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REPORT ON  
CALLAGHAN CREEK JOINT VENTURE CLAIMS  
VANCOUVER MINING DIVISION

FOR  
GOLDEN STANDARD MINES LTD.  
&  
YUKON GOLD PLACERS LTD.

BY  
J.W. MacLeod, P.Eng.  
Vancouver, B.C., December 31, 1975

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ILLUSTRATIONS

	<u>SCALE</u>
LOCATION	1"=4 miles
PLAN OF SURFACE	1"=400'

APPENDIX

ENGINEERS CERTIFICATE

INTRODUCTION

The following report is based on a review of two geochemical reports by G.E. White, Consulting Services. The investigation by bulldozer and rock work in the fall of 1974 of the anomalous indication obtained by the soil surveys was under the direction of the writer. The original exploratory work on what is now Northair Mines, 3 miles to the northeast, was also carried out under the direction of the writer.

SUMMARY & CONCLUSIONS

The Joint Venture group of 40 mineral claims and fractions is located between two significant occurrences of gold-silver-lead-zinc-copper mineralization; that of Northair Mines to the northeast and Van Silver Mines to the south.

Previous work on the ground has resulted in the discovery of mineralization and anomalous conditions requiring detailed follow up.

A program of exploration consisting of detailed prospecting, soil sampling and bulldozer work estimated to cost \$20,000 in the first phase is recommended.

PROPERTY

The property under consideration consists of the following  
40 claims and fractions.

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>	<u>EXPIRY DATE</u>
SNOW 16-21	22363P - 22368P	Nov. 17, 1977
VAN 63-70	11989H - 11996H	July 4, 1978
VAN 72	11998H	July 4, 1978
VAN 74	12000H	July 4, 1978
KAY 1	20568K	Aug. 16, 1976
KAY 4	20571K	Aug. 16, 1976
KAY 5-9	20572K - 20576K	Aug. 16, 1977
KAY 11-22	20578K - 20589K	Aug. 16, 1977
KAY 24	20591K	Aug. 16, 1977
KAY 26	20593K	Aug. 16, 1977
KAY 28	20595K	Aug. 16, 1977
KAY 31Fr.	20598K	Aug. 16, 1977
KAY 32Fr.	20599K	Aug. 16, 1977

These claims are covered by an option agreement dated  
Aug. 26, 1974 between the following companies:

Van Silver Explorations Ltd. (N.P.L.)  
118-815 West Hastings St.,  
Vancouver, B.C.

Golden Standard Mines Ltd.  
#333-885 Dunsmuir St.  
Vancouver, B.C.

Yukon Gold Placers Limited  
#420-890 West Pender St.  
Vancouver, B.C.

There is considerable overlap within this group so that it  
would be in the best interest of the parties involved to  
restake the area involved under the new grid staking procedure.

HISTORY

The Van Silver property adjoining to the south of the Joint Venture group covers showings of gold, silver, lead and zinc which have received sporadic attention since the early 1920's. The Snow and Van claims in the group are a portion of the Van Silver ground in this area and was last explored by geochemical surveys made by Noranda in 1970-71.

The KAY claims were staked in 1973 during the activity generated by the developments on Northair Mines property which adjoins to the east.

LOCATION & ACCESS

The Joint Venture group is located along the west side of Callaghan Creek in the Vancouver Mining Division and shown on Dept. of Mines Mineral Claim Map 92J3E1/2. Coordinates are 50°06'N 123°08'W.

All of the property is readily accessible by recently constructed logging roads which take off from the paved highway, 26 miles north of Squamish.

GENERAL

The claims cover a portion of the steep eastern slope of Brandywine Mtn. through a vertical range of 1000 feet starting at elevation 2200 feet at Callaghan Creek. This slope is typical coastal rain forest which is in the process of being clear logged.

The heavy snowfall limits the field season to the period between June 1 and October 31.

GEOLOGY

The regional geology is available in G.S.C. Paper 75-1 Part A, 1974 by Roddick and Woodsworth.

The claim group is underlain by metavolcanic rocks, mainly greenstone derived from andesitic flows and pyroclastics. This same assemblage hosts the mineral occurrences on the adjoining Northair and Van Silver properties.

MINERAL OCCURRENCES

The accompanying plan on a scale of 1" = 400 feet shows the results of follow up of the geochemical indications obtained by the two surveys carried out during the summer of 1974 by G.S. White Geophysical Services.

Plugger and hand trenching on the anomalies located on the "Noranda Grid" area opened up a number of small lenses of lead-zinc mineralization in the schistose greenstone. Although these are discontinuous lenses a few inches in width, sufficient mineral has been uncovered to explain the geochemical indications.

Similar results were obtained on the "Yukon Grid" anomalies, but overburden proved too deep for the cat employed to test the anomaly between 34+00 and 38+00N.

Analysis of soil samples for gold returned a number of scattered anomalous values not related to the heavy metal results which require follow up. The soil samples were collected from the B horizon which is not the best portion for the soil section for determining the presence of gold. It has been established that in many areas only the A horizon (or C) is indicative of the presence of gold in the underlying



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MINERAL OCCURRENCES CONT'D

rock. Therefore since gold is the principal target of exploration in this area separate sampling for this metal has to be carried out.

The unique feature of the Northair mineralization is the carbonate in the quartz-carbonate hosting the gold-silver values. It has been suggested that the carbonate is of volcanogenic origin. Therefore, the most significant exposure on the Joint Venture ground is that of quartz-carbonate on the road cut at 213+00E 235+00N.

RECOMMENDATIONS

The indications uncovered to date on the Joint Venture ground require follow up in the form of detailed prospecting, soil sampling for gold and bulldozer stripping.

With baseline control extending 2000 feet northeast and 1500 feet southwest from the quartz-carbonate outcrop soil samples should be taken on cross lines at 100 foot intervals. Sampling procedure will involve combining 4 cuts of the A horizon for each 100 feet of crossline.

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ESTIMATED COST

PHASE I

Prospecting	2 men 1 month	\$4,000.00
Geochemistry	500 samples @ \$10	5,000.00
Trenching	Cat&rock work	8,000.00
Geology, supervision, assaying		<u>3,000.00</u>
		\$20,000.00

PHASE II

This phase will be dependent on the results of Phase I.

2000 feet of drilling @ \$25	\$50,000.00
Total Budget Phase I & II	\$70,000.00

Respectfully submitted,



J.W. MacLeod, P.Eng.

Vancouver, B.C.

December 31, 1975