GOODWIN MINERAL EXPLORATIONS
John R. Goodwin, MSc
Consulting Geologist

010

REPORT ON THE PROPERTY
OF
A. GLATZ
IN THE
TOWNSHIP OF LAVAL
DISTRICT OF KENORA, ONTARIO

June 25/84

NTS 52F/16 SW

R.R. 1, Pine Creek Road • Callander, Ontario P0H 1H0 • 705-752-1204

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INTRODUCTION

Goodwin Mineral Explorations was commissioned by Mr. A. Glatz to report on 4 mineral claims. This report is based on data available relating to the regional geology and previous exploration history of the area, discussions with Mr. M. Hailstone, resource geologist and examination of the assessment files in the district MNR office in Kenora.

LOCATION AND ACCESS

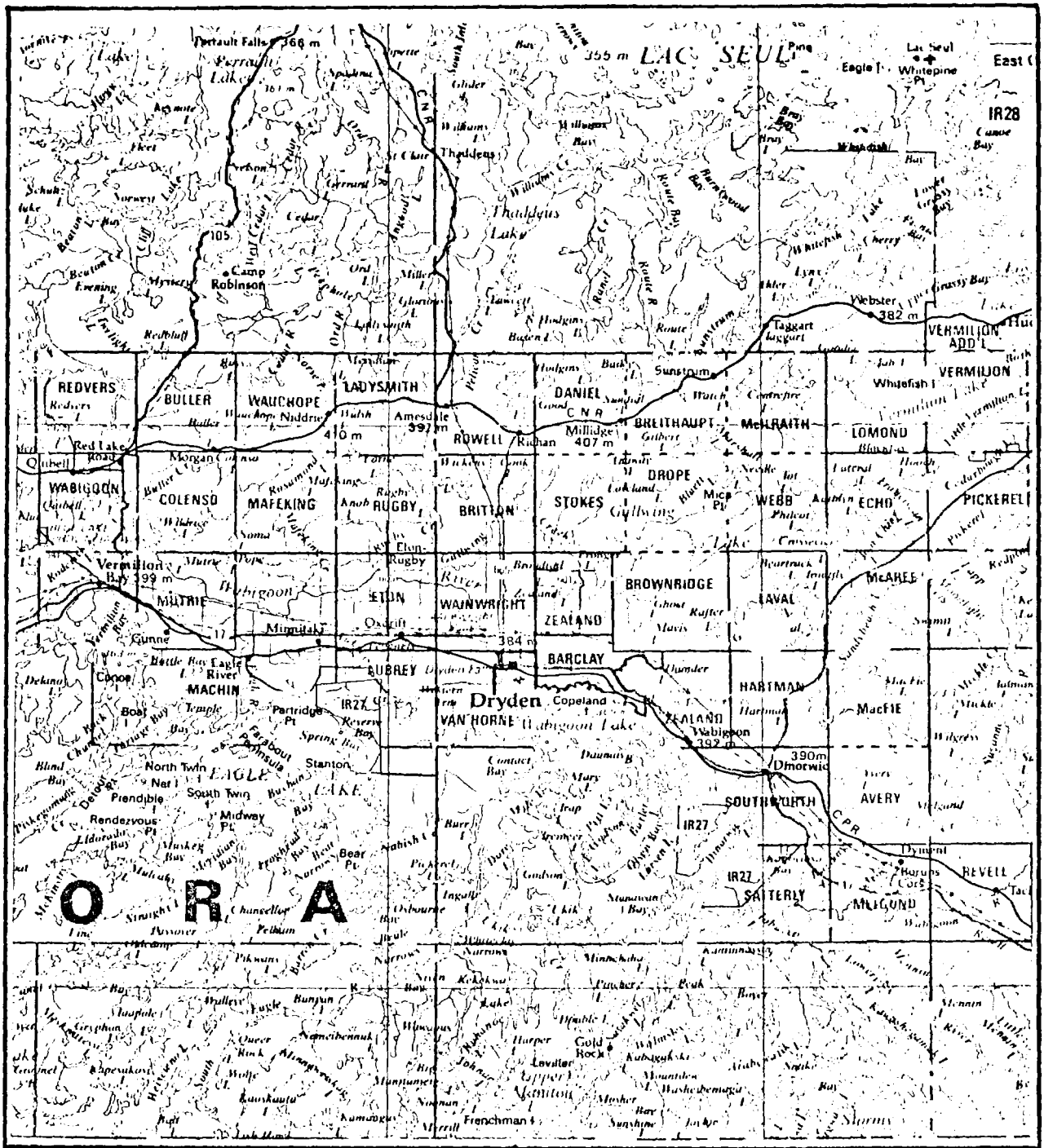
The subject claims consist of 4 unpatented mining claims situated in the southwest quarter of Laval Township approximately midway between Rafter and Diamond Lake as shown in Figure GME4-1. Access to the area is via a gravelled timber road starting at a point 11.5 miles north of the junction of Highway 72 and 17 at Dinorwic.

CLAIM STATUS

The claim group was staked on April 23, 1983 and all rights transferred to Mr. A. Glatz, Dryden. No assessment work was submitted by April, 1984 however an extension was granted until December 23, 1984. (GME4-2).

EXPLORATION HISTORY

In the vicinity of Laval Township, the exploration emphasis has traditionally been for gold. The area was investigated in 1965 by Peñarroya Canada Limited by means of an airborne magnetic and electromagnetic survey. The survey revealed several linear



Source: MNR Map 24-6

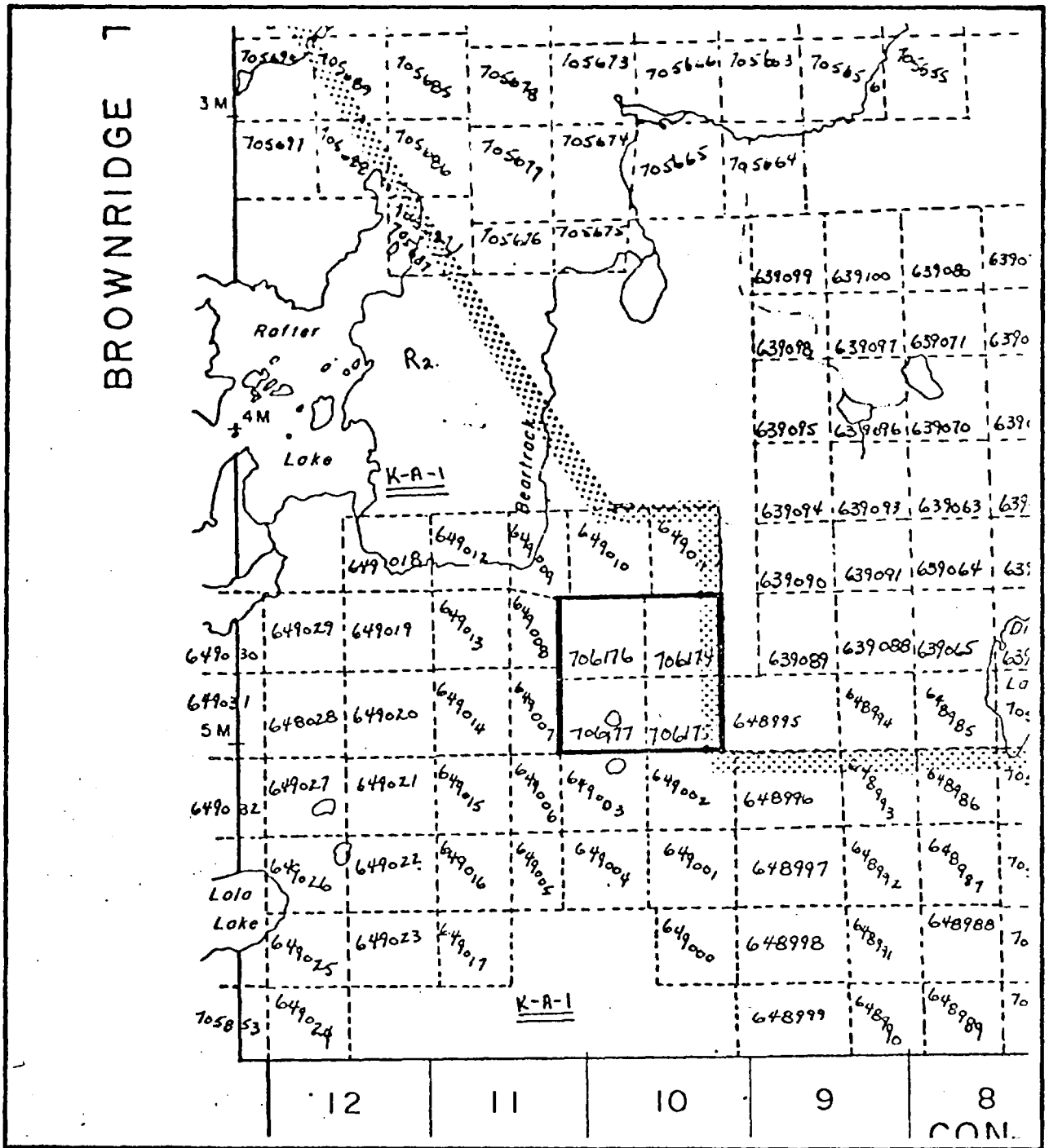
GOODWIN MINERAL EXPLORATIONS

GLATZ CLAIMS

PROPERTY LOCATION

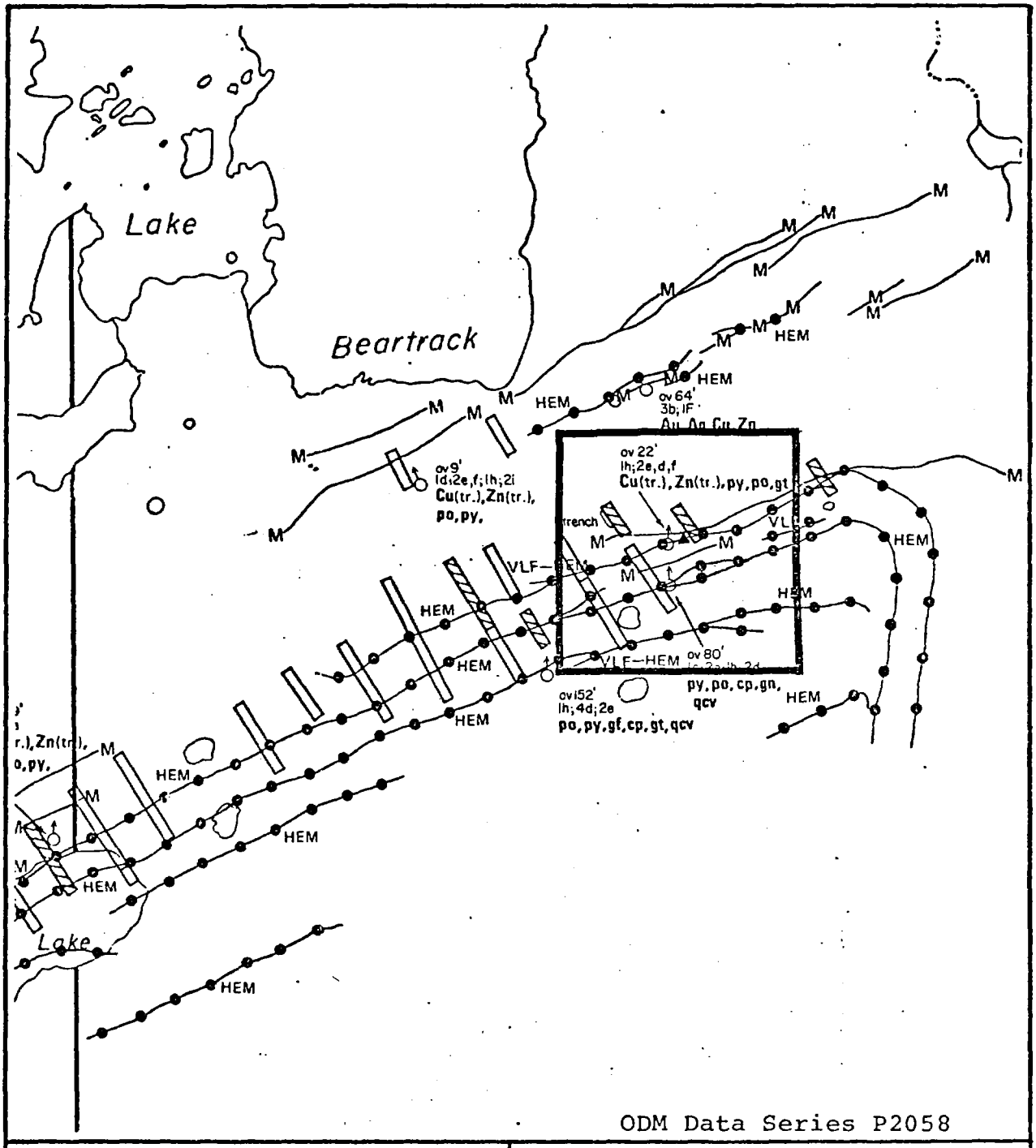
Laval Twp. Dist. of Kenora

Scale 1"=10m. Figure GME4-1



Source MNR PLAN NO. M3370

GOODWIN MINERAL EXPLORATIONS
GLATZ CLAIMS
CLAIM LOCATION
Laval Twp. Dist. of Kenora
Scale 2"=1 m. Figure GME4-2



ODM Data Series P2058

LEGEND

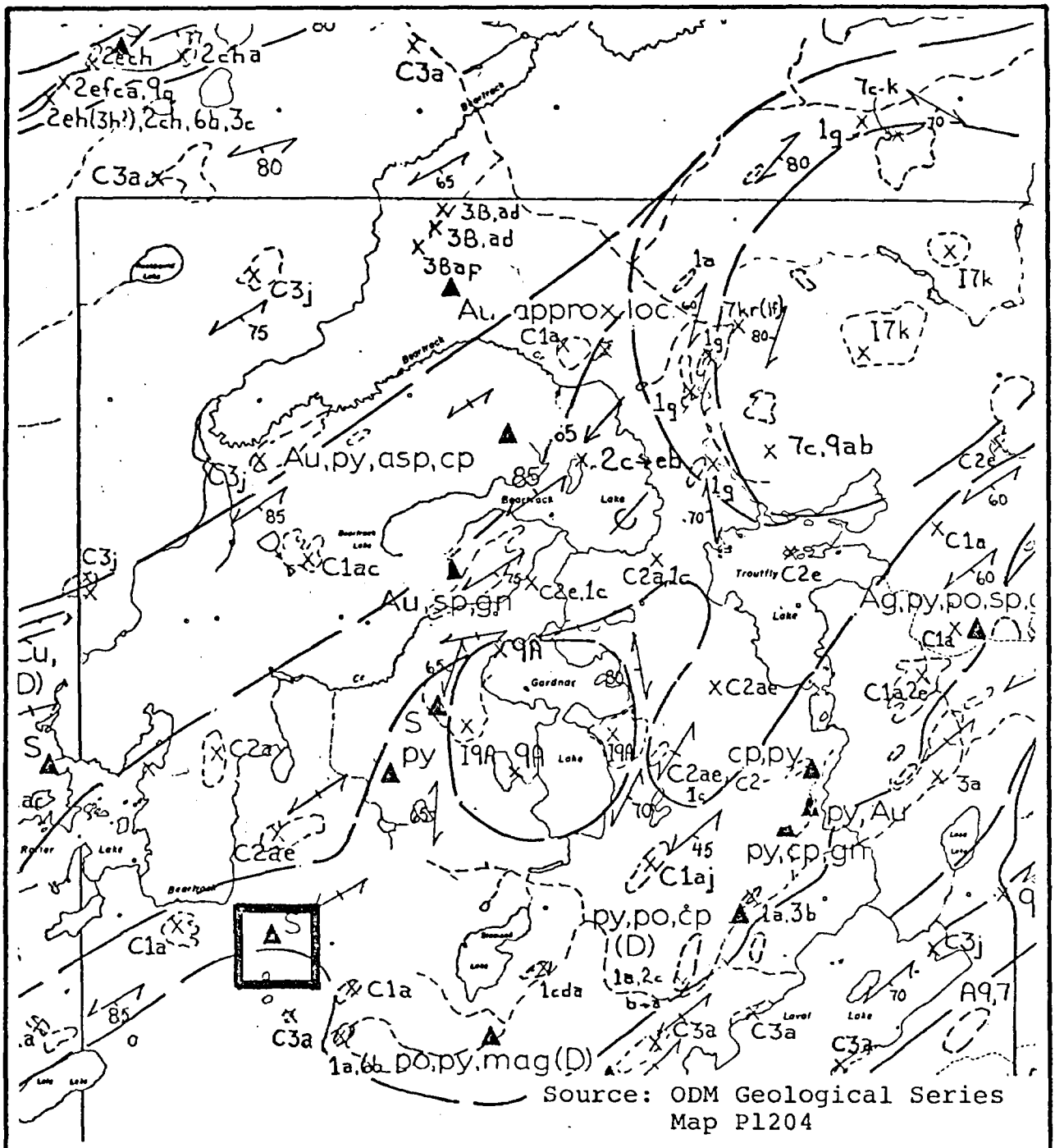
- -Spartan Aero System Anomalies
- -Ground EM conductor
- VEM -Vertical loop
- HEM -Horizontal loop
- -M- -Ground magnetic anomaly
- ▲ S -Mineral occurrence

GOODWIN MINERAL EXPLORATIONS

GLATZ CLAIMS
REGIONAL GEOPHYSICS

Laval Twp. Dist. of Kenora

1"=½ mile Figure GME4-3



Source: ODM Geological Series Map P1204

LEGEND

1a-Mafic flows, 1c-Pillow flows
2b-Felsic to Intermed. volcanics
3 -Metasediments, migmatites
  a-greywacke
  c-siltstone,quartzite,chert
  j-biotite-quartz-plagioclase
9 -Biotite trondhjemite
▲ -Mineral occurrence

GOODWIN MINERAL EXPLORATIONS
GLATZ CLAIMS
REGIONAL GEOLOGY
Laval Twp. Dist. of Kenora
Figure GME4-4
1"=1mile

anomalies straddling the main volcanic-sedimentary contact to the south of the subject claims. The type and extent of ground follow-up carried out is not known, however the results apparently justified a drill program as a drill hole setup and core was located just east of the main showing. (GME4-3).

In 1976, Hollinger Mines Limited conducted ground magnetometer, HEM and geological surveys over a large claim group including the main showing. As a result of these surveys, two drill holes were contracted to test the main showing and one drill hole near the southwest corner of the Glatz claims tested a moderate HEM anomaly with weak magnetic correlation.

REGIONAL GEOLOGY

The oldest rocks exposed on the property are a layered sequence of mafic to intermediate volcanic lavas. Flow units are continuous and vary from 80 to 500 feet in thickness. Metamorphic equivalents such as amphibolite, hornblende schist and biotite-chlorite schist are also present. A distinct marker unit of porphyritic basalt crosses the property 600 feet north of the main showing. Another distinct unit about 300 feet north of the main showing consists of an aquagene tuff breccia up to 5 feet wide. The felsic volcanic units are principally fragmental although a section of massive, very fine-grained, dark grey to black cherty rhyolite comprises part of the felsic unit in the area of the main showing. (GME4-4).

The main showing is situated in a narrow sequence of intercalated felsic flow units and volcanogenic sediments or tuffs. The sediments consist of alternate black and buff-white bands

up to 2.5 inches. Within the banded sequence is a 12 inch bed of fine grained, dark grey rhyolite. There is a hint of graphite or black carbonaceous material in some of the dark bands. Many of the rocks within the sequence are magnetic due to disseminated magnetite. Two roughly linear and parallel bodies of metadiorite cut the layered volcanic assemblage. They are of irregular shape, trend north-northeast, and vary from 60 to 1200 feet in width. (GME4-5).

METAMORPHIC GRADE

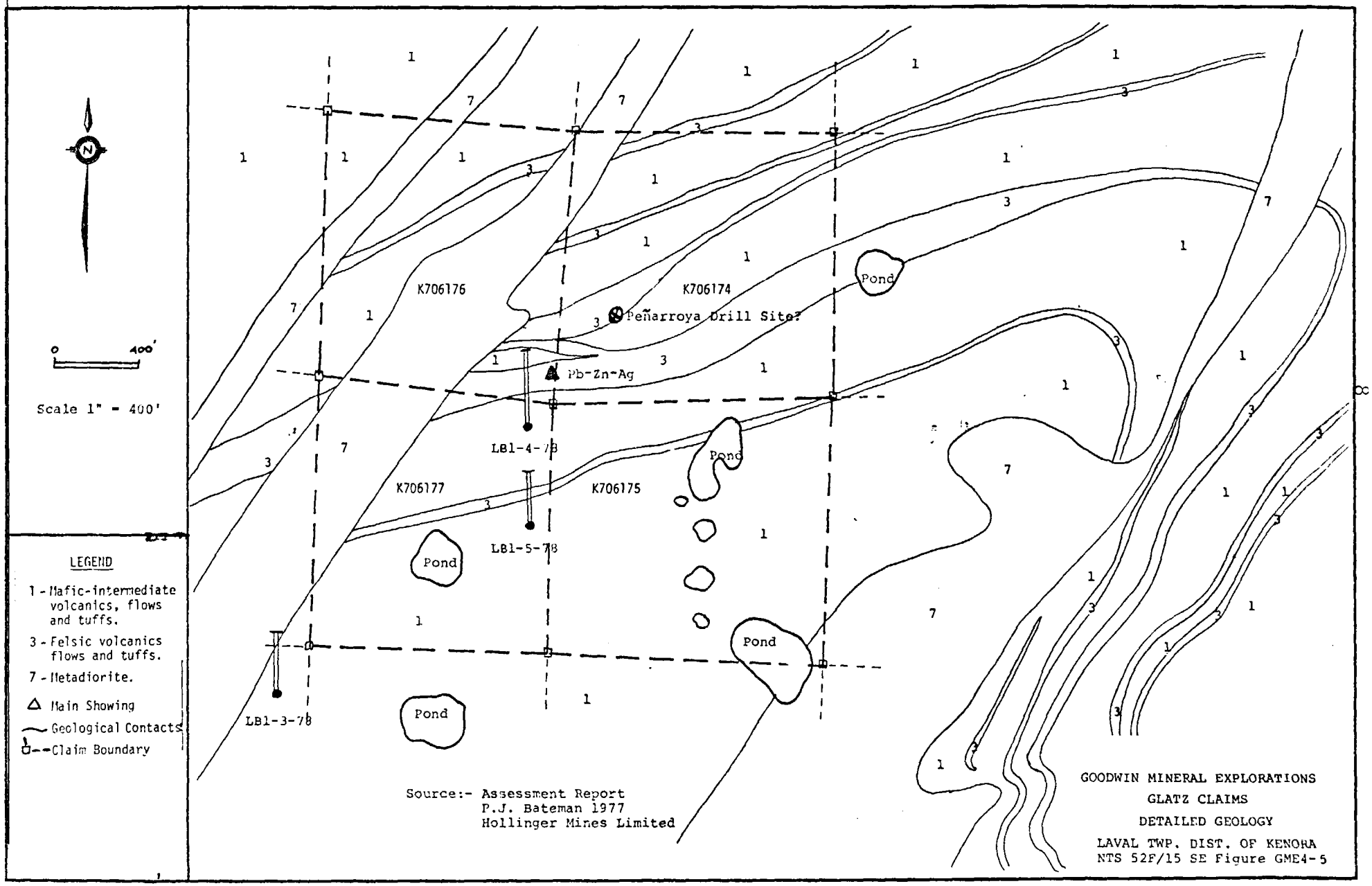
Many of the mafic volcanic rocks have been metamorphosed to hornblende and biotite-chlorite schist, or black, amphibole rich, strongly foliated rocks. This assemblage, combined with the association of almandine, hornblende, albite, and quartz suggests that the rocks are in the high temperature quartz-albite-epidote-almandine subfacies of the greenschist facies.

STRUCTURE

The regional components and observed structural elements suggests that the layered metavolcanic assemblage is synclinally folded around younger metasediments to the south. Late stage faulting is represented by north-northeast fractures parallel to the main synclinal axis and along which the diorite bodies were intruded. These rocks were later cut by a series of north trending faults.

ECONOMIC GEOLOGY

The mineral showing situated at the centre of the subject claims consist of up to 10% fine-grained sulphides within volcanogenic tuffs or sediments near the contact with fine felsic fragmentals. A trench 15 feet by 5 feet exposed pyrite, galena, minor sphalerite and chalcopyrite with traces of pyrrhotite. Some



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Consulting Geologist

good assay values in lead, zinc and silver were obtained, however the distribution seemed to be localized. Other sulphide occurences containing galena, sphalerite and chalcopyrite are present in the area. These sulphides are often associated with quartz veins as rims in internal fractures and/or on the contact with the host rocks.

Several pyritic deposits are situated along or near the volcanic/sedimentary contact and interest has been sparked by drilling on the Goldlund property. One drill hole, 3000 feet east of the old shaft passed through the target granodiorite dyke into a 74 foot section of andesitic tuff mineralized with sphalerite and pyrrhotite. Subsequent drilling failed to uphold such significant widths but did lead to the development of a gold producer.

In 1978, Hollinger Mines Limited drilled the westerly extension of the mineralization exposed in the main showing, a flanking geophysical target, and a moderate HEM anomaly with weak magnetic associations near the southwest corner of the subject claims. Summary logs and geophysical profiles with drill sections are included in Appendix A and B. The anomalies were explained as graphitic tuff and 5% to 15% sulphides consisting of pyrrhotite, pyrite and chalcopyrite and minor galena over 10 to 11 feet. Assays from these holes returned trace values in Cu and Zn but it is not specified if these samples were run for gold.

CONCLUSIONS

The property is underlain by a layered volcanic sequence that has been synclinally folded around a north-northeast axis. The principal felsic volcanic unit occurs on the northwest limb of this fold and is host to the main lead-zinc-silver occurence. Some significant assays have been obtained to date from the sulphide horizon exposed in the trench. Significantly, recently exposed sulphides exposed in the trench extension appear bedded and would suggest a possible sulphide source not too far distant. The geological environment appears favourable for a distal volcanogenic sulphide deposit. The known mineralization has not been tested at depth or on strike to the east which may contain higher grade ore than that encountered in DDH LB1-4-78.

RECOMMENDATIONS

1) Prospect and sample all sulphide showings for gold potential

2) Establish a grid on the property at 300 footline spacing with 100 foot stations.

3) Max Min II and proton magnetometer surveys to trace the conductive zone away from the main showing

4) Trenching and/or diamond drilling to test anomalous zones.

CERTIFICATE

I, John R. Goodwin of RR # 1, Callander, District of Parry Sound in the Province of Ontario.

DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist.

2. I have practiced my profession since 1969

3. I am a graduate of Laurentian University in Sudbury, Ontario where I obtained a MSc degree in Geological Sciences in 1981.

4. I am a Fellow of the Geological Association of Canada.

5. I am a member of the Prospectors and Developers Association.

6. I have no interest in the properties or securities of A. Glatz, nor do I expect to receive or acquire any.

DATED THIS 25th DAY OF JUNE 1984.

JOHN R. GOODWIN, MSc

REFERENCES

Bateman, P.J.	1977. Geology of Laval-Brownridge Group #1 (Kozowy Option), assessment report for Hollinger Mines Limited, Timmins, Ontario.
Breaks, F.W. et at.,	1976. Operation Kenora-Ear Falls, Sandybeach-Route Lakes Sheet; District of Kenora, Ontario Division of Mines Preliminary Map P 1204, Geological Series, Scale 1:63,360
Hailstone, M.	Resource Geologist, Ontario Division of Mines, Kenora District.
Ministry of Natural Resources,	Ontario Division of Mines, Resident geologists office in Kenora - assessment files.

APPENDIX A

DIAMOND DRILL REPORT

LB1-3-7B

HOLE NO. [illegible]

NORTH 0+25S
EAST XL 8W
ELEV. Surface
AZIM. 360° az.
DIP Collar: -50°; 300': -32.5°

PROPERTY LAVAL-BROWNRIDGE #1

BQ Core

COMMENCED February 28, 1978
FINISHED March 4, 1978
PURPOSE OF HOLE to test electromagnetic conductor

Drilled by: Bradley Bros.

FROM	TO	DESCRIPTION	CORE SAMPLES FROM	TO	RECOV.	WIDTH	ASSAY	DESCRIPTION OF SAMPLE
		SUMMARY LOG						
0'	152'	OVERBURDEN						
152'	189.3'	'SHEARED' META-ANDESITE TUFF						
		- 185' to 189.3' - dacite(?) to meta-arkose(?)						
189.3'	219.4'	GRAPHITIC TUFF - 50° to 65° to C.A.						
		- 211' to base, 10%-15% po,py,cp						
219.4'	233'	RHYODACITE TUFF - 219.4' to 228.5' - 5% to 10%						
		po,py,tr.cp.						
233'	294.1'	META-ANDESITE TUFF						
		- 233' to 247' - chloritic andesite to dacite						
294.1'	384'	DIORITE to 'B' FLOW						
		E.O.H. - 384'						

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DIAMOND DRILL REPORT

NORTH 12+00N
EAST XL 4E
ELEV. Surface
AZIM. 360° az.
DIP Collar: -49°; 150': -44.5°; 300': -42°; 450': -40°

PROPERTY LAVAL-BROWNRIDGE #1

BQ Core

HOLE NO. LB1-4-78
COMMENCED March 5, 1978
FINISHED March 9, 1978
PURPOSE OF HOLE to test electromagnetic conductor in vicinity of Pb-Ag-Zn showing

Drilled by: Bradley Bros.

FROM	TO	DESCRIPTION	CORE SAMPLES FROM	TO	RECOV.	WIDTH	ASSAY	DESCRIPTION OF SAMPLE
		SUMMARY LOG						
0'	22'	OVERBURDEN						
22'	152.7'	META-ANDESITE TUFF - 33.5'-39.9' - series of graded dacite to rhyodacite tuff beds. - 132.2'-145.5' - well-foliated mica schist (or interflow metasediment?)						
152.7'	158.6'	RHYODACITE to RHYOLITE TUFF						
158.6'	163.2'	META-ANDESITE TUFF						
163.2'	166.6'	RHYODACITE TUFF						
166.6'	186.5'	META-ANDESITE TUFF						
186.5'	197.8'	GRAPHITIC TUFF and RHYODACITE TUFF - 40° to C.A.						
197.8'	229.4'	META-DACITE						
229.4'	245.6'	GRAPHITIC TUFF and RHYODACITE LAPILLI TUFF						
245.6'	261.7'	META-ANDESITE TUFF						
261.7'	307.5'	INTERCALATED RHYODACITE and GRAPHITE TUFFS						
307.5'	335.3'	GRAPHITIC TUFF - 45° to C.A. - qtz-cemented breccia zone @ 30° to C.A. from 312' to 312.2'						
335.3'	362.9'	INTERCALATED META-ANDESITE TUFF-BRECCIA and AGGLOMERATIC TUFFS						
362.9'	381.3'	AQUAGENE TUFF-BRECCIA - overall dacitic composition						
381.3'	404.4'	FELSIC AGGLOMERATE - fragments to 25 by 10 mm						
404.4'	460.5'	RHYOLITE to RHYODACITE						
460.5'	475'	META-ANDESITE						
		E.O.H. - 475'						

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EAST XL 4E
ELEV. Surface
AZIM. 360° az.
DIP Collar: -55°; 70': -49°; 150': -46.5°; 300': -44.5°

LB1-5-78

PROPERTY LAVAL-BROWNRIDGE #1

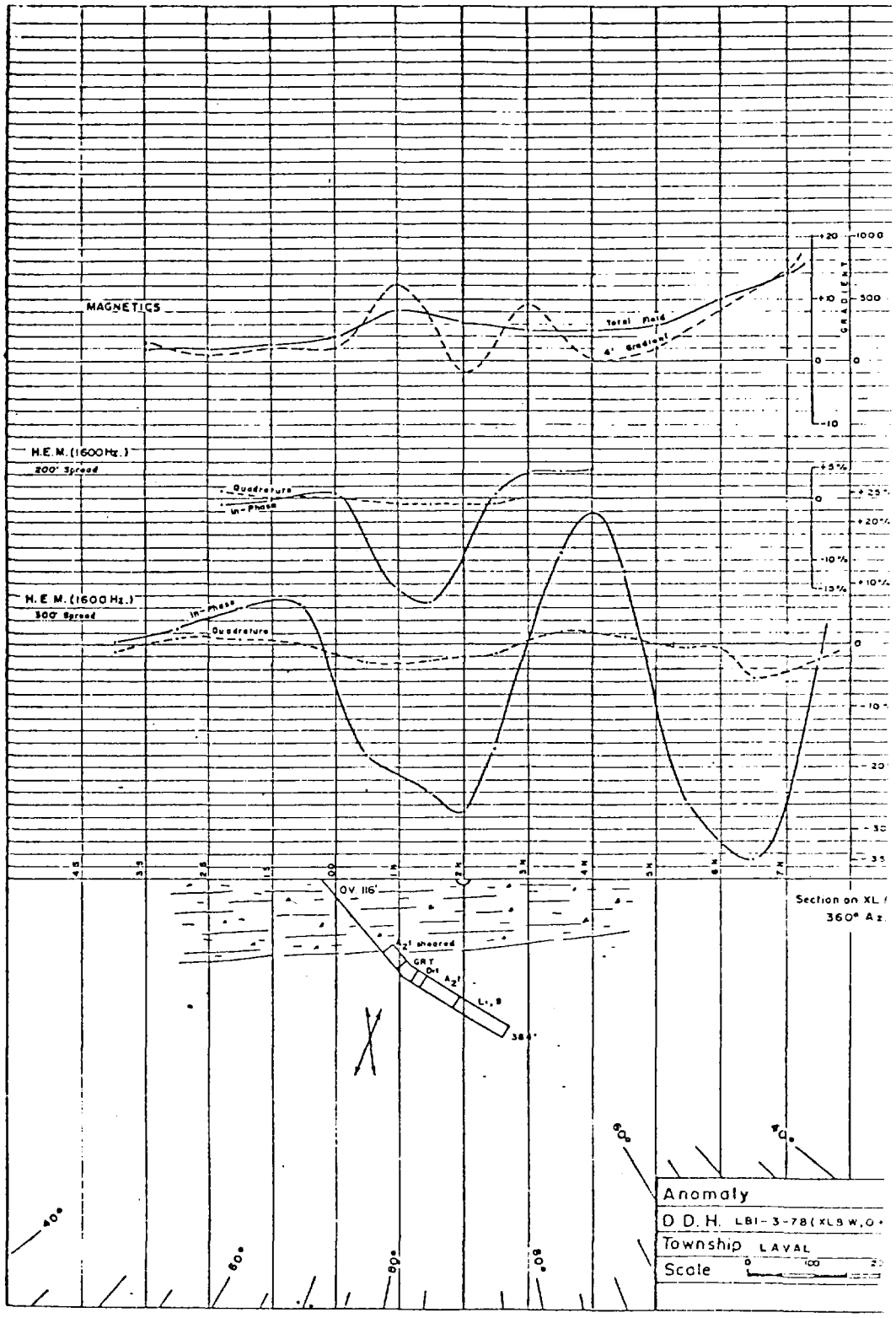
BQ Core LB1-5-78

FINISHED March 14, 1978
PURPOSE OF HOLE to test electromag c conductor

Drilled by: Bradley Bros.

FROM	TO	DESCRIPTION	CORE SAMPLES FROM	TO	RECOV.	WIDTH	ASSAY	DESCRIPTION OF SAM
		SUMMARY LOG						
0'	80'	OVERBURDEN						
80'	200.4'	META-ANDESITE						
		- 110.1' to 110.5' - Felsic Tuff ?						
200.4''	214.5'	MICACEOUS META-DACITE						
		- 208.6' to 209.1' - Rhyolite						
214.5'	225.5'	META-ANDESITE						
225.5'	231.6'	MICACEOUS DACITE to RHYODACITE TUFF						
231.6'	237.2'	META-ANDESITE						
237.2'	247'	MICACEOUS DACITE to RHYODACITE TUFF						
247'	258.5'	RHYOLITE to RHYODACITE TUFF; @ 45° to C.A.						
		- 10% to 15% po,py,cp with local massive seams						
		up to 25 mm wide						
258.5'	282.3'	META-ANDESITE TUFF						
282.3'	300'	MICACEOUS DACITE to RHYODACITE TUFF						
300'	366'	META-ANDESITE - mg to cg						
366'	375'	BLEACHED META-ANDESITE to DACITE						
		E.O.H. - 375'						

APPENDIX B



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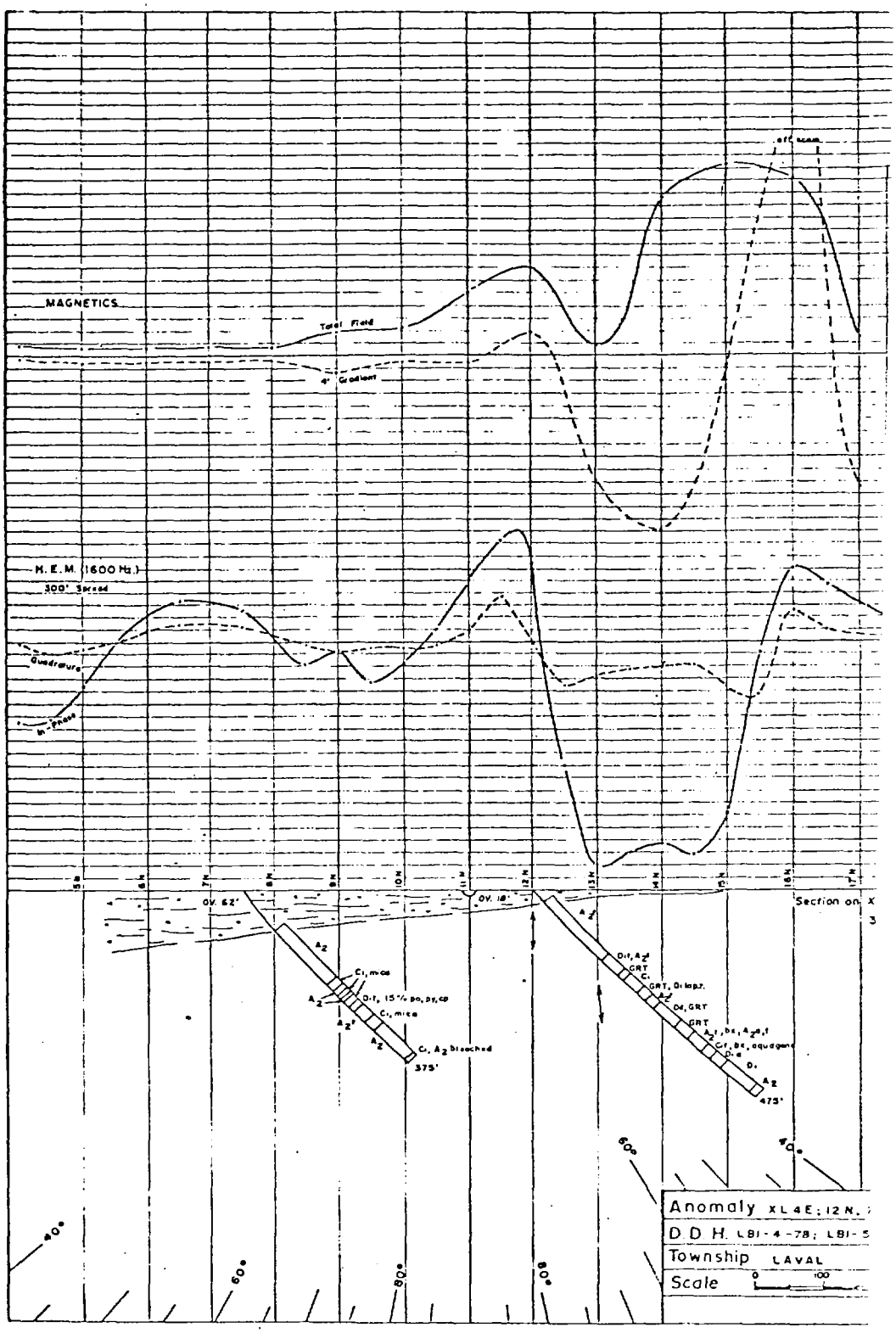

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Consulting Geologist

Ministry of Natural Resources
Ontario

52F16SW0032 2.8249 LAVAL

900

* 114/85

Instructions - Please type or print
If number of mining claims traversed exceeds space on this form, attach a list.
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): GEOLOGICAL, CONSULTANTS REPORT

Township or Area: LAVAL TWP. M-3370

Claim Holder(s): ALEXANDER GLATZ

Prospector's Licence No: H 8691

Address: 15 PARK CRESCENT, DRYDEN, ONT. P8N 1T7

Survey Company: GOODWIN MINERAL EXPLORATION, JOHN R. GOODWIN

Date of Survey (from & to) Day | Mo. | Yr. | Day | Mo. | Yr.

Total Miles of line Cut

Name and Address of Author (of Geo Technical report): JOHN R. GOODWIN, MSc. RR.1, PINE CREEK ROAD, CALLANDER, ONT. P0H 1H0

Credits Requested per Each Claim in Columns at right

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

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

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
K	706174	5
	706175	5
	706176	5
	706177	5

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

KENORA MINING DIV. RECEIVED JUN 17 1985 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

RECEIVED JUL 02 1985 MINING LANDS SECTION

KENORA MINING DIV. RECEIVED MAY 29 1985 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM Sat Rec'd

706174

Total number of mining claims covered by this report of work: 4

Expenditures (excludes power stripping)

Type of Work Performed: CONSULTANTS REPORT

Performed on Claim(s): 706174, 706175, 706176, 706177

Calculation of Expenditure Days Credits

Total Expenditures: $ 300 ÷ 15 = Total Days Credits: 20

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.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
20	June 11/85	
	Date Approved as Recorded: 85.7.12	Branch Director

Date: MAY 25/85

Recorded Holder or Agent (Signature): Alexander Glatz

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: N/A RR #1 PINE CREEK RD., CALLANDER, ONT P0H 1H0

Date Certified: June 11/85

Certified by (Signature): John R. Goodwin

1362 (81/9)

Mining Lands Section

File No 2.8249

Control Sheet

TYPE OF SURVEY

____ GEOPHYSICAL

____ GEOLOGICAL

____ GEOCHEMICAL

__✓__ EXPENDITURE

MINING LANDS COMMENTS:

No duplicate ✓

- consultants report

<LAVAL>

L.D.

Signature of Assessor

Date

NOTES

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

SAND and GRAVEL

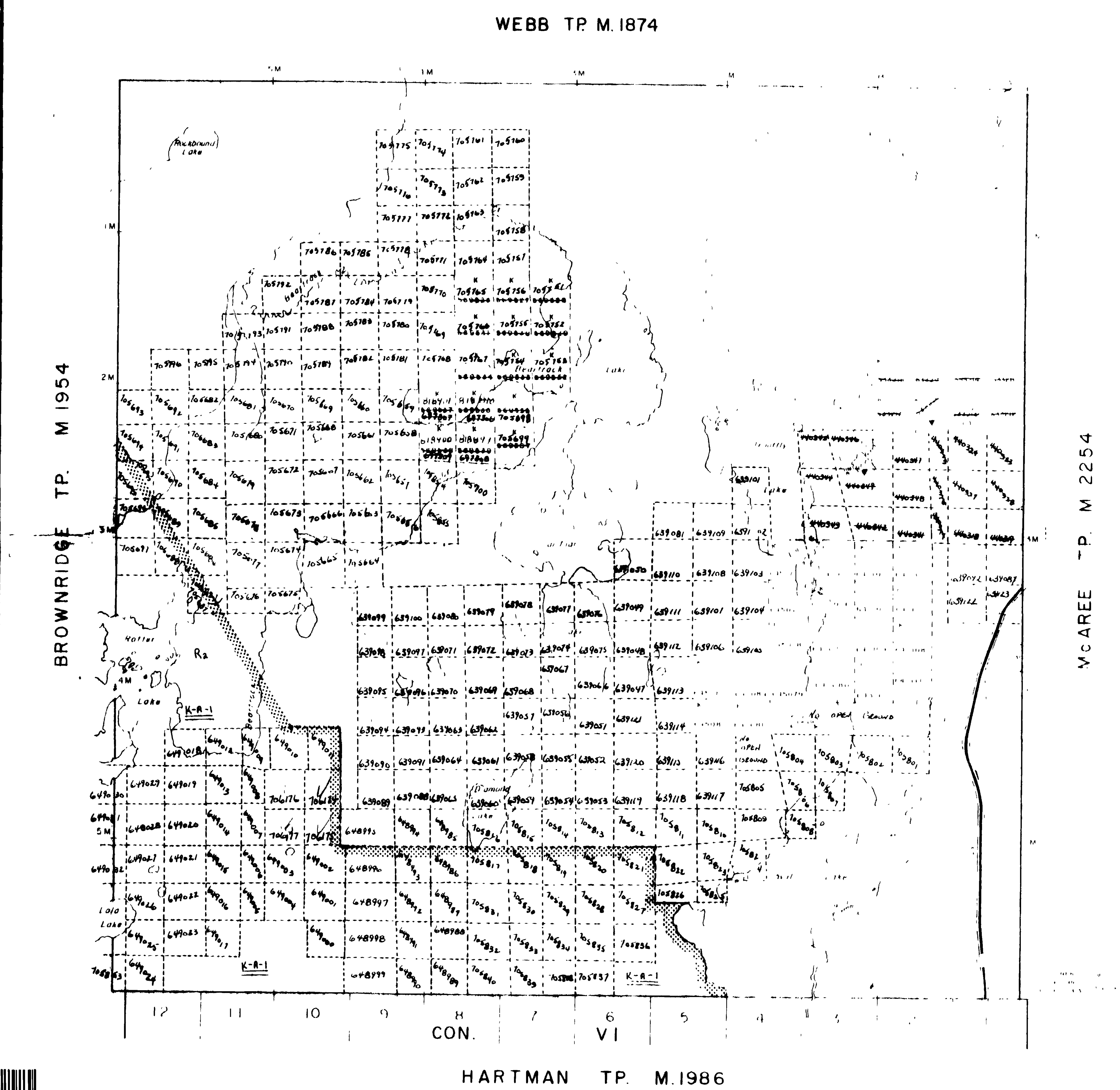
(1) GRAVEL File 186744
(2) GRAVEL File 44049
(3) MTC PIT Nº1112

AREAS WITHDRAWN FROM STAKING

S.R. - SURFACE RIGHTS   M.R. - MINING RIGHTS

Section	Date	Disposition	File
(R1) Res. for Public use			

R2 ODM W 37/83 S+MR AUG 23/83



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TOWNSHIP

LAVAL

DISTRICT
KENORA

MINING DIVISION
KENORA

Ministry of Natural Resources

M.3370