

REPORT ON

92 H/16 WM GROUP

ROYAL CANADIAN VENTURES LTD.

at

ASPEN GROVE, B.C.

49° 120° N.E.

N.B. Vollo, P. Eng.

February 7th, 1972.

TABLE OF CONTENTS

	Page
SUMMARY	I
LOCATION & ACCESS	i
TOPOGRAPHY & CLIMATE	1
FIELD WORK	1
HISTORY & PREVIOUS WORK	1
GEOLOGY	2
GEOCHEMICAL SURVEY	2
ELECTRO-MAGNETIC SURVEY	2
CONCLUSIONS & RECOMMENDATIONS	3
QUALIFICATIONS OF OPERATORS	4
AFFIDAVIT ON EXPENDITURES	5
Maps in Pocket	
EM-16 Survey	I ^{††} = 800†
▶ Geochemical Plan, Total Copper,	
Molybd ė num 3 Geochemical Plan, Total Zinc	i'' = 800' $i'' = 800'$
: Coochemical Plan Total Mn	177 - 8001

SUMMARY

Approximately 650 soil samples were analysed for Cu, Zn, Mo, Mn, and about 30 miles of V.L.F. - EM survey completed. Nothing of interest was uncovered.

LOCATION AND ACCESS

The group is located about 8 miles south east of Aspen Grove, and can be reached by good secondary roads from Highway #5.

TOPOGRAPHY & CLIMATE

The property lies between 4,000 and 4,500 feet above sea level. It is within the interior drybelt and precipitation is fairly low. It is covered by a growth of lodgepole pine in various stages of maturity and contains a few small open hay meadows. Pothole and Shrimpton Creeks flowed continuously during the summer of 1971 while other streams in the group dried up completely.

FIELD WORK

Three men were employed from July 12th, to August 5th. About 650 soil samples were collected over 47 miles of grid and 30 miles of VLF-EM survey completed.

HISTORY & PREVIOUS WORK

The area has been staked previously but the writer has no record of work done. It was mapped by H.A. Rice, in 1939, - 44 and a map published as part of GSC Memoir 24C.

GEOLOGY

The group is underlain by volcanic rocks of the Nicola Group. (Rice, 1960). A small dyke like body of feldspar porphyry occurs just east of the creek on claim WM-72.

GEOCHEMICAL SURVEY

Samples were taken at 400' intervals along the east-west lines 1400 feet apart and north-south lines 2800 feet apart, and silt samples taken from streams intersected by these lines. Soil augers were used and samples placed in kraft paper envelopes and sent to Core Laboratories in Vanœuver. Analysis were made for Cu, Zn, Mn, Mo using aqua regia extraction and the atomic absorption method.

A poorly developed podzol type soil profile is present, and samples were taken from the "B" horizon where recognizable. Depth of overburden is not known, but probably fairly low. Outcrop is somewhat sparce but scattered over most of the group.

Copper background is about 20 ppm with no anomalous values. Zinc background is about 40 ppm, with a few zones above 100 ppm, but as these coincide with high Mn areas, can be discounted. Mo background is below I ppm, with no significant anomaly. Analysis are plotted on the accompanying map (in pocket).

ELECTRO-MAGNETIC SURVEY

Readings were taken at 100 foot intervals along lines 1400 feet apart, using a Ronka EM - 16 unit. NPG, Jim Creek, Washington, was

used as source. Readings are shown plotted in profile form on the accompanying map (in pocket).

The profiles show moderate relief as would be expected over volcanic terrain, but very few consistant trends are apparent and no significant anomalies present.

CONCLUSIONS & RECOMMENDATIONS

No geochemical or geophysical zones of interest were outlined and no further work is recommended.

N.B. Vollo, P. Eng. February 7th, 1977

QUALIFICATIONS OF OPERATORS

Michael Fennell, is 22 years of age and has completed Grade 12 at Barriere, B.C. He has been employed by Royal Canadian Ventures for 2 years. He has been carefully instructed in the operation of the Ronka EM-16 Unit by the undersigned who knows his work to be carefully and reliably done.

N.B. Vollo, P. Eng.

February 7th, 1972.

AFFIDAVIT ON EXPENDITURES

Personnel:

N.B. Vollo, Professional Engineer, Supervision, interpretation and report - 2 1/2 days @ \$80.00		\$200.00
L. Loranger, Field work, July 12th to August 5th, 20 days @ \$45.00		900.00
M. Fennell, Field work, July 12th to August 4th 21 days @ \$35.00		935.00
Plotting and drafting - II days @ \$35.00		385.00
A. Berke, Field work, July 12th to August 4th 21 days @ \$30.00		630,00
M. Hjelt, Piotting & drafting - 2 days @ \$45.00		90.00
<u>Analysis</u>		
Core Laboratories - Vancouver, B.C. Invoices C488 and C403		1,601.63
Camp and trave! expenses		289.99
Transportation - Company vehicles 1619 miles @ 12¢		194.28
Miscellaneous - Prints, express, flagging, etc.	_	183.00
	\$_	5,408.90

I, Nels B. Vollo, of the City of Kamloops in the Province of British Columbia, make this declaration, conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath by virtue of the Canada Evidence Act.

Néls B. Vollo, P. Eng.

Declared before me at the City of Kamloops, in the Provinceof British Columbia, this 25th day of 1972, A.D.

Commissioner for taking affidavits for Bratish Columbia.







