



42A01NE0286 2.4254 GRENFELL

REGISTRATION WORK

JOHN SIROLA PROPERTY

GRENFELL TOWNSHIP, LARDER LAKE MINING DIVISION

CLAIMS L 522687 - 93 incl., & L 512579

The above claims were surveyed during the months of July to September, 1980, and July and August of 1981. The survey consisted of electro-magnetic readings (EM 16, V.L.F.) over a prepared grid.

#### PROPERTY

The claims, owned by John Sirola, 1 Ruby Street, Cobalt, Ontario, are located in the northeast part of Grenfell Township, Larder Lake mining division. Access is by bush road approximately 3 miles southeast of Sesekinika village. This road, suitable for travel by four-wheel-drive vehicles, extends to the central part of the property.

The topography of the claims is typical of the area, with low swampy areas and low hills. In the hilly parts rock exposures are frequent. Foliage consists of second growth poplar, birch and maple on the higher ground, with cedar, balsam and spruce in the swampy areas.

#### CONTROL GRID

East-west profile lines were turned off at 120 metre intervals from a centrally located north-south control line. All lines were compassed, blazed and flagged and marked at 30 metre intervals using a hip chain for measurements. There is a total of 19.8 kilometres of line in the grid.

#### GEOLOGY

The rocks encountered are mainly volcanic in origin and range from fine-grained andesites to coarse dioritic types. The coarse grained dioritic rocks are noticeably magnetic.

MEMBER-6-1-59

PLICATE

010

SIDENT GEOLOGIST  
GOVERNMENT ROAD EAST  
KIRKLAND LAKE, ONTARIO  
P2N 1A2

GEOLOGY (cont'd)

In previous years encouraging gold values were obtained from a location in the central part of the property although no production was attained. The gold occurred along the contact between andesitic and dioritic flows.

ELECTROMAGNETICS

The instrument used was a Ronka EM-16, electromagnetic unit. Six hundred and ten readings were taken by the writer and Dennis Hakola of Cobalt, Ontario, using V.L.F. station NSS Annapolis transmitting on a frequency 21.4 KHZ.

RESULTS

Many crossovers are indicated, a number of which show sufficient continuity to indicate the presence of four conductors, designated on the accompanying map as "A", "B", "C" and "D". All of these conductors coincide with lineaments as noted on aerial photographs.

Conductor "A", located in the northeast part of the claim group is approximately 315 metres in length and strikes slightly west of north. A fault scarp was noted at one of the crossovers.

Conductor "B", located in the central part of the property, strikes NW-SE and extends for approximately one kilometre.

Conductor "C", located in the southwest corner of the property, strikes northeast-southwest and terminates on reaching "B" conductor. The length of this conductor is approximately one kilometre.

Conductor "D", located west of "C", conductor strikes southwesterly and has an approximate length of 540 metres.

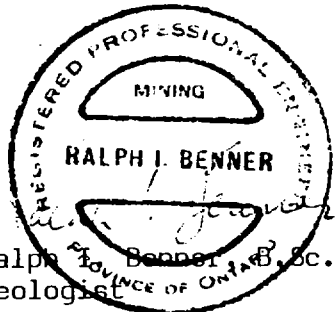
CONCLUSIONS

The four conductors "A, "B, "C", and "D" are considered to represent fault structures.

Closer spaced lines for further EM 16 readings might give length to some of the one-line crossovers.

A magnetic survey to trace the magnetic diorite member could produce important results in conjunction with the above, as the only gold occurrence is along the contact between the two main rock types.

November 3, 1981.

  
Ralph I. Benner, B.Sc. P.Eng.  
Geologist



Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 610 Number of Readings 610
Station interval 30 METRES
Line spacing 120 METRES
Profile scale or Contour intervals 1 CENTIMETRE TO 10%
(specify for each type of survey)

MAGNETIC

Instrument RONKA EM-16
Accuracy - Scale constant
Diurnal correction method
Base station location

ELECTROMAGNETIC

Instrument RONKA EM-16
Coil configuration
Coil separation
Accuracy
Method: [ ] Fixed transmitter [ ] Shoot back [ ] In line [ ] Parallel line
Frequency 21.4 KHZ N 55 ANNAPOLIS, M.D.
(specify V.L.F. station)

Parameters measured IN-PHASE & OUT-OF-PHASE COMPONENT OF SECONDARY FIELD AS A PERCENTAGE OF THE PRIMARY FIELD.

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location

Elevation accuracy

INDUCED POLARIZATION - RESISTIVITY

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



Ministry of  
Natural  
Resources

Ontario

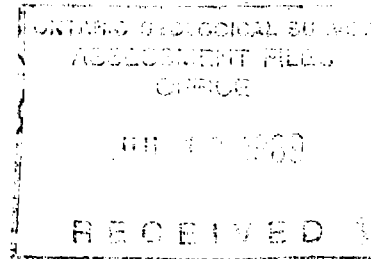
2.4254

1982 10 01

Your file:

Our file: 2.4254

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



Dear Sir:

Re: Geophysical (Electromagnetic) Survey on  
Mining Claim L 512579 et al in the  
Township of Grenfell.

Our statement of Assessment work credits dated August 31, 1982 should have read 40 VLF days. Enclosed is an amended statement.

Please inform the Recorded Holder of these mining claims and so adjust your records.

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

Encl:

A. Barr:sc

cc: John Sirola  
Cobalt, Ontario

cc: ✓ Resident Geologist  
Kirkland Lake, Ontario

RESIDENT GEOLOGIST  
ONTARIO GOVERNMENT  
RECEIVED

OCT 4 1982  
KIRKLAND LAKE, ONT.

# Technical Assessment Work Credits

File  
2.4254

AMENDED

Recorded Holder  
**JOHN SIROLA**

Township or Area  
**GRENFELL TOWNSHIP**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic <u>(VLF) 40</u> days	L 512579
Magnetometer _____ days	L 522687 to 93 inclusive
Radiometric _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological _____ days	
Geochemical _____ 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 86 (15a) for the following mining claims**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**No credits have been allowed for the following mining claims**

not sufficiently covered by the survey       Insufficient technical data filed

RESIDENTIAL SERVICES  
ONTARIO GOVERNMENT  
RECEIVED  
OCT 2 1993  
KIRKLAND LAKE, ONT.



Ministry of  
Natural  
Resources

Ontario

Your file:

Our file: 2.4254

August 31, 1982

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

Dear Mr. Koleszar:

Re: Geophysical (Electromagnetic) (VLF) Survey on Mining  
Claim L 512579 et al, in the Township of Grenfell

The Geophysical (Electromagnetic) (VLF) Survey assessment  
work credits as shown on the attached statement have been  
approved as of the above date.

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

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Telephone: (416) 965-1316

RESIDENT GEOLOGIST  
ONTARIO GOVERNMENT  
RECEIVED

SEP - 9 1982

KIRKLAND LAKE, ONT.

*file* /em

Encl.

cc: John Sirola

cc: ✓ Resident Geologist  
Kirkland Lake, Ontario



# Technical Assessment Work Credits

File  
2.4254

Recorded Holder

**JOHN SIROLA**

Township or Area

**Grenfell Township**

Type of survey and number of  
Assessment days credit per claim

Mining Claims Assessed

Geophysical \_\_\_\_\_ days

Electromagnetic (VLF) 20 days

Magnetometer \_\_\_\_\_ days

Radiometric \_\_\_\_\_ days

Induced polarization \_\_\_\_\_ days

Section 86 (18) \_\_\_\_\_ days

Geological \_\_\_\_\_ days

Geochemical \_\_\_\_\_ days

Man days

Airborne

Special provision

Ground

Credits have been reduced because of partial coverage of claims.

Credits have been reduced because of corrections to work dates and figures of applicant.

L 512579  
L 522687 to 93 inclusive

Credits under section 86 (15a) for the following mining claims

RESIDENT GEOLOGIST  
ONTARIO GOVERNMENT  
RECEIVED

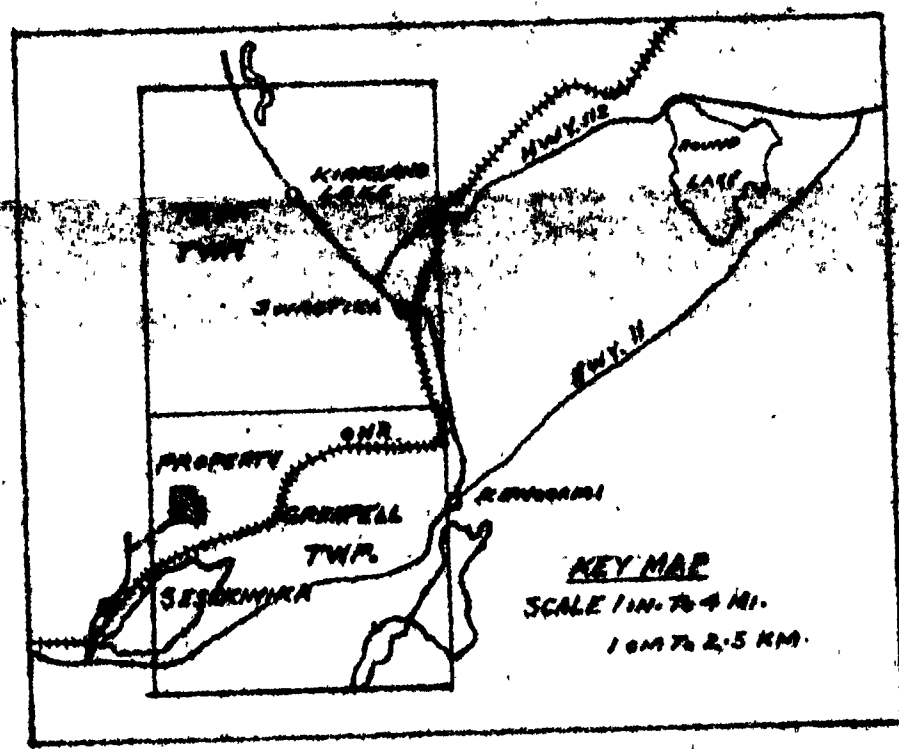
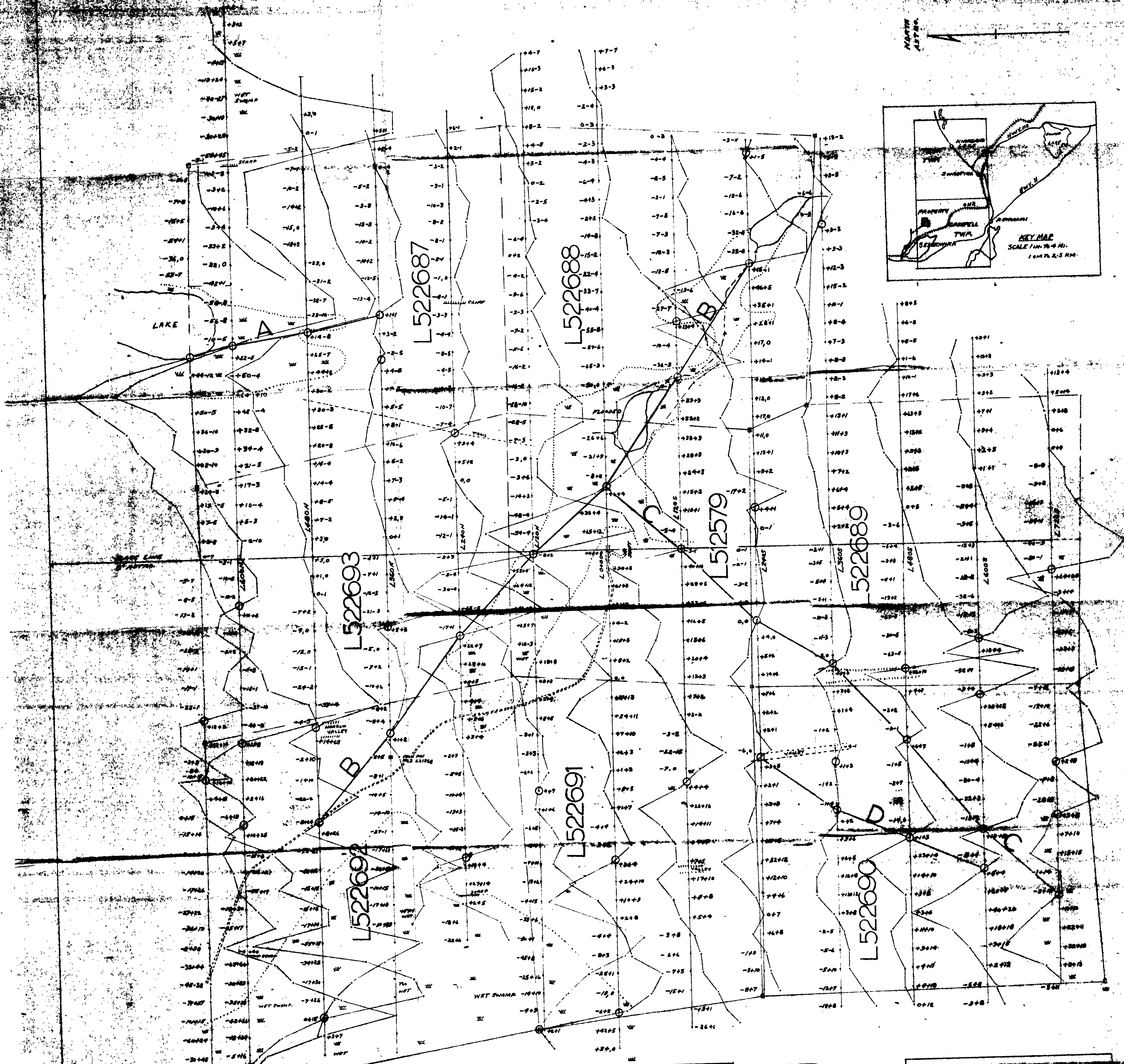
SEP - 9 1982

KIRKLAND LAKE, ONT.

been allowed for the following mining claims

entirely covered by the survey

Insufficient technical data filed



- LEGEND**
- PROMUNGED VALLEY ESCARPMENT
  - SWAMP OUTLINE
  - CREEK
  - ROAD
  - TRAIL
  - TRAVERSE
  - CLAIM LINE
  - CLAIM POST

**VLF-EM DATA**  
 TRANSMITTER - NSB ANNAPOLIS, MD. 21.4 KHZ.  
 BEARING - 163°30' AZ.  
 READING DIRECTION - EAST  
 PROFILE SCALE - 1CM = 10%  
 ANOMALY AND CROSS-OVER POINTS  
 READING OF IN-PHASE COMPONENT OF SECONDARY FIELD AS A PERCENTAGE OF PRIMARY FIELD  
 READING OF OUT-OF-PHASE COMPONENT OF SECONDARY FIELD AS A PERCENTAGE OF PRIMARY FIELD  
 INSTRUMENT - ROMKA EM 16

2.4254

AND L512579  
 GREENFELL TWP. ONT.  
 HELD BY JOHN SIROLA  
 COMALT, ONT.  
**VLF-EM SURVEY**  
 SCALE 1CM TO 30 METRES  
 DRAWN BY - JOHN SIROLA  
 DATE - OCT, NOV, 1981  
 DATE OF SURVEY - JULY, AUG, 1981

DUPLICATE  
 RESIDENT GEOLOGIST  
 405 MT. ROAD EAST  
 KIRKLA LAKE, ONTARIO  
 PBN 1A2



OME P81-6-I-57