



52F10SW0011 2.6491 VAN HORNE

010

REPORT
ON
VLF-EM MAGNETOMETER SURVEYS
OVER
"GLATZ PROPERTY"
OF
VAN HORNE GOLD EXPLORATION INC.
DRYDEN AREA
KENORA MINING DIVISION, ONTARIO

RECEIVED

MAR 13 1984

MINING LANDS SECTION



2.4567

R. Gillick
Geophysicist
December, 1983

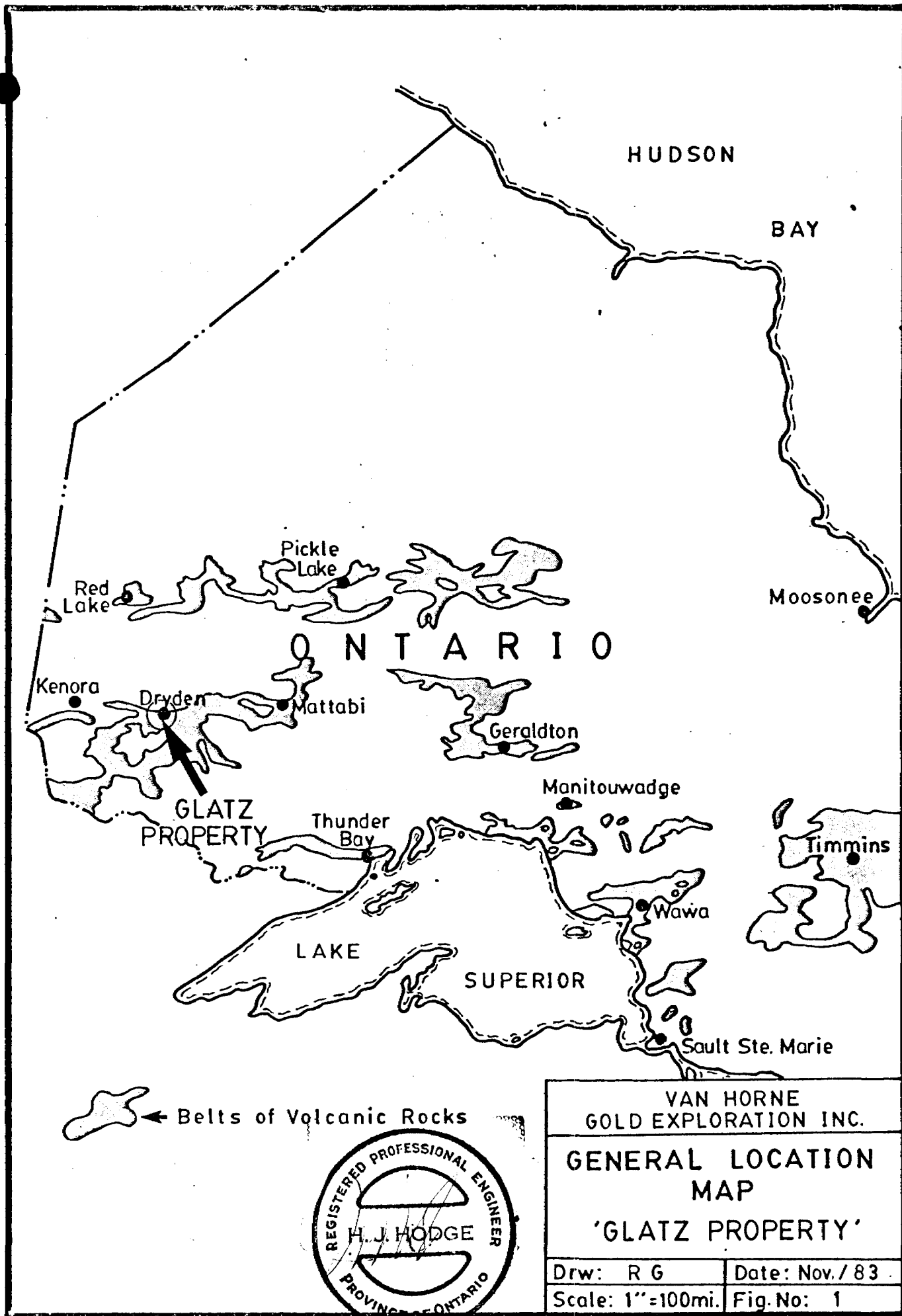


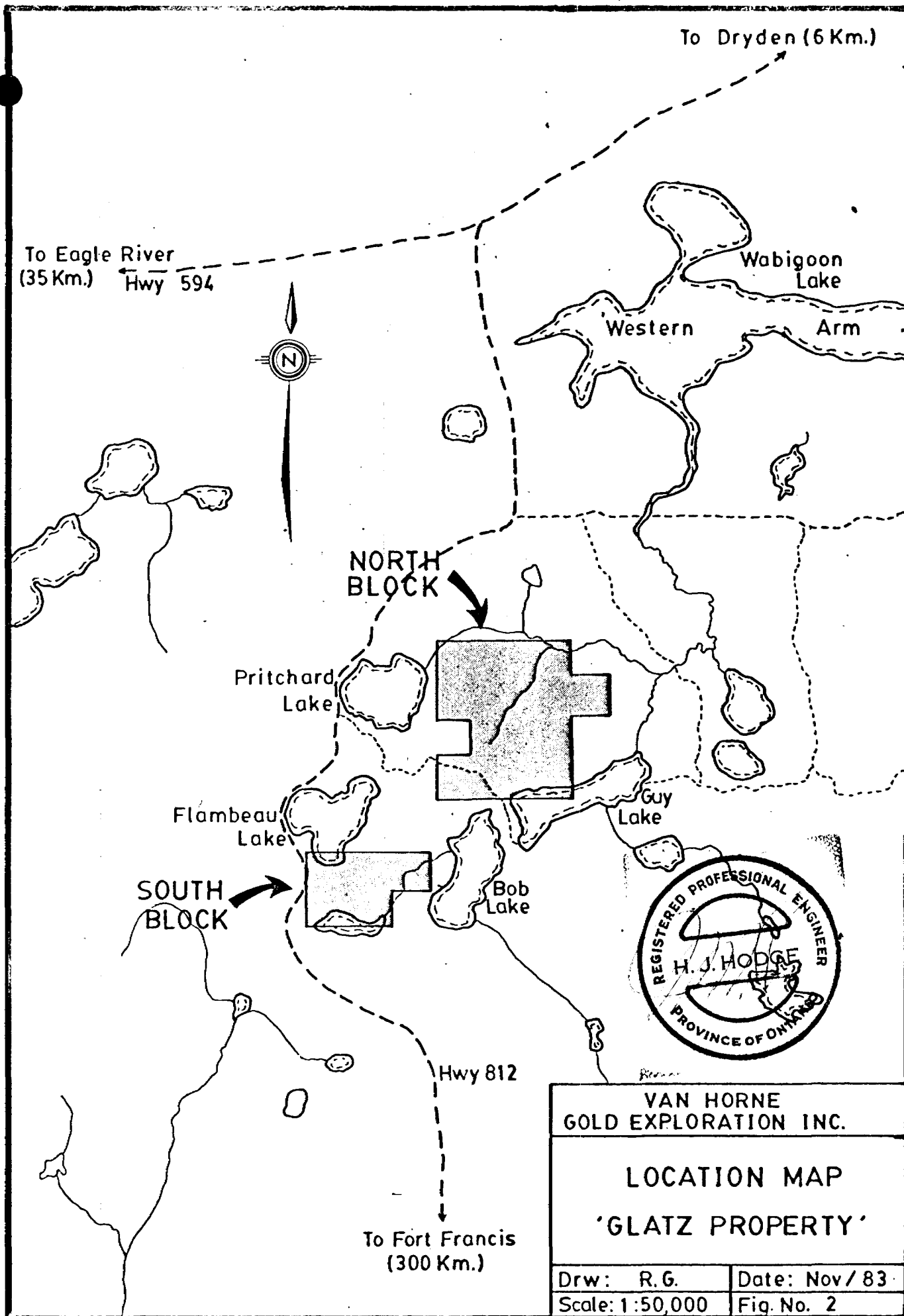
52F10SW0011 2.6491 VAN HORNE

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010C

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SUMMARY

This report describes results of VLF EM and Magnetic surveys over the Glatz property of Van Horne Gold Exploration - Watson Lake Mines Ltd., located in Van Horne Township, Dryden area, Ontario.

The surveys provide lithological and structural information about the 'Glatz Property'.

Mineralization of the type found on the property, does not produce an EM response nor is it significantly magnetic. However, the surveys provide lithological and structural information which may help direct further exploration for gold deposits. It is suggested that further geophysical work be carried out using the induced-polarization method. Estimated cost for a reconnaissance I.P. survey is \$7,500.

INTRODUCTION

The following report describes ground geophysical surveys (VLF-EM and magnetics) carried out during August and September of 1983 over the 'Glatz Property' of Van Horne Gold Exploration Inc., and Watson Lake Mines Ltd. in the Dryden area of Western Ontario.

The 'Glatz Property' consists of two (2) blocks of claims located near Highway 812 approximately ten kilometres south of the town of Dryden, Ontario. The North Block contains a total of 12 claims and is situated just east of Pritchard Lake. The South Block (5 claims) is adjacent to Highway 812 and immediately south of Flambeau Lake (Figure 2).

Highway 812 from Dryden allows direct access to the south group and passes within one kilometre of the north group. This latter group can then be reached from Highway 812 either by boat across Pritchard Lake or on foot along a trail passing around Pritchard Lake to the south.

GEOLOGY

a) Regional

The 'Glatz Property' lies at the western end of the Wabigoon volcanic belt. The rock types are predominantly intermediate to mafic lavas of Archean Age with minor felsic flows and intrusives. The Wabigoon belt is bounded to the north by the English River subprovince composed mainly of clastic metasediments and granitoid rocks. The contact between the two subprovinces is located about 6.5 kilometres north of the 'Glatz Property'. About 6.5 kilometres south of the property, the Wabigoon belt is terminated by its contact with mafic intrusives and a large granite batholith.

b) Local

The 'Glatz Property' itself is underlain mainly by intermediate to mafic lavas (both massive and pillowed) and their fragmental phases. Felsic volcanics and intrusives also occur

to a minor degree, the intrusives mostly as dykes and the volcanics as rhyolitic tuffs and agglomerates.

Carbonatization of the lavas is common occurring as disseminated iron carbonate as well as quartz-carbonate in stringers and veins.

For a more detailed description of the geology underlying the property see a forthcoming report by T. Jolliffe.

c) Mineralization

Numerous gold occurrences have been reported on the North Block. These are mostly of two similar types:

- 1) Gold in quartz-filled fissure veins with ankerite, minor tourmaline, pyrite and less commonly chalcopyrite, galena and sphalerite.
- 2) Gold in veinlets, stringers and stockworks in fractured and carbonatized felsic and mafic rocks.

A detailed geological investigation of the property has recently been completed. A full description of mineralization will be found in the forthcoming report by T. Jolliffe.

HISTORY

The first report of gold in this area was in 1898 by A.P. Coleman. Until 1923 small scale mining was carried on from several shafts immediately to the east of the Glatz North Block. During this same period, trenching as well as pit and shaft work was carried out in several areas of the North Block. At least one producing mine operated on the property in the early part of the 20th century, however, no production records are available.

A. Glatz acquired the property in 1980. He discovered a new mineralized zone near the western boundary of the North Block and carried out stripping and plugger drilling on this zone.

In January of 1981, the property was purchased Jointly by Van Horne Gold Exploration Inc. and Watson Lake Mines Ltd., both of Toronto, who each hold 50% interest in the property.

PRESENT PROGRAM

Between the dates of August 1st and September 26th, 1983, linecutting, VLF-EM and total field magnetic surveys were carried out over the north and south groups of the 'Glatz Property'.

The mileage breakdown for the work performed is as follows:

Linecutting:	North Block	21.51 miles (34.62 km.)
	South Block	8.52 miles (13.71 km.)
Magnetometer Surveying:	North Block	21.07 miles (33.91 km.)
	South Block	6.25 miles (10.06 km.)
VLF-EM Surveying:	North Block	18.60 miles (29.93 km.)
	South Block	5.49 miles (8.84 km.)

The grid cutting was performed by CDI Surveys Inc. of Val d'Or, Quebec. Lines oriented north-south were cut at two hundred foot intervals over both the north and south claim groups. Pickets were placed every hundred feet along all grid lines, tie lines and baselines.

The geophysical surveys were carried out by R. Gillick of North Bay, Ontario, during the two periods; August 30th to September 5th, 1983, and September 15th to September 26th, 1983, inclusive.

The magnetic survey was performed using a GSM-8 proton precession magnetometer with a reading accuracy of one gamma. Readings were taken at 50 foot intervals along all grid lines. Drift changes were estimated by re-reading previously established stations at time intervals not exceeding 1.5 hours. The results of the survey were plotted and contoured (Maps N-1 and S-1).

The VLF-EM Survey was performed with a Geonics EM-16 unit tuned to receive the 17.8 KHz from a transmitter at Cutler, Maine (NAA). Readings of in-phase (tilt angle) and quadrature were

taken at 50 foot intervals along all grid lines. The results of the survey are shown as profiles on Maps N-2 and S-2.

Concurrent with the geophysical program described above, detailed geological mapping of the property was performed. The results of that investigation will be described in a forthcoming report by T. Jolliffe.

RESULTS AND INTERPRETATION

VLF conductors are shown on maps N-2 and S-2. The conductors have been classified as primary or secondary according to their general amplitude, signature-shape and strike length characteristics as well as their locations, relative to volcanic stratigraphy.

NORTH GRID

The majority of the VLF conductors on this grid lie along the outlines of the outcrops suggesting surficial conductivity. However, the larger amplitude responses (A-A', B-B', C, D, E) indicate significant current densities in the ground and may represent bona fide bedrock conductors.

No direct correlation appears to exist between the magnetics and any of the VLF conductors on this grid.

The A-A' Conductor system lies roughly between two zones of increased magnetic response. These zones are probably regions of increased magnetite content within the intermediate to mafic volcanics which underly most of the grid. Conductors A and A' show an overall strike length of more than 2,400 feet. The system may represent a fault or shear.

The B-B' Conductor system consists of two parallel conductors striking eastwest for a strike length of 1,600 feet. The peak-to-peak amplitudes are as high as 170 percent (136E). The system lies along an overburden-filled trough with outcrop to the north and south. Parallel shears or faults are possible sources. No magnetic correlation is apparent.

Conductor C strikes from line 00 roughly eastwest to line 16E. This conductor continues off-property to the west.

Peak-to-peak amplitudes range as high as 80%. The sharp responses on lines 00 and 10E indicate a thin shallow conductor-possible a sulfide vein or mineralized fault.

A major diabase dyke is located about 800 feet south of conductor C. The dyke strikes approximately parallel to the conductor and is evident in the magnetics as a ridge of 2,000 to 3,000 gammas running along the southern boundary of the property.

Conductors D and E are both located in regions of relatively low magnetic relief. These conductors may represent shears or faults within more felsic volcanics or pyroclastic rocks.

SOUTH GRID

The north and east parts of this grid are underlain predominantly by felsic volcanic rocks. These are characterized by the generally low magnetic relief. Some scattered anomalous magnetic peaks and ridges may indicate more mafic rock types - possibly intrusives.

Several significant conductors are located in this portion of the grid.

Conductor A strikes southeastward from line 18E to line 26E for an on-property strike length of about 900 feet. This conductor continues off property to the northwest. Peak-to-peak amplitudes are moderate, ranging as high as 42% on line 20E. The conductor is very linear and the anomaly signature well-developed. The depth to the top of this conductor is estimated to be less than 25 feet on line 20E, however depth appear to be increasing to the southeast. There is no associated magnetic response with this conductor. A possible source is a fault or shear.

The southwest part of the grid exhibits generally higher magnetic relief. This may be due to more mafic lavas or possibly intrusives in this area.

Conductor system B-B' lies just to the north of this more magnetically responsive area. The overall strike length of this conductor system is about 1,200 feet. In-phase anomaly amplitudes range as high as 66% (L4E). This system may represent an east-south-east trending fault or shear. Conductors B and B' may also be fault displaced segments of the same conductor.

Conductor C in the southwest corner of the grid appears to correlate with a weak southeastward striking magnetic ridge. The anomaly due to Conductor C is distorted somewhat by a swamp anomaly to the south, however, there still appears to be a moderate to strong response from Conductor C itself. It is estimated that the peak-to-peak response of this anomaly (without distortion) could be as high as 80 to 100 percent. Conductor C may represent a sulfide vein or mineralized fault.

In the southeast corner of the grid a dual conductor system (D and E) strikes approximately, eastwest from line 32E to line 40E. Again, magnetic correlation is nil. The amplitudes of anomalies D and E appear moderate, however, anomaly shapes have been severely distorted by mutual interference as well as interference with the swamp anomaly to the north.

CONCLUSIONS AND RECOMMENDATIONS

The present surveys appear to yield general lithological and possibly structural information on the north and south grids of the 'Glatz Property'. However, results over the old shaft zone on line 16E suggests that the EM method is not well-suited for direct detection of mineralization on these properties.

It is recommended that further geophysical investigation of these properties be carried out using the induced-polarization method which will detect disseminated mineralization.

A reconnaissance-type I.P. survey which would involve test profiles over known mineralized zones as well as profiles across each of the labelled VLF conductors on maps 'N-2' and 'S-2' and profiles across selected geological targets, would involve a maximum of about 10 miles of surveys at a total cost of \$7,500.

Respectfully submitted,

R.E. Gillick



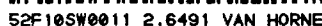
H.J. Hodge

GEOCANEX.



REFERENCES

1. An Evaluation of the Glatz Gold Property - 1981.
W.G. Wahl Ltd.
2. Geology of the Dryden-Wabigoon Area, ODM Report - 1941
J. Satterly.
3. Personal communication with T. Jolliffe.



900

Mining Claims Traversed (List in numerical sequence)1362 (81/9)

For Office Use Only		
Total Days Cr. Date Recorded	Mining Fee	
Recorded	1800	
Date Approved as Recorded	Break Director	

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS — If more than one survey, specify data for each type of survey

Number of Stations 3000 Number of Readings 3000
 Station interval 50 feet Line spacing 200 feet
 Profile scale 1" = 400 ft
 Contour interval 200, 1500, 2000, 3000

MAGNETIC

Instrument GSM 8 Proton Precession Magnetometer
 Accuracy — Scale constant one gamma
 Diurnal correction method looping in to base stations
 Base Station check-in interval (hours) not exceeding 1.5 hours
 Base Station location and value —

ELECTROMAGNETIC

Instrument GEONICS EM-16
 Coil configuration HORIZONTAL MODE
 Coil separation INFINITY
 Accuracy —
 Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line
 Frequency 17.8 KHZ - CUTLER MAINE
(specify V.L.F. station)
 Parameters measured In Phase & Quadrature

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 _____

General _____

[illegible]

2.6491

1984 08 14

Your File: 62-84
Our File: 2.6491

Mrs. Mary Ellen Lemay
Acting Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Madam:

RE: Notice of Intent dated July 19, 1984
Geophysical (Magnetometer & Electromagnetic) & Geological
Survey on Mining Claims K 590978 et al in
Van Horne 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, Ontario
M7A 1W3
Phone: (416) 965-6918

S. Hurst:sc

cc: Van Horne Gold Explorations Inc
Suite 700
11 Adelaide Street West
Toronto, Ontario
M5H 1L9

cc: Mr. G.H. Ferguson
Mining & Lands Commisisoner
Toronto, ontario

cc: Resident Geologist
Kenora, Ontario



Ontario

Ministry of
Natural
Resources

Technical Assessment Work Credits

File

2.6491

Date

1984 07 19

Mining Recorder's Report of
Work No. 62-84

Recorded Holder

VAN HORNE GOLD EXPLORATION INC

Township or Area

VAN HORNE TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical _____ 40 _____ days	K 590978-79-80 672567 706027 672025-26-30 590558-59
Electromagnetic _____ 20 _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
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 77 (16) for the following mining claims

30 DAYS ELECTROMAGNETIC
15 DAYS MAGNETOMETER

K 672027-28-29
590561-62-63

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☒ Insufficient technical data filed

K 706028
590560

NO GEOLOGICAL CREDITS ALLOWED - MAPS AND REPORT NOT RECEIVED

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;



Aug 2, 1984

1984 07 19

Our File: 2.6491
Your File: 62-84

Mrs. Mary Ellen Lemay
Mining Recorder (Acting)
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Madam:

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,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

RW S. Hurst:mc

Encls.

cc: Van Horne Gold Explorations Inc
Suite 700
11 Adelaide Street West
Toronto, Ontario
M5H 1L9

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

FILE



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1984 07 19

2.6491/62-84

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 his 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 direct 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.



804 - 34 King St. East
Toronto, Ontario M5C 1E5
(416) 862-9078

[illegible]

Re: Your File 2.6491
Mining Claims ~~X592478~~ et al
Van Horne Township

VAN HORNE GOLD EXPLORATION INC.

HJH:sh
Enclosures

RECEIVED

JUN 26 1984

MINING LANDS SECTION

June 15, 1984

Our File: 2.6491

Van Horne Gold Exploration Inc
Suite 700
11 Adelaide Street West
Toronto, Ontario
M5H 1L9

Dear Sirs:

RE: Geophysical (Magnetometer & Electromagnetic) Survey
on Mining Claims K 590978 et al in Van Horne Township

Returned herein are the plans (in duplicate) for the above-mentioned survey. Please show claim lines and claim numbers on each plan and return them to this office quoting file 2.6491.

For further information, please contact Mr. Ray Pichette at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

S. Hurst:mc

cc: Mining Recorder
Kenora, Ontario

Encl.



Ontario

Ministry of
Natural
Resources

Geotechnical
Report
Approval

File

2.6491

Mining Lands Comments

☒ To: Geophysics *Mr. Barlow.*

Comments

☒ Approved

☐ Wish to see again with corrections

Date

April 16/88

Signature

RRLW

☐ 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)

1984 03 20

Your File: 62-84
Our File: 2.6491

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5160
Kenora, Ontario
P9N 3X9

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 K 590978 et al in the Township of Van Horne.

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

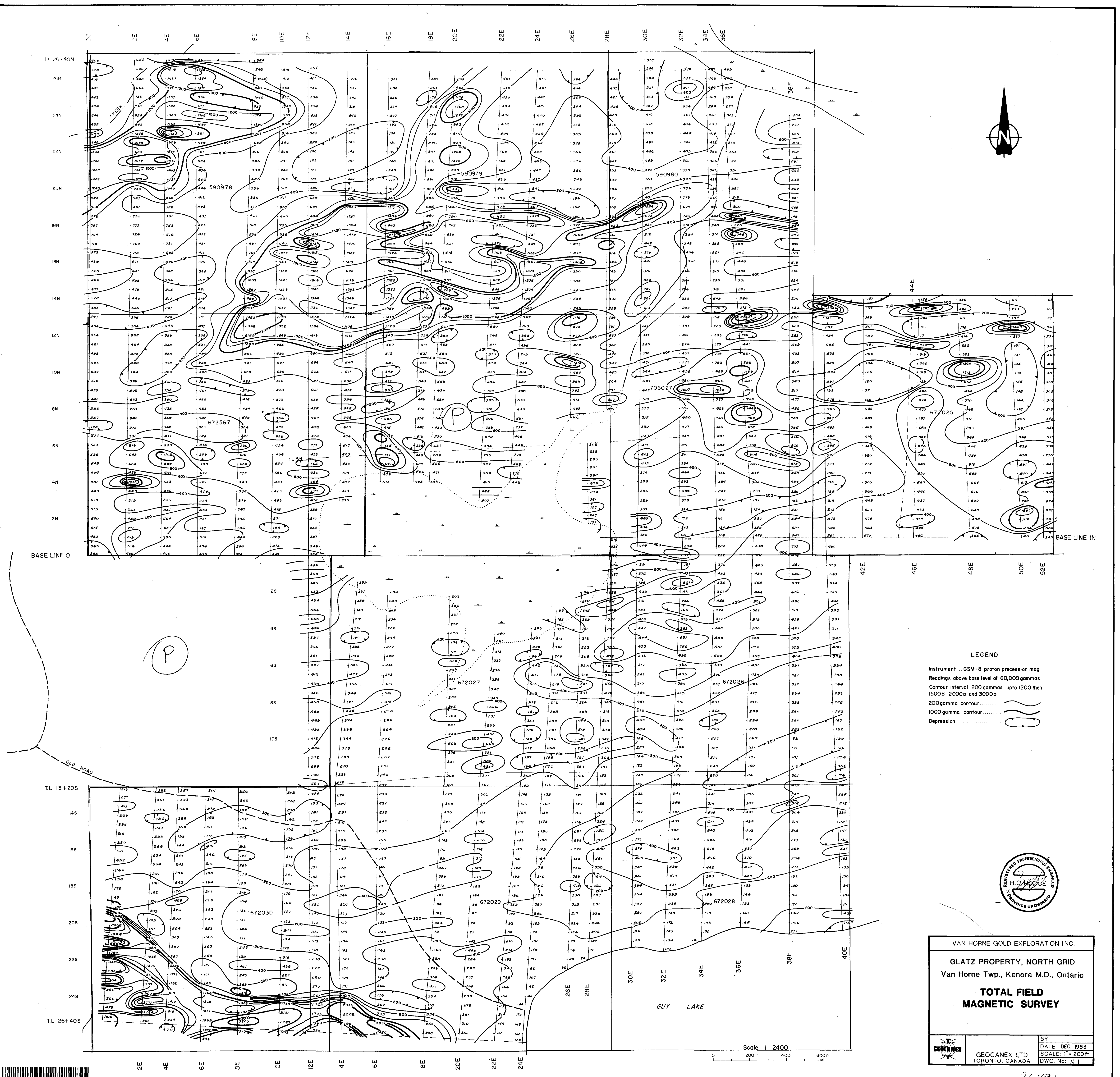
Whitney Block
Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-6918

A. Barr:dg

cc: Van Horne Gold Exploration Inc.
700 - 11 Adelaide Street West
Toronto, Ontario
M5H 1L9

cc: R.E. Gillick
3 - 12 Judge Ave.
North Bay, Ontario
P1A 1B2

	m	EM	GL			2.6491
590978	✓	✓				
79	✓	✓				
80	✓	✓				
672567	✓	✓				
706027	✓	✓				
28						
672025	✓	✓				
26	✓	✓				
27	$\frac{1}{4}$	$\frac{1}{4}$				
28	$\frac{1}{4}$	$\frac{1}{4}$				
29	$\frac{1}{4}$	$\frac{1}{4}$				
30	✓	✓				
590558	✓	✓				
59	✓	✓				
60						
61	$\frac{1}{4}$	$\frac{1}{4}$				
62	$\frac{1}{4}$	$\frac{1}{4}$				
63	$\frac{1}{4}$	$\frac{1}{4}$				
	$\frac{13}{4}$	$\frac{13}{4}$				



LEGEND

Instrument: GSM-8 proton precession mag
Readings above base level of 60,000 gammas
Contour interval: 200 gammas upto 1200 then
1500's, 2000's and 3000's
200 gamma contour:
1000 gamma contour:
Depression:



VAN HORNE GOLD EXPLORATION INC.

GLATZ PROPERTY, NORTH GRID
Van Horne Twp., Kenora M.D., Ontario

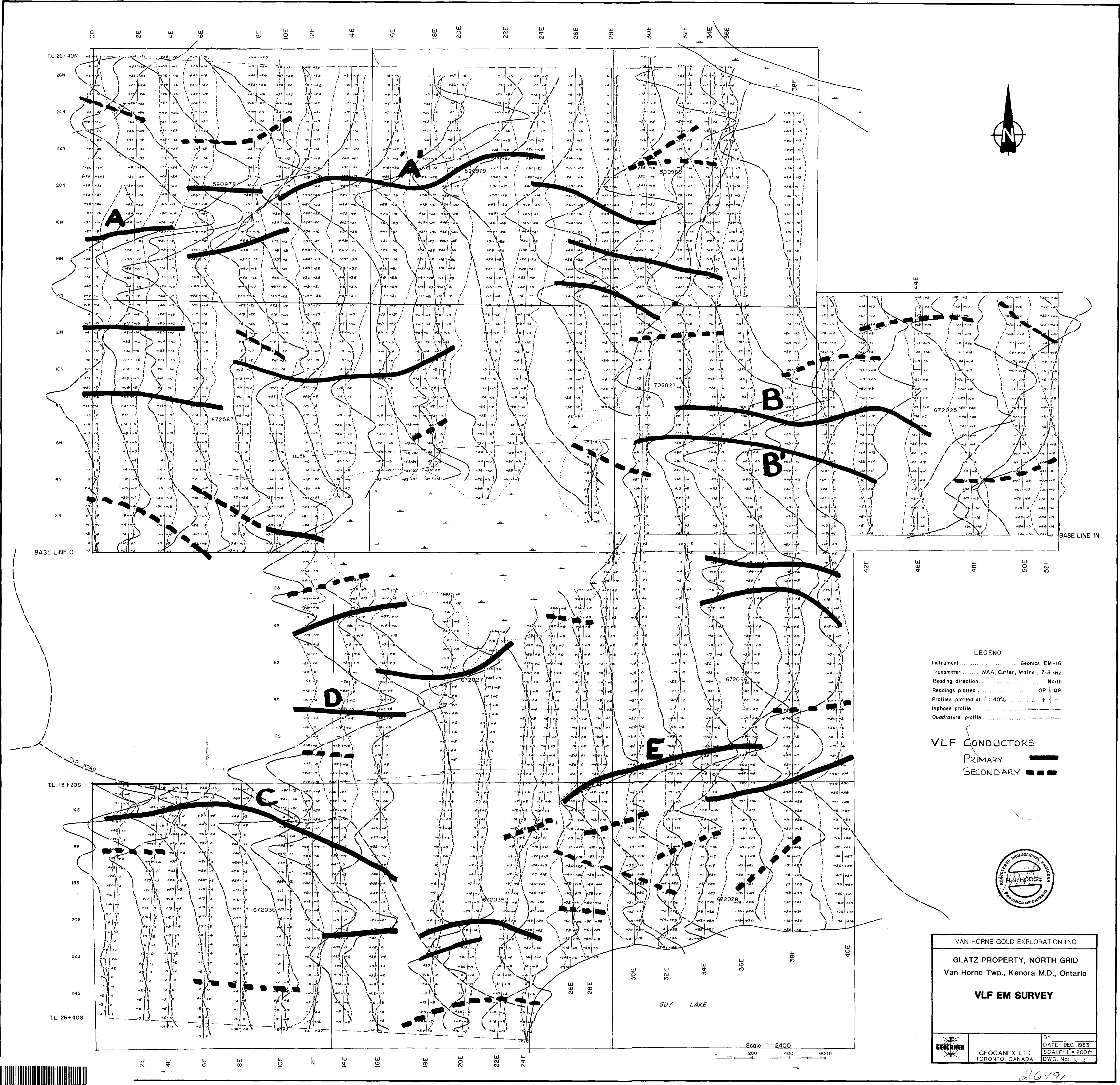
**TOTAL FIELD
MAGNETIC SURVEY**

BY:
GEOCANEX LTD
TORONTO, CANADA

DATE: DEC. 1983
SCALE: 1" = 200 ft
DWG. No: N-1



26491



VAN HORNE GOLD EXPLORATION INC.

GLATZ PROPERTY, NORTH GRID
Van Horne Twp., Kenora M.D., Ontario

VLF EM SURVEY

Scale 1:2400

0 200 400 600 FT

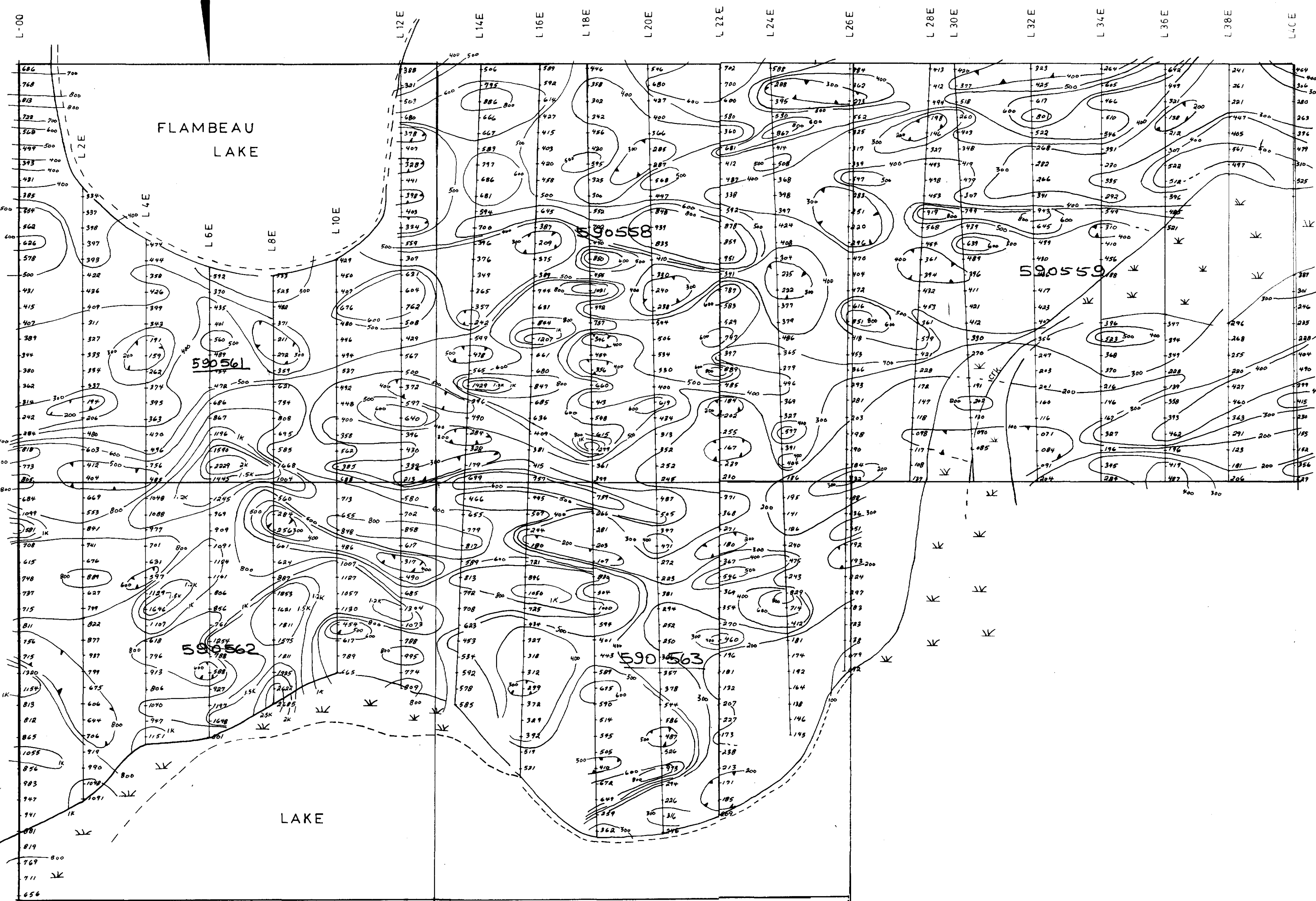
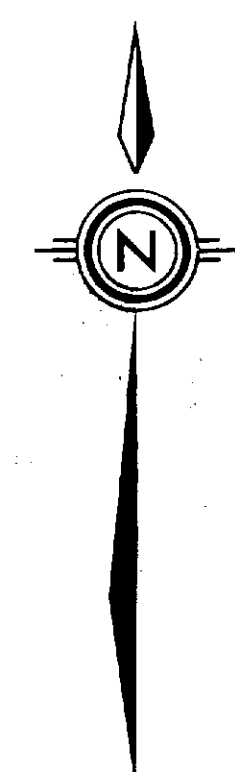
BY: DATE: DEC 1983
SCALE: 1"=200 FT
DWG. No. 26491

GEONICS
GEOCANEX LTD
TORONTO, CANADA

REGISTERED PROFESSIONAL ENGINEER
H.J. HODGE
PROVINCE OF ONTARIO

HWY 502 (POSITION APPROX.)

11. 13+20 N
12+00 N
10+00 N
8+00 N
6+00 N
4+00 N
2+00 N
R.O.
2+00 S
4+00 S
6+00 S
8+00 S
10+00 S
12+00 S



11. 13+20 N
12+00 N
10+00 N
8+00 N
6+00 N
4+00 N
2+00 N
R.O.
2+00 S
4+00 S
6+00 S
8+00 S
10+00 S
12+00 S



LEGEND

Instrument: GSM-8 Proton Precession Magnetometer
Contoured at: 100, 200, 300, 400, 500, 600, 800,
1000, 1200, 1500, 2000, 2500 gammas

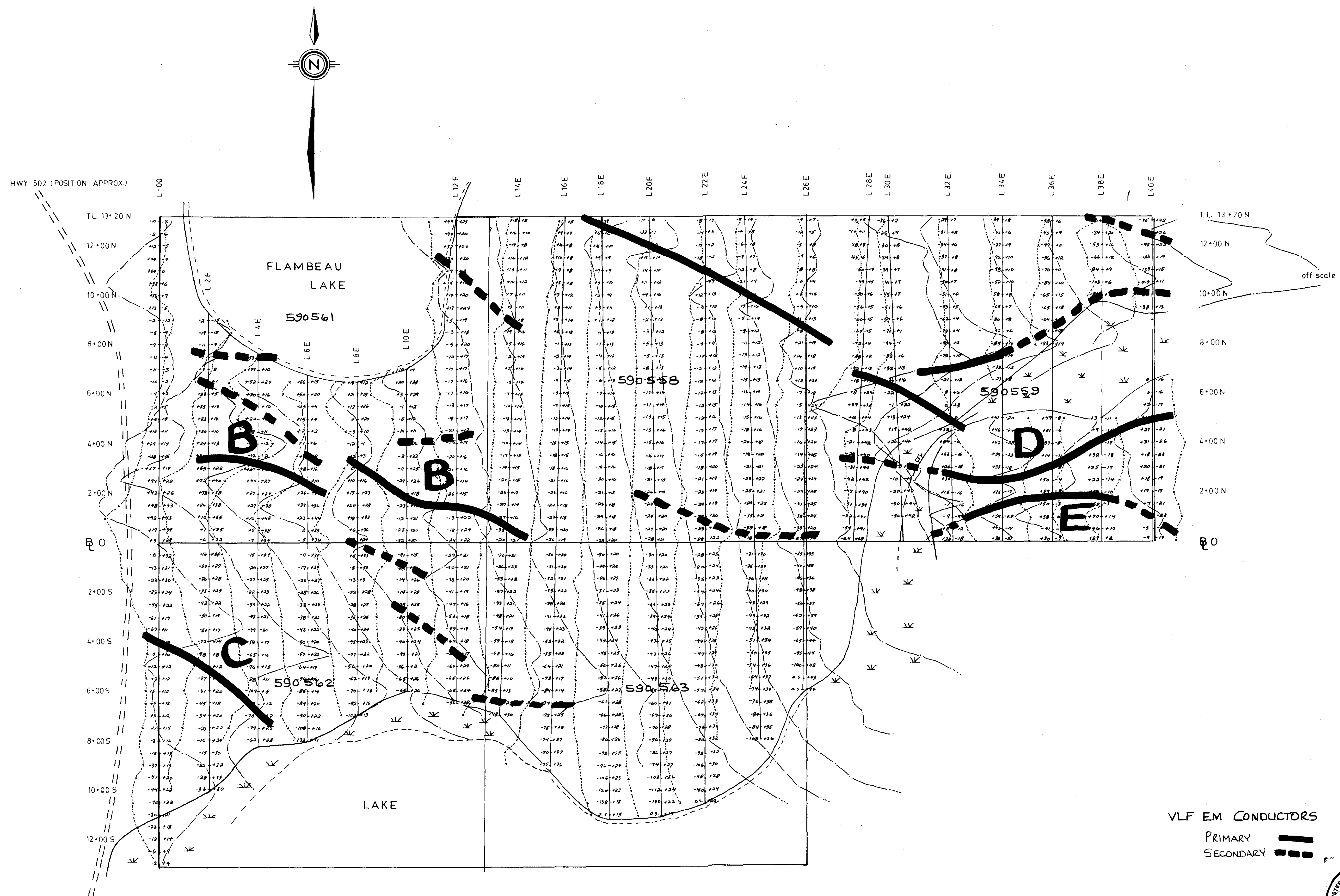
(Note: Plotted Value = Field Value - 60,000 gammas)

VAN HORNE GOLD EXPLORATION INC.

**TOTAL FIELD MAGNETICS
SOUTH GRID**

PROJECT: GLATZ PROPERTY	
SCALE: 1" = 200'	N.T.S. 5" F/10
DRAWN BY: C. USAREWICZ	WORK BY: G. JOHNSON
DATE: SEPT. '83	MAP NO. 1

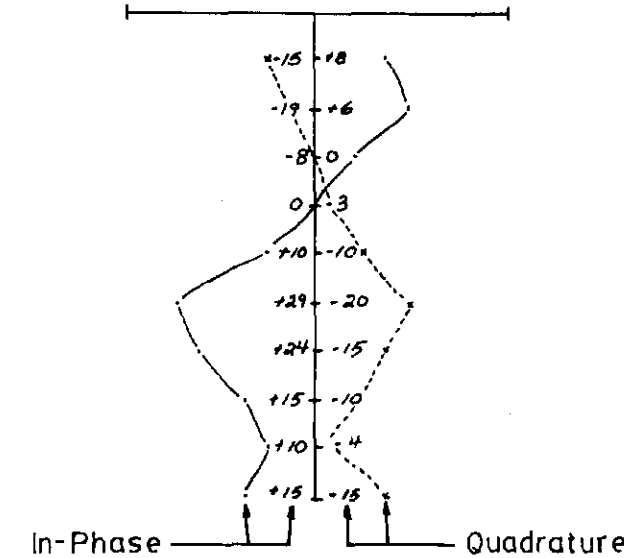




LEGEND

Instrument: GEONICS E.M. - 16
 Transmitter: Cutler, Maine (NAA-17.8 KHz)
 Reading Direction: North
 Plotting Scheme:

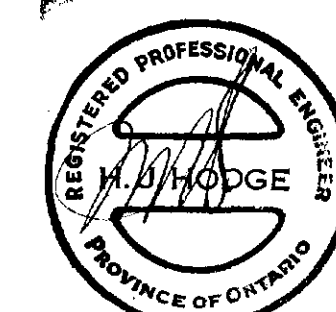
+40% 0 -40% (Scale: 1" = 40')



VLF EM CONDUCTORS

PRIMARY

SECONDARY



VAN HORNE GOLD EXPLORATION INC.

VLF SURVEY SOUTH GRID

PROJECT: GLATZ PROPERTY

SCALE: 1" = 200'

NTS 52 F/10

DRAWN BY: C. USAREWICZ

WORK BY: GEONICS

DATE: SEPT./83

MAP NO. 2

