



41P11SW0251 2.4364 ASQUITH

010

GEOLOGICAL REPORT

O F

WEST SHININGTREE PROPERTY

ASQUITH TOWNSHIP

LARDER LAKE MINING DIVISION

DISTRICT OF SUDBURY

SHININGTREE, ONTARIO

RECEIVED

DEC - '71981

MINING LANDS SECTION

NOVEMBER, 1981

LD

A. INTRODUCTION

The West Shiningtree Property is located in the northwest corner of Asquith Township, near Shiningtree, Ontario. It consists of two contiguous claims (L531394 and L 531395) which were held under option from R. Annett of Shiningtree, Ontario, by Patino Mines (Quebec) Limited. The option agreement was dropped in November, 1981.

During June, 1981, the author mapped the claim group for Patino Mines (Quebec) Limited.

B. LOCATION AND ACCESS

The property is located at southwest corner of the West Arm of West Shiningtree Lake, about one mile (1.6 km) west of the village of Shiningtree, Ontario.

The claims are accessible by boat via West Shiningtree Lake and the creek which drains into the lake.

C. TOPOGRAPHY

The topography of the area consists of well exposed outcrop in the northern part of the claims, swamp along the creek bed and open spruce, birch, balsam and cedar forest in the remaining part of the area.

D. PREVIOUS WORK

The only previous mention of the property available in the assessment file was a report by Burke, 1959 "West Shiningtree Gold area". Basically he discusses various properties in the Shiningtree area and the general geology of the area. His basic premise is that all the gold is in shear zones in the basic volcanics. The present West Shiningtree property is referred to as the McGuire-Nault property which has several quartz veins 8-10" wide with visible gold present. This is "apparently" associated with an E-W fault structure.

In December, 1980, magnetometer and EM-16 surveys were conducted by Exploration Services Reg'd on a grid with cut lines spaced every 400 feet. Using these and additional cut lines, geological mapping (1" to 200' scale) of the claims was completed in June, 1981.

E. GENERAL GEOLOGY

Asquith Township is underlain by Early to Middle Precambrian rocks which are overlain by a veneer of Pleistocene and recent deposits.

The Early Precambrian rocks consist of mafic to felsic metavolcanic rocks, mafic to ultramafic intrusives, intermediate to felsic intrusive rocks, and diabase dykes.

The geology around the claim group is characterized by east-west striking, south dipping amphibolites (?) and felsic flows according to Carter (1979). Small hornblende-bearing syenite and granite

bodies occur to the west and northwest of the claims. The area is cross-cut by northwest striking diabase dykes.

F- GEOLOGY OF THE WEST SHININGTREE AREA

TABLE OF GEOLOGICAL UNITS

Early to Late Precambrian

Mafic Intrusive Rocks

(7) Pyroxenite dykes

(6) Gabbro

Intermediate to Felsic meta-pyroclastic rocks

(5) Tuffs

Felsic Metavolcanic Rocks

(4) Metarhyolite

(3) Meta-dacite

Intermediate Metavolcanic Rocks

(2) Meta-andesite flows

Mafic Metavolcanic Rocks

(1) Meta-basalt flows

(1) BASALT

Minor outcrop exposure of basaltic flows occurs in the southwest corner of the property. The unit weathers a medium grey colour and has a dark grey-green fresh surface.

The basalt is slightly porphyritic with 5 to 15% plagioclase phenocrysts (1 mm) in a chloritized groundmass. The unit is generally fine grained and slightly schistose.

(2) ANDESITE

Only a few outcrops of andesite are observed in the central and southern part of the property. It is characterized by a medium to light green weathered surface and a medium to light green fresh surface. The andesite is fine grained, schistose as well as chloritized.

(3) DACITE

East-west striking dacite unit occurs in the northern part of the property. The dacite flows are fine grained and slightly foliated with light green-pink weathered surfaces and light grey fresh surface. Typically, the unit contains 5-10% quartz eyes and 5-15% plagioclase phenocrysts.

Well developed flow breccias are observed locally.

(4) RHYOLITE

The rhyolite flows weather a rubbly light whitish-pink colour while the fresh surface is grey in colour. The rhyolite unit is siliceous in nature, fine grained to aphanitic with 10 to 15% quartz eyes.

Local flow breccias are observed.

(5) TUFFS-INTERMEDIATE TO FELSIC PYROCLASTIC ROCKS

Pyroclastic rocks of felsic to intermediate composition are one of the predominant rock types in the map area. The dacitic, fine ash

tuffs exhibit fine mm-scale bedding and both fresh and weathered surfaces are light grey in colour. The andesitic to dacitic coarse ash tuff occurs only in the vicinity of the creek. These tuffs are more chloritic and exhibit moderate bedding. The higher percentage of slightly coarser grained chloritic fragments gives the rock type its coarser appearance.

(6) GABBRO

The gabbro occurs in the southern and most northern part of the map area. It is characterized by a dark grey knobby weathered surface and a dark grey fresh surface, medium to coarse grained textures. The gabbro consists of 30% feldspar and 70% amphibole and appears to be relatively fresh. This suggests that the unit is proterozoic in age and may represent Nipissing diabase.

(7) PYROXENITE

North-south striking dykes are characterized by chocolate-brown weathered surfaces and black fresh surfaces. They occur mainly within the felsic tuffs and flows with some dykes within the gabbro. The pyroxenites are medium grained and contain less than 10% feldspar.

G- STRUCTURE

The metavolcanic rocks have a west, north west strike and dip to the south about 55°. The units probably represent a limb of a

major fold in the area. The metavolcanic rocks are cross-cut by a gabbro body to the west and southeast of the metavolcanic rocks.

H- ECONOMIC GEOLOGY

The main area of interest on the property is a 150 foot long trench and 10 foot deep pit which are just west of L4+00E at 4N within the felsic tuffs. In this trench there is a quartz vein which is about 12" wide with a strike length of 6-10 feet. Presumably the previous gold bearing quartz veins were along this trench and are now largely removed. Assay values show that only trace Au values are present. Although several other pits and trenches have been located they are of no consequence since they are all in overburden.

I DISCUSSION AND RECOMMENDATIONS

It is believed that the potential for any Au-bearing rocks on the West Shiningtree property is quite low. Since the rocks are predominantly felsic rather than mafic or ultramafic, this suggests that the environment for Au-mineralization is not appropriate. Also any quartz veins present have been sampled and indicate only trace gold values. There is no evidence for shear zones proposed by Burke in the 1959 report, only tuffaceous felsic rocks.

Respectfully submitted,



Peter Born

REFERENCE

Carter, M.W. (1979): Asquith Township, District of Sudbury,
O.G.S. Preliminary Map 2312,
Geol. Series, Scale: 1: 15 840 or 1 inch to $\frac{1}{4}$ mile.



Ministry of
Natural
Resources

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)



41P11SW0251 2.4364 ASQUITH

900

(File 2531394) The Mining Act

Do not use shaded areas below.

Type of Survey(s) Geological	Township or Area Asquith
Claim Holder(s) Timmins Gold Resources 1417 Watersedge Rd. Mississauga Ontario L5T 1A1	Prospector's Licence No. T 1166
Survey Company Patino Mines (Quebec) Limited	Survey Dates (linecutting to office) 1 12 80 30 11 81 Day Mo. Yr. Day Mo. Yr.
Name and Address of Author (of Geo-Technical report) Peter Bern Box 8000 Chibougamau Quebec G8P 2L1	Total Miles of line Cut 3.7 mi

Special Provisions Credits Requested

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	531394	20			
	531395	20			

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ + **15** = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Report Completed

Date of Report: **Dec 1 1981**

Recorded Holder or Agent (Signature): *Peter Bern*

For Office Use Only

Total Days Cr. Recorded: **40**

Date Recorded: **DEC 22 1981**

Date Approved as Recorded: **82.07.19**

Total number of mining claims covered by this report of work. **2**

Mining Recorder: *Hoting*

Regional Branch Director: *[Signature]*

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: **Peter Bern Box 8000 Chibougamau Quebec G8P 2L1**

Date Certified: **Dec 1 1981**

Certified by (Signature): *Peter Bern*

RECEIVED

JAN 12 1982

MINING LANDS SECTION

RECEIVED

DEC 22 1981



Ministry of Natural Resources

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.

RECEIVED

DEC - 7 1981

MINING LANDS SECTION

Type of Survey(s) Geological
Township or Area Asquith
Claim Holder(s) Timmins Gold Resources 1417 Watersedge
Mississauga Ontario L5T 1R4
Survey Company Petina Mines (Quebec) Limited
Author of Report Peter Born
Address of Author Box 8000 Chibougamau Quebec
Covering Dates of Survey 01-12-80 to 30-11-81
(linecutting to office)
Total Miles of Line Cut 3.7 mi

MINING CLAIMS TRAVERSED
List numerically

L 531 394
(prefix) (number)
531 395

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 _____
 - Radiometric _____
 - Other ? _____
- Geological _____
- Geochemical _____

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

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

DATE: Dec 1 1981 SIGNATURE: Peter Born
Author of Report or Agent

Res. Geol. _____ Qualifications 2.3604

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 2

If space insufficient, attach list

OFFICE USE ONLY

2.4364

December 14, 1981

2.4364

Office of the Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L.531394 et al, in the Township of Asquith.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

J. Skura/bk

cc: Timmins Gold Resources
Mississauga, Ontario

cc: Patino Mines (Quebec) Limited
Chibougamau, Quebec
Attention: Peter Born

Mining Lands Comments

To: Geophysics

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geology - Expenditures

Mr. Kuska

Comments

Approved

Wish to see again with corrections

Date

June 16/82

Signature

C. Kuska

To: Geochemistry

Comments

Approved

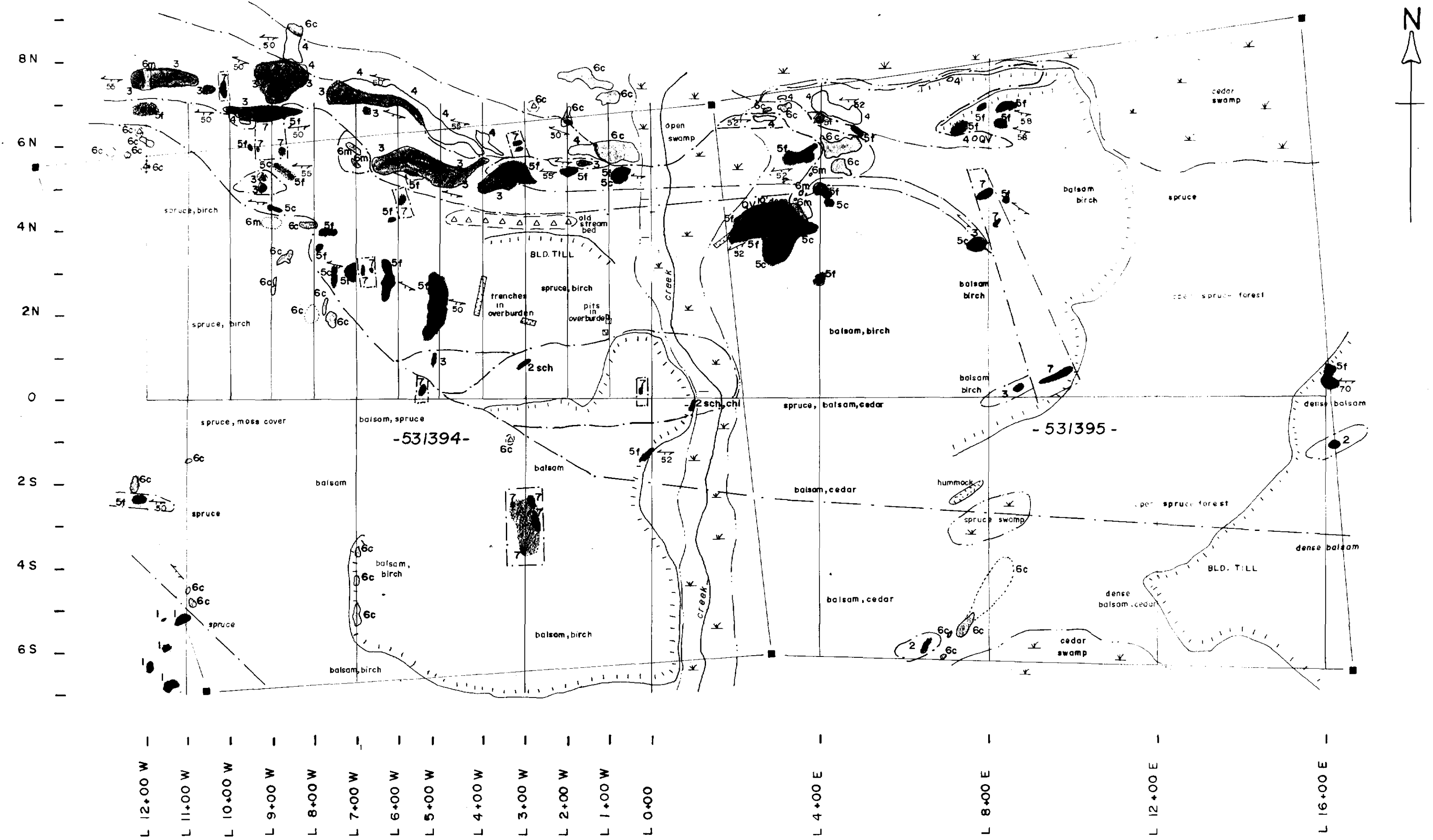
Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)



LEGEND

EARLY TO LATE PRECAMBRIAN

MAFIC INTRUSIVE ROCKS

- 7 Pyroxenite dykes
- 6 Gabbro
 - 6m medium-grained diabase
 - 6c coarse-grained gabbro

INTERMEDIATE TO FELSIC META-PYROCLASTIC ROCKS

- 5 Tuffs (dacite to andesite composition)
 - 5f fine grained ash tuff (dacite)
 - 5c coarse grained ash tuff (dacite to andesite)

FELSIC METAVOLCANIC ROCKS

- 4 Meta-rhyolite flows
- 3 Meta-dacite flows

INTERMEDIATE METAVOLCANIC ROCKS

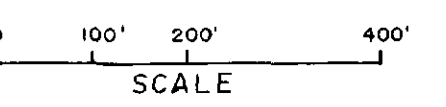
- 2 Meta-andesite flows
 - 2sch - schistose
 - 2chl - chloritized

MAFIC METAVOLCANIC ROCKS

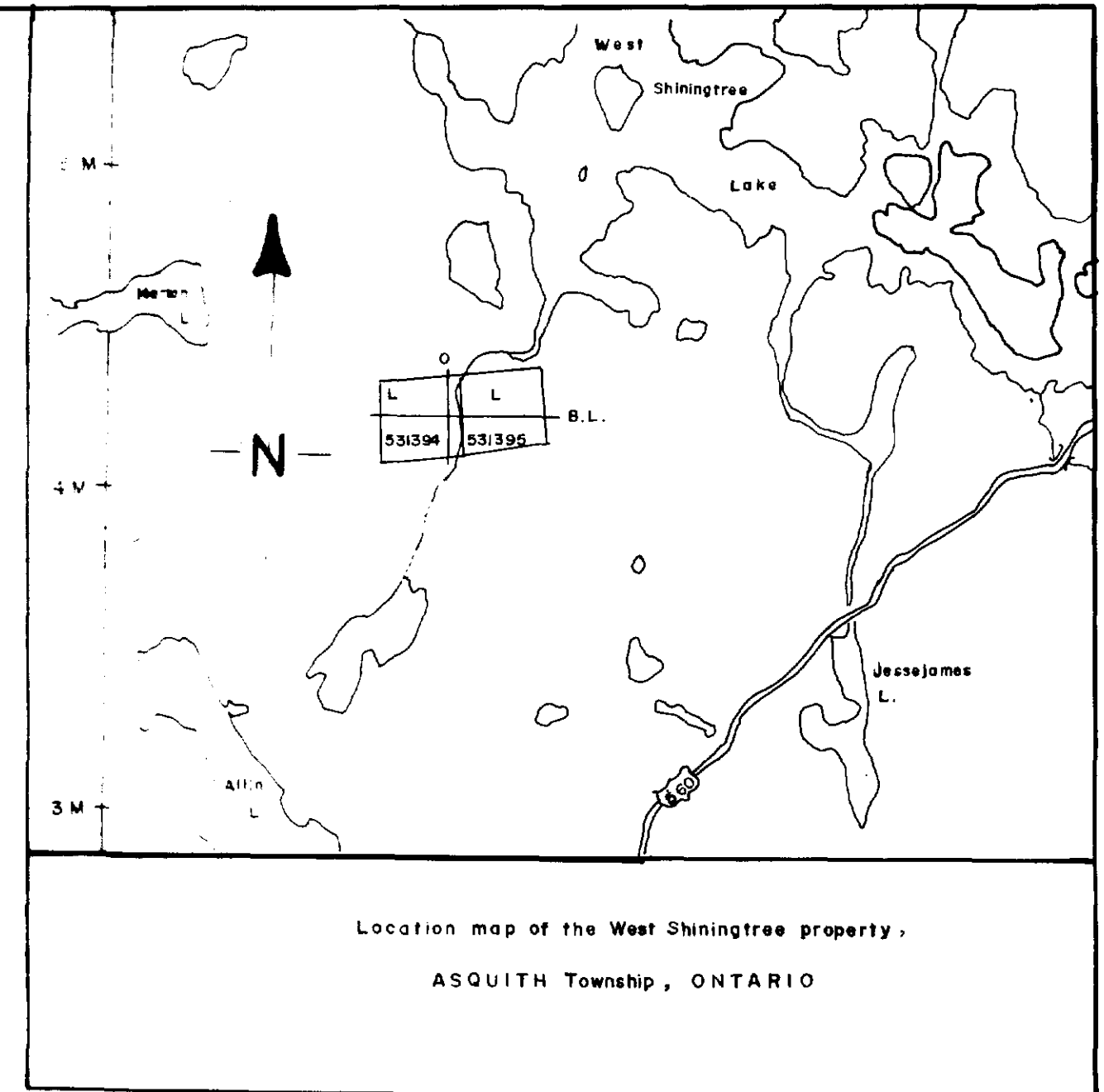
- 1 Meta-basalt flows

SYMBOLS

- qv QUARTZ VEINING
- EXTENT OF OUTCROP AREA
- EXTENT OF SUBOUTCROP AREA
- EXTENT OF SWAMP AREA
- EXTENT OF GLACIAL HUMMOCKS
- EXTENT OF GLACIAL TILL RIDGES & HILLS
- △ BOULDERS
- TRENCH, PIT
- GEOLOGICAL CONTACT, ASSUMED, KNOWN
- 33 FOLIATION: VERTICAL, DIPPING, DIP UNKNOWN
- , ○ CLAIM POST; KNOWN, INFERRED POSITION



SCALE
GEOLOGY by Peter BORN, June, 1981



Location map of the West Shiningtree property,
ASQUITH Township, ONTARIO

PATINO MINES QUEBEC LIMITED Exploration Department		
Geology of the West Shiningtree property, Asquith Township, Ontario		
draughted by PB	date 07/81	Scale
conducted by Peter Born	date 06/81	1 in. to 200 ft.
checked by PB	date 07/81	Drawing N ^o 1



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