

32D04NW0103 2.8631 GAUTHIER

010

GEOCHEMICAL AND VLF-EM (NSS) SURVEY REPORT

ON THE

PERRON PROPERTY

NORTHLAND GRID

GAUTHIER TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT OF TIMISKAMING, ONTARIO

FOR

ALEXANDER H. PERRON

RECEIVED

11 B 28 1985

MINING LANDS SECTION

RECEIVED

11 B

MINING LANDS SECTION

NOVEMBER 11, 1985

MARY GREER

GEOPHYSICAL TECHNICIAN

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

DEC 27 1985

KIRKLAND LAKE, ONT.



32D04NW0103 2.8631 GAUTHIER

010C

TABLE OF CONTENTS

INTRODUCTION. 1, 2

PROPERTY DESCRIPTION. 2

LOCATION AND ACCESS 2

PREVIOUS WORK 3

SURVEY PROCEDURE. 3

TOPOGRAPHY. 3

GENERAL GEOLOGY 4

ECONOMIC GEOLOGY. 4, 5

INSTRUMENTATION 6, 7

PRESENTATION AND DISCUSSION OF RESULTS. 7, 8

CONCLUSIONS AND RECOMMENDATIONS 8, 9

BIBLIOGRAPHY. 10

CERTIFICATE 11

GEOCHEMICAL AND VLF-EM (NSS) SURVEY REPORT
ON THE
PERRON PROPERTY
NORTHLAND GRID
GAUTHIER TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

INTRODUCTION

The Northland Grid was recorded by Alexander H. Perron on May 29, 1981.

A geophysical grid, at a 400 foot line spacing, was subsequently established by A. H. Perron in March, 1982. Two geophysical surveys, (Electromagnetic and Magnetic) were completed over the entire Northland Grid. In May of 1984, 200 foot intermediate lines were cut and a detailed Magnetometer survey performed.

In August of 1985, a Geochemical survey and an electromagnetic survey was completed over the entire grid. The EM survey used a different station than the first survey to assist in further interpretation. The Geochemical survey was also performed to further assist in defining any anomalous zones.

The surveys were conducted by Tom Obradovich of Kirkland Lake, Ontario, and assisted by students of Sir Sanford Fleming College.

All drafting and interpretation was completed by Mary Greer.

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

DEC 27 1985

KIRKLAND LAKE, ONT.

The purpose of this report is to briefly describe the results obtained in said surveys.

The anomalies detected therefrom are shown on the accompanying plan maps at a scale of one inch to 200 feet, that form an integral part of this report.

PROPERTY DESCRIPTION

The Northland Grid consists of a contiguous block of six (6) unpatented mining claims, located in Gauthier township, Larder Lake Mining Division, District of Timiskaming, Ontario, and are further described as follows:

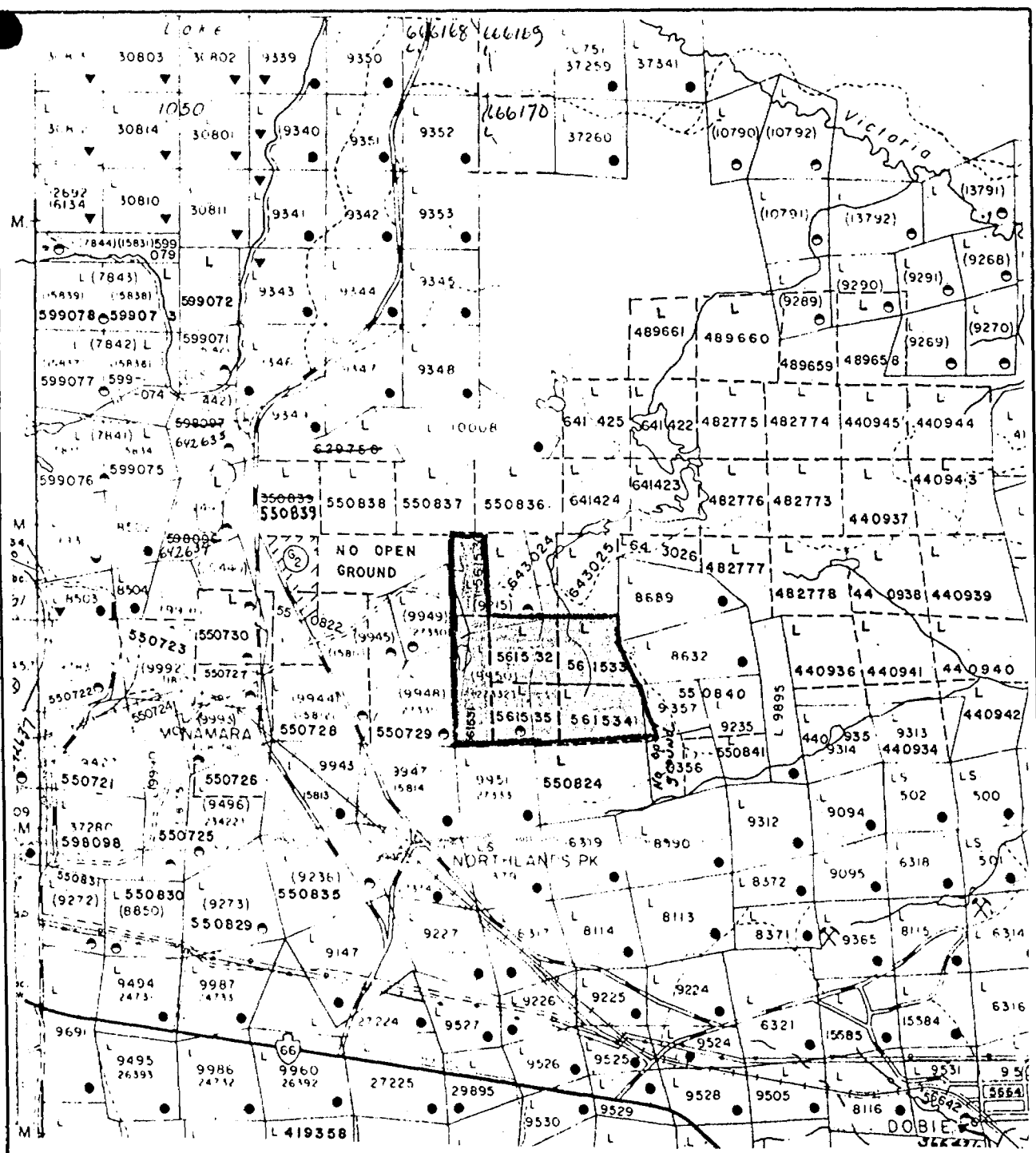
<u>Claim No.</u>	<u>No. of Claims</u>
L-561530 - 535 (inclusive)	6

Ownership of the following claims has been attested to by:
Alexander H. Perron of 103 Government Road East, Kirkland Lake, Ontario, and was not independently ascertained by the writer.

LOCATION AND ACCESS

The Northland Grid is found in the central-western part of Gauthier township, approximately one mile southeast of Victoria Lake.

The property is located approximately eight (8) miles east of the town of Kirkland Lake, Ontario, on highway No. 66, then one mile north on the Esker Lakes Provincial Park access road. (See figure 1a and 1b).



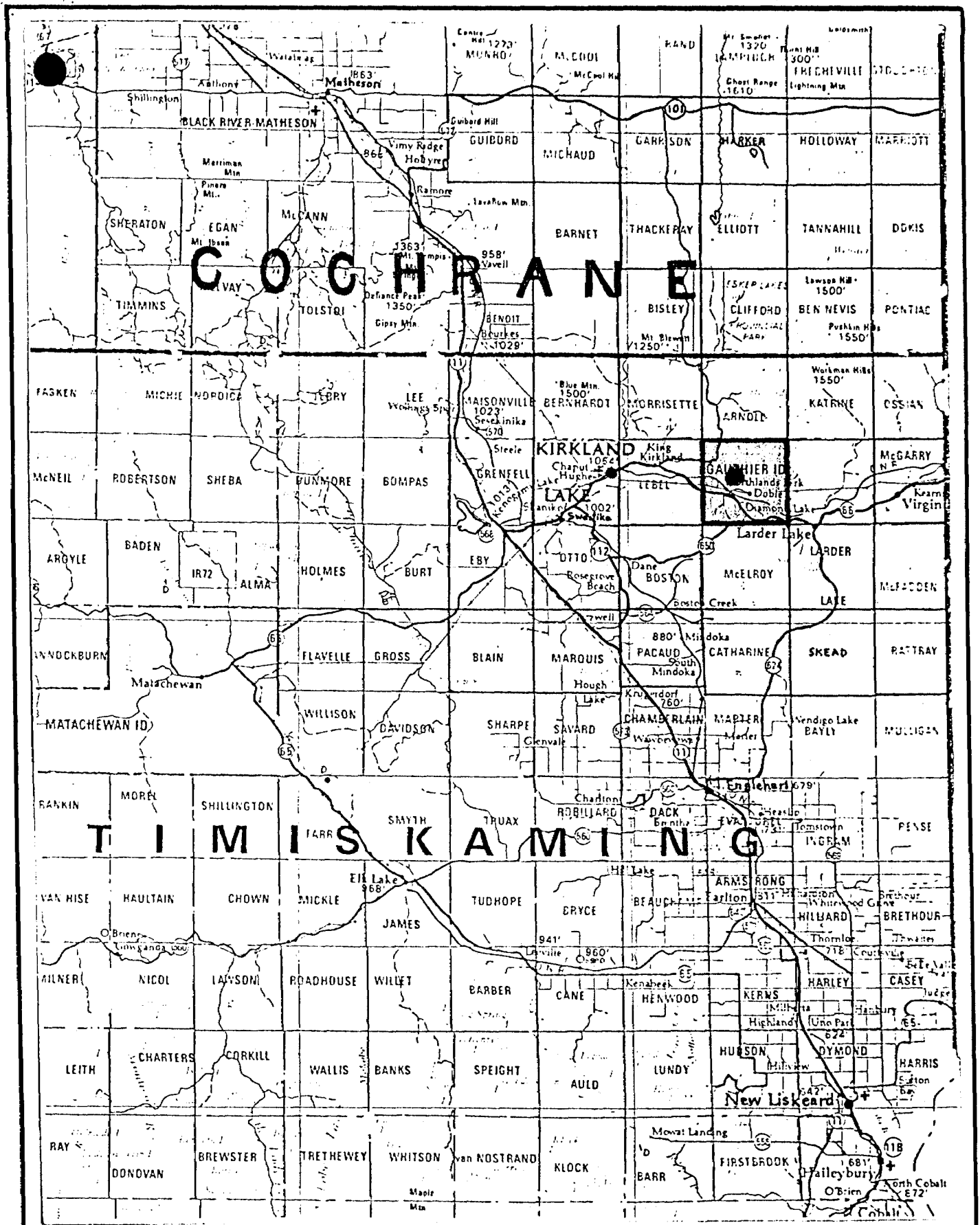
Claim Location Map

Scale: 1 inch to 1/2 mile

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

(Taken from a Mar. 1983 claim map)

DEC 27 1985 Figure 1a
KIRKLAND LAKE, ONT.

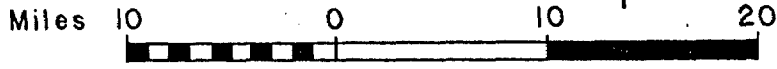


RESIDENT GEOLOGIST
 ONTARIO GOVERNMENT
 RECEIVED

Location Map

Figure 1b

DEC 27 1965



KIRKLAND

PREVIOUS WORK

The western section of the Northland Grid has had an airborne magnetometer survey carried out over it. An area of higher magnetic susceptibility was found in the southern half. An airborne spectrometer survey was also conducted without locating any anomalies on the Northland Grid. See the Regional Geologist files for the previous geophysical surveys conducted by Alexander H. Perron.

SURVEY PROCEDURE

A baseline was established west from the #1 claim post of claim L-561534, for a total footage of 3,100 feet. A grid system of picket lines at 400 foot spacings, with stations every 100 feet, was cut at right angles to the baseline.

For the Geochemical survey, «B» horizon samples were taken at each 100 foot station along the picket lines.

Readings were taken at 100 foot intervals along the picket lines, for the VLF-EM survey.

TOPOGRAPHY

The general terrain of the Northland Grid is flat to very gently rolling drifts. A small lake is found on the western boundary. The grid is covered by spruce, poplar and jack pine with a few open marshy sections.

One forestry access road encircles the claims to the north.

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

DEC 27 1985
KIRKLAND LAKE, ONT.

GENERAL GEOLOGY

According to the O.D.M. Geological Map No. 50C covering the Township of Gauthier, little is known about the underlying bedrock of the Northland Grid due to the drift covering.

However, the general geology of the surrounding area appears to be intrusive syenitic rocks mainly syenite porphyry and possibly acidic volcanics consisting mainly of trachyte flows. There is also an indication of a Keweenaw or Matachewan diabase dike striking north-south.

ECONOMIC GEOLOGY

The Northland Grid was at one time part of twenty (20) claims held by Northland Gold Mines Ltd. (1922). Between 1922 and 1929, exploration work was conducted which included diamond drilling of seventeen (17) holes, surface exploration, and underground work. Two shafts were sunk, No. 1 and No. 2. The No. 1 shaft was sunk to a depth of 1,020 feet and the No. 2 shaft was sunk to a depth of 50 feet. Levels were established at 250, 500, 750, and 1,000 feet, most of the work was conducted on the 1,000 foot level.

In March 1940, the company was reorganized as Northland Mines and further surface work was carried out in the southern claims, consisting of 2,686 feet of diamond drilling.

A fault was found on the 1,000 foot level striking N 80° W and dips steeply to the south. This fault consists of a «mud seam» and was not noticed on the 500 foot level nor at surface. The maximum width is approximately two feet and the wall rock is mineralized. The drilling conducted in the east

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

DEC 27 1985

KIRKLAND LAKE, ONT.

reveals a zone of strong shearing and brecciation along the greywacke-syenite contact which may be a continuation of the fault on the 1,000 foot level.

Mineralization was only found at the No. 2 shaft.

Gold values were reported at a number of locations but no ore was successfully found on the property.

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

DEC 21 1965
KIRKLAND LAKE, ONT.

INSTRUMENTATION

Electromagnetic Survey:

The VLF-EM method uses as a source, one of the main submarine communications transmitters in the 15 to 25 kHz band found throughout the world. These submarine communication radio waves travel in a single mode parallel to the surface of the earth along the earth-air surface.

Without vertical conductors and travelling over flat ground, the magnetic field component of this radio or surface wave is horizontal and perpendicular to it's direction of travel.

VLF instruments are capable of picking up these structures that change the direction of the waves by measuring the tilt angle of the major axis of the polarization ellipse. This is illustrated by the tilt angle being zero on flat ground, but when a conductor is present the tilt angle will acquire a finite value. The direction of tilt indicates the direction of the conductor. Calculations of such parameters as depth, depth extent, dip and width of the conductor is very minimal.

The VLF easily illustrates the location of the upper limit of dipping structures which can be seen or plotted as VLF profiles as areas of greatest change in tilt angle per unit of distance.

The instrument used for this EM survey was a Geonics VLF-EM16 unit. The sensitivity of this unit is $\pm 1\%$ for the in-phase and $\pm 1\%$ for the quadrature. The operating frequency for the EM16 is from 15-25 kHz and the station selection is made by plug-in units.

REGISTRY GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

DEC 21 1965

KIRKLAND LAKE, ONT.

For the purpose of this EM survey the station used was Annapolis, Maryland, which has a frequency of 21.4 kHz.

All the readings were taken facing east at 100 foot intervals and the topography was noted for future use in the interpretation of the EM results.

PRESENTATION AND DISCUSSION OF RESULTS

Electromagnetic Survey:

The field data is presented on a map at a horizontal scale of one inch to 200 feet, drawing number 85-N-1a found in the back pocket of the report.

The VLF-EM data is illustrated as profiled data along the survey lines and is plotted at a vertical scale of one inch = 40% with the positive to the right and the negative to the left.

Minor VLF responses were noted on the property. None of these responses had any continuous patterns. And no conductors showed enough of a cross over or dip to illustrate anything other than surface or overburden interferences.

Geochemical Survey:

The field data is presented on a map at a horizontal scale of one inch to 200 feet, drawing number 85-N-4 found in the back pocket of this report.

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
LICENSED

1985

KENNEDY LAKE, ONT.

The geochemical data is illustrated as contoured data along the survey lines.

Some areas could not be accessed due to high water levels.

The process for assaying the samples were as follows:

The samples were dried and crushed to 100 mesh and then homogenized. From the total amount of material, 10 grams of the sample were analyzed.

The 10 gram sample was dissolved in hydro bromic acid and a cold hydro bromic acid digestion process was used.

No traces of gold was found in the samples. Several samples that had a high ppb count of gold were tested again to ensure accuracy, and verify whether the gold was there by mechanical means or not.

CONCLUSIONS AND RECOMMENDATIONS

No strong conductors were found to make any constructive conclusions on the Northland Grid.

The geochemical survey may possibly have been improperly sampled. It was noted that many samples assayed contained leached material. No gold could possibly be found in this type of material. Most of the claim group lies over large glacial deposits. The most predominate ore being the Munro Esker. It is difficult to conclude how beneficial the survey would be because of the depth to bedrock.

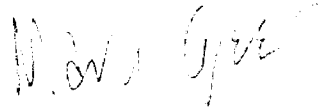
RESIDENT GEOLOGIST
CENTRAL STATE UNIVERSITY
RECEIVED

DEC 2 1988

KIRKLAND LAKE, ONY.

Any further work performed on the ground should involve a deep diamond drill program. There are no further recommendations to be made at this time.

Respectfully submitted,



November 11, 1985

Mary Greer
Geophysical Technician

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

DEC 27 1985
KIRKLAND LAKE, ONT.

BIBLIOGRAPHY

Jas. E. Thomson and A.T. Griffis

1941: Vol. L, Part VIII, 1941
Geology of Gauthier Township, East
Kirkland Lake Area
Ontario Department of Mines

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

DEC 27 1965
KIRKLAND LAKE, ONT.

C E R T I F I C A T E

I, Mary Greer, of Kirkland Lake, Ontario, do hereby certify:

- 1) That I am a Geophysical Technician and reside at:
49 McKelvie Avenue, Kirkland Lake, Ontario, P2N 2K6
- 2) That I graduated from Sir Sandford Fleming College at
Lindsay, Ontario, in 1978, with a diploma as a Geological
Technician.
- 3) That I was employed as a Geophysical Technician by H.E.
Neal and Associates Limited for 18 months.
- 4) That I have been practising my profession for a period
of five (5) years and I am qualified to write this report.
- 5) That I did not participate in this survey.

Nov. 11 1985
Date

Mary Greer
Mary Greer,
Geophysical Technician

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

DEC 27 1985

KIRKLAND LAKE, ONT.



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

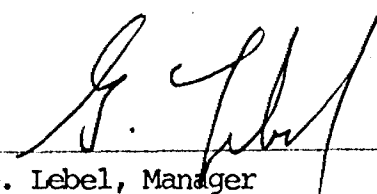
Certificate No. 62171

Date: Jan. 21, 1986

Received Jan. 16, 1986 13 Samples of soils

Submitted by Perrons', Kirkland Lake, Ontario

SAMPLE NO.	GOLD PPB
L28W-10N	10
11N	5
12N	10 15
13N	Nil
14N	Nil
15N	5
16N	Nil
17N	5
18N	Nil
19N	Nil
20N	30 20
21N	Nil
22N	Nil

Per 
G. Lebel, Manager



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

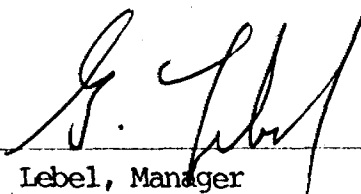
Certificate No. 62171

Date: Jan. 21, 1986

Received Jan. 16, 1986 13 Samples of soils

Submitted by Perrons', Kirkland Lake, Ontario

SAMPLE NO.	GOLD PPB
L28W-10N	10
11N	5
12N	10 15
13N	Nil
14N	Nil
15N	5
16N	Nil
17N	5
18N	Nil
19N	Nil
20N	30 20
21N	Nil
22N	Nil

Per 
G. Lebel, Manager



32D04NW0103 2.8631 GAUTHIER

900

Type of Survey: **GEOCHEMICAL - GEOPHYSICAL EM**

Claim Holder(s): **ALEX H. PERRON**

Prospector's Licence No.: **K-19026**

Address: **103 GOVERNMENT ROAD EAST, KIRKLAND LAKE, ONTARIO P2N 1A9**

Survey Company: **PERRONS**

Date of Survey (from & to): **25 08 85** to **29 08 85**

Total Miles of Line Cut: **APPROX. 5.5 MILE**

Name and Address of Author (of Geo-Technical report): **MARY GREER, 49 MCKELVIE AVE., KIRKLAND LAKE, ONTARIO P2N 2K6**

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	20
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	20
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	
	Geochemical	
Electromagnetic	Days per Claim	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L-	561530				
	561531				
	561532				
	561533				
	561534				
	561535				

RECEIVED
AUG 05 1985
MINING LANDS SECTION

LAKELAKE
MINING DIV.
RECEIVED
AUG 3 1985
7 8 19 10 11 12 13 14 15 16

Expenditures (excludes power stripping)

Type of Work Performed

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. **6**

Date: **August 30/85**

Recorded Holder or Agent (Signature): *Mary Greer*

For Office Use Only

Total Days Cr. Recorded: **240**

Date Recorded: **AUG 30 1985**

Date Approved as Recorded: *See revised work statement*

Mining Recorder: *[Signature]*

Branch Director: *[Signature]*

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: **MARY GREER, 49 MCKELVIE AVENUE, KIRKLAND LAKE, ONTARIO P2N 2K6**

Date Certified: **August 30/85**

Certified by (Signature): *Mary Greer*

Recorded Holder
ALEX H. PERRON

Township or Area
GAUTHIER TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>20</u> days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ 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.	L 561531 to 535 inclusive

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

10 DAYS ELECTROMAGNETIC
10 DAYS GEOCHEMICAL

L 561530

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

**RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED**
DEC 27 1985

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.

GEOPHYSICAL TECHNICAL DATA

Number of Stations 200 Number of Readings 220
Station interval 100 FEET Line spacing 400 FOOT
Profile scale 1" = ± 40%
Contour interval _____

MAGNETIC

Instrument _____
Accuracy - Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument GEONICS VLF-EM16
Coil configuration VERTICAL & HORIZONTAL
Coil separation INFINITY
Accuracy ± 1%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 21.4 KHZ ANNAPOLIS, MARYLAND
(specify V.L.F. station)
Parameters measured IN-PHASE AND QUADRATURE

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

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 _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken L-561530, L-561531, L-561532, L-561533,
-561534, L-561535

Total Number of Samples 140

Type of Sample SOILS
(Nature of Material)

Average Sample Weight 10 GRAMS

Method of Collection HOE AND SHOVEL

Soil Horizon Sampled «B» HORIZON

Horizon Development GOOD

Sample Depth APPROX. 6 TO 10 INCHES

Terrain GLACIAL DEPOSITS AND PARTS OF
ESKER

Drainage Development POOR

Estimated Range of Overburden Thickness 7' TO 150 FEET

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis 100 MESH

General SAMPLES DRIED, CRUSHED TO 100
MESH, HOMOGENIZED.

10 GRAM SAMPLES ANALYZED.

DISSOLVED IN COLD HYDRO BROMIC ACID.

ANALYTICAL TECHNIQUE

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

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

Others _____

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 SIR SANFORD FLEMING COL-

Extraction Method HYDRO BROMIC ACID, LEGE

Analytical Method _____

Reagents Used _____

General LABORATORY USED:

SIR SANFORD FLEMING COLLEGE,

BOX 8000,

LINDSAY, ONTARIO

K9V 5E6

TELEPHONE: 1-705-324-6908

ATTENTION: MR. MAURICE JOHNSTON

April 4, 1986

Your File: 473/85
Our File: 2.8631

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Madam:

RE: Notice of Intent dated March 7, 1986
Geophysical (Electromagnetic) and
Geochemical Surveys on Mining Claims
L 561530 in Gauthier 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,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: Alex H. Perron
103 Government Road East
Kirkland Lake, Ontario
P2N 1A9

Mary Greer
49 McKelvie Avenue
Kirkland Lake, Ontario
P2N 2K6

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

Resident Geologist
Kirkland Lake, Ontario

Encl.



Recorded Holder	ALEX H. PERRON
Township or Area	GAUTHIER TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 561530
Electromagnetic 10 days	
Magnetometer days	
Radiometric days	
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical 10 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.	

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

--

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> 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.



Ontario

March 24/86

Ministry of
Northern Development
and Mines

March 7, 1986

Your File: 473/85

Our File: 2.8631

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

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,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

DK/mc

Encl.

cc: Alex H. Perron
103 Government Road East
Kirkland Lake, Ontario
P2N 1A9

Mary Greer
49 McKelvie Avenue
Kirkland Lake, Ontario
P2N 2K6

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



Ontario

Ministry of
Northern Development
and Mines

Notice of Intent
for Technical Reports

March 7, 1986

2.8631/473/85

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 the 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 directly 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.



103 GOVERNMENT ROAD EAST - KIRKLAND LAKE, ONTARIO - P2N 1A9 - (705) 567-7057

January 25, 1986

Mr. Arthur Barr,
Land Management Branch,
Whitney Block,
Room 6643,
Queen's Park,
Toronto, Ontario
M7A 1W3

Dear Arthur:

RE: File Number 2.8631/309 and
Mining Recorder's File Number 473/85

Please find enclosed duplicate maps of a Geophysical EM Survey and a Geochemical Survey, submitted as required by the letter of intent (file number 2.8631) sent from your office on November 22, 1985.

Please refer these maps to previously submitted work report, Mining Recorder file number 473/85, to be attached to the survey report already filed (file number 2.8631/309).

Also enclosed is a copy of the assay results from Swastika Laboratories Limited which should also be included with the survey report.

Thank you very much.

Yours truly,

PERRONS

Mary Greer
Geological Technician
MG/p

Encls.



1985 12 20

Your File: 309
Our File: 2.8631

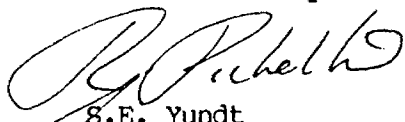
Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

RE: Notice of Intent dated November 22, 1985.
Geophysical (Electromagnetic) and Geochemical
Survey on mining claims L 561531 et al in
Gauthier 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
M7A 1W3
Telephone: 416/965-4888

SH:sc

Encls:

cc: Alex H. Peron
103 Government Rd East
Kirkland Lake, Ontario
P2N 1A9

cc: Mary Greer
49 McKelvie Avenue
Kirkland Lake, Ontario
P2N 2K6

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

cc: ✓ Resident Geologist
Kirkland Lake, Ontario

RESIDENT GEOLOGIST
ONTARIO GOVERNMENT
RECEIVED

DEC 27 1985

KIRKLAND LAKE, ONT.

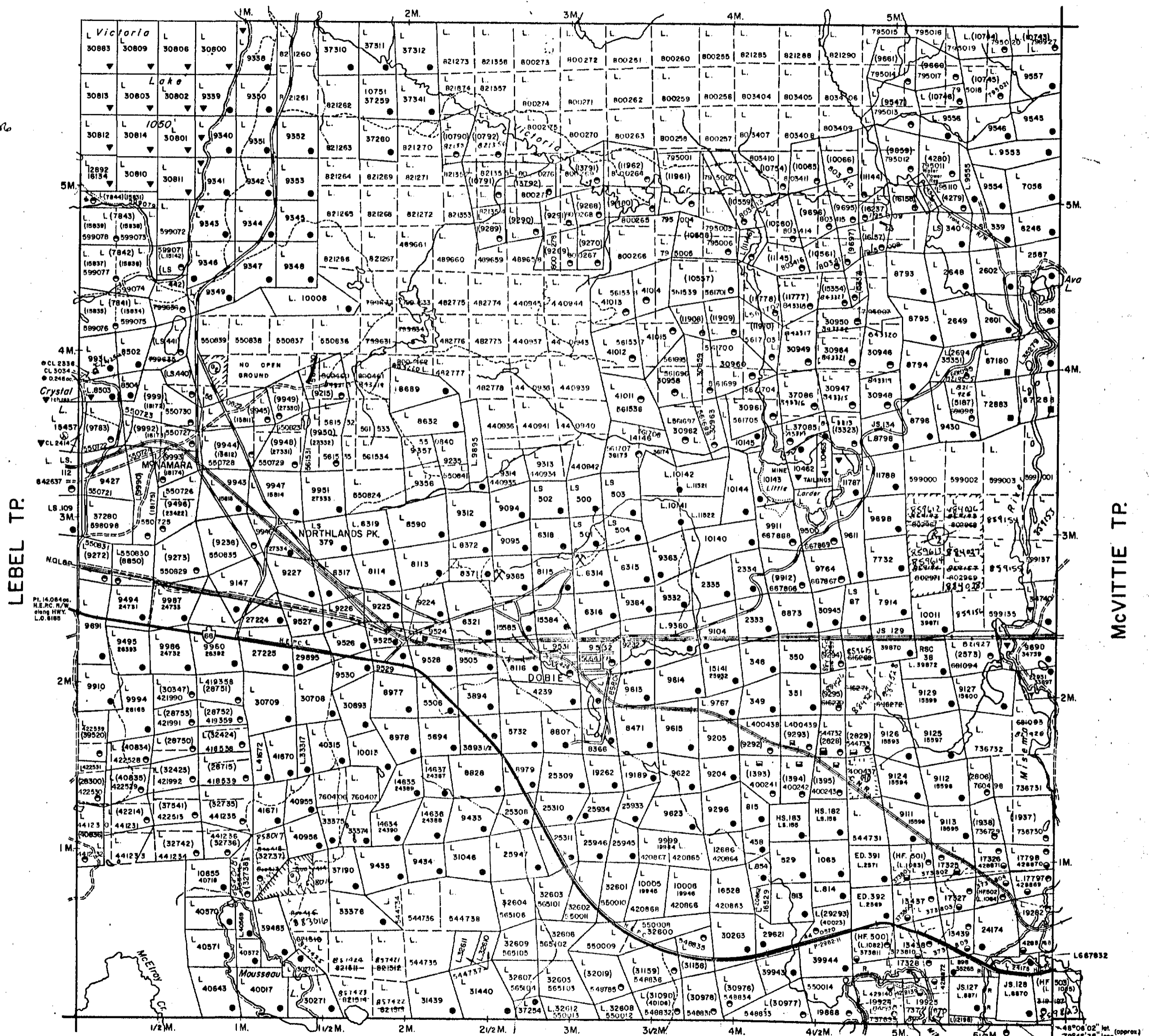
REFERENCES

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
(R1) Sec 36/80 W34/85	24/2/85	AAAS4		
Sec 36/80 022/85	30/12/85	M+S		
(R1) Sec 36/80 W38/85	30/12/85	M+S		
(R2) Sec 36/80 W14/86	31/01/86	M+S		
Sec 36/80 05/86	31/01/86	M+S	off. 9:00am Feb 19/86	

ARNOLD TP.



SAND and GRAVEL

M.T.C.	PIT No. 1686	FILE 101421
M.T.C.	PIT 3F-27	

LEGEND

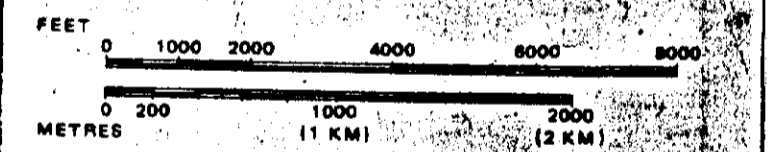
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION 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. 300, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP
GAUTHIER
 M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
 MINING DIVISION
LARDER LAKE
 LAND TITLES / REGISTRY DIVISION
TIMISKAMING

Ministry of Natural Resources Branch
 Land Management

Date JANUARY, 1985
 Number **G-321**

McELROY TP.





SYMBOLS

- Inphase
- Quadrature
- Claim post
- Claim line
- Access road

INSTRUMENT

Geonics VLF-EM16

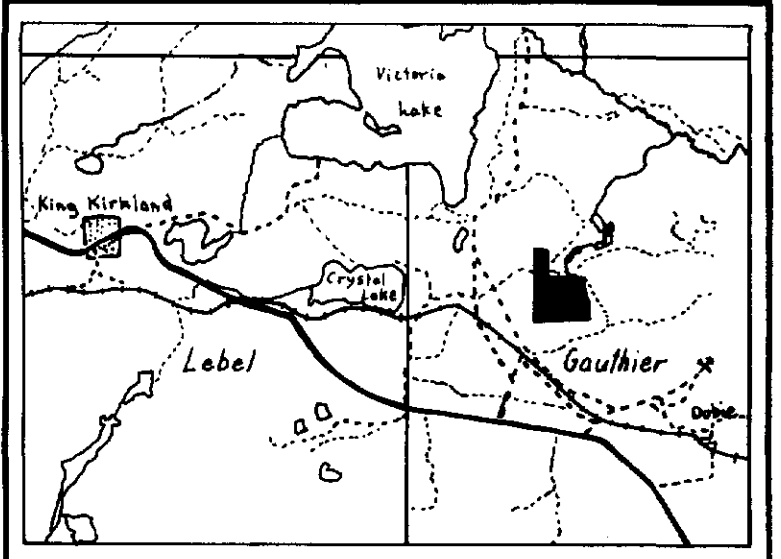
Station used: NSS
Annapolis, Maryland

Frequency: 21.4 kHz

Vertical Scale: 1" = 40%

KEY MAP

Scale: 1 inch to 2 miles



Mary Green

NORTHLAND GRID

GROUND VLF-EM SURVEY
(NSS)

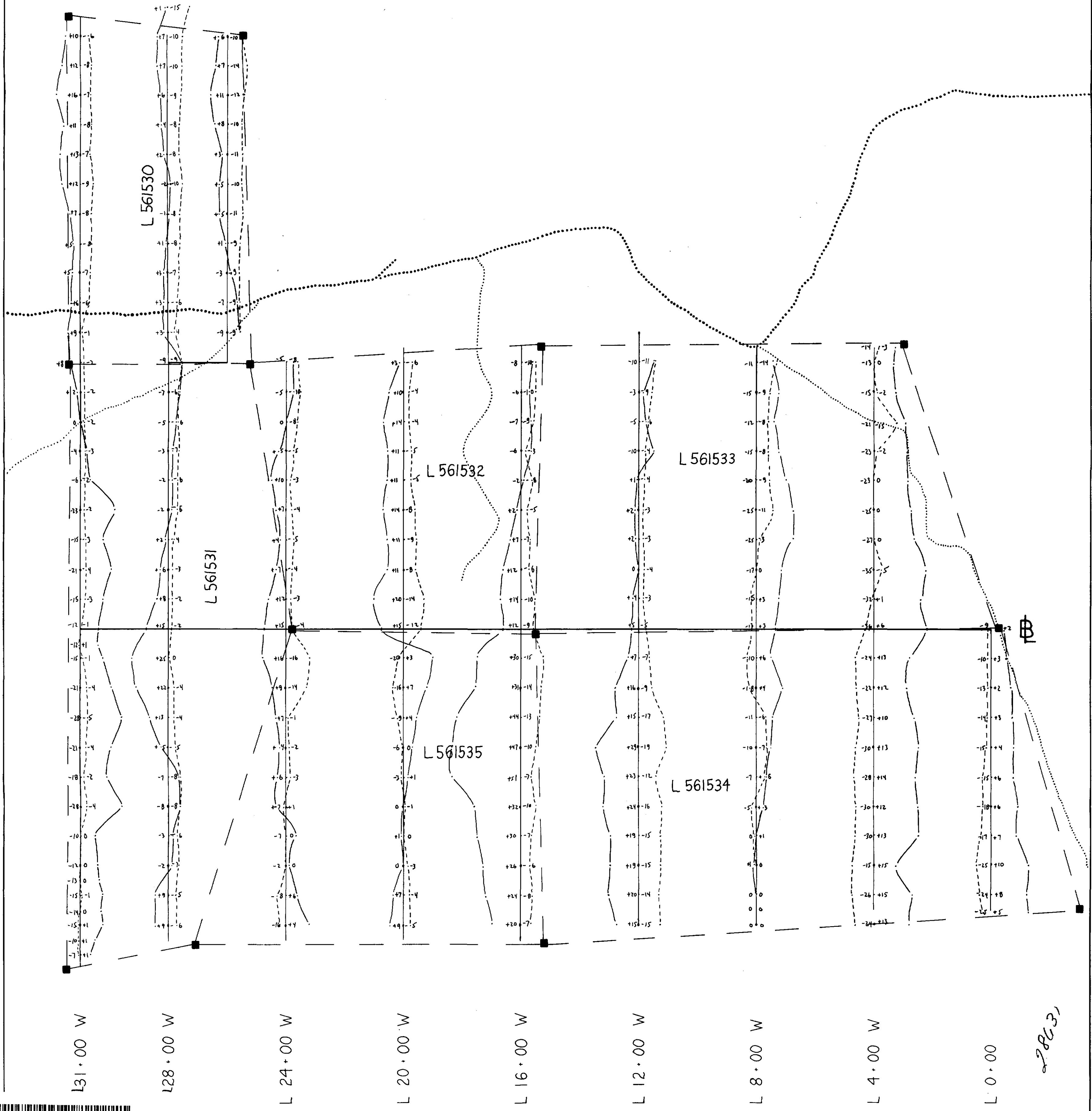
GAUTHIER TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO



1 inch to 200 feet

ALEXANDER H. PERRON
KIRKLAND LAKE CANADA

DRAWN BY: M.M.G. DRAWING NO.: 85-N-10. DATE: September 1985
revised Dec. 1985



L 31 + 00 W

L 28 + 00 W

L 24 + 00 W

L 20 + 00 W

L 16 + 00 W

L 12 + 00 W

L 8 + 00 W

L 4 + 00 W

L 0 + 00 W

28631





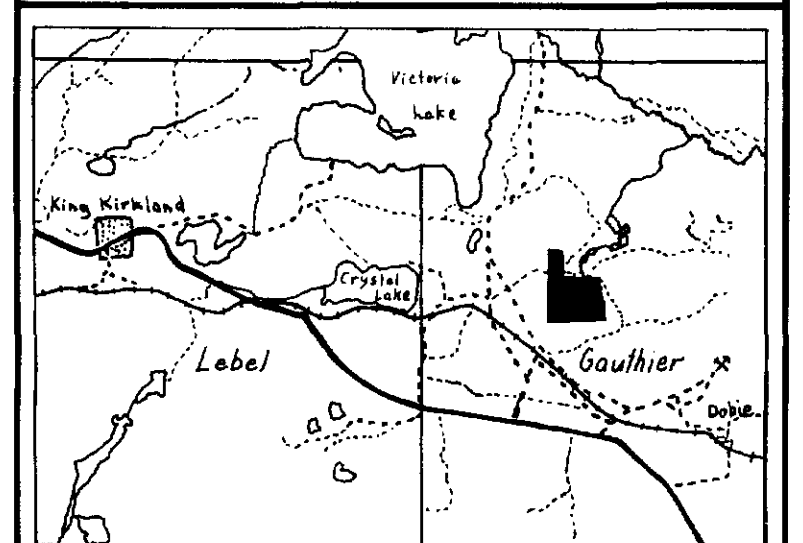
SYMBOLS

- Claim Post ■
- Claim line — — — —
- Access road ·········
- NA - not able to obtain sample

sample number shown on left
assay values on right

KEY MAP

Scale: 1 inch to 2 miles



Mary Gies

NORTHLAND GRID

GEOCHEMICAL SURVEY
(SO/LS)
GAUTHIER TOWNSHIP
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING, ONTARIO

200 0 200 400 feet

1 inch to 200 feet

ALEXANDER H. PERRON
KIRKLAND LAKE CANADA

DRAWN BY: M.M.G. DRAWING NO.: 85-N-4 DATE: October 1985

