010

GEOPHYSICAL REPORT
ON THE
PERRON PROPERTY - WESTERN HALF

HARKER AND ELLIOTT TOWNSHIPS
LARDER LAKE MINING DIVISION

DISTRICT OF COCHRANE, ONTARIO

FEBRUARY 10th, 1982

MARY GREER,
Geophysical Technician.

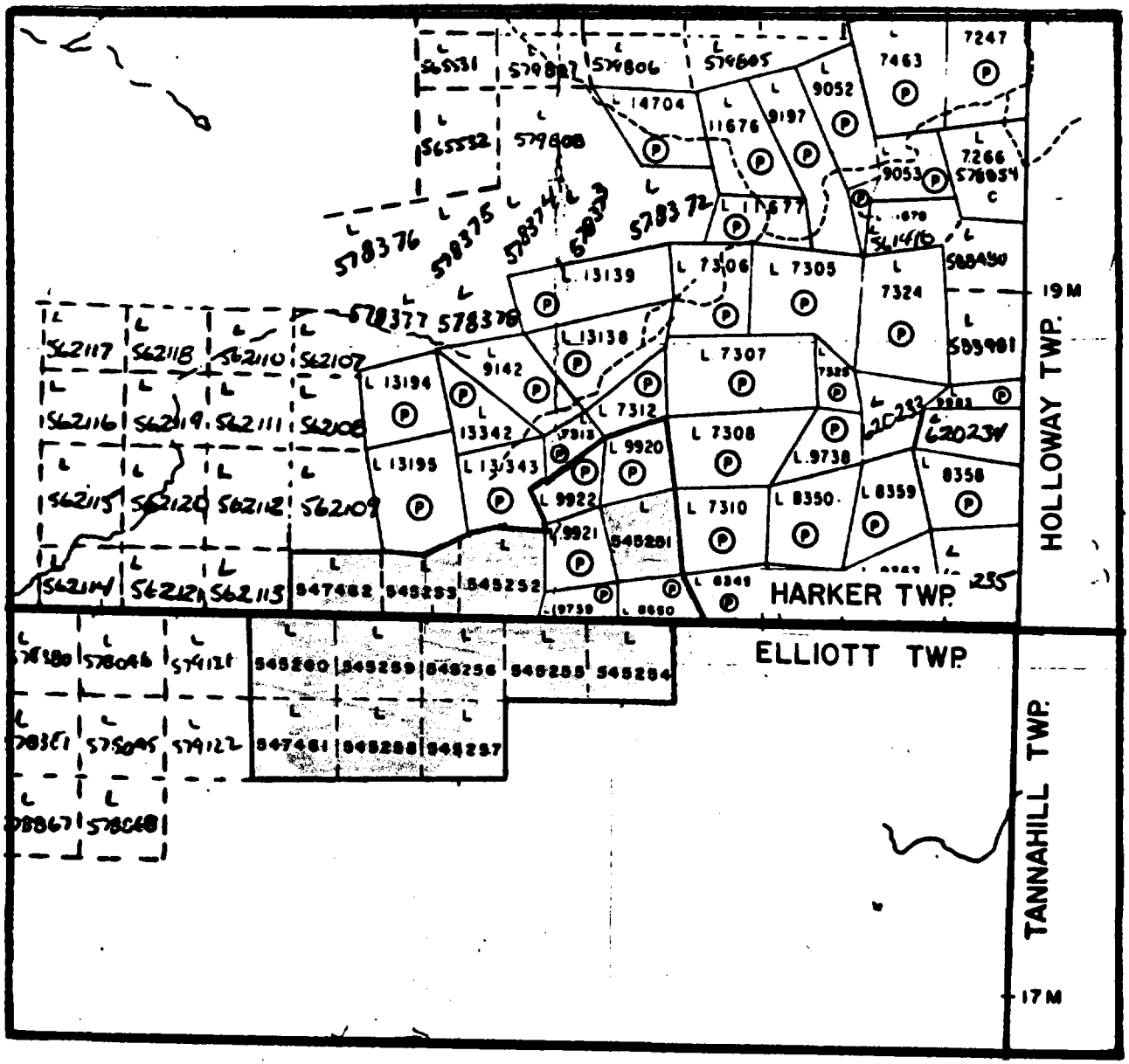
TABLE OF CON

	PAGE NUMBER
CLAIM MAP	i
LOCATION MAP	ii
INTRODUCTION	1, 2
PROPERTY DESCRIPTION	2, 3
LOCATION AND ACCESS	3, 4
PREVIOUS WORK	4
SURVEY PROCEDURE	4, 5
TOPOGRAPHY	5, 6
GENERAL GEOLOGY	6, 7
ECONOMIC GEOLOGY	7, 8
FIGURE 1	9
SURVEY METHODS:	
ELECTROMAGNETIC SURVEY	10
MAGNETIC SURVEY	10
PRESENTATION AND DISCUSSIONS OF RESULTS	11, 12
CONCLUSIONS AND RECOMMENDATIONS	12, 13
BIBLIOGRAPHY	14
CERTIFICATE	15

MAPS:

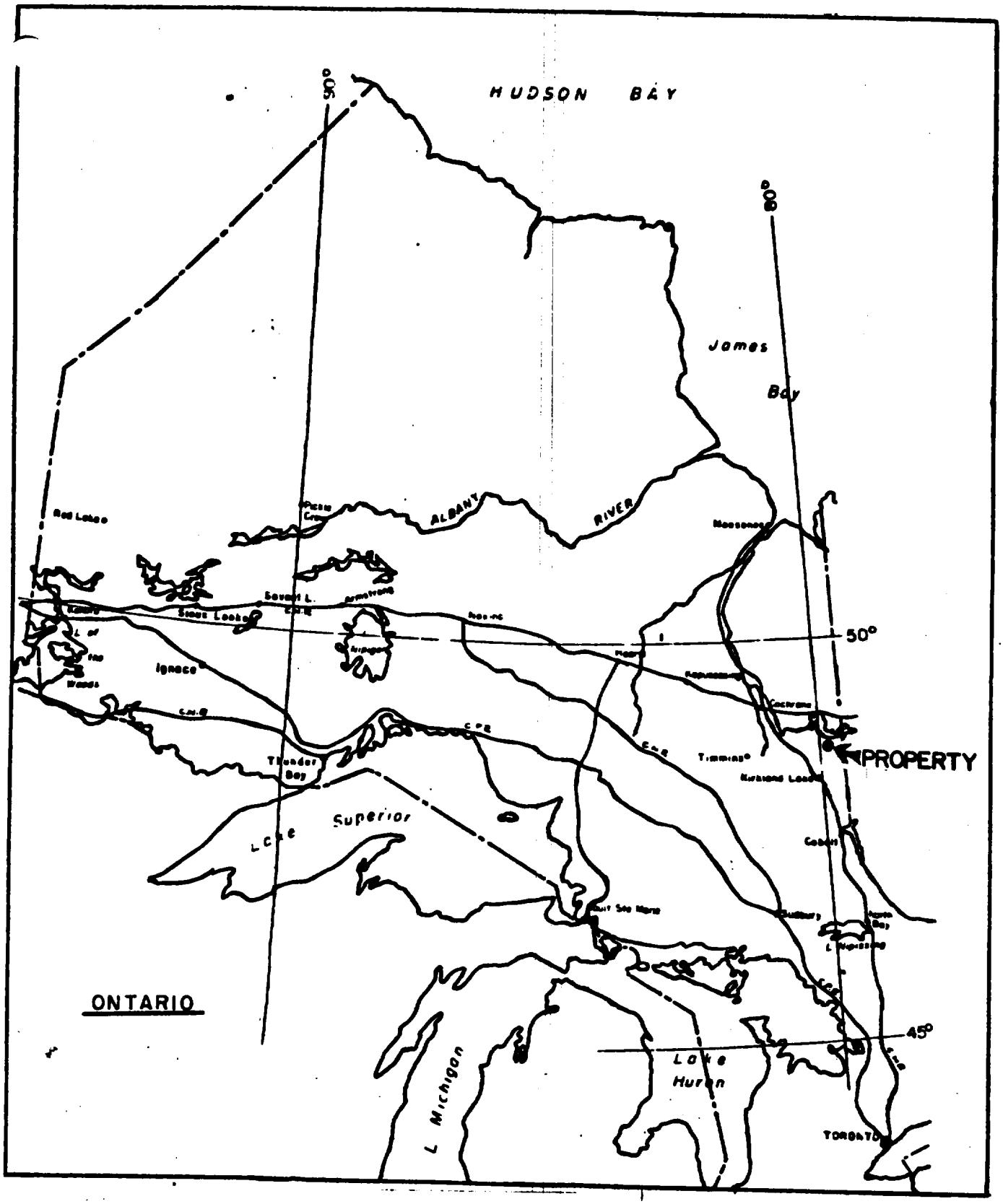
V.L.F.-EM Survey (in pocket at back of report)

MAGNETIC SURVEY TOTAL FIELD (in pocket at back of report)



CLAIM MAP

SCALE: 1 inch to 2640 feet



LOCATION MAP

SCALE: 1" to 120 miles

GEOPHYSICAL REPORT
ON THE PERRON PROPERTY - WESTERN HALF
HARKER AND ELLIOTT TOWNSHIPS
LARDER LAKE MINING DIVISION
ONTARIO

INTRODUCTION:

The Perron Property consists of 15 unpatented mining claims and 15 patented claims known as the Iris Gold Mines Ltd. The Iris Gold Mines has been idle in the Perron family since the late 1940's and due to the recent interest in the property, exploration for possible future development has begun.

However, for the purpose of this report only the western half of the property was examined, with the eastern half to follow in the near future.

During October, 1979, the staked claims were recorded by A.H. Perron, and in the summer of 1981 subsequently established a geophysical grid at a 400 foot line spacing.

During the period of December 7 - 12, 1981 two geophysical surveys (electromagnetic and magnetic) were completed over the 12 staked claims and half of the Iris Gold property. Two Geonics VLF-EM16 and one Geometric Proton Magnetometer were used for the above mentioned surveys.

This work was conducted and supervised by Bob Leliever assisted by Calvin Black, Mary Greer and John Daley, who are

members of the Canadian Gold & Metals Geophysical staff.

Drafting, plotting and contouring of the data was by Mary Greer assisted by Garth Elliott. The finished maps were interpreted by Mary Greer.

The purpose of this report is to breifly describe the results attained 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 western half of the Perron Property consists of a contiguous block of 12 unpatented mining claims and 4 patented mining claims. Eight of the unpatented mining claims are found in the Elliott Township and the other claims in question are located in Harker Township. All the claims are part of the Larder Lake Mining Division, District of Cochrane, Ontario and are further described as follows:

CLAIM NO.	NO. OF CLAIMS	TOWNSHIP
L-545251-53	3	Harker
L-547462	1	Harker
L-545254-50	7	Elliott
L-547461	1	Elliott
	12	

plus the 4 patented claims:

CLAIM NO.	NO. OF CLAIMS	TOWNSHIP
L-9739	1	Harker
L-9921	1	Harker
L-9922	1	Harker
L-8650	1	Harker
	4	

(12 unpatented claims plus 4 patented claims = 16 claims)

Holder of the aforementioned twelve claims has been attested to by John E. Perron, 103 Government Road, E., Kirkland Lake, Ontario and was not independently ascertained by the writer.

LOCATION AND ACCESS:

The Perron Property is located in the southeastern corner of Harker Township and the northeastern corner of Elliott Township, approximately at 48°28' north latitude and 79°46' west longitude, or 25 miles NNE of the Town of Kirkland Lake, Ontario.

Included in this report are key map No.s 1 and 2 which show the property location.

Access to Harker Township can be gained via secondary forestry access roads off of Highway 101 extending east approximately 24 miles from the Town of Matheson, Ontario. Direct access to the property, however, is limited to an A.T.V.

on a secondary bush road in the summer or snowmobile in the winter or a one hour hike along an old abandoned corduroy road.

PREVIOUS WORK:

There showins were discovered on the Perron Property (more specifically Iris Gold). In the summer of 1947 surface work was carried out by R. Storen on the No. 1, 2 and 3 showings, involving surface pits and trenches and a small diamond drill program on the number 1 vein (found on the eastern half of the property).

On patent claim L-8650 the No. 2 showing was explored by trenching two pits and channel samples were taken from each pit. This showing is a narrow shear zone at the contact between a rhyolite flow and a fine grained basic lava.

The No. 3 showing; a quartz vein in pillow lava trending N70°E; is found on claim L-5520 and this showing was trenched for 120 feet. This vein was reported to be a narrow quartz vein mineralized with pyrite, chalcopyrite and galena.

Some trenching and pitting was conducted on the Elliott claims L-545254-255-257 and detailed geological mapping by R. Storen. The work was conducted on two veins trending northeast to southwest.

SURVEY PROCEDURE:

A baseline was established N54°E starting at the #3

corner of patent claim L-9739. Station 0 + 00 was established there by chaining along the Harker-Elliott Township line from the X mile post.

A grid system of picket lines at 400 foot spacing with stations each 100 feet was established at right angles to the baseline.

Readings were taken at each 100 foot station and on the baseline for the magnetometer. The Primary Base station was set up 350 feet from the #3 post of claim L-547462 with secondary check stations established for the purpose of this survey at 400 foot intervals along the baseline. The time interval between each secondary base check was one half hour to 45 minutes.

TOPOGRAPHY:

The western half of the Perron Property is flat with very gently sloping hills and in scattered areas, such as claim L-545255, large outcrops give the ground a more rugged appearance. The average difference in elevation is approximately 75 - 90 feet.

The claims in Harker are open with light regeneration of poplar due to previous logging operations. Elliott Township is covered with spruce, balsam, fir and white birch. The ground is high enough to remain dry, but a few swampy sections can be found particularly in the Elliott claims and the northern

boundary of the Iris Property. A small creek crosses the baseline at 400' E.

GENERAL GEOLOGY:

ODM Geological Map 1951-4 covering Harker Township at a scale of one inch to 1,000 feet indicates that the bedrock is predominantly mafic flows with 2 inner rhyolite flows and one diabase dyke and one small stock of course syenite.

The trend of the mafic flows appear to be northeast-southwest and the most common mafic flow is a diabasic flow with a flow breccia top. The tops of these flows are facing south.

The other mafic flows can be andesite, basalt, pillow lavas, diabasic lavas and some spherulitic lavas as well as some fragmental lavas and tuffs and chert. The shapes of the pillows indicate that the flows flow south.

The rhyolite flows range from 100 feet to 300 feet and strike N75°E. They have steep dips and face south.

The Matachewan diabase dyke is quartz diabase, diabase, in composition and is the youngest of the rocks. The dyke trends north-south ranging from 30°-45° east of north and width of the dyke varies from 50 to 100 feet. Lamprophyre dykes are rare, but frequently found at flow contacts or in a flow brecciated top. There are scattered quartz veins

throughout the property, some with sulphide mineralization. According to O.D.M. Geological Map 2368, covering Elliott and Thackeray Townships, the main flows are pillowed mafic flows (with the pillows facing south) and diabasic to gabbroic textured flows trending northeast-southwest.

Further research of Map No. 34a, Part of the Lightning River Area, by T.L. Gledhill, 1924, indicates that the N75°E rhyolite flows of Harker Township continues on into Elliott Township, these rhyolite flows are also mapped in R. Storen's detailed geological mapping of Goodfish Mines Ltd.

ECONOMIC GEOLOGY:

The neighbouring property to the north of Iris Gold is held by Harker Gold Mines and during the years 1924, 1925 and 1928 underground development of over 7,000 feet of drifting and cross-cutting was carried out on the number one vein.

The number one vein strikes N58°E, dips 80°S and is roughly parallel to the surrounding basalt flows.

Exploration at that time was very active but due to poor accessability interest was lost. Harker Township has only been active in recent years due to improved access roads and a new found interest in the Destor-Porcupine Fault zone. At one time the southerly part of Harker was unreachable by roads until logging activity opened the interior up.

The gold deposits of the Harker area can be generalized in three ways; in sheared and fractured zones, in mineralized

dykes; and in quartz veins, fillings and stockworks.

The sheared and fractured zones are usually found in sediments, lavas and intrusives. The mineralization is usually pyrite and occassionally visible gold can be seen. The mineralized dykes can be carbonatized or silicified with or without quartz stringers. Some dyke types are lamprophyre, syenite porphyry and feldspar porphyry.

Iris Gold Mines has always been an ideal site geologically for gold and has many samples and assays taken for gold. Some of the gold assays from the channel sampling for showing No. 2 are shown in figure 1.

Figure 1

Showing No. 2

	WIDTH OF SAMPLES	DESCRIPTION	ASSAYS
East Pit	8"	Quartz with 5% pyrite	0.03 oz/ton
West Pit	7.5"	Quartz wi h 3% pyrite	0/04 oz/ton

Showing No. 3 and 3 channel samples taken and the assays ran from .02 oz/ton to .11 oz/ton with some visible gold reported in the quartz viens.

SURVEY METHODS:

ELECTROMAGNETIC SURVEY:

The instruments used for this EM Survey were two Geonics VLF-EM16 Units. The sensitivity of these units is ± 1% for the in-phase and ± for the quadrature. The operating frequency for the EM16 is from 15-25 kHz and the station selection is made by plug-in units.

For the purpose of our EM Survey the station used was Cutler, Maine, which was a frequency of 17.8 kHz.

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

MAGNETIC SURVEY:

The entire grid, including the baseline was read at every 100 foot interval with a Geometrics G-816 Proton Mangetometer, this instrument has a sensitivity of one gamma.

The diurnal variation was monitored by closing each loop at any secondary base station at a grid line - baseline intersection.

Diurnal corrections were applied by linear distribution of an observed variation over the time between base stations. The corrections were calculated by using a time vs drift graph.

PRESENTATION AND DISCUSSIONS OF RESULTS:

Electromagnetic Survey:

Three (3) VLF-EM conductors were found on the Perron Property. These conductors are further described as follows:

CONDUCTOR NO.	TREND	APPROXIMATE LOCATION	INTENSITY
Conductor A	East-Northeast to West-southwest	L 36 W 14+00 N to L 24 W 10+00 N	Good
Conductor B	Northeast to Southwest	L 20 W 12+00 N to L 4 W 9+00 N	Good
Conductor C	near east-west	L 32 W 3+50 S to L 20 W 9+50 S	Good

Conductor A follows a topographic boundary between sloping dry ground with scattered outcrops to a flat wet section on L 24 W and L 28 W. L 32 W and L 36 W do not appear to have the same topographic characteristics as the former lines.

Conductor B does not follow any set topographic boundary. It is located under dry, hilly topography.

Conductor C has two (2) associations with topographic boundaries; a beaver pond on L 32 W 3+50 to 0+00 S and a wet area on L 20 W 5+00 E. This conductor appears to trend across the trend of the underlying geology as indicated by the magnetic survey.

On L 20 E 8+00 N a conductor (conductor D) was picked

up with a very good intensity. No further discussion can be made of this conductor due to the fact that no notes are available to see where this conductor extends to and in which direction.

CONCLUSIONS AND RECOMMENDATIONS:

Conductor B requires further exploration. One possible method would be by using a Inductive Vertical Loop System with a fixed transmitter which would further describe the conductor. This conductor follows the magnetic trend but is not associated with a magnetic high. The same can be said for conductor A; it is very possible, however, to be caused by a topographic boundary.

With regards to the magnetic highs and the rapid magnetic changes between the mafic flows and the andesite-dacite flows, it is recommended that a detailed grid of a maximum 50 foot interval be carried out over the said anamolies. A 50 foot spacing should also be read over the diabase dyke to better locate its boundaries and any sulphide mineralization that occurs in the mafic flows.

This is also recommended over the three (3) VLF-EM conductors; with a 50 foot spacing you can receive a more discriminate reading for the conductors in question. The 50

foot spacing will help filter out the near surface "geological noise".

Respectfully Submitted,

Mary Greer

FEBRUARY 10th, 1982

MARY GREER,
Geophysical Technician.

BIBLIOGRAPHY

-Sixtieth Annual Report of the Ontario Department of Mines
being Vol. LX, Part VII, 1951

-Plan of Goodfish Mining Co. Ltd.
Lightning River Area showing Geology and Workings
of North portion
-Drafted by R. Storen,
Kirkland Lake, Ontario
November 1947
Traced by: E. Norppa
Kirkland Lake, Ontario
December 29, 1948

-Map No. 28b, Ontario Department of Mines
Geology by T.L. Gledhill, 1924
-Part of the Lightning River Area,
District of Cochrane, Ontario

-Ontario Geological Survey
Map 2368
Thackeray and Elliott Townships

CERTIFICATE

I, MARY M. GREER, of Gogama, Ontario, in the Province of Ontario, certify as follows with respect to my report on the Catharine Six Group in Catharine Township, Larder Lake Mining Division in the District of Timiskaming dated February 10th, 1982:

1. That I am a Geophysical Technician and reside at Box 89, Gogama, Ontario, POM LWO.

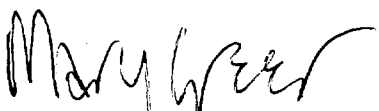
2. That I graduated from Sir Sanford Fleming College at Lindsay, Ontario in 1978 with a diploma as a Geological Technician.

3. That I was employed as a Geophysical Technician by H.E. Neal & Associates Ltd. for eighteen months.

4. That I have been practising my profession for a period of three years and am qualfied to write this report.

5. That I employed by Canadian Gold & Metals Inc. as a Geophysical Technician.

6. That I participated in and supervised this survey.



February 10th, 1982
TIMMINS, Ontario.

Mary Greer,
Geophysical Technician

Ministry of Natural Resources

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

6/80

JAN 0

32D05NW0094 2.4529 ELLIOTT

900

(File L545254)

The Mining Act

– Do not use shaded areas below.

Type of Survey(s)	Township or Area
Geophysical (Mag and E.M.)	Elliott & Harker Twps.

Name and Address of Holder(s)	Prospector's Licence No.
John E. Perron, 103 Government Rd E., Kirkland Lake, Ontario	K18983

Name and Address of Author (of Geo-Technical report)	Date Survey Completed	Total Miles of line Cut
3 Pine Street S., Timmins, Ontario, P4N 2T9	Day | Mo. | Yr.	

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	40
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	545251	60
	545252	60
	545253	60
	545254	60
	545255	60
	545256	60
	545257	60
	545258	60
	545259	60
	545260	60
	547461	60
	547462	60

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
FEB 19 1982
MINING LANDS SECTION

LANDS
RECEIVED
DEC 21 1981
AM 7 8 9 10 11 12 1 2 3 4 5 PM

Total number of mining claims covered by this report of work. 12

Certification of Work Completed

Date of Report Dec. 18/81

Recorded Holder or Agent (Signature) M Charbonneau

For Office Use Only

Total Days Cr. Recorded 120

Date Recorded DEC 21 1981

Mining Recorder

Date Approved as Recorded

Regional/Branch Director

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.

Ontario — Geochemical and Expenditures)

(pcl L545254) — The Mining Act 2.4529

Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. Do not use shaded areas below.

Type of Survey(s)	Township or Area
Geophysical (Mag and E.M.)	Elliott & Harker Twps.

Claim Holder	Prospector's Licence No.
John E. Perron, 103 Government Rd E., Kirkland Lake, Ontario	K18983

Survey Company	Survey Dates (linecutting to office) Day | Mo. | Yr. — Day | Mo. | Yr.	Total Miles of line Cut
Canadian Gold & Metals Inc.		

Name and Address of Author (of Geo-Technical report)
3 Pine Street S., Timmins, Ontario, P4N 2T9

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	40
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	545251	60			
	545252	60			
	545253	60			
	545254	60			
	545255	60			
	545256	60			
	545257	60			
	545258	60			
	545259	60			
	545260	60			
	547461	60			
	547462	60			

RECEIVED
MAR 25 1982
MINING LANDS SECTION

LAK... RECEIVED DEC 21 1981 AM 7 8 9 10 11 12 1 2 3 4 5 PM

Total number of mining claims covered by this report of work. 12

For Office Use Only

Total Days Cr. Recorded 120

Date Recorded DEC 21 1981

Date Approved as Recorded 81:01:28

Mining Recorder

Regional Branch Director

Report Completed

Date of Report	Recorded Holder or Agent (Signature)
Dec. 18/81	M Charbonneau

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
Hermann Tittley, 147 Hemlock Street, Timmins, Ontario.

Date Certified	Certified by (Signature)
Dec. 18/81	

1... (1 21)

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.4529.

Mining Lands Comments

You wanted to see this anyway
again.

☑ To: Geophysics Mr Barlow.

Comments

☑ Approved ☐ Wish to see again with corrections | Date Jan 3/83 | Signature

☐ To: Geology - Expenditures

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Geochemistry

Comments

(1)

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

November 16, 1982

Mr. Fred Matthews
Land Management Branch
Whitney Block, Room 6450
Queens' Park
Toronto, Ontario
M7A 1W3

Dear Sir:

I am returning the V.L.F. plans (in duplicate) for the Geophysical (Electromagnetic and Magnetometer) Survey on Mining Claims L 545251 et al in the township of Ellich and Harker as well as V.L.F plans for Mining Claims L 565520 et al in the township of Catharine.

I am the author of the Geophysical Reports and have added the readings to each station. Since the original mylars are not at my disposal I had to put the readings directly on the prints

I'm sorry to put you to so much trouble, I was aware that it was necessary for the readings to be shown but at the time I wrote the reports I could not convince My superiors of this requirement.

I'm sorry to delay you and hope this is what you required.

Your very truly

Mary Greer

Mary Greer Geological Technician
Site 3, RR#2, Box 9
Swastika, Ontario
P0K 1T0

Ontario Ministry of Natural Resources

Geotechnical Report Approval

File 2.4529

Mining Lands Comments

- V.L.F. survey maps need readings. (raw data)

☑ To: Geophysics Mr Barlow

Comments

VLF survey needs readings on maps

☐ Approved ☑ Wish to see again with corrections | Date Oct 5/82 | Signature

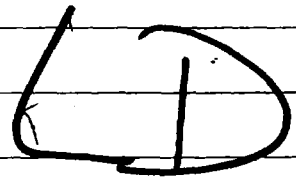
☐ To: Geology - Expenditures

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Geochemistry

Comments



☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

1982 10 21 2.4529

Mr. John E. Perron
103 Government Road East
Kirkland Lake, Ontario
P2N 1A9

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer) Survey submitted on Mining Claims L 545251 et al in the Townships of Elliott and Harker

---

Enclosed are the V.L.F. plans (in duplicate) for the above mentioned survey. In order to complete your submission readings (i.e. raw data) must be shown at each station.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

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:sc

Encls:

cc: Mining Recorder
Kirkland Lake, Ontario

1982 02 22 2.4529

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 Geophysical (Electromagnetic and Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims L 545251 et al in the Townships of Elliott and Harker.

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: 416/965-1316

J. Skura/amc

cc: Canadian Gold & Metals Inc.
Timmins, Ontario

CANADIAN GOLD & METALS INC.
EXPLORATION OFFICE:
3 Pine Street South, Suite 204,
Timmins, Ontario P4N 2T9
Phone: (705) 267-7105

February 18th, 1982

LOOMIS

Lands Administration Branch,
Mining Lands Section,
Ministry of Natural Resources,
Room 6450 Whitney Block,
Queen's Park, Toronto,
M7A 1W3

Dear Sir:

Re: Technical Reports for
-Catharine Township
-Elliott & Harker Townships
-Lebel Township
Larder Lake Mining Division

Enclosed herewith please find duplicate copies of the following:

Report dated February 10th, 1982 by Mary Greer entitled:

Geophysical Survey Report
on the A.H. Perron Property
Catharine Six Group
Catharine Township
Larder Lake Mining Division
District of Timiskaming, Ontario

Report dated ~~February 10th, 1982~~ by Mary Greer entitled:

Geophysical Report
on the Perron Property - Western Half
Harker and Elliott Townships
Larder Lake Mining Division
District of Cochrane, Ontario

Report ~~dated~~ February 18th, 1982 by H.Z. Tittley entitled:

Report on Geophysical Survey
on the Gull Lake Property of
Jokabo Resources Inc.
Lebel Township
District of Timiskaming, Ontario

....2

I trust this is the information required as per the Report of Work sheets filed with the local Mining Recorder's office in the district concerned.

Yours truly,

CANADIAN GOLD & METALS INC.

Mary Charbonneau

/mc
Encl.

c.c. A. Perron

February 19, 1982

Canada Gold & Metals Inc.
Exploration Office
3 Pine Street South
Suite 204
Timmins, Ontario
P4N 2T9

Attention: H. Z. Tittley

Dear Sir:

Re: VLF EM Survey Plan (Incomplete)
Claims L-545252 & L-545254

With reference to your letter of February 17, 1982 it is my understanding that the field notes for the electromagnetic survey done on claims L 545252 and 545254 were lost and therefore you will have to survey the claims again when the weather permits.

If that is the case, then Section 77 (22) of the Mining Act does not apply. This is not a case where the survey data exists and a delay has occurred in drafting and report writing.

May I suggest that you voluntarily withdraw your report of work form for these two claims from the Mining Recorder and request that he delete the entry from the claim record sheets. If your claims are thus placed in jeopardy you should then make arrangements with the Mining Recorder to apply to the Mining and Lands Commissioner for relief from forfeiture and an extension of time.

Sincerely,

E. F. Anderson
Director
Land Management Branch

FWM/mcr

2.4529?

March 21, 1982

Mr. Fred Matthews
Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 6450, Whitney Block
Queens Park, Toronto
M7A 1W3

Dear Mr. Matthews:

I am submitting a supplementary report on the geophysical survey of the Perron Property of Harker and Elliott townships. When the inital report was being prepared, it was discovered that some notes were missing. Permission was obtained from George Kolezar, Mining Recorder of the Larder Lake Mining Division, to complete these missing lines as soon as such conditions were available.

You would do a great service if you would attach these two reports to the two copies in Queen's Park and show that the work has been completed as required for a assessment report.

Sincerely yours,

Mary Greer

Geological Technician
RR # 2, Box 9
Swastika, Ontario.

March 21, 1982

Dear Sir:

I am submitting a supplementary report on the geophysical survey of the Perron Property of Harker and Elliott townships. When the initial report was being prepared it was discovered that some notes were missing. Permission was obtained from George Kolezar, Mining Recorder of the Larder Lake Mining Division, to complete these missing lines as soon as bush conditions were available.

You would do a great service if you would attach these two reports to the two copies in Queen's Park and show that the work has been completed as required for a assessment report.

Sincerely yours,

Mary Greer

Geological Technician
RR # 2, Box 9
Swastika, Ontario

SUPPLEMENTARY REPORT
OF THE
GEOPHYSICAL REPORT
OF THE
PERRON PROPERTY - WESTERN HALF
HARKER AND ELLIOTT TOWNSHIPS
LARDER LAKE MINING DIVISION
DISTRICT OF COCHRANE, ONTARIO

FOREWORD:

The inital geophysical report was written on February 10, 1982, by the writter, for Alexander Perron. Due to last notes and poor bush conditions, picket lines: L 00 (North), L 4+00 E, L 8+00 E, L 12+00 E and L 16+00 E (north) were not completed with the VLF Therefore claims L 545252 and L 545254 due not have the total amount of work presented to qualify these lines for the number of days required. This supplementary report is written to present the required information.

ELECTROMAGNETIC SURVEY:

The instrument used for this EM Survey was a Geonics VLF-EM16 unit. The sensitivity of this unit is ± 1% for the in-phase and ± 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.

For the purpose of the EM survey the station used was Cutler, Maine which has a frequency of 17.8 kHz.

All the readings were taken by Alex Perron, facing north at 100 foot intervals along the grid.

PRESENTATION AND DISCUSSIONS OF RESULTS:

Electromagnetic Survey:

Conductor B, found with the previous work, was found to extend on the same strike, through lines L 0+00 7+00 N; L 4+00 E 6+00 N L 8+00 E 5+00 N; and L 12 N 2+00 N.

Conductor D was found to have a north-west southeast strike and is found between L 12 E 14+00 N; L 16 E 12+00 N and L 20 E 8+00 N. This conductor appears to follow a topographic boundary between higher, dry ground and a low wet cedar swamp.

Respectfully submitted

Mary Greer

March 21, 1982.

MARY GREER
Geological Technician

CANADIAN GOLD & METALS INC.
EXPLORATION OFFICE:
3 Pine Street South, Suite 204,
Timmins, Ontario P4N 2T9
Phone: (705) 267-7105

February 17, 1982

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 6450 Whitney Block
Queen's Park, Toronto
M7A 1W3

Dear Sirs:

Re: VLF EM Survey Plan (Incomplete)
Claims L-545252 & L-545254

Further to our letter of February 8th, 1982, to Mr. George Kolezar, Mining Recorder, Larder Lake Mining Division, with attached Affidavit (copy attached), we would like to apply for an extension on the above mentioned claims under section 77 (22).

As mentioned in the February 8th letter, Mary Greer did attempt to acquire the data by repeating the survey along the lines in question but was unable to do so because of deep snow conditions along the existing roads.

We would appreciate receiving this extension until we are able to repeat the survey when snow conditions improve. Hopefully, this will not be in the too distant future.

Yours very truly,

CANADIAN GOLD AND METALS INC.

H. Z. Tittley

HZT/sg
attach.

CANADIAN GOLD & METALS INC.
EXPLORATION OFFICE:
3 Pine Street South, Suite 204,
Timmins, Ontario P4N 2T9
Phone: (705) 267-7105

February 8th, 1982

Mr. George Kolezar,
Mining Recorder,
Larder Lake Mining Division,
4 Government Road East,
Kirkland Lake, Ontario,
P2N 3L1

Dear Mr. Kolczar:

As per our recent telephone conversation, here is the Affidavit from the operator whose field notes could not be located resulting in the incomplete survey coverage on our V.L.F. E.M. survey plan which we are submitting for assessment credit. The missing data are on claims L-545252 and L-545254.

Mary Greer, also an employee of Canadian Gold and Metals, attempted to acquire the data by repeating the survey along the lines in question but was unsuccessful due to the deep snow conditions along the existing roads.

When conditions improve, Canadian Gold & Metals or other parties, on their behalf, will complete the survey. Completed maps will be forwarded to your office shortly thereafter.

I thank you for your patience and apologize for the inconvenience.

Yours truly,

CANADIAN GOLD & METALS

H.Z. Tittley,
Field Geophysicist.

/mc
Attach.

A F F I D A V I T

I, Kalvin Black, of Gogama, Ontario, and an employee of Canadian Gold & Metals, declare that I have made geophysical observations using the V.L.F. Electromagnetic unit serial number 19047 along lines 0 4E 8E and 12E over claims L-545252 and L-545254 on December 9th, 1981.

The recorded field notes taken during these observations were, to the best of my recollection, transported to Matheson, the base of operation and submitted to the supervisory personnel.

Subsequently, these data were supposedly forwarded to Canadian Gold & Metals Exploration Office near Gogama but recently during the preparation of field plans for the purpose of submitting for assessment credits, the field notes in question could not be encountered.

Witness

Kalvin Black

Date

Ontario

Ministry of Natural Resources

File _____

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) Geophysical (Ground Magnetic & Electromagnetic)

Township or Area Harker and Elliott

Claim Holder(s) John E. Perron
103 Government Road E., Kirkland Lake

Survey Company Canadian Gold & Metals Inc.

Author of Report Mary Greer

Address of Author Box 89, Gogama, Ontario

Covering Dates of Survey August 1981 to Feb. 1982
(linecutting to office)

Total Miles of Line Cut _____

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	20
–Magnetometer	40
–Radiometric	
–Other	
Geological	
Geochemical	

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Feb. 10/82 SIGNATURE: Mary Greer
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)
L-545251
L-545252
L-545253
L-545254
L-545255
L-545256
L-545257
L-545258
L-545259
L-545260
L-547461
L-547462

If space insufficient, attach list

TOTAL CLAIMS 12

OFFICE USE ONLY

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 _____

HARKER TWP M. 353

THACKERY TWP M. 394

TANNAHILL TWP M. 390

CLIFFORD TWP M. 338

6M 7M 8M 9M 10M 11M

5M 4M 3M 2M 1M

17M 16M 15M 14M 13M

1M 2M 3M 4M 5M

48°21'45"

79°45'30"

578851 578380 578046 579121 545260 545259 545256 545255 245254

598751 578852 578381 578048 579122 547461 545258 545257

598756 598752 578853 578867 578868

598757 598755 598753 578869

598758 598754 578870

523686 523687 523688

562070 545343 545344 523689 523690 591684

620913 545385 545536 591673 591672

523680 545383 545384

523684 523682

523685 523683

523681

546385 546386 546387

546391 546392 546393

546396 546395 546394

546397 546398 546399

549657 546401 546400

549658 549659 549660

Ghost Lake

Dickson Lake

Magusi River

Webster Cr.

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

LEGEND

PATENTED LAND	(P) or ●
PATENTED FOR SURFACE RIGHTS ONLY	◒
LEASE	(L)
LICENSE OF OCCUPATION	L.O.
CROWN LAND SALES	C.S.
LOCATED LAND	Loc.
CANCELLED	C.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
HIGHWAY & ROUTE NO.	(17)
ROADS	
TRAILS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	

*used only with summer resort locations or when space is limited

TOWNSHIP OF

ELLIOTT

DISTRICT OF
COCHRANE
LARDER LAKE
MINING DIVISION

SCALE : 1 INCH 40 CHAINS (1/2 MILE)

DR. JBK
DATE 20 Aug 71

PLAN NO. M. 347

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

L 32+00E
L 28+00E
L 24+00E
L 20+00E
L 16+00E
L 12+00E
L 8+00E
L 4+00E
0+00
L 4+00W
L 8+00W
L 12+00W
L 16+00W
L 20+00W
28+00W
24+00W
32+00W
36+00W
40+00W
44+00W

HARKER TWP.
ELLIOTT TWP.

L 9920
L 9922
L 9921
L 9739
L 8650

L-545251
L-545252
L-545253
L-547462
L-545254
L-545255
L-545256
L-545259
L-545260
L-547461
L-545258
L-545257

A
B
C
D

LEGEND
-20%
0
+20%
IN-PHASE
QUADRATURE
PRIMARY FIELD
GOOD
FAIR
POOR

HARKER
PROPERTY
ELLIOTT
LOCATION MAP
SCALE: 1inch to 2 miles

REGISTERED PROFESSIONAL ENGINEER
H. Z. TITTLEY
PROVINCE OF ONTARIO

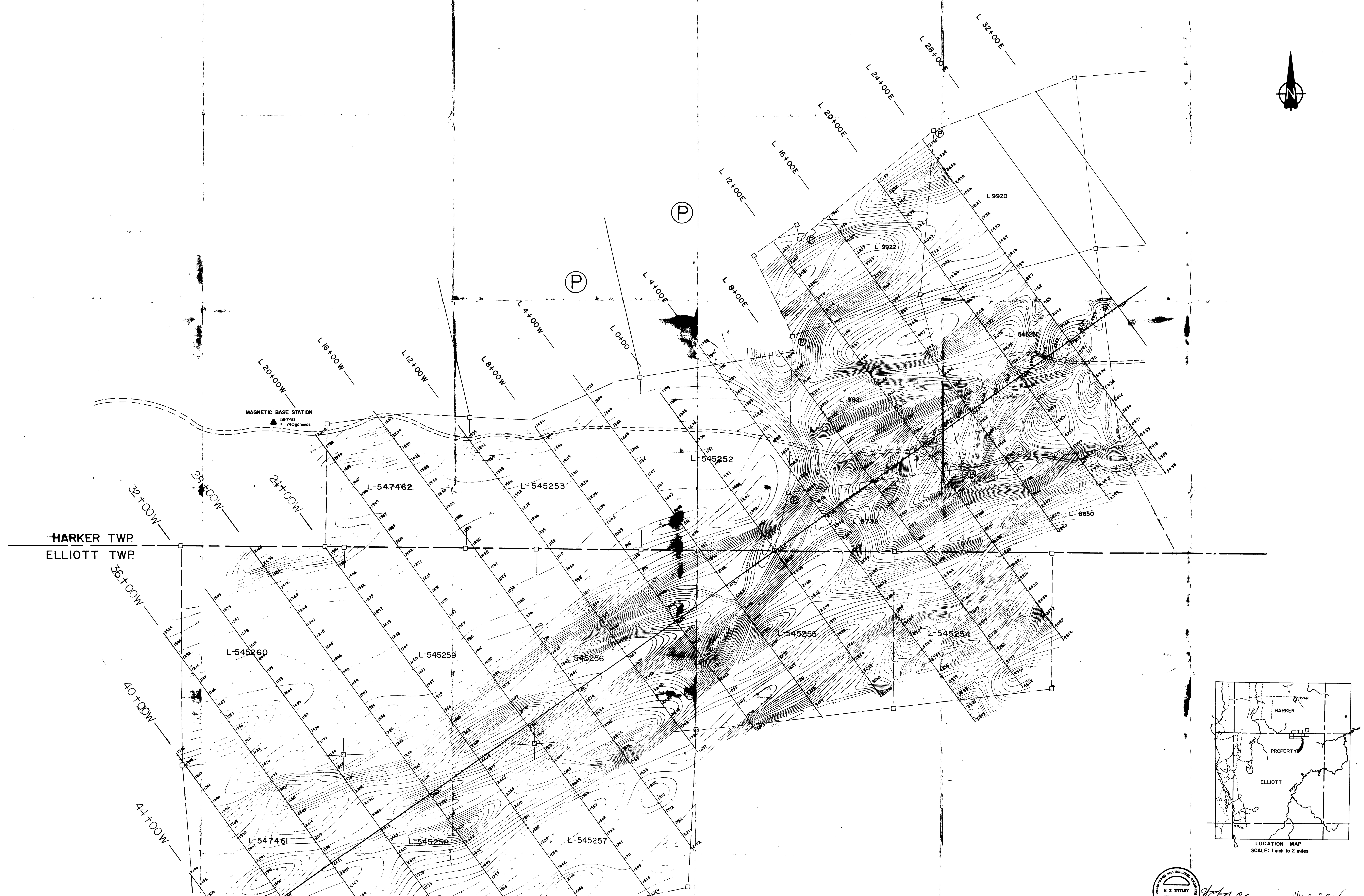
INSTRUMENT USED: GEONICS V.L.F - EM 16
STATION USED - CUTLER, MAINE
FREQUENCY 17.8 KHz

JOHN PERRON
ELLIOTT and HARKER TWP.
V.L.F.-EM SURVEY

SCALE 1" = 200'
DATE FEB.8,1982
DRAWN BY MM GREEN
APPROVED BY H.Z. TITTLEY
TRACED BY G.G ELLIOTT

2.4529

210



▲ BASE STATION
CONTOUR INTERVAL 100 gammas
CONTOURED BY: M.M.GREER

JOHN PERRON	
ELLIOTT and HARKER TWP.	
MAGNETIC SURVEY	
TOTAL FIELD	
SCALE: 1" = 200'	DATE: JAN.15,1982
	DRAWN BY: M.M.GREER
APPROVED BY: H Z. TITTLEY	TRACED BY: G.G. ELLIOTT

2.4529

220

L 32+00E
L 28+00E
L 24+00E
L 20+00E
L 16+00E
L 12+00E
L 8+00E
L 4+00E
L 0+00
L 4+00W
L 8+00W
L 12+00W
L 16+00W
L 20+00W

L 9920
L 9922
L 9921
L 9739
L 8650

Conductor D
Conductor B

L-545251
L-545252
L-545253
L-547462
L-545254
L-545255
L-545256
L-545257
L-545258
L-547461
L-545259
L-545260

HARKER TWP.
ELLIOTT TWP.

LEGEND
20%
0
-20%
IN-PHASE
QUADRATURE
PRIMARY FIELD
GOOD
FAIR
POOR

HARKER
PROPERTY
ELLIOTT
LOCATION MAP
SCALE 1 inch to 2 miles

INSTRUMENT USED: GEONICS V.L.F - EM 16
STATION USED — CUTLER, MAINE
FREQUENCY 17.8 KHz
Mary Greer

ALEX H. PERRON
ELLIOTT and HARKER TWP.
V.L.F.-EM SURVEY

SCALE 1"= 200'
DATE FEB 8, 1982/Revised MAR. 1982
DRAWN BY M.M.GREER
TRACED BY S.G.ELLIOTT
APPROVED BY H.Z. TITTLEY

230

2 4529