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MEAP KL-142

GOLDMAC EXPLORATIONS INC.
DETAIL AREA - MAGNETIC & VLF SURVEYS
BEN NEVIS TOWNSHIP ONTARIO

OCTOBER 27, 1980

HARPER CONSULTING SERVICES INC.

GOLDMAC EXPLORATIONS INC.
DETAIL AREA - MAGNETIC & VLF SURVEYS
BEN NEVIS TOWNSHIP ONTARIO

INTRODUCTION

This report covers detailed magnetic and VLF electro-magnetic surveys on parts of the Goldmac claim group in Ben Nevis Township. A report to the company by the writer dated July 20th, 1980 covering the general magnetic and electro-magnetic surveys of the property gives all pertinent data such as property and location, access and facilities, history and development, etc. This need not be repeated here as this report should be read in conjunction with the earlier report. The field work was done by John Lill, P.Eng. and John Essery, Geophysical Technician, of Toronto and Rouyn respectively. Local labour provided line cutting services.

SURVEY RESULTS AND INTERPRETATION

The detail surveys were done as a part of a larger program of detail prospecting and mapping in the vicinity of an attractive silver-gold prospect. In the Detail Area lines have

been cut at 100 foot intervals. Magnetic and electro-magnetic readings were taken on lines 200 feet apart with readings every 50 feet.

MAGNETIC SURVEY

The magnetic survey was done using a McPhar M500A fluxgate magnetometer.

The magnet survey shows almost nothing of interest. The absolute maximum variation in magnetic intensity is 800 gammas but for practical purposes all magnetic variation lies within a range of 200 gammas.

The extreme magnetic low occurs near the north end of line 2W and is unexplained. Possibly there is a magnetically strong diabase dike nearby and the low reflects a di-pole effect.

The extreme magnetic high located at 7N on line 2E is caused by a nearby diabase dike.

There is no explanation for the medium intensity reading at the south end of line 20E.

ELECTRO-MAGNETIC SURVEY

The electro-magnetic survey was done with a Geonics EM 16, VLF unit.

No strong conductors were located and it is quite safe to say that there are no persistent and continuous E-W trending

bands of sulfide minerals or graphitic shear zones.

The rocks of the area are well sulphidized and generally of rhyolitic composition. Thus the sulphides are generally isolated grains in a non-conductive medium.

Electro magnetic variations obtained are not interpreted with great confidence and the correlations from line to line are uncertain. None of the VLF conductors can be classed as a drill target unless supporting evidence can be gained.

The silver-gold-lead occurrence did not respond electro-magnetically.

CONCLUSIONS AND RECOMMENDATIONS

1. The magnetic survey indicates that there are no large rock masses containing significant concentrations of either magnetite or pyrrhotite. Any diabase dikes traversing the claim are probably small and narrow. The underlying rocks are probably all of very similar chemical compositions.
2. The VLF conductors are indistinct and are either topographic features, bedrock features, or water courses

carrying weak electrolytes. There is a general area of variable electro-magnetic conductivity in the north part of the Detail Area.

This report is respectfully submitted.

Willowdale, Ontario
October 27, 1980.

HARPER CONSULTING SERVICES INC.

H. G. Harper
H.G. Harper, P.Eng.
President.



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HARPER Consulting Services INC.

KL-17a 900

H. Grant Harper P. Eng., President
Consulting Engineer & Geologist

314 Hendon Avenue
Willowdale, Ontario M2M 1B2
(416) 225-7412

July 9, 1980.

Officers and Directors,
Goldmac Explorations Inc.,
Suite 806,
88 University Ave.,
Toronto.

Gentlemen,

Herewith is a brief Progress Report on the exploration program on your Ben Nevis Township gold-silver prospect.

All lines, including detail lines, have been cut and surveyed magnetically and electromagnetically. The surveys are now being plotted and interpreted.

Radiometric surveying, geological mapping, and prospecting have been started. The geological mapping has suggested a new concept for diamond drilling in the area of known gold-silver mineralization. The prospecting, which has covered only the area of known mineralization and surroundings, has extended the zone along strike to the northeast. The following assay results are from grab samples collected by the prospector, John Essery.

<u>Sample No.</u>	<u>Ozs. Au</u>	<u>Ozs. Ag</u>	<u>%Pb</u>	<u>% Zn</u>
XX	0.02	3.88	1.18	0.11
xxx	NIL	NIL	0.01	0.02
2601	0.02	21.9	2.99	0.47
2602	0.01	0.52	0.05	0.03
2603	NIL	1.51	0.80	0.82

The above results are most encouraging for sample 2601 extends the length of the known mineralized zone. Spectrographic analyses of the above samples returned low values in cobalt, cadmium, vanadium and gallium. None of these metals were present in economic ally significant amounts but their presence indicates that we must continue to check all samples for cobalt and cadmium.

Yours truly,

SAMPLE	AU OZ/TON	ZN %	AG OZ/TON	PR %	
XX	0.02	0.11	3.88	1.18	Vanadium
XXX	NIL	0.02	NIL	0.01	
2601	0.02	0.47	21.9	2.99	Gallium Arsenic
2602	0.01	0.03	0.52	0.05	Gallium
2603	NIL	0.82	1.51	0.80	Cobalt

Ben Nevis Twp.
 Surface Crags May 1/80

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: GOLDMAC EXPLORATION INC.,
SUITE 806, 89 UNIVERSITY AVE.,
TORONTO, ONTARIO.
M5J 1T6

REPORT 7470

REF. FILE 3631-P4

5 ROCKS REF: H.G. HARPER SUBMITTED ON 9-JUN-80

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	OZ/TON	FA	0.010
ZN	%	XRF	0.010
AG	OZ/TON	FA	0.200
PB	%	XRF	0.010
30	ELEMENT	FMS	

DATE 25-JUN-80

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY *J.H. Opdebeeck*

J.H. OPDEBEECK

X-RAY ASSAY LABORATORIES LIMITED

1995 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-986947

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ELEMENT SENS*	2501		2602		ELEMENT SENS*	2601		2602	
ANTIMONY (4)	T	ND	ND	ND	MANGANESE (1)	T	ND	ND	ND
ARSENIC (4)	ND	ND	ND	ND	MERCURY (4)	ND	ND	ND	ND
BERYLLIUM (2)	ND	ND	ND	ND	MOLYBDENUM (3)	ND	ND	ND	ND
BISMUTH (2)	ND	ND	ND	ND	NICKEL (1)	ND	ND	ND	ND
CADMIUM (4)	ND	ND	ND	ND	SILVER (1)	T	FT	FT	FT
CERIUM (5)	ND	ND	ND	ND	TANTALUM (5)	ND	ND	ND	ND
NIOBIUM (4)	ND	ND	ND	ND	THORIUM (3)	ND	ND	ND	ND
CHROMIUM (4)	ND	T	T	T	TIN (2)	ND	FT	FT	FT
COBALT (3)	ND	ND	ND	ND	TITANIUM (2)	T	TL	TL	TL
COPPER (1)	T	T	T	T	TUNGSTEN (4)	ND	ND	ND	ND
GALLIUM (2)	FT	FT	FT	FT	URANIUM (3)	ND	ND	ND	ND
GERMANIUM (1)	ND	ND	ND	ND	VANADIUM (2)	ND	ND	ND	ND
IRON (2)	M	M	M	M	YTRIUM (3)	FT	FT	FT	FT
LEAD (2)	LM	TL	TL	TL	ZINC (4)	TL	T	T	T
LITHIUM (4)	ND	ND	ND	ND	ZIRCONIUM (4)	ND	T	T	T

LEGEND

KEY TO SYMBOLS

H - 10% PLUS
MH - 5-15%
M - 1-10%
LM - 0.5-5%
L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% OR LESS
ND - NOT DETECTED

*SENSITIVITY
(LIMIT OF DETECTION)
1 - 0.0005-0.001%
2 - 0.001-0.005%
3 - 0.005-0.01%
4 - 0.01-0.05%
5 - 0.05-0.1%

NOTE: BETTER SENSITIVITIES CAN BE OBTAINED WITH SPECIAL TECHNIQUES, IF AND WHEN REQUIRED.

X-RAY ASSAY LABORATORIES LIMITED

1965 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-986947

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5 ROCKS REF: H.G. HARPER SUBMITTED ON 9-JUN-80

ELEMENT SENS*	2603	ELEMENT SENS*	2603
ANTIMONY (4)	ND	MANGANESE (1)	T
ARSENIC (4)	ND	MERCURY (4)	T
BERYLLIUM (2)	ND	MOLYBDENUM (3)	FT
BISMUTH (2)	ND	NICKEL (1)	ND
CADMIUM (4)	ND	SILVER (1)	T
CERIUM (5)	ND	TANTALUM (5)	ND
NI OBIUM (4)	ND	THORIUM (3)	ND
CHROMIUM (4)	ND	TIN (2)	ND
CORALT (3)	FT	TITANIUM (2)	TL
COPPER (1)	T	TUNGSTEN (4)	ND
GALLIUM (2)	ND	URANIUM (3)	ND
GERMANIUM (1)	ND	VANADIUM (2)	FT
IRON (2)	M	YTTRIUM (3)	ND
LEAD (2)	L	ZINC (4)	M
LITHIUM (4)	ND	ZIRCONIUM (4)	T

LEGEND

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MH - 5-15%
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M5J 1T6

5 ROCKS REF: H.G. HARPER SUBMITTED ON 9-JUN-80

ELEMENT SENS*			ELEMENT SENS*		
	XX	XXX		XX	XXX
ANTIMONY (4)	ND	ND	MANGANESE (1)	T	T
ARSENIC (4)	ND	ND	MERCURY (4)	ND	T
BERYLLIUM (2)	ND	ND	MOLYBDENUM (3)	ND	ND
BISMUTH (2)	ND	ND	NICKEL (1)	ND	ND
CADMIUM (4)	ND	ND	SILVER (1)	T	ND
CERIUM (5)	ND	ND	TANTALUM (5)	ND	ND
COBALT (3)	ND	T	THORIUM (3)	FT	ND
CHROMIUM (4)	ND	T	TIN (2)	ND	ND
COBALT (3)	ND	ND	TITANIUM (2)	TL	TL
COPPER (1)	T	FT	TUNGSTEN (4)	ND	ND
GALLIUM (2)	ND	ND	URANIUM (3)	ND	FT
GERMANIUM (1)	ND	ND	VANADIUM (2)	FT	ND
IRON (2)	M	M	YTTRIUM (3)	ND	ND
LEAD (2)	LM	T	ZINC (4)	LM	FT
LITHIUM (4)	ND	ND	ZIRCONIUM (4)	T	T

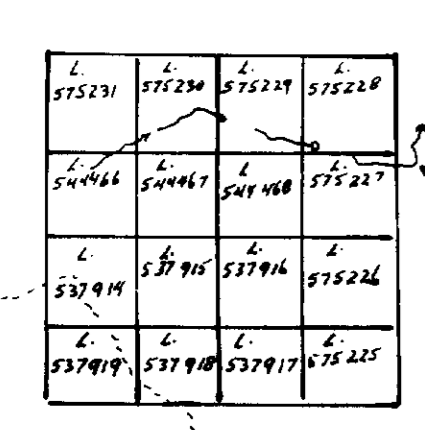
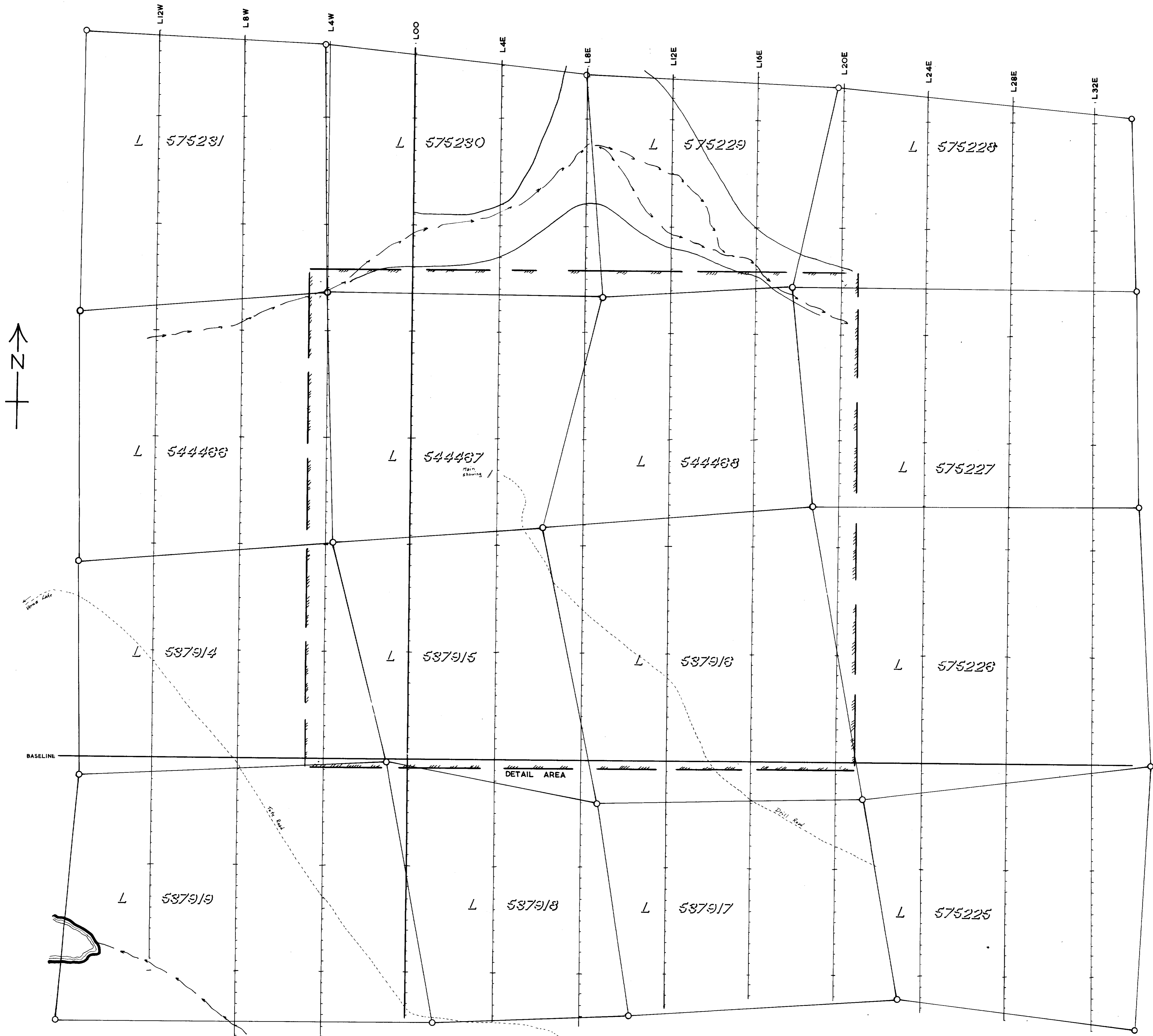
LEGEND

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MH - 5-15%
M - 1-10%
LM - 0.5-5%
L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% OR LESS
ND - NOT DETECTED

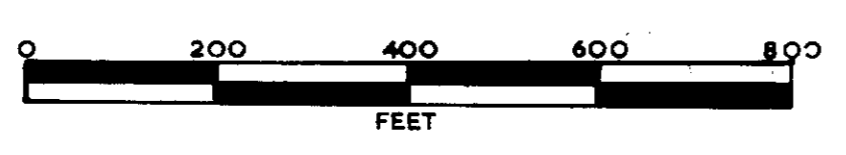
*SENSITIVITY
(LIMIT OF DETECTION)
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4 - 0.01-0.05%
5 - 0.05-0.1%

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LOCATION MAP
1 INCH = 2640 FEET

BEN NEVIS TWP.
PONTIAC TWP.



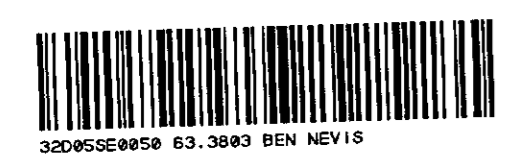
GOLDMAC EXPLORATIONS INC.

BEN NEVIS TWP.



OCT 27 1986

H.C. Harper





- over 2900 GAMMAS
- 2700 TO 2900 GAMMAS
- under 2700 GAMMAS

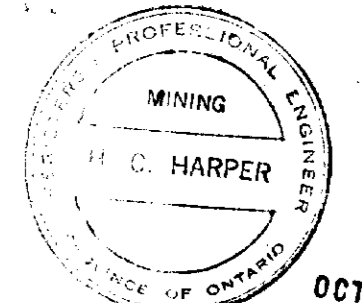
GOLDMAC EXPLORATIONS INC.

DETAIL AREA

BEN NEVIS TOWNSHIP

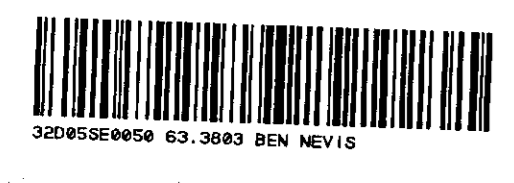
Magnetometer Survey

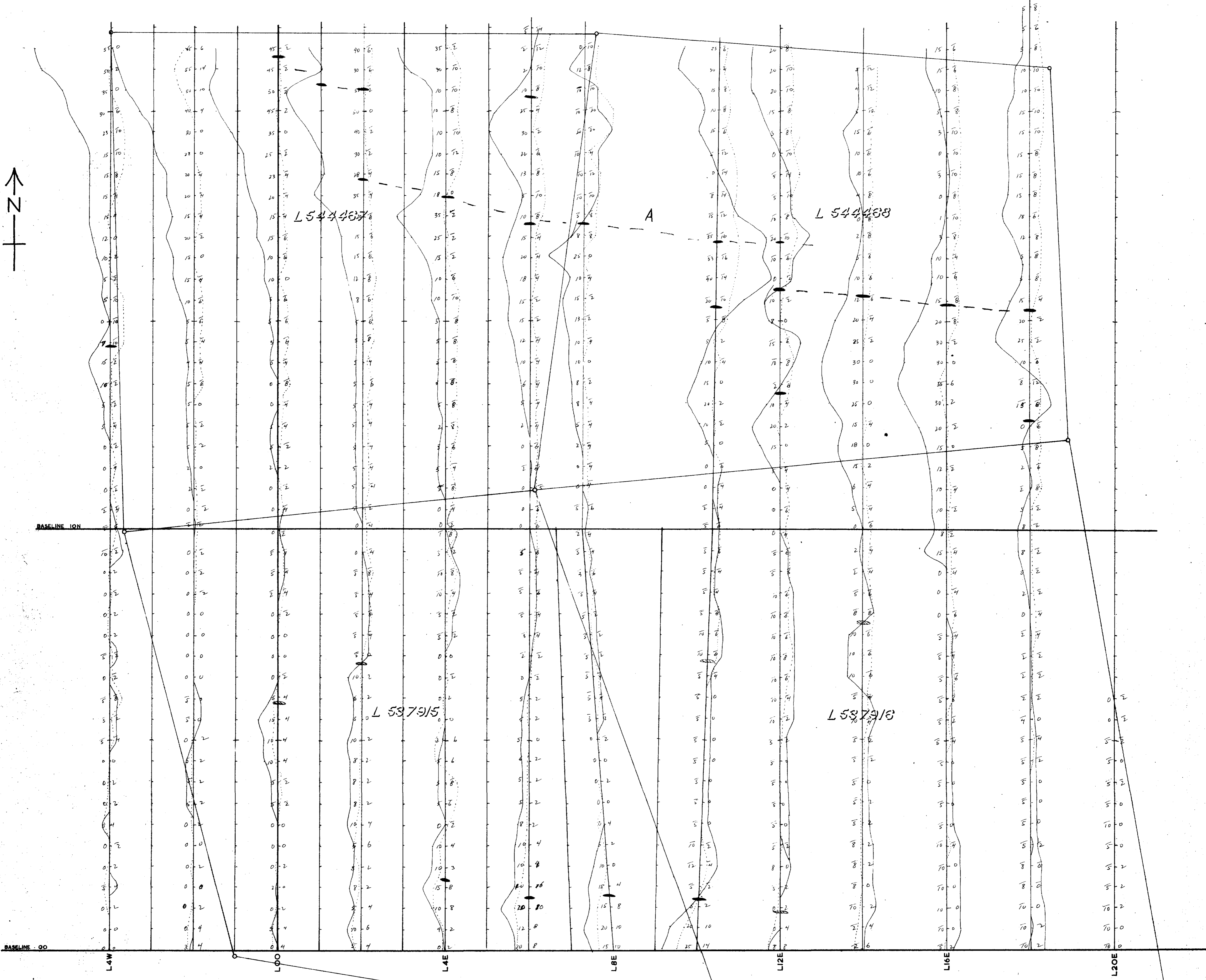
McPhar M500A



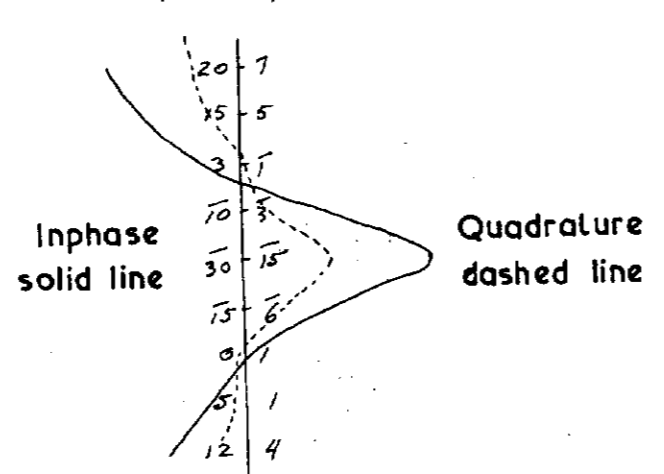
OCT 27 1980

H.G. Harper





RONKA EM16



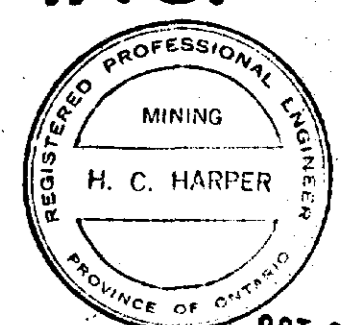
— VLF CONDUCTOR

GOLDMAC EXPLORATIONS INC.

DETAIL AREA

BEN NEVIS TOWNSHIP

Electromagnetic Survey

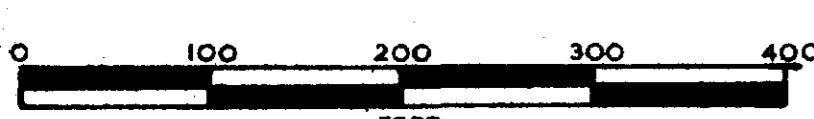


OCT 27 1962

H. C. Harper



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Profile Scale: 1"=30%

Transmitting Station: CUTLER, MAINE