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CRANBROOK, B.C.  
MINING RECORDER

COMINCO LTD.

EXPLORATION DIVISION

WESTERN DISTRICT

REPORT ON GEOCHEMICAL SURVEY

GRID B

VINE CLAIM GROUP

Fort Steele Mining Division

82G/5

Submitted by:

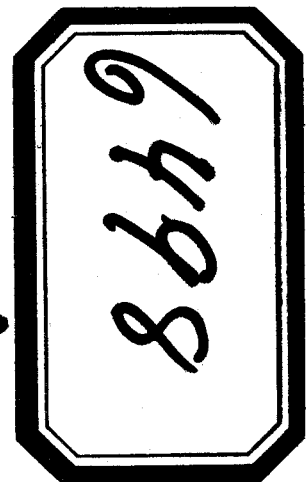
E.W. BATCHELOR

Cominco Ltd.  
Kootenay Exploration  
2450 Cranbrook Street  
Cranbrook, B.C.

Under the supervision of:

D.W. HEDDLE  
P. Eng.

PART 3 OF 5



COMINCO LTD.

EXPLORATION DIVISION

6498  
Part 3 of 5  
WESTERN DISTRICT

REPORT ON GEOCHEMICAL SURVEY

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VINE CLAIM GROUP

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1.00 SUMMARY

Grid "B" is centered approximately 8 km south of Cranbrook, B.C., and covers a portion of Vine claims 17, 18, 22. The survey was undertaken to explore for Cu/Pb/Zn deposits in the Aldridge Formation.

A total of 221 samples were collected from the "B" horizon of the soil profile and analyzed for Cu/Pb/Zn by atomic absorption. Background and threshold values were established by plotting cumulative frequency vs concentration in ppm on log probability paper.

The survey was completed during the period April 30th, 1977.

Total expenditures were \$4,411.02.

2.00 INTRODUCTION

2.10 Status of Ownership

Detailed soil geochemical Grid B covers a portion of Vine Claims 17, 18 and 22 which total 38 units. The Vine claims are 100% Cominco owned.

2.20 Location and Access

Grid B is centered approximately 8 km south of Cranbrook, B.C., and is reached via the Jap Lake-Peavine Creek road. Plate 1 is a location map of the claim group showing the boundaries of Grid B.

2.30 Topography and Vegetation

Relief in the grid area is moderate and elevation ranges from 3450 (1052m) to 3950 (1204m) feet above sea level. The majority of the area is covered by immature stands of lodgepole pine, fir and larch.

2.40 Objective

Grid "B" was sampled to follow-up moderately anomalous Pb and Zn values in soil samples from reconnaissance Grid "A". The property is being explored for Cu/Pb/Zn deposits in the Aldridge Fm. sediments.

3.00 GEOCHEMISTRY

3.10 Sampling Procedure

An 8000 ft. (2439m) baseline, azimuth 032<sup>0</sup>, was established and sample lines were spaced 500 ft. (152m) apart and the sample interval along lines was 250 ft. (76m).

Samples were collected with a grub hoe from the "B" soil horizon. The average depth of sample was 15 cm.

The sampling was completed during April 1977. A total of 221 samples were collected.

3.20 Sample Preparation and Analysis

Samples were dried at atmospheric temperature and then sieved through a -80 mesh nylon screen. The -80 mesh fraction was shipped to Cominco's Assay Lab in Kimberley for analysis.

Two grams of the -80 mesh fraction were digested in concentrated HCl and HNO<sub>3</sub> by heating on a hot plate. The sample was taken up in 10% HCl, bulked to 100 ml with distilled water, and analyzed by atomic absorption methods.

4.00 INTERPRETATION AND RESULTS

In order to determine background and threshold values for each element, commulative frequency vs concentration in ppm was plotted on log probability graph.

The graph for copper is straight line; indicating a single population of background values. The graphs for Pb and Zn show the following background and threshold values:


	Pb	Zn
Background	30	200
Threshold	125	450

Plates 2, 3 and 4 show the distribution of Cu, Pb and Zn in soils on Grid B.


SUBMITTED BY:

  
E.W. BATCHELOR

ENDORSED BY:

  
D.W. HEDDLE,  
P. Eng.  
Assistant Manager Exploration  
Western District

APPROVED BY:

  
G. HARDEN  
Manager, Exploration  
Western District

September 23, 1977

EXHIBIT "A"

Statement of Expenditures

Geochemical Survey - Vine Group - Grid B

Salaries:

G. McDonald, 16 man days @ \$35.00/day. . . . . \$ 560.00  
D. MacDonald, D. Byford, B. Fisher  
Establishing grid, sampling, sieving;  
44 man days @ \$25.83/day. . . . . 1,136.52

Domicile:

60 man days @ \$10/day. . . . . 600.00

Transportation:

16 man days @ \$32/day . . . . . 512.00

Materials:

Flagging, sample bags, etc. . . . . 150.00

Assays:

221 samples @ \$2.50/sample. . . . . 552.50

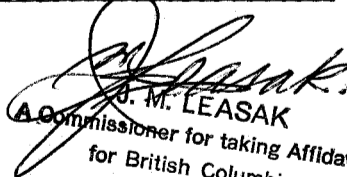
Supervision:

E.A.U. Parviainen, E.W. Batchelor  
Planning, supervision and reporting:  
6 man days @ \$150/day. . . . . 900.00

TOTAL EXPENDITURES . . . \$ 4,411.02

SIGNED:   
E.W. BATCHELOR

This is Exhibit "A" to the Statutory  
Declaration of E.W. Batchelor declared  
before me this 14th day of  
OCTOBER, 1977.

  
J. M. LEASAK  
A Commissioner for taking Affidavits  
for British Columbia.

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A GEOCHEMICAL PROGRAMME

CARRIED OUT ON THE VINE MINERAL CLAIMS (GRID B)

in the Fort Steele Mining Division of the  
Province of British Columbia

More Particularly N.T.S. 82G/5

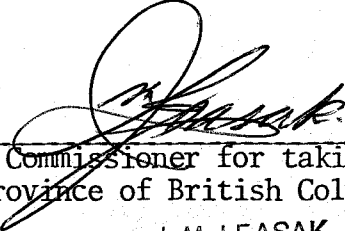
A F F I D A V I T

I, E.W. BATCHELOR, of the City of Cranbrook in the Province of  
British Columbia, make Oath and say:

1. That I am employed as a Geologist with Cominco Ltd.  
and as such, have a personal knowledge of the facts  
to which I hereinafter depose;
2. That annexed hereto and marked as Exhibit "A" to this  
my Affidavit is a true copy of expenditures incurred  
on a geochemical survey program, on the Vine Group of  
mineral claims.
3. That the said expenditures were incurred between the  
1st day of April, 1977 and the 30th day of April, 1977,  
for the purposes of mineral exploration on the above  
claims.

Sworn Before Me at CROWBROOK )  
in the Province of British Columbia, this )  
14th day of OCTOBER, 1977. )

  
E.W. BATCHELOR

  
A Commissioner for taking Affidavits in the )  
Province of British Columbia. )

J. M. LEASAK  
A Commissioner for taking Affidavits  
for British Columbia.

COMINCO LTD.


EXPLORATION DIVISION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

E.W. BATCHELOR graduated from U.B.C. during 1966 with a B.A.Sc degree in Geological Engineering.

Since that time he has been employed in various phases of base metal exploration.

  
D.W. HEDDLE, P. Eng.  
Assistant Manager, Exploration  
Western District

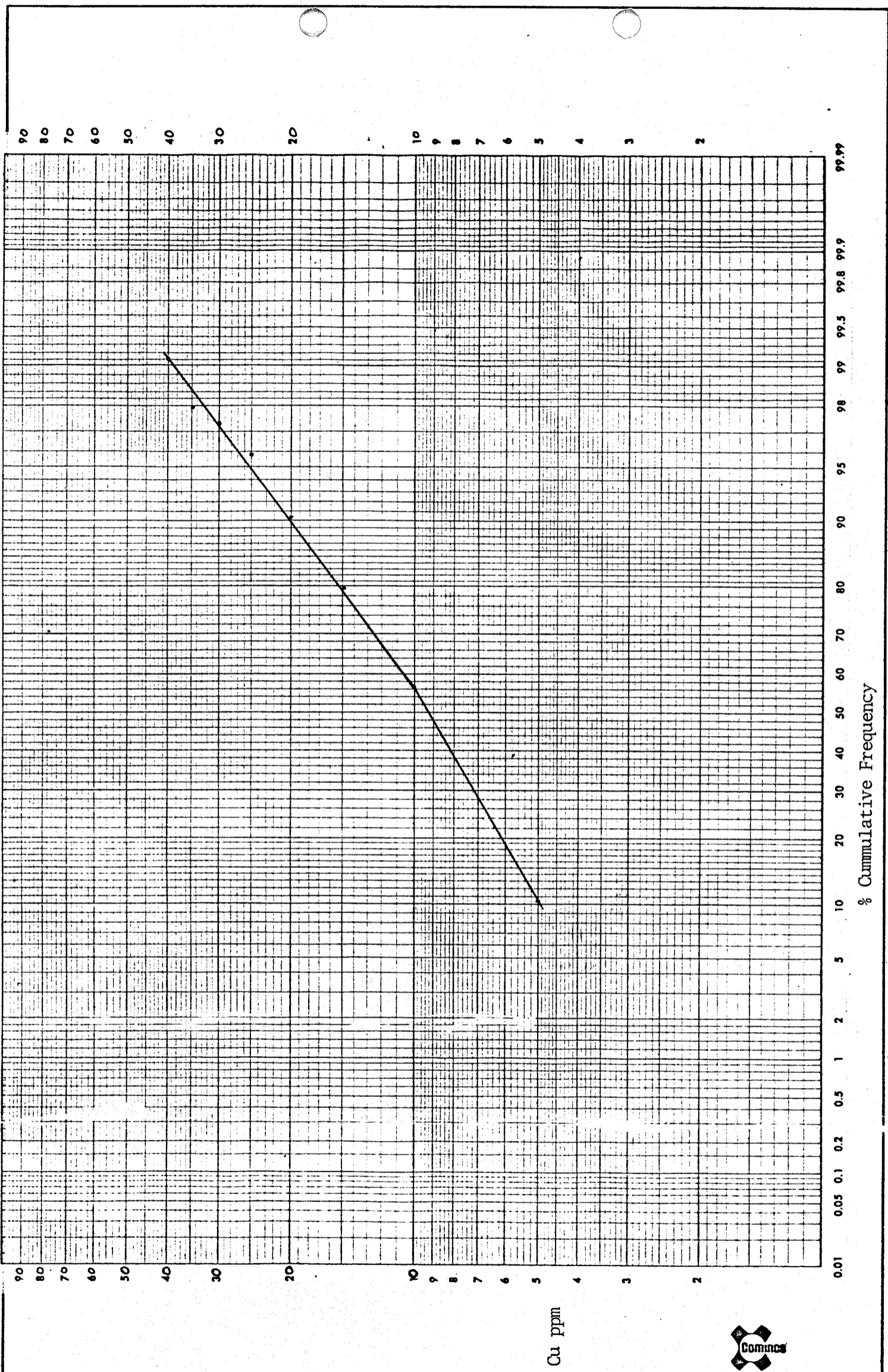


FIGURE 1

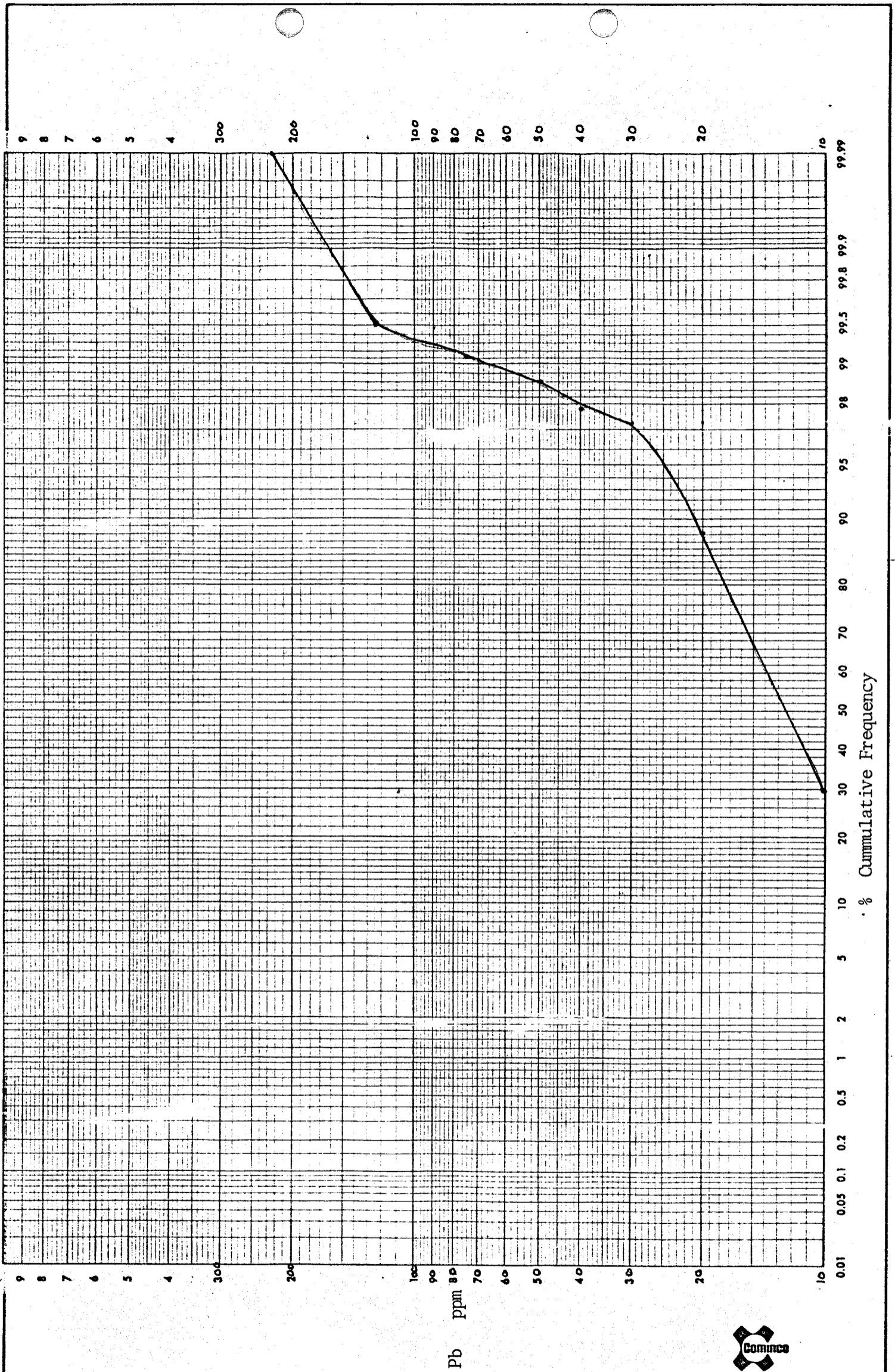
Cu - Cumulative Frequency Distribution

VINE PROPERTY - GRID "B" 82G/5

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

Scale: \_\_\_\_\_ Date: Sept. 23, 1977 Plate: \_\_\_\_\_





Pb



Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

FIGURE 2

Pb - Cumulative Frequency Distribution  
VINE PROPERTY - GRID "B"

Scale: \_\_\_\_\_ Date: Sept. 23, 1977 Plate: \_\_\_\_\_

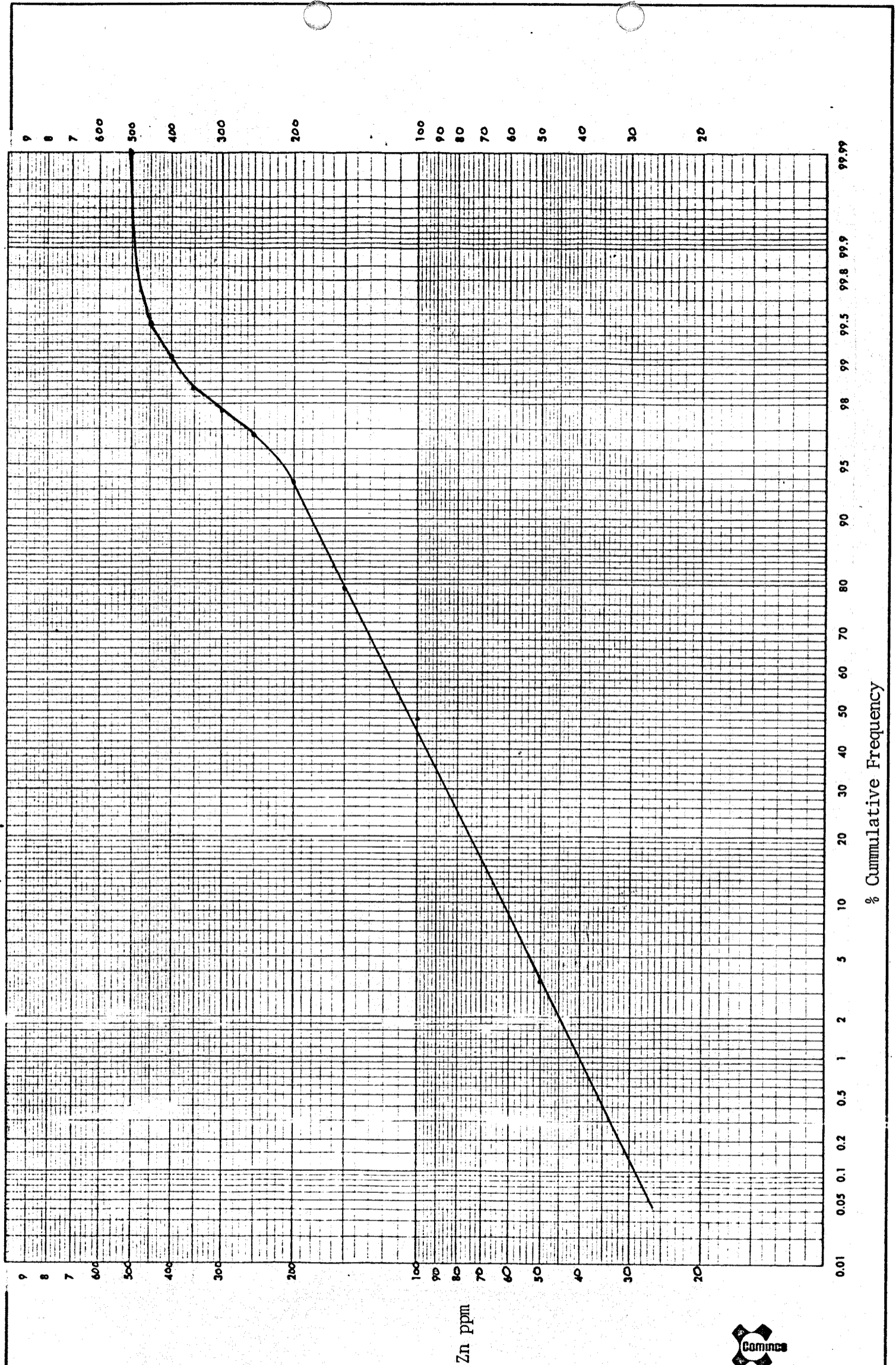
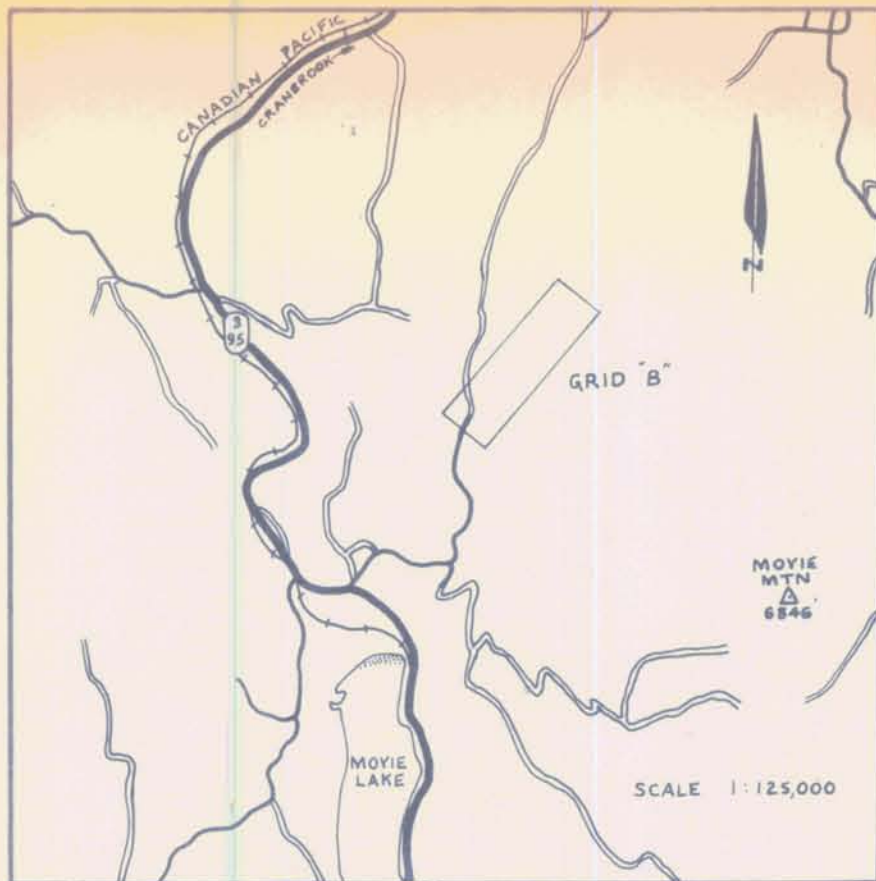


FIGURE 3

Zn - Cumulative Frequency Distribution  
VINE PROPERTY - GRID "B"

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

Scale: \_\_\_\_\_ Date: Sept. 23, 1977 Plate: \_\_\_\_\_



6498  
Part 3  
of 5

GRID "B" VINE 17, 18, 22 LEAD



Drawn by GMM Traced by

Revised by Date

JMF 19 SEPT 77

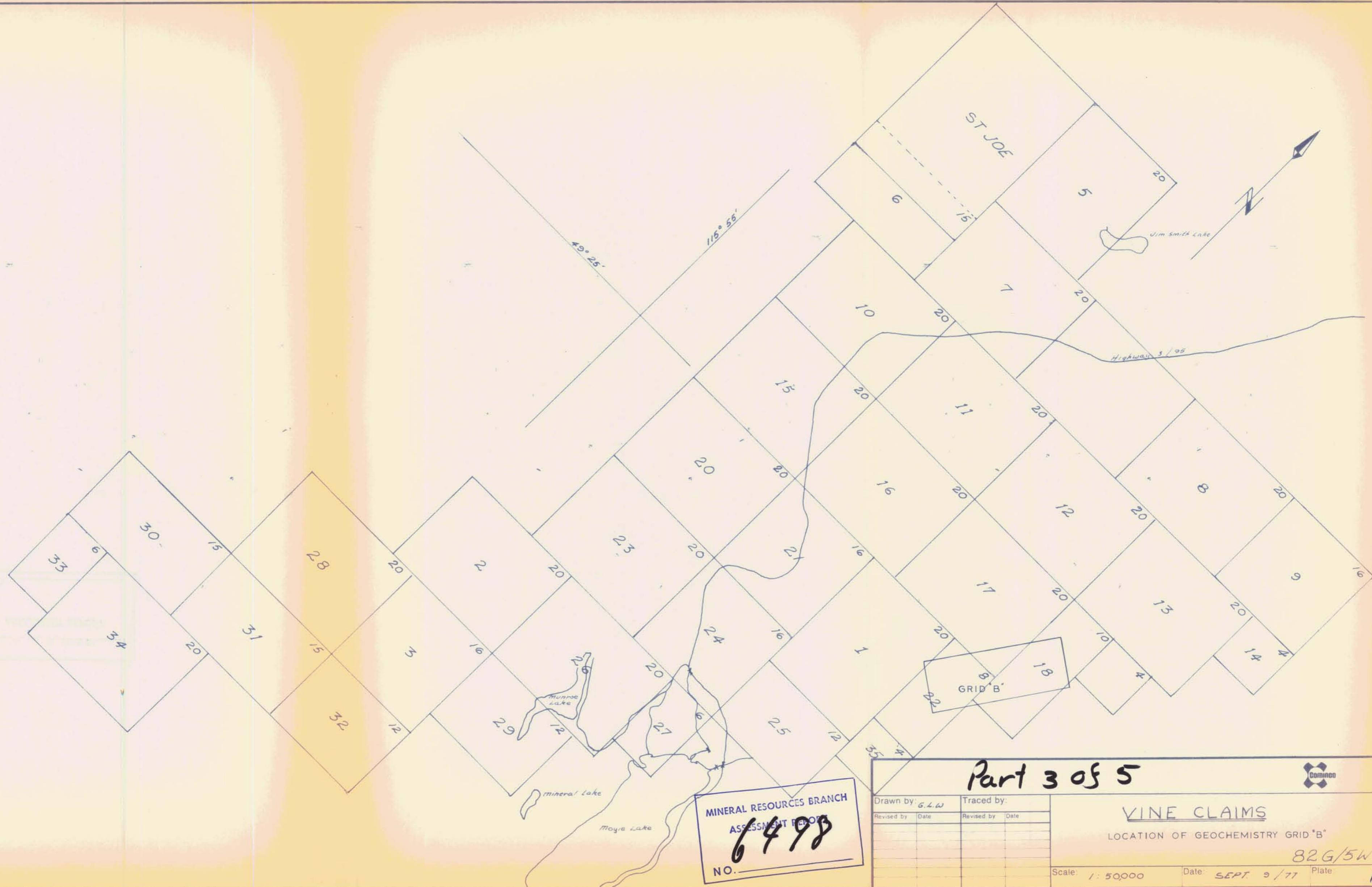
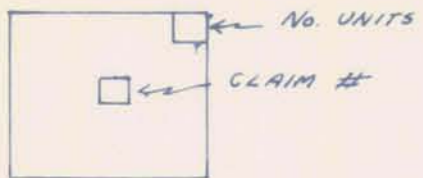
VINE SOIL GEOCHEMICAL  
SURVEY. "B" HORIZON

82G/5

Scale 1" = 1000'

Date APRIL 15, 1977

Plate V-3-77



8941

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**6498**  
 NO. \_\_\_\_\_

<b>Part 3 of 5</b>				
<b>VINE CLAIMS</b>		LOCATION OF GEOCHEMISTRY GRID "B"		
82G/5W				
Drawn by: G.L.W.	Traced by:	Scale: 1:50,000	Date: SEPT 9/77	Plate: 1
Revised by: _____	Date: _____	Revised by: _____	Date: _____	