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16 p	
FILE NO: 87-831-16498	

11/88

ASSESSMENT REPORT  
GEOCHEMICAL SURVEY  
ON  
TARA MINERAL CLAIMS  
VERNON M.D.  
NTS 82L/4E

50° - 00' - 06" 119° - 37' - 36" W

OWNER/OPERATOR: PERCY F. COX

BY

A.D. WILMOT, P.Eng.

Kelowna, B.C.

November 19, 1987

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**16,498**

TABLE OF CONTENTS

Introduction.....Page 1  
Location & Access.....Page 1  
Property & Ownership.....Page 1  
History.....Page 1  
Summary of Work Done.....Page 1  
Geochemical Survey.....Page 1  
    (i) Field Procedure.....Page 1  
    (ii) Soil.....Page 1  
    (iii) Method of Geochemical Analysis.....Page 2  
    (iv) Interpretation of results.....Page 2  
    (v) Conclusions.....Page 2  
Statement of Expenditures.....Page 3  
Certificate of A. D. Wilmot P. Eng.....Page 4

Appendix

ANALYTICAL RESULT CERTIFICATES.  
Graphical Representation of Geochemical Data  
    Location Map.....Plate 1  
    Claim Map.....Plate 2  
    Geochemical Survey TARA M.C.s.....Plate 3 (in pocket)

## INTRODUCTION

This report is a record of a Geochemical survey for copper & silver conducted over parts of M.C.s. TARA 5 and 6 during October 14, 15 and 16, 1987.

### Location and Access

The property is located at 50-00 north latitude and 119-43 west longitude, on the west side of Okanagan Lake 30 km by road from Kelowna. From the westside road access is by the Bear Creek logging road for 16 km.

### Property and Ownership

The property consists of eight contiguous mineral claims of 6 units each as listed below. The recorded owner is Percy F. Cox of Box 694, Kamloops, B.C. V2C 5L7.

Claim Name	No. of Units	Record No.	Record Date
TARA 3	6	2207	Dec. 4/86
TARA 4	6	2209	Dec. 4/86
TARA 5	6	2209	Dec. 4/86
TARA 6	6	2210	Dec. 4/86
TARA 7	6	2211	Dec. 4/86
TARA 8	6	2212	Dec. 4/86
TARA 9	6	2213	Dec. 4/86
TARA 10	6	2214	Dec. 4/86

### History

The claims were staked in December 1986 for location as the adjoin the Zumor property, which at that time was being explored by diamond drilling. No mineral deposits are known to occur on the TARA claims.

### Summary of Work Done

136 soil samples were taken on a grid of 50 m line spacing and 25 m station intervals this grid was an extension of the on the Zumar claims and covered parts of M.C.s. TARA 5 & 6. Three men were employed on the survey which was conducted from the 14th to the 16th of October 1987.

### Geochemical Survey

#### (i) Field Procedure

The samples which averaged about three quarters of a pound, were taken from the "B" horizon at a depth of about 20 cm. They were then placed in heavy duty kraft envelopes and dried before shipment to the Kamloops Research & Assay laboratory Ltd. for analysis.

#### (ii) Soil

The soil is a glacial drift with a thin to moderate alluvial horizon. The 'B' horizon is located from 10 cm to 50 cm below the surface and is buff to light grey in colour. The entire area covered by the survey is drift covered.

### (iii) Method of Geochemical Analysis

On arrival at the assay office the samples are further dried in a drying oven and then screened through a 80 mesh sieve. The minus fraction is reserved for the analysis as follows:

Weigh a 1 gm sample into a test tube. Add 0.5 ml of nitric acid. Place in a hot water bath for 30 minutes. Add 1.5 ml of hydrochloric acid and leave in the hot water bath for another 90 minutes. Bulk to 10 ml with distilled water. Mix thoroughly and read on A.A.

### (iv) Interpretation of Results

As the 136 soil samples taken in the TARA survey were considered insufficient to determine a representative background & threshold value for copper and silver the figures used were those obtained in an extensive survey, 1476 soil samples, taken over the adjoining Zumar 2 and 4 mineral claims. The surveys on the Zumar & Tara claims were conducted by the same geophysical crew. The geochemical results of the survey were plotted and contoured above the threshold values. The background and threshold values were calculated by a simplified statistic approach. The method of constructing the graph is patterned after Claude Lepeltier's method and is described below.

1. Select a precise set of geochemical data
2. Group the values in classes
3. Calculate the frequency of occurrence in each class
4. Calculate the cumulative frequencies of each class
5. Plot the cumulative frequencies of each class in percent against the lower limits of each class on log probability paper.
6. Read background at 50% ; threshold at 2.5% or at breaks in the graph.

### (v) Conclusions

Low profile copper anomalies ranging from the threshold value of 24 P.P.M. to 48 P.P.M. occur on Mineral Claim TARA 5. These anomalies are considered to be down hill migrations of the higher anomalies located on Zumar 4, just north of the TARA boundary. No significant silver values were obtained from any of the samples. While the results of this survey are considered to be negative it covered only a very small fraction of the area enclosed by the 48 units of the TARA group. Surface prospecting of the claims is recommended prior to any further work.

Statement of Expenditures

Wages

Name	Category	Rate	Days worked	Amount
P. Cox	Geophysicist	125.00	Oct 14,15,16	375.00
W. Shepherd	Helper	100.00	Oct 14,15,16	300.00
M. Ciancone	Helper	100.00	Oct 14,15,16	300.00
			TOTAL WAGES	<u>975.00</u>

Board and Room P. Cox	195.00
Car Rental	225.00
Assaying - 136 samples @ 3.50	476.00
Equipment - bags, ribbon, tags	50.00
Supervision & Report - A.D. Wilmot P.Eng.	400.00
Typing & Reproduction	<u>100.00</u>
TOTAL	\$2421.00

CERTIFICATE


I, Ashley D. Wilmot of Kelowna, B.C.

certify that

I graduated from Queen's University in 1936,  
with a Bachelor of Science Degree in Mining  
Engineering.

I am a life member of the B.C. Professional  
Engineers, the Canadian Institute of Mining  
& Metallurgy and the B.C. & Yukon Chamber of  
Mines.

I am the author of this report and I  
supervised the work therein described.

  
A.D. Wilmot, P.Eng.

Kelowna, B.C.  
August 15th, 1987

KAMLOOPS RESEARCH  
&  
ASSAY LABORATORY  
LTD.

B.C. CERTIFIED ASSAYERS

912 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5  
PHONE 372-2784 - TELEX 048-8320 - FAX 372 1112

GEOCHEMICAL LAB REPORT

MR. MARIO CIANCONNE  
BOX 1466 STATION A  
KELOWNA, B.C.  
VIY 7V8

DATE OCTOBER 30, 1987

FILE NO. G 1836

PAGE 1 / 4

KRAL NO.	IDENTIFICATION	AG	CU
1	10S 5+75E	0.2	31.0
2	10+25S 5+75E	0.0	21.0
3	10+25S 6E	0.0	30.0
4	10+50S 6E	0.0	19.0
5	10S 6+50E	0.0	25.0
6	10+25S	0.0	30.0
7	10+50S 6+50E	0.3	39.0
8	10+25S 7E	0.1	20.0
9	10+50S	0.0	15.0
10	10+75S 7E	0.0	8.0
11	10S 7+50E	0.0	22.0
12	10+25S	0.0	13.0
13	10+50S	0.0	12.0
14	10+75S	0.0	14.0
15	11S 7+50E	0.1	50.0
16	10+25S 8E	0.0	35.0
17	10+50S	0.0	29.0
18	10+75S	0.0	29.0
19	11S	0.1	35.0
20	11+25S 8E	0.0	29.0
21	11+50S 8+25E	0.1	24.0
22	10+25S 8+50E	0.1	32.0
23	10+50S	0.0	27.0
24	10+75S	0.2	56.0
25	11S	0.1	28.0
26	11+25S	0.1	30.0
27	11+50S 8+50E	0.0	19.0
28	10S 9E	0.0	48.0
29	10+25S	0.0	38.0
30	10+50S 9E	0.0	17.0

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PAGE 2 / 4

KRAL NO.	IDENTIFICATION	AG	CU
31	10+75S 9E	0.0	39.0
32	11S	0.0	24.0
33	11+25S	0.0	20.0
34	11+50S 9E	0.0	22.0
35	10S 9+50E	0.1	28.0
36	10+25S	0.0	30.0
37	10+50S	0.2	34.0
38	10+75S	0.0	40.0
39	11S	0.0	22.0
40	11+25S	0.0	29.0
41	11+50S O/C	0.1	36.0
42	11+75S 9+50E	0.0	18.0
43	10+25S 10E	0.0	33.0
44	10+50S	0.0	22.0
45	10+75S	0.0	22.0
46	11S	0.1	15.0
47	11+25S	0.1	24.0
48	11+50S	0.0	18.0
49	11+75S	0.0	12.0
50	12S	0.0	13.0
51	12+25S 10E	0.0	14.0
52	10S 8+50E	0.0	30.0
53	12+50S 10+40E	0.0	16.0
54	10S 10+50E	0.0	17.0
55	10+25S	0.0	30.0
56	10+50S	0.1	26.0
57	10+75S	0.0	14.0
58	11S 10S	0.0	19.0
59	11+25S 10+50E	0.2	33.0
60	11+50S	0.0	44.0
61	11+75S	0.1	20.0
62	12+00S	0.1	19.0
63	12+25S 10+50E	0.0	23.0
64	10+25S 11E	0.0	18.0
65	10+50S	0.0	22.0
66	10+75S	0.0	23.0
67	11S 11E	0.0	18.0
68	11+25S	0.0	20.0
69	11+50S	0.0	16.0
70	11+75S 11E	0.0	20.0



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FILE NO. G 1836

PAGE 3 / 4

KRAL NO.	IDENTIFICATION	AG	CU
71	12S 11E	0.0	29.0
72	12+25S	0.0	15.0
73	12+50S 11E	0.0	19.0
74	10S 11+50E	0.0	22.0
75	10+25S	0.0	11.0
76	10+50S	0.0	16.0
77	10+75S	0.0	23.0
78	11S	0.0	18.0
79	11+25S	0.0	20.0
80	11+50S	0.1	69.0
81	11+75S	0.0	26.0
82	12+00S	0.0	34.0
83	12+25S	0.0	17.0
84	12+50S 11+50E	0.0	21.0
85	10S 12E	0.0	25.0
86	10+25S	0.0	18.0
87	10+50S	0.0	22.0
88	10+75S	0.0	23.0
89	11S	0.1	68.0
90	11+25S	0.0	27.0
91	11+50S	0.0	27.0
92	11+75S 12E	0.0	41.0
93	10S 12+50E	0.0	56.0
94	10+25S	0.0	36.0
95	10+50S	0.0	19.0
96	10+75S	0.1	19.0
97	11S	0.1	35.0
98	11+25S	0.0	58.0
99	11+50S	0.0	36.0
100	11+75S 12+50E	0.0	21.0
101	10+25S 13E	0.2	29.0
102	10+50S	0.1	20.0
103	10+75S	0.0	24.0
104	11S 13E	0.0	21.0
105	10+25S 13+50E	0.0	15.0
106	10+50S	0.0	24.0
107	10+75S	0.0	45.0
108	11S	0.0	26.0
109	11+25S	0.0	20.0
110	11+50S 13+50E	0.0	18.0

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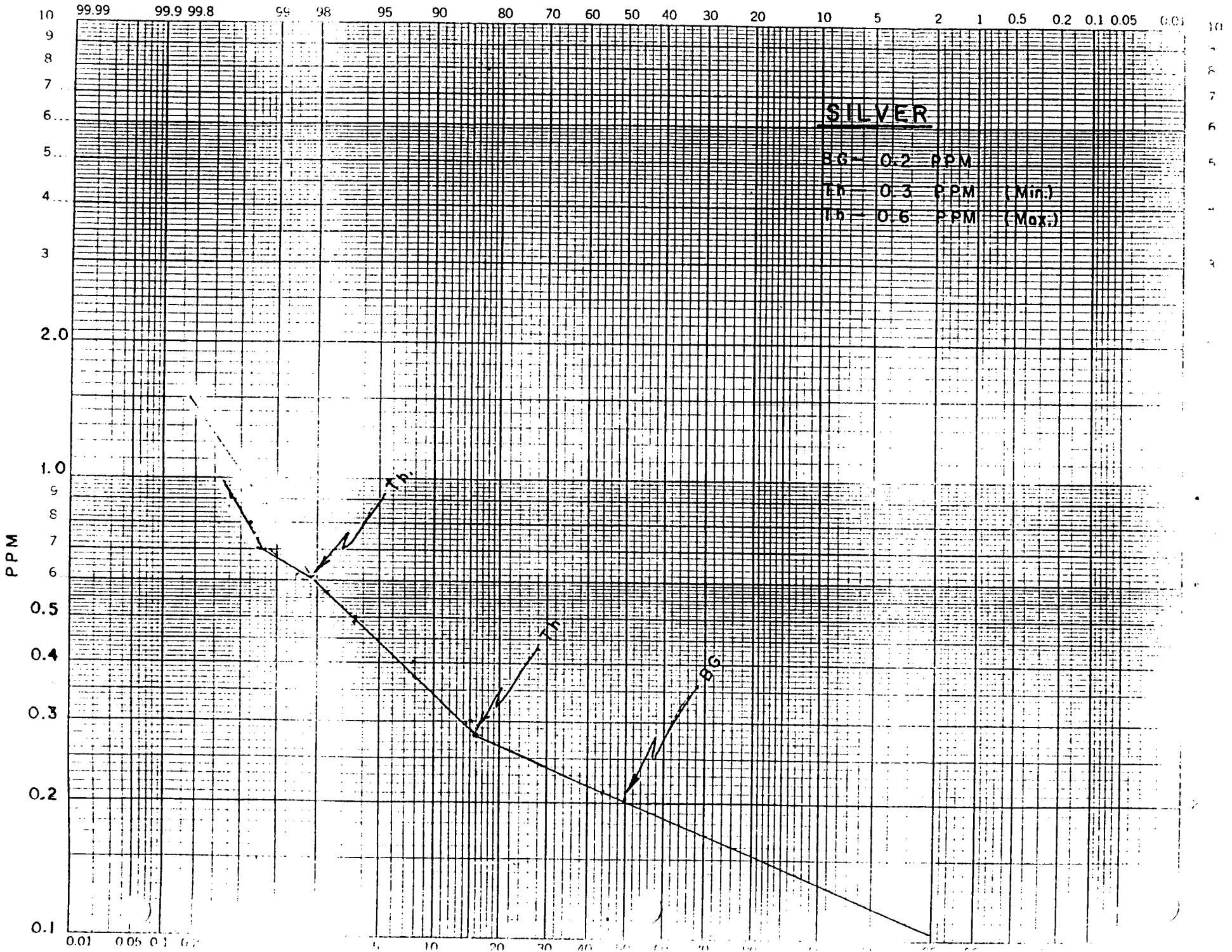
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PAGE 4 / 4

KRAL NO.	IDENTIFICATION	AG	CU
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112	10+25S	0.1	21.0
113	10+50S	0.0	18.0
114	10+75S	0.0	17.0
115	11S	0.1	17.0
116	11+25S	0.0	49.0
117	11+50S 14+50E	0.0	40.0
118	10+25S 15E	0.0	15.0
119	10+50S	0.0	13.0
120	10+75S	0.0	30.0
121	11S 15E	0.1	18.0
122	10S 15+50E	0.0	23.0
123	10+25S	0.0	17.0
124	10+50S	0.0	17.0
125	10+75S	0.0	19.0
126	11S 15+50E	0.0	18.0
127	10S 16E	0.2	31.0
128	10+25S	0.1	16.0
129	10+50S	0.0	19.0
130	10+75S	0.0	18.0
131	11S 16E	0.0	32.0
132	10S 16+50E	0.0	39.0
133	10+25S	0.1	30.0
134	10+50S	0.0	21.0
135	10+75S	0.1	18.0
136	11S 16+50E	0.0	24.0

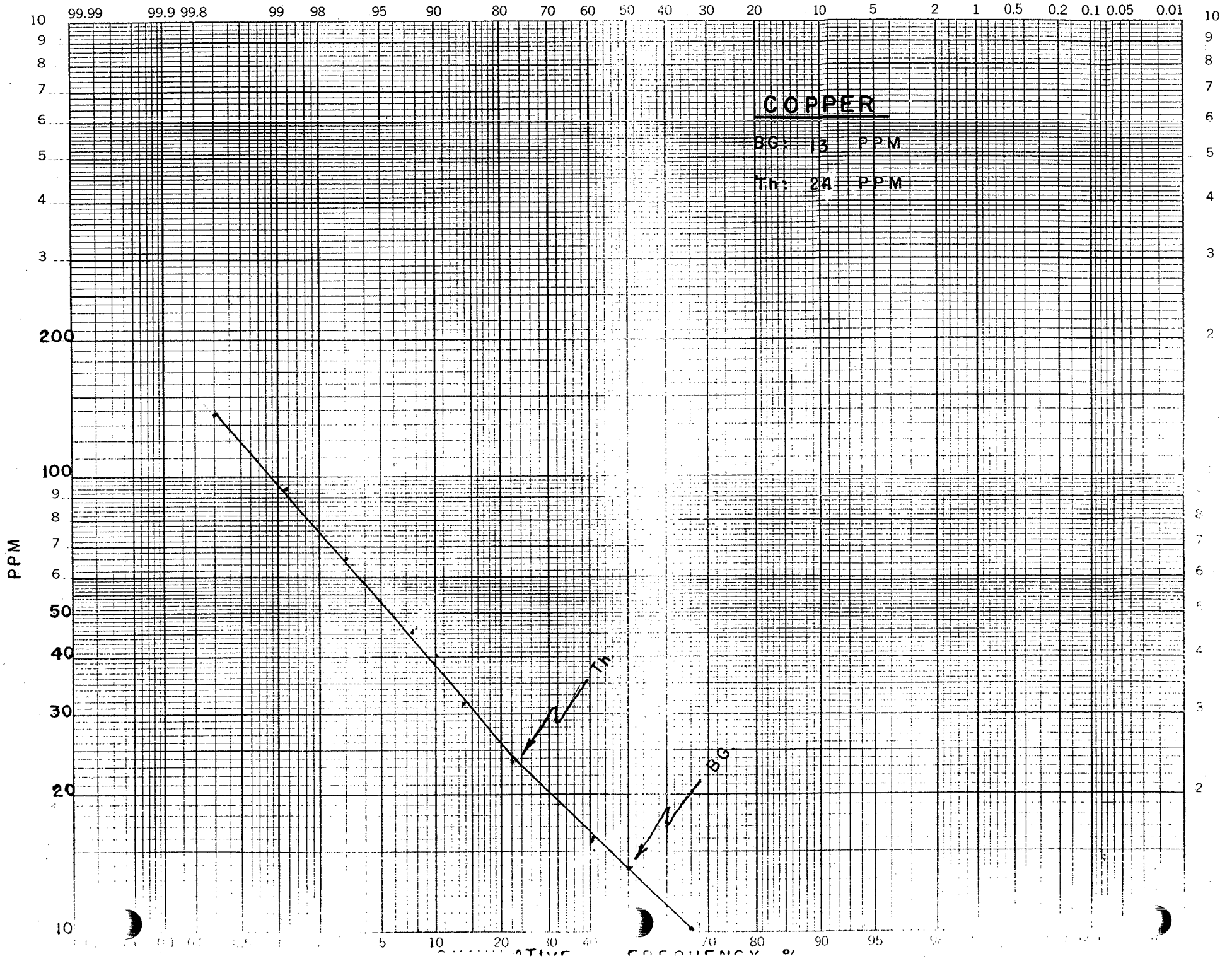
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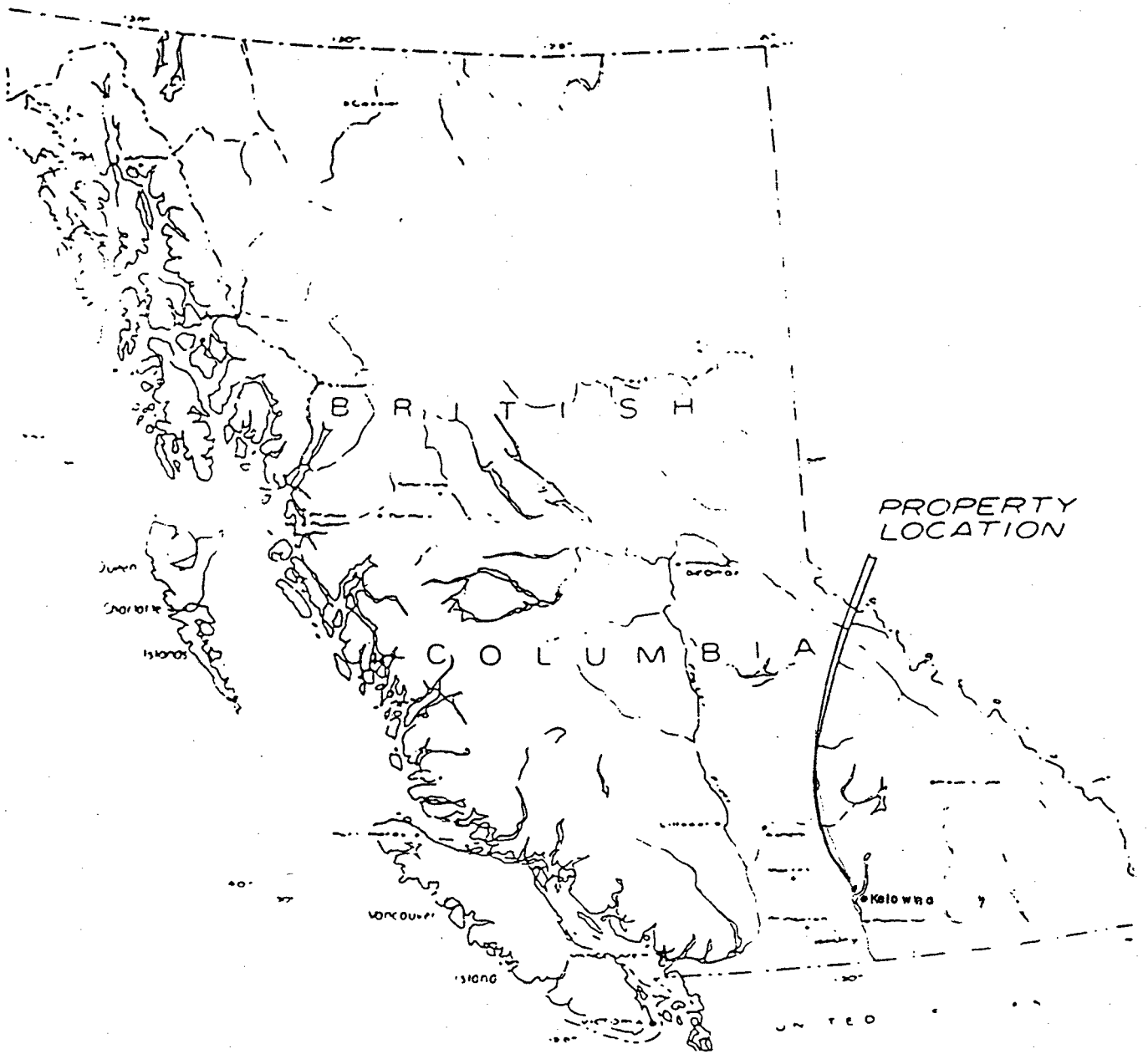
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0.4	57	3.9	7.4
0.5	27	1.8	3.5
0.6	15	1.0	1.7
0.7	2	0.1	0.7
0.8	3	0.2	0.6
0.9	1	0.1	0.4
1.0	3	0.2	0.3
	<hr/> 1476	<hr/> 100.0	



CUMULATIVE FREQUENCY PLOT FOR COPPER

CLASS	FREQUENCY	% FREQUENCY	CUMULATIVE FREQUENCY %
0.10 - 0.14	5	0.3	100.0
0.14 - 0.21	1	0.1	99.7
0.21 - 0.29	0	0.0	99.6
0.29 - 0.42	0	0.0	99.6
0.42 - 0.61	0	0.0	99.6
0.61 - 0.87	0	0.0	99.6
0.87 - 1.25	1	0.1	99.6
1.25 - 1.79	0	0.0	99.5
1.79 - 2.56	0	0.0	99.5
2.56 - 3.67	25	1.7	99.5
3.67 - 5.27	197	13.3	97.8
5.27 - 7.55	272	18.4	84.5
7.55 - 10.83	372	25.2	66.1
10.83 - 15.53	254	17.2	40.9
15.53 - 22.27	148	10.0	23.7
22.27 - 31.94	84	5.7	13.7
31.94 - 45.79	74	5.0	8.0
45.79 - 65.66	27	1.8	3.0
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94.15 - 135.00	4	0.3	0.3
	<hr/> 1476	<hr/> 100.0	

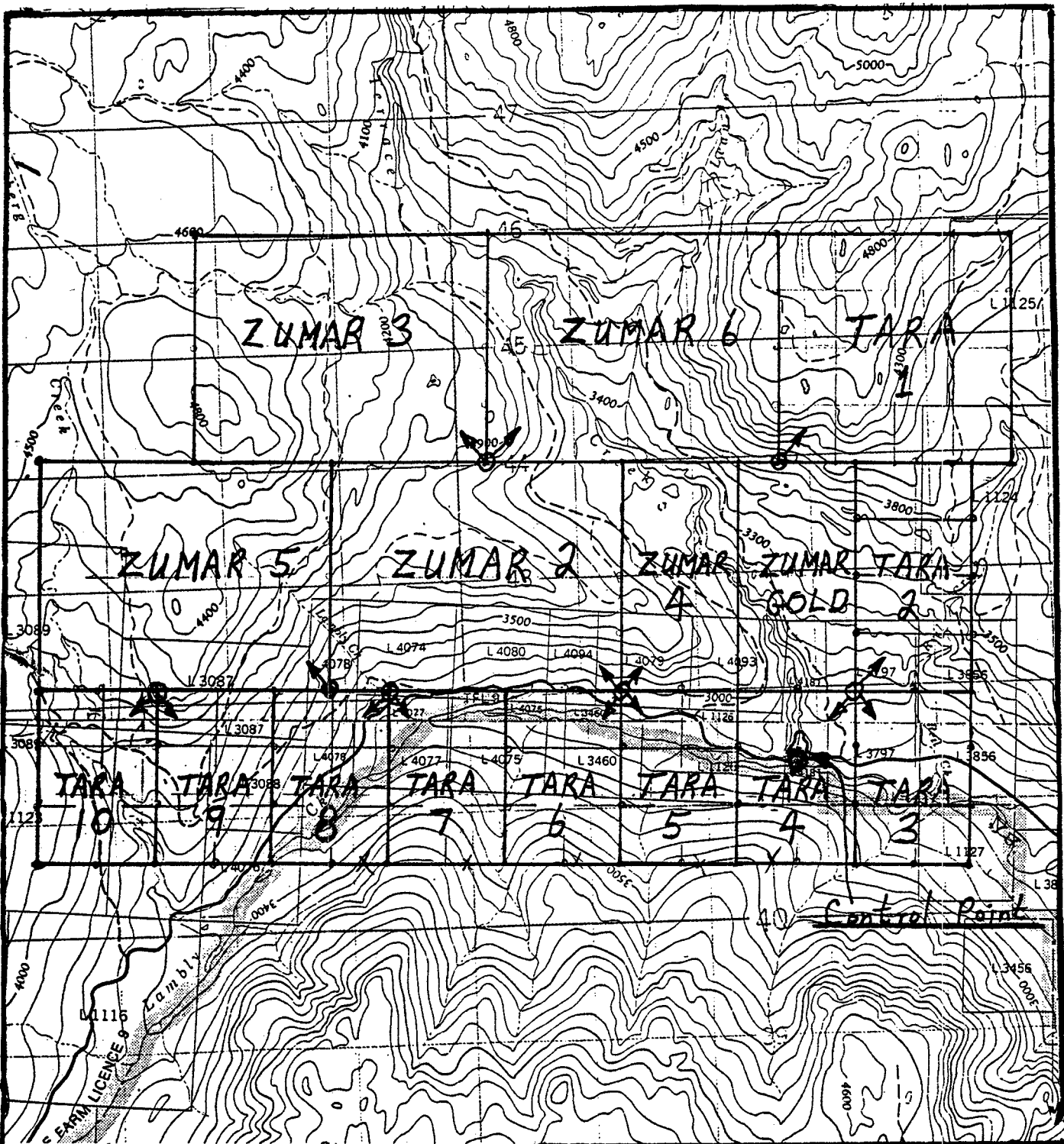




TARA MINERAL CLAIMS

LOCATION MAP

PLATE I



4, 5, 6, 7  
30 units

TARA MINERAL CLAIMS	
<b>AREA CLAIM MAP</b>	
82L/4E & 82E/13E	
SCALE: 1:50,000	PLATE 2



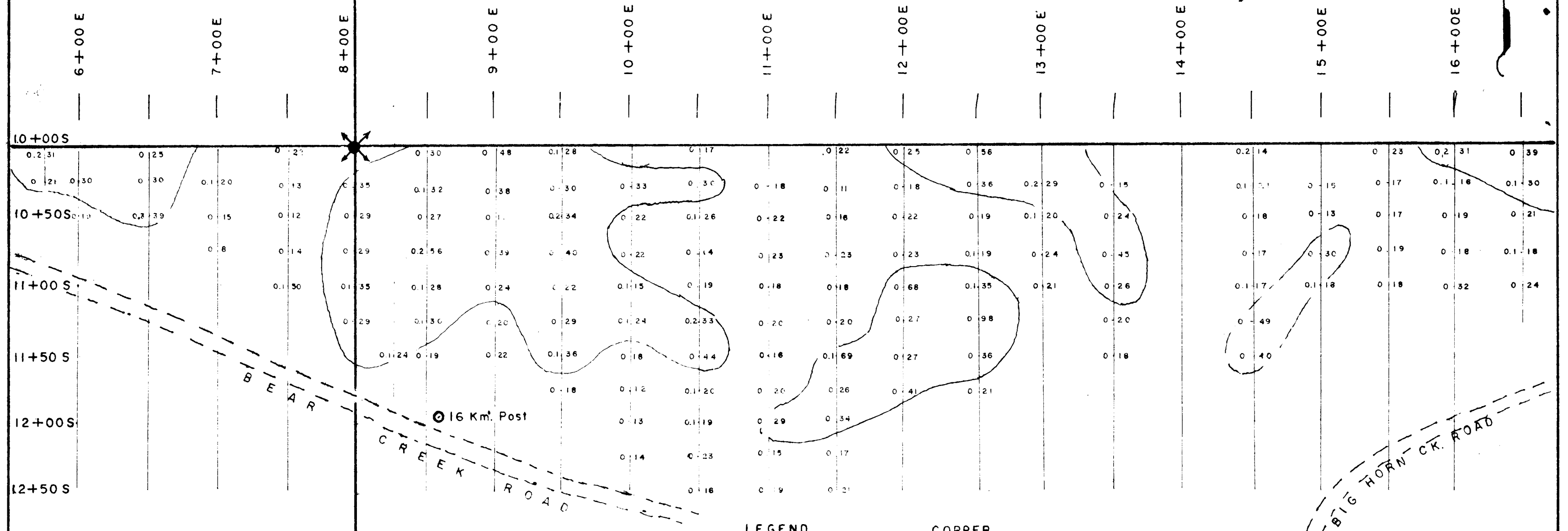
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,498



ZUMAR 2

ZUMAR 4



LEGEND

P.P.M. SILVER 0.1

COPPER CONTOUR 24-72 P.P.M.

**COPPER**  
Background — 13 P.P.M.  
Threshold — 24 P.P.M.

**SILVER**  
Background — 0.2 P.P.M.  
Threshold — 0.3 P.P.M.

TARA 6

TARA 5

GEOCHEMICAL SURVEY FOR  
COPPER & SILVER

SCALE: 1:2500	APPROVED BY:	DRAWN BY:
DATE: NOV. 1987		REVISED:
TARA MINERAL CLAIMS VERNON M.D.		
Scale: 0 50 100 150 m.	DRAWING NUMBER 3	