

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3124 MAP

A REPORT
ON THE
VAN GROUP OF MINERAL CLAIMS
ST. ANNES CREEK, FRANKLIN CAMP AREA, B.C.

82 E / 8W

BY
J.S. KERMEEN, P. ENG.

3124

July 2, 1971

Grand Forks, B.C.

- #1 Location Map
- 2 Geochem Survey
- 3 Bulldozer Trenches

INTRODUCTION

The Van Group of mineral claims is located on the east side of Burrell Creek, immediately north of St. Annes Creek, some thirty one miles north of Grand Forks, B.C.

The group comprises the following staked mineral claims:

Van # 1 to # 12 incl.

Record Nos. 32933 to 32944 incl.

The claims were recorded on June 1970, by Mr. Walter A. Buller on behalf of a partnership called B & H Prospecting. The assets of the latter were later acquired by Cronus Minerals Limited, Box 820, Grand Forks, B.C.

The Van Group was staked on the basis of a discovery of copper-zinc mineralization, made by W.A. Buller and S. Haydukewich. Follow-up work included a geochemical survey, bulldozing of overburden, and drilling and blasting of solid rock to facilitate sampling.

All work, including the initial prospecting was carried out under the direction of the writer.

GEOLOGY

According to Geological Survey of Canada Map 6-1957 Kettle River (East Half), the Van Group is underlain entirely by granitic Valhalla Intrusions probably of Lower Cretaceous age.

Observations by the writer in the vicinity of the known mineralization suggest that the rock is an altered granodiorite. It is cut by late feldspar porphyry.

The main structural feature of the area is the Granby River fault, a major north-south structure that has been traced for some 40 miles. The Van Group lies some 1500 to 4500 feet west of the Granby River fault.

The Van Group lies a few miles south-east of former producing mines of the Franklin Camp where copper mineralization occurs both in skarn and intrusive rocks.

GEOCHEMICAL SURVEY

Soil samples were taken from a grid covering an area measuring 1000 feet x 1400 feet covering parts of claims Van 1 to 4 incl. (See attached map).

- TOPOGRAPHY:** Throughout the surveyed area the topography generally slopes westerly at about 5° to 10°.
- OVERBURDEN:** Overburden consists of sand, silt and gravel, with a light organic soil cover. Depths are not accurately known but probably range from 0 to 30 feet with depths less than 10 feet over most of the area.
- VEGETATION:** Most of the surveyed area is covered with a mixture of small Douglas fir, pine and cedar trees. Previous logging operations had removed most of the larger trees.
- SURVEY CONTROL:** Chain and compass using plastic flagging to mark stations.
- SAMPLING
TECHNIQUE:** Samples taken from top of "B" zone, or at least from the brown zone immediately underlying a thin grey leached zone which in turn underlies the thin humus layer at surface. Samples were taken in duplicate with a stainless steel trowel and transferred to new paper bags.
- ANALYSIS:** All samples were forwarded to Chemex Labs, Ltd., North Vancouver for analysis for copper and zinc by atomic adsorption. In addition three samples were run for silver.

RESULTS: All results are plotted on the attached plan on a scale of 1 inch = 100 feet. Only the zinc values are contoured.

Background copper values are seen to be very low. Only three of the copper readings are considered anomalous: (samples 16, 17 & 3) and these are questionable. However a distinct zinc anomaly is indicated as outlined by the 500 ppm contour. It measures some 700 feet (north-south) by 1100 feet (east-west) and is still open to the east.

TRENCHING

Following completion of the geochemical survey bulldozer trenching was carried out on claims Van 1, 2 and 3 for the purpose of exposing bedrock. The trenches are shown on an attached plan on a scale of 1 inch = 40 feet. Five pits were blasted into solid rock within the trenches to facilitate sampling.

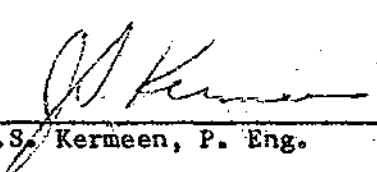
Some two thirds of the trenches is underlain by altered granodiorite. The rocks appear to have been crushed, silicified and mineralized with pyrite, sphalerite and minor chalcopyrite. Assays on samples taken from the trenches are shown on the map.

SUMMARY AND CONCLUSIONS

The Van Group of 12 mineral claims is located 31 miles north of Grand Forks, B.C.

The property underlain by granitic rocks of Lower Cretaceous Age, lies within a mile of a major regional fault.

Low grade copper-zinc mineralization occurring in altered granitic rocks has been established on the property. The presence of this mineralization in favorable host rocks near a favorable structure suggest that the area is favorable for low grade "porphyry-type" mineralization and further work is warranted.



J.S. Kermeen, P. Eng.

SUMMARY OF EXPENDITURES

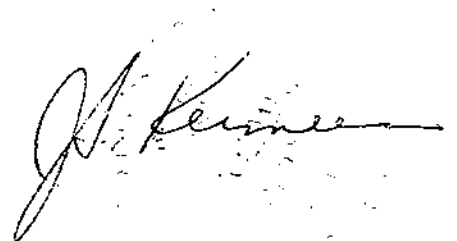
Geochemical Survey

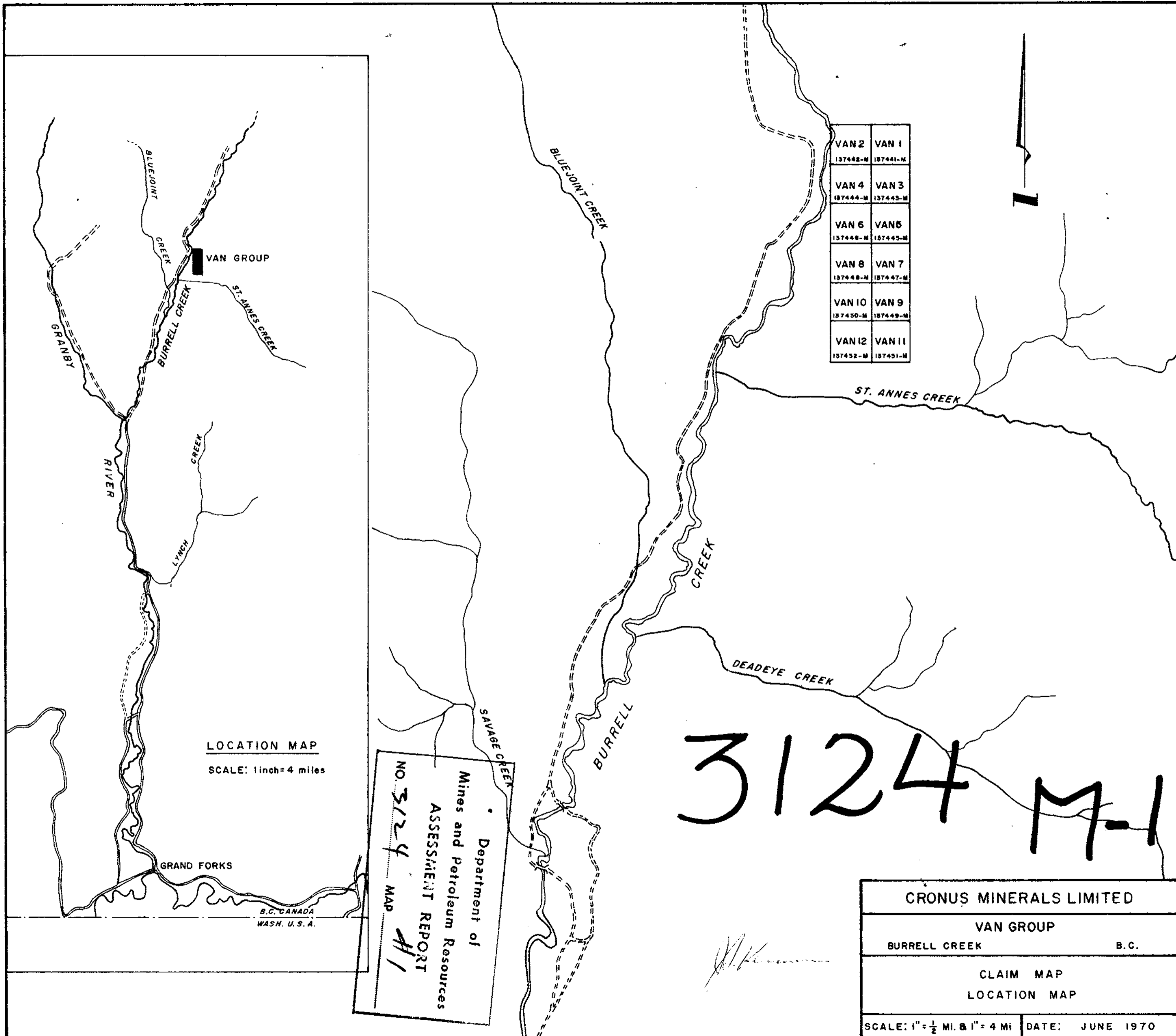
W.A. Buller - 2 days @ \$30.00 (June 27-28/70)	60.00
S. Haydukewich - 2 days @ \$30.00 (June 27-28/70)	60.00
Camp expenses re above	40.00
J.S. Kermeen, P. Eng. - consulting, engineering, etc. (June 30 - July 6/70) 2 days @ \$135.00	270.00
Sample Analysis	
40 samples @ \$1.50	60.00
3 samples @ \$2.00	6.00
Drafting - K. Osachoff - 16 hours @ \$4.00	64.00
Typing - F. Makaoff	<u>20.00</u>
	\$580.00

Trenching

D. Onions - 6 days @ \$30.00 (Feb. 1-6/71)	180.00
S. Haydukewich - 6 days @ \$30.00 (Feb. 1-6/71)	180.00
J.S. Kermeen - 2 days @ \$135.00 (Feb. 2 & 6/71)	270.00
D-4 Caterpillar Tractor - plowing roads and trenching Feb. 1 - 3/71 18 hours @ \$14.00	252.00
Rental on rock drill - 2 days @ \$15.00	30.00
Dynamite, caps, etc.	25.00
Assays	<u>50.00</u>
	<u>\$987.00</u>

Total \$1,567.00





VAN 2 137442-M	VAN 1 137441-M
VAN 4 137444-M	VAN 3 137443-M
VAN 6 137446-M	VAN 5 137445-M
VAN 8 137448-M	VAN 7 137447-M
VAN 10 137450-M	VAN 9 137449-M
VAN 12 137452-M	VAN 11 137451-M

LOCATION MAP
SCALE: 1 inch = 4 miles

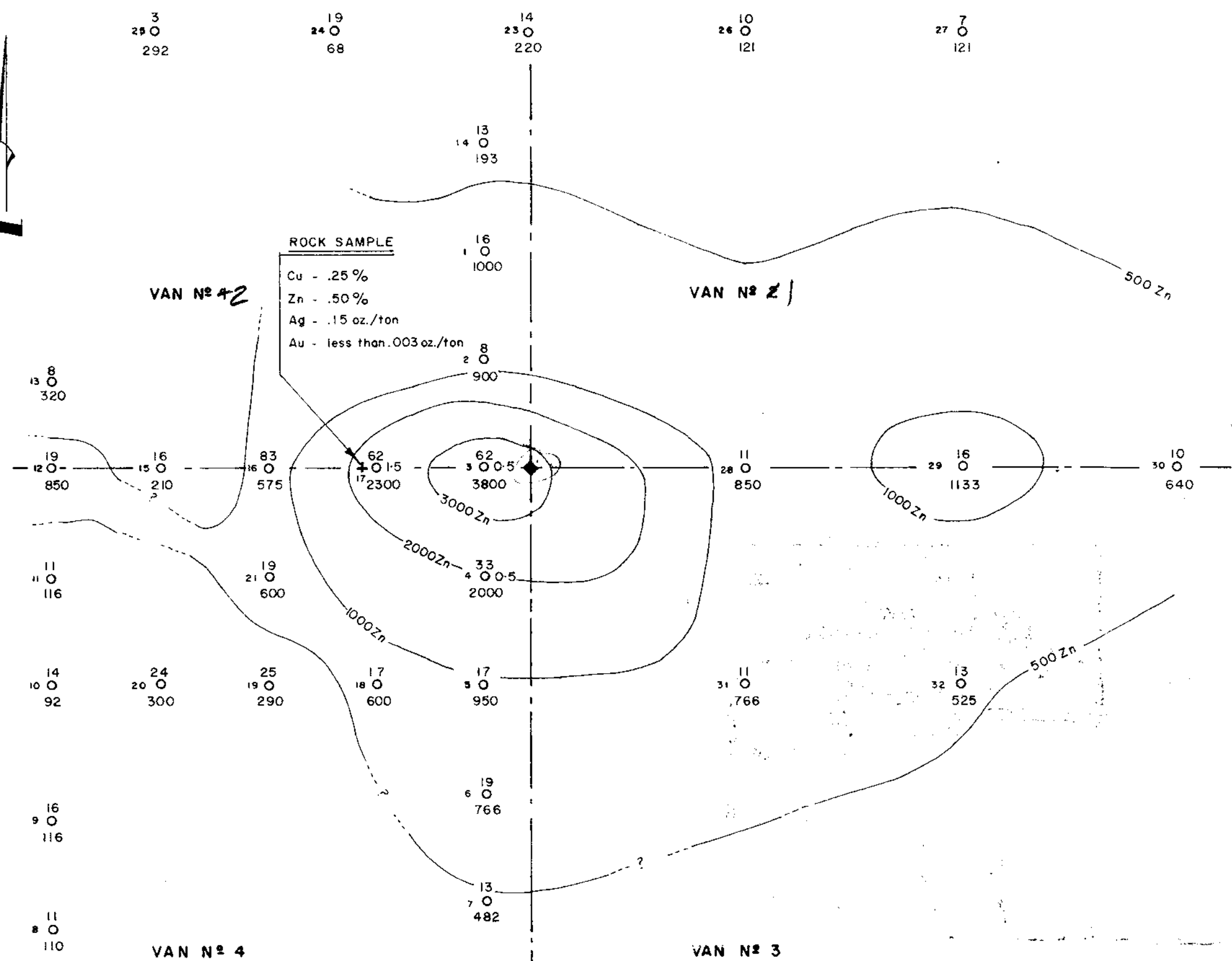
GRAND FORKS

B.C. CANADA
WASH. U.S.A.

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MAP #1

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CRONUS MINERALS LIMITED	
VAN GROUP	
BURRELL CREEK	B.C.
CLAIM MAP LOCATION MAP	
SCALE: 1" = 1/2 MI. & 1" = 4 MI	DATE: JUNE 1970



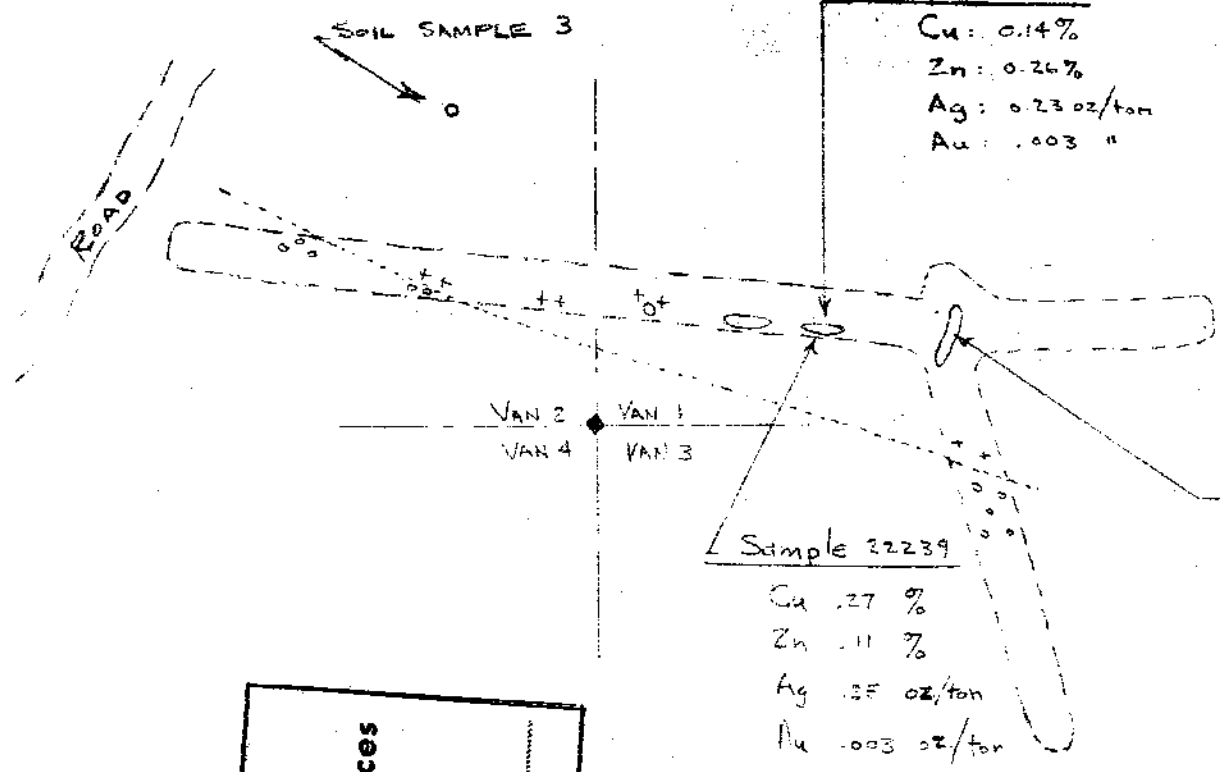
ROCK SAMPLE
 Cu - .25 %
 Zn - .50 %
 Ag - .15 oz./ton
 Au - less than .003 oz./ton

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 M-2

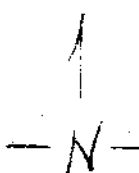
PPM COPPER
 25
 SAMPLE NUMBER 25 O 0.5 PPM SILVER
 25
 PPM ZINC

CRONUS MINERALS LIMITED	
VAN GROUP	
BURRILL CREEK	B.C.
GEOCHEMICAL SURVEY SOIL SAMPLES COPPER, ZINC, AND SILVER	
SCALE: 1" = 100'	DATE: JUNE 1970



LEGEND

- + + Altered greenish granodiorite
- o o Brown weathering feldspar porphyry dike



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CRONUS MINERALS LIMITED
VAN GROUP
BULLDOZER TRENCHES

SCALE: 1" = 40'
MARCH 1971