



32L04SE9396 2.6256 SUNDAY LAKE

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MINING LANDS SECTION

Westmin Resources Limited
Sunday Lake Claim Group
Ground Magnetometer Survey
Assessment Report

Claims: P.549852 - 549891 inclusive
P.553663 - 553669 inclusive
P.553745 - 553759 inclusive
P.609948 - 609951 inclusive

NTS 32-L-4

Sunday Lake Area M.3003

Paul R. J. Nicholls, B.Sc., P.Eng.

December 12, 1983.



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org

Introduction:

The following reports pertain to ground magnetic data collected by Westmin Resources Limited (25 Adelaide Street East, Suite 1400, Toronto, Ontario. M5C 1Y2), in 1982 and 1983 on the Sunday Lake Claims, Sunday Lake Area (M.3003), Porcupine Mining District, Ontario. A picket line grid was cut cover the eastern portion of the Claims (Lines 42+100 to 64+100E) in 1982 and this grid was extended to the west in 1983. The Magnetometer Surveys were completed in February 1982, and in February and June, 1983. Approximately 116 kilometers of magnetometer surveys were completed on the property.

Location, Access and Topography:

The Sunday Lake claims are located in Northern Ontario (latitude 50°00'N, longitude 79°35'W, NTS 32 L4) approximately 140 kilometers north of the towns of Cochrane, Ontario and La Sarre, Quebec (Figure 1).

In the past, access to the property has been by helicopter or fixed-wing aircraft from La Sarre or Cochrane in the summer and by winter road from La Sarre in the winter. An all-weather road will be completed to the Detour Lake Mine late in 1983.

Topographic relief on the property is generally less than 10 meters with much of the eastern part of the property covered by muskeg. The central portion of the property is traversed by two small rivers with drainage to the south. Mature forest of spruce and poplar cover the western part of the claim group.

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 (Appendix 1).



Westmin Resources Ltd.

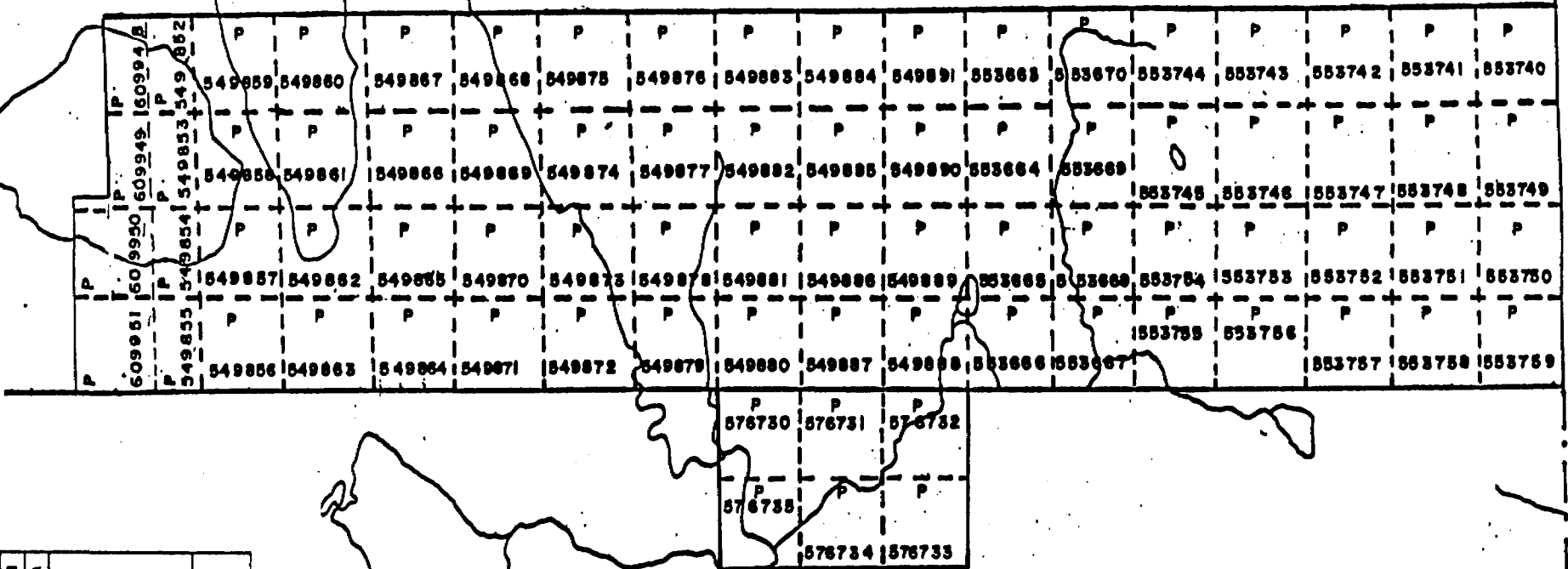
LOCATION MAP
DETOUR PROJECT



Scale: 1:9,400,000.00

Figure 1

SUNDAY LAKE



Quebec
Ontario



Area covered by ground
magnetometer survey

Figure 2

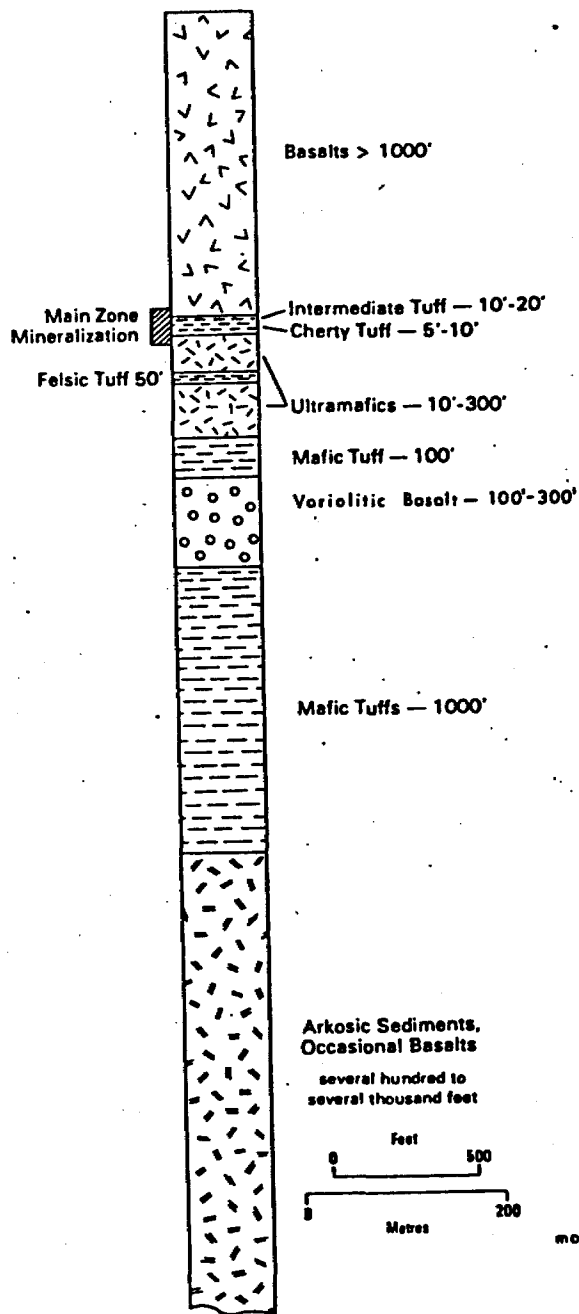
<p>Westmin Resources Limited EASTERN CANADA MINING DIVISION</p>	
<p>Sunday Lake Claims</p>	
Work by	Scale 1:31,680
Date	NTS 32 L-4

Regional Geology:


The Detour Project Area is located in the northern part of the Archean Abitibi greenstone belt of the Superior Structural Province. This part of the greenstone belt is folded into a major east-west striking anticline. The core of the anticline is a thick sequence of turbiditic wackes. The northern limb of the anticline is composed primarily of basalts with two known sub-volcanic intrusives. While the southern limb appears to be more complex with two major volcanic units and minor units of volcanic conglomerate, graphitic sediments, and ultramafic rocks.

The Detour Lake Mine and the Sunday Lake claims are located on the northern limb of the anticline. Extensive drilling in the mine area has defined the volcanic stratigraphy of the northern limb (Jackson, 1980).

Arkosic sediments and felsic volcanics represent the basal sequence and are overlain by mafic tuffaceous rocks and minor sediments (300 meters). The mafic tuffs are overlain by a sequence of variolitic mafic volcanics (90 meters) and a second horizon of mafic tuffs (30 meters). A thin layer (3 - 90 meters) of ultramafic flows and tuffs overlies the mafic tuffs and is in turn overlain by a thin continuous cherty tuff horizon. The uppermost unit is a thick sequence of basalts. The Au deposit is centred on the cherty tuff horizon.



modified after Johns, 1982

	Westmin Resources Limited EASTERN CANADA MINING DIVISION	
	Stratigraphic Section Detour Mine Area, Ontario Figure 3	
Work by	Scale	
Date	NTS	

List of Personnel:

	<u>Dates</u>	<u>Address</u>	<u>Duties</u>
Richard Evoy	February, 1982 June, 1983	103 Pageant Drive, Sault Ste. Marie, Ontario. P6B 5J7.	Magnetometer Operator
Doug Chen	February, 1983	280 Wellesley St. E., Toronto, Ontario. M4X 1G7.	"
Jennifer Kent	February, 1983	86 Catalina Drive, Scarboro, Ontario. M1M 1K8.	"
Doug Kolb	June, 1983	1325 Highway Ave., London, Ontario. N5Y 1B7.	"
Chris Rockingham	June, 1983 February, 1983	261 Booth Avenue, Toronto, Ontario. M4M 2M7.	Supervisor and magnetometer operator.
Paul R. J. Nicholls	June, 1983 October, 1983	40 Albert St. South, Box 1605, Stouffville, Ontario. LOH 1L0.	Supervisor, data inter- pretation and report writing.

Appendix 1

EDA PPM-300 Omnimag Field Magnetometer
and
PPM-400 Omnimag Base Station Magnetometer

PPM-300

OMNIMAG MAGNETOMETER

Physical Dimensions

Width
Depth
Height
Weight (complete with 7.5 kg
Integral sensor pole
and back pole)
Weight (not including 8.5 kg
remote sensor)

Environment

Electronics

Operating temperature .. -40°C to +50°C
range
Relative Humidity 95% (rain proof)

Sensor

Temperature range -40°C to +50°C
Relative Humidity 0 to 99% (rain proof)

Principal Components

Sensor Noise cancelling with at least 50 dB
attenuation of external noise field.
Faraday shield incorporated. Magnetic
cleanliness of the sensor is consistent
with the absolute accuracy of $\pm 0.1 \gamma$.
Sensor cable There are no external cables on in-line
sensor. Remote sensor includes cable
and interface connector.

Table 1-1 Technical Summary (Sheet 1 of 4)

Electronic Console Enclosure contains complete
microprocessor and battery pack. Front
panel includes liquid crystal display
(LCD), keypad and MODE selector.
Reference oscillator Annual drift rate of 2 ppm.
Temperature drift 5 ppm over the
temperature range of -10°C to
+40°C.
Power supply Internal battery pack.

Specifications

Dynamic range 18,000 to 93,000 γ
Processing sensitivity $\pm 0.02 \gamma$
(total field)
Statistical error..... 0.01 γ
resolution
Mathematical truncation .. $\pm 0.02 \gamma$
error
Absolute accuracy ± 15 ppm at 23°C
50 ppm over operating temperature
range.
Display resolution 0.1 γ
(total field)
Automatic tuning $\pm 15\%$ of least value
Tuning method Keyboard entry provides tuning
increments of 1 γ from 18,000 to
93,000 γ . Microprocessor sets correct
tuning frequency.
Tracking range 18,000 to 93,000 γ
Tuning mechanism Sensor is tuned under microprocessor
control.

Table 1-1 Technical Summary (Sheet 2 of 4)

PPM-300

OMNIMAG MAGNETOMETER

Out of auto-tuning range indicator	Descriptor on display (TUNE) commences to flash on and off. Audio alarm activated also. (New field value must be entered into system.)
Sampling rate	Actuated by keyboard command by a +2.5 V logic level. Continuous sampling at maximum rates of 3.5 seconds.
Display	A single liquid crystal display (LCD) Indicator monitors the true RMS value of the precession signal and decay rate. Ruggedized, reflective LCD utilizing aluminum reflector. Temperature range -35°C to +50°C at 100% RH. Clear visibility.
Visual	Six-digit readout with decimal point. Character height: 0.700 in.
Display Readouts	Refer to Table 4-3.
Total field (γ)	52677.8 (From 18,000 to 93,000)
Error (γ)	
Time	H16:36:33
Date	81:08:19
Gradient	Applicable to PPM-500 only
Line (Longitude) (main grid)	L1000 (From 0 to ±9999)
Position (Latitude) (main grid)	P500 (From 0 to ±9999)
Line spacing (main grid)	INTV L 99 (From 0 to ±9999)
Position spacing (main grid)	INTV P 88 (From 0 to ±9999)

Table 1-1 Technical Summary (Sheet 3 of 4)

Line (sub-grid)	L(Flashing) 1000 (From 0 to ±9999)
Position (sub-grid)	P(Flashing) 500 (From 0 to ±9999)
Line spacing (sub-grid)	INTV L(Flashing) 1000 (From 0 to ±9999)
Position spacing (sub-grid)	INTV P(Flashing) 500 (From 0 to ±9999)
Record data block number	RP 52677.8
Manual record	Last position number on main or sub-grid.
Auto increment record	Current position number (main or sub-grid) incremented automatically by the pre-programmed position interval (main or sub-grid respectively).
Test value	A synthetic total field test value of 57936.4 γ.
Statistical error test value	An artificial display of 0.00 γ.

MODE selector

Refer to Table 4-1.

Keypad selections

Refer to Table 4-2.

Record Capacity

Standard

Refer to Table 4-4.

Optional

Refer to Table 4-4.

Table 1-1 Technical Summary (Sheet 4 of 4)

EVA

resulting data on the high visibility LCD. This unit has automatic power-off capability to prevent the unnecessary consumption of power. The standard sensor attached to the main electronics console leaves the operator with complete freedom from cables and the incessant problems they create. This unit can be upgraded at a later date to higher capability levels by adding additional electronics, memory and software subroutines.

PPM-300 Total Field Magnetometer

This model is the most advanced field magnetometer in the world. In addition to providing the total field magnitude and time, it also records on its internal solid state memory, the grid co-ordinates (line and station) and reading error. The non-volatile memory can store up to 700 data blocks, therefore eliminating any need to record data manually. Accumulated data is regularly transferred into either of two Data Collection Units, the DCU-100 Thermal Printer or the DCU-200 Magnetic Cassette Recorder. The use of the latter unit permits the complete computer handling of data which includes background and diurnal corrections, automatic plotting and routine geophysical interpretation.

PPM-400 Base Station Magnetometer

This integral sensor and console package is the first magnetometer specifically designed for base station applications, which include airborne and ground survey corrections. It's unique configuration allows it to be set up above the ground and away from hazards and local magnetic interferences. Unlike other base station magnetometers which have a limited number of switch selected sample periods and limited versatility, the PPM-400 is completely programmable through its keypad. This includes operator selection of either relative (differential) or absolute measurements. As in the PPM-300, all data is stored internally in a high capacity non-volatile memory which is transferred periodically into either the DCU-100 or DCU-200. Also unique to this instrument is a "snooze" alarm to conserve power. In simple terms, the microprocessor acts as an alarm clock and turns power-draining circuits off following each reading and automatically powers up just prior to taking a subsequent reading.

PPM-500 Magnetic Gradiometer

With a sensitivity of better than 0.1 nT per metre, the PPM-500 represents the world's first inexpensive high reliability vertical



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GEOPHYSICAL - GEOLOGICAL
TECHNICAL DATA



32L04SE9396 2.6256 SUNDAY LAKE

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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geophysical (Ground Magnetometer)
Township or Area Sunday Lake Area
Claim Holder(s) Westmin Resources Limited
25 Adelaide St.E, #1400, Toronto M5C 1Y2
Survey Company Westmin Resources Limited
Author of Report P.R.J.Nicholls
Address of Author 25 Adelaide St.e., #1400, Toronto M5C 1Y2
Covering Dates of Survey Feb.-Mar.1982, Feb.&June 1983
(linecutting to office)
Total Miles of Line Cut 116 km

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

P.549852 to P.549891 incl.
P.553663 to P.553669 incl.
P.553745 to P.553759 incl.
P.609948 to P.609951 incl.

FOR DETAILS SEE ATTACHED
SCHEDULE "A"

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical

-Electromagnetic _____

-Magnetometer 20

-Radiometric _____

-Other _____

Geological _____

Geochemical _____

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

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

DATE: Jan. 6, 1983 SIGNATURE: Paul R. Nicholls
Author of Report or Agent

Res. Geol. _____ Qualifications 2.5610

Previous Surveys

File No.	Type	Date	Claim Holder

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MINING LANDS SECTION

TOTAL CLAIMS 66

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 4,314 Number of Readings 4,314
Station interval 25 m Line spacing 100 m
Profile scale N/A
Contour interval 100 gammas

MAGNETIC

Instrument EDA magnetometer 300 and 400 PPM
Accuracy - Scale constant +/- 5nT
Diurnal correction method Base station corrects data by linear interpolation algorithm
Base Station check-in interval (hours) 10 sec
Base Station location and value Claim P.549872 between lines 20E and 21E, value 57,600

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency (specify V.L.F. station)
Parameters measured

GRAVITY

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

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [] Time Domain [] Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode

SCHEDULE "A"

<u>Claim No.</u>	<u>Claim No.</u>
1) P.549852	41) P.553663
2) P.549853	42) P.553664
3) P.549854	43) P.553665
4) P.549855	44) P.553666
5) P.549856	45) P.553667
6) P.549857	46) P.553668
7) P.549858	47) P.553669
8) P.549859	
9) P.549860	48) P.553745
10) P.549861	49) P.553746
11) P.549862	50) P.553747
12) P.549863	51) P.553748
13) P.549864	52) P.553749
14) P.549865	53) P.553750
15) P.549866	54) P.553751
16) P.549867	55) P.553752
17) P.549868	56) P.553753
18) P.549869	57) P.553754
19) P.549870	58) P.553755
20) P.549871	59) P.553756
21) P.549872	60) P.553757
21) P.549873	61) P.553758
23) P.549874	62) P.553759
24) P.549875	
25) P.549876	63) P.609948
26) P.549877	64) P.609949
27) P.549878	65) P.609950
28) P.549879	66) P.609951
29) P.549880	
30) P.549881	
31) P.549882	
32) P.549883	
33) P.549884	
34) P.549885	
35) P.549886	
36) P.549887	
37) P.549888	
38) P.549889	
39) P.549890	
40) P.549891	

SUNDAY LAKE AREA

Magnetometer Survey

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

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 _____



Ministry of Natural Resources

Ontario

396/83 Sunday 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 Prospector's Licence

25 Adelaide St. East, Suite 1400, Toronto, Ontario M5C 1Y2

do hereby report the performance of 1317 days of Geophysical (mag) Magnetometer Survey (ground) 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 entries for claims 549852-549887, 549889-549891, 553663-553669, 553745-553759, and 609948-609951.

All the work was performed on Mining Claim (s) 66 claims listed in Schedule "A" (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 Report: P.R.J. Nicholls
Dates of Survey: February-March 1982, February 1983 and June 1983
Instrument used: EDA Magnetometer 300 and 400
Expenditure: \$5,825.00

RECORDED
DEC 5 1983
Receipt No.

Signature of Recorded Holder or Agent

Date December 1 1983

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DEC - 5 1983
P.M. 11:21:12/3/4/5/6

The Mining Act Certificate Verifying Report of Work

P.R.J. Nicholls
25 Adelaide St. East, Suite 1400, Toronto, Ontario M5C 1Y2
(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 December 1 19 83

Signature of P.R.J. Nicholls

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



Ontario

Sub 2nd

396/83.

Ministry of
Natural
Resources

Notification of recording
of assessment work credits

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

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MINING LANDS SECTION

Date of recording of work: December 5, 1983.

Recorded holder: Westmin Resources Limited

Address: 25 Adelaide Street East, Suite 1400, Toronto, Ont. M5C 1A2.

Township or Area: Sunday Lake Area.

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	<i>See attached list Claim P-549888 - 17 days only.</i>
Electromagnetic _____ days	
Magnetometer <u>20</u> _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Section <u>77 19</u> 77 19 _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

[Signature]
Mining recorder
c.c. *Westmin Resources Limited*

Magnetometer Survey - Sunday Lake Area

Work to be applied on the following contiguous claims:

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
1) P.549852	20	37) P.549888	17
2) P.549853	20	38) P.549889	20
3) P.549854	20	39) P.549890	20
4) P.549855	20	40) P.549891	20
5) P.549856	20		
6) P.549857	20	41) P.553663	20
7) P.549858	20	42) P.553664	20
8) P.549859	20	43) P.553665	20
9) P.549860	20	44) P.553666	20
10) P.549861	20	45) P.553667	20
11) P.549862	20	46) P.553668	20
12) P.549863	20	47) P.553669	20
13) P.549864	20		
14) P.549865	20	48) P.553745	20
15) P.549866	20	49) P.553746	20
16) P.549867	20	50) P.553747	20
17) P.549868	20	51) P.553748	20
18) P.549869	20	52) P.553749	20
19) P.549870	20	53) P.553750	20
20) P.549871	20	54) P.553751	20
21) P.549872	20	55) P.553752	20
22) P.549873	20	56) P.553753	20
23) P.549874	20	57) P.553754	20
24) P.549875	20	58) P.553755	20
25) P.549876	20	59) P.553756	20
26) P.549877	20	60) P.553757	20
27) P.549878	20	61) P.553758	20
28) P.549879	20	62) P.553759	20
29) P.549880	20		
30) P.549881	20	63) P.609948	20
31) P.549882	20	64) P.609949	20
32) P.549883	20	65) P.609950	20
33) P.549884	20	66) P.609951	20
34) P.549885	20		
35) P.549886	20		
36) P.549887	20		



Ministry of
Natural
Resources
Ontario

COPY

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
25 Adelaide St. East, Suite 1400, Toronto, Ontario M5C 1Y2
Post Office Address

do hereby report the performance of1317..... days ofMagnetometer Survey...(ground)
type of work
not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
P. 549852-549887 (36)	20/each
P. 549888 (1)	17
P. 549889-549891 (3)	20/each	<u>FOR DETAILS SEE SCHEDULE "A"</u>			
P. 553663-553669 (7)	20/each
P. 553745-553759 (15)	20/each
P. 609948-609951 (4)	20/each

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MINING LANDS SECTION

All the work was performed on Mining Claim (s) 66 claims listed in Schedule "A"
(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.
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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.
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The Required Information is as Follows: (Attach a list if this space is insufficient)

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Dates of Survey: February-March 1982, February 1983 and June 1983
Instrument used: EDA Magnetometer 300 and 400 PPM
Expenditure: \$5,825.00

Date December 1, 1983
Signature of Recorded Holder or Agent

The Mining Act
Certificate Verifying Report of Work

I, P.R.J. Nicholls
25 Adelaide St. East, Suite 1400, Toronto, Ontario M5C 1Y2
(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 December 1 19 83
Signature

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

Magnetometer Survey - Sunday Lake Area

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2) P.549853	20	38) P.549889	20
3) P.549854	20	39) P.549890	20
4) P.549855	20	40) P.549891	20
5) P.549856	20		
6) P.549857	20	41) P.553663	20
7) P.549858	20	42) P.553664	20
8) P.549859	20	43) P.553665	20
9) P.549860	20	44) P.553666	20
10) P.549861	20	45) P.553667	20
11) P.549862	20	46) P.553668	20
12) P.549863	20	47) P.553669	20
13) P.549864	20		
14) P.549865	20	48) P.553745	20
15) P.549866	20	49) P.553746	20
16) P.549867	20	50) P.553747	20
17) P.549868	20	51) P.553748	20
18) P.549869	20	52) P.553749	20
19) P.549870	20	53) P.553750	20
20) P.549871	20	54) P.553751	20
21) P.549872	20	55) P.553752	20
22) P.549873	20	56) P.553753	20
23) P.549874	20	57) P.553754	20
24) P.549875	20	58) P.553755	20
25) P.549876	20	59) P.553756	20
26) P.549877	20	60) P.553757	20
27) P.549878	20	61) P.553758	20
28) P.549879	20	62) P.553759	20
29) P.549880	20		
30) P.549881	20	63) P.609948	20
31) P.549882	20	64) P.609949	20
32) P.549883	20	65) P.609950	20
33) P.549884	20	66) P.609951	20
34) P.549885	20		
35) P.549886	20		
36) P.549887	20		



Westmin Resources Limited
Suite 1400, 25 Adelaide Street East
Toronto, Ontario, Canada
M5C 1Y2
416 364-8116 Telex: 06-22072

January 6, 1984.

Ontario Ministry of Natural Resources,
Lands Admin. Branch,
Whitney Block, Room 6643,
Queen's Park,
Toronto, Ontario.
M7A 1W3.

Dear Sir: Re: Sunday Lake Claim Group, Ground Magnetometer
Survey

Please find enclosed in duplicate the Assessment Report "Ground Magnetometer Survey" by P. R. J. Nicholls as well as form Technical Data Statement.

The Report of Work has been filed with the Mining Recorder Office in Timmins on December 1, 1983.

I hope you will find everything in order.

Yours truly,

WESTMIN RESOURCES LIMITED

S. Kuprejanov
(Mrs.) S. Kuprejanov,
Administrative Geologist.

SK/hmc
Encls.

RECEIVED
JAN 10 1984
MINING DEPT.

1984 01 16

Our File: 2.6256

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

Dear Sir:

We have received reports and maps for a Geophysical
(Magnetometer) Survey submitted under Special Provisions
(credit for Performance and Coverage) on Mining Claims
P 549852 et al in the Area of Sunday Lake.

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

We do not have a copy of the report of work which is
normally filed with you prior to the submission of this
technical data. Please forward a copy as soon as possible.

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

M.E. Anderson:sc

cc: Westmin Resources Limited
Suite 1400
25 Adelaide Street East
Toronto, Ontario
M5C 1Y2

2.6256

1984 05 10

Our File: 2.6256
Your File: 396/83

Mr. Bruce W. Hanley
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Geophysical (Magnetometer) Survey on Mining Claims
P 549852 et al in the Area of Sunday Lake

The Geophysical (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 sincerely,

S.E. Yundt
Director
Land Management Branch

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

M.E. Anderson:mc

cc: Westmin Resources Limited
Suite 1400
25 Adelaide Street East
Toronto, Ontario
M5C 1Y2

cc: Resident Geologist
Timmins, Ontario

D.K.

ASSESSOR

Approved Reports of Work
sent out

Notice of Intent filed

Approval after Notice of Intent
sent out

Duplicate sent to Resident
Geologist

Duplicate sent to A.F.R.O.

Magnetometer Survey - Sunday Lake Area

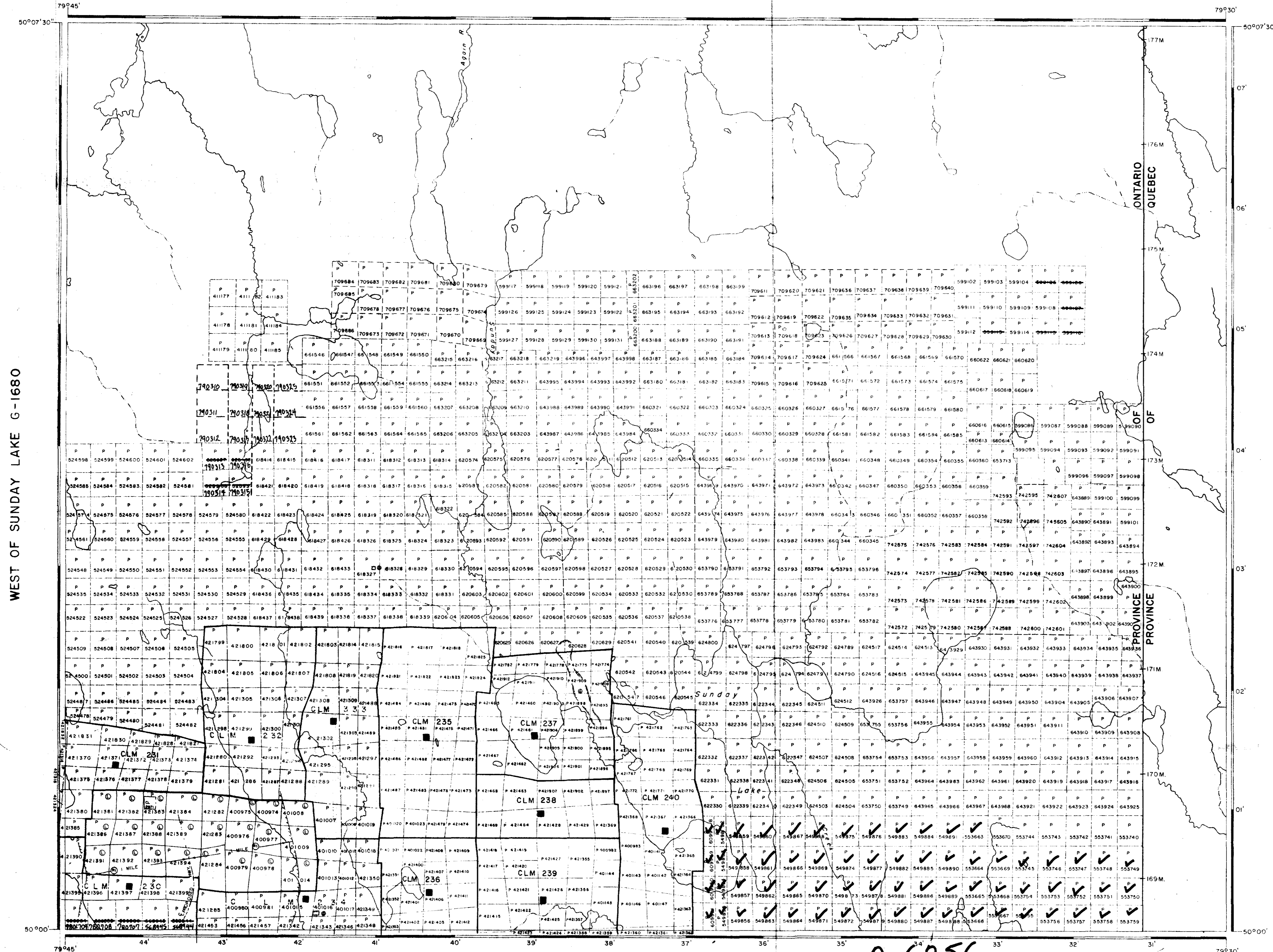
Work to be applied on the following contiguous claims:

<u>Claim No.</u>	<u>Days</u>	<u>Claim No.</u>	<u>Days</u>
1) P.549852	20	37) P.549888	17
2) P.549853	20	38) P.549889	20
3) P.549854	20	39) P.549890	20
4) P.549855	20	40) P.549891	20
5) P.549856	20	41) P.553663	20
6) P.549857	20	42) P.553664	20
7) P.549858	20	43) P.553665	20
8) P.549859	20	44) P.553666	20
9) P.549860	20	45) P.553667	20
10) P.549861	20	46) P.553668	20
11) P.549862	20	47) P.553669	20
12) P.549863	20	48) P.553745	20
13) P.549864	20	49) P.553746	20
14) P.549865	20	50) P.553747	20
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17) P.549868	20	53) P.553750	20
18) P.549869	20	54) P.553751	20
19) P.549870	20	55) P.553752	20
20) P.549871	20	56) P.553753	20
21) P.549872	20	57) P.553754	20
22) P.549873	20	58) P.553755	20
23) P.549874	20	59) P.553756	20
24) P.549875	20	60) P.553757	20
25) P.549876 4I	20	61) P.553758	20
26) P.549877 4I	20	62) P.553759	20
27) P.549878 4I	20	63) P.609948	20
28) P.549879 4I	20	64) P.609949	20
29) P.549880	20	65) P.609950	20
30) P.549881	20	66) P.609951	20
31) P.549882	20		
32) P.549883	20		
33) P.549884	20		
34) P.549885	20		
35) P.549886	20		
36) P.549887	20		

549888

Full

SOUTH PART AGAIN RIVER G-1670



WEST OF SUNDAY LAKE G-1680

LOWER DETOUR LAKE G-1647

2.6256

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
(Symbol)	NR. W.1/81	15/1/81	SR	188811

SAND AND GRAVEL

QUARRY PERMIT

LEGEND

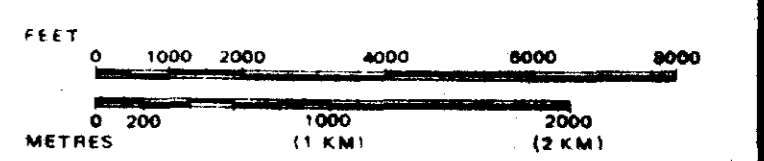
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES: LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	(Symbol)
" SURFACE RIGHTS ONLY	(Symbol)
" MINING RIGHTS ONLY	(Symbol)
LEASE, SURFACE & MINING RIGHTS	(Symbol)
" SURFACE RIGHTS ONLY	(Symbol)
" MINING RIGHTS ONLY	(Symbol)
LICENCE OF OCCUPATION	(Symbol)
ORDER-IN-COUNCIL	(Symbol)
RESERVATION	(Symbol)
CANCELLED	(Symbol)
SAND & GRAVEL	(Symbol)

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

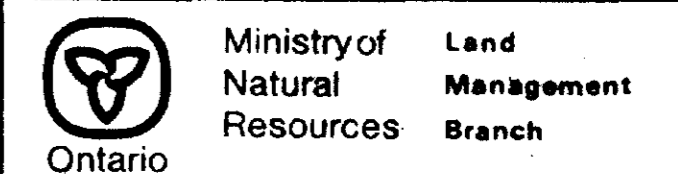
SCALE: 1 INCH = 40 CHAINS



AREA

SUNDAY LAKE

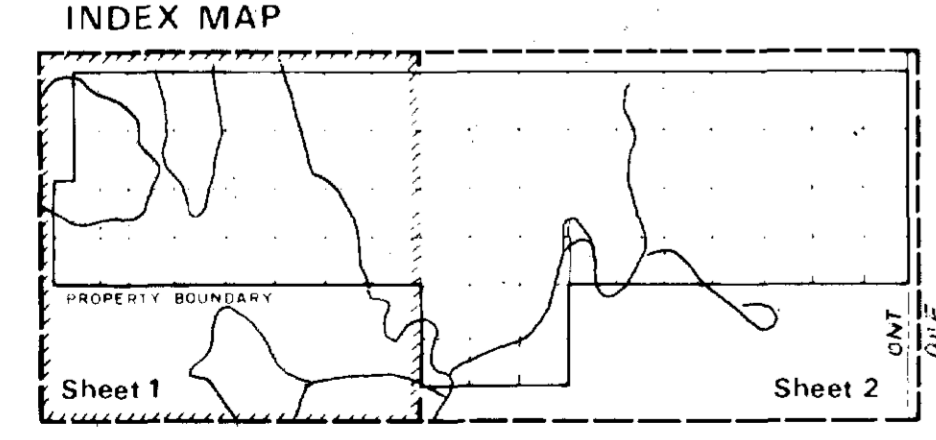
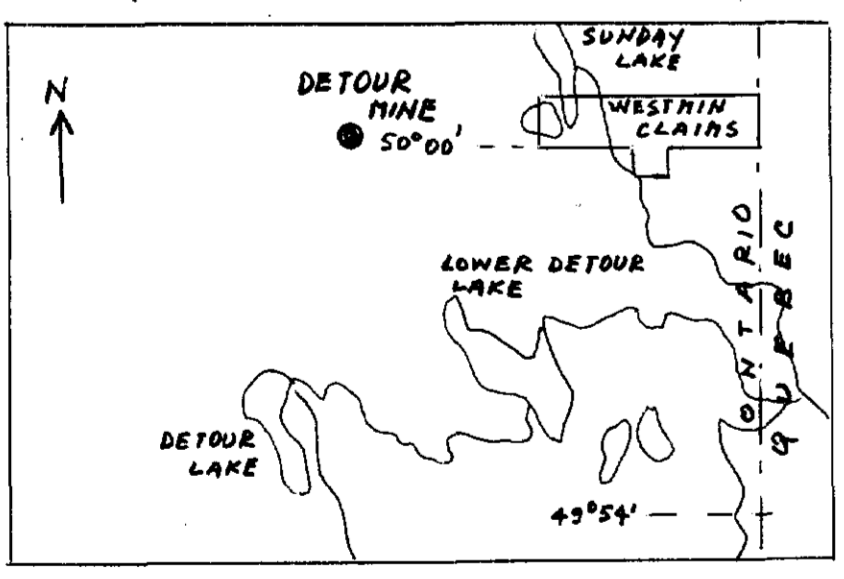
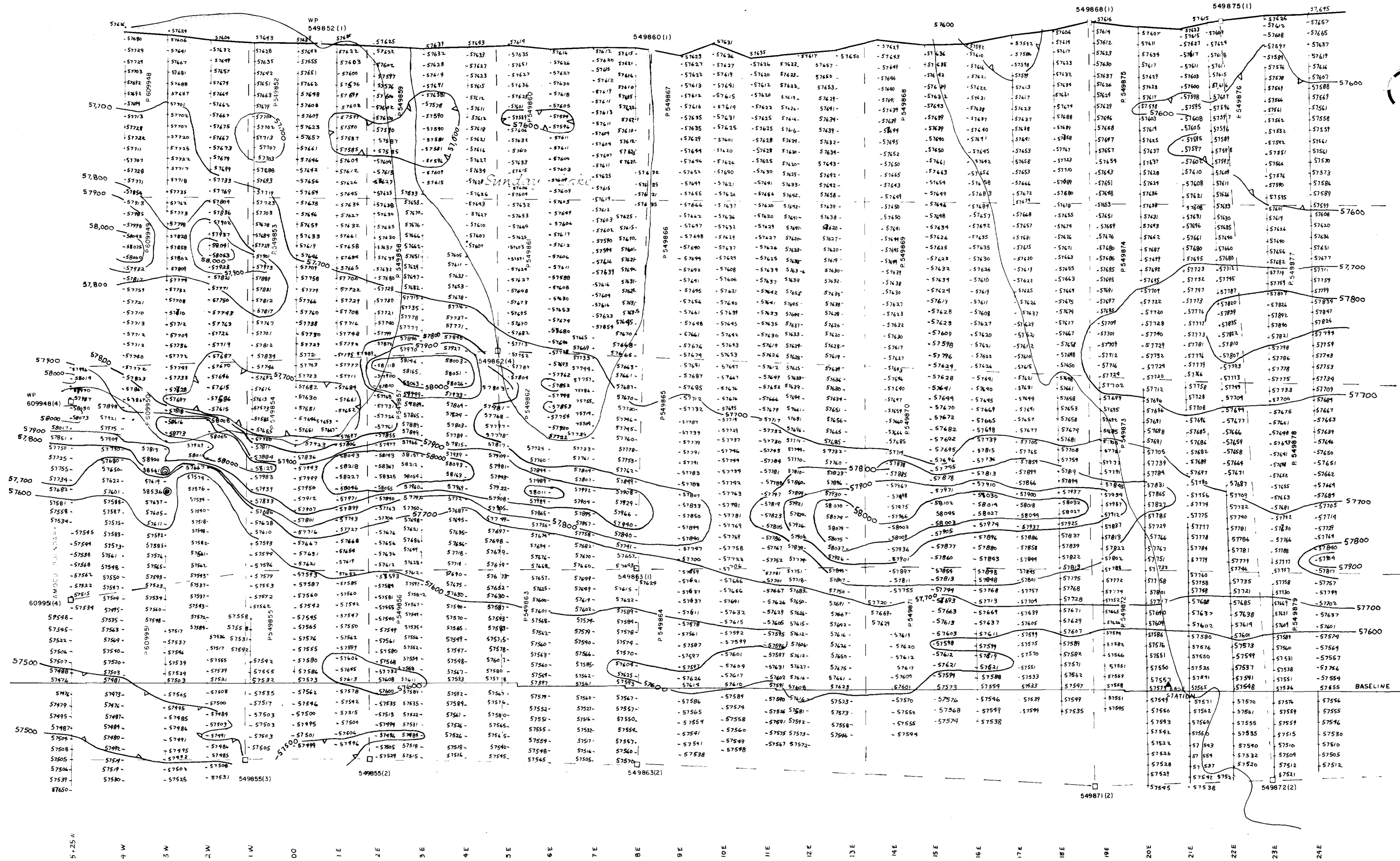
M.N.R. ADMINISTRATIVE DISTRICT
 COCHRANE
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 COCHRANE



Date: DECEMBER 1982

Number: G-1677





LEGEND

- | | | | |
|-------------|--------------------|-------------------------------|--------------------------|
| Colour Code | Magnetics (gammas) | | |
| 57,500 | 57,649 | Magnetometer reading gammas | |
| 57,600 | 57,700 | Isomagnetic contour gammas | |
| 57,700 | | Magnetic depression | |
| 57,800 | | CONTOUR INTERVAL = 100 gammas | |
| 57,900 | | INSTRUMENT EDA PPM 300 & 400 | |
| 58,000 | | OPERATORS: | |
| | | Richard Evoy | February 1982, June 1983 |
| | | Douglas Kolb | June 1983 |
| | | Douglas Chen | February 1983 |
| | | Jennifer Kent | February 1983 |
| | | Christopher Rockingham | June 1983 |

- CLAIM POST
- 549855(3)
- P549855 CLAIM BOUNDARY

Paul R. J. Nicholls

WESTMIN Westmin Resources Limited
EASTERN CANADA MINING DIVISION

DETOUR PROJECT
SUNDAY LAKE CLAIMS

MAGNETOMETER SURVEY
Total Field

Contouring by: P.R.J.N.	Scale: 1:5000
Date: December, 1983	NTS 32-E-13, 32-L-4



