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'Silver Queen'

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KOOTENAY BASE METALS

REPORT ON THE SILVER QUEEN PROPERTY

KAMLOOPS MINING DIVISION

BRITISH COLUMBIA

BY

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# George Cross News Letter

"Reliable Reporting"

OCTOBER 4, 1966  
NO. 192 (1966)

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WESTERN CANADIAN INVESTMENTS

## NADINA EXPLORATIONS LIMITED

B.C. DEPARTMENT OF MINES ADDS TO AVAILABLE INFORMATION ON SILVER QUEEN NEAR HOUSTON - Nadina Explorations Limited, incorporated in B.C. in April 1964, acquired, among other properties, the Silver Queen which had been under exploration from time to time since the original discovery in 1912. Metal values are in lead and zinc with appreciable copper and minor gold and silver. This property is on the east side of Owen Lake, between elevations of 2,500 and 3,500 feet, and access is by gravel road, 27 miles south of Highway 16 at a point 2 miles west of Houston, B.C. Latest information to be made public since the shares of Nadina were listed on VSE in March of this year, is provided in the recently released Lode Metals section of the 1965 report of the B.C. Minister of Mines. The review of the Silver Queen is by S.S. Holland, B.A.Sc. (B.C.), Ph.D (Princeton), a geological engineer.

Dr. Holland says that on the Silver Queen 3 veins outcrop within 600 feet in the canyon of Wrinch Creek. They have been traced on surface to the east and west in bulldozed trenches. No. 1 vein outcrops in the canyon at 2,900 ft. elevation. On the west wall, the vein is in microdiorite on the S.W. side of a black fine-grained basalt dyke which the vein crosses and then follows on its N.E. side. It has an indicated exposed length of 400 ft. west of the canyon and at least 200 ft. east of the canyon. An old adit on it was covered by road-building. No. 2 vein is at 2,960 ft. elevation, 400 ft. upstream from No. 1. The vein segment west of a northerly striking fault is 1,000 ft. long. The segment east of this fault is about 400 ft. long. No. 3 vein is at 3,000 ft. elevation and 250 ft. upstream from No. 2. It is followed for about 180 ft. in from the portal of No. 3 drift west and is followed for about 180 ft. in No. 4 adit. It has an indicated length of 900 ft. west of a northerly striking fault and east of the fault a length of 700 ft. to the point where No. 3 and No. 2 veins appear to join. For 250 ft. east of this junction there is a segment 350 ft. long.

### Average Assays Provided by B.C. Department of Mines

Nadina has had a crew engaged in raising and drifting since January, 1966. The latest information the company has made available is that filed with VSE in March. The average assays provided by the B.C. Department of Mines follow:

Vein No.	No. of Samples	Length feet	Width feet	Gold Oz/T	Silver oz/T	Copper %	Lead %	Zinc %	Remarks
1	4	600	6.75	0.02	6.3	0.66	1.6	5.3	Samples taken from surface cuts.
2	12	1,200	6.40	0.02	2.8	0.10	4.3	5.2	From surface cuts.
	9	- -	9.40	0.02	3.76	0.30	3.3	9.6	Samples by examining engineers from vein cut by Earl adit 2,655 ft. from portal, believed to be No. 2 vein.
3	6	750	4.80	0.02	6.90	2.20	3.0	6.1	From surface cuts west of fault.
	4	750	5.50	0.06	9.20	3.30	2.2	4.4	From surface cuts east of fault.
	18	180	4.15	0.085	12.15	2.60	(not assayed)		Samples from No. 4 adit, by Canex.
5	5	300	4.80	0.06	5.9	0.14	4.3	7.7	From segment of faulted vein 250 ft. SE of junction of veins 2 and 3

Except where otherwise mentioned the assays were taken by the company. (Continued Page 2)

### SUMMARY & CONCLUSIONS

From a previous report on the property by C. M. Campbell, Jr. (December, 1952) and diamond drilling carried out in 1957 it would appear that this property warrants further intensive development.

Surface assays from West Creek show silver values ranging up to 84.5 ozs./ton with 0.36 ozs. gold/ton, 3.8% lead and 4.2% zinc as accessory minerals. One high gold assay ran over 2 ozs. with lead at 13.9% and zinc at 27.5%. East Creek assays ran as high as 49.0 ozs. silver, 0.16 ozs. gold, 22.2% lead and 15.5% zinc. Vein width vary from one to 5½ feet.

Mine making possibilities are quite attractive but before any underground work is contemplated a detailed, combined geological geophysical survey should be undertaken with accompanying stripping where indicated.

Pending the results of this survey, a detailed grid diamond drill program should be undertaken with possibly some underground drifting.

### DESCRIPTION & LOCATION OF THE PROPERTY

The Silver Queen group is situated at approximately 15°22' Lat. 122° Long., 25 miles northwest of Lytton B. C.

Lytton is served by the Trans Canada Highway and both the C.P.R. and the C.N.R.

The property consists of 15 crown granted minerals and three fraction claims, listed as follows:

Silver Queen M.C.	No. 1	Reg. No. L 2169
" "	" 2	" " L 2171
" "	" 3	" " L 2172
" "	" 4	" " L 2170
" "	" 5	" " L 2168

Patrick M.C.	No. 1	Reg. No. L 7221
"	" 2	" " L 7222
"	" 3	" " L 7223
"	" 4	" " L 7224
"	" 5	" " L 7225
"	" 6	" " L 7226
"	" 7	" " L 7227

Regina M.C.	No. 1	Reg. No. L 2173
"	" 2	" " L 2174

Sunrise M.C.		Reg. No. L 7228
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Leg. Fractional M.C.		Reg. No. L 7229
Long	" M.C.	" " L 7230
Fall	" M.C.	" " L 7231

15 mineral claims - 3 fractions

#### ACCESSIBILITY

The property is reached by four miles of road from Lytton, 21 miles of pack trail from the Fraser River to the Stein River, 15 miles up the Stein River to Cottonwood Creek and six miles up Cottonwood Creek to the property.

Until such time as a good all-weather road is constructed, the property would be best served by helicopter.

#### TOPOGRAPHY & CLIMATE

The property lies at an elevation of 6000', in a mountainous area. The climate is moderate with annual precipitation of 45 inches. First snow arrived between October 15th - November 30th and in sheltered spots snow would be in evidence as late as July 15th.

POWER, WATER & TIMBER

There is adequate water for both hydro development and all mining, milling and domestic purposes. Timber is in good supply and consists chiefly of balsam, spruce, pine and fir.

GENERAL GEOLOGY

The veins occur in rhyolite and in altered quartz diorite with aplite dykes cutting through both formations.

There is a gradation from the quartz diorite to granite and sections of the rhyolite have been reclassified as altered andesite or greenstone.

The principal ore bearing minerals are, in order of abundance, sphalerite, galena, pyrite and some chalcopyrite.

The following is a spectrographic analysis of a composite sample taken by C. M. Campbell, Jr:

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Spectrographic Analysis

Composite of Sample Nos. 0131 - 0147 inclusive.

	<u>Approximate Quantity</u>	
Silicon	Major Constituent	
Lead )		
Iron )		
Zinc )	Intermediate	
Aluminum )	Constituents	
Potassium	1	%
Sodium	0.1	%
Manganese	0.1	%
Calcium	0.1	%
Titanium	0.05	%
Copper	0.05	%
Barium	0.05	%
Magnesium	0.05	%
Boron	0.001	%
Gallium	0.001	%
Strontium	0.001	%
Chromium	0.001	%
Silver	Present	

ECONOMIC GEOLOGY

The main values from the veins are, in order of economic importance, silver, gold, zinc and lead. The relationship between gold and silver and the sulphide minerals has not yet been established. The ore bearing veins vary from 12" to over five feet with an average of three feet being taken as a minimum mining width.

From the sampling to date the value of the ore averages between \$30 - \$35/ton. No estimate is given for possible tonnage at present but it is believed that substantial tonnage would be outlined from a comprehensive, geological, geophysical and later diamond drill program.

In the accompanying map location of the various showings are pinpointed by a red letter.

The results of these showings are summarized as follows:



AREA	STRIKE	DIP	WIDTH	HANGING WALL	FOOT WALL	GENERAL	WIDTH OF SAMPLE	Au OZ	Ag OZ	Pb %	Zn %
<u>EAST CREEK:</u>											
A						Reported vein completely covered by caving in trench.					
B	N60°E	50°N	63"	competent	9"-12" bands of heavy sulphide	Host rock is altered porphyry with sulphide mineralization disseminated throughout.	63"	0.09	34.9	3.6	5.9
C			12"			Measurements and samples taken in oxidized and decomposed zone.	12"	0.08	30.3	22.2	10.4
E			24"			Samples and measurements as in C.	24"	0.01	10.0	1.11	3.5
F	N65°E	45°-50°N	42"	competent	competent	Vein exposed at bottom of creek.	42"	0.04	2.5	0.6	3.0
G						Believed to be float.					
<hr/>											
H						These samples taken from two pits in a 12 foot gossen zone half-way between East and West Creek.		0.04	20	1.6	Tr.
<u>WEST CREEK:</u>											
I						Decomposes surface showing.		0.04	18.5	10.3	11.3
J	N60°E	72°-80°S		see assay report	heavy sulphides	2' decomposed material	Vein is exposed for 30' along strike and appears strong and persistent.				

SEE PAGE 9 FOR DETAILS

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<u>Sample No.</u>	<u>Location</u>	<u>Width</u>	<u>Au Ozs.</u>	<u>Ag Ozs.</u>	<u>Pb %</u>	<u>Zn %</u>
0134	H.W.	3"	2.58	46.0	8.9	27.5
0135	F.W.	24"	0.36	84.5	2.8	4.2
0149	H.W.	3"	0.40	99.1	8.7	20.0
0150	F.W.	24"	0.24	33.6	1.1	1.8
Average of east face, cutting Au in 0134 to 0.40 oz.						
		27"	0.31	60.4	2.6	5.2
0136		24"	0.08	16.7	9.9	12.5
1193		15"	0.04	16.6	7.7	11.9
0137		12"	0.08	37.6	13.9	10.2
The average of samples 0134-0137 and 0149-0150 based on a three foot mining width is						
			0.11	23.0	4.3	5.2

ECONOMIC POSSIBILITIES

With the limited amount of development work to date any attempt of producing an accurate tonnage and grade estimate is premature. However, with a minimum mining width of three feet apparently feasible and with a grade of better than \$30/ton at present indicated, then a profitable economic operation could be anticipated providing the additional development work supports the initial results.

RECOMMENDED DEVELOPMENT WORK

The following program should be initiated as soon as possible:

- (1) Detailed geological mapping of the entire group of claims with special emphasis in and around the area of greatest mineralization, stripping where feasible.

Time: 2 months	Cost:	\$20,000.00
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- (2) Detailed ground geophysical survey. A ground electromagnetic survey would be best suited for this type of deposit.

Time: 2 months		20,000.00
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- (3) Camp and equipment - initially tent camp only. 2,500.00

- (4) Administrative 2,500.00

\$45,000.00

10% Contingencies 4,500.00

\$49,500.00

Vancouver 2, B. C.  
May 20th, 1965.

Craigie Hood, Jr.

CERTIFICATE

I Craigie Hood, Jr. of the city of Vancouver, Province of British Columbia hereby certify:

1. That I am a Geologist and reside at 1395 Beach Avenue, Vancouver 5, B. C.
2. That I am a graduate of McGill University, Montreal, Quebec with a Bachelor of Science degree and that I have been practicing my profession as a Geologist for ten years.
3. That I do not have nor do I expect to receive either directly or indirectly any interest in the properties or securities of Kootenay Base Metals.
4. That the Company Report had been prepared from an examination of other reports, maps, assay plans and diamond drill sections.
5. That I am a member of The Canadian Institute of Mining and Metallurgy.

Dated this 20th day of May, 1965.

  

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CRAIGIE HOOD, JR., BSc.