

42C03SW0068 2.10699 MISHIBISHU LAKE

010

GEOCHEMICAL (SOIL) SAMPLING
OF THE MISSING LAKE - CAMERON LAKE CLAIM GROUP
SAULT STE MARIE MINING DIVISION, ONTARIO
FOR
DOMINION EXPLORERS INC.
&
WASABI RESOURCES LTD.

Wawa, Ontario
December, 1987

Seymour M. Sears, B.A., B.Sc.
Geologist

RECEIVED

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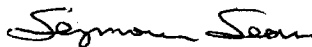
MINING LANDS SECTION

SUMMARY

A geochemical (soil) sampling program has been completed on the Missing Lake - Cameron Lake Property of Dominion Explorers Inc. & Wasabi Resources Ltd. The survey results indicate three (3) weakly defined, broad zones containing scattered anomalous gold values. The anomalous trends may represent areas of gold enrichment in bedrock that are partially masked by heavy and possibly foreign derived overburden.

A program involving detailed geochemical (soil) sampling, prospecting and rock sampling, geological mapping; stripping and trenching is recommended on the claims. This should be followed by diamond drilling of selected targets if encouraging results are obtained.

Respectfully submitted,



Seymour M. Sears, B.A., B.Sc.
Geologist

Wawa, Ontario
Dec, 1987



42C035W0068 2.10699 MISHIBISHU LAKE

010C

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INTRODUCTION

This report is designed to present the results of a soil sampling survey completed upon a forty one (41) claim property in the Missing Lake - Cameron Lake Area of the Mishibishu Lake Greenstone Belt near Wawa, Ontario. The work was completed by personell of Sears, Barry and Associates, Inc. of Wawa, Ontario on behalf of Domininon Explorers Inc. and Wasabi Resources Ltd. of Toronto, Ontario. The samples were collected during the period from September 28 to October 19, 1987.

PROPERTY, LOCATION AND ACCESS

The property is centered 4.5 miles south of Mishibishu Lake and 30 miles west northwest of Wawa, Ontario (Fig 1). They are shown on M.N.R. Mining Claim Map No. G.3772, Mishibishu Lake Map Area, a portion of which is reproduced in this report as Fig. 2.

The claims are numbered as follows:

SSM 661112 to 661115 (incl)	SSM 661128 to 661135 (incl)
SSM 661155 to 661162 (incl)	SSM 661169 to 661176 (incl)
SSM 661187 to 661194 (incl)	SSM 690892 to 690893
SSM 693586 to 693587	SSM 693604

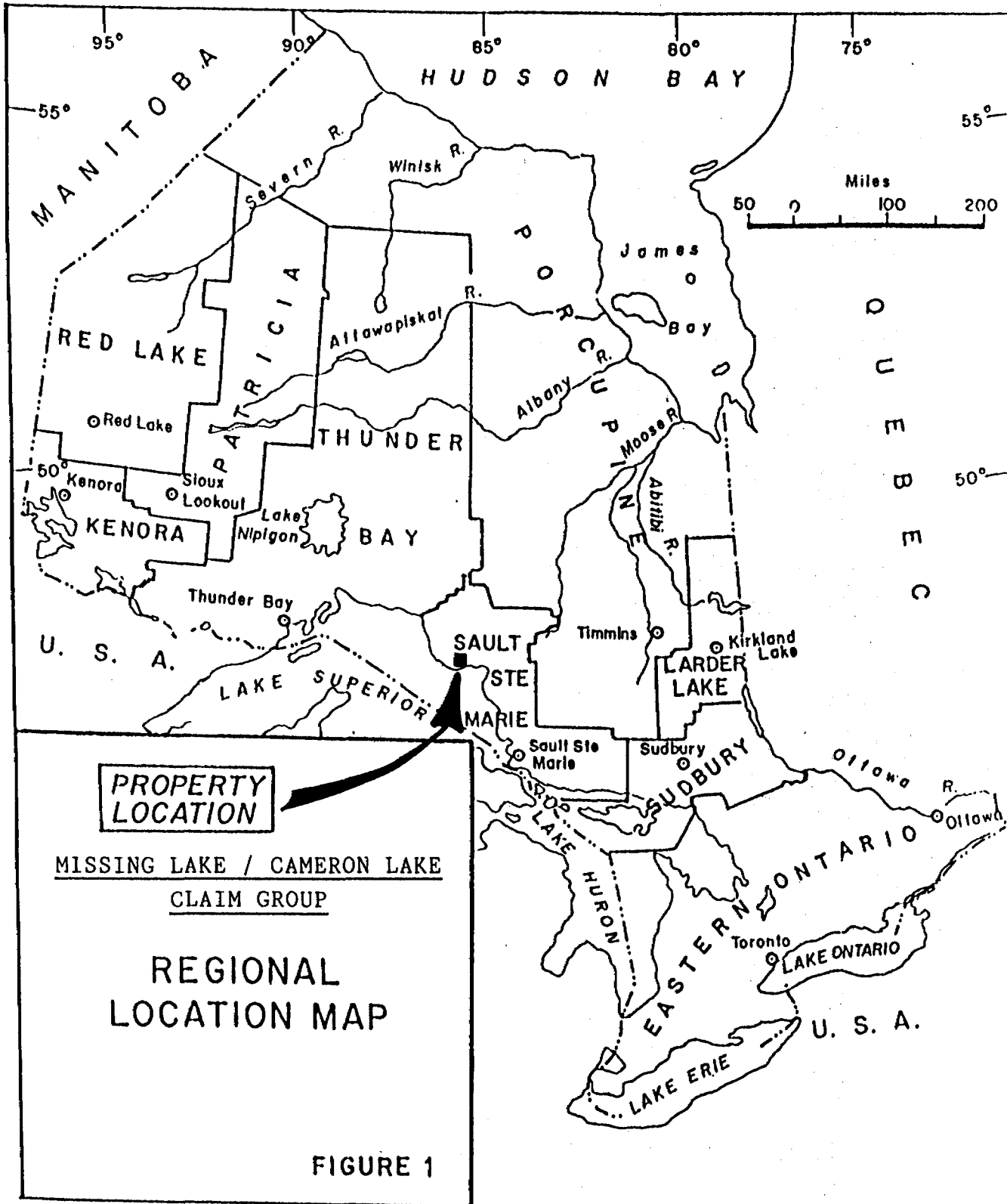
Access to the claim group can best be accomplished by float equipped aircraft from Hawk Junction. Heavy equipment and supplies can be transported to a point 7.5 miles north of the claims by means of a recently completed access road to the Magnacon Gold Prospect (Flanagan-McAdam/Muscocho/Windarra). Helicopter support is then required.

GEOLOGICAL SETTING

The general geology of the Mishibishu Lake Greenstone Belt has been described most recently by Reid (1987) in the 1987 Summary of Field Work, published by the Ministry of Northern Development and Mines. Reid's general map is reproduced below without editing as Fig. 3.

As can be seen, the belt is a typical Archean Greenstone Belt, consisting of sequences of mafic to felsic volcanics and chemical & clastic metasediments cut by mafic to felsic dykes and sills, and bound by granitic plutonic and batholithic rocks. On a more detailed scale, the Mishibishu Lake Greenstone Belt is made somewhat unique by an abundance of diabase dykes, that constitute an unusually high percentage of the total rock observed.

At the present time, the targets of most economic significance in the area, are a number of "deformation zones" that are locally accompanied by intense alteration and gold mineralization. These zones, at least those which have been



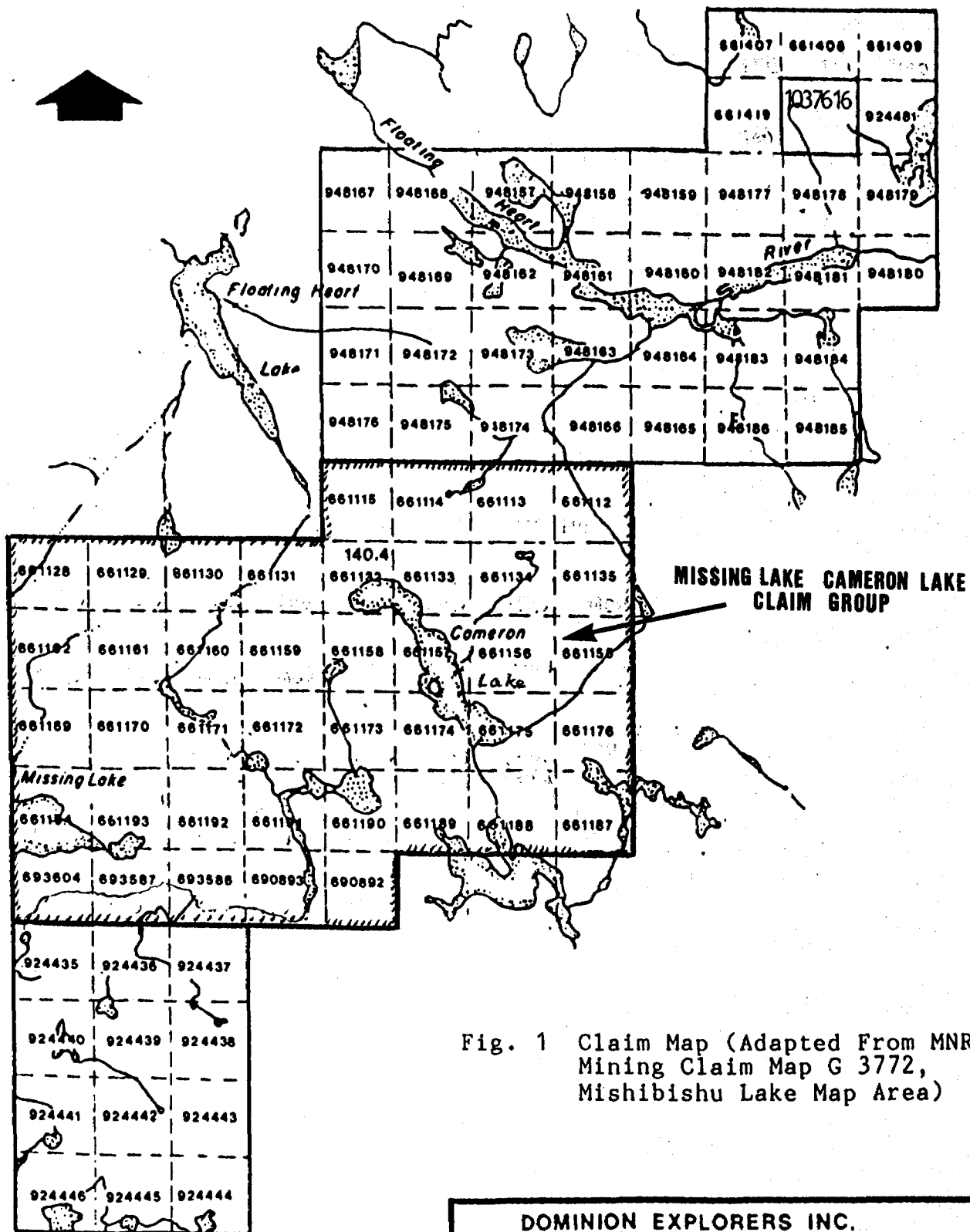


Fig. 1 Claim Map (Adapted From MNR Mining Claim Map G 3772, Mishibishu Lake Map Area)

DOMINION EXPLORERS INC.	
WASABI RESOURCES LTD.	
O'BRIEN ENERGY & RESOURCES LTD.	
MISSING LAKE PROPERTY	
MINING RIGHTS	
DATE : 1987	DRAWN BY :
	SCALE : 1" = 40 chains

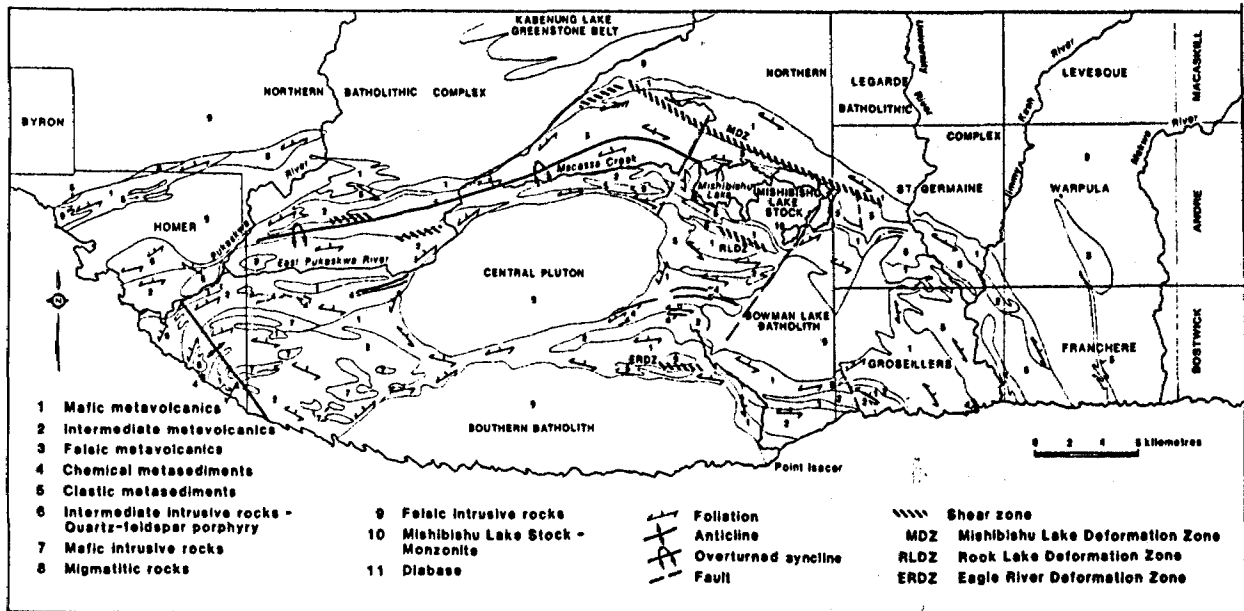


Fig 3. General Geology of the Mishibishu Lake Greenstone Belt (Reproduced without editing from Reid, 1987)

identified to date are shown on Fig.3. The gold mineralization is generally accompanied by arsenopyrite with the exception of that found in the Eagle River Deformation Zone. Other accessory minerals include pyrite, chalcopyrite, and galena.

The forty one claims which are the subject of this report are situated between the Eagle River and Rook Lake Deformation Zones as defined on Reid's Map (Fig. 3). They are located within a narrow wedge of "greenstone" that is flanked on three sides by the Bowman Lake Batholith, the Central Pluton and the Southern Batholith. It has excellent possibilities for hosting structures favourable for the localization of gold mineralization.

WORK PROGRAM

An existing cut grid was utilized for the sample collection. The grid Baseline is oriented at 080 degrees with Crosslines oriented at 170 degrees and located at 400 foot intervals. The crosslines were locally extended by hipchain and compass when the grid lines failed to reach the property boundary. Samples were collected at 100 foot intervals along the grid.

The preferred horizon was the "B", although "A" Horizon (organic) was utilized when the "B" Horizon was lacking. The samples were collected by grub hoe from depths of 3" to 15". They were placed in kraft soil sample bags, dried partially and forwarded to Bondar Clegg & Co.'s laboratory in Ottawa, Ontario for analysis.

At the laboratory they were dried and sieved to -80 fraction and analysed for Gold, Silver, Copper, Lead, Zinc and Arsenic. The gold analysis utilized an aqua regia extraction method, followed by determination by Fire Assay and Atomic

Absorption. The arsenic analysis method utilized extraction by HNO₃-HClO₄ and a colourimetric finish. The remaining elements were extracted by HCl-HNO₃ (1:3), and analysed by Atomic Absorption. In the case of the organic samples, a -10 fraction was used. Gold in this case was extracted by aqua regia, and analysed by fire assay and a DC Plasma technique.

The resulting data were plotted at a scale of 1" = 500 ft, and are included with this report as Figs 4 (As/Au), 5 (Cu/Ag) and 6 (Pb/Zn).

DISCUSSION OF RESULTS

Using 20 ppb as a threshold value for anomalous gold values (background of < 5 ppb), there appear to be three distinct but discontinuous anomalous features on the claim group. These are shown on Fig 4. Anomalous Trend No. 1 extends from the west boundary (Line 44 West) eastwards parallel to the Baseline to Line 16 East. It consists of scattered single station and two line anomalies occurring within 1200 foot wide zone. Anomalous values range from 20 ppb to 770 ppb Gold. There do not appear to be any associated anomalous values of the other elements analysed for.

A second anomalous trend (Trend No. 2) occurs in the northeast corner of the claim group, commencing on the east side of Cameron Lake. This trend is approximately the same width and character as Trend No. 1, and appears to represent the same source as No.1, having been offset to the north in the order of 1200 feet. The highest single anomalous value within this trend is a 99 ppb Gold.

The third feature is a very weak east - west trending feature that extends from approximately 10 South on Line 40 West to 22 South on Line 12 East. This feature (Trend NO. 3) is defined only by five anomalous samples ranging from 40 to 200 ppb Gold. Of the other five elements analysed for, there are no associated anomalous targets within this zone.

CONCLUSIONS & RECOMMENDATIONS

The Geochemical (soil) survey conducted on the Missing Lake-Cameron Lake Property does not at first glance appear to have detected any extremely anomalous nor extensive and persistent anomalies in gold nor any of the six elements analysed for. There were however three broadly defined trends which contain scattered anomalous values for Gold. These anomalous trends should not be dismissed too lightly, since the area in which they occur is known to contain very little outcrop.

It is recommended that additional detailed soil sampling be carried out in close proximity to several of the more anomalous

values, in an effort to delineate more persistent targets. At the same time, routine prospecting and rock sampling should be completed along the above mentioned anomalous trends. This type of program might enable one to outline potential targets for stripping, trenching and ultimate drilling.

A program of this type is anticipated to cost the following:

PHASE 1

SOIL SAMPLING (400 Samples @ \$25./sam)	\$ 10,000.00
GEOLOGICAL MAPPING (Anomalous Trends)	6,000.00
PROSPECTING & ROCK SAMPLING	10,000.00
STRIPPING & TRENCHING	10,000.00
SUPERVISION & REPORT	4,000.00
AIRCRAFT SUPPORT	<u>4,000.00</u>
SUBTOTAL	\$ 44,000.00
CONTINGENCY & OVERHEAD	<u>6,000.00</u>
TOTAL PHASE 1	\$ 50,000.00

A drill program will be required if results are found to be encouraging.

Respectfully submitted,

Seymour Sears

Seymour M. Sears, B.A., B.Sc.

Wawa, Ontario
Dec, 1987

REFERENCES

- 1977: Bennett, G. and Thurston, P.C.
Geology of the Pukaskwa River - University River Area,
District of Algoma and Thunder Bay; Ontario Division of
Mines, Geoscience Report 153, 60 p. Accompanied by Maps
2332 and 2333, scale 1:63360 or 1 inch to 1 mile, and chart.
- 1986: Bowen, R.P.
Mishibishu Lake Area, Districts of Algoma and Thunder Bay;
p 107-110 in Summary of Field Work, 1986, Ontario Geological
Survey, Miscellaneous Paper 132, 435p.
- 1985: _____
Mishibishu Lake Area, Districts of Algoma and Thunder Bay;
p 78-82 in Summary of Field Work, 1985, Ontario Geological
Survey, Miscellaneous Paper 126, 351p.
- 1987: Reid, R.G.
Mishibishu Lake Area, Districts of Algoma and Thunder Bay;
p 138-145 in Summary of Field Work and Other Activities,
1987, Ontario Geological Survey, Miscellaneous Paper 137,
429p.
- Miscellaneous Assessment Files of the Wawa Office of the Ontario
Geological Survey.

STATEMENT OF QUALIFICATIONS

I, Seymour M. Sears, of Wawa, Ontario do certify that:

1. I am a consulting geologist for Sears, Barry and Associates, P. O. box 2058, Wawa, Ontario.
2. I am a B.Sc. Graduate in Geology and a B.A. Graduate in Psychology from Mount Allison University, Sackville, New Brunswick.
3. I have been practicing my profession continuously since 1972.
4. I am a Fellow of the Geological Association of Canada.
5. I have not received nor do I expect to receive any interest, direct or indirect in the Claims of Dominion Explorers Inc. & Wasabi Resources Ltd.

Respectfully submitted,

Seymour Sears

22 Caverhill Street
P.O. Box 2058
Wawa, Ontario
POS 1K0
December, 1987

Seymour M. Sears, B. A., B. Sc.
Geologist



#195/87

Mir



42C03SW0068 2.10699 MISHIBISHU LAKE

900

MISHIBISHU LAKE AREA

Type of Work: **SOIL GEOCHEMISTRY**

Claim Holder(s): **WASABI RESOURCES LTD.**

Prospector's Licence No.: **T.986 -**

Address: **910 - 7th Ave Southwest, Calgary, Alta., T2P 3N8**

Survey Company: **SEARS, BARRY & ASSOCIATES**

Date of Survey (from & to): **28 Day 09 Mo. 87** to **01 Day 10 Mo. 87**

Total Miles of line Cut: **0**

Name and Address of Author (of Geo-Technical report): **Seymour M. Sears, P.O. Box 2058, Wawa, Ontario, P0S 1K0**

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	
For each additional survey: using the same area: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days: **1257**

Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys.

Expenditures (excludes power stripping)

Type of Work Performed: **Assays**

Performed on Claim(s): **SSM 66112 et al**

Office: **APR 22 1988**

Calculation of Expenditure Days Credits

Total Expenditures: **\$ 26,767.80**

Total Days Credits: **15**

Result: **1784.5**

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: **Nov 1 / 87**

Recorded Holder or Agent (Signature): **Seymour Sears**

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: **Seymour M. Sears, P.O. Box 2058, Wawa, Ontario P0S 1K0**

Date Certified: **Nov 1 / 87**

Certified by (Signature): **Seymour Sears**

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
SSM	66112	36	SSM	66171	44.4
	66113	60		66172	44.4
	66114	36		66173	44.4
	66115	60		66174	44.4
	661128	43.7		66175	37.6
	661129	44.4		66176	44.4
	661130	44.4		66187	44.4
	661131	44.4		66188	24.6
	661132	44.4		66189	44.4
	661133	44.4		66190	24.6
	661134	44.4		66191	44.4
	661135	44.4		66192	44.4
	661155	44.4		66193	44.4
	661156	44.4		66194	49.6
	661157	44.4		690892	36
	661158	44.4		690893	44.4
	661159	44.4		693586	44.4
	661160	44.4		693587	44.4
	661161	44.4		693604	44.4
	661162	44.4			
	661169	44.4			
	661170	44.4			

Total number of mining claims covered by this report or work: **41**

For Office Use Only

Total Days Cr. Recorded: **2555.9**

Date Recorded: **Nov 2 1987**

Date Approved as Recorded: **12 April 88**

Mining Recorder: **[Signature]**

Graph Director: **[Signature]**



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 (Soil)
Township or Area MISHIBISHU LAKE AREA
Claim Holder(s) WASABI RESOURCES / DOMINION EXPL.
Survey Company SEARS, BARRY & ASSOCIATES INC.
Author of Report Seymour M. Sears
Address of Author Box 205B, Wawa, Ontario, P0S 1K0
Covering Dates of Survey Sept 19 - Nov 1, 1987
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

SSM 66112
(prefix) (number)

et al

See attached List

If space insufficient, attach list

<u>SPECIAL PROVISIONS CREDITS REQUESTED</u>	<u>DAYS per claim</u>
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 _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Dec 31/87 SIGNATURE: Seymour Sears
Author of Report or Agent

Res. Geol. _____ Qualifications 2.5914

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 41

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) _____

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 _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken All Claims Listed, i.e. 66112 et al.

Total Number of Samples 1617

Type of Sample "B" Horizon, "A" Horizon (Alternate)
(Nature of Material)

Average Sample Weight 1 lb

Method of Collection Grub Hole

Soil Horizon Sampled "B" & "A" Horizon

Horizon Development well to poor

Sample Depth 3" - 15"

Terrain Rolling, swampy and hilly

Drainage Development well drained except locally

Estimated Range of Overburden Thickness 0 - 50 feet

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis -80 except
Hummer sample, these being -10.

General See work program description
inside report

ANALYTICAL METHODS

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

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

Others Au

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (1617 tests)

Name of Laboratory Bondar Clegg & Co.

Extraction Method See inside Report

Analytical Method " " "

Reagents Used " " "

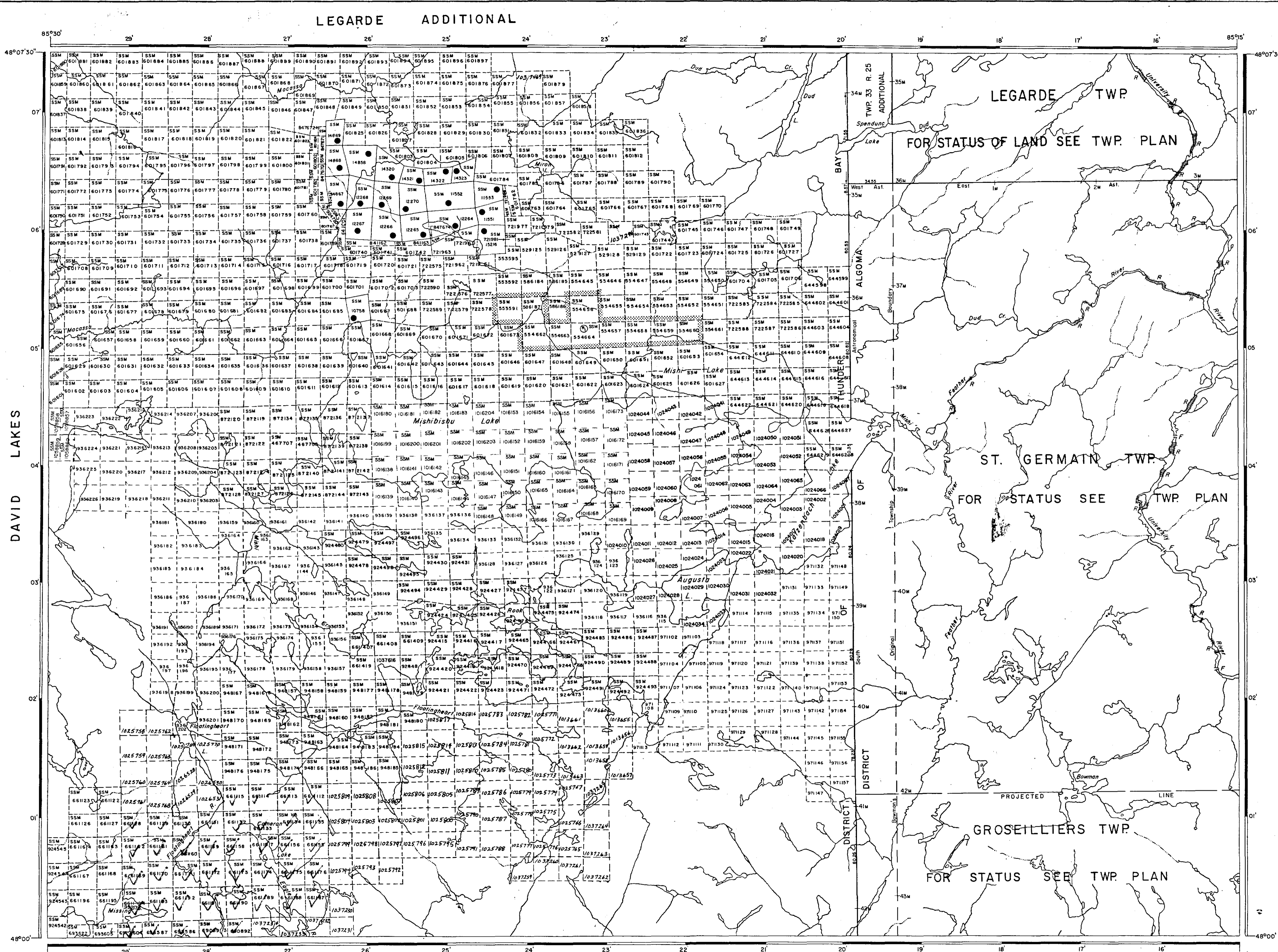
General _____

LIST OF CLAIMS

SSM 661112
SSM 661113
SSM 661114
SSM 661115
SSM 661128
SSM 661129
SSM 661130
SSM 661131
SSM 661132
SSM 661133
SSM 661134
SSM 661135
SSM 661155
SSM 661156
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SSM 661187
SSM 661188
SSM 661189
SSM 661190
SSM 661191
SSM 661192
SSM 661193
SSM 661194
SSM 690892
SSM 690893
SSM 693586
SSM 693587
SSM 693604

REFERENCES
AREAS WITHDRAWN FROM DISPOSITION
 M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
	W. 50/86	21/5/86	M.S.	



REFERENCES

LEGEND

- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC.
- UNSURVEYED LINES: LOT LINES, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED 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	◊
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.

SCALE: 1 INCH = 40 CHAINS

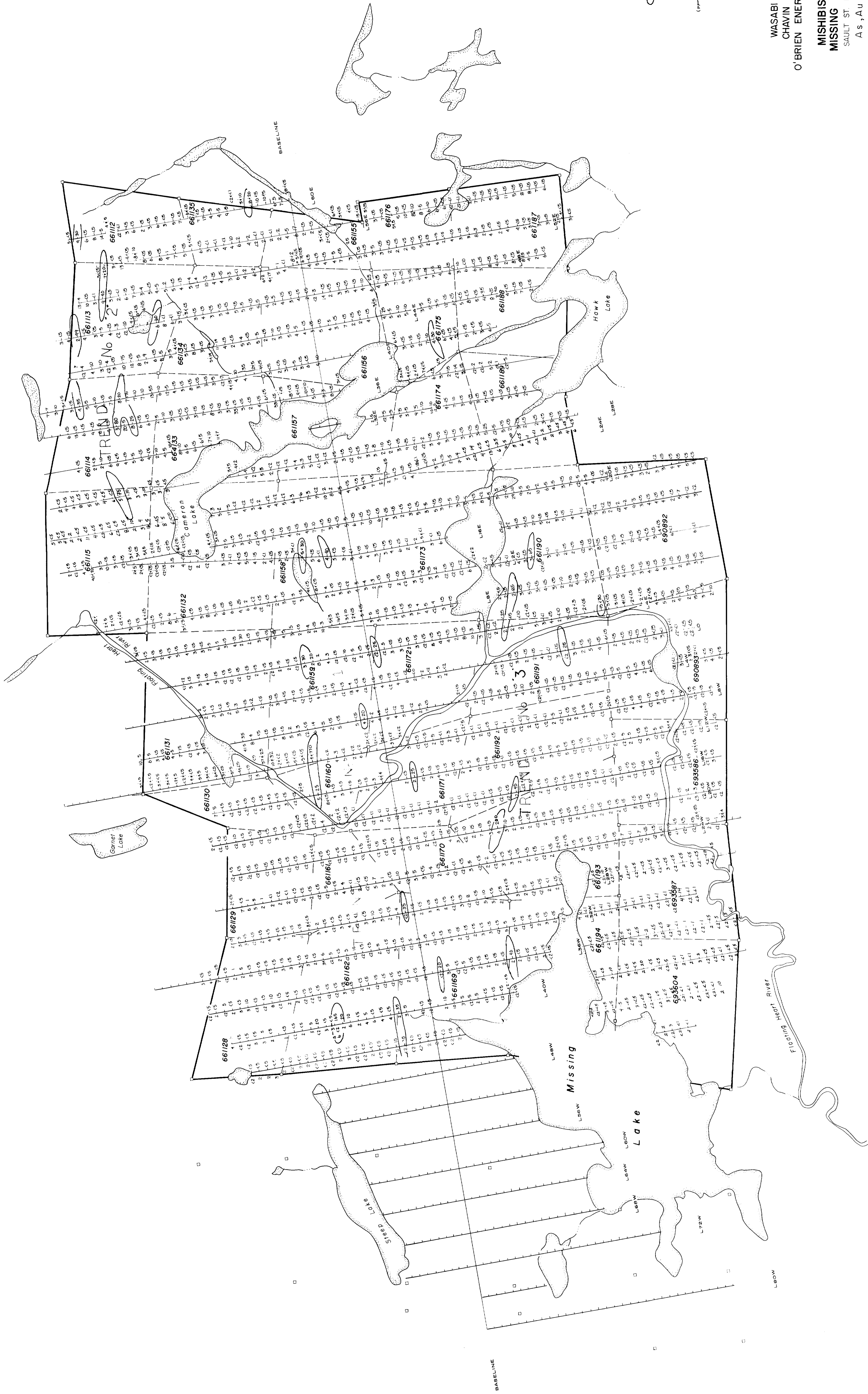
FEET: 0 1000 2000 4000 6000 8000
 METRES: 0 200 400 600 800 1000 1200 1400 1600 1800 2000

DATE OF ISSUE:
 MAR 25 1988
 SAULT STE. MARIE
 MINING RECORDER'S OFFICE

AREA
MISHIBISHU LAKE
 M.N.R. ADMINISTRATIVE DISTRICT
WAWA
 MINING DIVISION
 SAULT STE. MARIE
 LAND TITLES / REGISTRY DIVISION
 ALGOMA

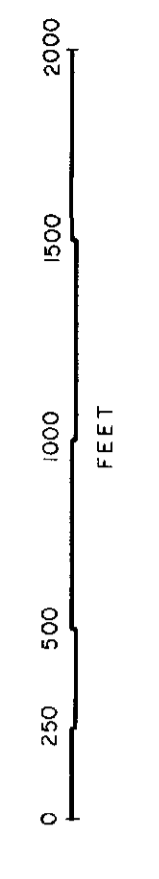
Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

Date: FEBRUARY, 1987
 Number: **G-3772**



WASABI RESOURCES LTD.
 CHAVIN OF CANADA LTD.
 O'BRIEN ENERGY & RESOURCES LTD.

MISHIBISHU LAKE AREA
 MISSING LAKE PROPERTY
 SAULT ST. MARIE MINING DIVISION
 A s, A u GEOCHEMISTRY



Toronto, Ontario
 December 1987
 DATA BY: SEARS, BARRY & ASSOCIATES INC.

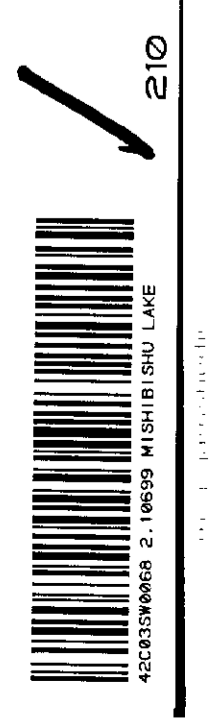
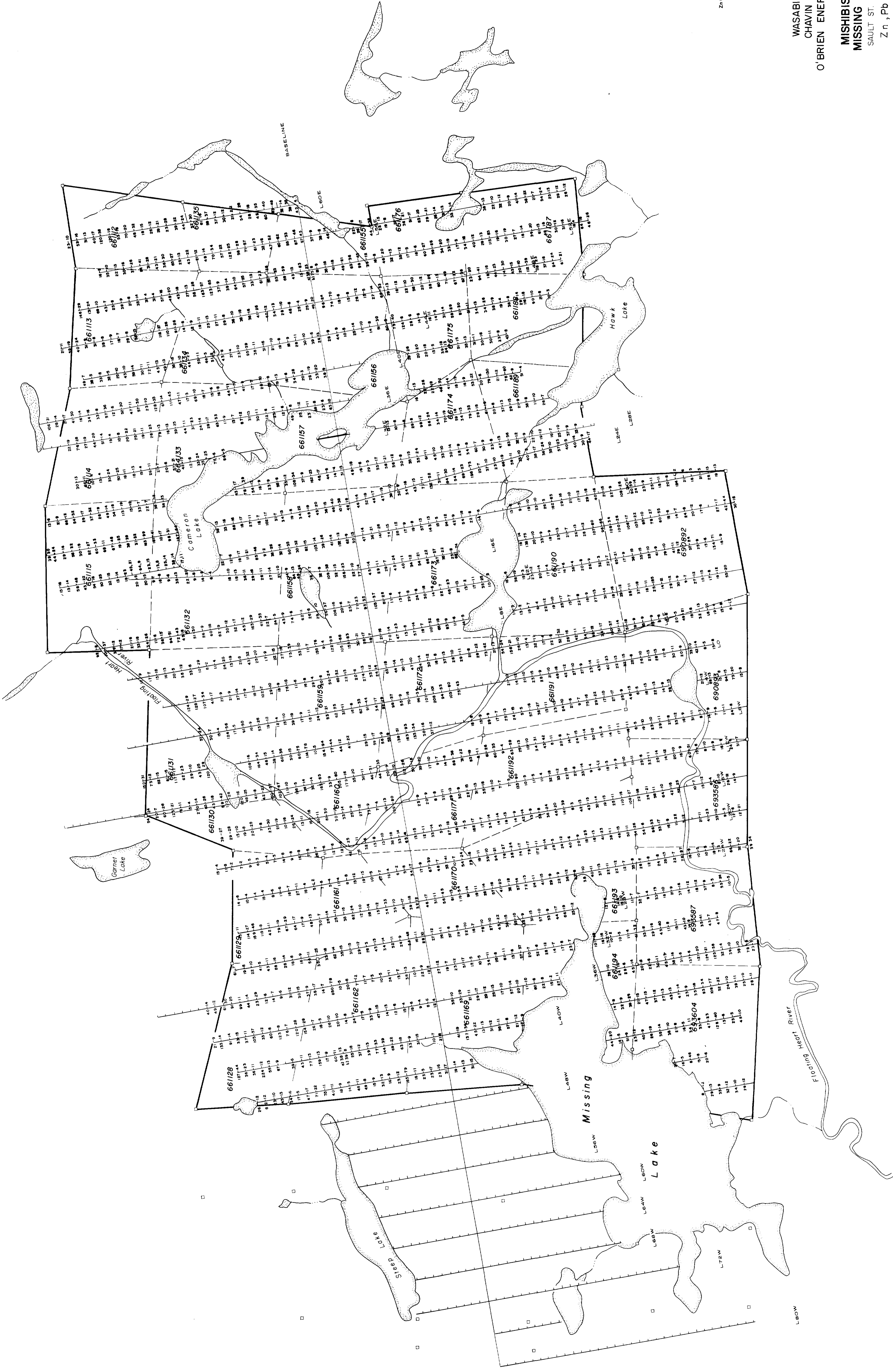
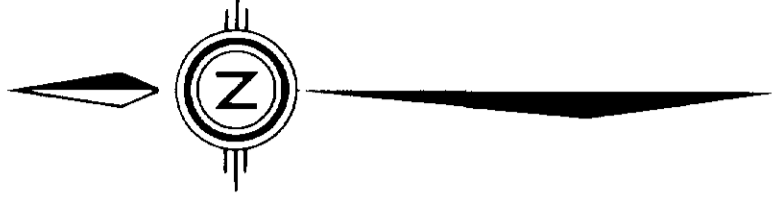


FIGURE 4



WASABI RESOURCES LTD.
 CHAVIN OF CANADA LTD.
 O'BRIEN ENERGY & RESOURCES LTD.

MISHIBISHU LAKE AREA
MISSING LAKE PROPERTY
 SAULT ST. MARIE MINING DIVISION
 Zn, Pb GEOCHEMISTRY

2.10689



Toronto, Ontario
 December 1984
 DATA BY SEARS, BARRY & ASSOCIATES INC

