
 TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

- St. Joe Canada Inc.  
 159 Bay St., Ste. 614
- Toronto, Ontario  
 M5J 1J7
- 

DATE: Oct. 8, 1982

PROJECT: 100.41

PERIOD COVERED:

SALES ORDER:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 82-495/G222

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: D. Molloy, project: Gleason Option

TO: ANALYSIS

107 Humus Samples - Au, As @ \$7.10

\$759.70

TOTAL INVOICE

\$759.70

ST. JOE CANADA INC.		
Oct 30, 1982		
K. M.		
815	798.11	759.70
Cheque #		Total

**RECEIVED**  
 AUG 3 1983  
 MINING LANDS SECTION

INVOICE N<sup>o</sup> 8232

# JINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE  
METROPOLITAN TORONTO  
REXDALE, ONTARIO  
CANADA M9W 5G2  
PHONE: 416-675-3870  
TELEX: 06-989183

GEARTH AND ENVIRONMENTAL SCIENCES

St. Joe Canada Inc.  
159 Bay St., Ste. 614  
Toronto, Ontario  
M5J 1J7

DATE: Oct. 8, 1982

PROJECT: 100.41

PERIOD COVERED:

SALES ORDER:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 82-507/G230

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: D. Molloy, project: Gleason Option

TO: ANALYSIS

290 Humus Samples, Au, As @ \$71.0

TOTAL INVOICE

\$2,059.00

\$2,059.00

ST. JOE CANADA INC.		
Date	Oct. 20, 1982	
Request or	Purchase Order	
Authorized By	K. M.	
Cost Centre		
Project #	Account	Amount
815	79811	2,059.00
Cheque #	Total	

**RECEIVED**

OCT 3 1982

MINING LANDS SECTION

INVOICE No 8230

# RINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE  
 METROPOLITAN TORONTO  
 REXDALE, ONTARIO  
 CANADA M9W 5G2  
 PHONE: 416-675-3870  
 TELEX: 06-989183

FOR THE EARTH AND ENVIRONMENTAL SCIENCES

St. Joe Canada Inc. CANADA INC.  
 159 Bay Street, Ste. 614  
 Toronto, Ontario  
 M5J 1J7

DATE: Oct. 8, 1982

PROJECT: 100.41

PERIOD COVERED:

SALES ORDER:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 82-516/G236

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: D. Molloy, project Gleason Option

TO: ANALYSIS 815. 79811 1363.20

Cheque Total 1363.20

192 Humus Samples, Au, As @ \$7.10

\$1,363.20

TOTAL INVOICE

\$1,363.20

ST. JOE CANADA INC.			
ATTENTION:	I. DEANE		
PROJECT:	100.41		
OCT 20 1982			
RECEIVED BY:	DATE:	READ BY:	
NOTES:			

**RECEIVED**  
 OCT 5 1982  
 MINING LANDS SECTION



304 CARLINGVIEW DRIVE  
 METROPOLITAN TORONTO  
 REXDALE, ONTARIO  
 CANADA M9W 5G2  
 PHONE: 416-675-3870  
 TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL

- St. Joe Canada Inc.  
 159 Bay Street, Ste. 614  
 Toronto, Ontario  
 M5J 1J7

TERMS: NET 30 days

DATE: Oct. 26, 1982

PROJECT: 100.41

PERIOD COVERED:

SALES ORDER:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 82-536/G244

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

AUTHORITY: D. Molloy, Project Gleason Option

TO: ANALYSIS

203 Humus Samples  
 Au, As - Neutron Activation @ \$7.10

\$1,441.30

TOTAL INVOICE

\$1,441.30

ST. JOE CANADA INC.		
Date	Oct. 27/82	
Request or	Purchase Order	
Authorized By	<i>[Signature]</i>	
Cost Centre		
Project #	Account #	Amount
815	79511	1,441.30
Cheque #	Total 1,441.30	

**RECEIVED**  
 403 3 1983  
 MINING LANDS SECTION

# ST. JOE CANADA INC.

111 RICHMOND STREET WEST, SUITE 418  
TORONTO, CANADA M5H 2J4  
(416) 367-1031

August 2nd, 1983.

To: Ministry of Natural Resources

Subject: Assessment Work Report

I have submitted to the Ministry duplicate copies of a humus survey completed on our Bompas property in northeastern Ontario.

Signed: *Kevin Leonard*

Stamped Received:

**RECEIVED**

AUG 3 1983

**MINING LANDS SECTION**

167

2.5729

1983 08 08

Mr. George J. Koleszar  
Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
P.O. Box 984  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

We have received reports and maps for a Geochemical survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 637088 et al in the Township of Bompas.

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

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

A. Barr:mc

cc: St. Joe Canada Inc  
Suite 418  
111 Richmond Street West  
Toronto, Ontario  
M5H 2J4  
Attention: Kevin W. Leonard



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

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) Geochemical  
Township or Area Bompas Twp.  
Claim Holder(s) St. Joe Canada Inc.  
  
Survey Company St. Joe Canada Inc.  
Author of Report Kevin W. Leonard  
Address of Author 886 Tanager Ave. Burlington  
Covering Dates of Survey 12/08/82 - 19/09/82  
(linecutting to office)  
Total Miles of Line Cut 21.25

MINING CLAIMS TRAVERSED  
List numerically

L	637088
(prefix)	(number)
L	637089
L	637090
L	637091
L	637092
L	641129
L	641133
L	641134
L	641135
L	641136
L	641137
L	641138
L	651303
L	651312
L	651313
L	651314
L	651315
L	651316
L	651317

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>		DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	-Electromagnetic	
	-Magnetometer	
	-Radiometric	
ENTER 20 days for each additional survey using same grid.	-Other	
	Geological	
	Geochemical	20

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: July 11/83 SIGNATURE: Kevin Leonard  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications \_\_\_\_\_

<u>Previous Surveys</u>			
File No.	Type	Date	Claim Holder

RECEIVED

JUL 3 1983

MINING LANDS SECTION

TOTAL CLAIMS 19

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken L637708 - 92 incl., L641129, L641133 - 38 incl.  
L651303, L651312 - 17 incl.

Total Number of Samples 1077  
Type of Sample humus  
(Nature of Material)  
Average Sample Weight 2 grams  
Method of Collection hand  
Soil Horizon Sampled organic  
Horizon Development moderate  
Sample Depth surface  
Terrain rugged  
Drainage Development good  
Estimated Range of Overburden Thickness 0 - 9m

**SAMPLE PREPARATION**  
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis 20 pressed into a brickette

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ANALYTICAL METHODS**

Values expressed in: per cent   
p. p. m.  As  
p. p. b.  Su  
Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)  
Others Au, As  
Field Analysis (\_\_\_\_\_ tests)  
Extraction Method \_\_\_\_\_  
Analytical Method \_\_\_\_\_  
Reagents Used \_\_\_\_\_  
Field Laboratory Analysis  
No. (\_\_\_\_\_ tests)  
Extraction Method \_\_\_\_\_  
Analytical Method \_\_\_\_\_  
Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)  
Name of Laboratory Barringer Magenta  
Extraction Method Fire Assay - AA  
Analytical Method Neutron Activation  
Reagents Used HNO<sub>3</sub> - HCl

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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 \_\_\_\_\_

# 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 \_\_\_\_\_

Instrument \_\_\_\_\_

Method  Time Domain  Frequency Domain

Parameters -- On time \_\_\_\_\_ Frequency \_\_\_\_\_

-- Off time \_\_\_\_\_ Range \_\_\_\_\_

-- Delay time \_\_\_\_\_

-- Integration time \_\_\_\_\_

Power \_\_\_\_\_

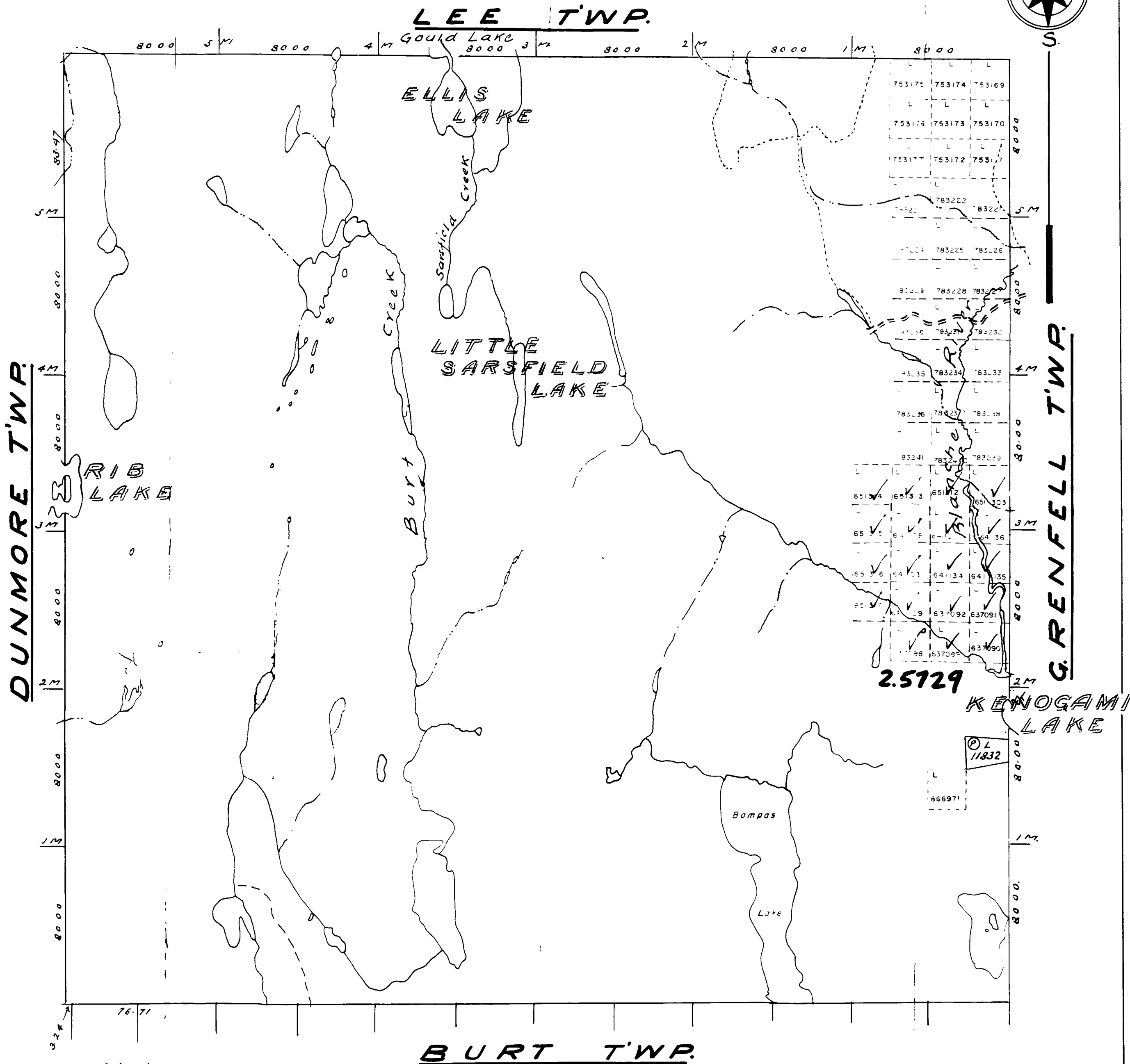
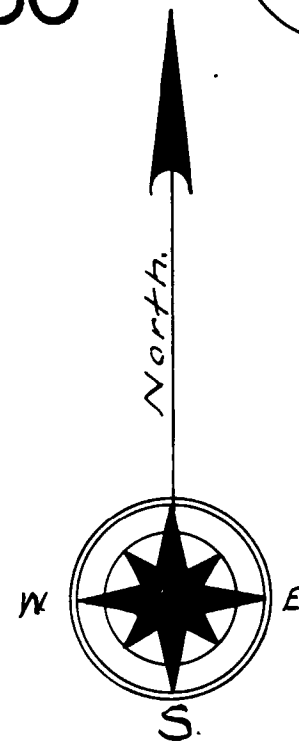
Electrode array \_\_\_\_\_

Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_

INDUCED POLARIZATION  
RESISTIVITY

PLAN OF  
**BOMPAS TWP.**  
 LARDER LAKE MINING DIVISION.  
 DISTRICT OF TIMISKAMING  
 — Scale 40 chains to an inch —



Notes

- Railways shown
- Paved Highways
- Gravel
- Highway Route No.
- Other Roads
- Trails & Paths
- Telephone & Telegraph Lines
- Electric Power Lines
- 400' Surface rights reservation around all lakes and rivers.

- Non-perennial streams
- Bridges
- Buildings
- Swamps
- Areas marked (L) are Patented
- LO " Leased
- LO " held under Licence of Occupation

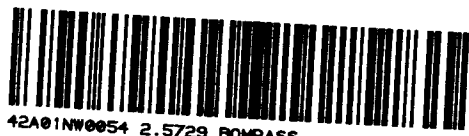
- CROWN LAND SALE CS
- LOCATED LAND LOC
- MINING RIGHTS ONLY MRO
- SURFACE RIGHTS ONLY SRO
- CANCELLED C.

DATE OF ISSUE

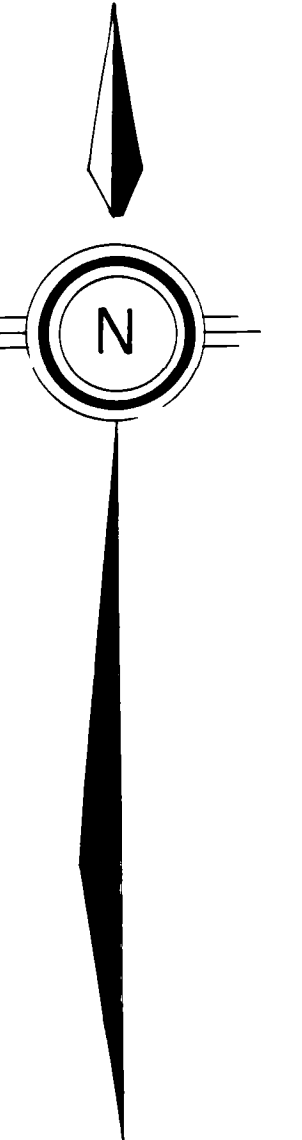
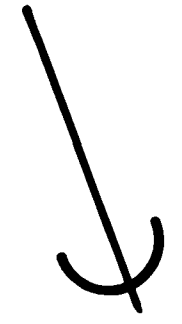
FEB 13 1994

Ministry of Natural Resources  
 TORONTO

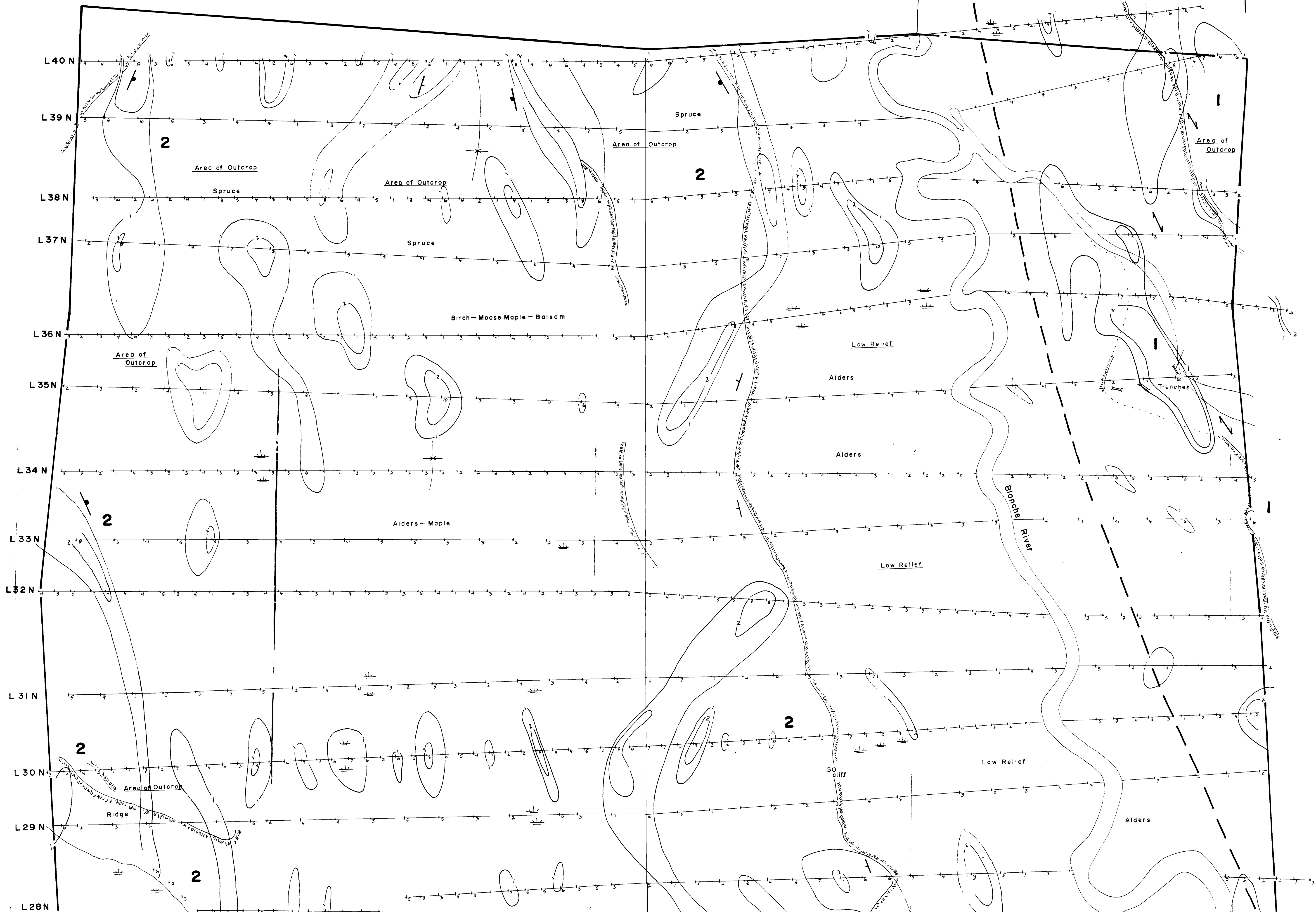
25729.1

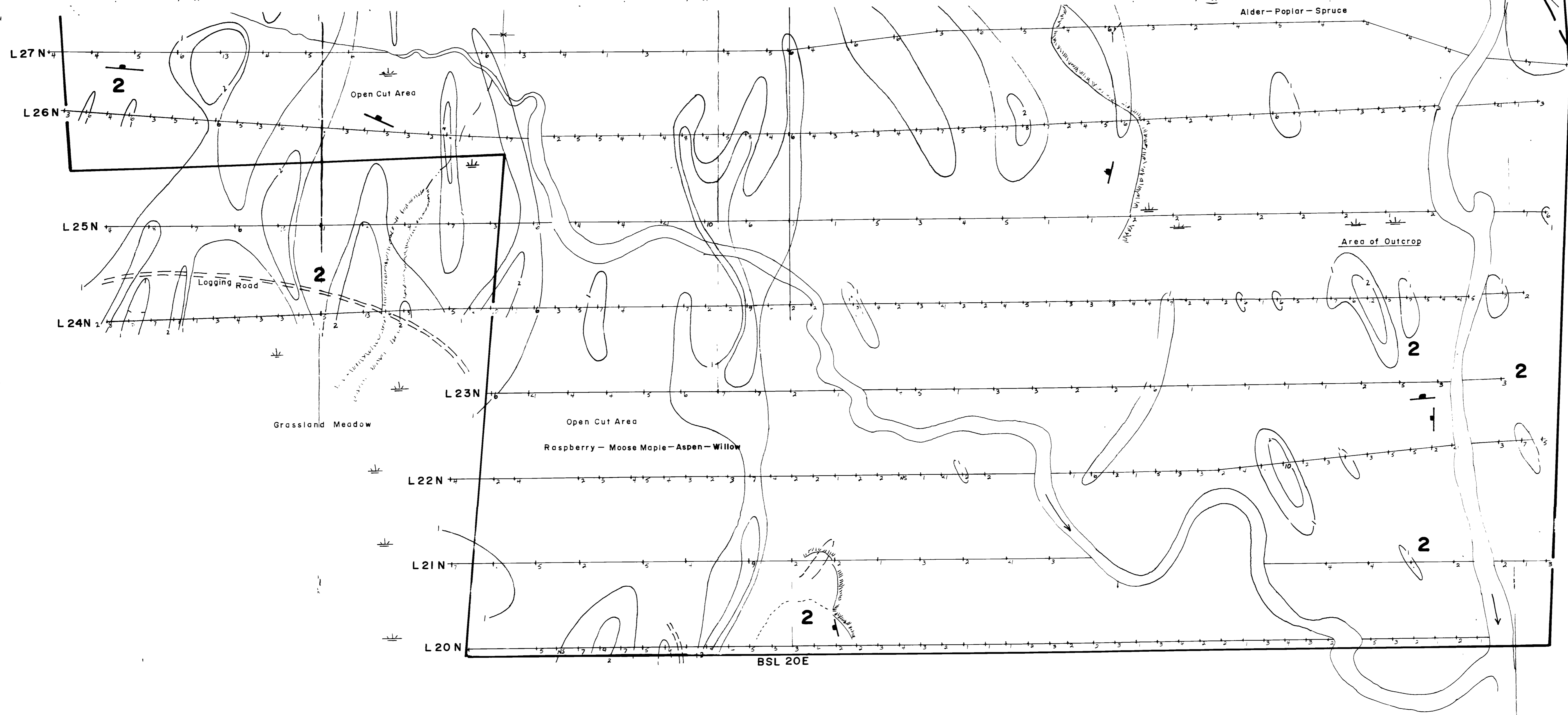


42A01NW0054 2.5729 BOMPAS

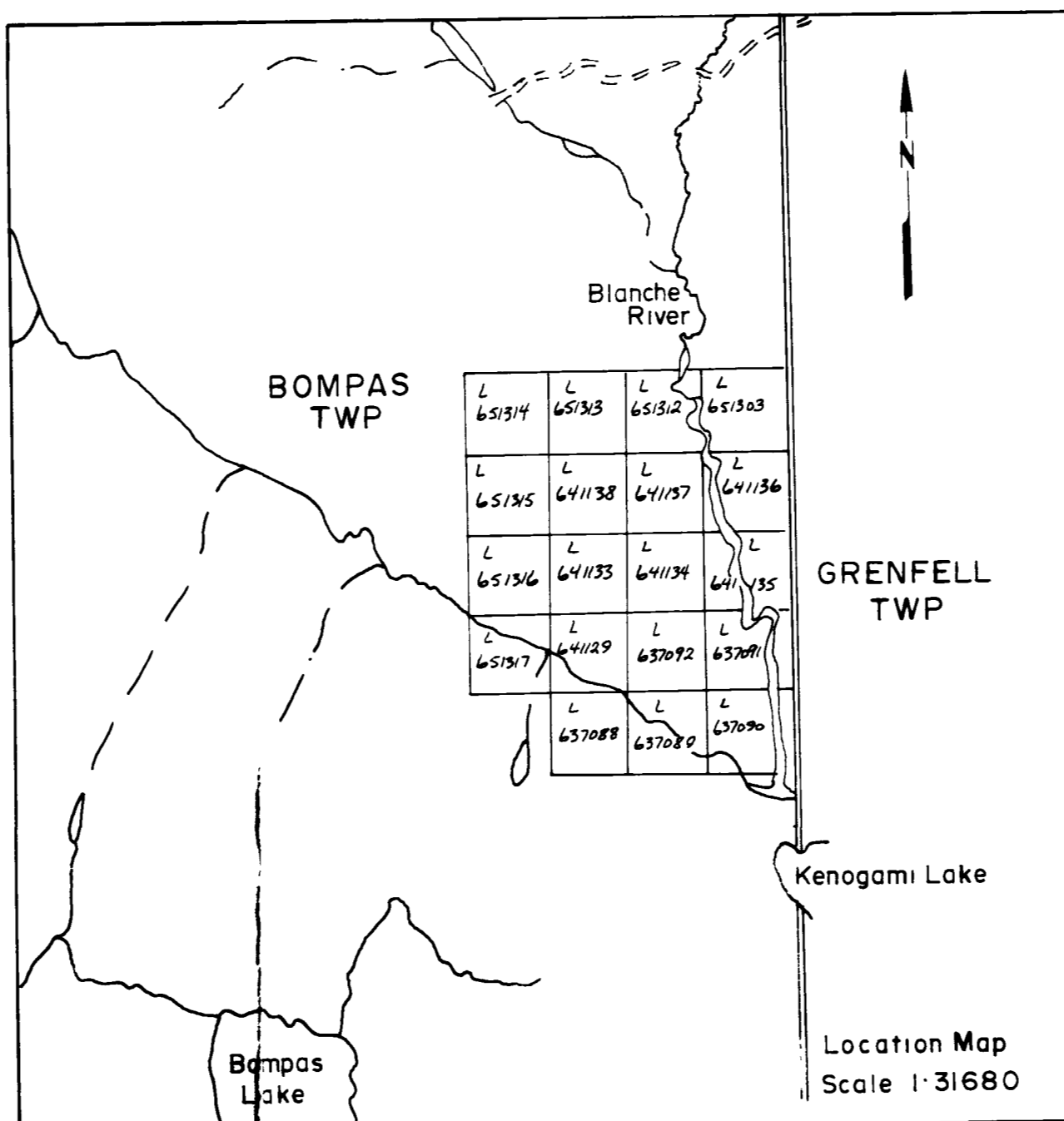


Bompas Twp. Grenfell Twp.





○ DH-01, 5500 ppb Au  
80-20, OBD Hole  
(location approximate)

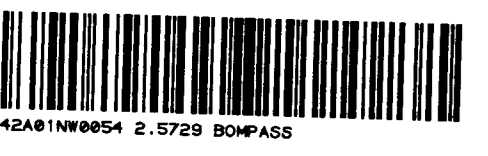


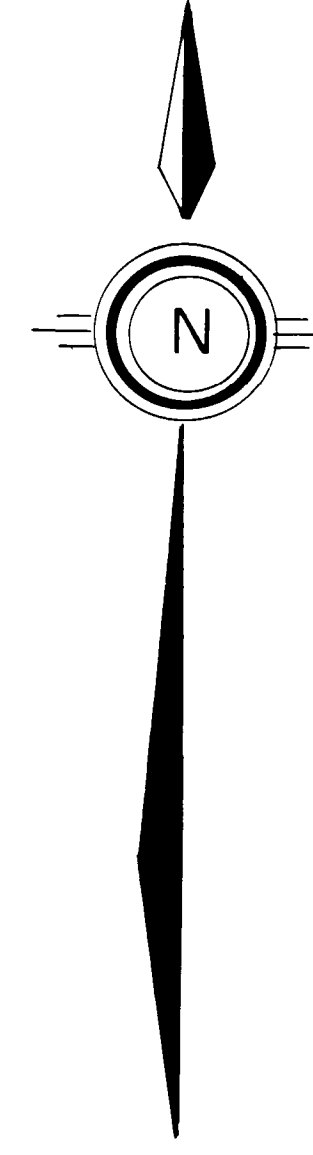
- LEGEND**
- 1  $\bar{X} + 1$  Standard Deviation 6ppb Au
  - 2  $\bar{X} + 2$  Standard Deviations 8ppb Au
  - 2 Sedimentary Rocks, Cobalt Group
  - 1 Metavolcanic Rocks
  - - - Geological Boundary, approximate
  - Scarp
  - Swamp
  - ns Not Sufficient Sample
  - Grid Lines
  - Bompas Claim Boundary

*Kenn Leonard*

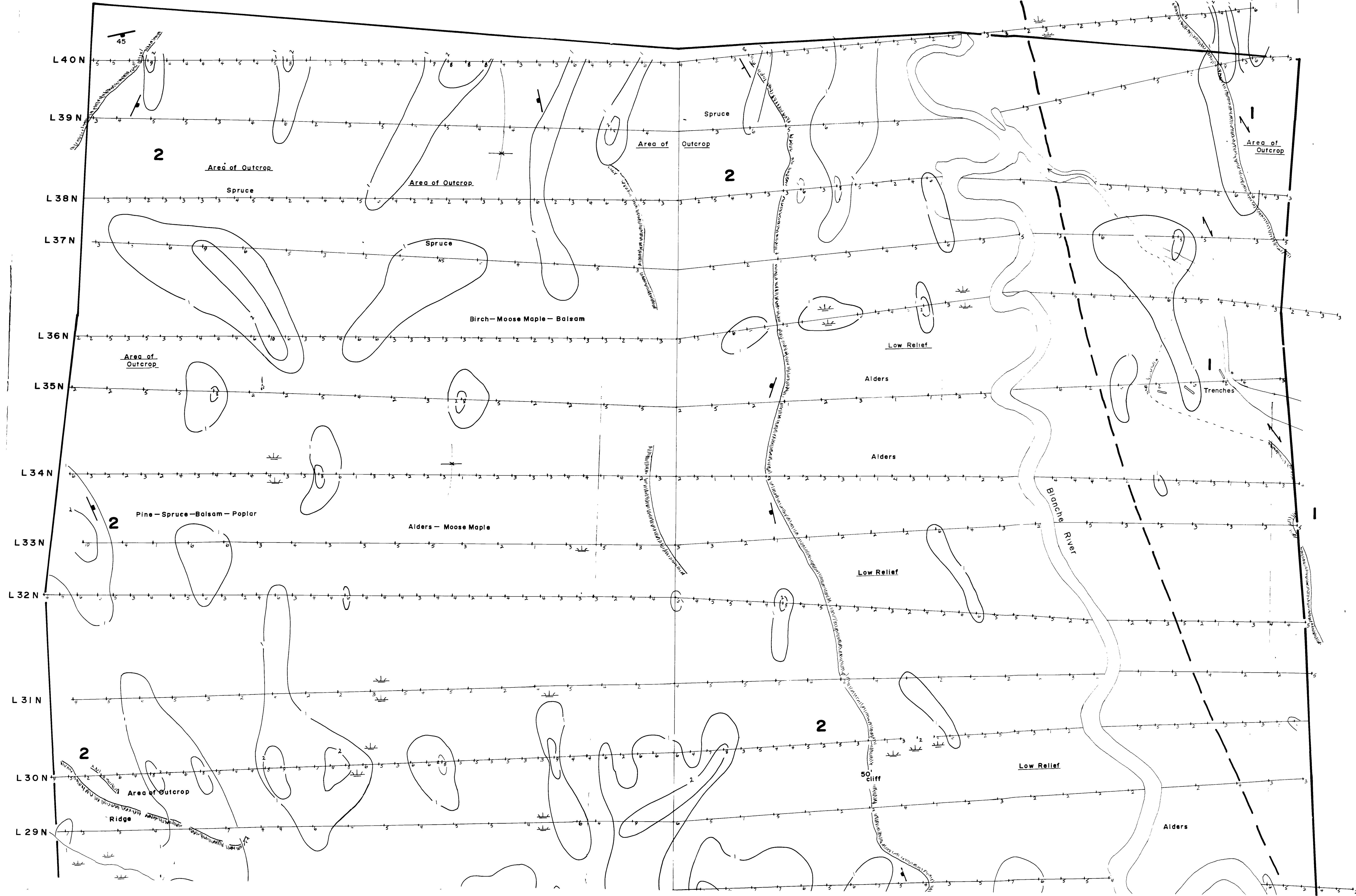
<b>ST. JOE CANADA INC.</b>	
PROJECT 811 - BOMPAS CLAIMS GLEESON OPTION	
<b>HUMUS SAMPLE CONTOURS FOR GOLD</b>	
Kirkland Lake Area, Northeastern Ontario	
Drafted by K Leonard	Scale: 1:2500
Approved by D Molloy	NTS: 42A/1
Date: January 1983	Map No: 1

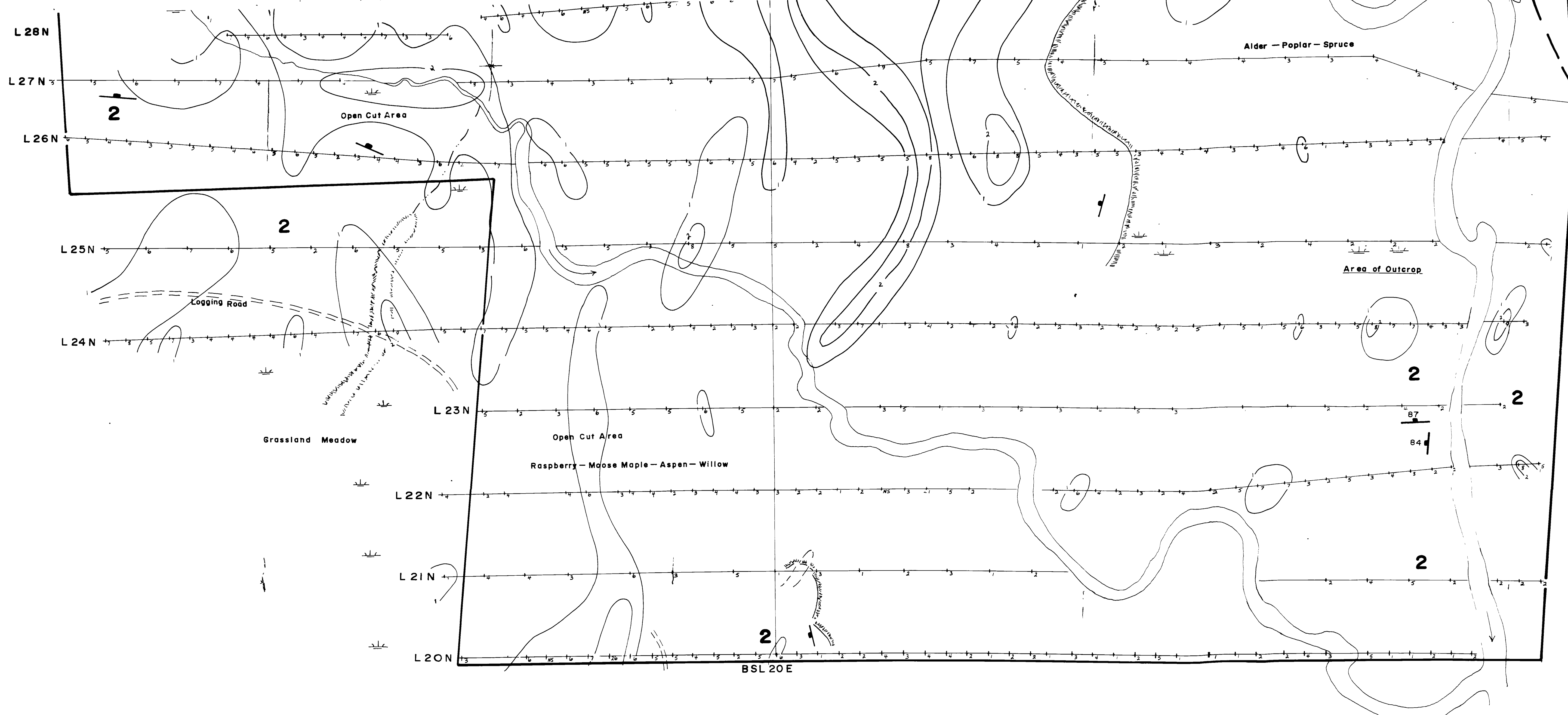
2.5, 2



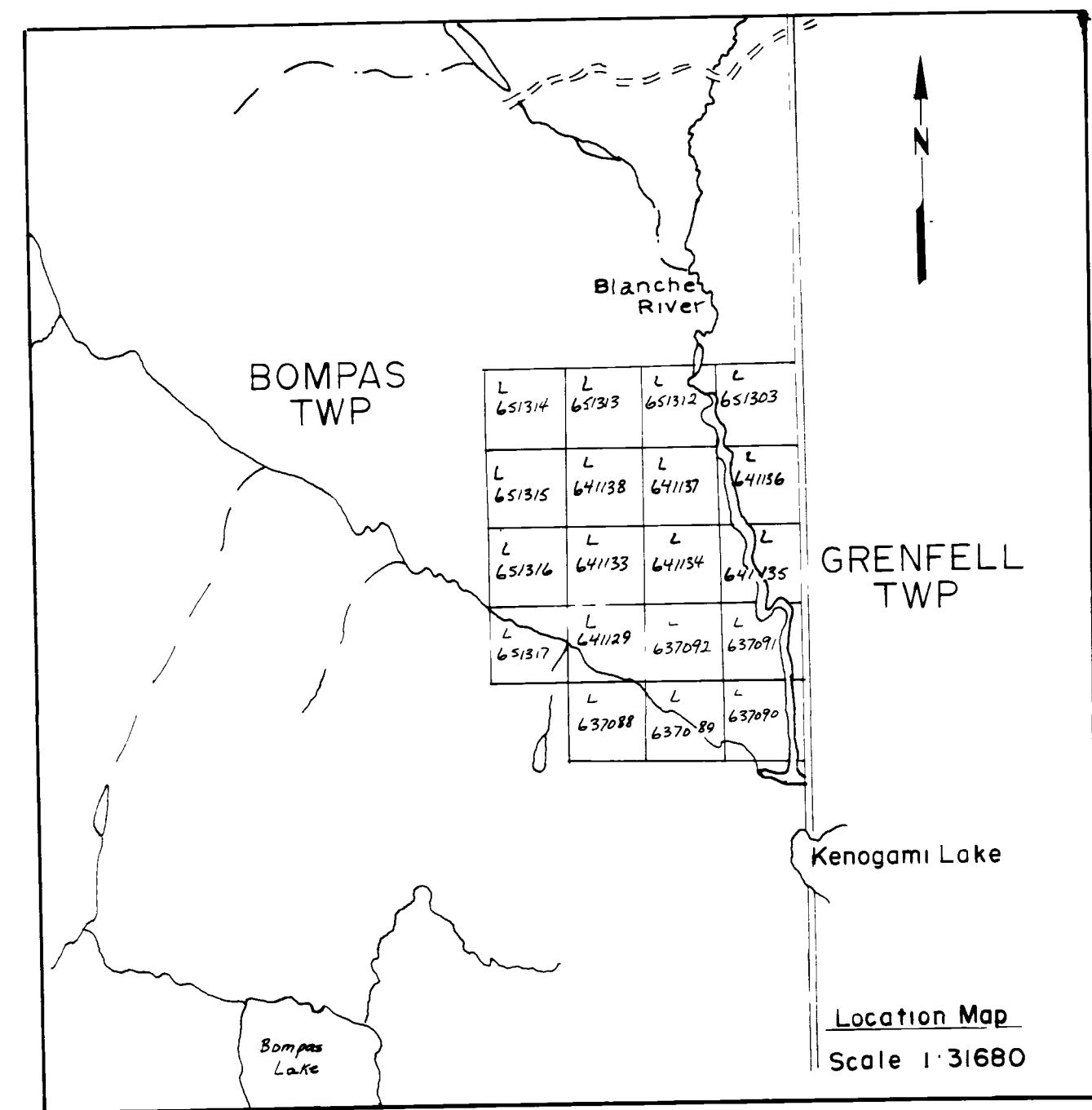


Bompos Twp. Grenfell Twp





○ DH - 01,5500 ppb Au  
 80-20, OBD Hole  
 (location approximate)



- LEGEND**
- 1 -  $\bar{X}+1$  Standard Deviation 6ppm As
  - 2 -  $\bar{X}+2$  Standard Deviations 8ppm As
  - 2 - Sedimentary Rocks, Cobalt Group
  - 1 - Metavolcanic Rocks
  - - - Geological Boundary, approximate
  - ~ Scarp
  - ~ Swamp
  - ns Not Sufficient Sample
  - Grid Line
  - Bompas Claim Boundary

*Kevin Leonard*

<b>ST. JOE CANADA INC.</b>	
PROJECT B11 - BOMPAS CLAIMS GLEESON OPTION	
<b>HUMUS SAMPLE CONTOURS FOR ARSENIC</b>	
Kirkland Lake Area, Northeastern Ont.	
Drafted by: K. Leonard	Scale: 1:2500
Approved by: D. Molloy	N.T.S.: 42A/1
Date: January 1983	Map No.: 2

