



32E13SE0003 2.13390 ATKINSON LAKE

010

2. 13390

VANDETTE LAKE ASSESSMENT REPORT
ON LINECUTTING AND GEOPHYSICS
COMPLETED DURING THE WINTER
OF 1990

RECEIVED

JUN 22 1990

N.T.S. 32 E/13
Latitude 49°52'N
Longitude 79°38'W

MINING LANDS SECTION

April 1990

Alan O'Connor, B.Sc.



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File Name: VANDETTE.REP	

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1.0 Summary:

The Vandette property consists of 7 contiguous mining claims covering 112 ha in the Atkinson Lake district, Detour Lake Mine area in northeastern Ontario. The property is located 150 km NE of Cochrane, Ontario and 15 km south of the Detour Lake Mine.

Previous work on the property, conducted intermittently by Conwest, Amoco and Getty Canadian Metals, consisted of both ground and airborne geophysical surveys and diamond drilling. Work completed by Westmin Mines Limited prior to the winter of 1990 consists of a linecutting and geological mapping program.

The 1990 winter program consisted of linecutting (10.0 km) followed by magnetometer (10.0 km) and Max-Min II (9.5 km) surveys. In addition, 2 claims were staked to cover the eastern extension of an electromagnetic anomaly located on the Vandette grid.

Table 1

Work Summary

Year	Cut-Line (km)	Mag (km)	Max-Min II (km)
1989	2.46	-	-
1990	10.0	10.0	9.5
Total:	12.46	10.0	9.5

2.0 Recommendations:

Results from both the previous diamond drilling and the 1990 geophysical program indicate that additional work in the form of diamond drilling (300m/2 holes) is required to test the economic potential of this property (table 1). Furthermore, the pickets from the winter-cut portion of the grid should be stood up during the summer in order to re-establish the grid for future use. A budget of approximately \$45,000 is proposed.

3.0 Introduction:

This report details the work completed during the 1990 winter field program and presents an evaluation of the data collected. The report is based upon data gathered by Thibault Exploration Services of Timmins, Ontario during March and early April of 1990.

3.1 Location, Access and Topography

The Vandette property is located approximately 150 km northeast of Cochrane, Ontario (N.T.S. 32 E/13) at the Quebec-Ontario border 15 km southeast of the Detour Lake minesite (figs. 1,2). The property may be accessed by fixed wing-float or ski equipped aircraft, rotary winged aircraft or by tracked all-terrain vehicles. Fixed wing and rotary winged bases are located in both Cochrane, Ontario and La Sarre, Quebec. An all-weather gravel road connecting Cochrane with the Detour Lake mine site can be used to reach the general project area. From the mine site, a winter road which leads to Lac Gagnon near La Sarre, Quebec, passes within 3 km of the claim block. Although the road is no longer maintained, it is still in good condition. During the summer, an amphibious, tracked vehicle, such as an Argo, can be used for access while snowmobiles and heavy equipment (skidders, etc.) may be used in the winter. An old drill road joins the main road with the grid.

Topographically, the region is characterized by low relief with much of the area covered by fen and string bog. Outcrop is sparse due to a blanket of overburden and muskeg which extends over a large portion of this region. Vegetation is typical of the boreal forest with much of the region covered by stands of black spruce and small areas of poplar. To date, there has been no harvesting of trees in this vicinity. The area is drained by small creeks and rivers with the Detour River being the largest in the district.

3.2 Land Status

The Vandette group consists of 7 contiguous mining claims which cover an area of 112 ha (fig.3). Westmin Mines Ltd. holds a 100% equity interest in the property (Table 2).

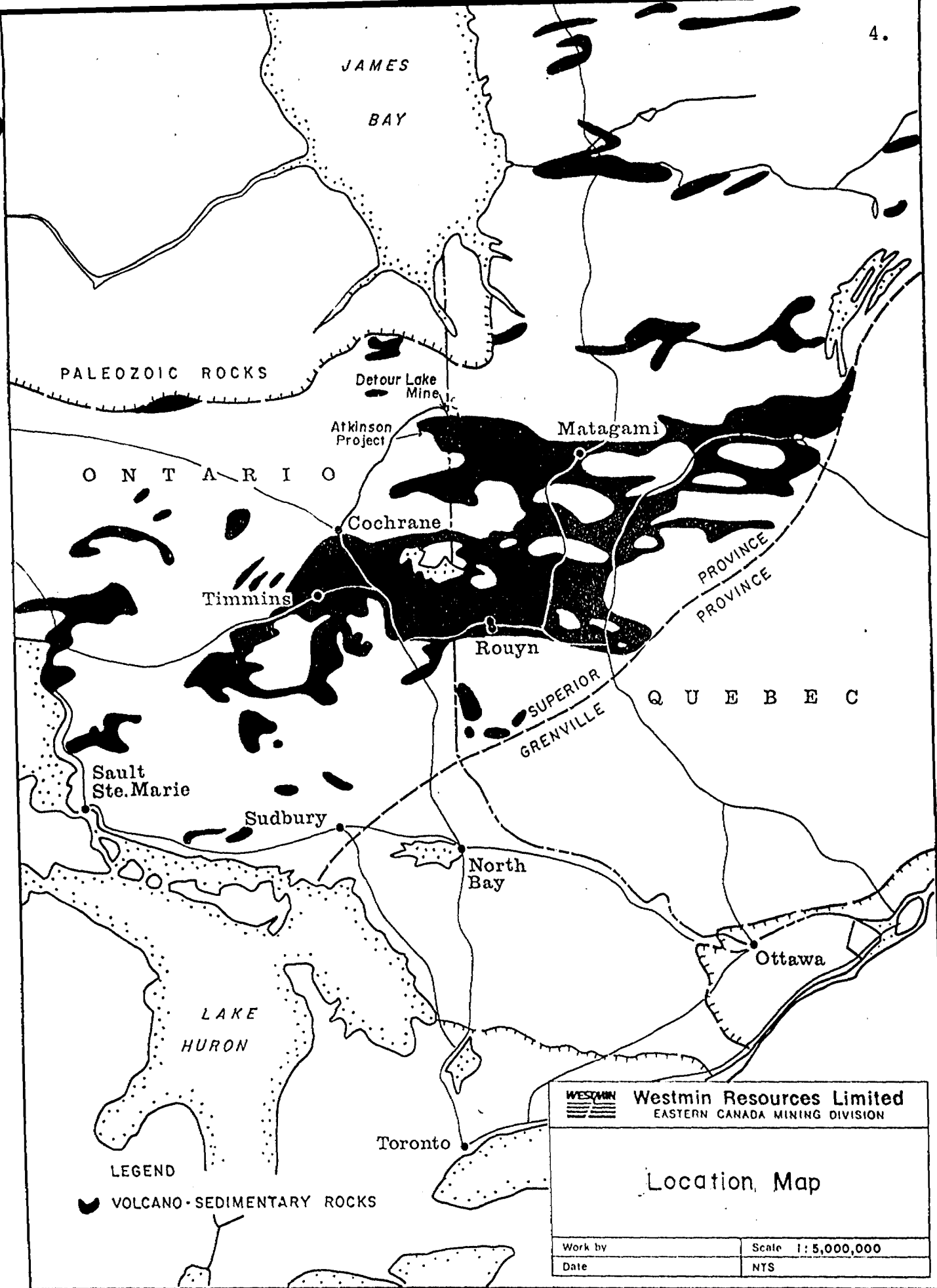
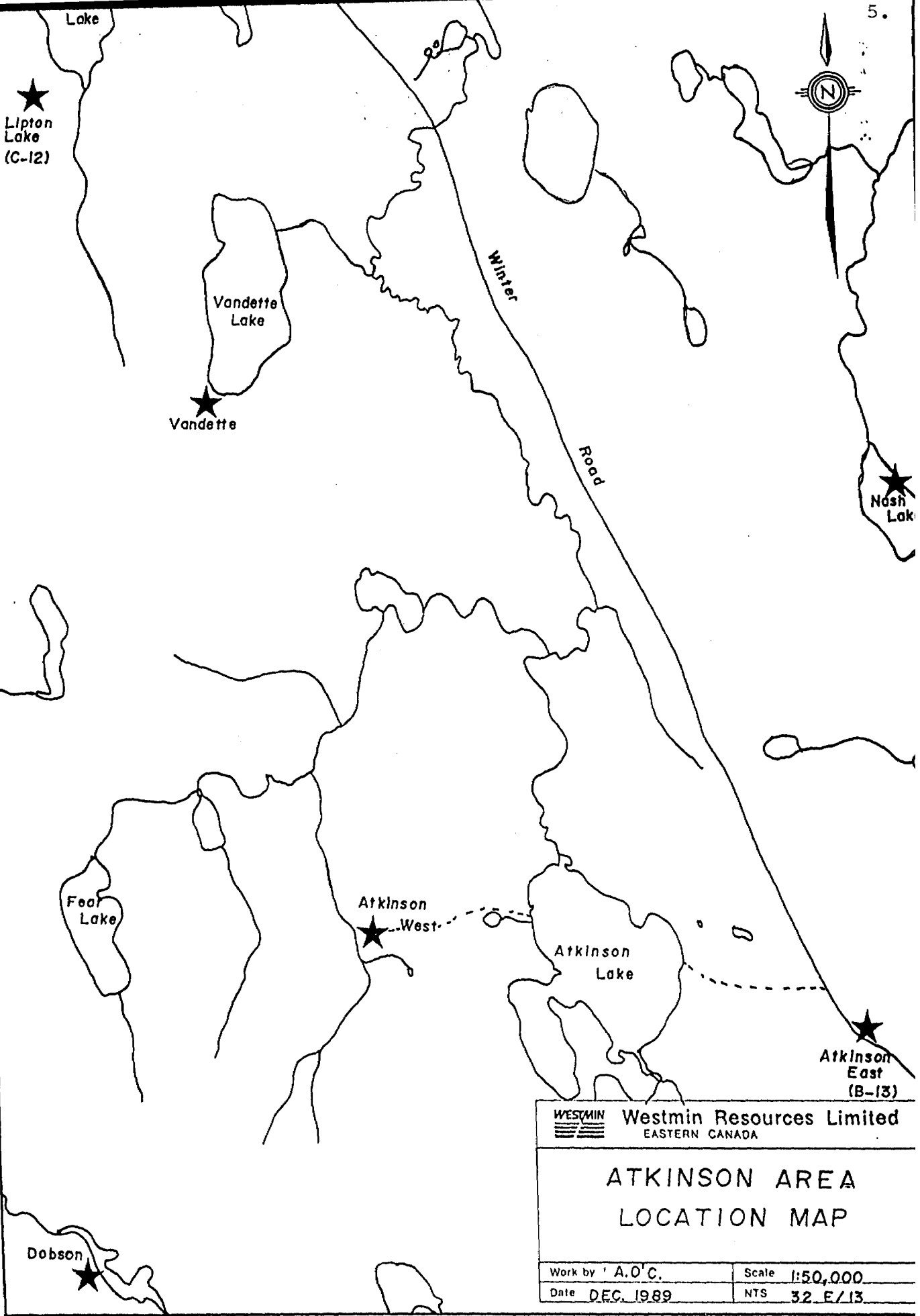


Figure 1



Westmin Resources Limited
EASTERN CANADA

ATKINSON AREA LOCATION MAP

Work by ' A.O.C.	Scale 1:50,000
Date DEC. 1989	NTS 32 E/13

TABLE 2

ATKINSON VANDETTTE - PROPERTY STATUS

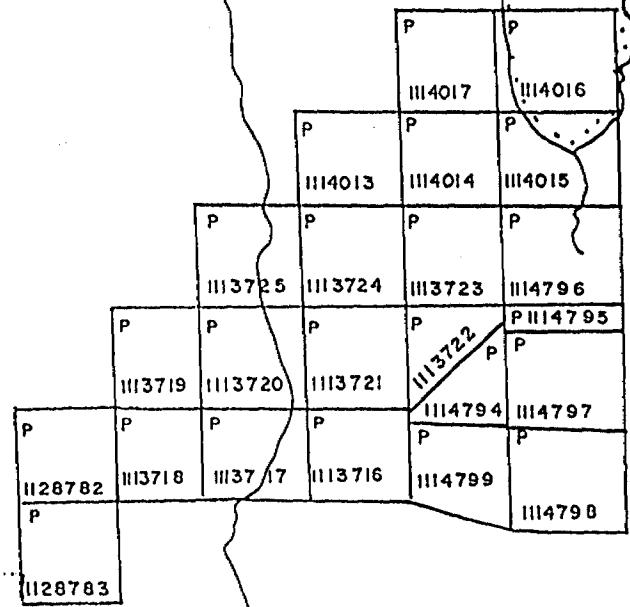
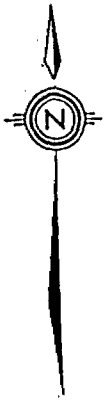
Location: Atkinson Lake Area (G-1626),
Porcupine Mining Division, Ontario
N.T.S. 32-E-13
Lat. 49 52'N
Long. 79 38'W

Equity: Westmin Mines Limited 100%

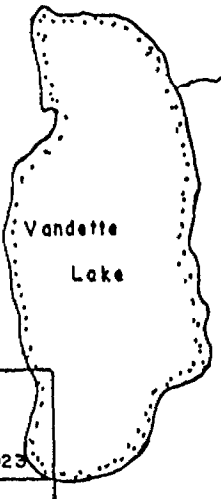
<u>Claims</u>	<u>Recording Date</u>	<u>Lease Due</u>	<u>Assessment Work Due</u>	<u>(days) Work Filed</u>	<u>Extension Granted</u>
P.1114023	25 April 1989	25 April 1995	25 April 1991	26.7	-----
P.1114024	25 April 1989	25 April 1995	25 April 1991	26.7	-----
P.1114025	25 April 1989	25 April 1995	25 April 1990	Nil	25 Oct.90
P.1114026	25 April 1989	25 April 1995	25 April 1990	Nil	25 Oct.90
P.1114027	25 April 1989	25 April 1995	25 April 1990	Nil	25 Oct.90
P.1128784	06 April 1990	06 April 1996	25 April 1991	Nil	-----
P.1128785	06 April 1990	06 April 1996	25 April 1991	Nil	-----

7 claims = 112 ha

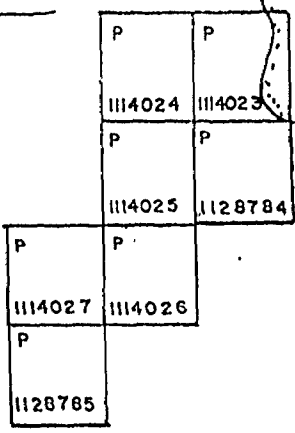
Date: 08 May 1990



ATKINSON C-12



Vandette Lake



VANDETTE


 Westmin Resources Limited EASTERN CANADA MINING DIVISION	
VANDETTE PROJECT Claim Map	
Work by	Scale
Date	NTS
	1:31,680
	32-E-13

Figure: 3

3.3 Previous Work

Mineral exploration within the area covered by the Vandette claims dates back to 1959 and has continued sporadically to date.

- 1959 (63.1023): Conwest conducted a loop-frame electromagnetic survey over the property which delineated several single-line, weak conductors.
- 1976 (Report #26): Amoco drilled one diamond drill hole (9-1) which intersected mafic volcanics and fragmental felsic volcanics. The metreage drilled was 218.2m.
- 1982 (2.4613): An airborne geophysical survey was flown for Getty Canadian Metals over an extensive portion of the Atkinson Lake region, including the area covered by the Vandette group of claims.
- 1983 (Report #37): Getty Canadian Metals drilled one hole (DL-83-30) to a depth of 167.9 metres. The hole intersected mafic volcanics, intermediate tuffs, felsic tuffs and metasediments.
- 1989: During the 1989 summer field season, Westmin Mines completed a program of linecutting (2.46 km) and geological mapping. No outcrop was found.

3.4 1990 Work Program

During March and April of 1990, a field program consisting of linecutting (10.0 km) followed by magnetometer (10.0 km) and Max-Min II (9.5 km) surveys was completed on the Vandette claim block. The objective of this program was to outline conductive and magnetic trends for the purpose of drill target delineation.

In addition to this work, 2 claims were added to the group in order to cover the extension of an electromagnetic conductor.

4.0 Regional Geology:

The Atkinson area is underlain by the northern belt of a folded supracrustal sequence with the main volcanic-sedimentary sequence occurring to the west in Quebec. The belt, which is Archean in age, has undergone regional and contact metamorphism ranging from upper greenschist to almandine-amphibolite facies rank.

The belt is composed of a metavolcanic-sedimentary sequence with a basal unit of felsic to intermediate volcanics. Overlying the felsic volcanics is a sequence of metasediments followed by mafic to intermediate flows and pyroclastics. Stratigraphically above this unit are interbedded felsic to intermediate volcanics and mafic to intermediate volcanics and metasediments. At the top of the stratigraphic sequence is a unit of metasediments with mafic flows and graphitic tuffs and metasediments which commonly contain anomalous concentrations of sulphides.

The area is surrounded by quartz-monzonite batholiths with a large gabbroic intrusion occurring in the Detour Lake area. Finally, the area possesses several diabase dykes which crosscut all other rocks and structures (Johns, 1982).

4.1 Economic Geology

The most significant ore deposit in the project area is the Detour Lake gold mine which is located 15 km to the north of the property. Currently this deposit contains 7.3 mt at 5.4 g/t Au.

The main zone of mineralization of the deposit is hosted within the basal part of the mafic flow sequence, the upper part of the ultramafic zone and within the intermediate and cherty tuff horizon located between the two preceding units. The gold is associated with chalcopyrite in the metavolcanic rocks as well as in the mineralized quartz veins which occur above the main zone (Johns, 1982).

Alteration in the vicinity of the deposit consists of:

- a) talc-carbonate alteration of the ultramafic rocks
- b) chloritic alteration of the basalts
- c) potassic alteration in the cherty tuff
- d) intense biotite alteration of the basalts

5.0 Linecutting:

10.0 km of line was cut on the Vandette claim group during the spring field program. A base line (N-S) was cut at 0 degrees with crosslines put in at a 100 metre interval. Pickets were placed along the line at a 20 metre interval. With the 1989 linecutting included, the total amount of cut line on the Vandette claims is 12.46 km.

6.0 Geophysical Program:

6.1 Magnetometer Survey (Figure 4)

A magnetometer survey, which covered the entire Vandette grid (10.0 km) was completed using a GEM GSM8 magnetometer. Readings were taken every 20m along the crosslines and along the baseline as well in order to determine the diurnal magnetic variation. The data was plotted and contoured using the Geopak software program. Results show a strong magnetic feature trending parallel to, and coincident with the electromagnetic conductor delineated the Max-Min survey.

6.2 Max-Min II (Figures 5,6)

A total of 9.5 km of Max-Min II was completed on the Vandette grid with an Apex instrument and a cable length of 140m. Readings were taken at a 20 metre interval on two frequencies; 444 Hz and 1777 Hz. One strong, northeasterly trending conductor was delineated across the entire claim group.

Respectfully submitted by:



Alan J. O'Connor, B.Sc.

reviewed:

References

● John, G.W., (1982): Geology of the Burntbush-Detour Lake Areas. Ontario Geological Survey Report #199.

Certification

I Alan J. O'Connor, of 312 St. Clarens Avenue, Toronto, Ontario M6H 3W2, certify that:

- 1) I hold a Bachelor of Science degree (geology) received in 1985 from the University of Western Ontario
- 2) I have practised my profession as a project geologist in the mining industry on a full-time basis for four years.
- 3) I have conducted field work on this property, and supervised the geological, geochemical and geophysical work described in this report.
- 4) I have no financial interest in the property.

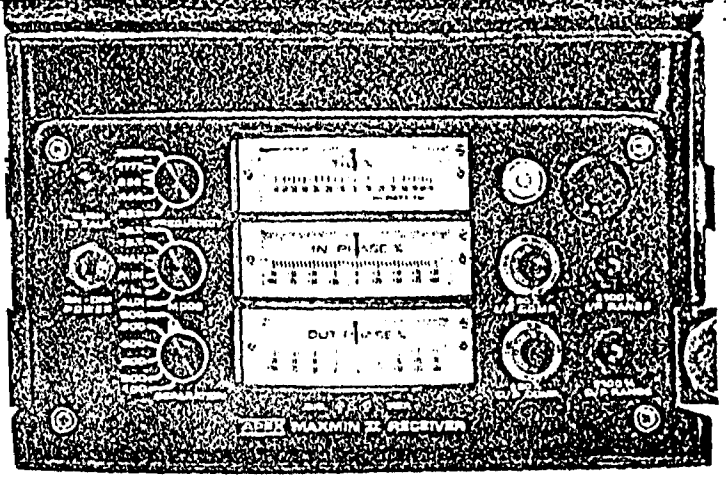
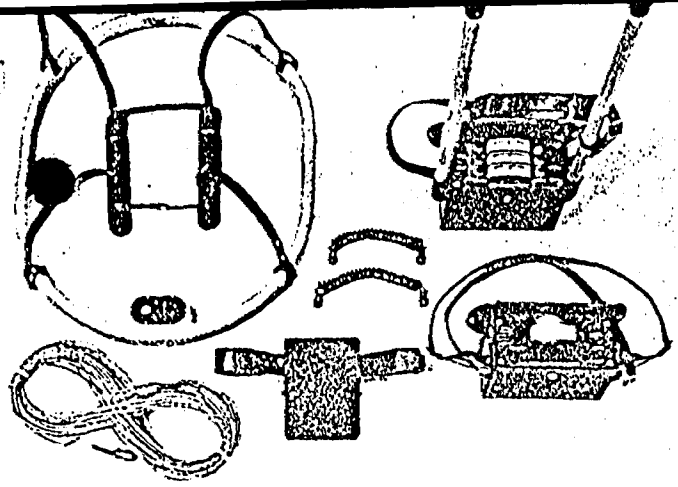
April 1990


A. J. O'Connor, B.Sc.

SPECIFICATIONS

GEM GSM8 MAGNETOMETER

RESOLUTION:	1 gamma or 0.5 gamma optional
ACCURACY:	± 1 gamma over operating range
RANGE:	20,000 - 100,000 gamma in 23 overlapping steps
GRADIENT TOLERANCE:	Up to 5000 gamma/meter
OPERATING MODES:	MANUAL PUSHBUTTON, new reading every 1.85 sec., display active between readings CYCLING, pushbutton initiated, 1.85 sec. period SELFTEST cycle, pushbutton controlled, 7 sec. period
OUTPUT:	VISUAL: 5 digit 1 cm (0.4") high Liquid Crystal Display, visible in any ambient light DIGITAL: Multiplied precession frequency and gating pulse ANALOG: 0-99 gamma (optional)
EXTERNAL TRIGGER:	Permits externally triggered cycling with periods longer than 1.85 sec. (cycling faster than once per sec. optional)
POWER REQUIREMENTS:	10-18V DC 8Ws per reading
POWER SOURCE:	INTERNAL: 12 V 0.75 Ah NiCd rechargeable battery, 3,000 readings from fully charged battery EXTERNAL: 12-18V
BATTERY CHARGER:	Input: 120/220 V 50/60 Hz, Output 75 mA DC constant current
OPERATING TEMPERATURE:	-40 to +55 C
DIMENSIONS:	CONSOLE: 15 x 8 x 15 cm (6 X 3¼ x 6") SENSOR: 14 x 7 cm dia (5¼ x 2¾" dia) STAFF: 175 cm (70") extended, 53 cm (21") collapsed or sectional 45 cm (18") each section
WEIGHT:	2.7 kg (6 lb) complete, 2.3 kg (5 lb) in back-pack mode
STANDARD PACKAGE:	CONSOLE, with batteries, carrying harness SENSOR, with cable STAFF, collapsible, or sectional
STANDARD ACCESSORIES:	BATTERY CHARGER, MANUAL, CARRYING CASE
GUARANTEE:	15 Months from the date of shipping



SPECIFICATIONS :

- Frequencies:** 222, 444, 888, 1777 and 3555Hz.
- Modes of Operation:**
 - MAX:** Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with refer. cable.
 - MIN:** Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.
 - V.L. :** Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.
- Coil Separations:** 25, 50, 100, 150, 200 & 250m (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF). Coil separations in VL.mode not restricted to fixed values.
- Parameters Read:**
 - In-Phase and Quadrature components of the secondary field in MAX and MIN modes.
 - Tilt-angle of the total field in VL. mode.
- Readouts:**
 - Automatic, direct readout on 90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.
 - Tilt angle and null in 90mm edgewise meters in VL.mode.
- Scale Ranges:**
 - In-Phase: ±20%, ±100% by push-button switch.
 - Quadrature: ±20%, ±100% by push-button switch.
 - Tilt: ±75% slope.
 - Null (VL): Sensitivity adjustable by separation switch.
- Repeatability:** ±0.25% to ±1% normally, depending on conditions, frequencies and coil separation used.
- Transmitter Output:**
 - 222Hz : 220 Atm²
 - 444Hz : 200 Atm²
 - 888Hz : 120 Atm²
 - 1777Hz : 60 Atm²
 - 3555Hz : 30 Atm²
- Receiver Batteries:** 9V trans. radio type batteries (4). Life: approx. 35hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.
- Transmitter Batteries:** 12V, 6 Ah Gel-type rechargeable battery. (Charger supplied).
- Reference Cable:** Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.
- Voice Link:** Built-in intercom system for voice communication between receiver and transmitter operators in MAX and MIN modes, via reference cable.
- Indicator Lights:** Built-in signal and reference warning lights to indicate erroneous readings.
- Temperature Range:** -40°C to +60°C (-40°F to +140°F).
- Receiver Weight:** 6kg (13 lbs.)
- Transmitter Weight:** 13kg (29 lbs.)
- Shipping Weight:** Typically 60kg (135 lbs.), depending on quantities of reference cable and batteries included. Shipped in two field/shipping cases.
- Stability:** In-Phase and Quadrature: 0.25% to 0.5% ; Tilt: 1%.

Specifications subject to change without notification.

APEX PARAMETRICS LIMITED
200 STEELCASE RD. E., MARKHAM, ONT., CANADA, L3R 1G2

Phone: (416) 495-1612 Cables: APEXPARA TORONTO Telex: 06-956775 NORPVK TOR
416 852-5875 NO. 909 NEW TELLEX NUMBER: 06-956775 APEXPARA MKHM

DOCUMENT No.
W 9006-60372

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

Report of Work **2.1331**
Mining Act (Geophysical, Geological and Geochemical S



Type of Survey(s) Geophysical	Mining P	Recorded Holder(s) Westmin Mines Limited 2.13340	900 T-4638
Address 25 Adelaide St. East, #1400, Toronto, Ont.		Telephone No. (416)364-8116	
Survey Company Guy Thibault, Exploration Services, Timmins			
Name and Address of Author (of Geo-Technical Report) A.O'Connor, 25 Adelaide St.E., Toronto, Ont.M5C 1Y2			Date of Survey (from & to) 28 02 90 05 04 90 Day Mo. Yr. Day Mo. Yr.

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)					
Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	Days per Claim	Prefix	Number	Prefix	Number	Prefix	Number
	- Electromagnetic		P	1114023				
	- Magnetometer	33.3 & 40		1114024				
	- Other Max-Min	20		1114025				
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim						
	- Electromagnetic							
	- Magnetometer							
	- Other							
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geological							
	Geochemical							
	Electromagnetic	Days per Claim						
	Magnetometer							
	Other							
Total miles flown over claim(s).	Recorded Holder or Agent (Signature) <i>S. Kuprejanov</i>		Total number of mining claims covered by this report of work.			5		

RECEIVED

RECORDED
JUN 12 1990

MINING LANDS SECTION

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
S. Kuprejanov, 25 Adelaide Street East, Suite 1400

Toronto, Ontario M5C 1Y2 Telephone No. **(416)364-8116** Date **8 June 1990** Certified By (Signature) *S. Kuprejanov*

For Office Use Only

Total Days Cr. Recorded 2000	Date Recorded JUNE 12/90	Mining Recorder <i>[Signature]</i> Mining Recorder	Received Stamp JUN 12 1990 <i>[Signature]</i>
	Date Approved as Recorded See revised work statement	Provincial Manager, Mining Lands	

* Please see attached list.

Atkinson Lake Area - Geophysical Survey - 28 Feb.- 05 April 1990

Mining Claims Traversed	Magnetometer	Max-Min
P.1114023	33.3 days	20 days
P.1114024	33.3 days	20 days
P.1114025	40 days	20 days
P.1114026	40 days	20 days
P.1114027	40 days	20 days



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT

2.13390

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
Township or Area Atkinson Lake Area (G-1626)
Claim Holder(s) Westmin Mines Limited
Survey Company Guy Thibault Expl. Services
Author of Report A.O'Connor
Address of Author 25 Adelaide St.E., #1400 Toronto, Ont. M5C 1Y2
Covering Dates of Survey 28 February - 05 April 1990
Total Miles of Line Cut 10.0 km

MINING CLAIMS TRAVERSED
List numerically

Table with columns for (prefix) and (number). Contains entries: P. 1114023, P. 1114024, P. 1114025, P. 1114026, P. 1114027. Total Claims 5.

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED table with columns for Geophysical, Geological, Geochemical and DAYS per claim.

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

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

DATE: 20 June 1990 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 2.12993

Table with columns: Previous Surveys, File No., Type, Date, Claim Holder.

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____
Station interval _____ Line spacing _____
Profile scale _____
Contour interval _____

MAGNETIC

Instrument _____ GEM 65M8
Accuracy – Scale constant _____ ± 1 gamma
Diurnal correction method _____ looping
Base Station check-in interval (hours) _____ N/A
Base Station location and value _____ N/A

ELECTROMAGNETIC

Instrument _____ Apex Parametrics Max-Min II
Coil configuration _____ Horizontal
Coil separation _____ 140 m
Accuracy _____ $\pm 1\%$
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____ 444 Hz & 1777 Hz
(specify V.L.F. station)
Parameters measured _____ In phase, quadrature

GRAVITY

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

INDUCED POLARIZATION
RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters – On time _____ Frequency _____
– Off time _____ Range _____
– Delay time _____
– Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

Mining Claims
Traversed

Magnetometer
& Linecutting

Max-Min

Filed 12 Feb.1990
Geology & Linecutting

P.1114023

33.3 days

20 days

26.7 days

P.1114024

33.3 days

20 days

26.7 days

P.1114025

40 days

20 days

Nil

P.1114026

40 days

20 days

Nil

P.1114027

40 days

20 days

Nil



A M E N D E D

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

September 10, 1990

✓
Mining Lands Section
3rd Floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Tel: (416) 965-4888

Your File: W9006.60372

Our File: 2.13390

Mining Recorder
Ministry of Northern Development & Mines
60 Wilson Avenue
TIMMINS, Ontario
P4N 2S7

Dear Sir/Madam:

Re: Notice of Intent dated July 12, 1990 for Geophysical
(Electromagnetic & Magnetometer) Survey Submitted on Mining
Claims: P 1114023 et al in the Atkinson Lake Area.

The assessment work credits, as listed with the above-mentioned Notice of Intent have been approved as of August 13, 1990. Due to a clerical error the magnetometer credits were reversed with the electromagnetic credits. An amended copy of the "Technical Assessment Work Credits" sheet is attached to this letter.

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

Yours sincerely,

Ron Gashinski
Acting Provincial Manager, Mining Lands
Mines & Minerals Division

RJS
LJS:zm

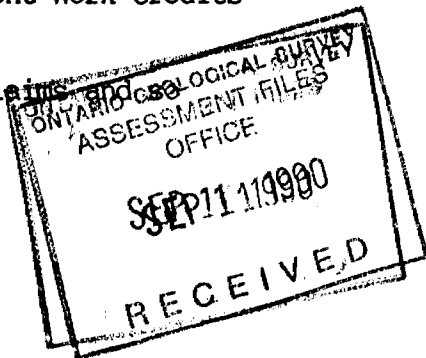
Encl:

cc: Mr. W. D. Tieman
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Westmin Mines Ltd.
TORONTO, Ontario

Attn: S. Kuprejanov





Recorded Holder WESTMIN MINES LIMITED
Township or Area ATKINSON LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical 20	P 1114025 to 027 incl.
Electromagnetic _____ days	
Magnetometer 40	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input 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

20 days credit for electromagnetics and 20 days credit for magnetometer P 1114023 - 24

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.



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
880 Bay Street, 3rd Floor
✓ Toronto, Ontario
M5S 1Z8

Tel: (416) 965-4888

August 13, 1990

Your File: W9006.60372
Our File: 2.13390

Mining Recorder
Ministry of Northern Development & Mines
60 Wilson Avenue
TIMMINS, Ontario
P4N 2S7

Dear Sir/Madam:

Re: Notice of Intent dated July 12, 1990 for a Geophysical
(Electromagnetic & Magnetometer) Survey submitted on Mining
Claims: P 1114023 et al in the Atkinson Lake Area.

The assessment work credits, as listed with the above mentioned
Notice of Intent, have been approved as of the above date.

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

Yours sincerely,

W. R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

AS
LJS:zm

Encl:

cc: Mr. W. D. Tieman
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist
TIMMINS, Ontario

Westmin Mines Ltd.
TORONTO, Ontario

Attn: S. Kuprejanov

Recorded Holder
Westmin Mines Limited

Township or Area
Atkinson Lake Area

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 40 _____ days Magnetometer _____ 20 _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input 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.	P 1114025 to 027 incl.

Special credits under section 77 (16) for the following mining claims

20 days credit for electromagnetics and 20 days credit for magnetometer P 1114023-24

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.

LOWER DETOUR LAKE G-1647

2.13390



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

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

LEGEND

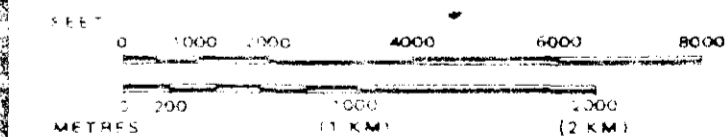
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" 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	⊕

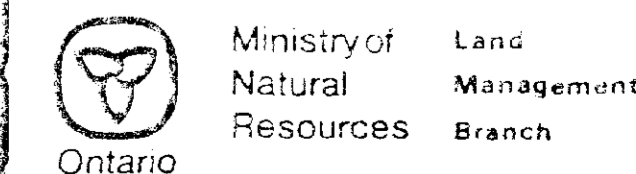
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



AREA

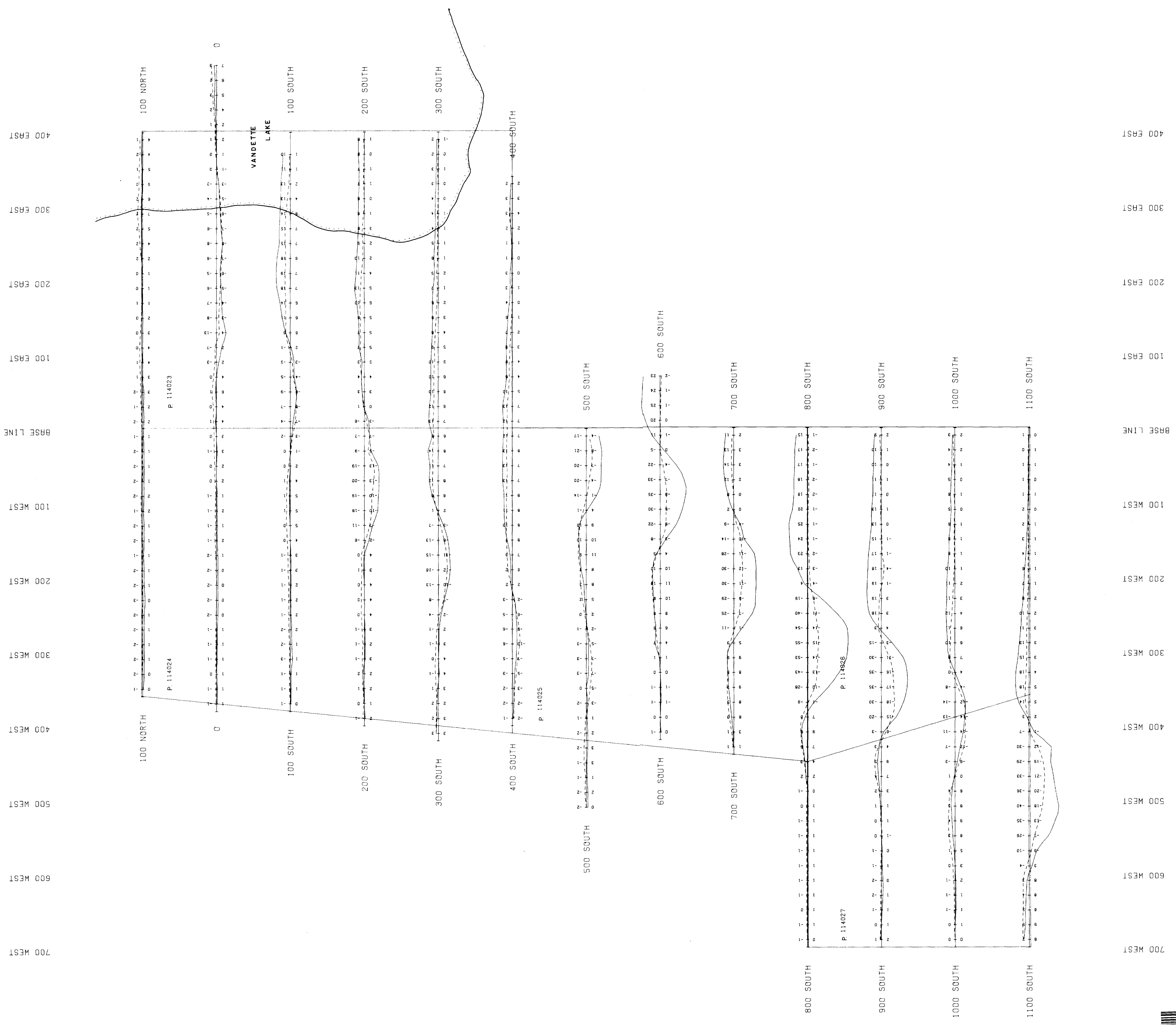
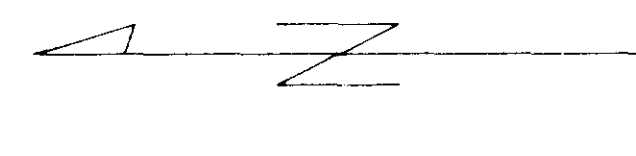
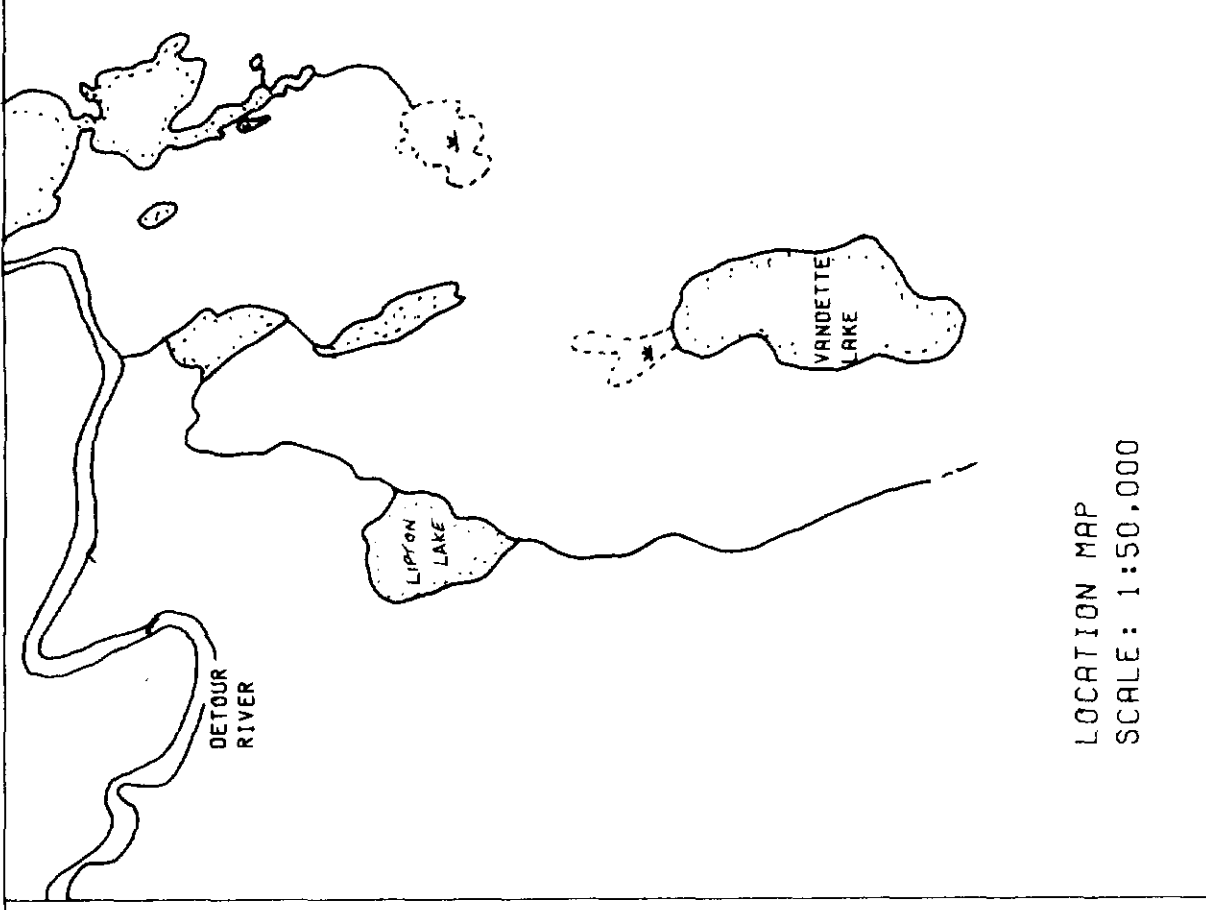
ATKINSON LAKE
 M.R.O. ADMIN. STRATIVE DISTRICT
 COCHRANE
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 COCHRANE



Date: DECEMBER 1982
 Number: G-1626

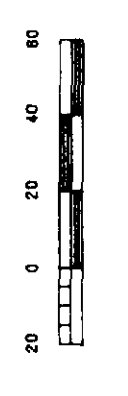


Received March 19/84



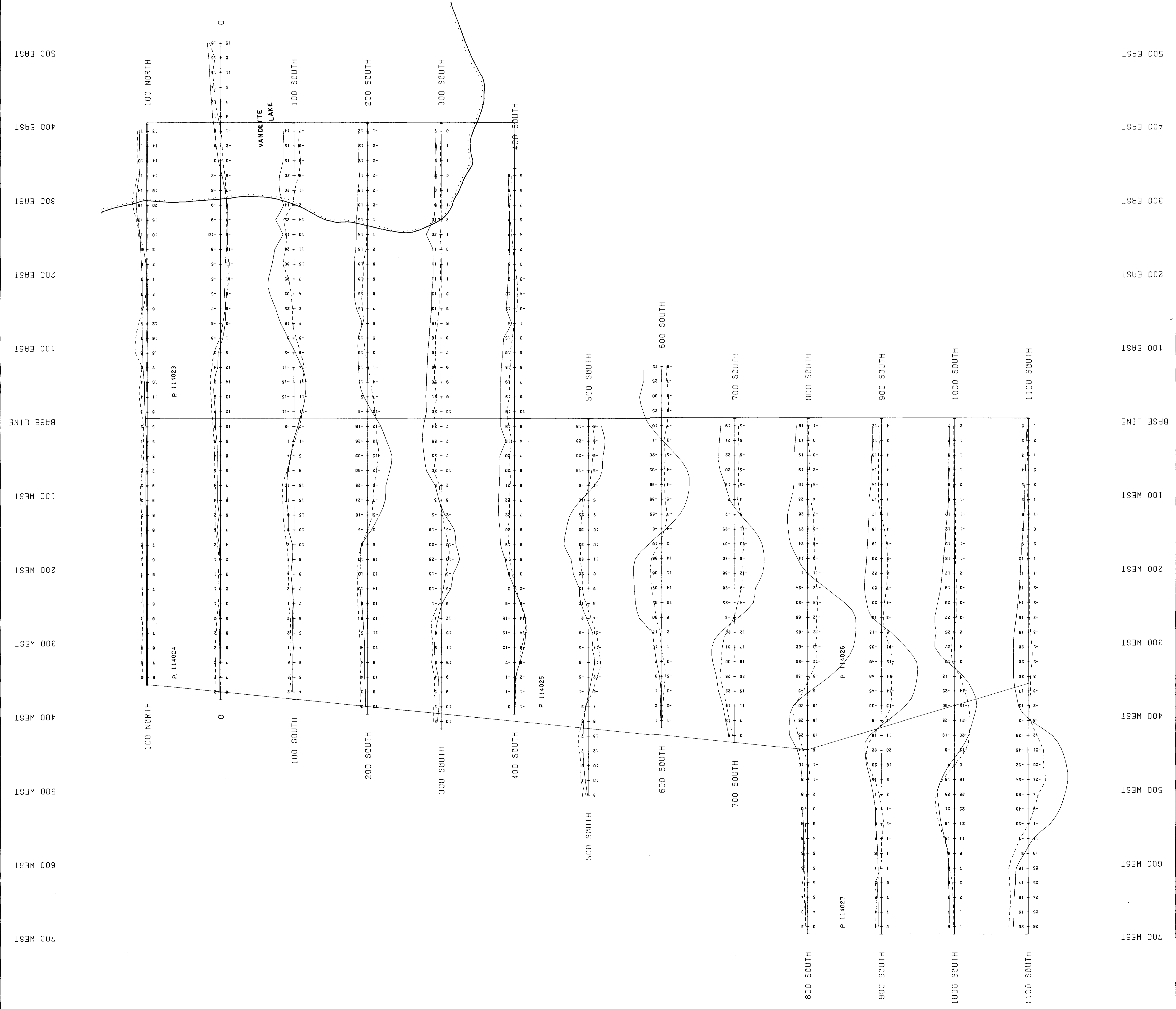
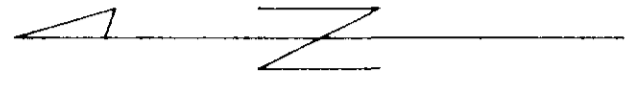
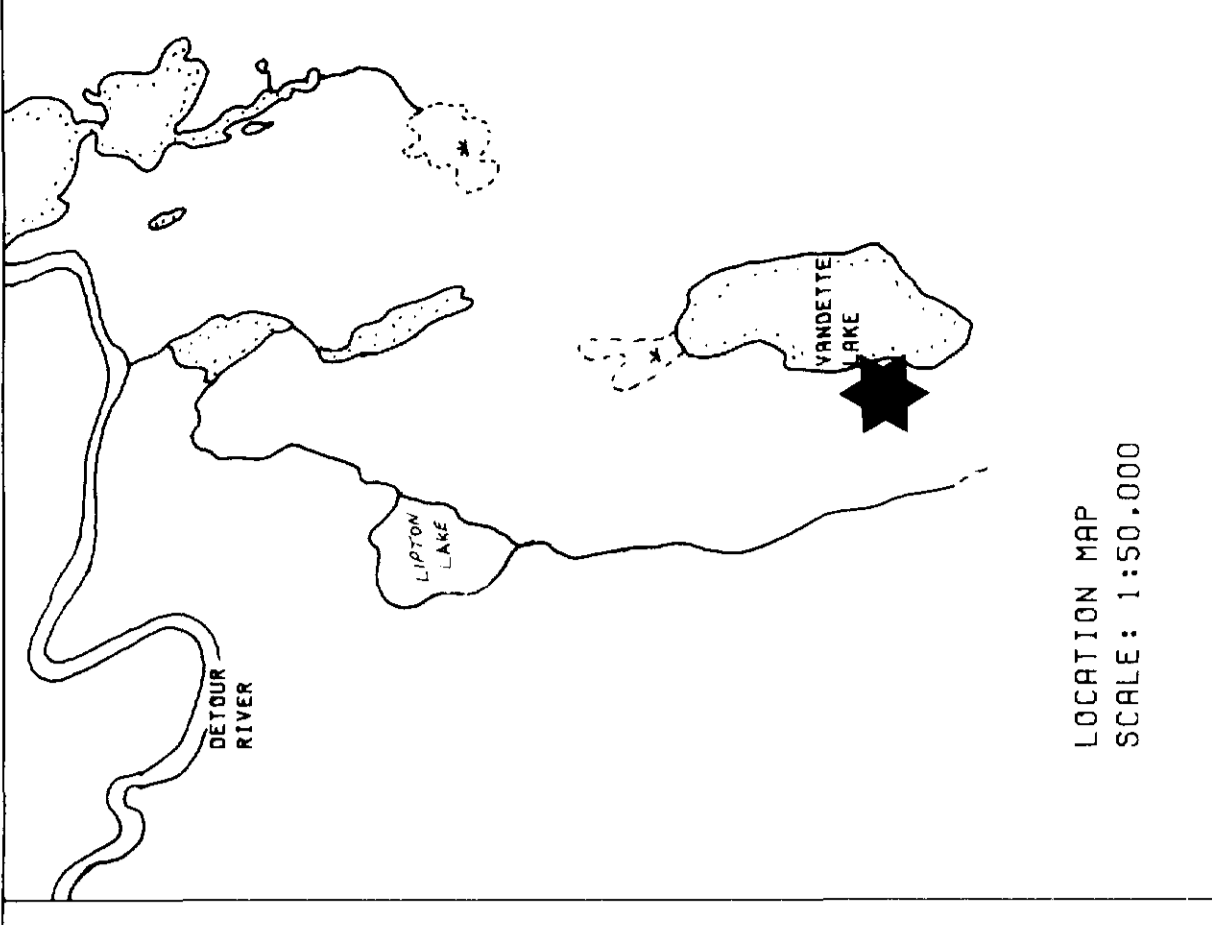
LEGEND
INSTRUMENT USED: APEX MAX-MIN II
CABLE LENGTH: 140M
POSITIVE VALUES TO NORTH
NEGATIVE VALUES TO SOUTH
IN PHASE TO NORTH
OUT OF PHASE TO SOUTH
SOLID LINE = 11 PHASE
DASHED LINE = 0UF OF PHASE
IN PHASE POTENTIOMETER SET
AT 2.7

2.13390



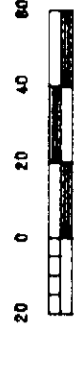
WESTMIN MINES LTD. EASTERN CANADA EXPLORATION	
ATKINSON PROJECT VANDETTIE CLAIMS MAX-MIN II SURVEY 444 HZ	
WORK BY: GUY THIBRAULT	SCALE: 1:2000
DATE: MARCH, 1990	N.T.S.: 32 E/13





LEGEND
INSTRUMENT USED: APEX MAX-MIN II
CORRECTION: 400
POSITIVE VALUES TO NORTH
NEGATIVE VALUES TO SOUTH
IN PHASE TO NORTH
OUT OF PHASE TO SOUTH
SOLID LINE = IN PHASE
DASHED LINE = OUT OF PHASE
IN PHASE POTENTIOMETER SET
AT 2.7

2.13390



WESTMIN MINES LTD.
EASTERN CANADA EXPLORATION

ATKINSON PROJECT

VANDETTE CLAIMS

MAX-MIN II SURVEY

1777 Hz

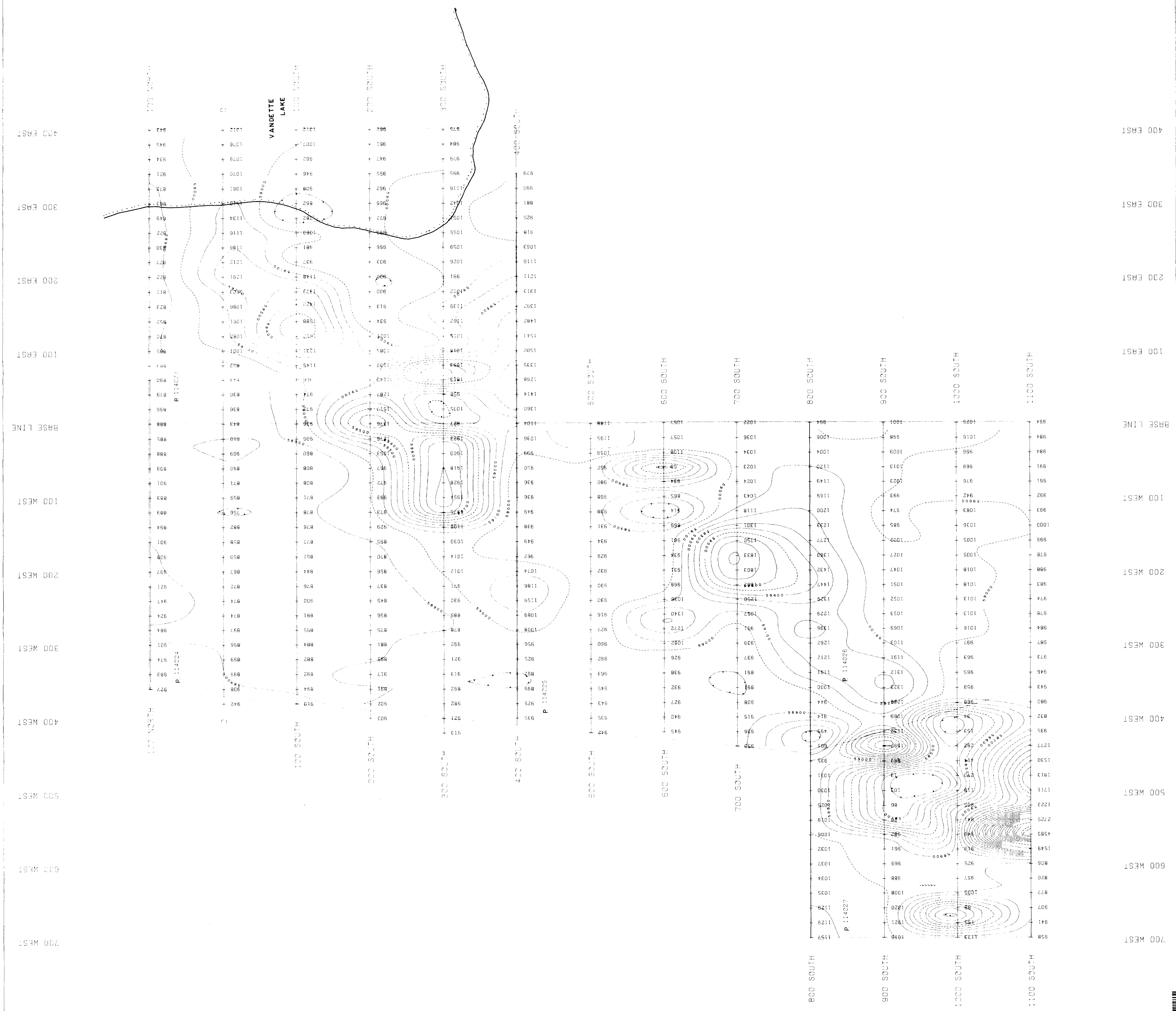
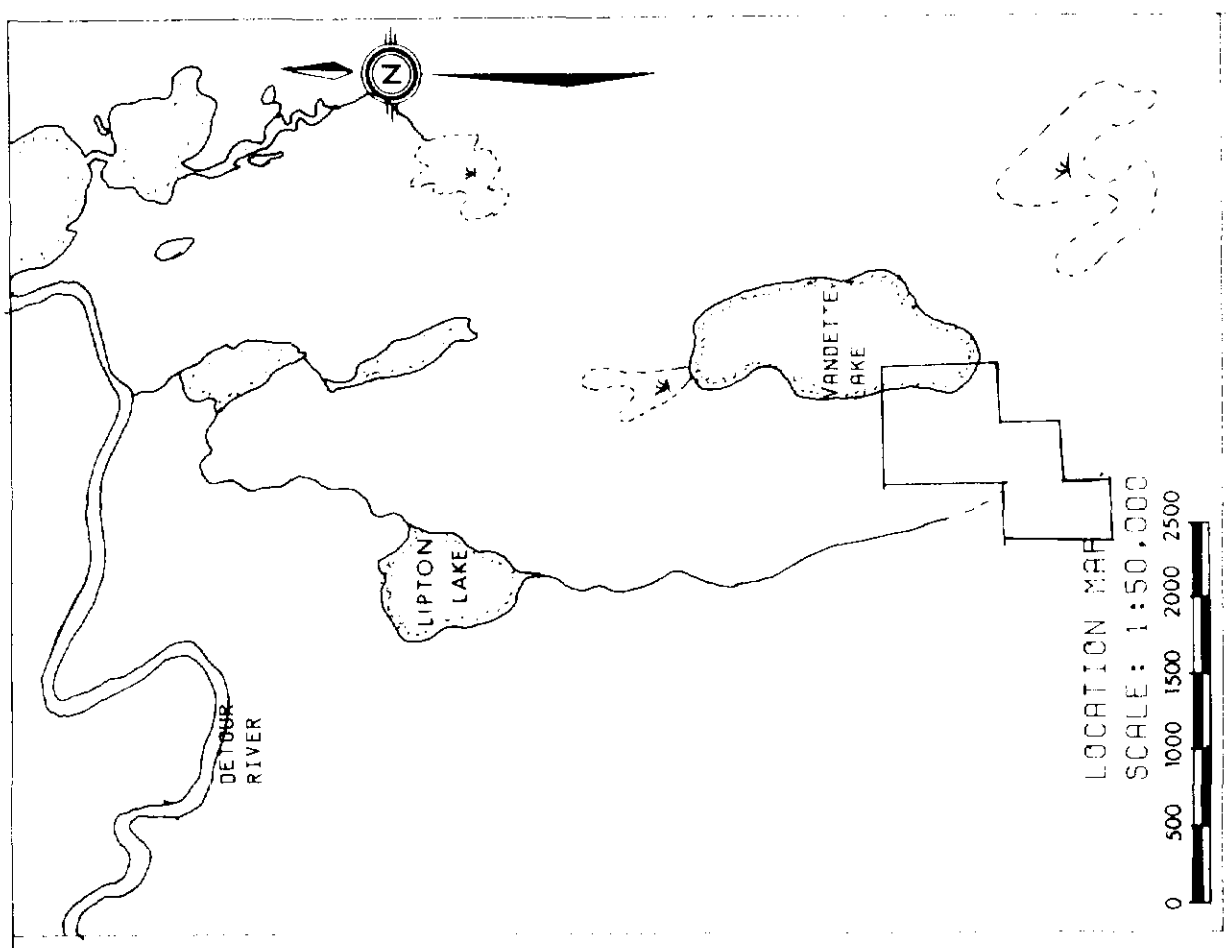
WORK BY: GUY THIBault

DATE: MARCH, 1990

SCALE: 1:2000

N.T.S.: 32 E/13





SP50
MAGNETIC DECLINATION: 014° 08' 00" W
MAGNETIC ANGLE: 100° W
BASE VALUE: 58000 N

- 62500 - 62500
- 61500 - 62000
- 60500 - 61000
- 59500 - 60000
- 58500 - 59000
- 57500 - 58000
- 56500 - 57000
- 55500 - 56000
- 54500 - 55000
- 53500 - 54000
- 52500 - 53000
- 51500 - 52000
- 50500 - 51000
- 49500 - 50000
- 48500 - 49000
- 47500 - 48000
- 46500 - 47000
- 45500 - 46000
- 44500 - 45000
- 43500 - 44000
- 42500 - 43000
- 41500 - 42000
- 40500 - 41000
- 39500 - 40000
- 38500 - 39000
- 37500 - 38000
- 36500 - 37000
- 35500 - 36000
- 34500 - 35000
- 33500 - 34000
- 32500 - 33000
- 31500 - 32000
- 30500 - 31000
- 29500 - 30000
- 28500 - 29000
- 27500 - 28000
- 26500 - 27000
- 25500 - 26000
- 24500 - 25000
- 23500 - 24000
- 22500 - 23000
- 21500 - 22000
- 20500 - 21000
- 19500 - 20000
- 18500 - 19000
- 17500 - 18000
- 16500 - 17000
- 15500 - 16000
- 14500 - 15000
- 13500 - 14000
- 12500 - 13000
- 11500 - 12000
- 10500 - 11000
- 9500 - 10000
- 8500 - 9000
- 7500 - 8000
- 6500 - 7000
- 5500 - 6000
- 4500 - 5000
- 3500 - 4000
- 2500 - 3000
- 1500 - 2000
- 500 - 1000

2.13390

SCALE: 1:20,000
DATE: MARCH, 1950

WESTMIN MINES LTD.
EASTERN CANADA EXPLORATION

ATKINSON PROJECT
VANDETTE CLAIMS
MAGNETOMETRIC SURVEY

WORK BY: GUY THIBRAULT
DATE: MARCH, 1950

SCALE: 1:20,000
N.T.S.: 32 E/13