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TABLE OF CONTENTS

1	INTRODUCTION
2	GEOLOGIC L REPORT
3	ON THE ETHEL PROPERTY
4	REVELSTOKE M.D.
5	REGIONAL GEOLOGY
6	GEOLOGY ON THE PROPERTY
7	MINERALIZATION
8	HISTORY OF DEVELOPMENT WORK
9	By
10	K. G. SANDERS, P.ENG.
11	Vancouver, B.C.
12	CONCLUSIONS
13	RECOMMENDATIONS
14	CERTIFICATE

[see page]	APPENDIX I - ASSAY CERTIFICATES
[see page]	APPENDIX II - COMPOSITE ASSAY PLAN

July 7, 1975

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## TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
SUMMARY	1
LOCATION AND ACCESSIBILITY	2
CLAIMS	3
REGIONAL GEOLOGY	3
GEOLOGY ON THE PROPERTY	4
MINERALIZATION	4
HISTORY OF DEVELOPMENT WORK	5
ASSAYS	6
ORE RESERVES	8
CONCLUSIONS	9
RECOMMENDATIONS	10
CERTIFICATE	12
APPENDIX I - ASSAY CERTIFICATES	[at back]
APPENDIX II - COMPOSITE ASSAY PLAN	[in pocket]

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## INTRODUCTION

On June 11, 1975 I examined the Ethel property in Lardeau district of British Columbia. Prior to this examination I had supervised field work on this property in the years 1964, 1965, and 1966 while in the employ of Sunshine Lardeau Mines Ltd., and Rexony Mining Company Ltd. Work in those earlier years consisted of underground and surface geological mapping and vein sampling plus diamond drilling. This report is based on the results of my own work and the earlier history of the property as outlined in the reports of the Minister of Mines for British Columbia.

## SUMMARY

The Ethel property is located in the Lardeau district in the Revelstoke Mining Division and the showings lie at an elevation of 6,200 feet three miles southwest of the town of Trout Lake, B.C. A high grade silver vein system along or near the contact of Precambrian dolomite and argillaceous schists has been traced across the property for 500 feet and a vertical range of more than 100 feet. Two veins have been developed which are 6 inches to 3 feet in width and explored by 7 drift and 3 cross cut adits driven in the period 1898 to 1918. It is estimated that 200 tons were mined in this period and sorted down to 76 tons of shipping ore which returned the owners 9,251 ounces of silver and 12,664 pounds of lead.

The vein mineralization is freibergite and galena and assays of as high as 1,000 ounces of silver per ton have been obtained. A systematic sampling program by the writer in 1965 over most of the underground workings has indicated a possible ore reserve of 1,800 tons averaging 35 ounces silver per ton across a width of 2.4 feet. The gross value

121.72 K.B.S.

of this ore, which is readily accessible by open cut and stripping surface mining, is \$283,500 at present silver prices.

Except for three diamond drill holes in 1966 below the main showings area and which were disappointing, there has been no other lateral or deep work on the vein system since 1918 and as such the property is considered to be of further interest at this time.

The writer recommends an expenditure of \$15,000 to surface mine as much ore as possible this summer season for trucking to and treatment at the Trail smelter. It is estimated that 300 tons can be produced for this expenditure. Should the smelter assays show an average of 30 ounces of silver or more per ton, a viable silver mining operation will have been indicated this season which would warrant additional and more extensive exploration and development work, either immediately or in the 1976 season.

#### LOCATION AND ACCESSIBILITY

The property presently consists of two mineral claims called Henry #1 and #3, which are located across the ridge between Humphries Creek and Halfway Creek and at elevations up to 6,200 feet A.S.L. The claims are three miles southwest of the hamlet of Trout Lake, B.C. The hamlet of Trout Lake is 40 miles south of Revelstoke and about 440 miles east by road from Vancouver, B.C.

An all-weather logging road leads to within half a mile of the claims and a four-wheel drive road continues from the logging road to the claims.

X.G.S.

Except for heavy snow conditions the property is easily workable and within 180 miles of the smelter at Trail, B.C.

### CLAIMS

Two mineral claims currently comprise the property. They are called Henry #1 and #2 with record numbers 10152M, and 10866M. The anniversary dates for the claims are September 10 and 14 and they are currently in good standing.

The claims are registered in the name of Alfred Chilton of Trout Lake, B. C., but it is my understanding that they are currently under lease with option to purchase by William Thompson of Vancouver, B. C.

### REGIONAL GEOLOGY

The Lardeau district is a distinct metallographic province lying at the north end of the Kootenay Arc. The district has long been known for its many silver, lead, and zinc showings within the Lardeau syncline of Precambrian age. Three prominent mineral belts related to the core and both limbs of the syncline have been recognized since the district first came to prominence in the early 1900's. The Ethel showings are associated with the west limb of the regional structure.

The Lardeau rocks are a Precambrian series of volcanic flows and breccias interbedded with argillite, limestone and related micaceous, chloritic, and graphitic schists. Mineralization in the district is represented by quartz fissure veins carrying gold or silver, lead, and zinc and by

K. B. S.

replacement deposits of lead and zinc associated with limestone horizons. The two most famous producing mines of the district were the Silver Cup at Ferguson, B.C., and the Sunshine Lardeau at Camborne, B.C. Each produced in the neighborhood of \$5,000,000 in silver, lead, and zinc in the early 1900's from the Silver Cup and in the 1950's from the Sunshine Lardeau.

#### GEOLOGY ON THE PROPERTY

The Ethel showings are bedded or close-to-bedded quartz fissure veins in limey and argillaceous schists at or near a contact with a local marker horizon of dolomite known as the Lucky Boy dolomite.

The schists and dolomite at the showings strike N 45 W and dip 60° to the northeast as do the veins which are mostly conformable. The schist series includes graphitic and sericitic members and some gritty, and pyritic members are also intercalated. The Lucky Boy dolomite is a distinct member traceable through three other adjacent mineral properties. Its general color is grey to almost black.

#### MINERALIZATION

Two distinct parallel veins have been recognized on the property and are called the Footwall Vein and the Main Vein. It is quite probable that there is an additional vein in the hangingwall of the Main Vein but insufficient exposures have not yet confirmed this.

The veins vary in width from a few inches up to 3 feet but one underground exposure shows as much as 6 feet

K.B.S.

of good mineralized quartz vein. The Main Vein has been drifted on and is traceable by outcrop for 500 feet of length thus indicating probable persistence to depth as well. The main showing area outcrops up and along a steep ridge for a slope distance of 270 feet.

The veins are sugary and crystalline quartz often mixed with the wall rocks to give a cindery effect. The walls are not often distinct even though the veins have good lateral continuity and persistence. Mineralization consists of galena, freibergite, and minor sphalerite. High silver values are directly associated with the freibergite and not the galena. The silver ore could be called a 'dry-ore' similar to the rich 'dry-ores' of the Slocan district.

#### HISTORY OF DEVELOPMENT WORK

The property was first staked in 1898 and was worked sporadically until 1918. During this period seven drifts and three cross cuts were driven on and towards the vein system. The old workings aggregate about 1,140 feet. The seven drift entries occur over a vertical range of only 100 feet and thus often occur only 20 feet below each other. From the government records and an inspection of the adits as they now exist it is concluded that about 200 tons have been mined in the past and sorted down to 76 tons which was shipped for smelter extraction.

There is no evidence that any additional work was done from 1918 until 1964 when the property was acquired by a private company called Rexony Mining Company Ltd. In the period 1964 to 1966 five miles of access road was built, the old portals were opened for examination, the underground workings were surveyed and sampled and three diamond drill

K. B. S.

holes totalling 812 feet were completed.

The property has been essentially idle since 1966. At the present time Newmont Mining Corporation is exploring a potentially large tonnage molybdenum prospect which adjoins the Ethel property on the north. This was formerly extensively explored and drilled by Scurry Rainbow.

### ASSAYS

From the old records the following figures are noted:

- 1898 - Small shipment - assayed \$70.00 per ton in Ag
- 1902 - 480 sacks - assayed 215 oz silver per ton
- 1903 - 20 tons - assayed 200 oz silver per ton
- 1909 - 5 tons - assayed 307 oz Ag, 28.2% Pb
- 1,150 pounds - assayed 560 oz Ag, 38.6% Pb
- 1,800 pounds - assayed 171 oz Ag, 17.6% Pb
- $\frac{1}{2}$  ton - assayed 0.5 oz Au, 1,110 oz Ag, 39.3% Pb
- 1914 - Siliceous ore rejected in sorting assays  
40 oz Ag, 4% Pb
- 1917 - 26 tons - assayed 140 oz Ag, 8% Pb

Grand total of all shipments recorded was 76 tons which contained 9,251 ounces of silver and 12,664 pounds of lead.

In 1964, I personally sampled the surface outcrops of the main showings area plus some dump material and one underground sample with the following results:

K. G. S.



<u>Width</u>	<u>Oz Au</u>	<u>Oz Ag</u>	<u>% Pb</u>	<u>Location</u>
24"	0.01	61.0	11.34	Vein outcrop
18"	0.01	127.2	7.44	Vein outcrop
20"	0.01	135.6	4.16	Vein outcrop
Grab	Tr.	19.0	0.60	Sugar quartz on dump
27"	Tr.	33.0	3.95	Vein outcrop
20"	Tr.	15.4	1.01	Vein outcrop
18"	Tr.	7.5	0.23	Vein outcrop
10"	Tr.	11.3	1.01	Vein outcrop
12"	Tr.	44.5	5.82	Underground - top cross cut

Also in 1964, the surface showings were sampled by an independent geologist, Bill Nellems in the employ of Sunshine Lardeau Mines Ltd., with the following results, all across a vein width of 12 inches.

<u>Oz Au</u>	<u>Oz Ag</u>	<u>% Pb</u>	
0.01	61.0	11.34	
0.01	127.2	7.44	
0.01	135.6	4.16	
Tr.	19.0	0.6	Reject siliceous ore from the dump

In 1965, after opening four of the top six adits, I sampled the underground workings on a relatively systematic basis and assayed 50 samples.

Including a vein section of 130 feet in the main adit level which was mostly quartz, the 50 samples averaged 35.0 oz Ag per ton across 2.4 feet of width. The highest assays that I obtained were 343.52 oz silver across 1.5 feet and 611.52 oz silver across one foot.

One specimen of massive freibergite taken in 1965 assayed gold 0.22 oz per ton, silver 910.6 oz per ton, 34.85% lead, and 6.60% copper.

*X.B.S.*

Six assays taken in June of this year assayed as follows:

<u>Oz Au</u>	<u>Oz Ag</u>	<u>% Pb</u>	<u>% Cu</u>	
	23.71	24.55		Grab sample from dump - Heavy Pb S
	238.70	0.52	5.52	Grab sample from dump - Cinder with Cu stain
	32.76	29.22		Grab sample from dump - Heavy Pb S
0.027	103.16			Vein outcrop - across 2 ft.
0.026	102.60			Grab sample - Cinder with Cu stain
-	24.31			Grab sample - Some Pb S

It must be noted here that the three diamond drill holes put down by Rexony Mining Co. Ltd. in 1965 failed to intersect the downward projection of the main showing area. This work should not be considered the final answer on the property at this time. Because of the nature of the veins it is possible that they were not recognized in the core logging.

ORE RESERVES

There are no proven or probable ore reserves on the property. However, enough data exists to make a calculation of possible ore reserves.

There is a section of ore between levels 1 and 6 that is 200 feet along the outcrop and is readily available to open cut mining to a depth of 50 feet and on which enough data exists to postulate an ore reserve.

The calculation would be using a grade of 35 oz Ag per ton across 2.4 feet of width on one vein only, as

*K. B. S.*

indicated by the underground sampling done in 1965.

The tonnage would be  $200 \times 50 \times 2.4 = 240,000$  cu. ft. per ton for a total of 2,000 tons. Then assuming that the old timers mined 200 tons the possible ore reserve figure is 1,800 tons with a gross value of  $35 \times 64.50$  per ton. The gross dollar value is in the neighborhood of  $\$157.50 \times 1800$  or  $\$283,500$ .

Since the main vein zone outcrops along a sharp and steep ridge and the hangingwall side parallels the one hill side slope it is suggested that the hangingwall rocks could be stripped off by bulldozer thus allowing the mining of the possible ore reserve by open cut surface mining to the calculated depth of 50 feet.

#### CONCLUSIONS

A proven high grade silver vein system exists on the Ethel property. The Main Vein has a proven strike length of 500 feet, of which half that length has returned average silver assays at least 35 oz silver per ton across 2.4 feet.

A potentially viable silver mining operation is indicated since the lateral and vertical extensions of the main showing area have not been fully delimited at this time.

The property is one of merit and further exploration and development work is recommended.

K.B.S.

## RECOMMENDATIONS

A bulk sampling-surface mining program is recommended for the summer season of 1975.

It should be relatively inexpensive to strip off the hangingwall overburden and surface rock with a D-7 or larger bulldozer in the main showings area because of the favorable attitude of the vein outcrops with respect to the topography. In this way, all of the possible ore reserve of 1,800 tons should be available for easy mining, loading, and trucking to the smelter at Trail, B.C.

I would recommend that a minimum of \$15,000 be spent on this program and a target set at shipping 300 tons to the smelter this season. After the smelter returns are known, and considering that the best material was mined, a decision can then be made as to the advisability of allotting further money towards additional mining and development work either immediately or in 1976.

In any event, there is an excellent chance that a profit will be realized on any money spent during this initial program.

## COST ESTIMATES

The largest cost item for the program will be the truck haul to the smelter - 180 miles. This could be as high as \$30.00 per ton which would leave \$20.00 per ton for the mining at the property if the \$15,000 budget can produce 300 tons of test ore. Since the mining will be surface stripping with a minimum of blasting, the \$20.00 per ton figure appears reasonable if the manpower requirements are carefully regulated. It should be possible to have the whole 300 tons at the smelter before October 1, 1975.

K.B.S.

Should the ore prove to be 35 ounces of silver per ton or better the gross value per ton would be at least \$150.00. Then even at double the \$50.00 per ton that I have estimated as mining and trucking costs plus a possible \$30.00 per ton for smelting charges, a per ton profit would still be realized for the work done this season.

Respectfully submitted,

*K. G. Sanders*

K. G. Sanders, P.Eng.

I have practiced my profession as a registered engineer and as a consulting engineer continuously for 25 years.

I have no interest in the Elmer Property either directly or indirectly, nor do I expect to receive any such interest including any shares or securities in any company which may enter into the sale of the property in the future.

I presently own no shares of Golden Shamrock Resources either directly, or indirectly, nor do I expect to receive any.

This report is based on my personal knowledge and examination of the Elmer Property during the years 1964, 1965, and 1966, and a further examination on June 11, 1972.

DATED at the City of North Vancouver in the Province of British Columbia this 7th day of July, 1972.

Respectfully submitted,

*K. G. Sanders*  
K. G. Sanders, P. Eng.

CERTIFICATE

I, Kenneth G. Sanders, of 1940 Limerick Place, North Vancouver, B.C., do hereby certify that:

I am an engineering graduate of the University of Toronto in Mining Geology, class of 1949.

I am a member in good standing of the Association of Professional Engineers of British Columbia.

I have practised my profession as a salaried engineer and as a consulting engineer continuously for 25 years.

I have no interest in the Ethel Property either directly or indirectly, nor do I expect to receive any such interest including any shares or securities in any company which may accrue to the vendor from the sale of the property in the future.

I presently own no shares of Golden Shamrock Resources either directly, or indirectly, nor do I expect to receive any.

This report is based on my personal knowledge and examination of the Ethel Property during the years 1964, 1965, and 1966, and a further examination on June 11, 1975.

DATED at the City of North Vancouver in the Province of British Columbia this 7th day of July, 1975.

Respectfully submitted,



K. G. Sanders, P. Eng.



CERTIFICATE OF ASSAY

GENERAL TESTING LABORATORIES CO. LTD.

To: *Mr. J. G. Smith*  
123 Main Street  
Toronto, Ontario

Quantity of material: *100 gms*  
Date of assay: *July 23, 1965*

Copy certificate to: *1*

The herby certificate is submitted for the results of assays made by us upon the herby described submitted

Sample No.	Weight (gms)	Assay Result (%)	Remarks
1001 B	100.00	75.35	
1002 B	100.00	75.35	
1003 B	100.00	75.35	
1004 B	100.00	75.35	
1005 B	100.00	75.35	
1006 B	100.00	75.35	
1007 B	100.00	75.35	
1008 B	100.00	75.35	
1009 B	100.00	75.35	
1010 B	100.00	75.35	
1011 B	100.00	75.35	
1012 B	100.00	75.35	
1013 B	100.00	75.35	
1014 B	100.00	75.35	
1015 B	100.00	75.35	
1016 B	100.00	75.35	
1017 B	100.00	75.35	
1018 B	100.00	75.35	
1019 B	100.00	75.35	
1020 B	100.00	75.35	

ASSAY CERTIFICATES  
APPENDIX I

Balance used: *100.00 gms*  
Date of assay: *July 23, 1965*

GENERAL TESTING LABORATORIES CO. LTD.  
352 HOME DISTRICT AVE. TORONTO, ONT. M5R 1A5

COPY

Quantity of material: *100 gms*  
Date of assay: *July 23, 1965*



Quantity of material: *100 gms*  
Date of assay: *July 23, 1965*

July 23, 1965

General Testing Laboratories

TO REMY MINING CO. LTD.  
1924 Limerick Place  
North Vancouver, B.C.



**CERTIFICATE OF ASSAY**



File No. 49178/  
 Date July 23, 1965

**GENERAL TESTING LABORATORIES CO. LTD.**

325 HOWE STREET • VANCOUVER 1, B.C., CANADA • TELEPHONE: 684-1374

We hereby certify that the following are the results of assays made by us upon the herein described submitted 18 samples.

MARKED	GOLD		SILVER		Silver		Silver		TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Value per Ton	Percent	Value per Ton	Ounces per Ton	Value per Ton	
	<i>uncorrected</i>								
4871 B	---		0.88						
4872 B	---		0.62						
4873 B	---		0.84						
4874 B	---		1.96						
4875 B	---		0.34						
4876 B	---		1.24						
4877 B	---		0.76						
4878 B	---		0.64						
4879 B	---		3.80						
4880 B	---		4.80						
4881 B	---		0.48						
4882 B	---		2.24						
4883 B	---		0.36						
4884 B	---		5.32						
4885 B	---		10.92						
4886 B	---		110.40						
4887 B	---		11.44						
4888 B	---		17.08						

GENERAL CERTIFICATE

4889B 7.96  
 4890 343.52  
 4891 611.52  
 4892 40.46  
 4893 0.80  
 4894 29.38  
 4895 85.66  
 4896 5.24  
 4897 5.42  
 4898 12.22

*Duplicated on second sheet K. B. S.*

*K. B. S.*

Gold calculated at \$ \_\_\_\_\_ per ounce

Calculated at \_\_\_\_\_ per lb.

DSB:AT

Silver calculated at \$ \_\_\_\_\_ per ounce

Calculated at \_\_\_\_\_ per lb.

NOTE:

Rejects retained one week.  
 Pulp retained three months  
 unless otherwise arranged.

*[Signature]*

Provincial Assayer



TO REXOL MINING CO. LTD.,

c/o Mr. K.G. Sanders

Beaton, B.C.



**CERTIFICATE OF ASSAY**



File No. 49178/4

Date July 26, 1965

**GENERAL TESTING LABORATORIES CO. LTD.**

325 HOWE STREET • VANCOUVER 1, B.C., CANADA • TELEPHONE: 684-1374

We hereby certify that the following are the results of assays made by us upon the herein described submitted 12 samples.

MARKED	GOLD		SILVER		Percent	Value per Ton	Percent	Value per Ton	Percent	Value per Ton	TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Value per Ton							
	u n c o r r e c t e d										
9779	---		0.16								
9780	---		0.42								
9781	---		5.22								
9782	---		11.30								
9783	--		7.70								
9784	---		24.06								
9785	---		6.56								
9786	---		5.84								
9787	---		1.10								
9788	---		11.02								
9789	---		17.92								
9790	---		132.68								

DSB:AT

Gold calculated at \$ \_\_\_\_\_ per ounce

Silver calculated at \$ \_\_\_\_\_ per ounce

**COPY**

Calculated at \_\_\_\_\_ per lb.

Calculated at \_\_\_\_\_ per lb.

NOTE:

Rejects retained one week.  
Pulps retained three months  
unless otherwise arranged.

*[Handwritten Signature]*

Provincial Assayer

TO REXONY MINING CO. LTD.,  
 c/o Mr. K.G. Sanders  
 Beaton, B.C.



**CERTIFICATE OF ASSAY**



File No. 49178/3  
 Date July 26, 1965

**GENERAL TESTING LABORATORIES CO. LTD.**

325 HOWE STREET • VANCOUVER 1, B.C., CANADA • TELEPHONE: 684-1374

We hereby certify that the following are the results of assays made by us upon the herein described submitted 8 samples.

MARKED	GOLD		SILVER		Percent	Value per Ton	Percent	Value per Ton	Percent	Value per Ton	TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Value per Ton							
	u n c o r r e c t e d										
1	---		14.96								
2	---		12.18								
3	---		6.44								
4	---		7.00								
5	---		16.32								
6	---		29.60								
7	---		97.74								
8	---		50.60								

DSB:AT

Gold calculated at \$ \_\_\_\_\_ per ounce

Silver calculated at \$ \_\_\_\_\_ per ounce

**COPY**

Calculated at \_\_\_\_\_ per lb.

Calculated at \_\_\_\_\_ per lb.

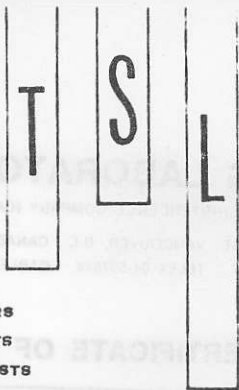
*K.G.S.*

NOTE:

Rejects retained one week.  
 Pulps retained three months  
 unless otherwise arranged.

*[Signature]*

Provincial Assayer



# Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEPHONE 684-1374

ASSAYERS  
CHEMISTS  
BIOCHEMISTS

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM REXONY MINING CO. LTD.,

REPORT NO  
V - 106/A

1 SAMPLE(S) OF Ore

Spectrographic Analysis of earthy yellow powder scraped of submitted rock

Major Constituents ..... Lead, Iron.  
 Approx. 10% ..... Silicon.  
 Intermediate Constituent ..... Copper.  
 Approx. 1% ..... Zinc.  
 0.01% - 0.1% ..... Magnesium, Sodium, Calcium, Strontium, Antimony.  
 Traces ..... Tin, Titanium, Aluminum, Manganese, Boron,  
 Arsenic, Nickel.

Silver - High Assay.

*H.B.S.*

DATE March 16, 1966

SIGNED *[Signature]*  
Provincial Assayer.

DIVISION OF TECHNICAL SERVICE LABORATORIES

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MEMBER, AMERICAN SOCIETY FOR QUALITY CONTROL - THE ASSOCIATION OF CHEMISTS, GEORGE W. CLARKE TESTING ASSOCIATION  
MEMBER, AMERICAN SOCIETY FOR QUALITY CONTROL - THE ASSOCIATION OF CHEMISTS, GEORGE W. CLARKE TESTING ASSOCIATION

# GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2  
 PHONE (604) 254-1647    TELEX 04-507514    CABLE SUPERVISE

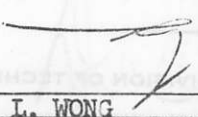
## CERTIFICATE OF ASSAY

No.: 7506-1860    DATE: June 20/75

We hereby certify that the following are the results of assays on:    **Ore**

MARKED	<del>XXX</del> OZ/ST	SILVER OZ/ST	Lead Pb (%)	Copper Cu (%)	<del>XXX</del>	<del>XXX</del>	<del>XXX</del>	<del>XXX</del>
	GR/MT	<del>XXXX</del>						
E 6040								
0751		23.71	24.55	-				
0752		238.70	0.52	5.52				
0753		32.76	29.22	-				
LW:wk								

Z.B.S.

  
L. WONG

PROVINCIAL ASSAYER

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

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1071 EAST PENDER ST., VANCOUVER, B.C., CANADA. V6A 1W2  
 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:  
**KEN SANDERS,**  
 1940 Limerick Place,  
 North Vancouver, B. C.

## CERTIFICATE OF ASSAY

No.: **7507-0362**      DATE: **July 10, 1975**

We hereby certify that the following are the results of assays on: **ORE**

MARKED	GOLD	SILVER	XXX	XXX	XXV	XXX	XXX	XXX
	OZ/ST <del>XXXXXX</del>	OZ/ST <del>XXXXXX</del>						
<b>Sample</b>								
<b># 1</b>	<b>0.027</b>	<b>103.16</b>						
<b># 2</b>	<b>0.026</b>	<b>102.60</b>						
<b># 3</b>	<b>--</b>	<b>24.31</b>						
<b>Mark</b>								

*7.9.8.*

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

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*B. Quinn per L. Wong*  
 PROVINCIAL ASSAYER

**L. Wong**

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