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GEOLOGICAL REPORT

ON THE

WIN PROPERTY

for

RUSKIN DEVELOPMENT LTD. (N.P.L.)

NICOLA M.D. 50° 120' SW

Vancouver, B.C.

February 28, 1974

L. Sookochoff, P.Eng.,

Consulting Geologist

TABLE OF CONTENTS

SUMMARY.....	i
CONCLUSIONS AND RECOMMENDATIONS.....	ii
INTRODUCTION.....	1
PROPERTY.....	1
LOCATION AND ACCESS.....	2
TRANSPORTATION AND SUPPLIES.....	2
TOPOGRAPHY AND TIMBER.....	2
WATER AND POWER.....	3
HISTORY.....	3
GEOLOGY.....	4
MINERALIZATION.....	5
RECOMMENDED EXPLORATION AND DEVELOPMENT PROGRAMME.....	5
COST OF RECOMMENDED EXPLORATION AND DEVELOPMENT PROGRAMME.....	7
ENGINEER'S CERTIFICATE.....	8
REFERENCES.....	9

MAPS

Scale

LOCATION MAP

1" = 36 miles

CLAIM MAP

1" = 1500 feet

SUMMARY

The Win Property of Ruskin Developments Ltd. (N.P.L.) is comprised of twenty mineral claims located six miles southeast of Merritt, British Columbia.

Access is via a two and one-half mile logging road from the Princeton-Merritt Highway.

The average elevation on the property is 3,800 feet.

Sufficient water is available for all phases of the exploration and development programme.

The claim group is within the Nicola Group of rocks which to the south are host to widespread mineralization - the source of which is believed to be the Coast Intrusives.

Granitic and related stocks of the Coast Intrusives are found to the east of the claim block.

A pit on the property exposes fractured and faulted silicified limestone with considerable epidote alteration and malachite and azurite staining.

A tunnel driven to intersect the mineralization below the shaft was reported to be short of intersecting the mineralized zone.

Samples from the dump assayed up to 2.20% copper and 2.30 ounces silver per ton.

Chip samples within the pit disclosed values of up to 1.30% copper, 1.50 ounces silver per ton and 4.30% zinc.

#### CONCLUSIONS AND RECOMMENDATIONS

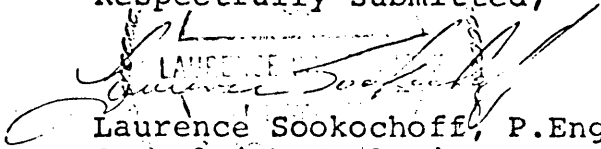
Structures revealed by outcrops and pits on the property indicate that the rocks within the claim group have been subjected to varying degrees of shearing and faulting. Epidote and silica alteration along with substantial copper mineralization disclosed within the pit suggests that this area has the potential for containing significant zones of mineralization.

Thus a detailed exploration programme on the claim group is warranted.

It is recommended that an exploration programme consisting of a geochemical survey, along with an I.P. survey, be carried out over the property. Geological mapping and a magnetometer survey should be carried out to aid in the interpretation of the geophysical and geochemical surveys.

It is also recommended that Ruskin Development Ltd (N.P.L.) allocate the sum of \$20,000.00 to initiate and execute the recommended exploration and development programme.

Respectfully submitted,



Laurence Sookochoff, P.Eng.,  
Consulting Geologist

February 28, 1974

Vancouver, B.C.

## INTRODUCTION

The following report is based on information derived from pertinent government publications and from previous published reports on the general area of the Zone group of mineral claims.

The writer has not examined the property, however, is familiar with the geology of the area from previous work done in the immediate vicinity.

## PROPERTY

The property is comprised of twenty contiguously located mineral claims. They are as follows:

<u>Claim</u>	<u>Record No.</u>	<u>Expiry Date</u>
Zone 1-10 incl.	58360-58369 incl	March 27, 1974
Win 1-10 incl.	59795-59804 incl	March 5, 1975

LOCATION AND ACCESS (50° 120° SW)

The property is located within the Nicola Mining Division six miles southeast of Merritt, British Columbia to the east of Iron Mountain.

Access is via a two and one half mile logging road branching off to the west, nine miles south of Merritt, along the No. 5 Merritt-Princeton highway.

TRANSPORTATION AND SUPPLIES

Merritt is some 220 miles from Vancouver and 65 miles from Kamloops which has daily jet service from Vancouver.

CPR rail service is available at Merritt.

Most supplies required for initial exploration are available at Merritt.

TOPOGRAPHY AND TIMBER

The claim group generally covers rounded slopes with low relief. The average elevation on the property is 3,800 feet above sea level.

The ground is well covered with jackpine on the lower elevations and fir and pine on the higher slopes.

Few outcrops are found on the property.

#### WATER AND POWER

Sufficient water is available for all phases of the exploration and development programme.

A power line is located within one mile south of the property.

#### HISTORY

Claims were first staked in 1967 to cover the showings exposed in a pit and adjacent areas. There are no prior records of when mineralization was first discovered in this area or as to when the pit and tunnel were excavated.

Several grab and chip samples were taken in the following years with no additional exploration on record.

The Zone claims were staked in 1973 to cover the mineralization, old workings and adjacent ground.



## GEOLOGY

Regionally, the area is underlain by the Nicola Group of Triassic age and comprised of greenstone, andesites, basalts breccias, limestone and related rocks.

Granitic and related stocks of the Jurassic Coast Intrusives are found to the east of the claim block.

The widespread mineralization within the Nicola rocks of the area is apparently derived from these intrusives.

On the claim group a six foot shaft sunk in a highly siliceous limestone exhibits considerable faulting and fracturing, epidote alteration with malachite and azurite staining.

90 feet north of the pit a 120 foot tunnel was driven into the hillside to intersect the zone below the pit. No mineralization was revealed in the crosscut and it was reported to be short of the zone.

Andesite outcrops west of the pit show considerable epidote alteration with localized sparse chalcopyrite mineralization.

Several exposures of limestone and tuff occur along the access road. Limey angular fragments found within the bank contain occasional stains of malachite and azurite.

Outcrops with mineralization indicates a 600 foot zone of interest.

#### MINERALIZATION

Mineralization occurs as chalcopyrite, pyrite, hematite, sphalerite and minor bornite which appears to be controlled by a shear zone as indicated in a pit within a limestone.

Several samples taken from the dump and the pit disclosed values ranging from 0.52% to 2.20% copper and from 0.23 to 2.30 ounces per ton silver. Gold values were less than 0.05 ounces per ton.

Chip samples taken in 1963 by Sherwin F. Kelly, P.Eng., of the south face of the pit returned between 0.75% and 1.30% copper, trace to 1.50 ounces per ton silver and from 0.23 to 4.30% zinc.

#### RECOMMENDED EXPLORATION AND DEVELOPMENT PROGRAMME

The exploration programme should be designed to determine and delineate the extent of the known surface mineralization and to locate other zones of possible sulphide mineralization.

A geochemical programme to cover the claim group should be carried out.

Concurrently, the claim group should be covered by an I.P. survey to locate areas of potential sulphide mineralization and to provide any correlative significance to the soil sampling results.

The property should also be mapped to provide information as to the possible control of the mineralization as well as aiding in the interpretation of the geophysical survey.

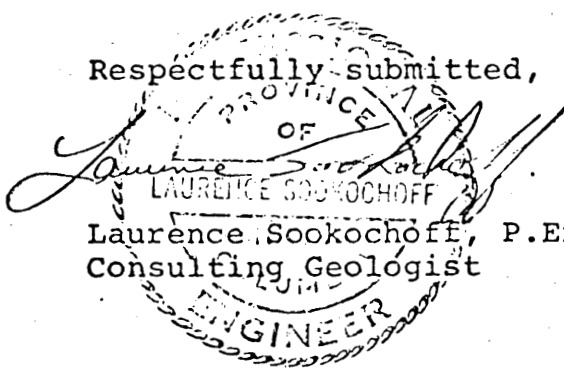
A magnetometer survey can provide information on the lithological boundaries and aid in the interpretation of the property geology.

COST OF RECOMMENDED EXPLORATION AND DEVELOPMENT PROGRAMME

Geochemical Survey, 1000 samples at \$4/sample	\$ 4,000.00
Magnetometer Survey, 20 line miles at \$110 per line mile	2,200.00
I.P. Survey, 10 line miles at \$500/line mile	5,000.00
Geological Mapping	2,000.00
Field costs	1,000.00
Engineering and Supervision	3,000.00
Contingencies	2,800.00
	<hr/>
TOTAL COST	<u>\$20,000.00</u>

It is estimated that the programme would take one month to complete.

Respectfully submitted,



Laurence Sookchoff, P.Eng.,  
Consulting Geologist

February 28, 1974  
Vancouver, B.C.

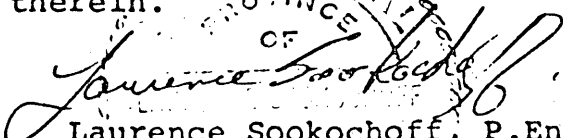
## ENGINEER'S CERTIFICATE

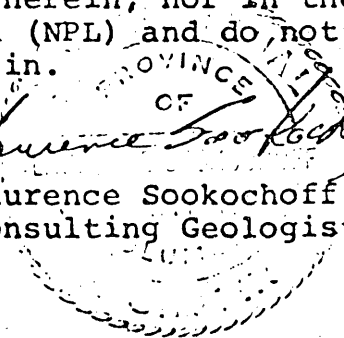
I, Laurence Sookochoff, of the City of Vancouver, in the Province of British Columbia, do hereby certify:

That I am a Consulting Geologist and an associate with T.R. Tough & Associates Ltd., with offices at 519-602 West Hastings Street, in Vancouver, B.C.

I further certify that:

1. I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in Geology.
2. I have been practising my profession for the past eight years.
3. I am registered with the Association of Professional Engineers of British Columbia.
4. This report is based on information obtained from government publications and previous reports on the area covered by the Zone claims.
5. I have not carried out a property examination of the Zone Group of Ruskin Developments Ltd (NPL) but have studied available literature on the area and have a personal knowledge of the general area.
6. I have no direct or indirect interest whatsoever in the property described herein, nor in the securities of Ruskin Developments Ltd (NPL) and do not expect to receive any interest therein.

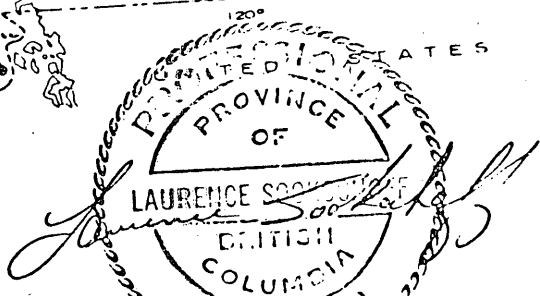
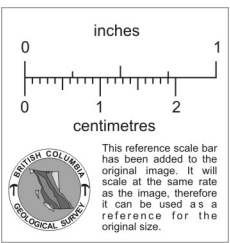
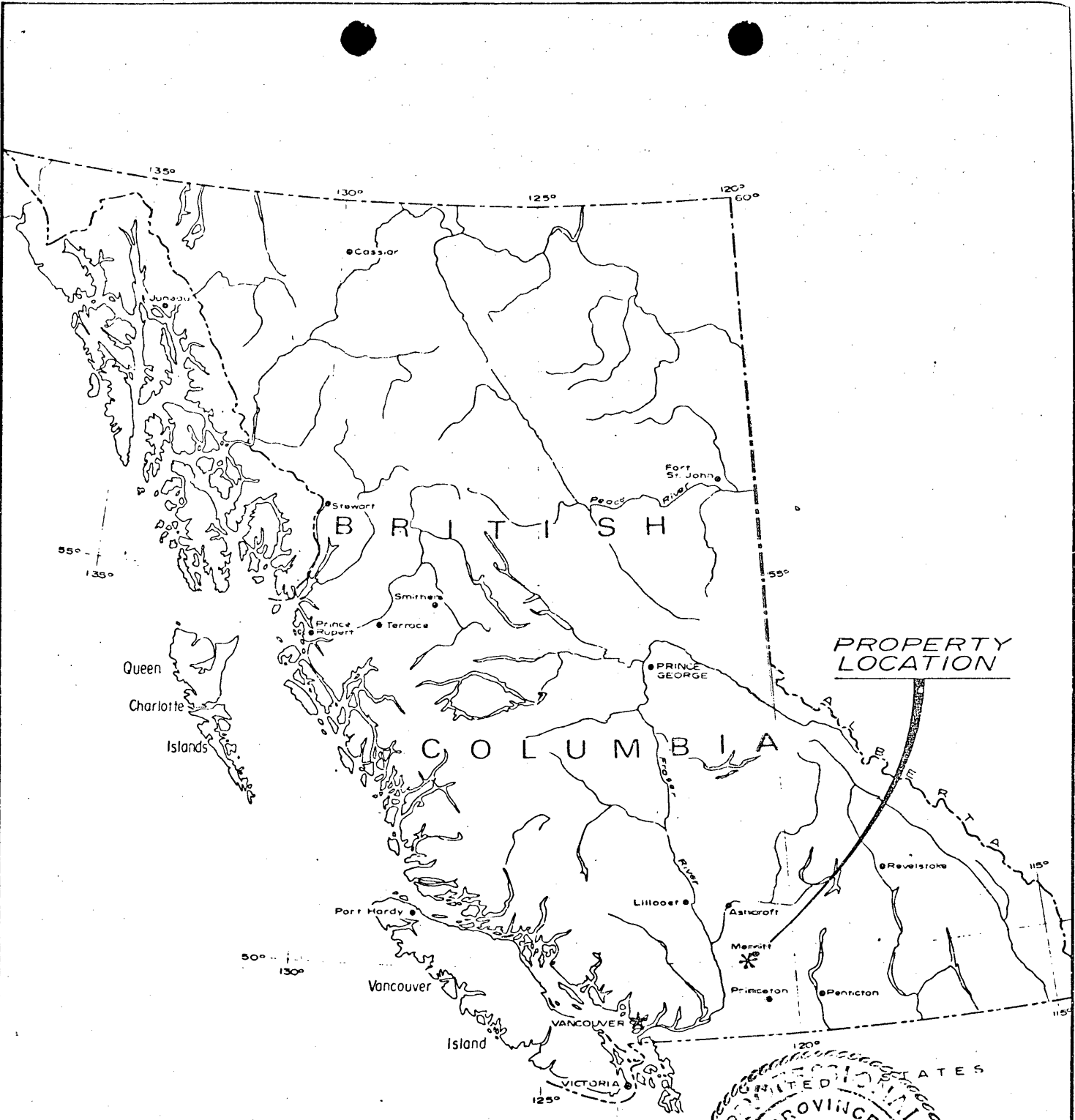
  
Laurence Sookochoff, P.Eng.,  
Consulting Geologist



February 28, 1974  
Vancouver, B.C.

## REFERENCES

- Cockfield, W.E., Geology and Mineral Deposits of Nicola Map Area, British Columbia. Memoir 249, Geological Survey of Canada, 1961.
- Kelly, S.F., Report on the Ell Mineral Claims near Merritt, B.C. July 23, 1968.



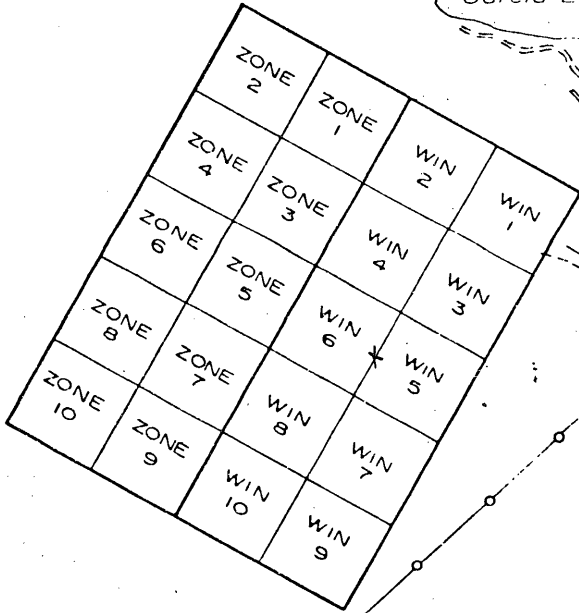
T.R. TOUGH & ASSOCIATES LTD.  
**RUSKIN DEVELOPMENTS LTD (N.P.L.)**  
 WIN PROPERTY  
**LOCATION MAP**

NICOLA M.D., BC  
 SCALE  
 1" = 136 Miles



Merrill 5 Miles

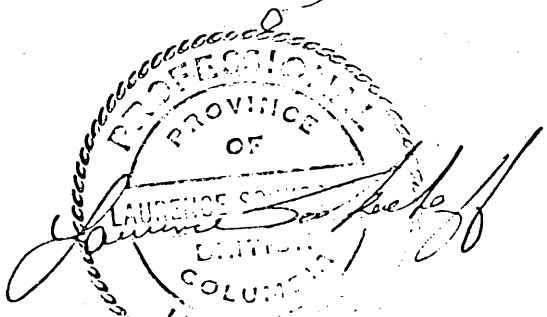
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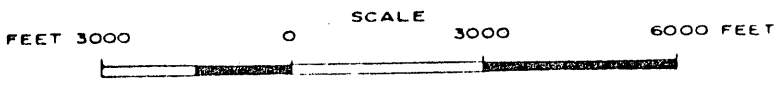
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T.R. TOUFFLES ASSOCIATES LTD  
 RUSKIN DEVELOPMENTS LTD (N.P.L.)  
 WIN PROPERTY  
 CLAIM MAP

NICOLA MD BC.





T. R. TOUGH & ASSOCIATES LTD.  
Consulting Geologists  
519 - 602 WEST HASTINGS STREET  
VANCOUVER 2, B. C.

687

March 25, 1974

Board of Directors  
Ruskin Development Ltd. (NPL)  
202 - 900 West Pender Street  
Vancouver 1, B.C.

Dear Sirs:

Re: Win Property - Nicola M.D.

Recent exploration work carried out on your Win property located south of Merritt, B.C. has provided very encouraging results.

The work was carried out from February 26 to March 16 and was comprised of a localized magnetometer survey, trenching and sampling.

Grab samples from four of seven trenches excavated were taken and returned the following assays:

Sample #	Location	Description	oz Au/ton	Assay oz Ag/ton	% Cu
915J	Trench #1 (adjacent to shaft)	Tetrahedrite, malachite, azurite on fr. planes of silicified lime- stone, diss. chalcopyrite (cpy)	.005	.58	1.04
916J	Trench #2 (≈ 300' north of shaft)	Pyrite and light cpy. diss. in a siliceous tuffaceous por- phyritic green- stone.	Tr.	.10	.03
917J	Trench #3 (≈ 250' southwest of shaft)	Same as Trench #1	.01	3.9	6.85
918J	Trench #4 (≈ 300' southwest at Trench #3)	Same as Trench #2	.005	.04	.05

A magnetometer survey covering an area of 4000 by 5800 feet centered on the shaft outlined four anomalous zones.

Two lenticular north-south magnetic lows, one centered over the shaft, the second 2000 feet south of the shaft, may reflect the shear zone within which the mineralization at the shaft occurs.

Two magnetic highs, to the east and west of the second magnetic low, may reflect lithological boundaries and possibly granodioritic intrusives.

The exploration programme should be continued following the recommendations as set out in the writer's report on the property dated February 28, 1974.

Respectfully submitted,

LAURENCE SOOKOCHOFF  
CONSULTING GEOLOGIST

Laurence Sookochoff, P.Eng.,  
Consulting Geologist