

31L11SE2002 2.19

BUTLER

010

SUMMARY REPORT

FOR

W. C. SYMONDS

ON

STRIPPING AND TRENCHING

VERMICULITE

AT

BUTLER TOWNSHIP
SUDBURY MINING DIVISION
ONTARIO

PURPOSE AND SCOPE

TO TRY AND LOCATE ADDITIONAL VERMICULITE ZONES IN THE NORTH WEST CORNER OF THE PROPERTY.

GEOLOGICALLY IT HAS BEEN NOTED THAT A MASSIVE
AMPHIBOLITE STRUCTURE WITH INTENSE FOLDING STRIKES NORTH
EAST DIPS EAST IN THE NORTH WEST CORNER OF CLAIM NUMBER
1230702. VERMICULITE OCCURS ALONG THE CONTACT OF THE
AMPHIBOLITE ZONES.



EXPLORATION

AN AREA OVER 300 FEET LONG WAS STRIPPED DOWN TO BED ROCK. OCCASIONALLY OVERBURDEN WAS DEEP. A CONTINUOUS ZONE OF VERMICULITE WAS ENCOUNTERED FOR 300 FEET.

IN ALL THE VERMICULITE FOLLOWED IN CONTACT WITH THE AMPHIBOLITE. THIS OBSERVATION IS USEFUL FOR FUTURE EXPLORATION.

VERMICULITE

THE DEPOSIT HAS EXPERIENCED A LOT OF WEATHER-ING IN THE TOP 10 FEET, HENCE WITH GROUND WATER WASHING HAS CONCENTRATED ITSELF TO AN ESTIMATED GRADE OF 60 % -80% VERMICULITE.

TRENCHES WERE DUG INTO THE ZONE UNTIL IT BECAME SOLID AT A DEPTH OF 10 FEET TO 12 FEET.

SAMPLES WERE TAKEN AT 30 FOOT INTERVALS FROM THE CONSOLIDATED ROCK.

THESE SAMPLES WERE TAKEN TO SUDBURY TO THE ERANA MINES PILOT PLANT FOR THE FOLLOWING WORK:

- SEPARATION OF VERMICULITE DEPOSIT FROM
 GANGUE MATERIALS UTILIZING NEW PROCESS
 TECHNOLOGY
- 2 TO DETERMINE GRADE OF VERMICULITE
- 3 TO PREPARE VERMICULITE FOR EXPOLIATION
- 4 TO HAVE PRODUCT FOR FINAL ANALYSIS AND
 MARKET RESEARCH

FUTURE RECOMMENDATIONS

BASED UPON THE RESULTS OF THE ERANA MINES
PILOT PLANT WORK AND PRODUCT EVALUATION BY ERANA MINES
AND THE INDUSTRY AT LARGE, AS WELL AS THE RECENT INQUIRY
BY A PROSPECTIVE CUSTOMER FOR USE IN FIRE PROOF BOARDS,
WE RECOMMEND THE FOLLOWING:

- A MINE AND PROCESS A 10 TON BULK SAMPLE FOR CUSTOMER EVALUATION
- B ALTHOUGH EXTENSIVE TRENCHING HAS BEEN DONE
 AT LEAST 2,000 FEET OF DIAMOND DRILLING IS
 NECESSARY TO ESTABLISH DEPTH OF OCCURRENCE

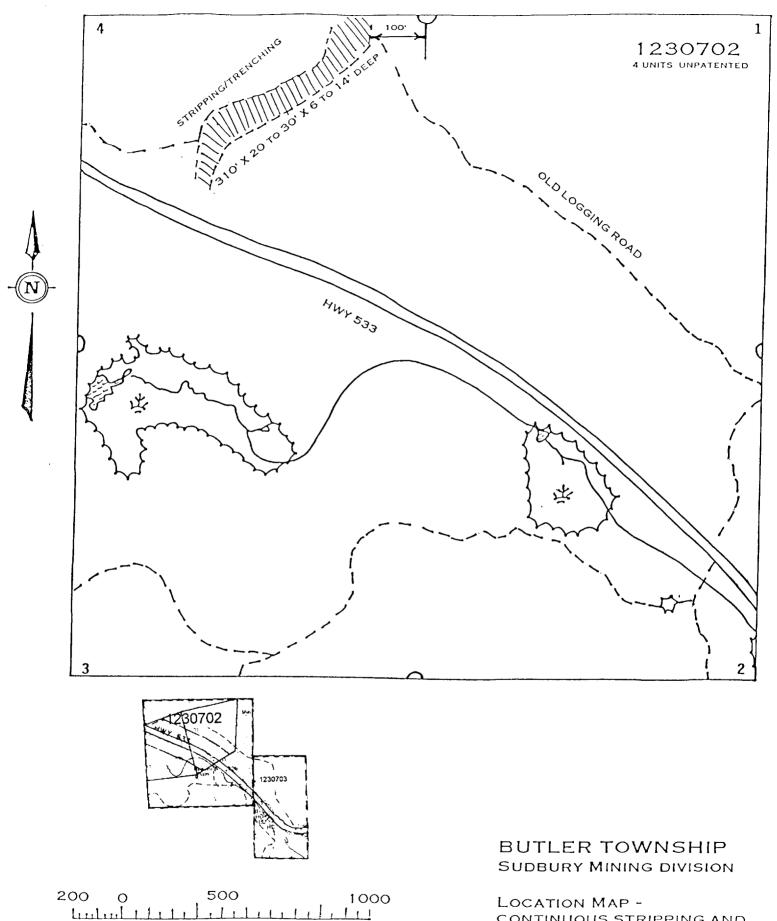
AND EXTENT OF VERMICULIZATION AT DEPTH

- C MAPPING OF ALL OCCURENCES ON THE PROPERTY
- D MAP ALL AMPHIBOLITE EXPOSURES

RESPECTFULLY SUBMITTED

EDWARD J. BLANCHARD Consultant

DECEMBER 1, 1999.



SCALE IN FEET 1:4800

DATE: DEC-01-99

CONTINUOUS STRIPPING AND

OVERBURDEN REMOVAL

EJB





31L11SE2002 2.

19981

RE: Work Report Assessment Results

Submission Number: 2.199881

AMENDMENT

ERANA MINES - PILOT PLANT TEST

In January 2000, 8 bulk samples of 100 lbs. each were processed with the objectivity of both determining the grade of vermiculite and separation from gange rock. The samples were a composite of 30 foot intervals, crushed in a 12 blade hammer mill and screened to a -8 mesh for processing.

The first method used was a patented air separation unit. This unit separates dry material by specific gravity. The second method used was a wet Diester Table.

All material from the wet table was dried. All the vermiculite concentrate was exfoliated.

CONCLUSION

The wet Diester Table provided a vermiculite concentrate that when exfoliated, yielded a 100% product.

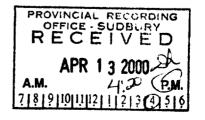
The air separation unit provided a vermiculite concentrate that when exfoliated, yielded 85% vermiculite and still had 15% amphibolite in the concentrate. All determinations were by weighted average.

The nature of the rock was originally called amphibolite. However after ICP analysis, we are not sure - possibly a large highly folded carbonatite.

The vermiculite occures as veins and veinlets ranging from 4 feet wide to 12 feet wide. The vermiculite is always on the foot wall side of the folded, previously called amphibolite.

A ICP analysis of the so-called amphibolite is attached.

Edward J. Blanchard April 11, 2000.



ERANA MINES LIMITED 106 Fielding Road Lively, Ontario P3Y 1L5

DIESTER TABLE

TEST	CONCENTRATE RECOVERED	EXFOLIATED	RECOVERED GRADE VERMICULITE
#1	75 lbs.	100%	75%
#2	85 lbs.	100%	85%
#3	74 lbs.	100%	74%
#4	95 lbs.	100%	95%

AIR SEPARATOR

TEST	CONCENTRATE RECOVERED	EXFOLIATED	RECOVERED GRADE VERMICULTE
#1	85 lbs.	80%	68%
#2	90 lbs.	80%	72%
#3	70 lbs.	80%	56%
# 4	95 lbs.	80%	76%

5

ERANA MINES LTD

Attention: E. Blanchard

Project

Sample: Fine Material

Swastika Laboratories Ltd.

1 Cameron Ave., Swastika, Ontario, POK 1T0 Tel: (705) 642-3244 Fax: (705) 642-3300

: 0W0293 RL

Date

Report No

: Feb-09-00

ICP Whole Rock Assay

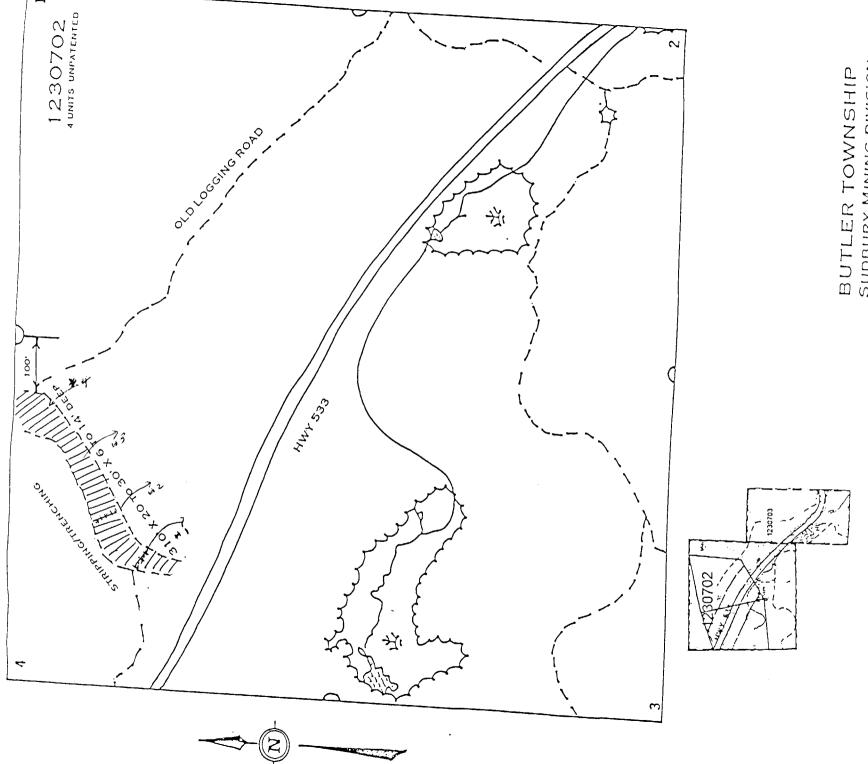
Lithium Meraborate Fusion

Sample Number 10.18 12.05 15.52 1.24 0.37 0.63 0.27

Black moderial 3.

Sample is fused with Lithium Metaborate and dissolved in dilute HNO3.

Page 1 of 1



SUBBURY MINING DIVISION

Location Map -Continuous stripping and Overburden removal

DATE: DEC-01-99

1:4800

SCALE IN FEET

500

Linkel

200



Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) N9970.00328
Assessment Files Research Imaging



31L11SE2002 2.19981 BUTLER		review the asses	ssment work and corr	Mining Act. Under section 8 of the espond with the mining land holder. velopment and Mines, 6th Floor,	
Instructions: - For work performed of	900 on Crown Lands bef	ore recording :	a claim use form	0240	
- Please type or print in		ord recording t	~	0240.	
1. Recorded holder(s) (Attach a lis	t if necessary)				
Wilfred C. Symonds			Client Number	199539	
Address 40 B Essa Road			Telephone Number	/705\720 4764	
			Fax Number	(705)7 <u>39-4764</u> (416)441-9443	
Barrie, ON Name	L4N 3	(5	Client Number	(410)441-3443	
Address			Telephone Number		
			Fax Number		
2. Type of work performed: Check	(→) and report or	n only,ONE of ti	ne following grou	ps for this declaration.	
Geotechnical: prospecting, survey assays and work under section 1	ys,	Physical: drilling		Debekilleri	
Work Type				Office Use	
STRIPPING/TRENCHING			Commodity		
			Total \$ Value of Work Claimed	5478	
Dates Work Performed From 24 11 99 Day Month Year	To 1	12 99 Month Year	NTS Reference		
Global Positioning System Data (if available)	Township/Area Butler		Mining Division	Sudbury	
	M or G-Plan Number G-1722		Resident Geolog	sist Sudbury.	
- complete and - provide a map	permit from the Min notice to surface ri attach a Statement showing contiguou pies of your technic	ghts holders be of Costs, form (s mining lands (fore starting worl 0212:	quired;	
3. Person or companies who prepare	ared the technical	report (Attach	a list if nacessa	n/\	
Name		roport (rittaon	Telephone Number		
Erana Mines Limited Address			(705)682-0649 Fax Number		
106 Fielding Road, Lively, 0	N P3Y 1L5		(705)682-2447 Telephone Number		
Address			Fax Number		
Name					
		RECEI	VED ^{ne Number}		
Address		150 17	Fax Number		
		GEOSCIENCE ASS	SESSMENT		
4. Certification by Recorded Holde	er or Agent	OFFICE			
I, Joanne A. Funk (Print Name) forth in this Declaration of Assessment or after its completion and, to the bes	nt Work having cau	sed the work to	be performed or	al knowledge of the facts se witnessed the same during	
Signature of Recorded Holder or Agent	7. 6, -1	lgent		Date Dec. 7/99	
Agent's Address 106 Fielding Road, Lively, 0	•	Telephone I	Number 32-0649	Fax Number (705)682-2447	

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work work was done on other eligible

Number of Claim Value of work performed on this performed on this applied to this assigned to claims that are contiguous (adjoining) to the distributed to be distributed.

column th	laim Number. Or if done on other eligible nd, show in this ne location number on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of wor to be distributed at a future date.
eg	TB 7827	16 ha	\$26, 825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$ 8, 892	\$ 4,000	0	\$4,892
1	1230702	4	5,478.	3,200.	1,600.	678.
2	1230703	2	0	1,600.	0	0
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10	Joanne A Funk	Column Totals	5,478.	4,800.	1,600.	678.
subsecti the clain Signature of	ructions for cutting the credits claimed to prioritize the de 1. Credits a 2. Credits a 3. Credits a	I Name) essment Work Re as done. ent Authorized in Writin mu (1) g back credits the in this declaration letion of credits: re to be cut back re to be cut back re to be cut back	, do herely gulation 6/96 for a significant are not approximate are not approximate are not back firm the Bank firm starting with the significant are qually over all contacts.	red. k. Please check (st, followed by op claims listed last,	above work creditations or for the Decoration 2 or 3 or 4 as working backwards	s are eligible under or application to construct the construction of the construction
subsecti he clair Signature of Some of You wish	ructions for cutting the credits claimed to prioritize the de 1. Credits a 2. Credits a 3. Credits a 4. Credits a you have not indicatellowed by option nur ce Use Only	I Name) essment Work Re as done. ent Authorized in Writin mu (1) g back credits the in this declaration letion of credits: re to be cut back	, do here egulation 6/96 for a regulation 6/	ved. k. Please check (st, followed by operations listed last, laims listed in this the attached appe	Date Dec	s are eligible under or application to constant to con

Approved for Recording by Mining Recorder (Signature)



Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)
W9970.00328

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

	Units of Work		
Work Type	Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
MECHANICAL STRIPPING/TRENCHING	3 days	1,387.43	4,162.30
Associated Costs (e.g. suppli	es, mobilization and demobilization).		
MOBILIZATION AND DEMOBI	LIZATION	374.50	1,123.50
Trar	nsportation Costs	64.20	192.60
Foo	d and Lodging Costs		N/A
	Total Value o	f Assessment Work	5,478.40
Calculations of Filing Discou	nts:		
If work is filed after two yea	of performance is claimed at 100% of the irs and up to five years after performance, If this situation applies to your claims, us	it can only be claimed.	ssessment Work. at 50% of the Total
TOTAL VALUE OF ASSESS	SMENT WORK × 0.50 =	Total \$ valu	e of worked claimed
request for verification and/or of	ot eligible for credit. quired to verify expenditures claimed in the correction/clarification. If verification and/out of the assessment work submitted.	is statement of costs wing correction/clarification	thin 45 days of a is not made, the
- Work older than 5 years is no - A recorded holder may be re- request for verification and/or of Minister may reject all or part of	quired to verify expenditures claimed in th correction/clarification. If verification and/o	r correction/clarification	EIVED
 Work older than 5 years is not A recorded holder may be request for verification and/or of 	quired to verify expenditures claimed in the correction/clarification. If verification and/o of the assessment work submitted. do hereby certify, that the	r correction/clarification	EIVED
- Work older than 5 years is not - A recorded holder may be recrequest for verification and/or of Minister may reject all or part of Certification verifying costs: I, Joanne A. Funk (please print full name)	quired to verify expenditures claimed in the correction/clarification. If verification and/o of the assessment work submitted. do hereby certify, that the	GEOSCIEM amounts shown are as	13 4393 CE ASSESSMENT OCE ASSESSMENT OCE ASSESSMENT OCE ASSESSMENT
- Work older than 5 years is not - A recorded holder may be recrequest for verification and/or of Minister may reject all or part of Certification verifying costs: I, Joanne A. Funk (please print full name)	quired to verify expenditures claimed in the correction/clarification. If verification and/or of the assessment work submitted.	GEOSCIEM amounts shown are as	IS 1393 ICE ASSESSMENT OF CONTROL OF LAM Authorize

ERANA MINES LIMITED 106 Fielding Road Lively, Ontaio P3Y 1L5

TEL: (705) 682-0649...FAX: (705) 682-2447

TO: Mr. W.C. Symonds

40 B Essa Road

Barrier, ON

L4N 3K5

INVOICE NO.: WS-01/99

DATE : Dec-01-99

TERMS

: Due upon receipt.

"Butler Township" - stripping/trenching RE:

Nov-24-99 MOBILIZATION: (see attached invoice) \$ 525.00*

Albert Transport - Nov. 24/99

Inv. No. 201 - \$36.75 GST

FIELD CONSULTANT

E.J. Blanchard 1 day @ \$250./day

250.00**

LABOUR

Nov-24, 25 & 26-99

A. Jerome

36 hrs. @ \$20./hr. 720.00

P. Hauser (equip. operator)

36 hrs. @ \$20./hr. 720.00 1,440.00**

EQUIPMENT RENTAL (unoperated)

690E excavator 1 wk. @ \$2200./wk.

2,200.00**

SERVICE VEHICLE (unoperated)

1-97 GMC P/U @ \$60./day X 3 days 180.00**

DEMOBILIZATION: (see attached invoice) Albert Transport - Nov. 27/99 Nov-27-99

Inv. No. 115 - \$36.75 GST

525.00* \$5,120.00

7% GST #101671618 on * 73.50

on ** 284.90

358.40 \$5,478.40

=======



Invoice # Nº

201

Truck# 00 02

C.O.D.

Load WT (EST)

Prepaid

Collect

` 20 Cedar Laine Road Lively, Ontario P3Y 1H4 Tel: 705-682-4285 • Fax: 705-682-4744

	-4285 • Fax: 705-682-4744	N.
Customer Nan	ne Erana Minu	P.O. #
	ss 106 Fielding Rd	1 162 4110
, idalo.	Lively Ont. Pompeo	1 / 1 La
Product District	ip Point Kukagani LKRO	Customer Signature A Jike Hauser
·		Delivery Point Hay 533 & Hear 63
Shipping Detai	ils Deliver Excavator	46 Km North of North
	Day on Huy 53	5_5
- 1 m		
Price,	525· ^{ro}	Driver Signature
Surcharge	9	G Chair
Sub Total	525.50	7
G.S.T.	36.75 V	TERMS NET 30 DAYS - PLEASE PAY BY INVOICE.
Total	# 561.75	NO STATEMENT WILL BE ISSUED. GST Registration # R101259778
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	LBERT Date No	<u>∪ 27</u> Invoice # Nº 1°15
Z TRA	NSPORT Truck #	20-05 C.O.D Prepaid Collect
20.0	1999 Driver #	امين د Load WT (EST)
Lively,	dar Laine Road Ontario P3Y 1H4	,
Tel: 705-682-4	285 • Fax: 705-682-4744	
Customer Name	EFANH MINE	P.O. #
Address	s 106 FIELDING RO	Contact Name En Brync HIPRIS
	LIVELY CUT POINGE	
Product Pick-up	Point Huy 533 & Huy 63	Delivery Point SHOP ON TIELDING RO.
Shipping Details	PICK UP JO Fram	Aroc 46 Km Northor
	NORTH BAY & DELIV.	En TO STOP ON Aleson Ro
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Price	525	D(iver Şignature
Surcharge	- -	
Sub Total	59500	
G.S.T.	36	TERMS NET 30 DAYS - PLEASE PAY BY INVOICE.
	5/1.75	NO STATEMENT WILL BE ISSUED. GST Registration # R101259778
Total	J (3/	Janes

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

April 20, 2000

WILFRED C SYMONDS 40 B, ESSA RD. BARRIE, ONTARIO L4N-3K5



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9845 Fax: (877) 670-1555

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam: Submission Number: 2.19981

Status

Subject: Transaction Number(s): W9970.00328 Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact BRUCE GATES by e-mail at bruce.gates@ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

ORIGINAL SIGNED BY

Blair Kite

Supervisor, Geoscience Assessment Office

Mining Lands Section

Work Report Assessment Results

Submission Number:

2.19981

Date Correspondence Sent: April 20, 2000

Assessor: BRUCE GATES

Transaction Number

First Claim

Township(s) / Area(s)

Status

Approval Date

W9970.00328

Number 1230702

BUTLER

Approval After Notice

April 17, 2000

Section:

10 Physical PSTRIP 18 Other INDUS

The revisions outlined in the Notice dated March 14, 2000 have for the most part been corrected. Accordingly, assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission.

Correspondence to:

Resident Geologist

Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Joanne Funk

LIVELY, ONTARIO

Assessment Files Library

Sudbury, ON

WILFRED C SYMONDS

BARRIE, ONTARIO

