



32E13SE0001 2.14038 ATKINSON LAKE

010

ATKINSON WEST PROPERTY
ASSESSMENT REPORT
ON LINECUTTING, GEOPHYSICS AND
GEOLOGICAL MAPPING COMPLETED
DURING 1990

2.14038

N.T.S. 32E/13
Latitude 49 53'N
Longitude 79 40'W

June, 1990

Dual.
2.12993
Alan O'Connor, B.Sc.



32E13SE0001 2.14038 ATKINSON LAKE

010C

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File name: Atkwest.rep

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1.0 Summary:

The Atkinson West property consists of 8 contiguous mining claims which cover 128 ha in the Atkinson Lake district, Detour Lake Mine area in northeastern Ontario. The property is located 150 km NE of Cochrane, Ontario and 25 km south of the Detour Lake Mine.

Previous work on the property consists of airborne and ground geophysical surveys as well as diamond drilling completed by both Amoco and Getty Canadian Metals. During the summer of 1989, Westmin completed a program of linecutting (11.84 km) and geological mapping on the eastern portion of the claim group.

The 1990 program consisted of claim staking (2 claims), linecutting (4.72 km), VLF-EM16 (13.8 km) and geological mapping. The mapping program was confined to the two claims staked during the winter of 1990.

Table 1

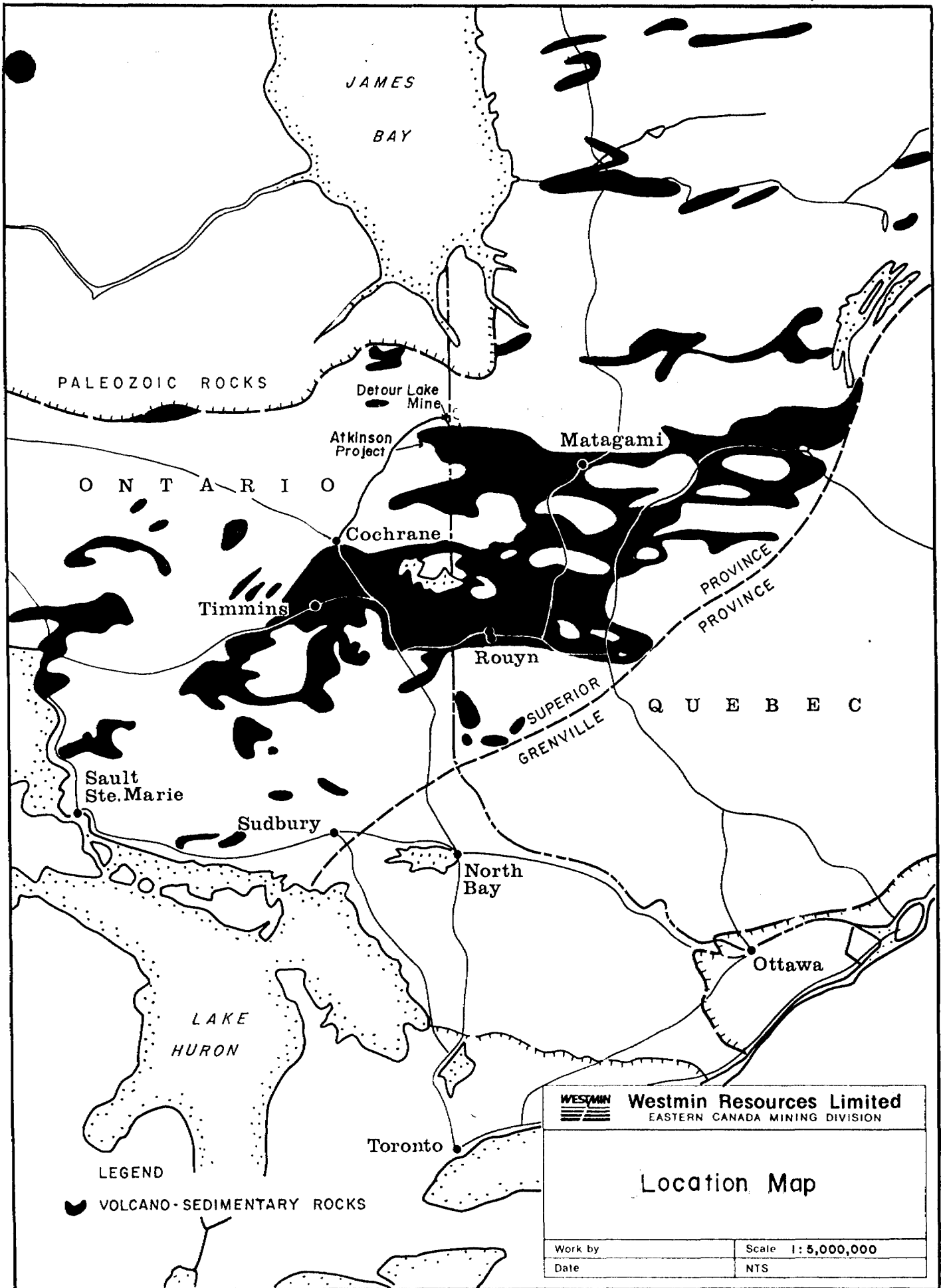
Work Summary

Year	Cut-Line (km)	VLF-EM16 (km)
1989	11.84	-
1990	4.72	13.8
Total:	16.56	13.8

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 (450m/3holes) is required to test the economic potential of this property. A budget of approximately 75,000 dollars is proposed.



Westmin Resources Limited
EASTERN CANADA MINING DIVISION

Location Map

Work by	Scale 1:5,000,000
Date	NTS

Figure 1

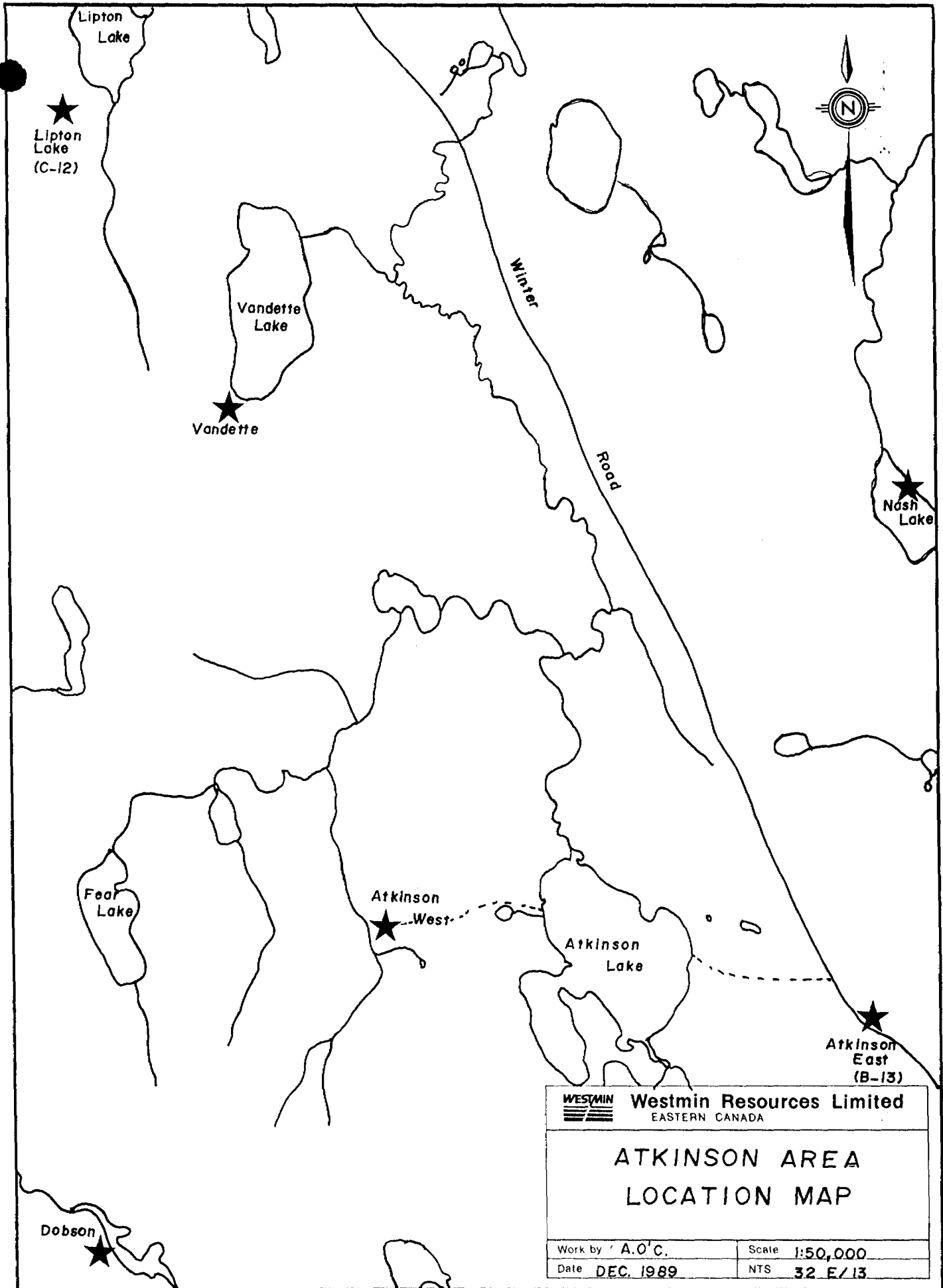


Fig. 2

3.0 Introduction:

This report details the work completed during the 1990 field program and presents an evaluation of the data collected. The report is based upon data gathered by Westmin personnel during June of 1990.

3.1 Location, Access and Topography:

The Atkinson West property is located approximately 150 km northeast of Cochrane, Ontario (N.T.S. 32 E/13) near the Quebec-Ontario border and 25 km south of the Detour Lake minesite (figs. 1,2). An all-weather gravel road which connects Cochrane with the Detour Lake mine site can be used to reach the general project area. A winter road which leads from the minesite 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 enabling the use of an amphibious, tracked vehicle, such as an Argo, for access. Snowmobiles and heavy equipment (skidders, etc) may be used in the winter. An old drill road joins the main road with the grid.

Float and ski equipped fixed wing aircraft may be used to access Atkinson Lake which is located one kilometre to the east of the property. Fixed and rotary winged aircraft bases are located in both Cochrane, Ontario and La Sarre, Quebec.

Topographically, the region is characterized by little 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 the Detour Lake region. Vegetation is typical of the boreal forest with most of the region covered by stands of black spruce and, occasionally, small groves of poplar. To date, there has been no harvesting of trees for economic purposes 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 Atkinson West group consists of 8 contiguous mining claims which cover an area of 128 ha (fig.3). Westmin Mines Ltd. holds a 100% equity interest in the property (Table 2).

3.3 Previous Work:

- 1974 (Report #22): Amoco drilled 2 diamond drill holes on the property for a total of 436.8 metres. These holes intersected graphitic metasediments hosted within siliceous metasediments.
- 1982 (Report #32): Getty Canadian Metals conducted ground EM (Max-MinII) and magnetometer surveys over the property and completed 833.1 metres of diamond drilling in 5 holes. Rock types encountered during this drill program consisted of metasediments, graphitic metasediments and amphibolite.
- 1989: Westmin Mines Limited completed a program of linecutting (11.84 km) and geological mapping which covered the entire property.

3.4 1990 Work Programme:

During March of 1990, 2 claims were staked at the west end of the Atkinson West claim block to cover the extension of a geophysical conductor. The summer work program consisted of linecutting (4.72 km) and geological mapping within the newly staked claims and the completion of a VLF-EM16 survey (13.8 km) over the entire Atkinson West grid.

ATKINSON WEST -PROPERTY STATUS

Location: Atkinson Lake Area (G-1626),
Porcupine Mining Division, Ontario
N.T.S. 32-E-13
Lat. 49 49'15"N
Long. 79 37'W

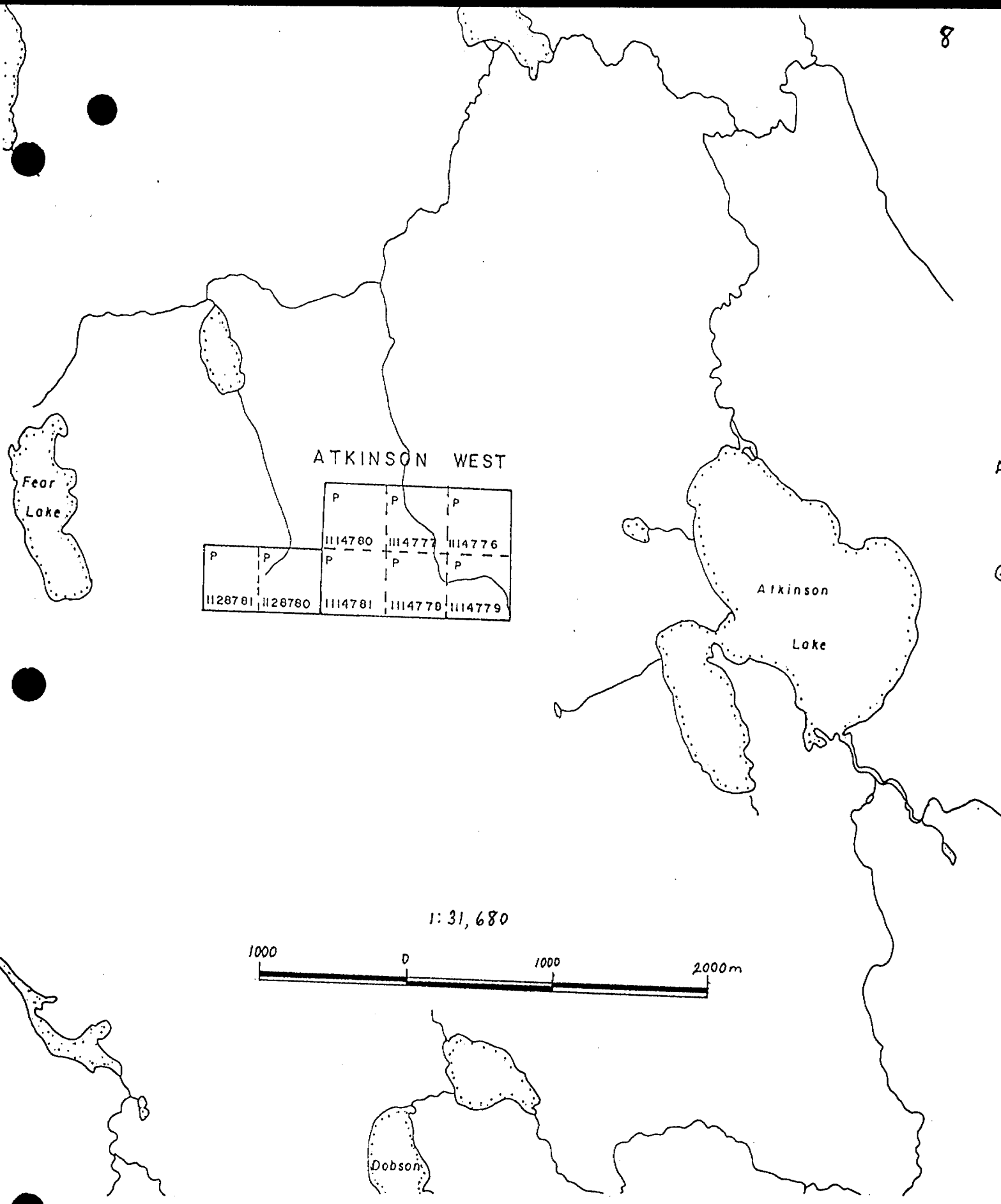
Equity: Westmin Mines Limited 100%

<u>Claims</u>	<u>Recording Date</u>	<u>Lease Due</u>	<u>Assessment Work Due</u>	<u>Filed Work</u>
P.1114776	26 June 1989	26 June 1995	26 June 1991	40
P.1114777	26 June 1989	26 June 1995	26 June 1991	40
P.1114778	26 June 1989	26 June 1995	26 June 1991	40
P.1114779	26 June 1989	26 June 1995	26 June 1991	40
P.1114780	26 June 1989	26 June 1995	26 June 1991	40
P.1114781	26 June 1989	26 June 1995	26 June 1991	40
P.1128780	06 April 1990	06 April 1996	06 April 1991	Nil
P.1128781	06 April 1990	06 April 1996	06 April 1991	Nil

8 claims = 128 ha (320 ac)				240 days

Date: 18 September 1990

Atkinson West, Ontario



AT

Fig. 3

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 is intruded by several diabase dykes which crosscut all other rock types 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 25 km to the north of the property. Currently this deposit contains 7.3 mt of ore grading 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:

A program of linecutting (4.72 km) was completed on the two recently acquired claims at the west end of the claim block. This required extending the baseline 800 m from line 1400 W to line 2200 W. Crosslines were turned off at an angle of 90 degrees from the baseline and were cut to the property boundary. A station spacing of 20 metres was used for the grid. With this recent linecutting program, the total amount of cut line on the Atkinson West property is 16.56 km.

6.0 Geological Survey:

All lines on the recently acquired ground were traversed, however no outcrop was found. The area is covered by muskeg and stands of black spruce with small areas of sparsely vegetated swamp. One drill pad (hole DL-82-10) was located on line 1500 W at 230 S. From the assessment files, the drill record indicates that this hole, which was drilled to a depth of 123.1 metres, intersected graphitic metasediments, siliceous metasediments and amphibolite.

7.0 VLF-EM16 Survey:

A VLF-EM16 survey was completed over the entire grid for a total of 13.8 km. A Geonics instrument was used for the survey with Seattle, Washington used as a transmitting station. Readings were taken facing north at a 20 metre station spacing. Several east-west trending conductors were delineated by the survey, most of which have generally low peak to trough amplitudes. One conductor (100E-700E/250S) shows a good reverse quadrature effect and may therefore represent a bedrock source.

Respectfully submitted by:



Alan J. O'Connor, B.Sc.

Certification

I, Alan J. O'Connor, of 312 St. Clarens Avenue,
Toronto, Ontario, M6H 3W3, 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 five years.
- 3) I have conducted field work on this property,
and supervised the geological, geochemical and
geophysical work described in the report.
- 4) I have no financial interest in the property.

June, 1990


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

References

Johns, G.W., (1982)

Geology of the Burntbush-Detour Lake
Areas. Ontario Geological Survey
Report 199.



Ontario

Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File _____

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) LINECUTTING, GEOLOGICAL, GEOPHYSICAL

Township or Area ATKINSON LAKE AREA (G-1626)

Claim Holder(s) WESTMIN RESOURCES LIMITED

Survey Company WESTMIN MINES LIMITED

Author of Report ALAN O'CONNOR

Address of Author 312 ST. CLARENS AVE, TORONTO, ONT. M6H 3W3

Covering Dates of Survey JUNE 4-5, 7-13, 1990 (linecutting to office)

Total Miles of Line Cut 4.72 km

MINING CLAIMS TRAVERSED
List numerically

- P. 1114776 (prefix) (number)
P. 1114777
P. 1114778
P. 1114779
P. 1114780
P. 1114781
P. 1128780 *
P. 1128781 *

* denotes work only applied to those claims marked

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

Geophysical

DAYS per claim

--Electromagnetic 20

--Magnetometer

--Radiometric

--Other

Geological 40*

Geochemical

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

Magnetometer Electromagnetic Radiometric (enter days per claim)

DATE: April 3/91 SIGNATURE: [Signature] Author of Report or Agent

Res. Geol. Qualifications 2.12993

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder

TOTAL CLAIMS 8

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 _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument VLF-EM16 (GEONICS)

Coil configuration _____

Coil separation _____

Accuracy ± .5%

Method: Fixed transmitter Shoot back In line Parallel line

Frequency Seattle, Washington
(specify V.L.F. station)

Parameters measured In-phase + out-of-phase

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 _____

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) _____

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 _____

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 _____



Mining Act
Report of Work
(Geophysical, Geological and Geochemical St)

Type of Survey(s) LINECUTTING, GEOLOGICAL + GEOPHYSICAL	Mining Division PORCUPINE	Township or Area ATKINSON LAKE AREA (G-1626)
Recorded Holder(s) WESTMIN RESOURCES MINES LIMITED	Prospector's Licence No. F-4638 F-778	
Address P.O. Box 49066, BENTALL CENTRE, VANCOUVER, B.C. V7X 1C4		Telephone No. (604) 681-2253
Survey Company WESTMIN MINES LIMITED 2.19038		
Name and Address of Author (of Geo-Technical Report) A.O'CONNOR, 312 ST. CLARENS AVE, TORONTO, ONTARIO M6H 3W3		Date of Survey (from & to) (See below) Day Mo. Yr. Day Mo. Yr.

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

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

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1114776				
P	1114777				
P	1114778				
P	1114779				
P	1114780				
P	1114781				
P	1128780*				
P	1128781*				

DATES OF SURVEY
JUNE 4-5/90 AND
JUNE 7-13/90

* denotes work only applied to these claims

RECORDED
APR - 5 1991

ONTARIO GEOLOGICAL SURVEY
GIS-ASSESSMENT FILES
MAY 27 1991
RECEIVED

RECEIVED
APR 22 1991
MINING LANDS SECTION
Total number of mining claims covered by this report of work. **8**

Total miles flown over claim(s).	
Date	Recorded Holder or Agent (Signature)
APRIL 3/91	<i>[Signature]</i>

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 CHRISTOPHER J. ROCKINGHAM, P.O. Box 49066, BENTALL CENTRE, VANCOUVER, B.C.			
Telephone No. V7X 1C4 (604) 681-2253		Date APRIL 3 1991	Certified By (Signature) <i>[Signature]</i>

For Office Use Only

Total Days Cr. Recorded 240	Date Recorded APRIL 5/91	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded MAY 13/91	Provincial Manager, Mining Lands <i>[Signature]</i>

RECEIVED
APR 5 1991
2:00 pm



Westmin Resources Limited
Suite 904, 1055 Dunsmuir Street
P.O. Box 49066, The Bentall Centre
Vancouver, B.C., Canada V7X 1C4
604 681-2253 Telex: 04-51573
Telecopier: 604 681-0357

April 3, 1991

RECEIVED
3/34

APR 04 1991

MINING LANDS SECTION

VIA COURIER

Land Management Branch
Mining Land Section
Ministry of Northern Development
and Mines
4th Floor, 159 Cedar Street
Sudbury, Ontario
P3E 6A5

Dear Sir:

RE: **ASSESSMENT REPORT ON LINECUTTING,
GEOPHYSICS AND GEOLOGICAL MAPPING
COMPLETED DURING THE SUMMER OF 1990,
ATKINSON WEST CLAIMS**

Please find enclosed in duplicate the above-mentioned report and Technical Data Statement form. The Report of Work form has been forwarded to the Mining Recorder, Timmins.

Please note that on the form Westmin Resources Limited is shown as the recorded holder. On December 31, 1990 an amalgamation occurred between Westmin Mines Limited (WML) and Westmin Resources Limited (WRL). A name change, from WML to WRL, on all our Ontario claims and mining leases is being handled by a third party and I am unsure at present if the change has been made at all Mining Recorders' locations.

I hope you find everything in order.

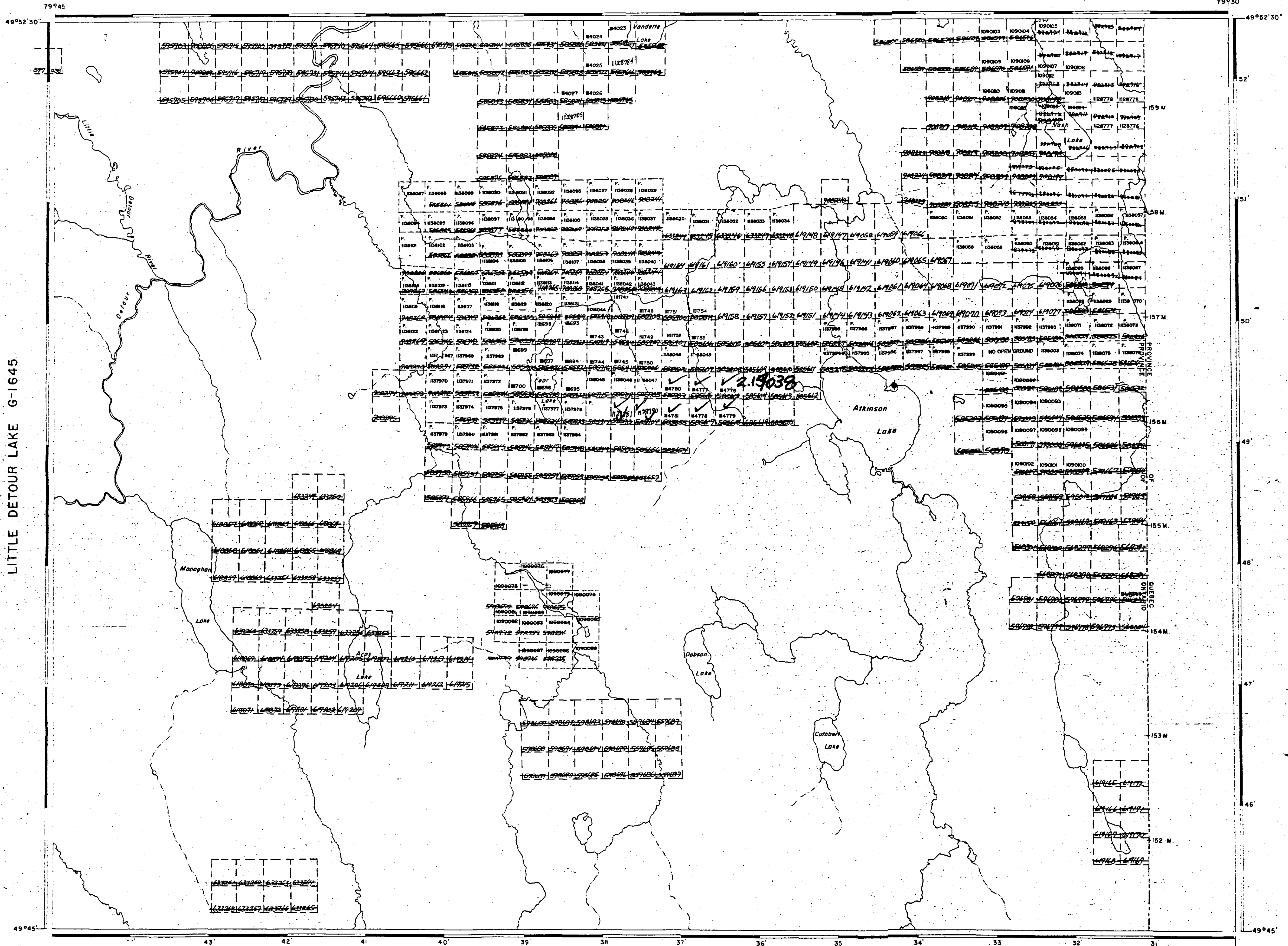
Sincerely,

WESTMIN RESOURCES LIMITED

Janet M. S. Hopkins, B.Sc.
Administrative Geologist

JMSH/blj
JMSH/B91.001

LOWER DETOUR LAKE G-1647



LITTLE DETOUR LAKE G-1645

KINGROY LAKE G-1643

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

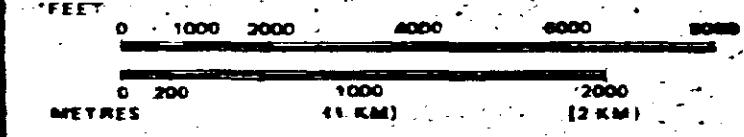
DISPOSITION OF CROWN LANDS

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	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

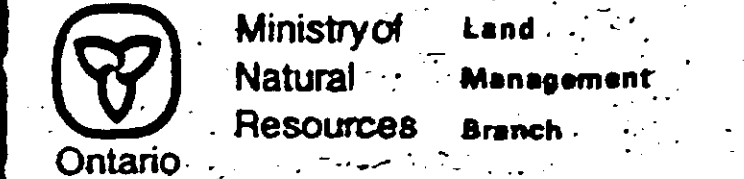
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 1, 1915, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 280, SEC. 43, SUBSEC. 1.

REMOTE TOURIST CAMP

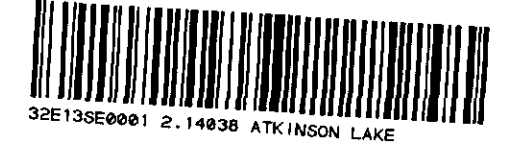
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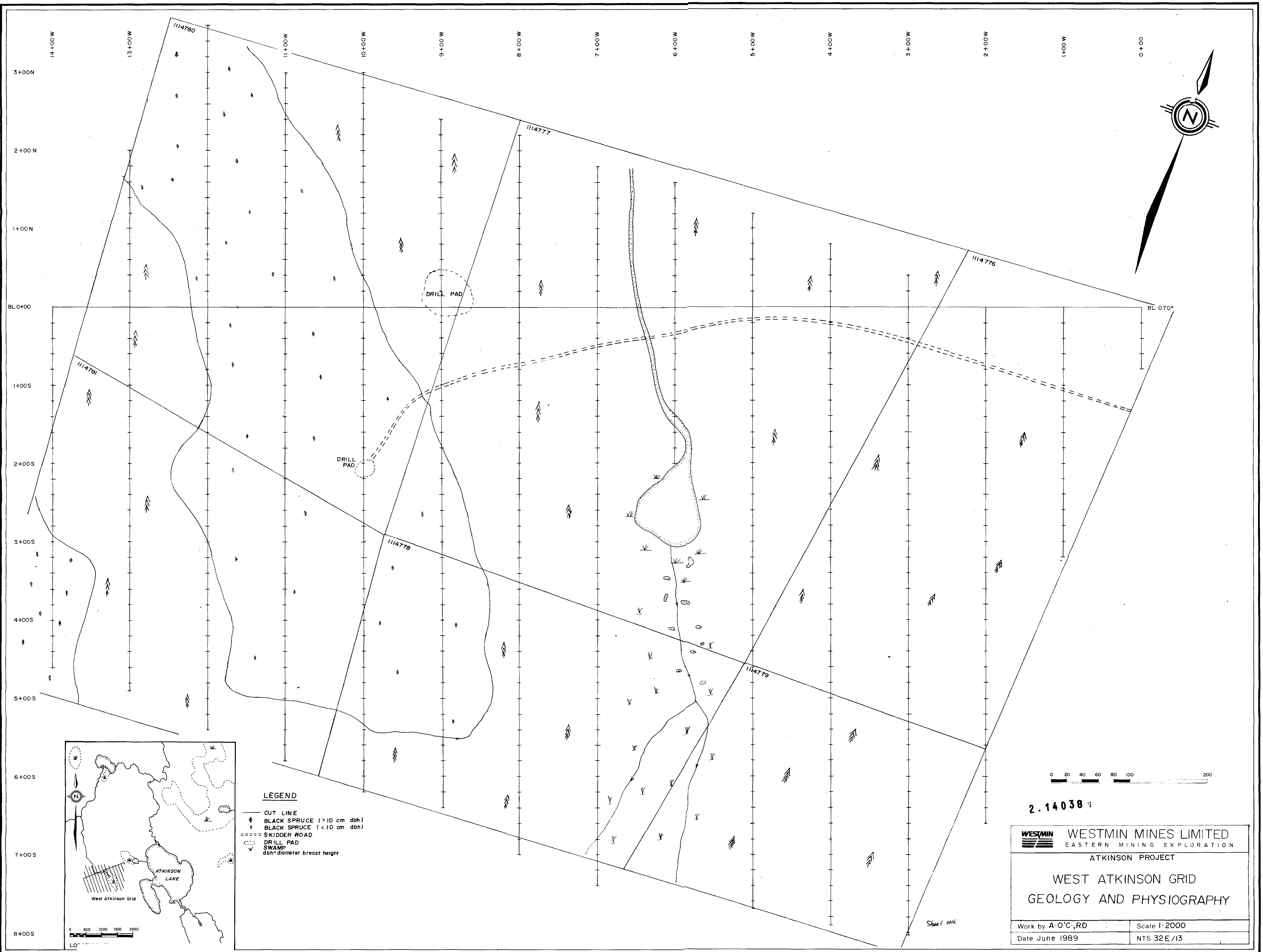


AREA
ATKINSON LAKE
 M.N.R. ADMINISTRATIVE DISTRICT
 COCHRANE
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 COCHRANE



Date: DECEMBER 1982
 Sheet: G-1626





LEGEND

- CUT LINE
- ♣ BLACK SPRUCE (>10 cm dbh)
- ♠ BLACK SPRUCE (<10 cm dbh)
- SKIDDER ROAD
- DRILL PAD
- ▨ SWAMP
- dbh=diameter breast height

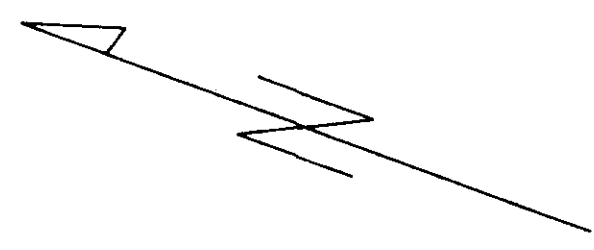
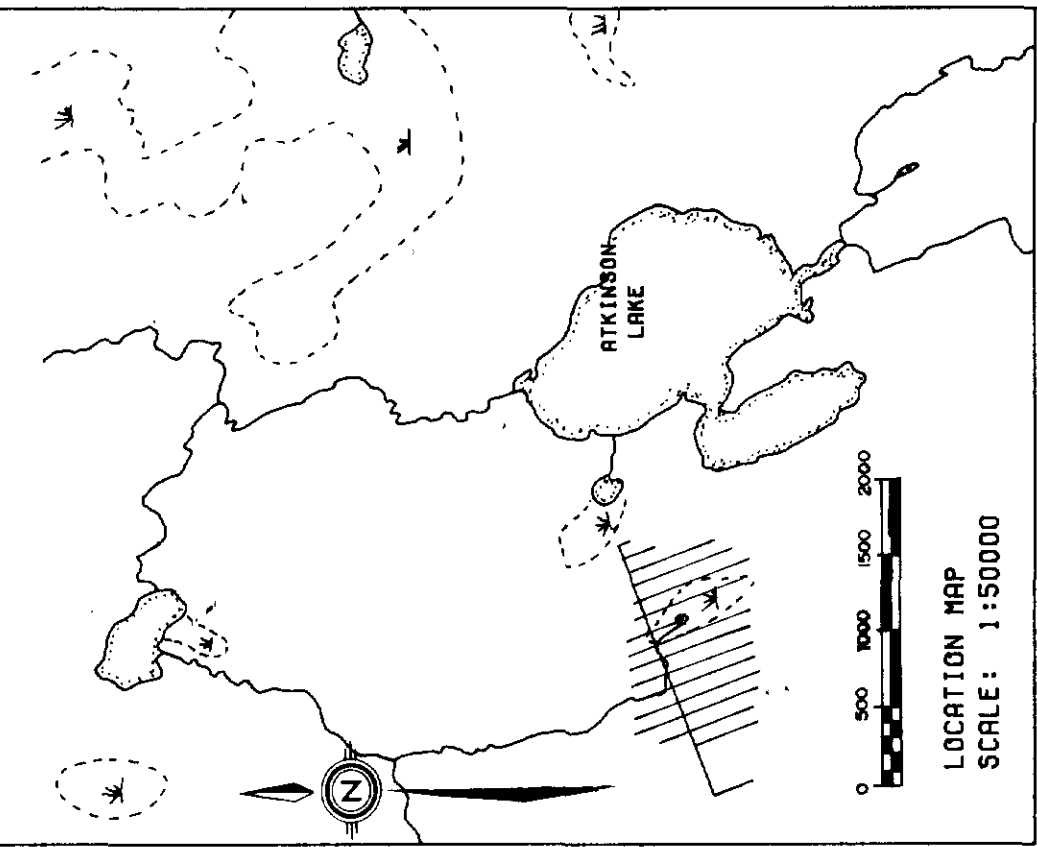
2.14038

WESTMIN MINES LIMITED EASTERN MINING EXPLORATION ATKINSON PROJECT	
WEST ATKINSON GRID GEOLOGY AND PHYSIOGRAPHY	
Work by A.O'C.,RD	Scale 1:2000
Date June 1989	NTS 32E/13

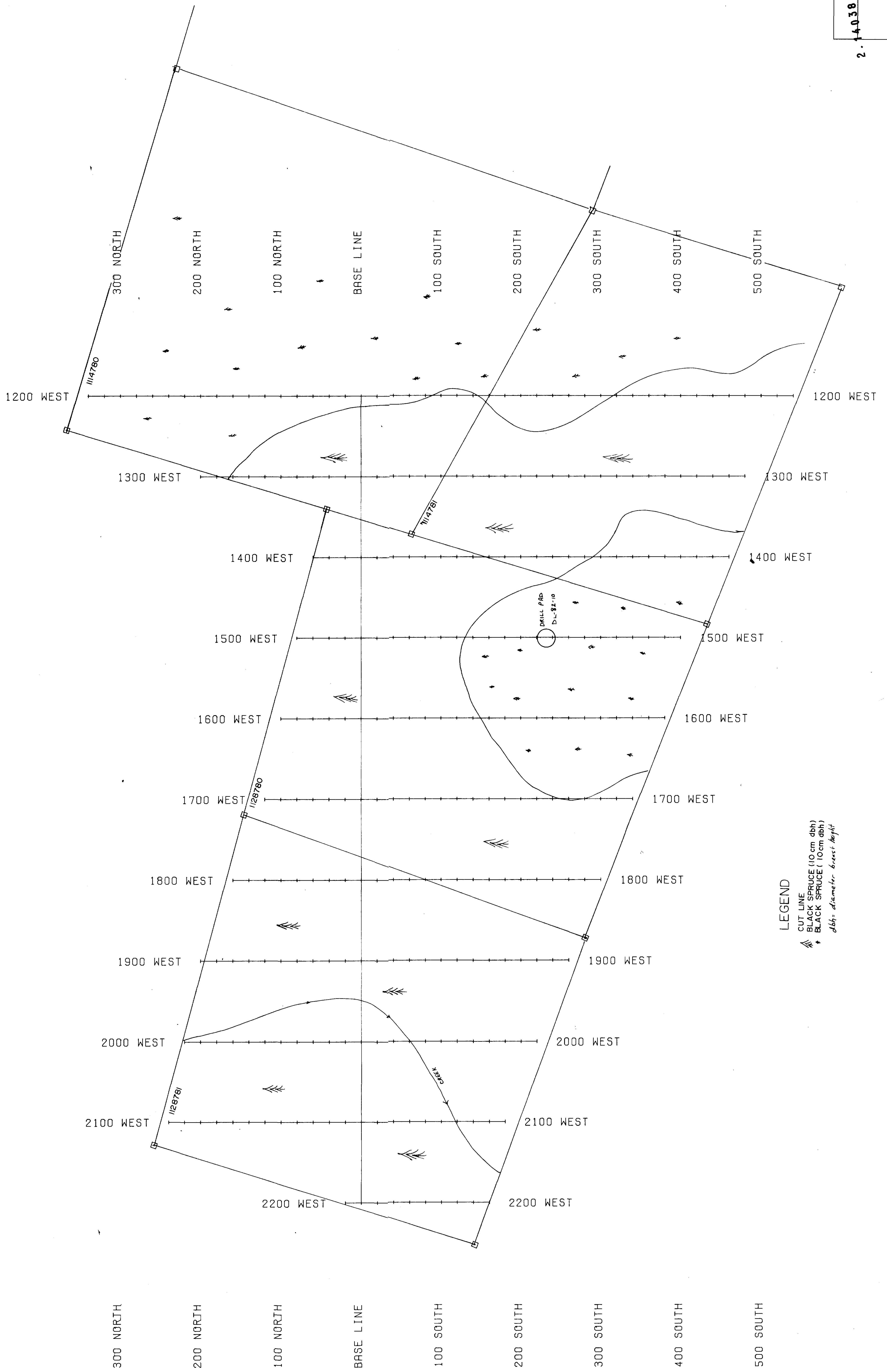
Sheet ONE

Figure 4a





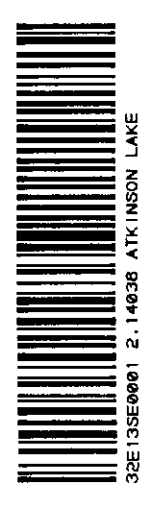
LEGEND
 CUT LINE
 BLACK SPRUCE (>10 CM DBH)
 BLACK SPRUCE (<10 CM DBH)
 SKIDDER ROAD
 SKIDDER POND
 SHARP

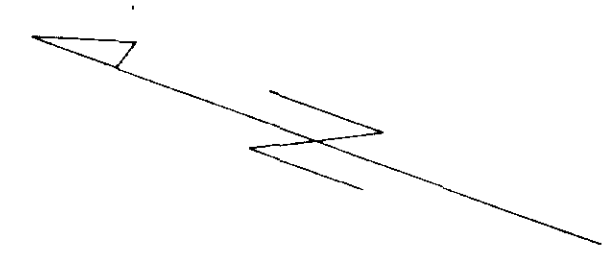
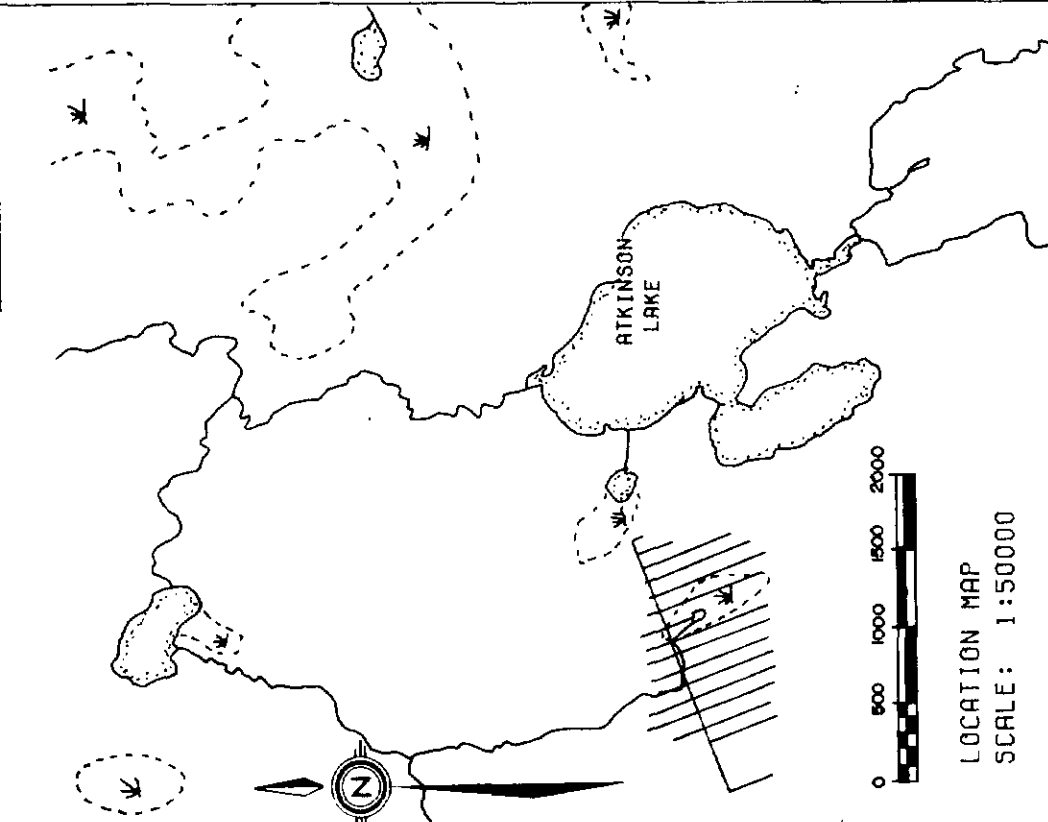


LEGEND
 CUT LINE
 BLACK SPRUCE (10 cm dbh)
 BLACK SPRUCE (<10 cm dbh)
 dbh: diameter breast height

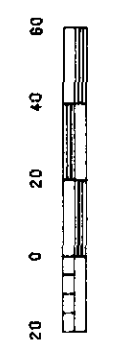
2. 14030 WESTMIN MINES LTD.
 EASTERN CANADA EXPLORATION
 ATKINSON PROJECT
 WEST ATKINSON GRID
 GEOLOGY AND PHYSIOGRAPHY
 WORK BY: CLAUDE BISAILLON SCALE: 1:2000
 DATE: JUNE, 1990 N.T.S. 92 E/13

SHEET TWO





LEGEND
 INSTRUMENT USED: GEONICS VLF-EM16
 IN PHASE: PLOTTED ON LEFT HAND QUADRANT
 IN PHASE: PLOTTED ON RIGHT HAND QUADRANT
 IN PHASE: SOLID LINE
 IN PHASE: DASHED LINE
 SCALE: CM 1:200
 CONDUCTOR AXIS: —

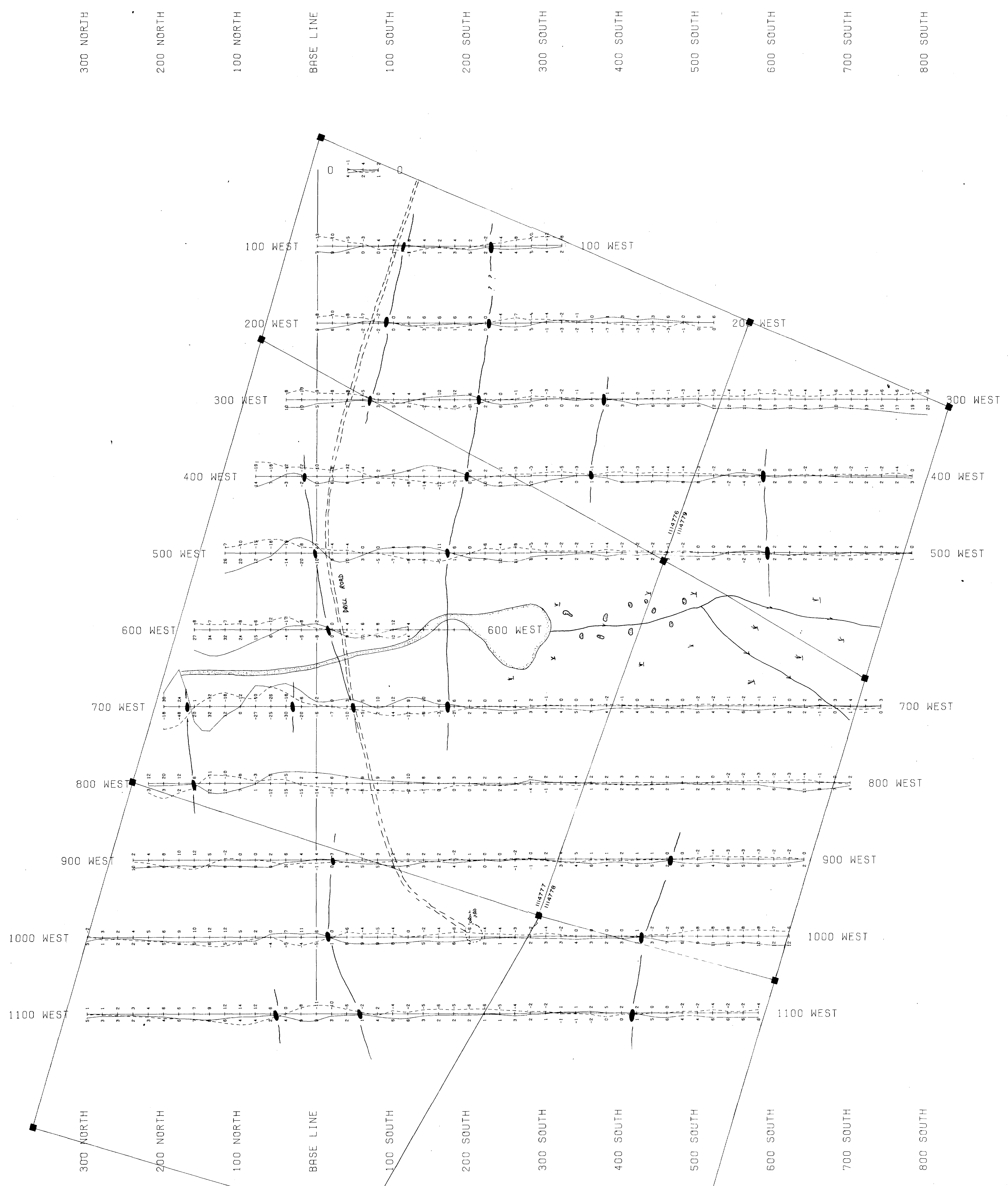


2.14038

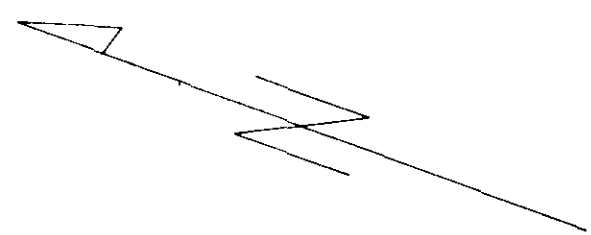
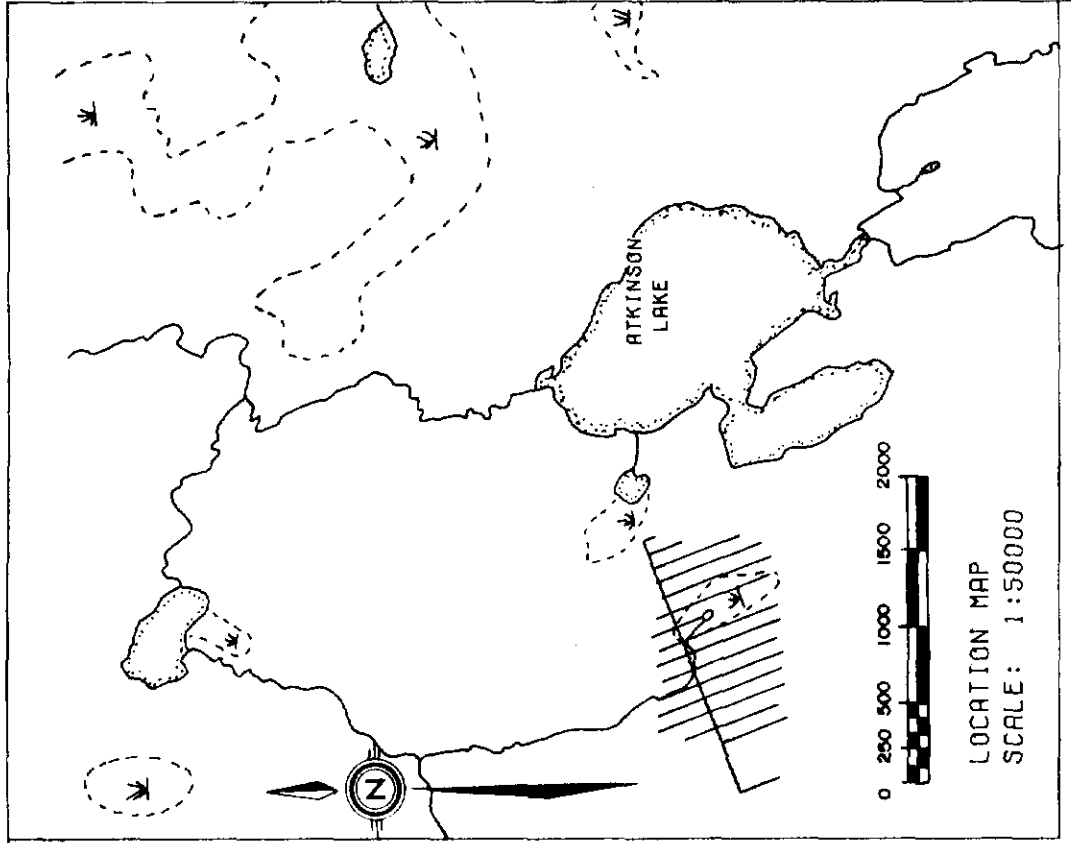
WESTMIN MINES LTD.
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 ATKINSON PROJECT
 WEST ATKINSON GRID
 VLF-EM16 SURVEY

WORK BY: CLAUDE BISSAILLON
 DATE: JUNE, 1980
 SCALE: 1:2000
 N.T.S.: 32 E/13

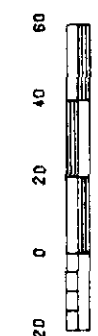
SHEET ONE



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LEGEND
 INSTRUMENT USED: GEONICS VLF-EMIS
 STATION USED: SEATTLE, WASHINGTON
 SURVEY METHOD: VLF-EMIS
 SUBSURFACE: PLOTTED ON RIGHT
 IN PHASE: SOLID LINE
 OUT OF PHASE: DASHED LINE
 POSITIVE TO LEFT
 CONDUCTOR AXIS: —●—



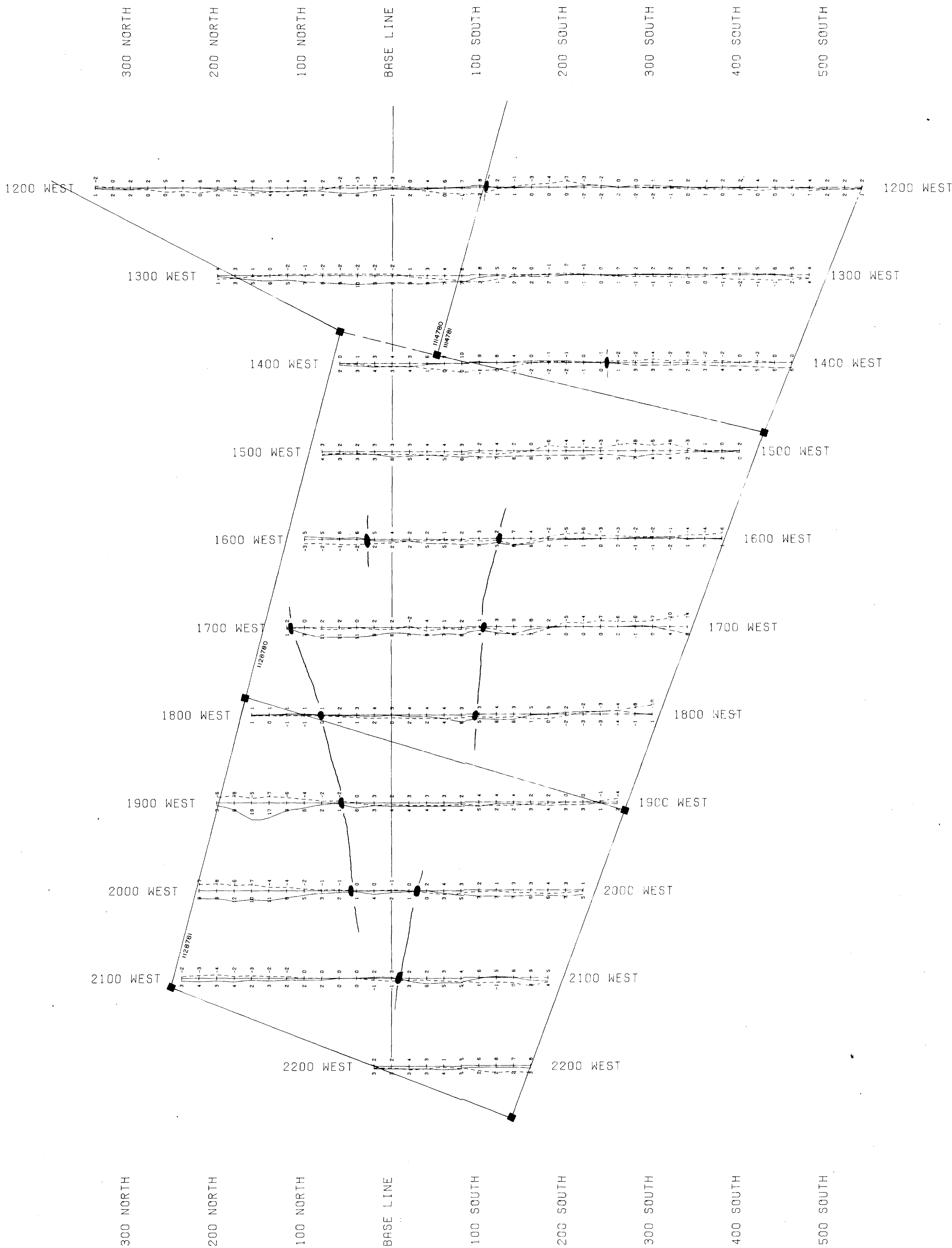
2.14038^A

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 ATKINSON PROJECT
 WEST ATKINSON GRID
 VLF-EMIS SURVEY

WORK BY: CLAUDE BIRAILLON
 DATE: JUNE, 1990
 SCALE: 1:2000
 N.T.S.: 32 E/13

Figure 56

SHEET TWO



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