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CRANBROOK, B.C.
MINING RECORDER

COMINCO LTD.

EXPLORATION DIVISION

WESTERN DISTRICT

REPORT ON GEOCHEMICAL SURVEY
ON VINE 3 CLAIM
Fort Steele Mining Division
82G/5

Submitted by:

G.L. WEBBER

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

Under the supervision of:

D.W. HEDDLE
P. Eng.

PART 5 of 5

6498

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of 5

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TABLE OF CONTENTS

	PAGE
1.00 GENERAL STATEMENT.	1
2.00 INTRODUCTION	1
2.10 Status of Ownership	1
2.20 Location and Access	1
2.30 Topography and Vegetation	1
3.00 GEOCHEMISTRY	1
3.10 Sampling Procedure.	1
3.20 Sampling Preparation and Analysis . .	2
4.00 INTERPRETATION AND RESULTS	2
EXHIBIT "A"	
AFFIDAVIT	
STATEMENT OF QUALIFICATIONS	

COMINCO LTD.

EXPLORATION DIVISION

WESTERN DISTRICT

1.00 GENERAL STATEMENT

This report describes a detailed geochemical survey and expenditures on the Vine 3 claim (16 units) recorded on the 26th day of October, 1976. The soil survey was undertaken to explore for Cu/Pb/Zn deposits in the Aldridge Formation.

This survey was conducted between October 28th, 1976 and November 30th, 1976. A total of 227 soil samples were collected and analyzed by atomic absorption for ppm Cu, Pb and Zn.

Total expenditures for this soil geochemical program were \$4,267.00. It is requested that one year assessment credits be applied to 40 units of the Vine Group, consisting of Vine 3, 29 and 32.

Affidavits on Application for Certificate of Work will be filed with the Mining Recorder in Cranbrook, B.C., along with this report.

2.00 INTRODUCTION

2.10 Status of Ownership

All Vine Claims are 100% Cominco owned.

2.20 Location and Access

Vine 2 and 3 claims are located approximately 1.5 km west of Munroe Lake and 16 km SSW of Cranbrook, B.C. Access is via Highway 3/95 and gravel road. Plate 1 is a location map showing survey grid relative to claim boundaries.

N.T.S. 82G/5
Long: 115° 53'

Mining Division: Fort Steele
Lat: 49° 22'

2.30 Topography and Vegetation

Vine 2 and 3 claim covers an area of moderate relief ranging in elevation from 1100 to 1280 m. Relief within the survey area is approximately 70 meters.

The area is covered mainly by second growth lodgepole pine, Douglas fir and low bush.

3.00 GEOCHEMISTRY

3.10 Sampling Procedure

A detailed soil geochemistry survey was conducted over an area of 800 m by 600 m. A baseline, with azimuth 045° was cut and flagged, sample lines were established at 100 m intervals along the baseline. Sample lines extended 300 meters to the NW and to the SE, from the baseline. Sample interval along the lines was 25 meters. Samples were collected from the "B" horizon of the soil profile using a grub hoe and were stored in wet strength kraft bags.

3.20 Sample Preparation and Analysis

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

Two grams of soil sieved to -80 mesh size, was weighed in a 250 ml beaker, 20 ml of HCl (conc.) was added and the samples digested on a hot plate for approximately 20 minutes. HNO₃ (conc.) added until sample was completely oxidized. Sample was taken up in 10% HCl, bulked to 100 ml and aspirated directly into the atomic absorption instrument. Blank determinations were used for background readings.

4.00 INTERPRETATION AND RESULTS

Plates 2, 3 and 4 are contoured maps for Cu, Pb and Zn in ppm, from soils collected from Fors Grid (now Vine claims).

Figures 1, 2 and 3 are graphs of percent cumulative frequency vs. metal concentration plotted on log probability paper. The background and threshold values determined for each element are:

	Cu	Pb	Zn
Background (ppm)	25	50	100
Threshold (ppm)	35	150	250

Figures 1, 2 and 3 graphs of Cu/Pb/Zn all have a straight line between two inflection points, indicating a single population. The background and threshold values were taken from the inflection points on all three graphs.

The few erratic high values of Pb/Zn obtained are thought to reflect small quartz veins containing low grade galena and sphalerite.

No interpretation of this survey can be made with confidence until a study of the geology, till fabrics and glacial transport directions are completed.

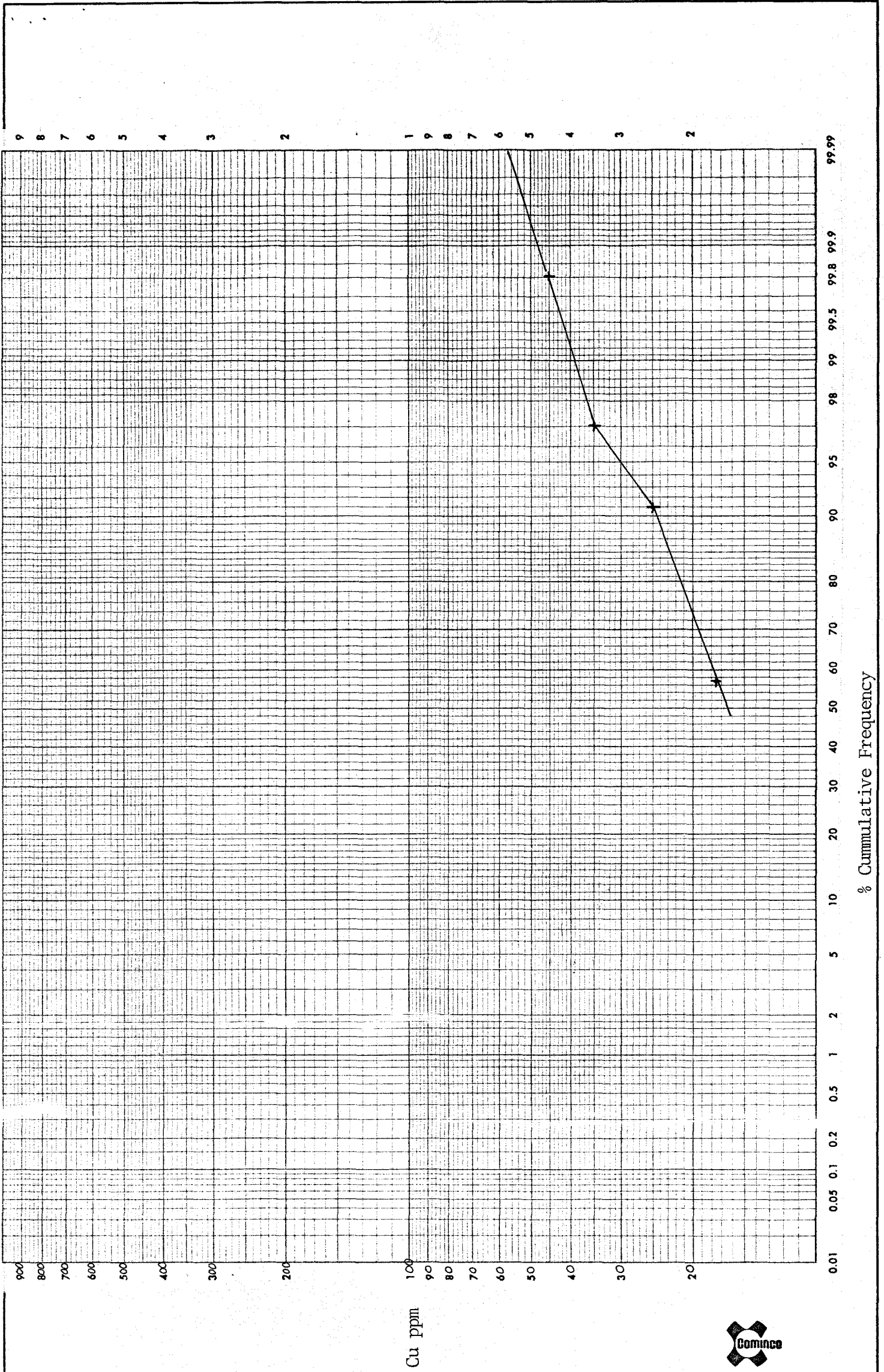
SUBMITTED BY: G.L. Webber
G.L. WEBBER

ENDORSED BY: D.W. Heddle
D.W. HEDDLE, P. Eng.,
Assistant Manager,
Exploration,
Western District

APPROVED FOR
RELEASE BY: G. Harden
G. HARDEN, Manager,
Exploration,
Western District

Sept. 29, 1977

cc: Mining Recorder
Vancouver

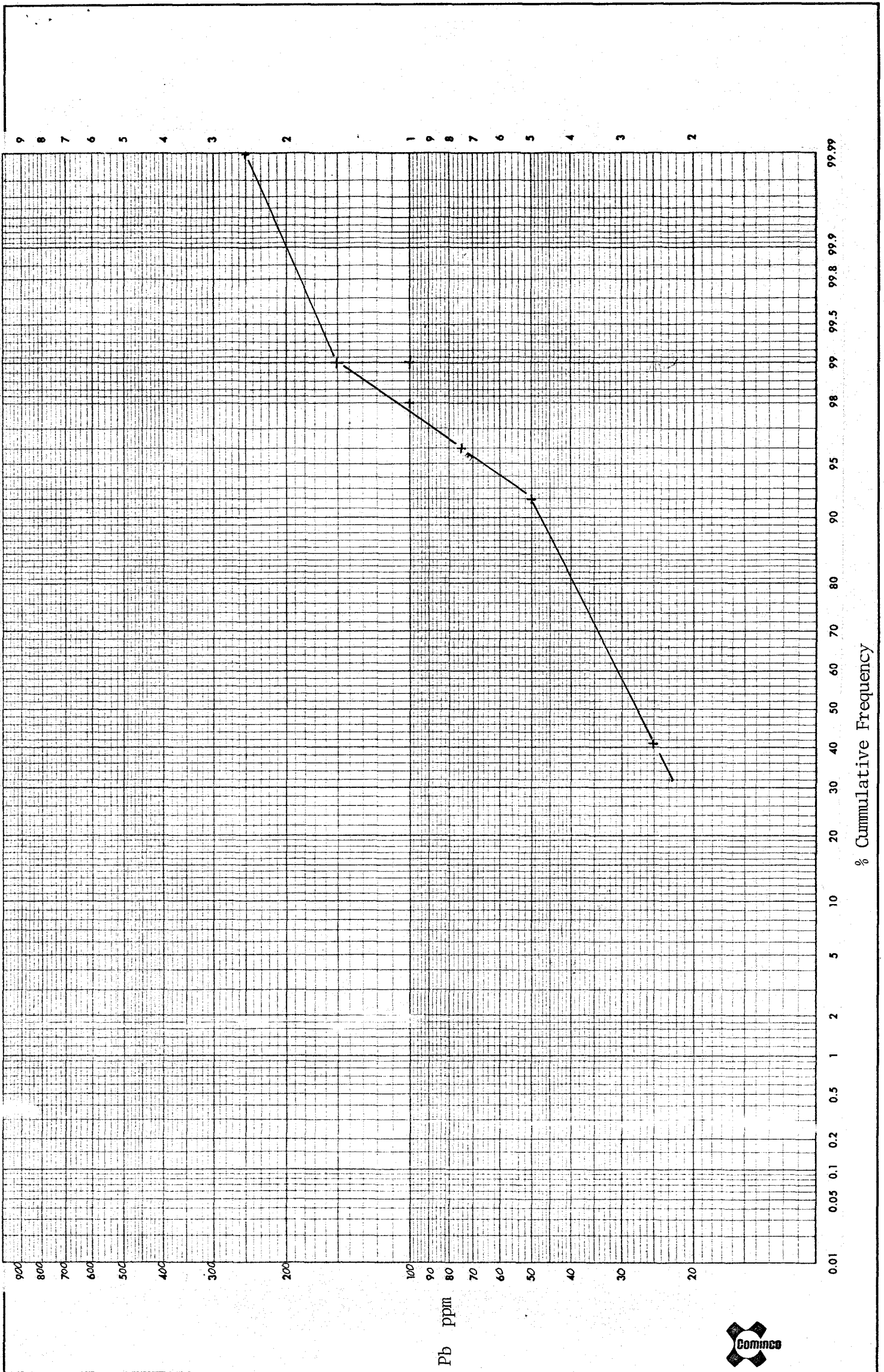


Drawn by: <i>ghw</i>		Traced by:	
Revised by	Date	Revised by	Date

FIGURE 1
Cu - Cumulative Frequency Distribution
VINE PROPERTY (Fors Grid)

82G/5

Scale: _____ Date: .Sept. 28, 1977 Plate: _____

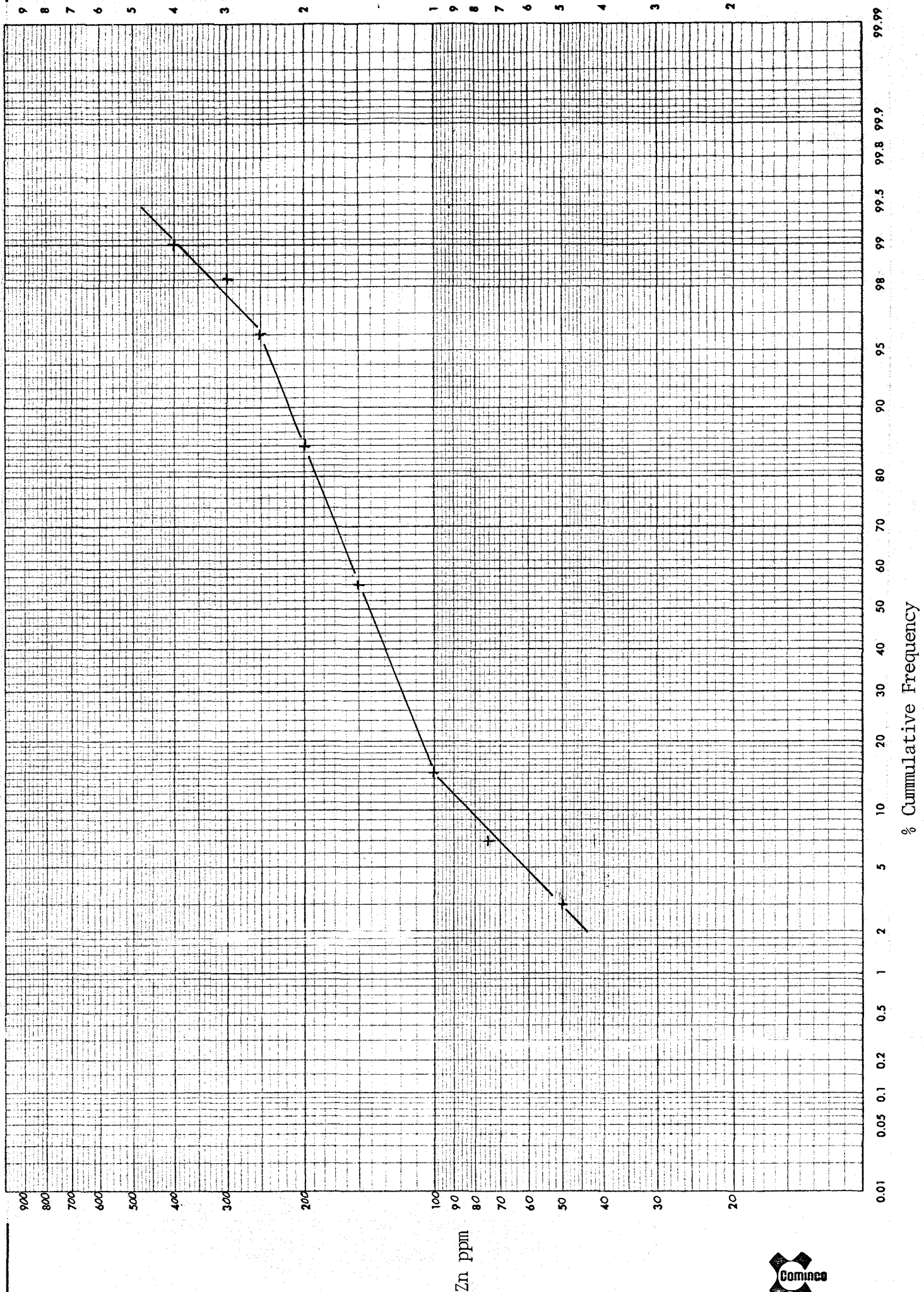


Drawn by: <i>OKW</i>		Traced by:	
Revised by	Date	Revised by	Date

FIGURE 2
 Pb. - Cumulative Frequency Distribution
 VINE PROPERTY (Fors Grid)

82G/5

Scale: _____ Date: Sept. 28, 1977 Plate: _____



Drawn by: <i>CLW</i>		Traced by:	
Revised by	Date	Revised by	Date

FIGURE 3
 Zn - Cumulative Frequency Distribution
 VINE PROPERTY (Fors Grid)

82G/5

Scale: _____ Date: Sept. 28, 1977 Plate: _____

EXHIBIT "A"

Statement of Expenditures

Fors Geochemical Grid
(Now Vine Claims)

Fort Steele Mining Division

Geochemical Soil Survey

As a result of this geochemical soil survey, on the Vine Claims, the following expenditures were incurred by Cominco Ltd.

Salaries:

R.L. Hauser (Geologist) 20 days @ \$63/day Oct. 28 to Nov. 30th, 1976.	\$ 1,260.00
R.J. Shanks and N. Kaniak (Assts.) 20 days @ \$40/day Oct. 28th to Nov. 30th, 1976.	800.00
E.A.U. Parviainen (Geologist) Supervision 2 days @ \$150/day.	300.00
G.L. Webber (Geologist) Report writing and map preparation: 3 days @ \$100/day.	300.00

Domicile:

40 man days @ \$10/day.	400.00
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Transportation:

20 days rental of 4 x 4 @ \$32/day.	640.00
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Assays:

227 samples for Cu/Pb/Zn @ \$2.50/sample . .	<u>567.00</u>
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TOTAL EXPENDITURE.	\$ 4,267.00
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G.L. WEBBER

This is Exhibit "A" to the Statutory Declaration of G.L. WEBBER, 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 NO. 3 MINERAL CLAIM

WEST OF MUNROE LAKE

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, G.L. WEBBER, of the City of Kimberley in the Province of British Columbia, make Oath and say:

1. That I am employed as a Geologist by 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 soil geochemical program, on the Mineral Claim Vine 3.
3. That the said expenditures were incurred between the 28th day of October and the 30th day of November, 1976, for the purpose of mineral exploration on the above noted claim.

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

G.L. Webber.
G.L. WEBBER

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

COMINCO LTD.


EXPLORATION DIVISION

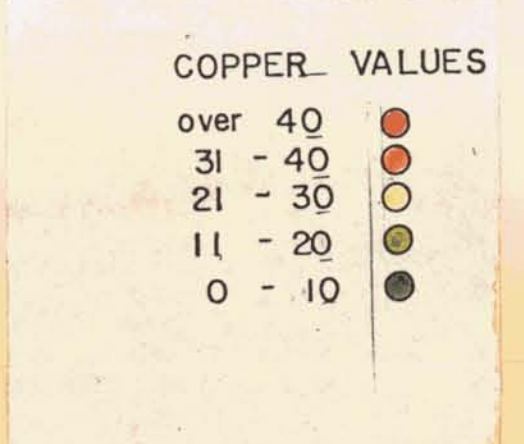
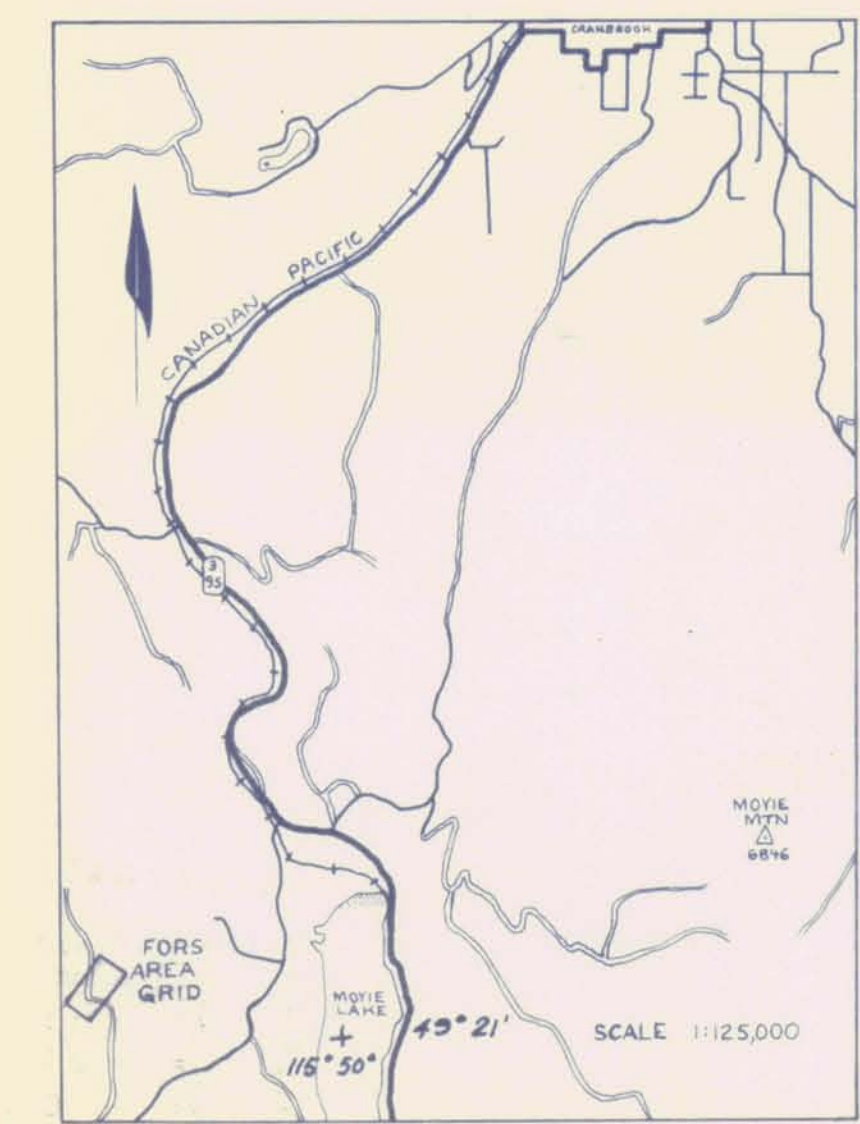
WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

G.L. WEBBER, has been involved in various types of mineral exploration work for Cominco Ltd. over the last twenty-five years.

I consider him well qualified to carry out the reporting on all phases of geological exploration work.


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



Pb Zn Cu
23 145 12 ○ Values in ppm.

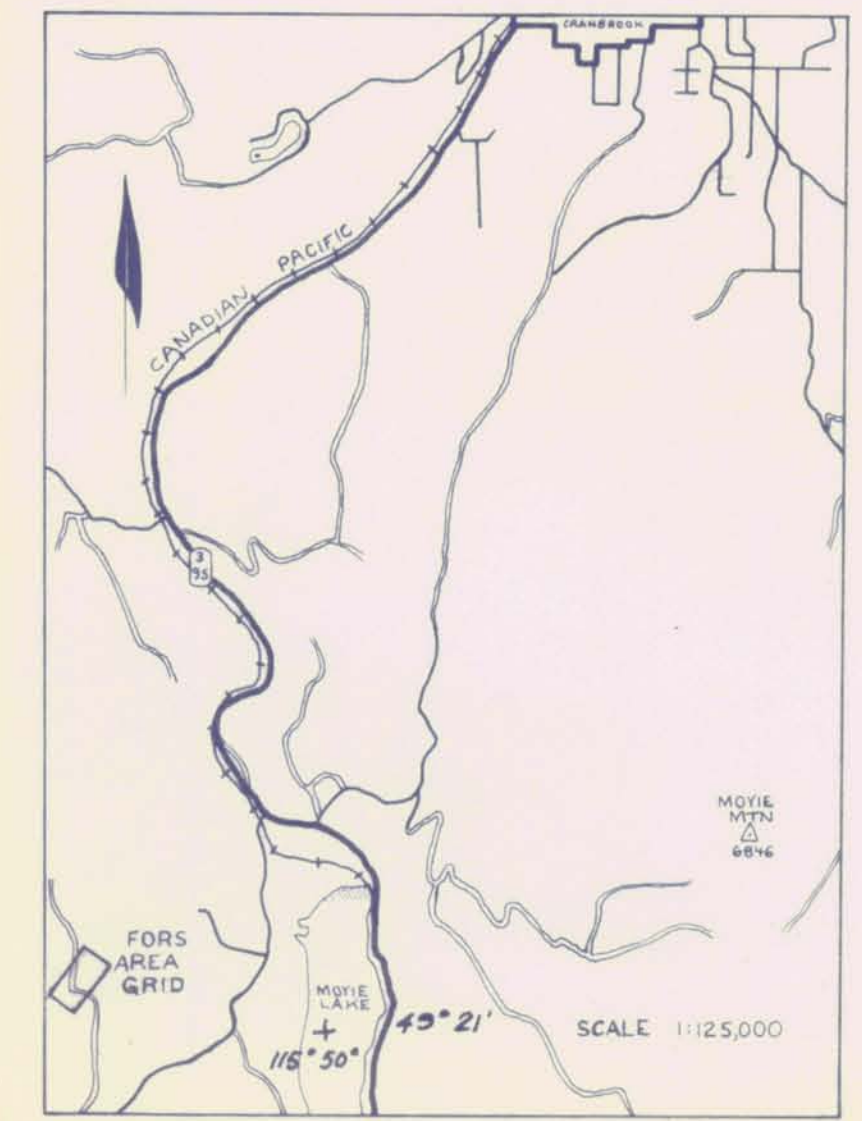
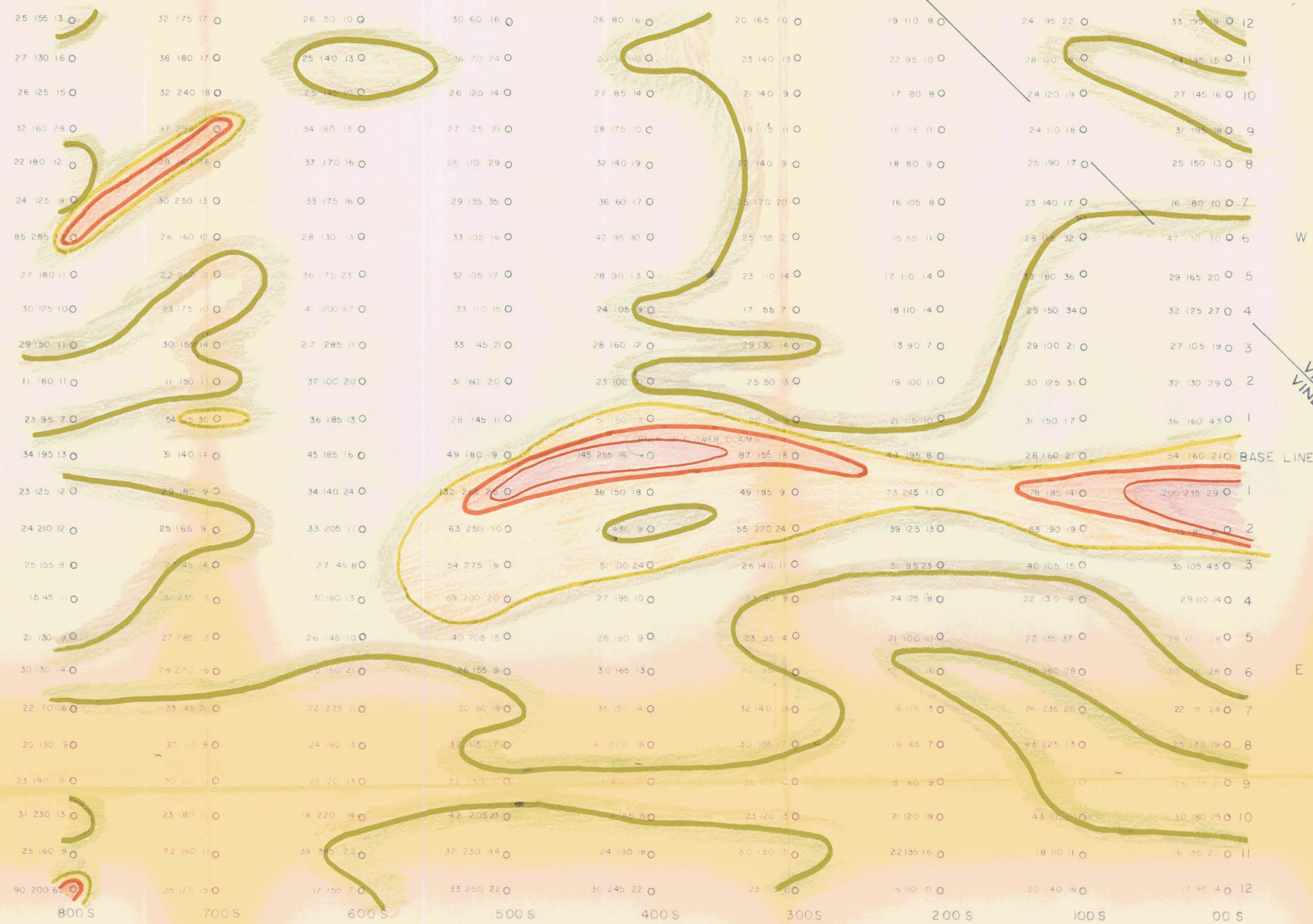
SCALE 1:2000 OR 1 cm TO 20 m



82G/5

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. **6498**
Part 5 of 5

VINE NO. 3 COPPER		VINE DETAILED SOIL GEOCHEMISTRY GRID FORS AREA	
Drawn by: RJS	Traced by:	Scale: 1:2000	Date: NOV 15 1976
Revised by: RLH	Revised by:	1 cm = 20 m	Plate: 2-3-4
Revised by: JMF	Revised by:		
Date: 19 SEPT 77	Date:		



LEAD VALUES

over 100	●
76 - 100	●
51 - 75	●
26 - 50	●
0 - 25	●

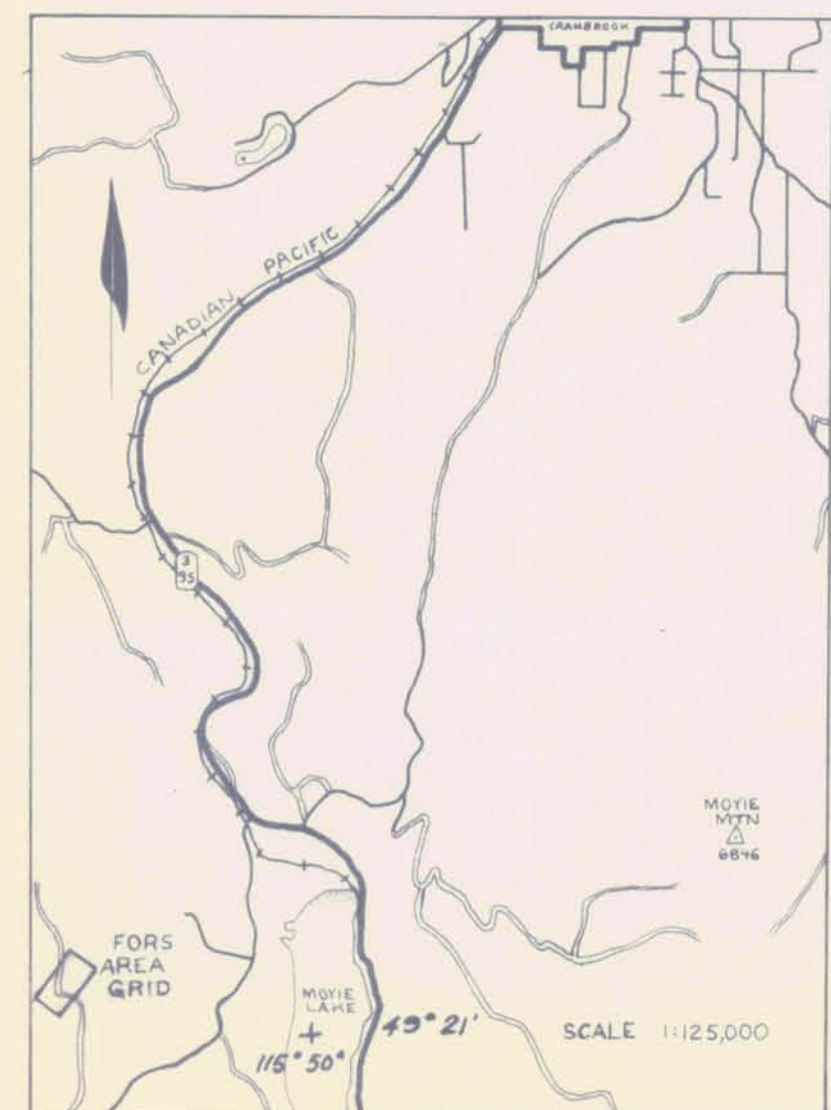
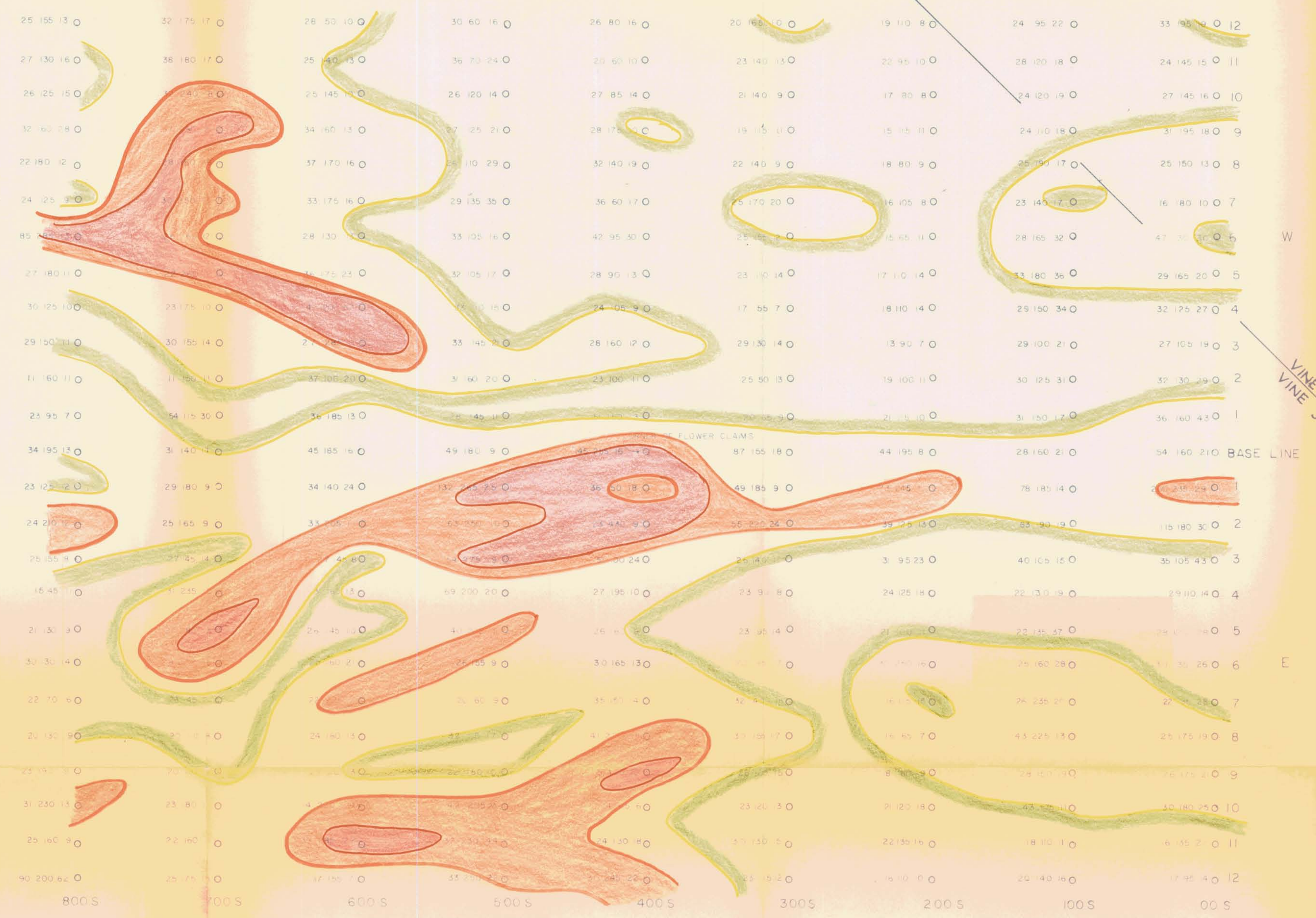
Pb Zn Cu
23 145 12 ○ Values in ppm.



89PJ

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. **6498**
Part 5 of 5

VINE NO. 3 LEAD		
Drawn by: RJS Revised by: MF Date: 19 SEPT 77	Traced by: Revised by:	



Pb Zn Cu
23 145 12 0 Values in ppm

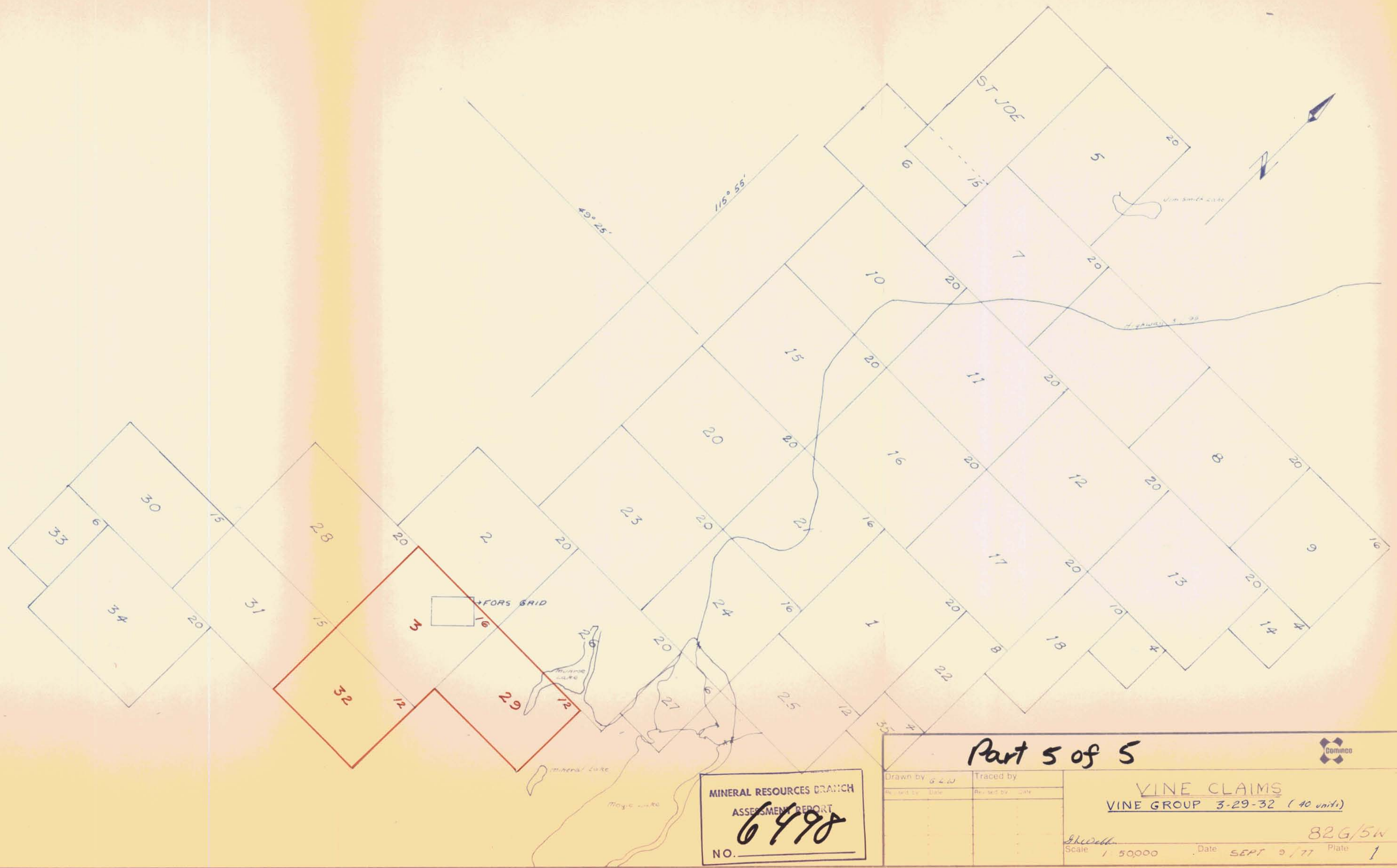
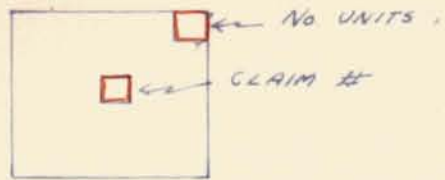
SCALE 1:2000 OR 1 CM TO 20 M



BPVJ

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. **6498**
Part 5 of 5

VINE NO. 3 ZINC		VINE DETAILED SOIL GEOCHEMISTRY GRID FORSA AREA	
Drawn by: RJS	Traced by:	Scale: 1:2000	Date: NOV 15 1976
Revised by: RLH	Revised by:	1 cm = 20 m	Plate: 2-3-4
Revised by: JMF	Revised by:		
19 SEPT 77			



MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
6498
 NO. _____

Part 5 of 5				
Drawn by	GZW	Traced by		VINE CLAIMS VINE GROUP 3-29-32 (40 units)
Revised by		Revised by		
Date		Date		82G/5W
Scale 1:50,000		Date SEPT 9/77		Plate 1