

3195

GEOCHEMICAL REPORT

ON

THE 82M/12 VM #2 GROUP

OF

ROYAL CANADIAN VENTURES LTD.

AT

VAVENBY, B.C., 51° 119° NW

BY

N.B. Vollo, P.Eng.

Sept. 17th, 1971

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3195 MAP

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Map in Pocket

1) Geochemical Survey, 1"=400'

Summary

A reconnaissance soil geochemical survey was completed with approximately 360 samples taken over 15 miles of grid. Scattered high copper and zinc analysis are present but no distinct anomalous zone can be defined.

Location and Access

The group is located about five miles south of Vavenby, a village on the North Thompson river, and is about 70 air miles northeast of Kamloops. Good logging roads from either Vavenby or Barriere pass through the property.

Topography and Climate

Topography is relatively subdued though elevations range from 4500' to 5800' above sea level. Precipitation is moderately high and a heavy rain forest type growth is present. Much of the group has been recently logged, slashed and burned. Snow cover may be greater than 10 feet and may remain at higher elevations until the end of June.

Claims

The group consists of 32 claims, all in the Kamloops Mining Division, as follows:

VM 61-80,	Record Numbers	91573M-91592M
VM 81-88,	"	" not available
VM 99-102,	"	" " "

All are held by Royal Canadian Ventures Ltd.

History and Previous Work

The group was formerly staked as the Bob and Al claims, but no work was apparently done on them. The group adjoins east of the Hail claims held by the Quebec Cartier Mining Co., on which considerable work is being done on zones of low grade copper mineralization. It adjoins north of the VM Group on which copper mineralization was uncovered in 1970.

The area was mapped by R.B. Campbell in 1962-63 and a map on the scale of 1"= 4 miles published by the G.S.C. in 1963.

Field Work

Two men were employed from August 23rd

to September 10th, 1971. Approximately 15 miles of grid was blazed and chained and 360 soil samples taken.

General Geology

The group is located immediately north of the Barriere Intrusion, a biotite granodiorite of Late Cretaceous age, cutting sedimentary and volcanic rocks of Paleozoic age (Campbell, 1963). The Paleozoic rocks strike generally easterly, parallel to the intrusive contact, and dip north at moderate angles. They are metamorphosed and altered to schists and gneisses of indeterminate but at least partly volcanic origin, as indicated by abundant quartz eye schists and gneisses. Limestone members several hundred feet thick form prominent scarps.

Mineralization occurs as pyrite and chalcopyrite disseminations and fracture coatings in sericite chlorite schists and quartz eye gneisses.

Geochemical Survey

Soil samples were collected at 200' intervals along north south lines 1000' apart and along

the east west claim location lines 3000' apart. Silt samples were also taken from streams intersected by these lines. A soil auger was used, the samples placed in kraft paper envelopes and sent to TSL Laboratories in Vancouver. Analysis were made for total Cu, Zn, Ag and Mn using perchloric acid extraction and the atomic absorption method. Copper and zinc are shown on the accompanying map (in pocket).

Outcrop is quite sparse and the thickness of till may vary considerably. It is probably relatively thick in the central part of the group, around Avery Lake.

A well developed podzol type soil profile is present with a distinctive rusty red "B" horizon up to two feet thick. In a few road cuts highly mangiferous layers were observed one to two feet below the "B" zone. All samples were taken from the upper part of the "B" horizon.

Copper background is about 35 ppm with a few scattered analysis ranging to 440 ppm. No consistently anomalous zone is present.

Zinc background is about 60 ppm with some concentration of above background values along the

west boundary. Other higher analysis are isolated and no significantly anomalous zone is present.

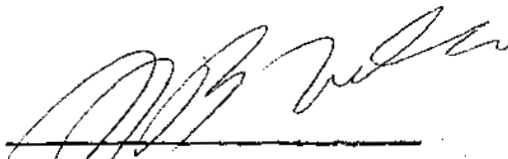
Silver analysis are all below 0.5 ppm.

Manganese background is about 400 ppm with numerous analysis above 1000 ppm, ranging to 3700 ppm. The highs correlate poorly with copper and zinc highs and the latter cannot therefore be entirely discounted as being taken from manganiferous horizons.

Conclusions and Recommendations.

No significant geochemical anomaly is present. However, because of favorable geology and the proximity to known mineralization, the central part of the group should be tested by other methods.

Approximately five miles of IP survey should be done between Line 50+00W and 10+00E



N.B. Vollo, P.Eng.
Sept. 17th, 1971

AFFIDAVIT ON EXPENDITURES

PERSONNEL

N.B. Vollo, P.Eng., supervision, interpretation and report, 3 days @ \$80	\$ 240.00
L. Loranger, Aug. 23rd - Sept. 10th, field work, 11 days @ \$45	495.00
M. Fennell, Aug. 31st - Sept. 10th, field work, 7 days @ \$35	225.00
Draughting, 2 days @ \$35 -----	70.00
A. Berke, Aug. 24th - Aug. 27th, field work, 4 days @ \$30	120.00
M. Hjelt, plotting and draughting, 2 days @ \$45	90.00

ANALYSIS

TSL Laboratories, Vancouver, B.C. Invoice No. C595	361.90
" " C637	<u>500.55</u>
	862.45

ACCOMODATION AND SUBSISTANCE

Wells Grey Hotel, Clearwater, B.C.	207.90
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TRANSPORTATION

Company vehicles, 1447 miles @ 12¢	163.84
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MISCELLANEOUS

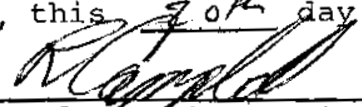
Prints, Flagging, etc.	29.83
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29.83
\$2504.02

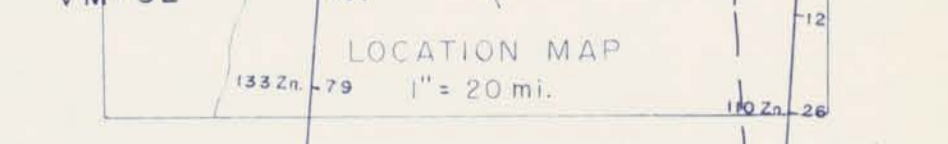
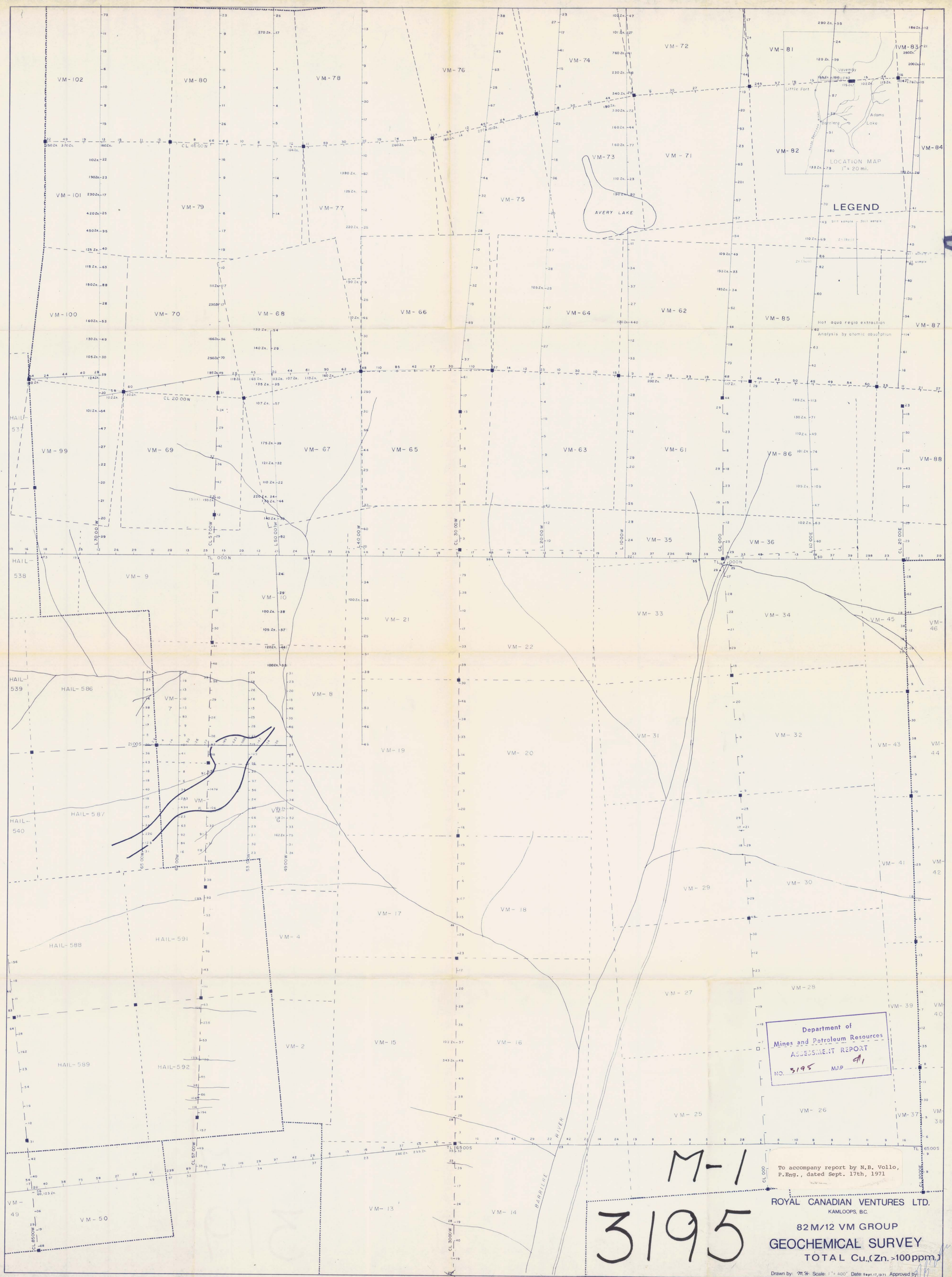
I, Nels B. Vollo of the city of Kamloops in the Province of British Columbia, make this declaration, conscientiously believing it to be true, and knowing it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.



Declared before me at the City of Kamloops in the Province of British Columbia, this 7th day of September, 1971, A.D.


Commissioner for taking affidavits for British Columbia

112476



LEGEND

- 43 Soil sample - Soil sample
- 43 Hot aqua regia extraction
- 43 Analysis by atomic absorption

Department of
Mines and Petroleum Resources
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To accompany report by N.B. Vollo,
P.Eng., dated Sept. 17th, 1971

ROYAL CANADIAN VENTURES LTD.
KAMLOOPS, B.C.

82 M/12 VM GROUP
GEOCHEMICAL SURVEY
TOTAL Cu, (Zn >100ppm)

Drawn by: [Signature] Scale: 1" = 4000' Date: Sept. 17, 1971 Approved by: [Signature]