



32E13NE0057 2.5962 HOPPER LAKE

010

Westmin Resources Limited

Electromagnetic and Magnetic Surveys

Detour-Lower Detour Lake Claims

Lower Detour Lake Area, M2603 and Hopper Lake Area, M2601

Porcupine Mining District

N.T.S. 32E-13

Latitude 49°56' - 49°59'

Longitude 79°39' - 79°47'30"

by

C. J. Rockingham, B.Sc., M.Sc.

Project Geologist

September 28, 1983.

2.3164.

RECEIVED

SEP 31 1983

MINING LANDS SECTION

Table 1

Detour-Lower Detour Lake Claims

Owner: Westmin Resources Limited

Location: Lower Detour Lake Area (M2603)
 Hopper Lake Area (M2601)
 Porcupine Mining District, Ontario
 Latitude 49°56' - 49°59' N
 Longitude 79°39' - 79°47'30" W

Property: 272 Mining Claims (4,352 hectares)

<u>Claims</u>	<u>Date Recorded</u>	<u>Anniversary Date</u>	<u>Lease Date</u>
P.549918-549931 incl. (14)	January 4,1980	January 4,1985	Jan. 4,1986
P.553303-553435 incl. (133)	January 4,1980	January 4,1985	Jan. 4,1986
P.553436 (1)	January 4,1980	January 4,1984	Jan. 4,1986
P.553437-553456 incl. (20)	January 4,1980	January 4,1985	Jan. 4,1986
P.553457 (1)	January 4,1980	January 4,1984	Jan. 4,1986
P.553458-553483 incl. (26)	January 4,1980	January 4,1985	Jan. 4,1986
P.553503-553518 incl. (16)	January 4,1980	January 4,1985	Jan. 4,1986
P.553520-553562 incl. (43)	January 4,1980	January 4,1985	Jan. 4,1986
P.575672 ✓ (1)	October 10,1980	October 10,1985	Oct.10,1986
P.575673 ✓ (1)	October 10,1980	October 10,1984	Oct.10,1986
P.577751-577763 incl. (13)	July 10,1980	July 10,1985	July 10,1986
P.577765-577767 incl. (3)	July 10,1980	July 10,1985	July 10,1986

Introduction:

The following report pertains to ground magnetic data collected by Westmin Resources Limited on the Detour-Lower Detour Lake claims, Lower Detour Lake Area (M2603) and Hopper Lake Area (M2601) in the Porcupine Mining District. A picket line grid was cut in selected areas of the property in January-February 1982 and over the remainder of the property in January-March 1983. The electromagnetic and magnetometer surveys were carried out within one to two weeks after the lines were cut.

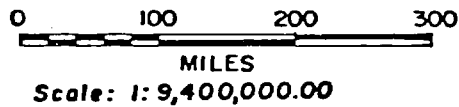
Property, Location and Access:

The Detour-Lower Detour Lake property of Westmin Resources consists of 277 contiguous mining claims which constitute approximately 4,368 hectares. The property is located 130 km NNE of Cochrane, Ontario and 5 km south of the Detour Lake gold mine. Access is available all year by fixed wing aircraft or by all terrain vehicles from the mine site along the winter road.



WESTMIN RESOURCES LIMITED

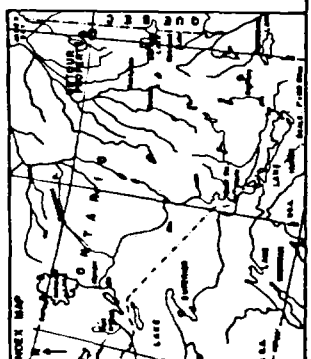
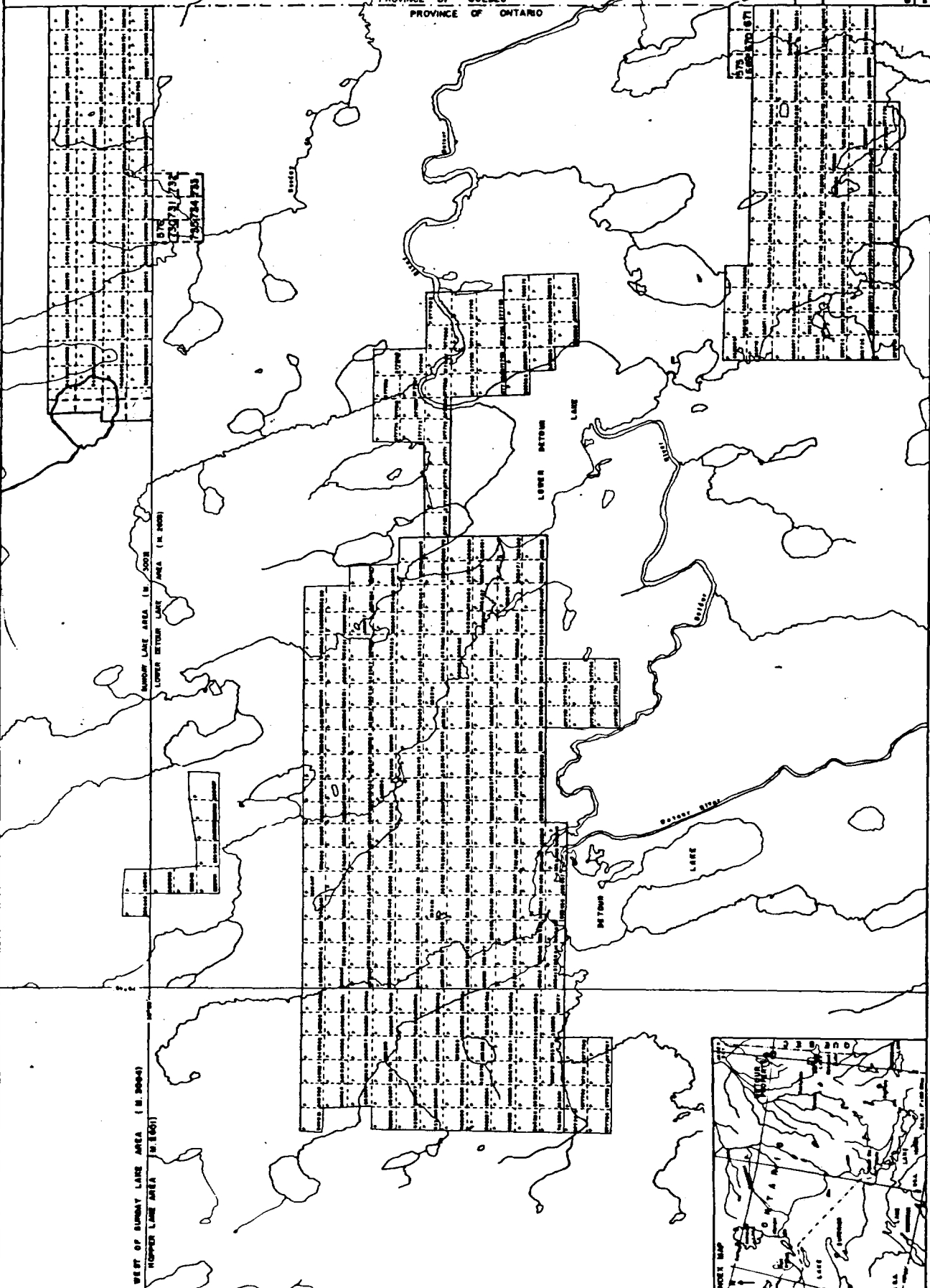
LOCATION MAP
DETOUR PROJECT





PROVINCE OF QUEBEC
PROVINCE OF ONTARIO

DETOUR PROPERTY
CLAIM MAP
ONTARIO
M.L.C.
DATE JANUARY, 1988



Grid Details, Instrument and Survey Specifications:

In order to facilitate geological mapping and geophysical surveys a picket line grid was established with lines spaced every 100 m along an east-west baseline, and pickets every 25 m along the north-south cross lines. A tie line on the northern boundary was established to determine the deviation of the picket lines.

An EDA PPM 300 total field magnetometer was used in conjunction with an EDA PPM 400 base station magnetometer in order to collect the field data and remove the effect of diurnal variation as well as monitor for magnetic storm activity. Accuracy of the survey data is ± 5 nT.

The electromagnetic survey used a horizontal loop manufactured by Apex Parametrics, (Max-Min II). The coil separation was 150 m with readings taken every 25 m using two frequencies, 222 Hz and 3555 Hz, although for clarity only one frequency is presented in Appendix C (parts 1, 2 and 3). Appendix D (parts 1, 2 and 3) presents the interpretation by J. Betz as to the location, depth, and conductivity of the bedrock conductors as well as a qualitative assessment of any magnetic correlations. The total mileage covered on the magnetometer and electromagnetic surveys was approximately 444 km with approximately 17,760 stations.

Results and Interpretation:

The magnetic data is displayed on the enclosed maps. Appendix A (parts 1 and 2) displays the corrected total magnetic field and Appendix B (parts 1, 2, and 3) displays the contoured magnetic data for the same area. The magnetic contour map displays the same trends as the G.S.C. aeromagnetic map for this area although much more detail is apparent. On the northern portion of the survey area the magnetic contour map is dominated by three relatively thin but laterally continuous east-west magnetic highs that probably represent magnetite rich mafic to ultramafic sills or flows within a package of less magnetic mafic flows and sedimentary rocks. The southern portion of the map area displays more elliptical type magnetic features that have a broad curvature around the north end of Detour Lake. This pattern reflects the dominantly mafic volcanic package of rocks that outcrop in this area. Detour Lake itself has a featureless low magnetic relief that reflects the intrusive rocks shown on Glen Johns' O.G.S. map. Magnetic correlations with specific EM conductors are displayed in a qualitative sense on Max-Min II conductor map (Appendix D, parts 1, 2, and 3). Also displayed on the conductor map are the location, depth to bedrock, conductivity and dips of all bedrock conductors detected by the Max-Min II.

Qualifications of the Author

Education:

B.Sc., 1972 University of Toronto (Biology and Chemistry)

M.Sc., 1979 University of Western Ontario (Geology)

Memberships:

Fellow Geological Association of Canada

Member Canadian Institute of Mining and Metallurgy

Associate Member Society of Economic Geologists

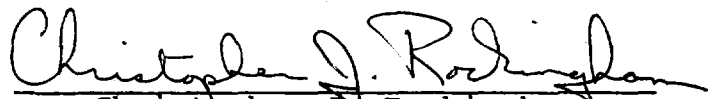
Occupation:

Project Geologist - Westmin Resources Limited

Certification

I, Christopher J. Rockingham, of 261 Booth Avenue,
Toronto, Ontario, certify the following facts:

- 1) I am a Fellow of the Geological Association
of Canada.
- 2) I hold a B.Sc., in Chemistry and Biology
obtained from the University of Toronto in
1972 and a M.Sc., in geology obtained from
the University of Western Ontario in 1979.
- 3) I have practised my profession for 9 years
working in Canada, Australia and Southern
Africa.
- 4) I have supervised the work and interpreted
the results mentioned in the foregoing
report.


Christopher J. Rockingham

September 28, 1983.

Detour-Lower Detour Claim Group

- Expenditure Breakdown -

1) Magnetometer Survey 1982 and 1983

	<u>1982</u>	<u>1983</u>
Salaries	\$ 5,373.00	\$12,963.00
Rental Magnetometer	\$ 5,310.00	\$ 5,320.00
Travel & Transportation	\$ 4,823.66	\$ 5,875.11
Food & Accommodation	\$ 1,215.00	\$ 2,376.00
	<u>\$16,721.66</u>	<u>\$26,534.11</u>

Total: \$43,255.77

2) E.M. (Max-Min) (as per attached invoices)

February 1982	\$29,160.21
Apr. May, June, 1983	<u>\$51,823.35</u>
	\$80,983.56



Westmin Resources Limited
 Toronto, Ontario

CONTROL NO. **0070**

TO THE BANK OF MONTREAL
 MAIN BRANCH
 VANCOUVER, B.C.

~~WESTMIN~~ **\$27,732 and 103 cts.**

DATE **March 2, 1982**

AMOUNT \$ **27,732.03**
 Westmin Resources Limited

PAY
 TO THE
 ORDER OF

PHANTOM EXPLORATION
R.R. #14, Alice Ave.
THUNDER BAY, Ontario

[Signature]
 NOT NEGOTIABLE

0070

EMITTANCE VOUCHER - DETACH BEFORE DEPOSITING CHEQUE

EXPLANATION	BALANCE
Invoice No. 012 dated Feb. 11, 1982	\$27,240.01
" 013 " Feb. 12, 1982	900.00
" 001 " Feb. 10, 1982 (copy attached)	(407.98)
	<u>\$27,732.03</u>
	CB 150



Westmin Resources Limited
 Toronto, Ontario

Max-Min

PHANTOM EXPLORATION

R.R. #14, ALICE AVE., THUNDER BAY, ONT.
 RES: 807-623-8916 BUS: 807-767-4671

DETOUR PROJECT

WESTMIN RESOURCES LTD
 SUITE 1414
 390 BAY ST.
 TORONTO, ONT.

DATE OF INVOICE FEB 11/82

INVOICE NO. 012

SURVEY	DESCRIPTION	RATE	AMOUNT
	DETOUR GRID.		
	✓ 62.5 km	\$75/km	\$4,687.50 ✓
	CHARGE TO PRECIOUS METALS	\$150/km.	\$10,020.00 ✓
		\$150/day	\$300.00 ✓
CHAINING MAX-MIN		\$75/km.	\$1,741.88 ✓
MAX-MIN CHAINING		\$150/km	\$3,483.75 ✓
CHAINING MAX-MIN		\$75/km	\$2,315.63 ✓
CHAINING MAX-MIN		\$150/km	\$4,301.25 ✓
CHAINING MAX-MIN LINE CUTTING			\$100.00
			\$290.00
	TORONTO TRIP REFERENCE TO JACK BETZ.		
	TOTAL		27,240.01 ✓



Westmin Resources Limited
Toronto, Ontario

CONTROL NO. **0060**

TO THE BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C.

WESTERN
MINES LTD. \$1,920 and 20cts

DATE **February 26, 1982**

AMOUNT \$ **1,920.20**
Westmin Resources Limited

PAY
TO THE
ORDER OF

JOHN BETZ LIMITED
7 Boxbury Road
KTOBICOKE, Ontario
M9C 2W1

R. G. McMillan

NOT NEGOTIABLE

REMITTANCE VOUCHER - DETACH BEFORE DEPOSITING CHEQUE

0060

EXPLANATION

BALANCE

Invoice No. #330 dated February 19, 1982

\$1,920.20

Max-Min



Westmin Resources Limited
Toronto, Ontario



Westmin Resources Limited

Toronto, Ontario

CONTROL NO. 0907

TO THE BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C.

WESTMIN
RESOURCES LTD. \$3,520 and 00cts

DATE June 15, 1983

AMOUNT \$ 3,520.00
Westmin Resources Limited

PAY
TO THE
ORDER OF

JOHN BETZ LIMITED
7 Roxbury Road
ETOBICOKE, Ontario
M9C 2W1

RH [Signature]
NOT NEGOTIABLE

REMITTANCE VOUCHER - DETACH BEFORE DEPOSITING CHEQUE

0907

EXPLANATION	BALANCE
Invoice No. 367 dated May 31, 1983 " " 368 " May 31, 1983	\$3,300.00 <u>220.00</u> <u>\$3,520.00</u>
	CB 185



Westmin Resources Limited
Toronto, Ontario

may, 83 DETOUR PROJECT

7½ days at \$440/day

\$3300.00 ✓

PRECIOUS METALS

DETOUR 201 3,300.00

P146

R

3,300.00

max-min



Westmin Resources Limited
Toronto, Ontario

CONTROL NO. 0643

TO THE BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C.

WESTMIN RESOURCES LTD. \$220 and 00 Cts

DATE January 17, 1983

AMOUNT \$ 220.00
Westmin Resources Limited

PAY TO THE ORDER OF

JOHN BETZ LIMITED
7 Boxbury Road
ETOBICOKE, Ontario
M9C 2W1

R.H. Munnell

NOT NEGOTIABLE

0643

REMITTANCE VOUCHER - DETACH BEFORE DEPOSITING CHEQUE

EXPLANATION

BALANCE

Invoice No. 353 dated December 20, 1982

\$220.00

C 13173



Westmin Resources Limited
Toronto, Ontario

DETOUR 201

220.00

P134 CR 1/2

220.00

max-min



Westmin Resources Limited

Toronto, Ontario

CONTROL NO. **0824**

PAID

TO THE BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C.

WESTMIN RESOURCES LTD. \$48,571 and 25/100

DATE **APRIL 15, 1983**

PAY TO THE ORDER OF

PHANTOM EXPLORATION
Comp #16, Site #7, R.R. #4
FREDERICTON, N. B.
E3B 4X5

AMOUNT \$ **48,571.25**
Westmin Resources Limited

Raymond D. Campbell

NOT NEGOTIABLE

0824

MITTANCE VOUCHER - DETACH BEFORE DEPOSITING CHEQUE

EXPLANATION	BALANCE
Invoice No. 020 dated Apr. 6, 1983	\$ 1,670.50
" 022 " Apr. 6, 1983	4,429.75
" 023 " Apr. 6, 1983	<u>42,471.00</u>
	<u>\$48,571.25</u>
	<i>CB181</i>

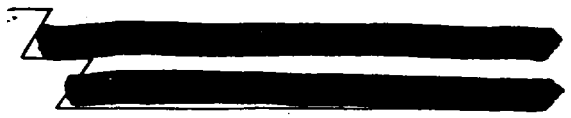


Westmin Resources Limited
Toronto, Ontario

Max-min



ION EXPLORATION



DECK BROWN
COMP #16 SITE #7 RR #4
FREDERICTON, N.B.
E 3B 4 X 5

WESTMIN RESOURCES LTD.
SUITE 1414
390 BAY ST
TORONTO, ONT.

DATE OF INVOICE APRIL 6/83

INVOICE NO. 023

SURVEY	DESCRIPTION		RATE	AMOUNT
MAX-MIN	WESTMIN DETOUR PROJECT MAIN GRID.			
	TOTAL			
	PRECIOUS METALS			
	DETOUR 201	42,471.00	343.3 346.45 \$130.00	44627.00 44200.80 44258.50
		510	326.70	\$42,471.00
P142	CR	42,471.00 ✓		

max-min



Westmin Resources Limited
Toronto, Ontario

CONTROL NO. 0854

TO THE BANK OF MONTREAL
MAIN BRANCH
VANCOUVER, B.C.

WESTMIN RESOURCES LTD. \$1,622 and 60cts

DATE May 16, 1983

AMOUNT \$ 1,622.60
Westmin Resources Limited

PAY TO THE ORDER OF

JOHN BETZ LIMITED
7 Boxbury Road
ETOBICOKE, Ontario
M9C 2W1

K.P. Smith

NOT NEGOTIABLE

EMITTANCE VOUCHER - DETACH BEFORE DEPOSITING CHEQUE

0854

PLANATION	BALANCE
Invoice No. 365 dated April 1, 1983	<u>\$1,622.60</u> CB183



Westmin Resources Limited
Toronto, Ontario

	Claim tags	12.00 ✓	
Feb 24	Shipment of equipment, Timmins to Toronto	12.00 ✓	
	Limousine service in Toronto	12.00	
	" " (Feb. 22) n.r.	9.00	302.60
	Total		<u><u>\$1622.60</u></u> ✓

PRECIOUS METALS

DETOUR 201

1,622.60

max-mine

P143 CR

R 1,622.60

COM EXPLORATION

Comp # 16 Site # 7 RR # 4
FREDERICTON, N.B.
E3B 4X5

Pg 2

WESTMIN RESOURCES LTD

DATE OF INVOICE

INVOICE NO. 022

SURVEY	DESCRIPTION		RATE	AMOUNT
MAX-MIN	DETOUR PROJECT ANGLE GRID. L 18100.0 17+25N - 3+25S 1 19400.0 18+25N - 3+75S PRECIOUS METALS	2.025 1.775 ✓ 1.825 ✓ 1.650 ✓ 1.475 ✓ 1.325 ✓ 1.125 ✓ .925 ✓	2050	
	DETOUR 201	4,429.75		
P142	CR R	4,429.75 516 ✓	34.05 34.075 ✓	130.00 #4426.50 H 4429.75 ✓

max-min



32E13NE0057 2.5962 HOPPER LAKE

900

Magnetometer Survey to be applied to the following claims:

<u>Claims</u>	<u>Days</u>	<u>Total Days</u>
P.549918-549931 (14)	20/each	= 280
P.553303-553349 (47)	20/each	= 940
P.553350 (1)	10	= 10
P.553351-553352 (2)	20/each	= 40
P.553353 (1)	10	= 10
P.553354-553483 (130)	20/each	= 2,600
P.553503-553518 (16)	20/each	= 320
P.553520-553562 (43)	20/each	= 860
P.575672-575673 (2)	20/each	= 40
P.577751-577762 (12)	20/each	= 240
P.577763 (1)	10	= 10
P.577765 (1)	15	= 15
P.577766-577767 (2)	20/each	= 40

RECORDED
OCT 31 1983
MINING LANDS

272

5,405 days

October 27, 1983



Ministry of Natural Resources

Ontario

P-549918

#249

Lower Detour Lake
Upper Lake

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of Porcupine Mining Division
Westmin Resources Limited T 778

name of Recorded Holder 390 Bay Street, Suite 1414, Toronto, Ontario M5H 2Y2
Prospector's Licence

do hereby report the performance of 5,460 days of Geophysical; Magnetometer
5,405 days of type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
.549918-549931	(14) 20/each				
.553303-553483	(181) 20/each				
.553503-553518	(16) 20/each				
.553520-553562	(43) 20/each				
.575672-575673	(2) 20/each				
.577751-577767	(17) 20/each				

RECEIVED
OCT 31 1983
MINING LANDS SECTION
272

All the work was performed on Mining Claim (s) All claims listed in List "B" (273 claims)
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment
- Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Author of the report: C.J. Rockingham
Instrument used: Magnetometer EDA ppm 300 and ppm 400
Dates of Survey: February-March 1982
February 1-April 30, 1983
Expenditure: \$43,255.00

RECORDED
SEP 19 1983
Receipt No.

Date 16 September 1983
copies in back of file

Signature of Recorded Holder or Agent

COPY

The Mining Act Certificate Verifying Report of Work

C.J. Rockingham

390 Bay St., Suite 1414, Toronto, Ontario M5H 2Y2
(Post Office Address)

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.
- That the annexed report is true.

Dated 16 September

RECEIVED
SEP 19 1983
P.M.

Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

Geological Mapping to be applied to the following claims:

<u>Claims</u>	<u>Days</u>	<u>Total Days</u>
P.549918-549931 (14)	40/each =	560
P.553303-553349 (47)	40/each =	1,880
P.553350 (1)	20 =	20
P.553351-553352 (2)	40/each =	80
P.553353 (1)	20 =	20
P.553354-553381 (28)	40/each =	1,120
P.553383-553434 (52)	40/each =	2,080
P.553435 (1)	20 =	20
P.553437 (1)	20 =	20
P.553438-553445 (8)	40/each =	320
P.553446 (1)	20 =	20
P.553447-553455 (9)	40/each =	360
P.553456 (1)	20 =	20
P.553458 (1)	20 =	20
P.553459-553472 (14)	40/each =	560
P.553473-553475 (3)	20/each =	60
P.553476-553478 (3)	40/each =	120
P.553479 (1)	20 =	20
P.553482 (1)	20 =	20
P.553483 (1)	40 =	40
P.553503-553518 (16)	40/each =	640
P.553520-553562 (43)	40/each =	1,720
P.575672 (1)	40 =	40
P.577751-577762 (12)	40/each =	480
P.577763 (1)	20 =	20
P.577765 (1)	30 =	30
P.577766-577767 (2)	40/each =	80

MINING LANDS SECTION

OCT 31 1983

RECEIVED

266

10,370 days

October 27, 1983



Ministry of Natural Resources

Ontario

P-549918 #248

Hopper Lake Area Lower Detour Lake Area

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of Porcupine Mining Division

I, Westmin Resources Limited T 778 name of Recorded Holder Prospector's Licence

390 Bay Street, Suite 1414, Toronto, Ontario M5H 2Y2 Post Office Address

do hereby report the performance of 10,370 days of Geological & Linecutting type of work

not before reported to be applied on the following contiguous claims

Table with columns: Claim No., Days, Claim No., Days, Claim No., Days. Includes entries for P.549918-549931, P.577751-577767, P.553303-553381, P.553383-553483, P.553503-553518, P.553520-553562, P.575672.

All the work was performed on Mining Claim (s) 271 claims; See attached List "A" and "D" (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment. For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate. For Compressed Air or Other Power Driven or Mechanical Equipment Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment. For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording. With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate. For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording. For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Author of the Report: C.J. Rockingham

Dates of Survey: Expenditure: Geology; June-July 1983 \$10,180.00 Linecutting; February 1982 by Ingamar Expl. Ltd. Cedar Hill, Connaught Ontario P0N 1A0 Jan., Feb., March 1983 by \$97,371.21 Jean Alix Company Ltd. 107,551.21

RECORDED ISEP 19 1983 Receipt No.

Date: 16 September 1983 Signature of Recorded Holder or Agent: C. Rockingham

RECEIVED PORCUPINE MINING DIVISION QUEBEC SEP 19 1983

The Mining Act Certificate Verifying Report of Work C. J. Rockingham 390 Bay Street, Suite 1414, Toronto, Ontario M5H 2Y2 (Post Office Address)

hereby certify: 1. 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. 2. That the annexed report is true. Dated 16 September 1983 Signature: C. Rockingham

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

E.M.Survey to be applied to the following claims:

<u>Claims</u>	<u>Days</u>		<u>Total Days</u>
P.549918-549931 (14)	20/each	=	280
P.553303-553349 (47)	20/each	=	940
P.553350 (1)	10	=	10
P.553351-553352 (2)	20/each	=	40
P.553353 (1)	10	=	10
P.553354-553435 (82)	20/each	=	1,640
P.553437-553456 (20)	20/each	=	400
P.553459-553483 (25)	20/each	=	500
P.553503-553518 (16)	20/each	=	320
P.553520-553562 (43)	20/each	=	860
P.575672-575673 (2)	20/each	=	40
P.577751-577762 (12)	20/each	=	240
P.577763 (1)	10	=	10
P.577765 (1)	15	=	15
P.577766-577767 (2)	20/each	=	40

269

5,345 days

October 27,1983

RECEIVED
OCT 31 1983
MINING LANDS SECTION



Ministry of Natural Resources

Ontario

P-549918 # 250.

Lower Nelson Lake Hopper Lake id.

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK Porcupine

To the Recorder of Mining Division

I, Westmin Resources Limited T 778

name of Recorded Holder Prospector's Licence

390 Bay St., Suite 1414, Toronto, Ontario M5H 2Y2

Post Office Address

do hereby report the performance of 5,480 days of Geophysical; (E-M)

not before reported to be applied on the following contiguous claims 5,345 type of work

Table with columns: Claim No., Days, Claim No., Days, Claim No., Days. Includes entries for P.549918-549931, P.553303-553435, etc.

All the work was performed on Mining Claim (s) 270 claims; See attached List "C" (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment. For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate. For Compressed Air or Other Power Driven or Mechanical Equipment Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment. For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording. With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate. For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording. For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

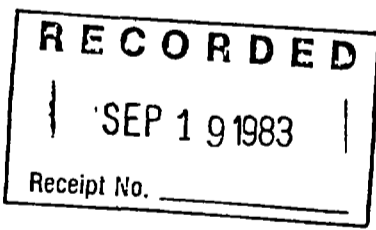
Author of the Report: C.J. Rockingham

Dates of Survey: February 1982 April, May, June 1983

Instrument used: Max-Min II. (222 Hz)

Expenditure: \$29,160.21 (1982) Total: \$80,983.56 \$51,823.35 (1983)

Date 16 September 1983 Signature of Recorded Holder or Agent Shurjeanov copy on back of file



The Mining Act Certificate Verifying Report of Work

I, C.J. Rockingham

390 Bay Street, Suite 1414, Toronto, Ontario M5H 2Y2

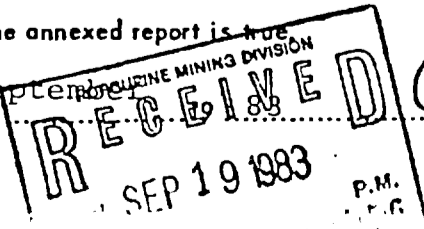
(Post Office Address)

hereby certify:

1. That I have a personal and intimate knowledge of the facts set forth in the report of work annexed here-to, having performed the work or witnessed same during and/or after its completion.

2. That the annexed report is true

Dated 16 September 1983 Signature C. Rockingham



COPY

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH.



Ministry of Natural Resources
GEOCHEMICAL SURVEY - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

File 25062

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.

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken

ANALYTICAL METHODS

Values expressed in: per cent, p.p.m., p.p.b.
Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)
Others

Field Analysis (tests)
Extraction Method
Analytical Method
Reagents Used
Field Laboratory Analysis
No. (tests)
Extraction Method
Analytical Method
Reagents Used
Commercial Laboratory (tests)
Name of Laboratory
Extraction Method
Analytical Method
Reagents Used
General

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis

General

Type of Survey(s) Geophysical and Geological
Township or Area Hopper Lake & Lower Detour Lake Areas
Claim Holder(s) Westmin Resources Limited
Survey Company Westmin Resources Ltd. & Phanton Expl.
Author of Report C.J. Rockingham
Address of Author 25 Adelaide St.E., #1400, Toronto M5C 1Y2
Covering Dates of Survey Jan.-Mar. 1982, Jan.-June 1983
Total Miles of Line Cut 444 km

Table with 3 columns: SPECIAL PROVISIONS CREDITS REQUESTED, Geophysical, DAYS per claim. Rows include: Electromagnetic (20), Magnetometer (20), Radiometric, Other, Geological (40), Geochemical.

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer Electromagnetic Radiometric
DATE: October 28/83 SIGNATURE: Author of Report or Agent

OFFICE USE ONLY

Table with columns: Res. Geol., Qualifications, Previous Surveys, File No., Type, Date, Claim Holder. Includes a grid for recording previous survey data.

MINING CLAIMS TRAVERSED

List numerically
(prefix) (number)
See attached list

TOTAL CLAIMS 272

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey _____ (

Number of Stations 17,760 Number of Readings 35,520
 Station interval 25 metres Line spacing 100 metres
 Profile scale 1 cm = 5g
 Contour interval <59,000V, 100V, 59,000-60,000 500V >6000V 1000V
 Instrument Total Field Magnetometer PPM 300 and PPM 400
 Accuracy - Scale constant ± 5nT
 Diurnal correction method Linear interpolation algorithm
 Base Station check-in interval (hours) 20 sec
 Base Station location and value Core shack 100 m W of Lower Detour Lake (line 95+35E 5+00N), 58,150V

MAGNETIC

Instrument Horizontal loop Apex Parametrics Max-Min II.
 Coil configuration N/A
 Coil separation 150 metres
 Accuracy ± 1/2 %
 Method: Fixed transmitter Shoot back In line Parallel line
 Frequency 222Hz and 3555Hz (specify V.L.F. station)
 Parameters measured In phase, out of phase

ELECTROMAGNETIC

Instrument _____
 Scale constant _____
 Corrections made _____
 Base station value and location _____
 Elevation accuracy _____

GRAVITY

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 _____

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 _____

INDUCED POLARIZATION

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) _____ (specify for each type of survey)
 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 _____

h PER LAKE AND LOWER DETOUR LAKE AREA

WORK TO BE APPLIED

Claims	Geology	Mag.	E. M.
1) P.549918	40	20	20
2) P.549919	40	20	20
3) P.549920	40	20	20
4) P.549921	40	20	20
5) P.549922	40	20	20
6) P.549923	40	20	20
7) P.549924	40	20	20
8) P.549925	40	20	20
9) P.549926	40	20	20
10) P.549927	40	20	20
11) P.549928	40	20	20
12) P.549929	40	20	20
13) P.549930	40	20	20
14) P.549931	40	20	20
15) P.553303	40	20	20
16) P.553304	40	20	20
17) P.553305	40	20	20
18) P.553306	40	20	20
19) P.553307	40	20	20
20) P.553308	40	20	20
21) P.553309	40	20	20
22) P.553310	40	20	20
23) P.553311	40	20	20
24) P.553312	40	20	20
25) P.553313	40	20	20
26) P.553314	40	20	20
27) P.553315	40	20	20
28) P.553316	40	20	20
29) P.553317	40	20	20
30) P.553318	40	20	20
31) P.553319	40	20	20
32) P.553320	40	20	20
33) P.553321	40	20	20
34) P.553322	40	20	20
35) P.553323	40	20	20
36) P.553324	40	20	20
37) P.553325	40	20	20
38) P.553326	40	20	20
39) P.553327	40	20	20
40) P.553328	40	20	20
41) P.553329	40	20	20
42) P.553330	40	20	20
43) P.553331	40	20	20
44) P.553332	40	20	20
45) P.553333	40	20	20
46) P.553334	40	20	20
47) P.553335	40	20	20

	Claims	Geology	Mag	E. M.
48)	P.553336	40	20	20
49)	P.553337	40	20	20
50)	P.553338	40	20	20
51)	P.553339	40	20	20
52)	P.553340	40	20	20
53)	P.553341	40	20	20
54)	P.553342	40	20	20
55)	P.553343	40	20	20
56)	P.553344	40	20	20
57)	P.553345	40	20	20
58)	P.553346	40	20	20
59)	P.553347	40	20	20
60)	P.553348	40	20	20
61)	P.553349	40	20	20
62)	P.553350	20	10	10
63)	P.553351	40	20	20
64)	P.553352	40	20	20
65)	P.553353	20	10	10
66)	P.553354	40	20	20
67)	P.553355	40	20	20
68)	P.553356	40	20	20
69)	P.553357	40	20	20
70)	P.553358	40	20	20
71)	P.553359	40	20	20
72)	P.553360	40	20	20
73)	P.553361	40	20	20
74)	P.553362	40	20	20
75)	P.553363	40	20	20
76)	P.553364	40	20	20
77)	P.553365	40	20	20
78)	P.553366	40	20	20
79)	P.553367	40	20	20
80)	P.553368	40	20	20
81)	P.553369	40	20	20
82)	P.553370	40	20	20
83)	P.553371	40	20	20
84)	P.553372	40	20	20
85)	P.553373	40	20	20
86)	P.553374	40	20	20
87)	P.553375	40	20	20
88)	P.553376	40	20	20
89)	P.553377	40	20	20
90)	P.553378	40	20	20
91)	P.553379	40	20	20
92)	P.553380	40	20	20
93)	P.553381	40	20	20
94)	P.553382	--	20	20
95)	P.553383	40	20	20

	Claims	Geology	Mag.	E. M.
96)	P.553384	40	20	20
97)	P.553385	40	20	20
98)	P.553386	40	20	20
99)	P.553387	40	20	20
100)	P.553388	40	20	20
101)	P.553389	40	20	20
102)	P.553390	40	20	20
103)	P.553391	40	20	20
104)	P.553392	40	20	20
105)	P.553393	40	20	20
106)	P.553394	40	20	20
107)	P.553395	40	20	20
108)	P.553396	40	20	20
109)	P.553397	40	20	20
110)	P.553398	40	20	20
111)	P.553399	40	20	20
112)	P.553400	40	20	20
113)	P.553401	40	20	20
114)	P.553402	40	20	20
115)	P.553403	40	20	20
116)	P.553404	40	20	20
117)	P.553405	40	20	20
118)	P.553406	40	20	20
119)	P.553407	40	20	20
120)	P.553408	40	20	20
121)	P.553409	40	20	20
122)	P.553410	40	20	20
123)	P.553411	40	20	20
124)	P.553412	40	20	20
125)	P.553413	40	20	20
126)	P.553414	40	20	20
127)	P.553415	40	20	20
128)	P.553416	40	20	20
129)	P.553417	40	20	20
130)	P.553418	40	20	20
131)	P.553419	40	20	20
132)	P.553420	40	20	20
133)	P.553421	40	20	20
134)	P.553422	40	20	20
135)	P.553423	40	20	20
136)	P.553424	40	20	20
137)	P.553425	40	20	20
138)	P.553426	40	20	20
139)	P.553427	40	20	20
140)	P.553428	40	20	20

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Claims	Geology	Mag.	E. M.
141) P.553429	40	20	20
142) P.553430	40	20	20
143) P.553431	40	20	20
144) P.553432	40	20	20
145) P.553433	40	20	20
146) P.553434	40	20	20
147) P.553435	20	20	20
148) P.553436	--	20	--
149) P.553437	20	20	20
150) P.553438	40	20	20
151) P.553439	40	20	20
152) P.553440	40	20	20
153) P.553441	40	20	20
154) P.553442	40	20	20
155) P.553443	40	20	20
156) P.553444	40	20	20
157) P.553445	40	20	20
158) P.553446	20	20	20
159) P.553447	40	20	20
160) P.553448	40	20	20
161) P.553449	40	20	20
162) P.553450	40	20	20
163) P.553451	40	20	20
164) P.553452	40	20	20
165) P.553453	40	20	20
166) P.553454	40	20	20
167) P.553455	40	20	20
168) P.553456	20	20	20
169) P.553457	--	20	--
170) P.553458	20	20	--
171) P.553459	40	20	20
172) P.553460	40	20	20
173) P.553461	40	20	20
174) P.553462	40	20	20
175) P.553463	40	20	20
176) P.553464	40	20	20
177) P.553465	40	20	20
178) P.553466	40	20	20
179) P.553467	40	20	20
180) P.553468	40	20	20
181) P.553469	40	20	20
182) P.553470	40	20	20
183) P.553471	40	20	20
184) P.553472	40	20	20
185) P.553473	20	20	20
186) P.553474	20	20	20
187) P.553475	20	20	20

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	<u>Claims</u>	<u>Geology</u>	<u>Mag.</u>	<u>E. M.</u>
188)	P.553476	40	20	20
189)	P.553477	40	20	20
190)	P.553478	40	20	20
191)	P.553479	20	20	20
192)	P.553480	--	20	20
193)	P.553481	--	20	20
194)	P.553482	20	20	20
195)	P.553483	40	20	20
196)	P.553503	40	20	20
197)	P.553504	40	20	20
198)	P.553505	40	20	20
199)	P.553506	40	20	20
200)	P.553507	40	20	20
201)	P.553508	40	20	20
202)	P.553509	40	20	20
203)	P.553510	40	20	20
204)	P.553511	40	20	20
205)	P.553512	40	20	20
206)	P.553513	40	20	20
207)	P.553514	40	20	20
208)	P.553515	40	20	20
209)	P.553516	40	20	20
210)	P.553517	40	20	20
211)	P.553518	40	20	20
212)	P.553520	40	20	20
213)	P.553521	40	20	20
214)	P.553522	40	20	20
215)	P.553523	40	20	20
216)	P.553524	40	20	20
217)	P.553525	40	20	20
218)	P.553526	40	20	20
219)	P.553527	40	20	20
220)	P.553528	40	20	20
221)	P.553529	40	20	20
222)	P.553530	40	20	20
223)	P.553531	40	20	20
224)	P.553532	40	20	20
225)	P.553533	40	20	20
226)	P.553534	40	20	20
227)	P.553535	40	20	20
228)	P.553536	40	20	20
229)	P.553537	40	20	20
230)	P.553538	40	20	20

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	<u>Claims</u>	<u>Geology</u>	<u>Mag.</u>	<u>E. M.</u>
231)	P.553539	40	20	20
232)	P.553540	40	20	20
233)	P.553541	40	20	20
234)	P.553542	40	20	20
235)	P.553543	40	20	20
236)	P.553544	40	20	20
237)	P.553545	40	20	20
238)	P.553546	40	20	20
239)	P.553547	40	20	20
240)	P.553548	40	20	20
241)	P.553549	40	20	20
242)	P.553550	40	20	20
243)	P.553551	40	20	20
244)	P.553552	40	20	20
245)	P.553553	40	20	20
246)	P.553554	40	20	20
247)	P.553555	40	20	20
248)	P.553556	40	20	20
249)	P.553557	40	20	20
250)	P.553558	40	20	20
251)	P.553559	40	20	20
252)	P.553560	40	20	20
253)	P.553561	40	20	20
254)	P.553562	40	20	20
255)	P.575672	40	20	20
256)	P.575673	--	20	20
257)	P.577751	40	20	20
258)	P.577752	40	20	20
259)	P.577753	40	20	20
260)	P.577754	40	20	20
261)	P.577755	40	20	20
262)	P.577756	40	20	20
263)	P.577757	40	20	20
264)	P.577758	40	20	20
265)	P.577759	40	20	20
266)	P.577760	40	20	20
267)	P.577761	40	20	20
268)	P.577762	40	20	20
269)	P.577763	20	10	10
270)	P.577765	30	15	15
271)	P.577766	40	20	20
272)	P.577767	40	20	20

W. L. ...

2.50

HOPPER LAKE AND LOWER DETOUR LAKE AREA

WORK TO BE APPLIED

Claims	Geology	Mag.	E. M.
1) P.549918	40	20 ✓	20 ✓
2) P.549919	40	20 ✓	20 ✓
3) P.549920	40	20 ✓	20 ✓
4) P.549921	40	20 ✓	20 ✓
5) P.549922	40	20 ✓	20 ✓
6) P.549923	40	20 ✓	20 ✓
7) P.549924	40	20 ✓	20 ✓
8) P.549925	40	20 ✓	20 ✓
9) P.549926	40	20 ✓	20 ✓
10) P.549927	40	20 ✓	20 ✓
11) P.549928	40	20 ✓	20 ✓
12) P.549929	40	20 ✓	20 ✓
13) P.549930	40	20 ✓	20 ✓
14) P.549931	40	20 ✓	20 ✓
15) P.553303	40	20 ✓	20 ✓
16) P.553304	40	20 ✓	20 ✓
17) P.553305	40	20 ✓	20 ✓
18) P.553306	40	20 ✓	20 ✓
19) P.553307	40	20 ✓	20 ✓
20) P.553308	40	20 ✓	20 ✓
21) P.553309	40	20 ✓	20 ✓
22) P.553310	40	20 ✓	20 ✓
23) P.553311	40	20 ✓	20 ✓
24) P.553312	40	20 ✓	20 ✓
25) P.553313	40	20 ✓	20 ✓
26) P.553314	40	20 ✓	20 ✓
27) P.553315	40	20 ✓	20 ✓
28) P.553316	40	20 ✓	20 ✓
29) P.553317	40	20 ✓	20 ✓
30) P.553318	40	20 ✓	20 ✓
31) P.553319	40	20 ✓	20 ✓
32) P.553320	40	20 ✓	20 ✓
33) P.553321	40	20 ✓	20 ✓
34) P.553322	40	20 ✓	20 ✓
35) P.553323	40	20 ✓	20 ✓
36) P.553324	40	20 ✓	20 ✓
37) P.553325	40	20 ✓	20 ✓
38) P.553326	40	20 ✓	20 ✓
39) P.553327	40	20 ✓	20 ✓
40) P.553328	40	20 ✓	20 ✓
41) P.553329	40	20 ✓	20 ✓
42) P.553330	40	20 ✓	20 ✓
43) P.553331	40	20 ✓	20 ✓
44) P.553332	40	20 ✓	20 ✓
45) P.553333	40	20 ✓	20 ✓
46) P.553334	40	20 ✓	20 ✓
47) P.553335	40	20 ✓	20 ✓

	Claims	Geology	Mag	E. M.
48)	P.553336	40	20 ✓	20 ✓
49)	P.553337	40	20 ✓	20 ✓
50)	P.553338	40	20 ✓	20 ✓
51)	P.553339	40	20 ✓	20 ✓
52)	P.553340	40	20 ✓	20 ✓
53)	P.553341	40	20 ✓	20 ✓
54)	P.553342	40	20 ✓	20 ✓
55)	P.553343	40	20 ✓	20 ✓
56)	P.553344	40	20 ✓	20 ✓
57)	P.553345	40	20 ✓	20 ✓
58)	P.553346	40	20 ✓	20 ✓
59)	P.553347	40	20 ✓	20 ✓
60)	P.553348	40	20 ✓	20 ✓
61)	P.553349	40	20 ✓	20 ✓
62)	P.553350	20	10 ✓	10 $\frac{1}{4}$ ✓
63)	P.553351	40	20 ✓	20 ✓
64)	P.553352	40	20 ✓	20 ✓
65)	P.553353	20	10 $\frac{1}{4}$ - $\frac{1}{2}$ ✓	10 $\frac{1}{4}$ - $\frac{1}{2}$ ✓
66)	P.553354	40	20 ✓	20 ✓
67)	P.553355	40	20 ✓	20 ✓
68)	P.553356	40	20 ✓	20 ✓
69)	P.553357	40	20 ✓	20 ✓
70)	P.553358	40	20 ✓	20 ✓
71)	P.553359	40	20 ✓	20 ✓
72)	P.553360	40	20 ✓	20 ✓
73)	P.553361	40	20 ✓	20 ✓
74)	P.553362	40	20 ✓	20 ✓
75)	P.553363	40	20 ✓	20 ✓
76)	P.553364	40	20 ✓	20 ✓
77)	P.553365	40	20 ✓	20 ✓
78)	P.553366	40	20 ✓	20 ✓
79)	P.553367	40	20 ✓	20 ✓
80)	P.553368	40	20 ✓	20 ✓
81)	P.553369	40	20 ✓	20 ✓
82)	P.553370	40	20 ✓	20 ✓
83)	P.553371	40	20 ✓	20 ✓
84)	P.553372	40	20 ✓	20 ✓
85)	P.553373	40	20 ✓	20 ✓
86)	P.553374	40	20 ✓	20 ✓
87)	P.553375	40	20 ✓	20 ✓
88)	P.553376	40	20 ✓	20 ✓
89)	P.553377	40	20 ✓	20 ✓
90)	P.553378	40	20 ✓	20 ✓
91)	P.553379	40	20 ✓	20 ✓
92)	P.553380	40	20 ✓	20 ✓
93)	P.553381	40	20 ✓	20 ✓
94)	P.553382	--	20 ✓	20 ✓
95)	P.553383	40	20 ✓	20 ✓

	Claims	Geology	Mag.	E. M.
96)	P.553384	40	20	20
97)	P.553385	40	20	20
98)	P.553386	40	20	20
99)	P.553387	40	20	20
100)	P.553388	40	20	20
101)	P.553389	40	20	20
102)	P.553390	40	20	20
103)	P.553391	40	20	20
104)	P.553392	40	20	20
105)	P.553393	40	20	20
106)	P.553394	40	20	20
107)	P.553395	40	20	20
108)	P.553396	40	20	20
109)	P.553397	40	20	20
110)	P.553398	40	20	20
111)	P.553399	40	20	20
112)	P.553400	40	20	20
113)	P.553401	40	20	20
114)	P.553402	40	20	20
115)	P.553403	40	20	20
116)	P.553404	40	20	20
117)	P.553405	40	20	20
118)	P.553406	40	20	20
119)	P.553407	40	20	20
120)	P.553408	40	20	20
121)	P.553409	40	20	20
122)	P.553410	40	20	20
123)	P.553411	40	20	20
124)	P.553412	40	20	20
125)	P.553413	40	20	20
126)	P.553414	40	20	20
127)	P.553415	40	20	20
128)	P.553416	40	20	20
129)	P.553417	40	20	20
130)	P.553418	40	20	20
131)	P.553419	40	20	20
132)	P.553420	40	20	20
133)	P.553421	40	20	20
134)	P.553422	40	20	20
135)	P.553423	40	20	20
136)	P.553424	40	20	20
137)	P.553425	40	20	20
138)	P.553426	40	20	20
139)	P.553427	40	20	20
140)	P.553428	40	20	20

20 1/2

.....4

Claims	Geology	Mag.	E. M.
141) P.553429	40	20 ✓	20 ✓
142) P.553430	40	20 ✓	20 ✓
143) P.553431	40	20 ✓	20 ✓
144) P.553432	40	20 ✓	20 ✓
145) P.553433	40	20 ✓	20 ✓
146) P.553434	40	20 ✓	20 ✓
147) P.553435	20	20 ✓	20 ✓
148) P.553436	--	20 ✓	--
149) P.553437	20	20 ✓	20 ✓
150) P.553438	40	20 ✓	20 ✓
151) P.553439	40	20 ✓	20 ✓
152) P.553440	40	20 ✓	20 ✓
153) P.553441	40	20 ✓	20 ✓
154) P.553442	40	20 ✓	20 ✓
155) P.553443	40	20 ✓	20 ✓
156) P.553444	40	20 ✓	20 ✓
157) P.553445	40	20 ✓	20 ✓
158) P.553446	20	20 ✓	20 ✓
159) P.553447	40	20 ✓	20 ✓
160) P.553448	40	20 ✓	20 ✓
161) P.553449	40	20 ✓	20 ✓
162) P.553450	40	20 ✓	20 ✓
163) P.553451	40	20 ✓	20 ✓
164) P.553452	40	20 ✓	20 ✓
165) P.553453	40	20 ✓	20 ✓
166) P.553454	40	20 ✓	20 ✓
167) P.553455	40	20 ✓	20 ✓
168) P.553456	20	20 ✓	20 ✓
169) P.553457	--	20 ✓	--
170) P.553458	20	20 ✓	--
171) P.553459	40	20 ✓	20 ✓
172) P.553460	40	20 ✓	20 ✓
173) P.553461	40	20 ✓	20 ✓
174) P.553462	40	20 ✓	20 ✓
175) P.553463	40	20 ✓	20 ✓
176) P.553464	40	20 ✓	20 ✓
177) P.553465	40	20 ✓	20 ✓
178) P.553466	40	20 ✓	20 ✓
179) P.553467	40	20 ✓	20 ✓
180) P.553468	40	20 ✓	20 ✓
181) P.553469	40	20 ✓	20 ✓
182) P.553470	40	20 ✓	20 ✓
183) P.553471	40	20 ✓	20 ✓
184) P.553472	40	20 ✓	20 ✓
185) P.553473	20	20 ✓	20 ✓
186) P.553474	20	20 ✓	20 ✓
187) P.553475	20	20 ✓	20 ✓

	Claims	Geology	Mag.	E. M.
188)	P.553476	40	20 ✓	20 ✓
189)	P.553477	40	20 ✓	20 ✓
190)	P.553478	40	20 ✓	20 ✓
191)	P.553479	20	20 ✓	20 ✓
192)	P.553480	--	20 ✓	20 ✓
193)	P.553481	--	20 ✓	20 ✓
194)	P.553482	20	20 ✓	20 ✓
195)	P.553483	40	20 ✓	20 ✓
196)	P.553503	40	20 ✓	20 ✓
197)	P.553504	40	20 ✓	20 ✓
198)	P.553505	40	20 ✓	20 ✓
199)	P.553506	40	20 ✓	20 ✓
200)	P.553507	40	20 ✓	20 ✓
201)	P.553508	40	20 ✓	20 ✓
202)	P.553509	40	20 ✓	20 ✓
203)	P.553510	40	20 ✓	20 ✓
204)	P.553511	40	20 ✓	20 ✓
205)	P.553512	40	20 ✓	20 ✓
206)	P.553513	40	20 ✓	20 ✓
207)	P.553514	40	20 ✓	20 ✓
208)	P.553515	40	20 ✓	20 ✓
209)	P.553516	40	20 ✓	20 ✓
210)	P.553517	40	20 ✓	20 ✓
211)	P.553518	40	20 ✓	20 ✓
212)	P.553520	40	20 ✓	20 ✓
213)	P.553521	40	20 ✓	20 ✓
214)	P.553522	40	20 ✓	20 ✓
215)	P.553523	40	20 ✓	20 ✓
216)	P.553524	40	20 ✓	20 ✓
217)	P.553525	40	20 ✓	20 ✓
218)	P.553526	40	20 ✓	20 ✓
219)	P.553527	40	20 ✓	20 ✓
220)	P.553528	40	20 ✓	20 ✓
221)	P.553529	40	20 ✓	20 ✓
222)	P.553530	40	20 ✓	20 ✓
223)	P.553531	40	20 ✓	20 ✓
224)	P.553532	40	20 ✓	20 ✓
225)	P.553533	40	20 ✓	20 ✓
226)	P.553534	40	20 ✓	20 ✓
227)	P.553535	40	20 ✓	20 ✓
228)	P.553536	40	20 ✓	20 ✓
229)	P.553537	40	20 ✓	20 ✓
230)	P.553538	40	20 ✓	20 ✓

2.5963
→

	Claims	Geology	Mag.	E. M.
231)	P.553539	40	20 ✓	20 ✓
232)	P.553540	40	20 ✓	20 ✓
233)	P.553541	40	20 ✓	20 ✓
234)	P.553542	40	20 ✓	20 ✓
235)	P.553543	40	20 ✓	20 ✓
236)	P.553544	40	20 ✓	20 ✓
237)	P.553545	40	20 ✓	20 ✓
238)	P.553546	40	20 ✓	20 ✓
239)	P.553547	40	20 ✓	20 ✓
240)	P.553548	40	20 ✓	20 ✓
241)	P.553549	40	20 ✓	20 ✓
242)	P.553550	40	20 ✓	20 ✓
243)	P.553551	40	20 ✓	20 ✓
244)	P.553552	40	20 ✓	20 ✓
245)	P.553553	40	20 ✓	20 ✓
246)	P.553554	40	20 ✓	20 ✓
247)	P.553555	40	20 ✓	20 ✓
248)	P.553556	40	20 ✓	20 ✓
249)	P.553557	40	20 ✓	20 ✓
250)	P.553558	40	20 ^{1/4}	20 ✓
251)	P.553559	40	20 ^{1/4}	20 ✓
252)	P.553560	40	20 ✓	20 ✓
253)	P.553561	40	20 ✓	20 ✓
254)	P.553562	40	20 ✓	20 ✓
255)	P.575672	40	20 ✓	20 ^{1/4}
256)	P.575673	--	20 ✓	20 ^{1/4}
257)	P.577751	40	20	20 ✓
258)	P.577752	40	20	20 ✓
259)	P.577753	40	20	20 ✓
260)	P.577754	40	20	20 ✓
261)	P.577755	40	20	20 ✓
262)	P.577756	40	20	20 ✓
263)	P.577757	40	20	20 ✓
264)	P.577758	40	20	20 ✓
265)	P.577759	40	20	20 ✓
266)	P.577760	40	20 ✓	20 ✓
267)	P.577761	40	20 ✓	20 ✓
268)	P.577762	40	20 ✓	20 ✓
269)	P.577763	20	10 ^{1/4}	10 ^{1/4}
270)	P.577765	30	15 ^{1/4}	15 ^{1/4}
271)	P.577766	40	20 ✓	20 ✓
272)	P.577767	40	20 ^{1/4} ✓	20 ^{1/2}

Handwritten notes and stamps on the right side of the page, including a circular stamp and illegible text.

249 & 250

1983 11 04

2.5962

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

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 P 549918 et al in the Areas of Hopper Lake and Lower Detour Lake.

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 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

A. Barr:mc

cc: Westmin Resources Limited
Suite 1414
390 Bay Street
Toronto, Ontario
M5H 2Y2



Westmin Resources Limited
Suite 1414, 390 Bay Street
Toronto, Ontario, Canada
M5H 2Y2
416 364-8116 Telex: 06-22072

Registered Mail

October 28, 1983.

Ministry of Natural Resources,
Lands Admin. Branch,
Room 6450,
Whitney Block,
Queen's Park,
Toronto, Ontario.
M7A 1X1.

Dear Sirs: Re: Assessment Reports: Geological and Geophysical
Hopper Lake and Lower Detour Lake Area

Please find enclosed in duplicate two reports:

- 1) Assessment Report on the Geology of the Detour-
Lower Detour claims by C. J. Rockingham, and
- 2) Electromagnetic and Magnetic Surveys, Detour-
Lower Detour Claim Group, by C. J. Rockingham.

The Mining Act Reports of Work have been forwarded to the Mining Recorder Office on September 16, 1983, and amended on October 27, 1983 (copies enclosed).

I hope you will find everything in order.

Thank you.

Yours truly,

WESTMIN RESOURCES LIMITED

A handwritten signature in cursive script, appearing to read "S. Kuprejanov".

(Mrs.) S. Kuprejanov,
Administrative Geologist.

SK/hmc
Encls.

RECEIVED
OCT 31 1983
MINING LANDS SECTION



Westmin Resources Limited
 Suite 1414, 390 Bay Street
 Toronto, Ontario, Canada
 M5H 2Y2
 416 364-8116 Telex: 06-22072

COPY

October 27, 1983.

Ministry of Natural Resources,
 The Mining Recorder Office,
 60 Wilson Avenue,
 Timmins, Ontario.
 P4N 2S7.

Attention: Miss Colomee Yaniuk

Dear Miss Yaniuk:

We have filed with your office Report of Work on certain claims in Hopper and Lower Detour Lake Area (as per attached copies). At that time we did not have finished reports and maps of the area. Reviewing the reports of this work I have noticed that some claims are submerged and therefore it could not be filed ~~as~~ geological work on them. Also some claims on the edges of the property are not completely covered by geophysical surveys.

Please delete from your record the work filed on 16 September 1983 on the claims listed below and please record the work as follows:

Geological

P.553350	20
P.553353	20
P.553435	20
P.553436	Nil
P.553437	20
P.553446	20
P.553456	20
P.553457	Nil
P.553458	20
P.553473	20
P.553474	20
P.553475	20
P.553479	20
P.553480	Nil
P.553481	Nil
P.553482	20
P.577763	20
P.577764	Nil
P.577765	30

RECEIVED
 OCT 31 1983
 MINING LANDS SECTION



October 27, 1983.

Electromagnetic

P.553350	10
P.553353	10
P.577763	10
P.577764	Nil
P.577765	15

Magnetometer

P.553350	10
P.553353	10
P.577763	10
P.577764	Nil
P.577765	15

RECEIVED
OCT 31 1983
MINING LANDS SECTION

Yours truly,

WESTMIN RESOURCES LIMITED

A handwritten signature in cursive script, appearing to read "S. Kuprejanov".

(Mrs.) S. Kuprejanov,
Administrative Geologist.

SK/hmc
Encls.

2.5962

1984 01 19

Your File: 249 & 250

Our File : 2.5962

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer) Survey
on Mining Claims P 549918 et al in the Areas of Hopper
Lake and Lower Detour Lake.

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

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

Yours very truly,

J..R. Morton
Acting Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

D. Kinvig:sc

cc: Westmin Resources Ltd
Toronto, Ontario

cc: Resident Geologist
Timmins, Ontario

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

**Technical Assessment
Work Credits**

File 2,5962	
Date 1984 01 19	Mining Recorder's Report of Work No. 250

Recorded Holder WESTMIN RESOURCES LIMITED
Township or Area HOPPER LAKE & LOWER DETOUR LAKE

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic <u>20</u> days	P 549918 to 31 inclusive
Magnetometer _____ days	553303 to 435 "
Radiometric _____ days	553437 to 56 "
Induced polarization _____ days	553459 to 553483 "
Other _____ days	553503 to 18 "
	553520 to 62 "
	575672-73
Section 77 (19) See "Mining Claims Assessed" column	577751 to 763 "
Geological _____ days	577765 to 67 "
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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

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:

Recorded Holder
 WESTMIN RESOURCES LIMITED

Township or Area
 HOPPER LAKE & LOWER DETOUR LAKE

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ 20 _____ days Radiometric _____ days Induced polarization _____ days Other _____ days	P 549918 to 31 incl 553303 to 483 incl 553503 to 18 incl 553520 to 62 incl 575672-73 577751 to 63 incl 577765 to 67 incl
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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey
 Insufficient technical data filed

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:

copy # 250.
P-54 9918 # 250.

Lower Nelson Lake Hopper Lake

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK Porcupine

To the Recorder of Mining Division

I, Westmin Resources Limited T 778
name of Recorded Holder Prospector's Licence

390 Bay St., Suite 1414, Toronto, Ontario M5H 2Y2
Post Office Address

do hereby report the performance of 5,400 days of Geophysical; Max-Min (E.M)
not before reported to be applied on the following contiguous claims type of work

Claim No.	Days	Claim No.	Days	Claim No.	Days
P.549918-549931	(14) ..20/each	P.575672-575673	(2) 20/each		
P.553303-553435	(133) ..20/each	P.577751-577767	(17) 20/each		
P.553437-553456	(20) ..20/each				
P.553459-553483	(25) ..20/each				
P.553503-553518	(16) ..20/each	FOR DETAILS SEE ATTACHED LIST "C"			
P.553520-553562	(43) ..20/each				

269

All the work was performed on Mining Claim (s) 270 claims; See attached List "C"
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Author of the Report: C.J. Rockingham
 Dates of Survey: February 1982
April, May, June 1983
 Instrument used: Max-Min II. (222 Hz)
 Expenditure: \$29,160.21 (1982)
\$51,823.35 (1983) Total: \$80,983.56
 Date 16 September 1983

RECORDED
SEP 19 1983
Receipt No. _____

Shurjeanov
Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

I, C.J. Rockingham
390 Bay Street, Suite 1414, Toronto, Ontario M5H 2Y2
(Post Office Address)

hereby certify:

1. 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.

2. That the annexed report is true
 Dated 16 September 1983
C. Rockingham
 Signature

RECEIVED
SEP 19 1983
P.M. 5:06

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

October 27, 1983.

Electromagnetic

P.553350	10
P.553353	10
P.577763	10
P.577764	Nil
P.577765	15

Magnetometer

P.553350	10
P.553353	10
P.577763	10
P.577764	Nil
P.577765	15

Geological

P.553350	20
P.553353	20
P.553435	20
P.553436	Nil
P.553437	20
P.553446	20
P.553456	20
P.553457	Nil
P.553458	20
P.553473	20
P.553474	20
P.553475	20
P.553479	20
P.553480	Nil
P.553481	Nil
P.553482	20
P.577763	20
P.577764	Nil
P.577765	30

E.M.Survey to be applied to the following claims:

<u>Claims</u>	<u>Days</u>		<u>Total Days</u>
P.549918-549931 (14)	20/each	=	280
P.553303-553349 (47)	20/each	=	940
P.553350 (1)	10	=	10
P.553351-553352 (2)	20/each	=	40
P.553353 (1)	10	=	10
P.553354-553435 (82)	20/each	=	1,640
P.553437-553456 (20)	20/each	=	400
P.553459-553483 (25)	20/each	=	500
P.553503-553518 (16)	20/each	=	320
P.553520-553562 (43)	20/each	=	860
P.575672-575673 (2)	20/each	=	40
P.577751-577762 (12)	20/each	=	240
P.577763 (1)	10	=	10
P.577765 (1)	15	=	15
P.577766-577767 (2)	20/each	=	40

269

5,345 days

October 27,1983



Ministry of Natural Resources

Ontario

P-549918

Copy #248

Lower Detour Lake Upper Lake area

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of Porcupine Mining Division Westmin Resources Limited T. 778

name of Recorded Holder 390 Bay Street, Suite 1414, Toronto, Ontario M5H 2Y2

do hereby report the performance of 5,460 days of Geophysical; Magnetometer (mag) type of work

not before reported to be applied on the following contiguous claims

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Contains several rows of claim numbers and days.

All the work was performed on Mining Claim (s) All claims listed in List "B" (272 claims) (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment. For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate. For Compressed Air or Other Power Driven or Mechanical Equipment Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment. For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording. With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate. For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording. For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Author of the report: C.J. Rockingham Instrument used: Magnetometer EDA ppm 300 and ppm 400 Dates of Survey: February-March 1982 February 1-April 30, 1983 Expenditure: \$43,255.00

RECORDED 1 SEP 19 1983 Receipt No.

Date 16 September 1983 Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

C.J. Rockingham

390 Bay St., Suite 1414, Toronto, Ontario M5H 2Y2 (Post Office Address)

hereby certify: 1. 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. 2. That the annexed report is true.

Dated 16 September

RECEIVED SEP 19 1983 P.M. 7, 8, 9, 10, 11, 12, 1, 2, 3, 4, 5, 6

Signature of C.J. Rockingham

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

Magnetometer Survey to be applied to the following claims:

<u>Claims</u>	<u>Days</u>	<u>Total Days</u>
P.549918-549931 (14)	20/each	= 280
P.553303-553349 (47)	20/each	= 940
P.553350 (1)	10	= 10
P.553351-553352 (2)	20/each	= 40
P.553353 (1)	10	= 10
P.553354-553483 (130)	20/each	= 2,600
P.553503-553518 (16)	20/each	= 320
P.553520-553562 (43)	20/each	= 860
P.575672-575673 (2)	20/each	= 40
P.577751-577762 (12)	20/each	= 240
P.577763 (1)	10	= 10
P.577765 (1)	15	= 15
P.577766-577767 (2)	20/each	= 40

272

5,405 days

October 27, 1983



Mining Lands Comments

- report not signed - certification required so let go

To: Geophysics

Mr. Roger Baulow

Comments

Approved Wish to see again with corrections

Date *Dec 5/83* Signature *R Baulow*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections

Date Signature

To: Geochemistry

Comments

L.D.

Approved Wish to see again with corrections

Date Signature

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

SUNDAY LAKE G-1677



HOPPER LAKE G-1636

PROVINCE OF QUEBEC

ATKINSON LAKE G-1626

REFERENCES

- AREAS WITHDRAWN FROM DISPOSITION
- M.R.O. MINING RIGHTS ONLY
- S.R.O. SURFACE RIGHTS ONLY
- M.S. MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
NR 1/81		15/1/81	S.R.O.	88511

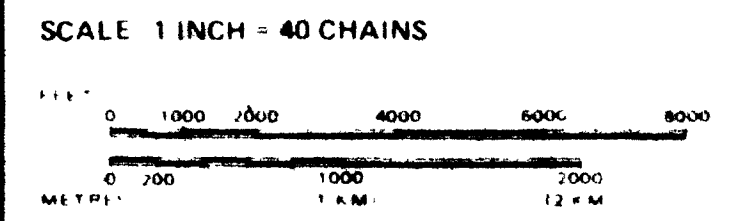
Received Aug 4/83

LEGEND

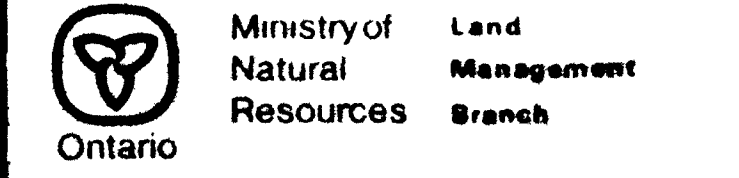
- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP BASE LINES ETC.
- LOTS MINING CLAIMS PARCELS ETC.
- UNSURVEYED LINES
- LOT LINE
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERMANENT STREAM
- FLOODING OR EROSION RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKIEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

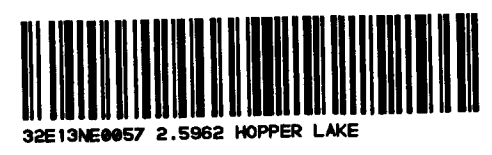
TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	◐
LEASE SURFACE & MINING RIGHTS	◑
SURFACE RIGHTS ONLY	◒
MINING RIGHTS ONLY	◓
LICENCE OF OCCUPATION	○
ORDER IN COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○



AREA
LOWER DETOUR LAKE
 M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE
 MINING DIVISION
PORCUPINE
 LAND TITLES / REGISTRY DIVISION
COCHRANE



Date DECEMBER 1982
 Number **G-1647**



WEST OF SUNDAY LAKE G-1680

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. MINING AND SURFACE RIGHTS

Description	Order No	Date	Disposition	File
(43)	NR 17/81	5/7/81	SR	88811

SAND AND GRAVEL

(43) QUARRY PERMIT

(43) withdrawn S.R.O. section 43
 - Quarry permit 7/10/81
 - cancelled 11/16/81

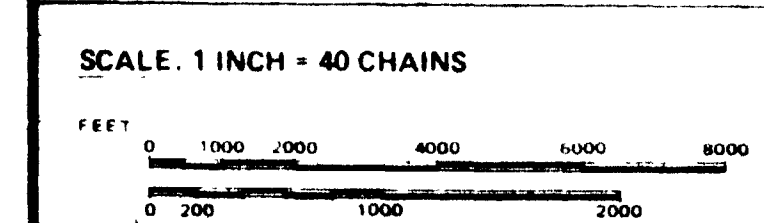
LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES ETC
- LOTS, MINING CLAIMS, PARCELS ETC
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS, ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORLINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

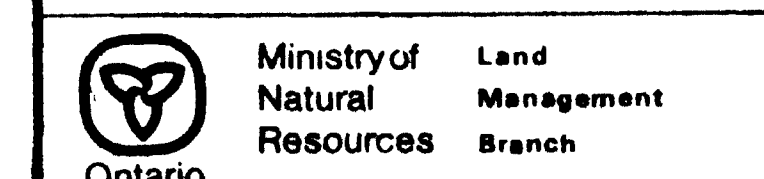
DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◼
" MINING RIGHTS ONLY	◻
LICENCE OF OCCUPATION	▼
ORDER IN-COUNCIL	OC
RESERVATION	○
CANCELLED	⊙
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8 1813 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP 380 SEC 83 SUBSEC 1



AREA
HOPPER LAKE
 M.N.R. ADMINISTRATIVE DISTRICT
 COCHRANE
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 COCHRANE

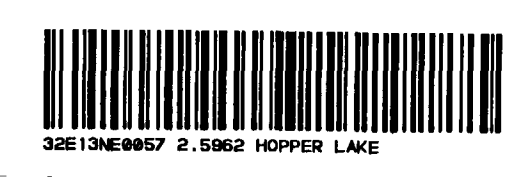


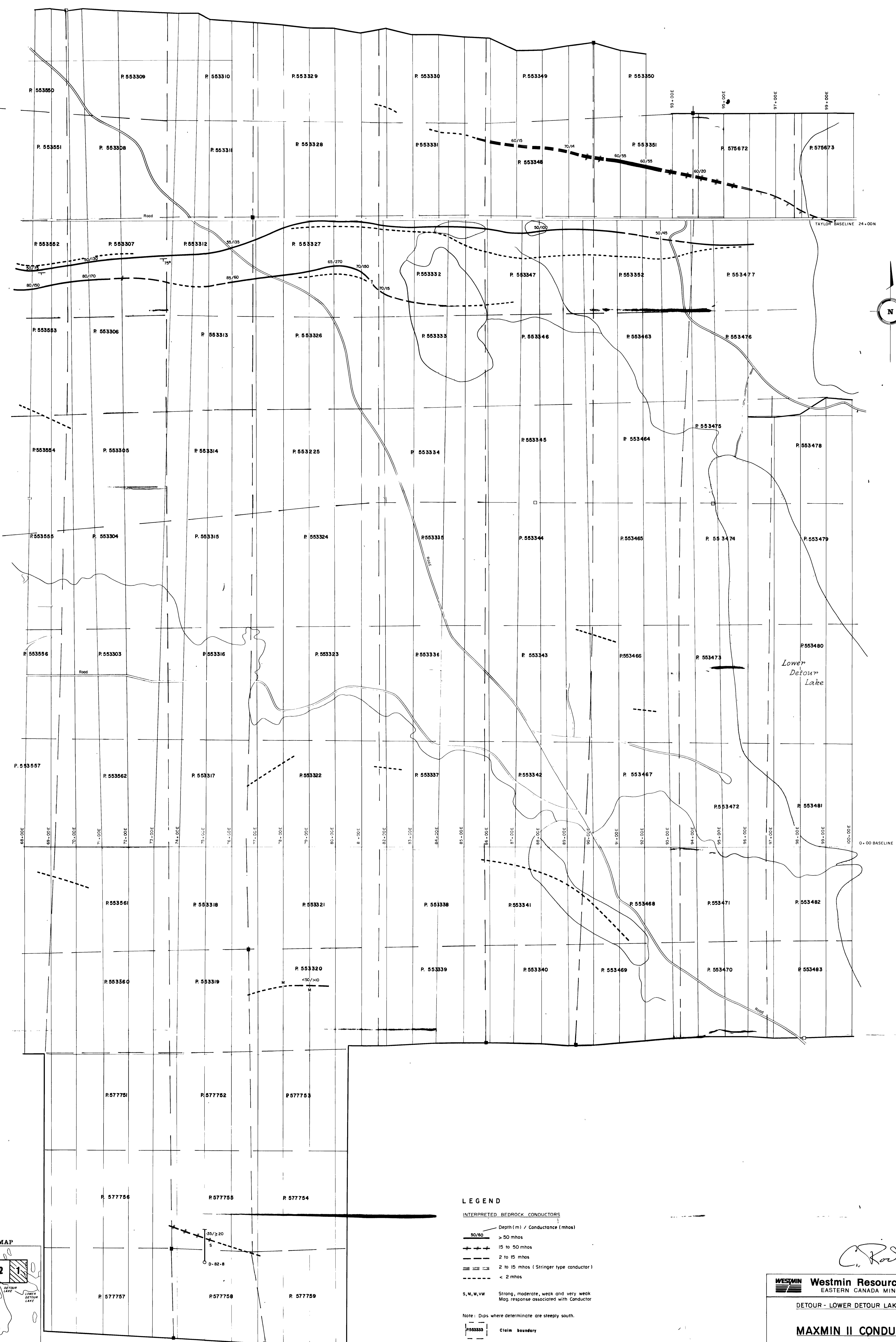
Date: DECEMBER 1982
 Number: **G-1636**

LOWER DETOUR LAKE G-1647

MARQUIS LAKE G-1649

LITTLE DETOUR LAKE G-1645





LEGEND

INTERPRETED BEDROCK CONDUCTORS

— Depth (m) / Conductance (mhos)

— 50/60

— 15 to 50 mhos

— 2 to 15 mhos

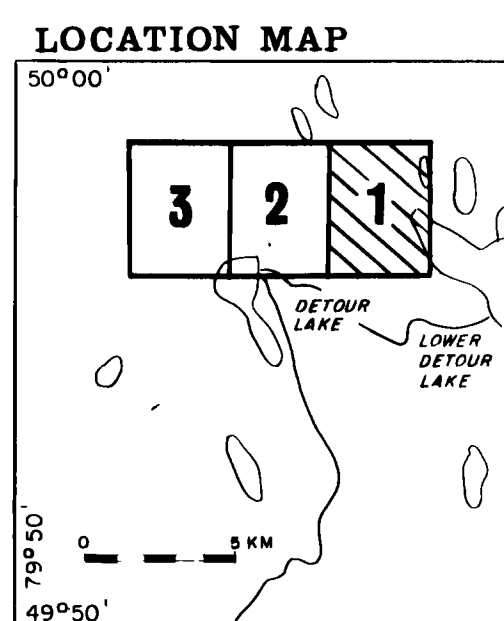
— 2 to 15 mhos (Stringer type conductor)

— < 2 mhos

S, M, W, V Weak, moderate, weak and very weak Mag. response associated with Conductor

Note: Dips where determinate are steeply south.

— Claim boundary



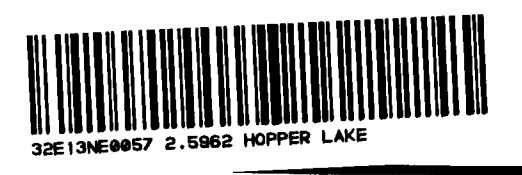
C. Rodolph

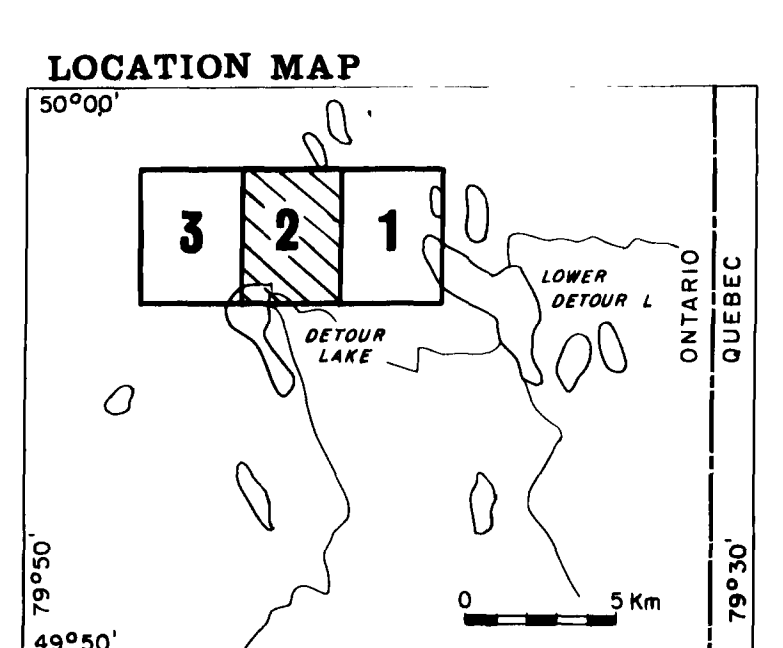
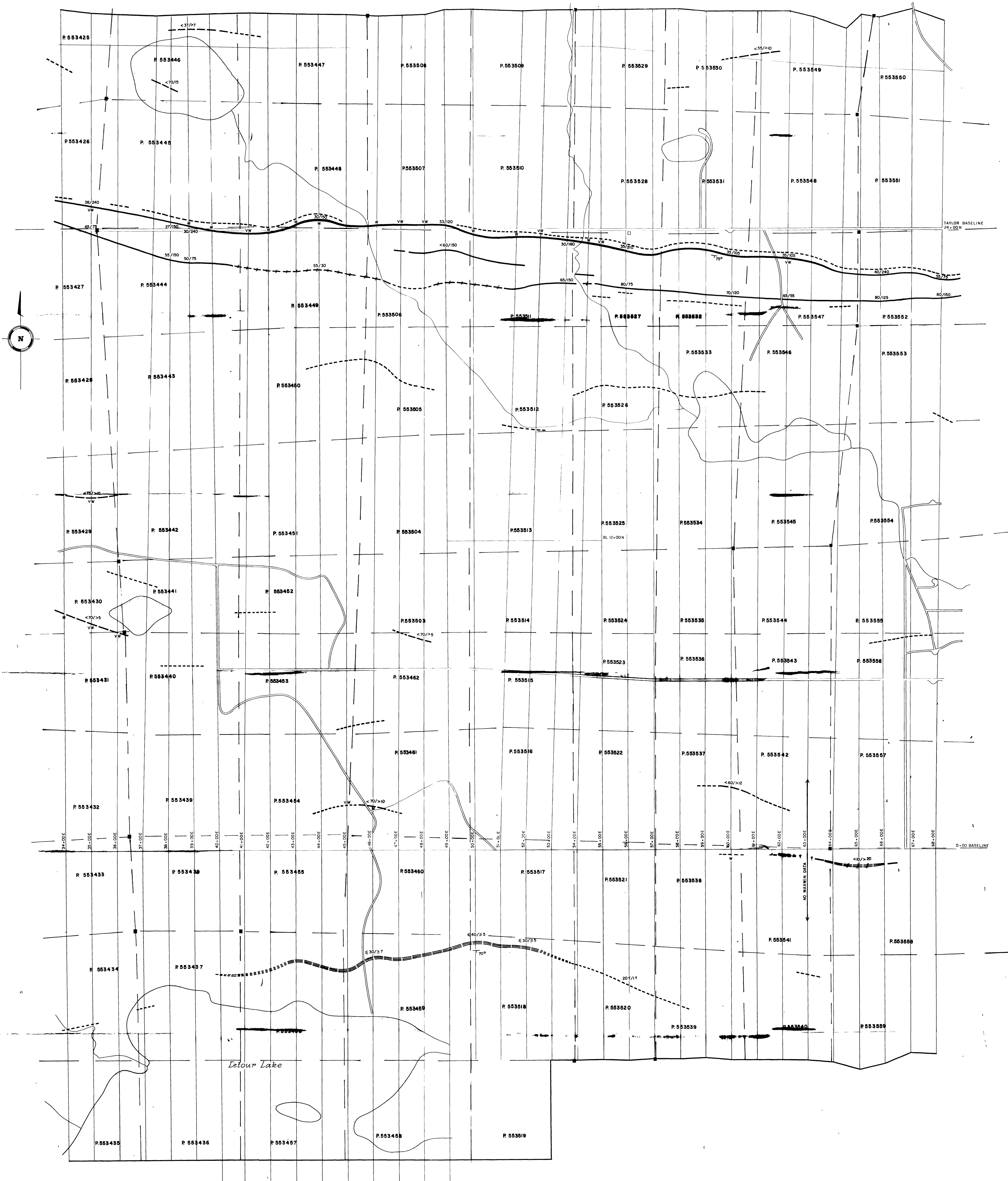
WESTMIN Westmin Resources Limited
EASTERN CANADA MINING DIVISION

DETOUR - LOWER DETOUR LAKE CLAIMS

MAXMIN II CONDUCTORS

Work by J. Betz, Phantom Exp. Scale 1:5,000
Date 1982, 83 NTS 32E/13





- LEGEND**
- INTERPRETED BEDROCK CONDUCTORS**
- Depth (m) / Conductance (mhos)
 - 50/50 > 50 mhos
 - 15 to 50 mhos
 - 2 to 15 mhos
 - 2 to 15 mhos (Stringer type conductor)
 - < 2 mhos
- s, m, w, vw Strong, moderate, weak and very weak Mag. response associated with Conductor
- Note: Dips where determinate are steeply south.
- P. 553441 Claim boundary

C. Rodin

Westmin Resources Limited
EASTERN CANADA MINING DIVISION

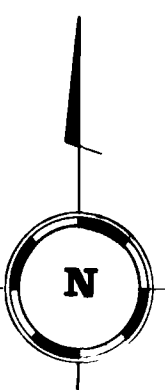
DETOUR - LOWER DETOUR LAKE CLAIMS

MAXMIN II CONDUCTORS

Work by J. Betz, Phantom Expl. Scale 1:5,000
Date 1982, 83 NTS 32E/13

OLD TIE LINE AND BOUNDARY

TAYLOR BASELINE
24.00N



BASELINE 0+000

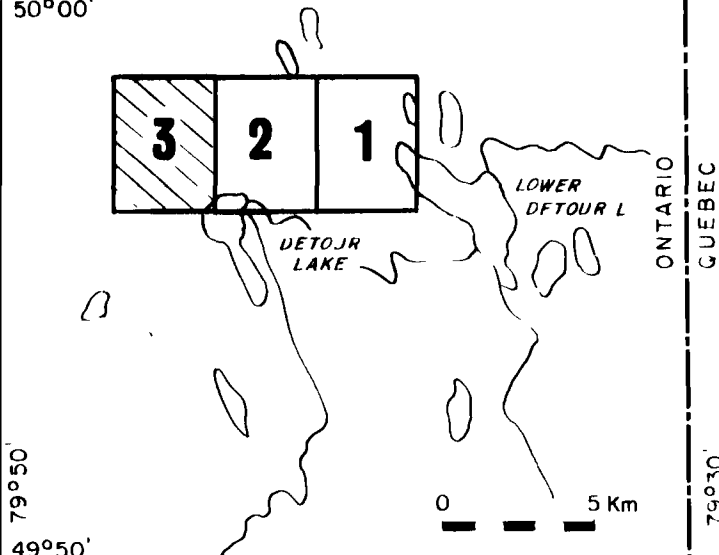


LEGEND

INTERPRETED BEDROCK CONDUCTORS

- Depth (m) / Conductance (mhos)
- 50/60 > 50 mhos
- 15 to 50 mhos
- 2 to 15 mhos
- 2 to 15 mhos (Stringer type conductor)
- < 2 mhos
- S, W, W, VW Strong, moderate, weak and very weak Mag. response associated with conductor
- Note: Dips where determinate are steeply south.
- Claim boundary

LOCATION MAP



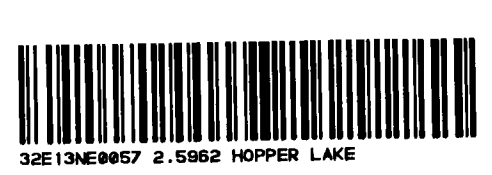
C. Rodin

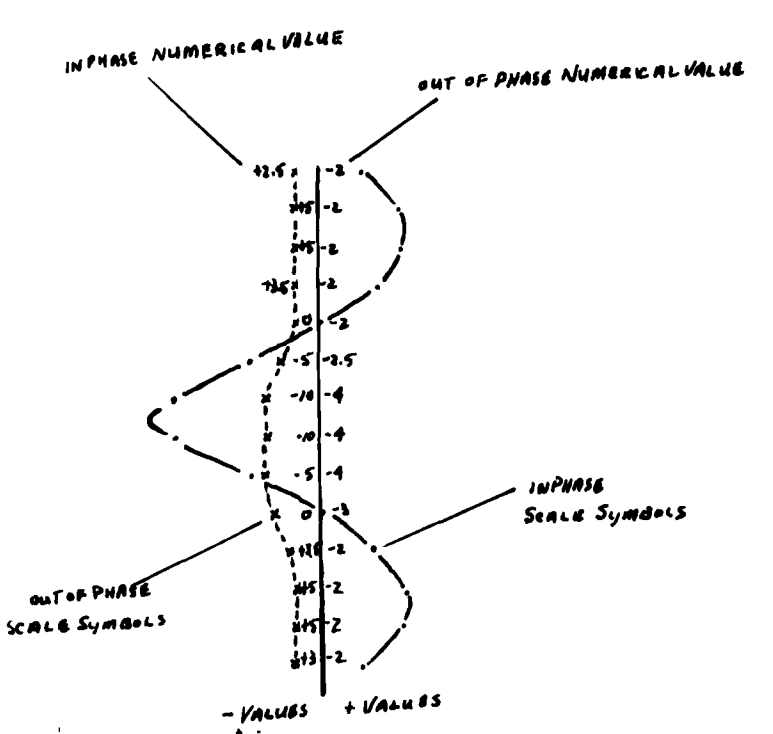
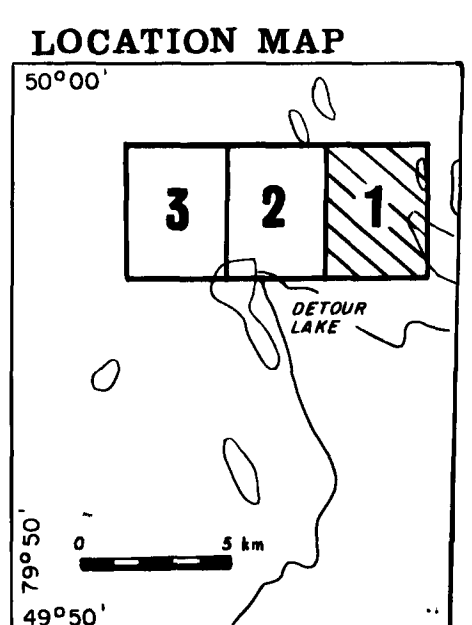
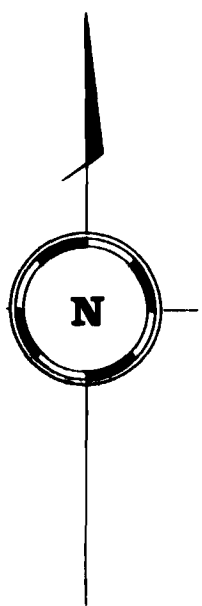
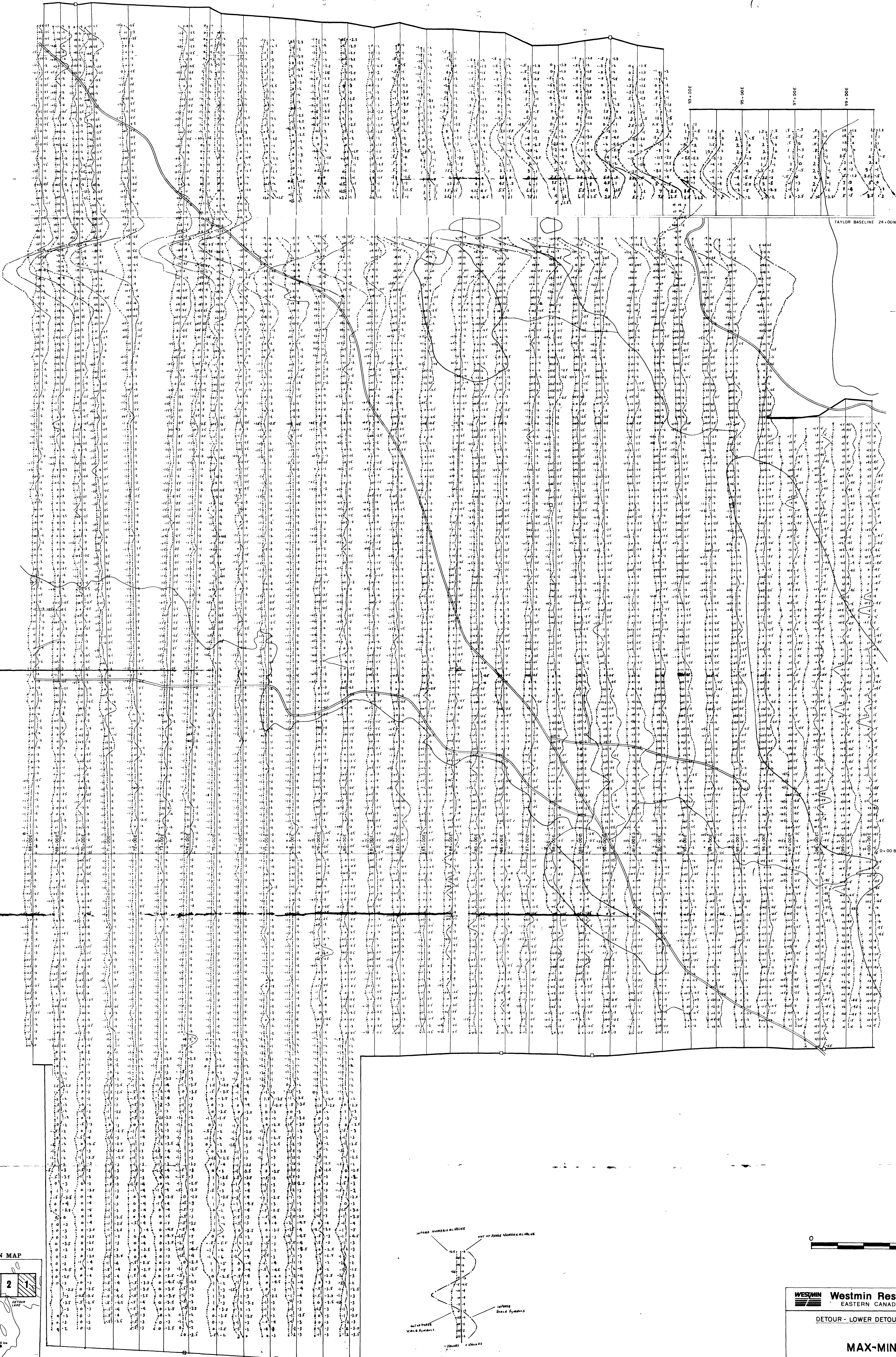
Westmin Resources Limited
EASTERN CANADA MINING DIVISION

DETOUR - LOWER DETOUR LAKE CLAIMS

MAXMIN II CONDUCTORS

Work by J. Betz, Phantom Expl. Scale 1"=5000
Date 1982, 83 NTS 32 E/13

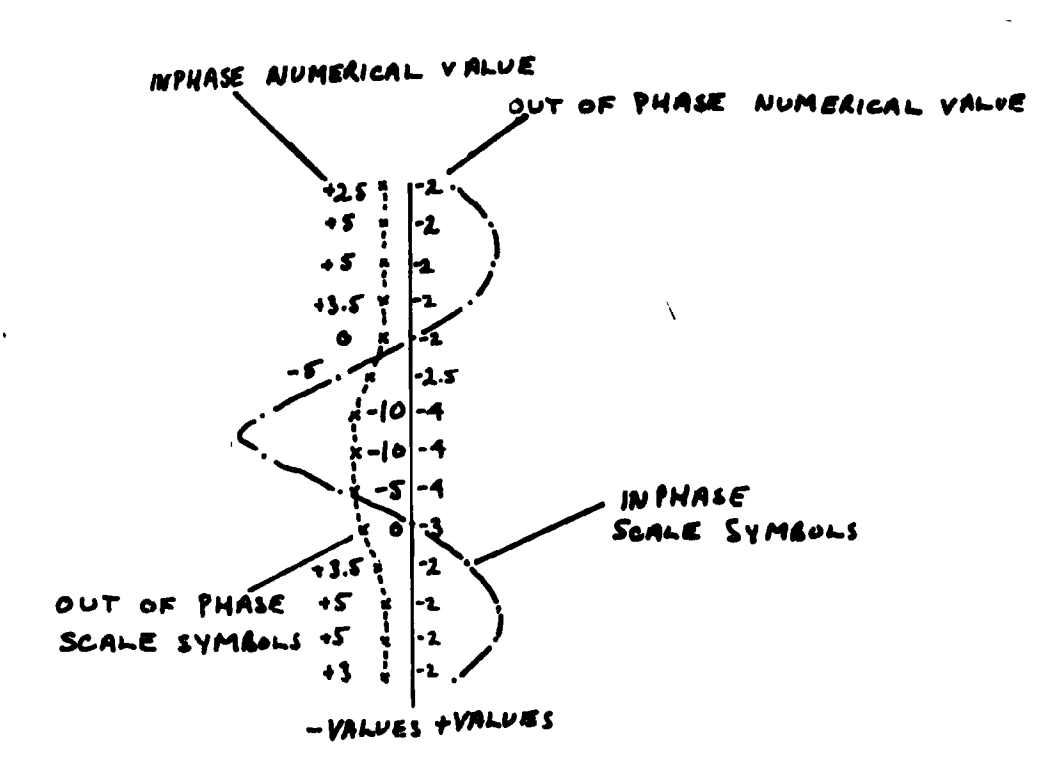
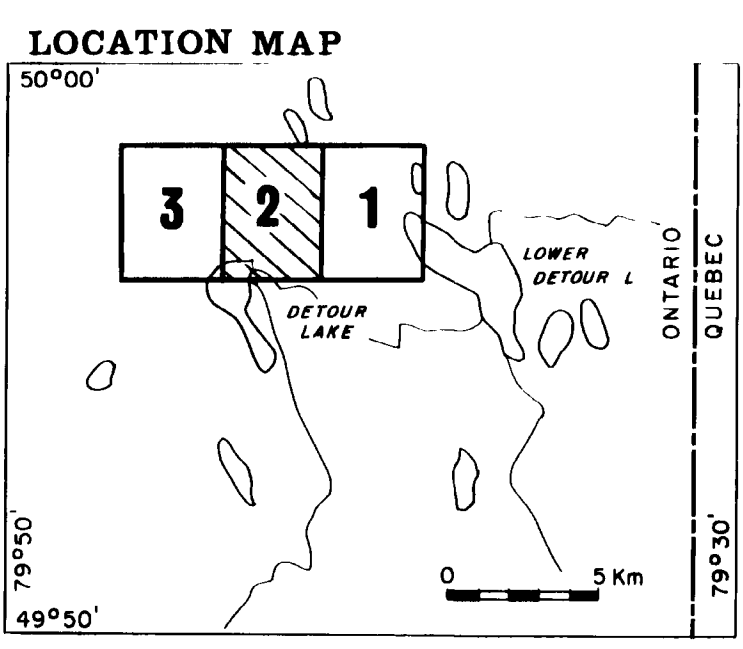
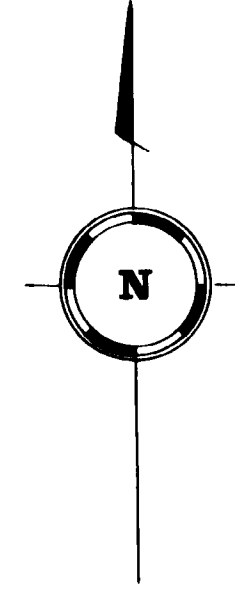
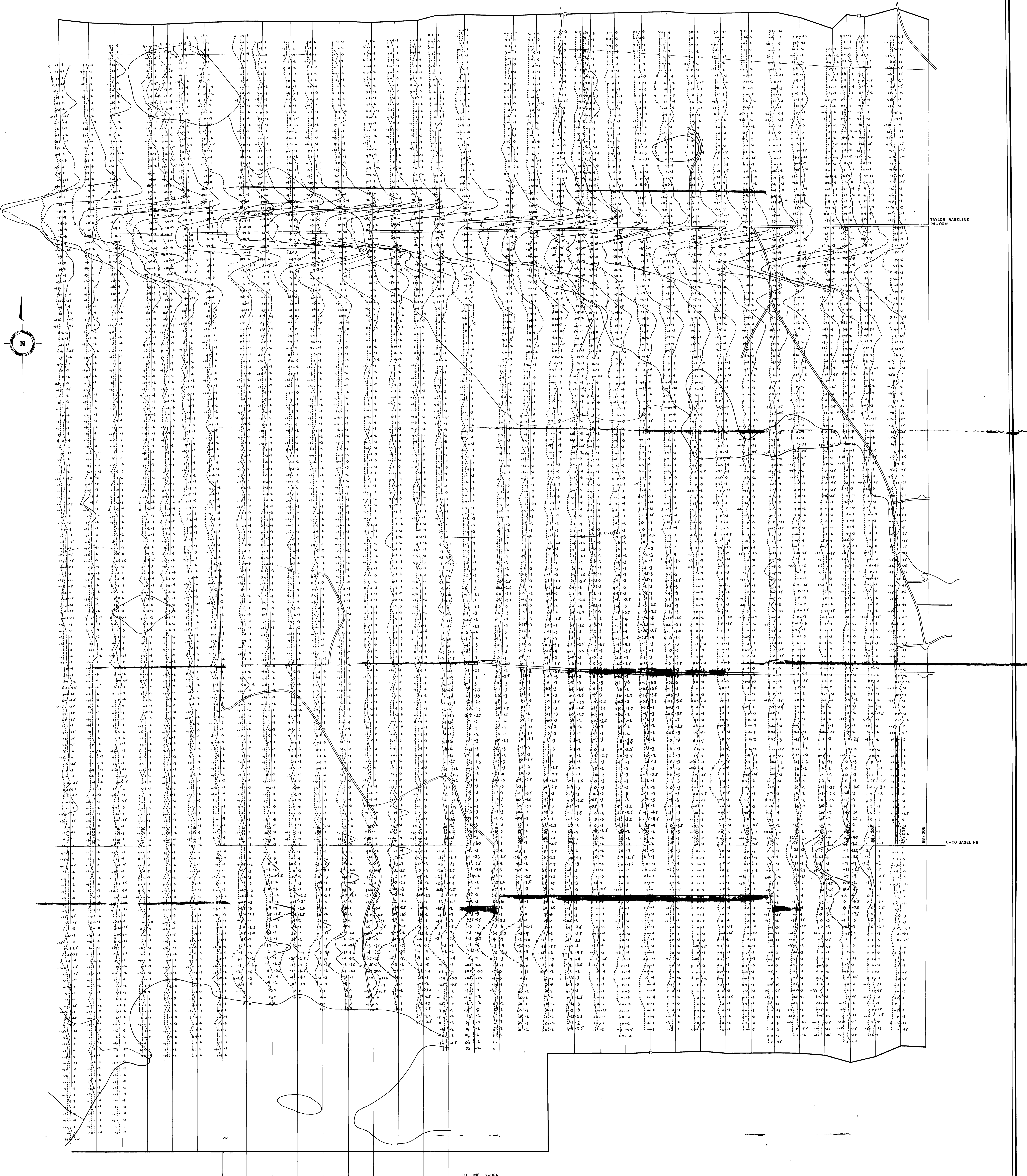




C. Rockwell

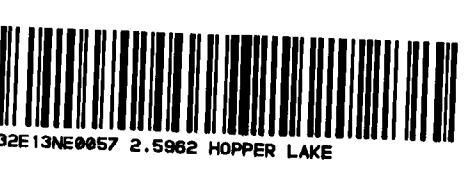
Westmin Resources Limited EASTERN CANADA MINING DIVISION	
DETOUR - LOWER DETOUR LAKE CLAIMS	
MAX-MIN II	
f 222 Hz	
Work by <i>Phantom Expl.</i>	Scale 1:5000
Date 1982, 1983	NTS 32E/13





C. Rockingham

Westmin Resources Limited EASTERN CANADA MINING DIVISION	
DETOUR - LOWER DETOUR LAKE CLAIMS	
MAX-MIN II f222Hz	
Work by Phantom Expt.	Scale 1:5,000
Date 1992, 1993	NTS 32E/13



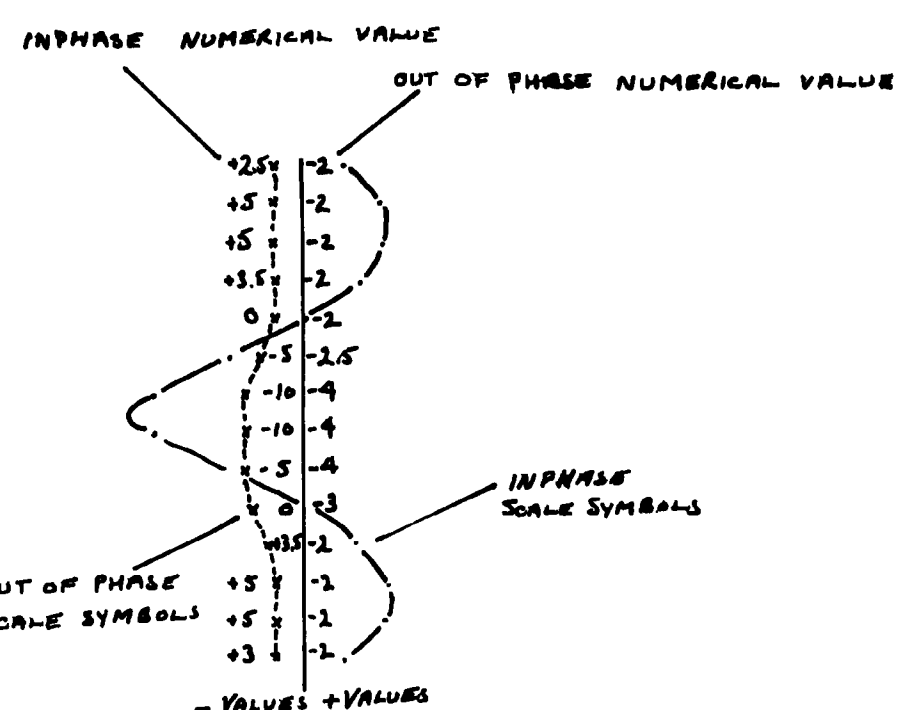
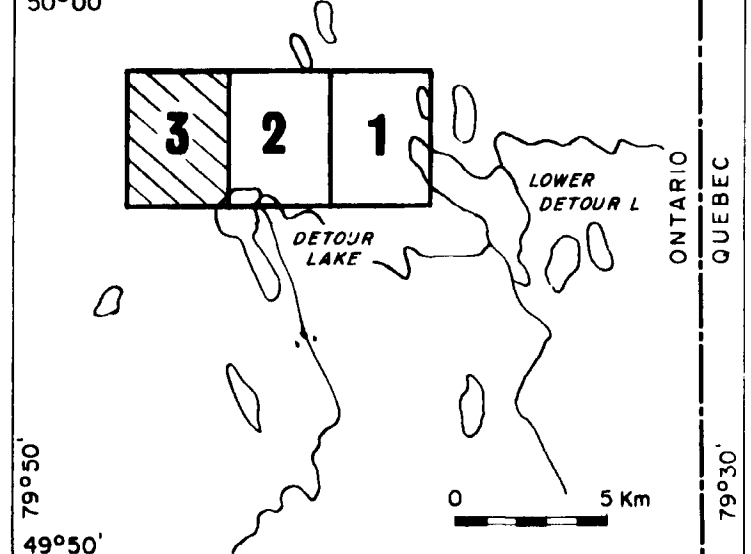
OLD TIE LINE AND BOUNDARY

TAYLOR BASELINE
46.000

BASELINE 0-00

BASELINE
54.000

LOCATION MAP



0 500m

C. Rodigan

Westmin Resources Limited
EASTERN CANADA MINING DIVISION

DETOUR - LOWER DETOUR LAKE CLAIMS

MAX-MIN II

f 222 Hz

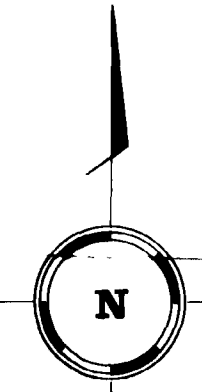
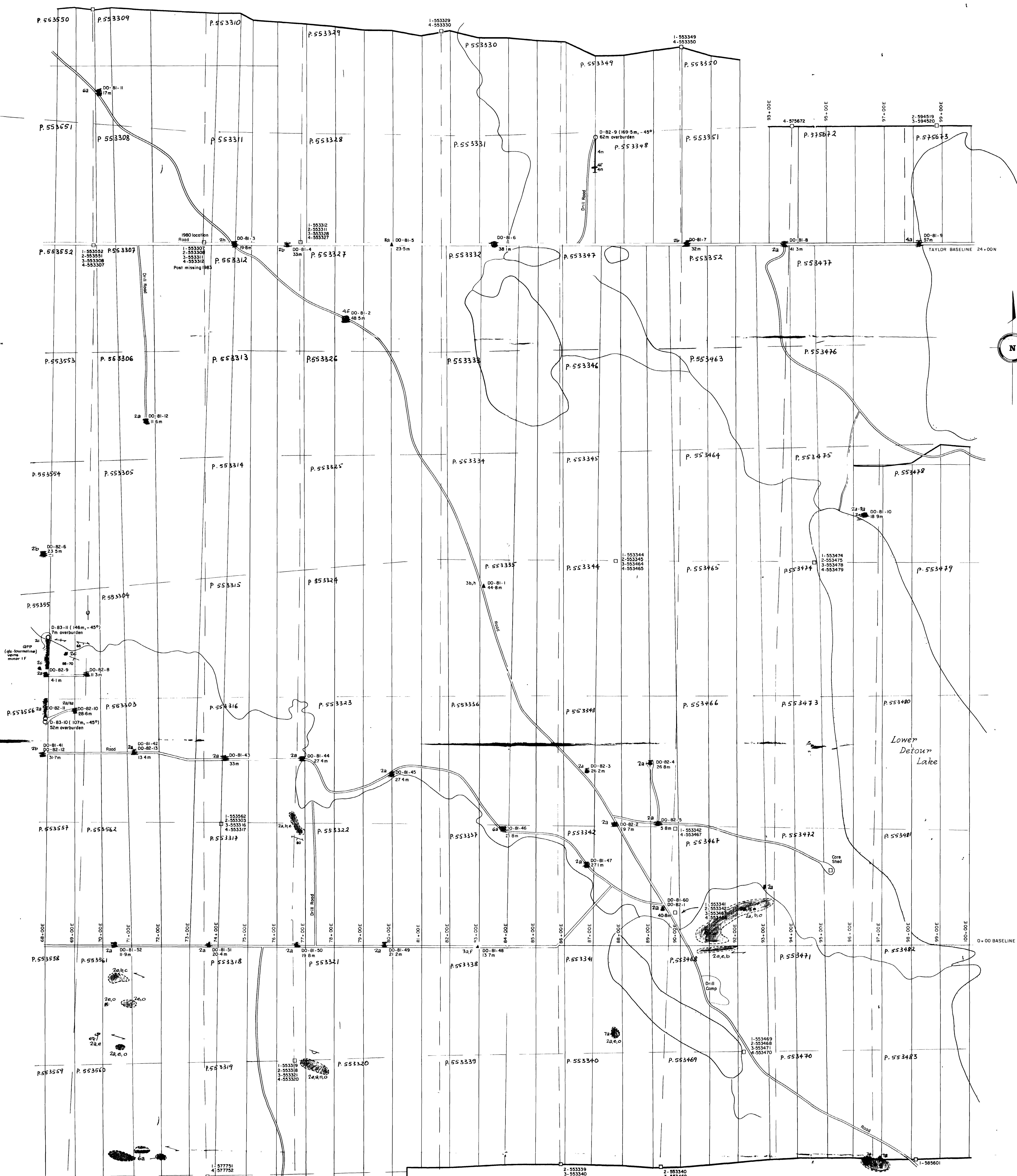
Work by **Phantom Expl.**

Scale 1:5,000

Date **1982.1983**

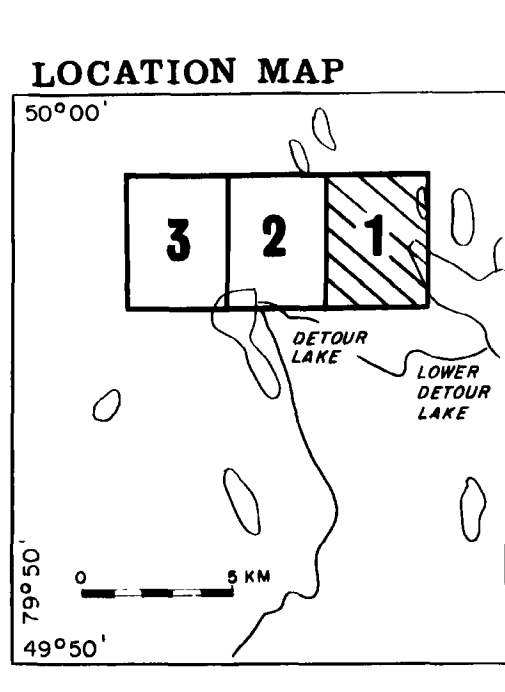
NTS 32 E/13





LEGEND

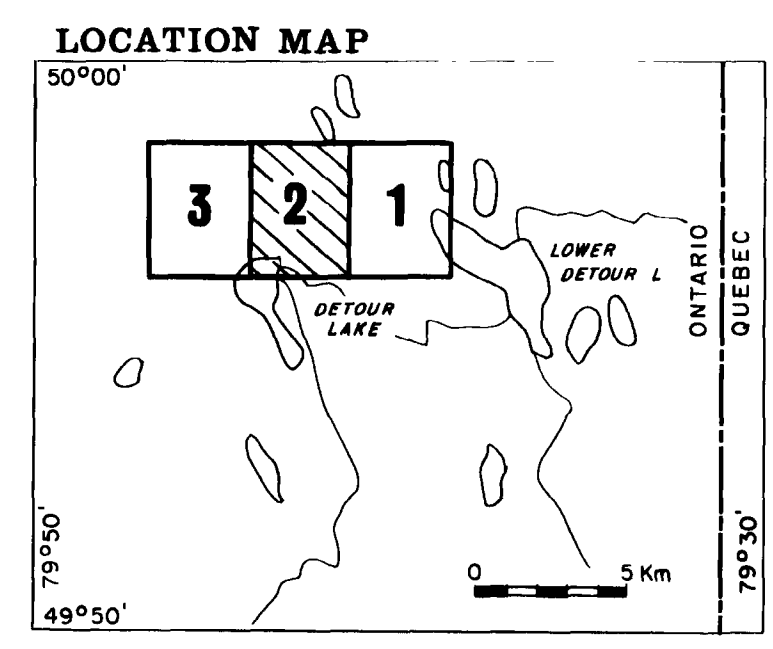
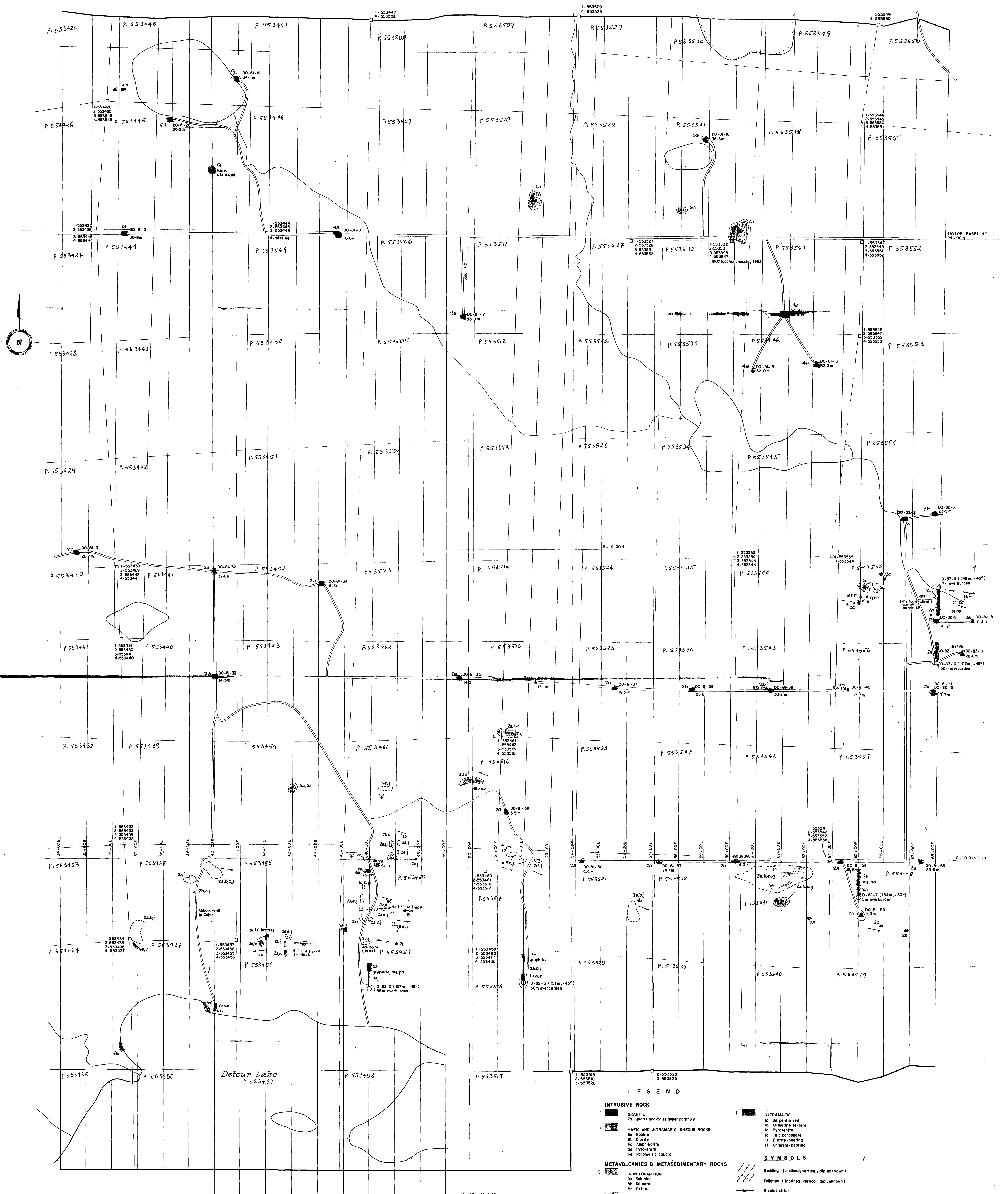
- | | |
|--------------------------------------------------|---------------------------------------------|
| INTRUSIVE ROCK | ULTRAMAFIC |
| 7 GRANITE | 1a Serpentinized |
| 7a Quartz and/or feldspar porphyry | 1b Cummulate texture |
| MAFIC AND ULTRAMAFIC IGNEOUS ROCKS | 1c Pyroxenite |
| 6a Basalt | 1d Talc carbonate |
| 6b Basite | 1e Biotite-bearing |
| 6c Amphibolite | 1f Chlorite-bearing |
| 6d Pyroxenite | |
| 6e Neophytic gabbro | |
| METAVOLCANICS & METASEDIMENTARY ROCKS | SYMBOLS |
| 5 IRON FORMATION | Bedding (inclined, vertical, dip unknown) |
| 5a Sphulrite | Foliation (inclined, vertical, dip unknown) |
| 5b Silicite | Glacial shales |
| 5c Oxide | Pillows (tops known, tops unknown) |
| 4 CLASTIC METASEDIMENTS | Geological outcrops |
| 4a Breccia | Diamond drill hole |
| 4b Conglomerate | Claim post with tag number |
| 4c Bioplastic sediments | Overburden hole |
| 4d Turbidites | Hole failed to reach bedrock |
| 3 FELSIC TO INTERMEDIATE VOLCANICS | Redrock |
| 3a Flow | 5a 40.8 m Hole number |
| 3b Lapilli tuff | 5b 40.8 m Depth of overburden |
| 3c Pyroclastic breccia | |
| 3d Tuff breccia | |
| 3e Pyrophyritic | |
| 3f Hornblende-bearing | |
| 3g Quartz-eyes | |
| 3h Agglomerates | |
| 2 MAFIC TO INTERMEDIATE VOLCANICS | |
| 2a Flow | |
| 2b Lapilli tuff | |
| 2c Autoclastic breccia | |
| 2d Pillow | |
| 2e Amphibolite | |
| 2f Porphyritic/feldspar phenocrysts | |
| 2g Microfoliated | |
| 2h Garnet-bearing | |
| 2i Biotite-bearing | |
| 2j Granitic | |
| 2k Gabbroic textured flow | |
| 2l Vesicular | |
| | Claim boundary |



C. Rockingham

WESTMIN Westmin Resources Limited
 EASTERN CANADA MINING DIVISION
 DETOUR - LOWER DETOUR LAKE CLAIMS
GEOLOGICAL MAP
 Work by *C. Rockingham* Scale 1:5,000
 Date *JUNE 1983* NTS 32E/13 2596.2





LEGEND

INTRUSIVE ROCK	ULTRAMAFIC
1 GRANITE	1a Serpentinized
7a Quartz and/or feldspar porphyry	1b Garnetiferous
MAFIC AND ULTRAMAFIC IGNEOUS ROCKS	1c Pyroxenite
6a Gabbro	1d Olivine clinopyroxene
6b Diorite	1e Biotite-bearing
6c Amphibolite	1f Chlorite-bearing
6d Pyroxenite	1g Porphyritic gabbro
6e Porphyritic gabbro	
METAVOLCANICS & METASEDIMENTARY ROCKS	SYMBOLS
5 IRON FORMATION	Bedding (inclined, vertical, dip unknown)
5a Sulphide	Foliation (inclined, vertical, dip unknown)
5b Silicite	Glacial striae
5c Oxide	Pilows (tops known, tops unknown)
CLASTIC METASEDIMENTS	Geological outcrops
4a Greywacke	Diamond drill hole
4b Conglomerate	Cl + post with tag number
4c Graphitic sediments	Overburden hole
4d Tuffaceous	Hoe failed to reach bedrock
FELSIC TO INTERMEDIATE VOLCANICS	Bedrock
3a Flow	5B DO-BI-2 Hole number
3b Tuff	40-8m Depth of overburden
3c Lapilli tuff	[P.553460] Claim boundary
3d Pyroclastic breccia	
3e Tuff breccia	
3f Porphyritic	
3g Garnet-bearing	
3h Quartz veins	
3i Agglomerates	
MAFIC TO INTERMEDIATE VOLCANICS	
2a Flow	
2b Tuff	
2c Amphibolite breccia	
2d Pilow	
2e Amphibolite	
2f Porphyritic/feldspar phenocrysts	
2g Recrystallized	
2h Garnet-bearing	
2i Biotite-bearing	
2j Variscite	
2k Gabbroic textured flow	
2l Veicular	

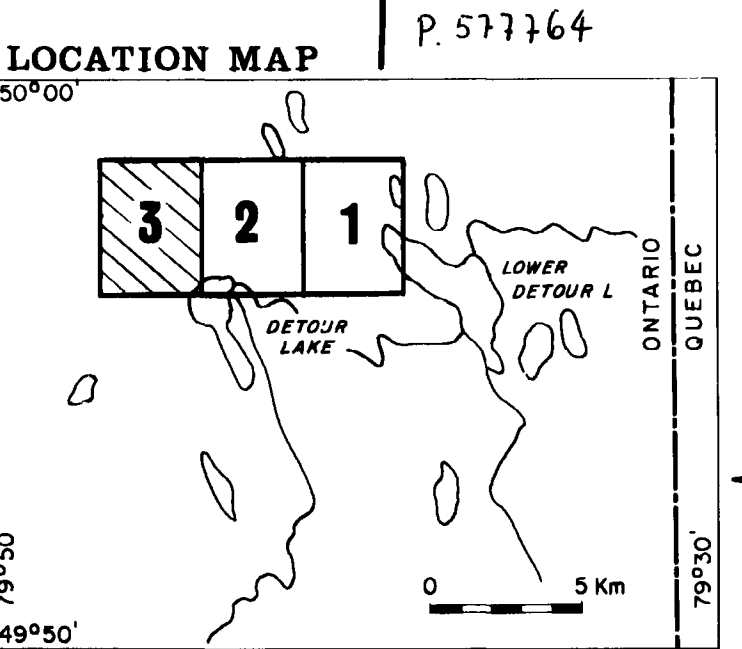
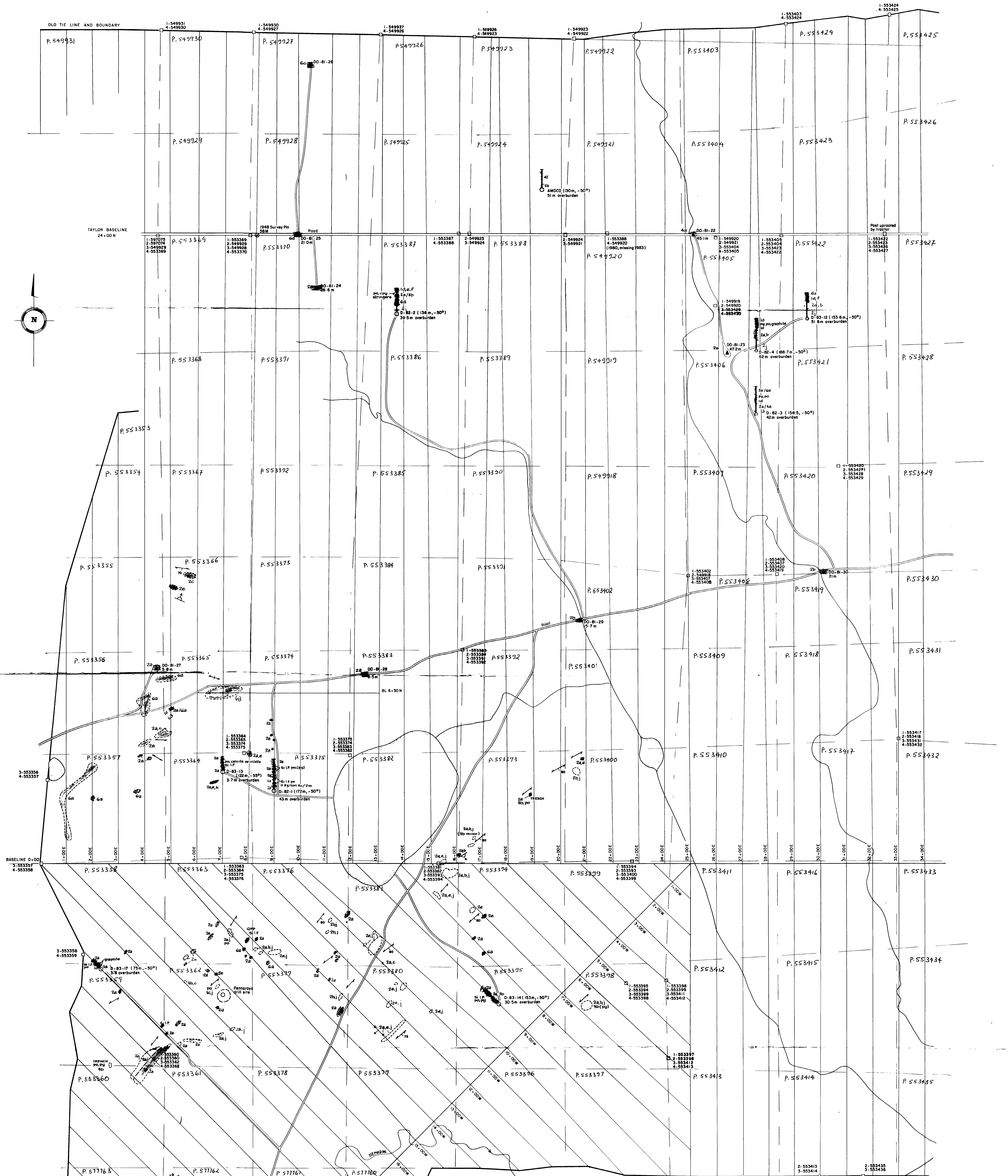
C. Rodighiero

Westmin Resources Limited
EASTERN CANADA MINING DIVISION

DETOUR - LOWER DETOUR LAKE CLAIMS

GEOLOGICAL MAP

Work by *C. Rodighiero* Scale 1:5000
Date *June 1983* NTS 32E/13 *25923*



LEGEND

<p>INTRUSIVE ROCK</p> <p>7 GRANITE 7a Quartz and/or feldspar porphyry</p> <p>8 MAFIC AND ULTRAMAFIC IGNEOUS ROCKS 8a Basalt 8b Diorite 8c Amphibolite 8d Pyroxenite 8e Porphyritic gabbro</p> <p>METAVOLCANICS & METASEDIMENTARY ROCKS</p> <p>5 IRON FORMATION 5a Sulphide 5b Silicate 5c Oxide</p> <p>4 CLASTIC METASEDIMENTS 4a Greywacke 4b Conglomerate 4c Graphitic sediments 4d Turbidites</p> <p>FELSIC TO INTERMEDIATE VOLCANICS</p> <p>3a Flow 3b Tuff 3c Lapilli tuff 3d Pyroclastic breccia 3e Tuff breccia 3f Porphyritic 3g Garnet-bearing 3h Quartz veins 3i Agglomerates</p>	<p>2 MAFIC TO INTERMEDIATE VOLCANICS 2a Flow 2b Tuff 2c Lapilli tuff 2d Andesitic breccia 2e Pillow 2f Amphibolite 2g Porphyritic/feldspar phenocrysts 2h Recrystallized 2i Garnet-bearing 2j Biotite-bearing 2k Melilitic 2l Subvolcanic tuff 2m Vesicular</p> <p>1 ULTRAMAFIC 1a Serpentinized 1b Columnar texture 1c Pyroxenite 1d Silic carbonates 1e Biotite-bearing 1f Chlorite-bearing</p> <p>SYMBOLS</p> <p>Bedding (inclined, vertical, dip unknown) Foliation (inclined, vertical, dip unknown) Glacial strike</p>	<p>Y-Y Pillows (tops known, tops unknown)</p> <p>Geological outcrop</p> <p>Dial and drill hole</p> <p>Claim post with tag number</p> <p>Overburden hole</p> <p>Hole failed to reach bedrock</p> <p>Claim boundary</p>
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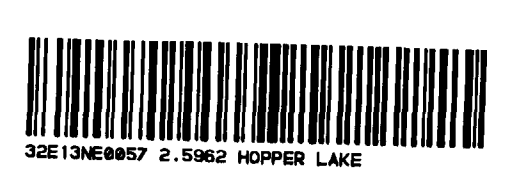
C. Rockingham

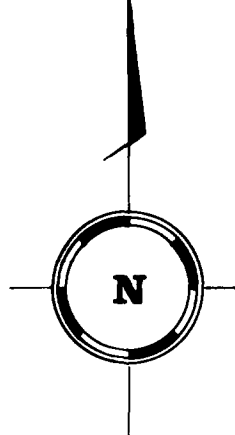
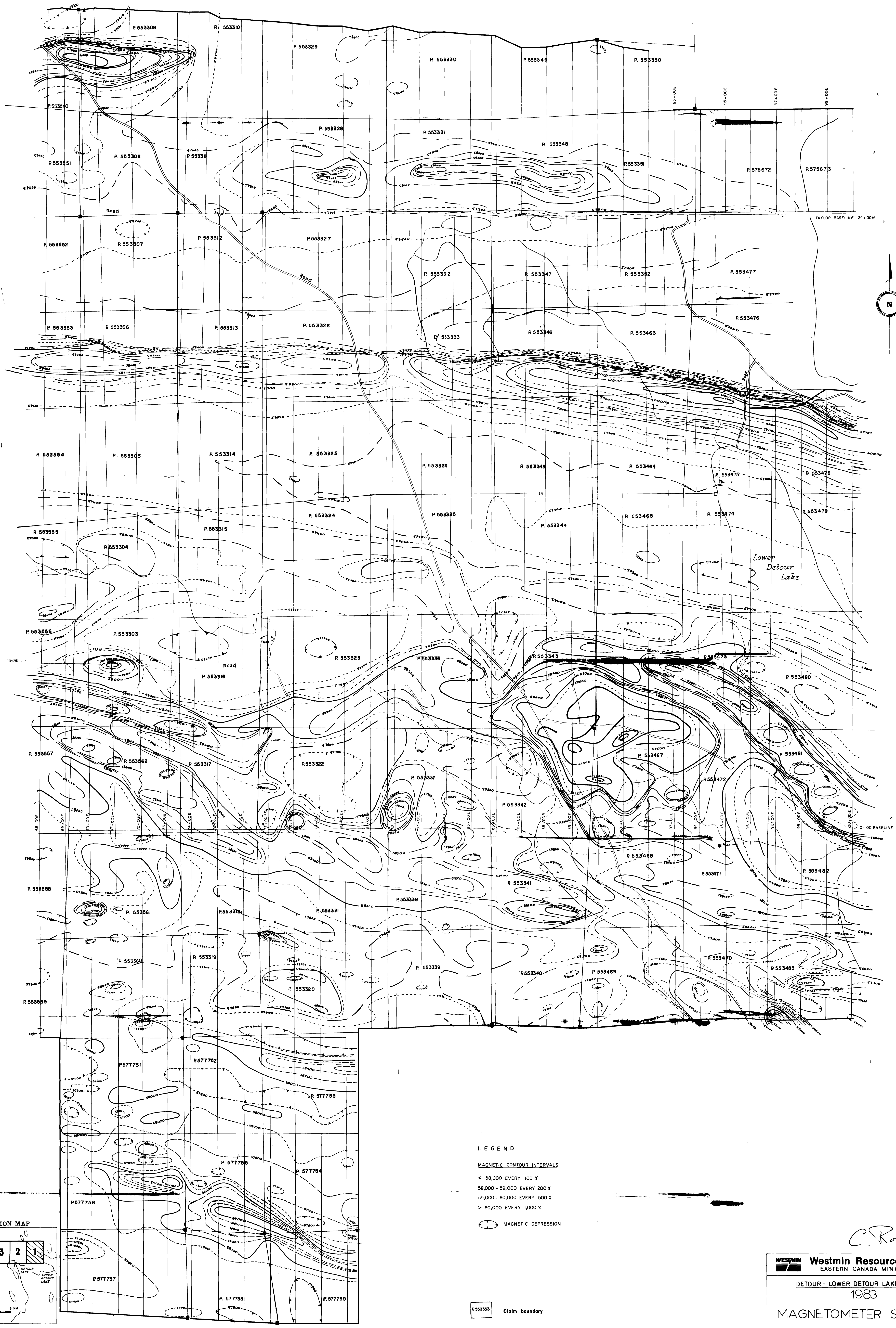
Westmin Resources Limited
EASTERN CANADA MINING DIVISION

DETOUR - LOWER DETOUR LAKE CLAIMS

GEOLOGICAL MAP

Work by <i>C. Rockingham</i>	Scale 1:5000
Date <i>June 1983</i>	NTS 32 E/13 25764





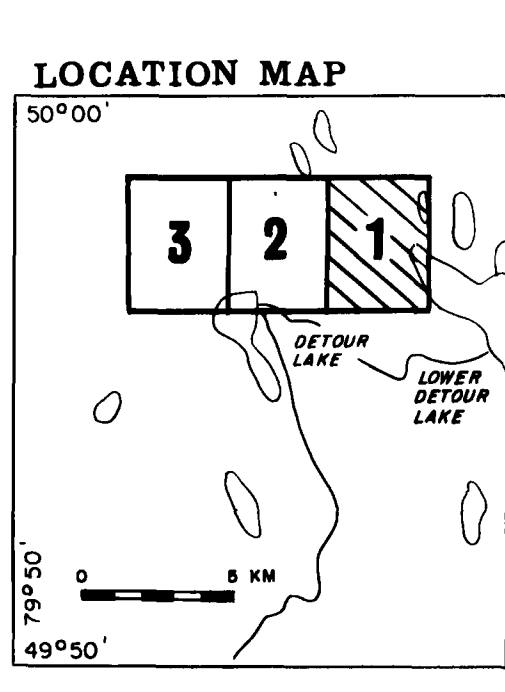
LEGEND

MAGNETIC CONTOUR INTERVALS

- < 58,000 EVERY 100 Y
- 58,000 - 59,000 EVERY 200 Y
- 59,000 - 60,000 EVERY 500 Y
- > 60,000 EVERY 1,000 Y

○ MAGNETIC DEPRESSION

□ Claim boundary



C. Rodolph

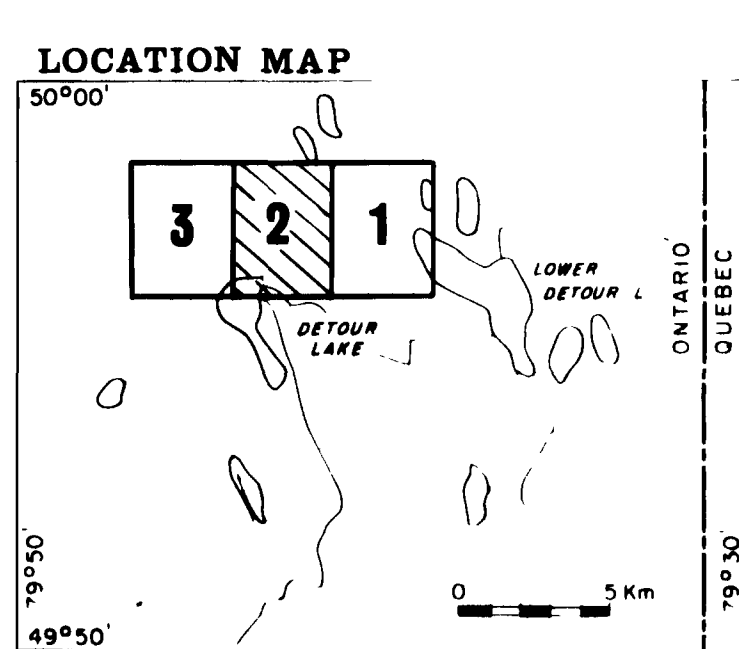
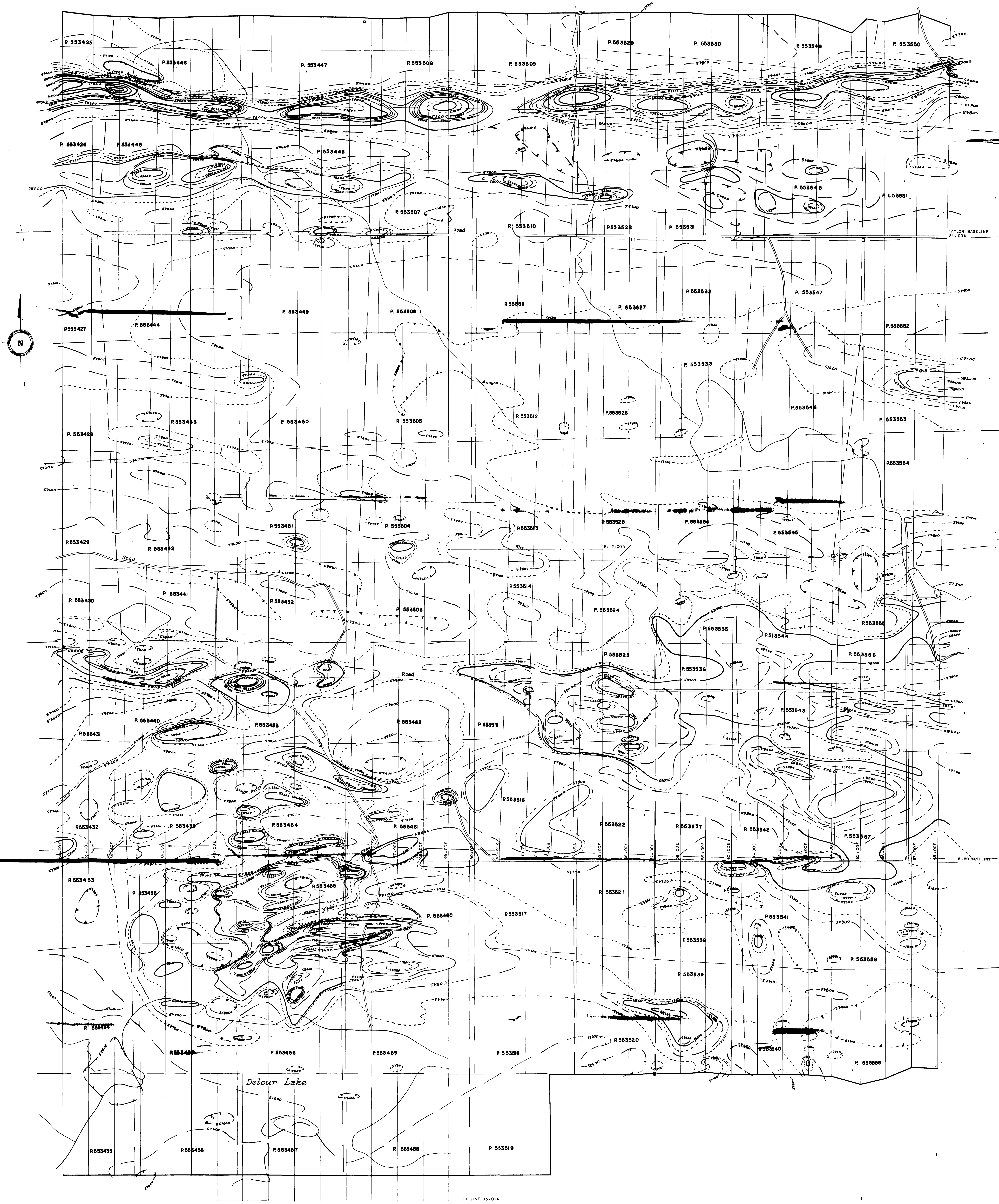
Westmin Resources Limited
 EASTERN CANADA MINING DIVISION

DETOUR - LOWER DETOUR LAKE CLAIMS
 1983

MAGNETOMETER SURVEY

Work by J.A.K., D.C.K. & C.J.R. Scale 1:5,000
 Date Feb - March, 1983 NTS 32E/13





- LEGEND**
- MAGNETIC CONTOUR INTERVALS
- < 58,000 EVERY 100 Y
 - 58,000 - 59,000 EVERY 200 Y
 - 59,000 - 60,000 EVERY 500 Y
 - > 60,000 EVERY 1,000 Y
- MAGNETIC DEPRESSION
- P.553431 Claim boundary

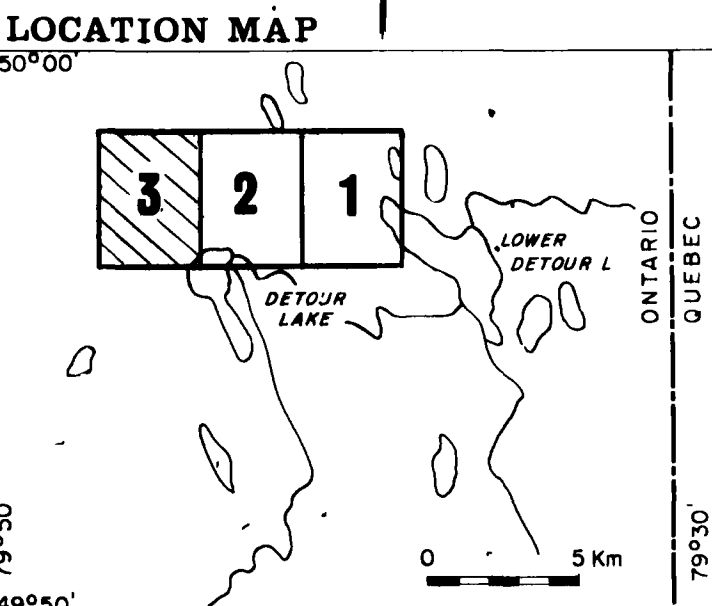
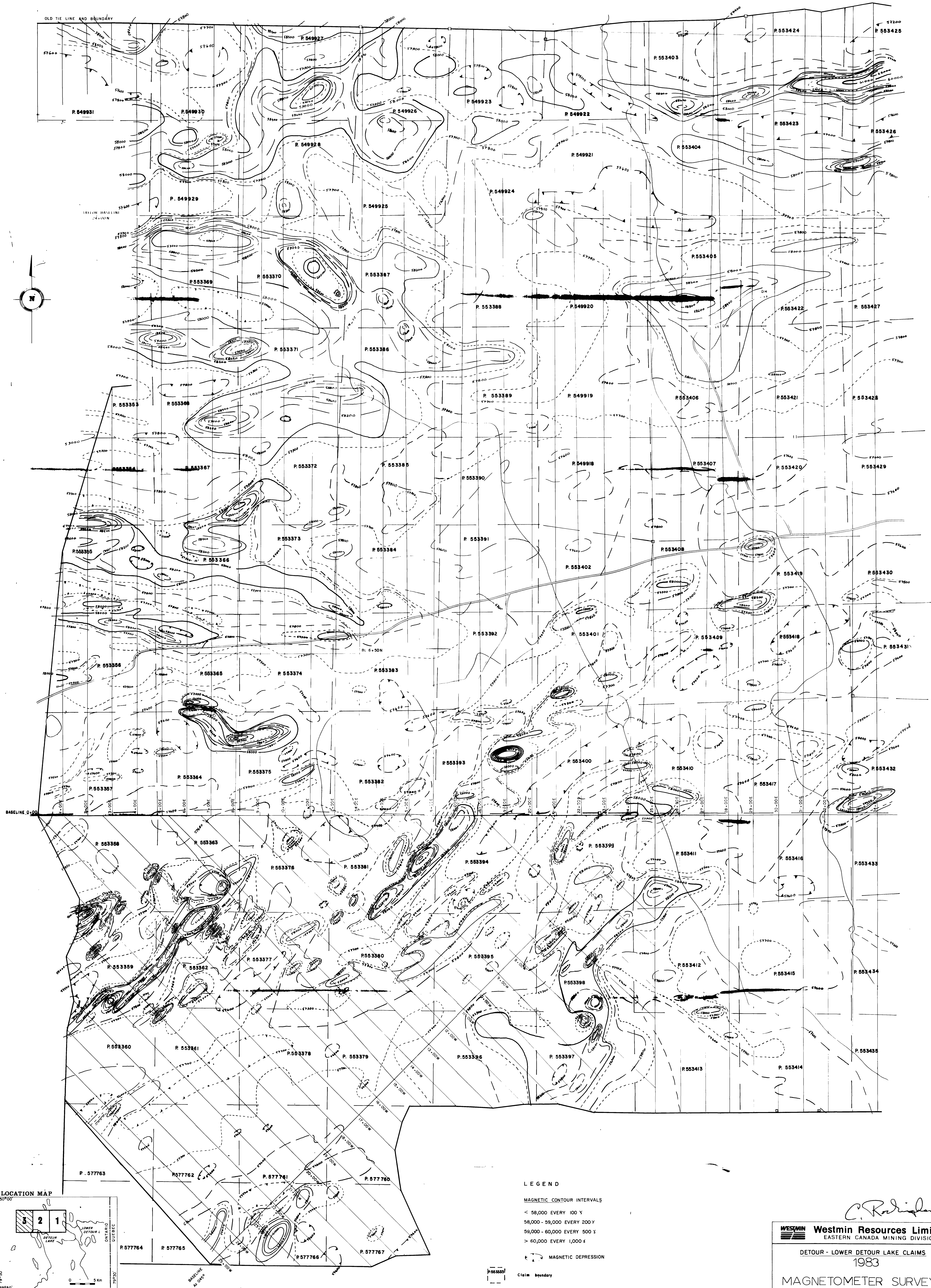
C. Radin

WESTMIN Westmin Resources Limited
EASTERN CANADA MINING DIVISION

DETOUR - LOWER DETOUR LAKE CLAIMS
1983

MAGNETOMETER SURVEY

Work by J.A.K., D.C.K.C. & C.J.R. Scale 1:5000
Date Feb - March, 1983 NTS 32E/13



LEGEND

MAGNETIC CONTOUR INTERVALS

- < 58,000 EVERY 100 Y
- 58,000 - 59,000 EVERY 200 Y
- 59,000 - 60,000 EVERY 500 Y
- > 60,000 EVERY 1,000 Y

⊖ MAGNETIC DEPRESSION

— Claim boundary

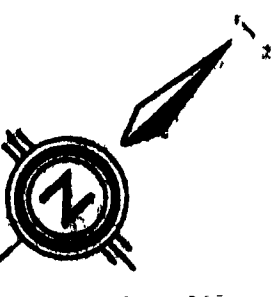
C. Radin

WESTMIN Westmin Resources Limited
 EASTERN CANADA MINING DIVISION

DETOUR - LOWER DETOUR LAKE CLAIMS
 1983

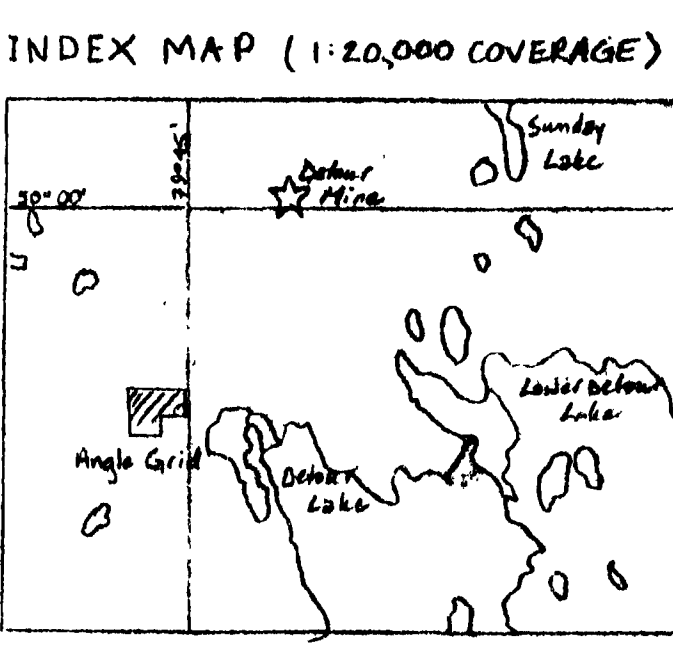
MAGNETOMETER SURVEY

Work by: J.A.K., D.C.K. & C.J.R. Scale 1:5000
 Date Feb-March, 1983 NTS 32E/13



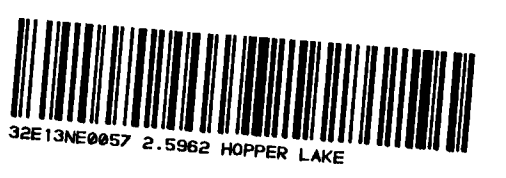
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5+00N
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2+00N
1+00N
BASELINE
1+00S
2+00S
3+00S
4+00S
5+00S
6+00S
7+00S
8+00S
9+00S

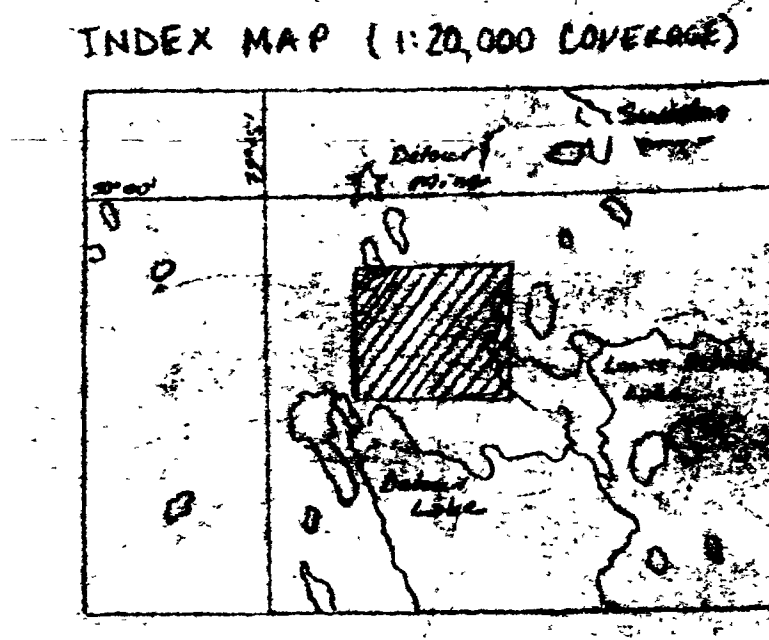
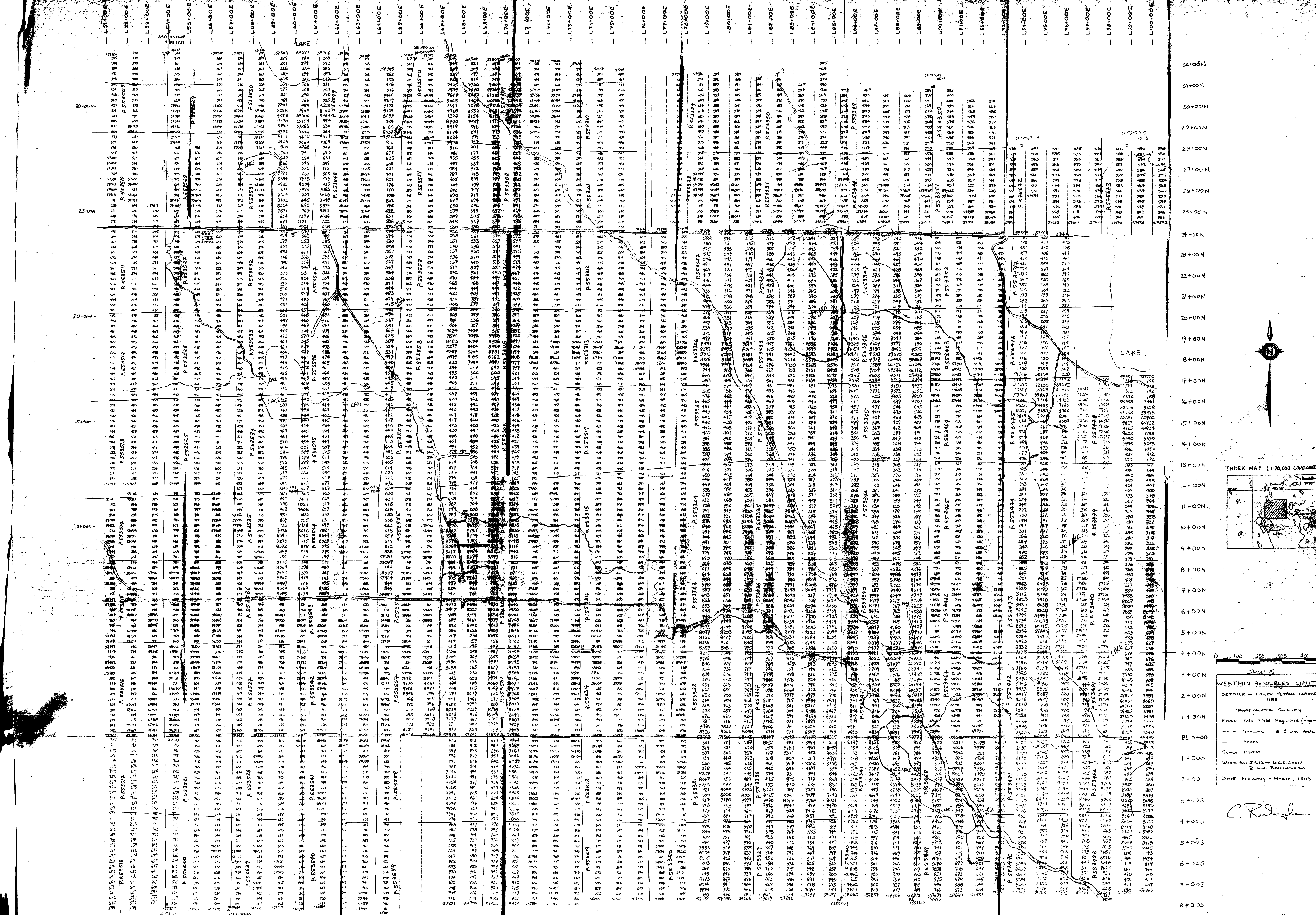
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Scale 1:20,000
Work By: D.C.K. Chen
Date: February, 1993

C. Rodriguez

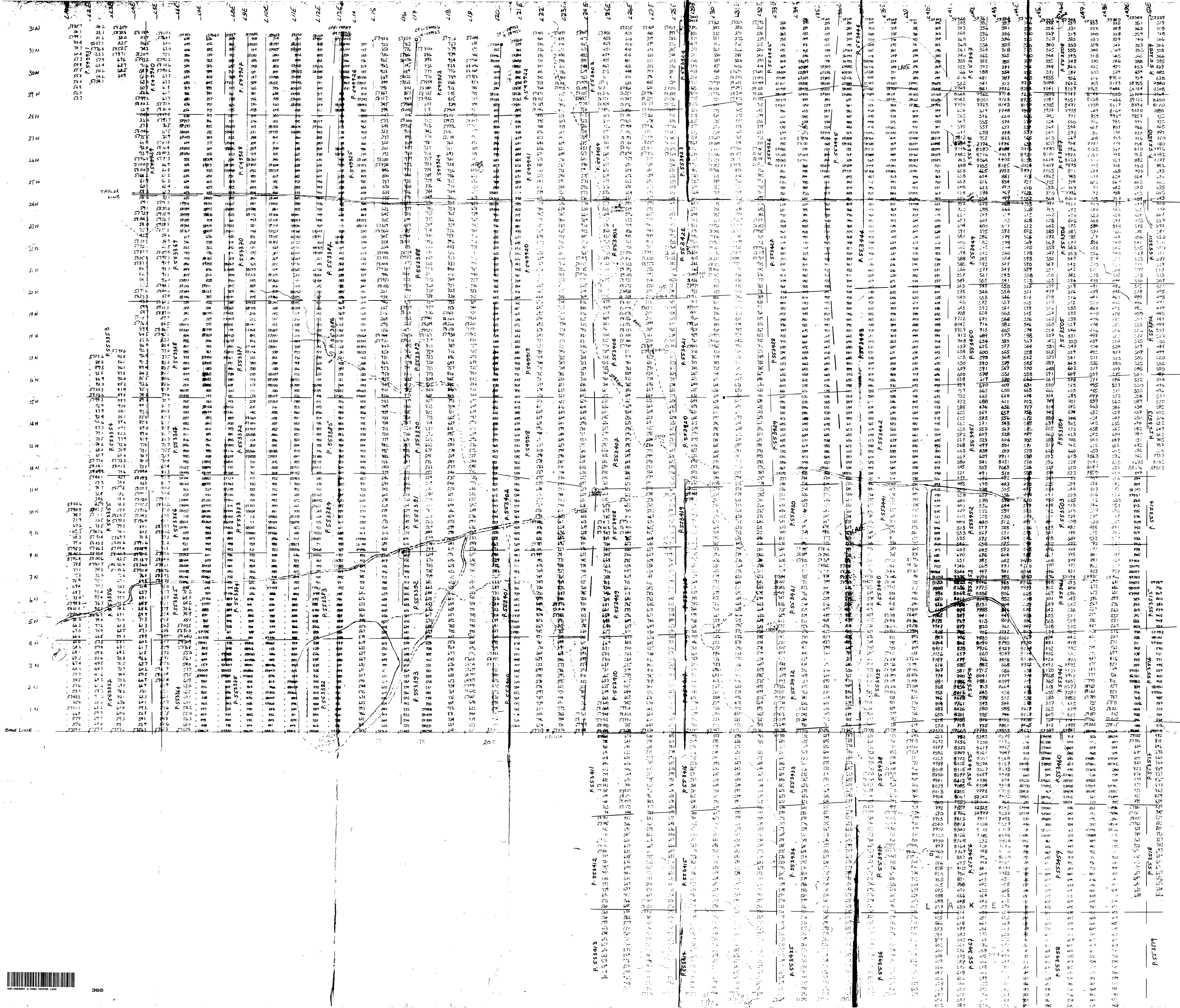


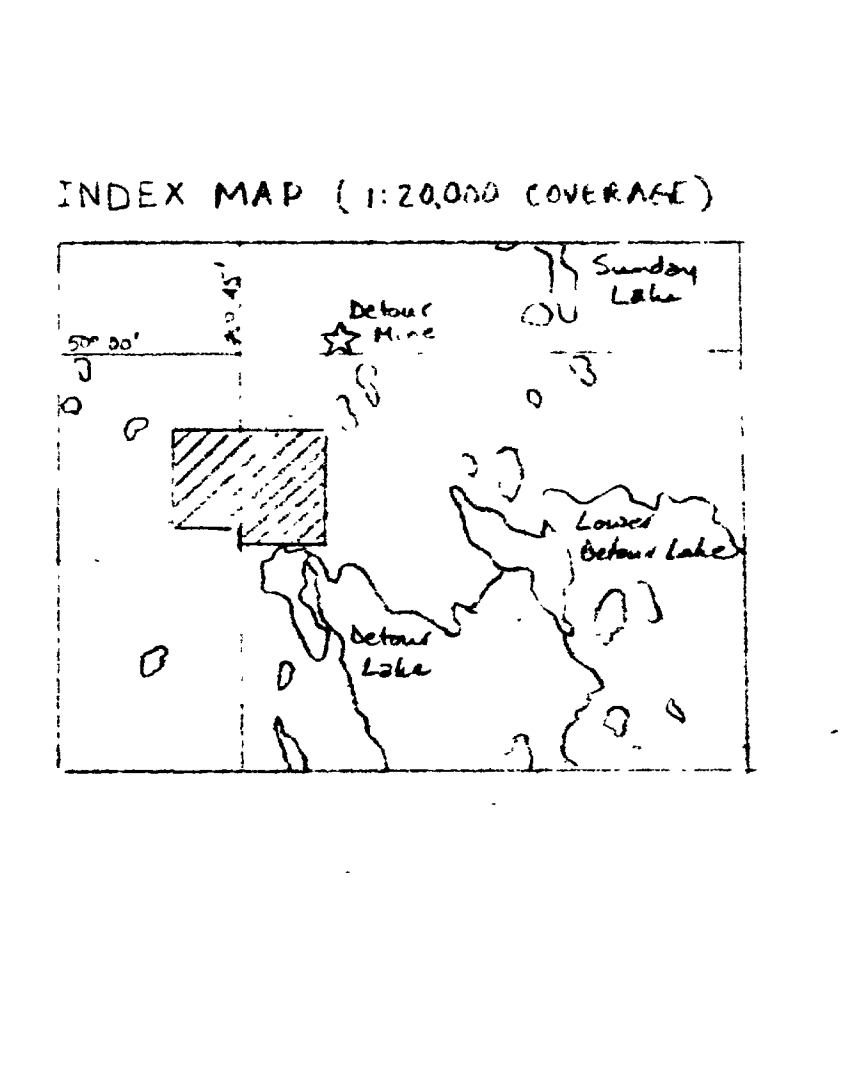


Sheet 5
WESTMIN RESOURCES LIMITED
DETROUR - LOWER DETROUR CLAIMS
1983
Magnetometric Survey
5000 Total Field Magnetics (gamma)
--- Stream ■ Claim Area
— Roads
Scale: 1:5000
Work By: J. Deane, D. K. K. & Co.
Date: February - March, 1983

C. R. ...

25962



INDEX MAP (1:20,000 COVERAGE)


100 200 300 400 500 m

Sheet 6
 WITHIN RESOURCES LIMITED
 DETOUR - LOWER DETOUR CLAIMS
 1983
 MAGNETOMETER - INCLUDY
 1000 Total Field Magnetics (in gammas)
 --- Streams --- Claim Ticks
 --- Road ---
 Scale: 1:5000
 Drawn By: J.A. Kent, D.C.K. Chen & C.J. Robinson
 Date: February - March, 1983
 C. Radtke



25960