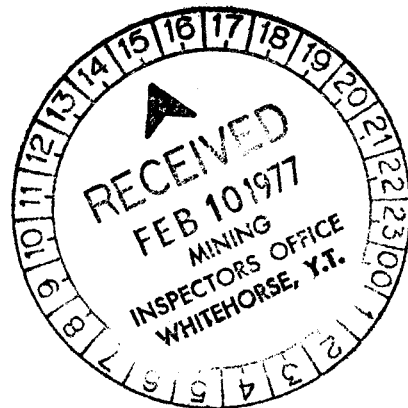


GEOCHEMICAL EXPLORATION REPORT

ANISE CLAIM GROUP



Whitehorse Mining District
Yukon Territory



N.T.S. 105 F - 10

Latitude: 61⁰ 40' N

Longitude: 132⁰ 45' W

By:

P. Dean

CYPRUS ANVIL MINING CORPORATION

January 10, 1977.

090175



This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ 12,800.00

W.D. Linnell

~~Resident Geologist or
Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

[Signature]

G.R. BAUER
Supervising Mining Recorder

for Commissioner of Yukon Territory

GEOCHEMICAL EXPLORATION REPORT

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Latitude: 61⁰ 40' N

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January 10, 1977.

Field Work Done from July 9/76 - Aug 19/76.

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Figure 3 - in pocket	- Geochem Values Map	- 1" : 400 feet

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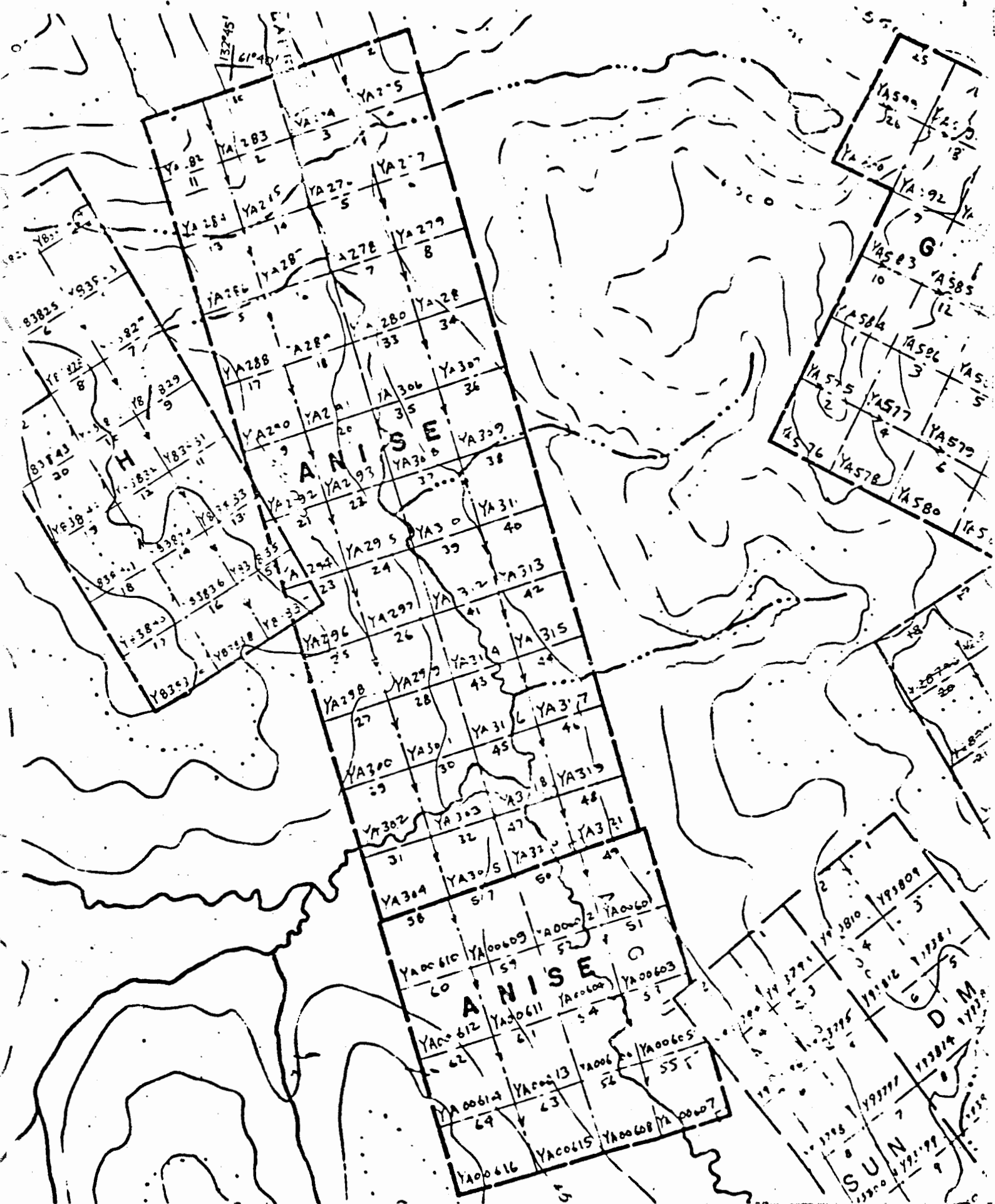
APPENDICES

Appendix I	List of Personnel
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LIST OF CLAIMS

<u>Claims</u>	<u>Grant Nos.</u>	<u>Recording Dates</u>
ANISE 1 - 48	YA 274 - YA 321	July 26, 1976
ANISE 49 - 64	YA 601 - YA 616	August 23, 1976

PELLY PROJECT

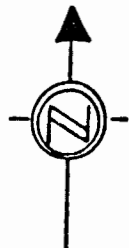


ANISE CLAIM GROUP

Figure 2

n.t.s.: 105-F-10

scale: 1" = 1/2 mi.



Cyprus Anvil Mining Corporation

330, 355 Burrard Street Telex 04508594
Vancouver, British Columbia
V6C 2G8
Telephone (604) 687-2586

GEOCHEMICAL EXPLORATION REPORT

ANISE CLAIM GROUP

INTRODUCTION

The ANISE Claim Group, consisting of 64 contiguous claims, lies in Seagull Creek Valley immediately south of Seagull Lakes, at approximately $132^{\circ} 45' W \times 61^{\circ} 40' N$ (Figure 1). The claims are accessible by float plane or helicopter from Ross River, 30 miles to the north. A tote road passable by 4 wheel-drive vehicles during dry weather passes through the claim group and connects it with the South Canal Road at Groundhog Creek. This road could easily be upgraded into a good quality summer road if required.

The claim group was staked as a result of a regional prospecting program carried out during the 1976 season by the Pelly Project, a joint venture exploration program carried out by Cyprus Anvil Mining Corporation and Hudson Bay Oil and Gas. The claims were staked to cover geochemical anomalies and float occurrences of galena, sphalerite, and pyrrhotite which occur in a geologically favourable environment.

SUMMARY AND CONCLUSIONS

During August, 1976, linecutting, geochemical sampling, and prospecting were carried out on the claim group. Magnetic and electromagnetic surveys are recommended to be carried out on the claim group during 1977 to attempt to develop targets for drill testing during the following season. The claim group lies in an overburden covered valley bottom area, so geologic mapping can provide only a very incomplete picture of the geology. The few outcrops which are present will be carefully

CYPRUS ANVIL

mapped however, in the hope that they may provide some assistance in interpreting the geophysical and geochemical results.

GEOLOGIC SETTING

The claims are mainly overburden covered, and therefore the underlying geology is virtually unknown. The hills to the east of Seagull Valley are underlain by Mississippian volcanics of andesitic composition which are strongly sheared and deformed. West of Seagull Valley the hills are underlain by shales and limestones of the Kechika Formation, of Cambrian to Ordovician age. The contact between these two contrasting geologic provinces underlies the claims in the bottom of Seagull Valley. The valley itself is markedly linear, and it has been proposed that it marks the location of an important NW - SE trending fault, the "Seagull Fault". There is no firm evidence for the existence of this fault. The few small outcrops which occur on the claim group are of black, pyritic shales and sheared grey-green volcanics of intermediate composition. These are probably Mississippian in age.

GEOCHEMISTRY

A total of 626 soil samples were taken on the ANISE Claim Group. Samples were taken at 200 foot intervals on lines spaced 800 feet apart (Figure 3). Samples were taken from the B and C soil horizons wherever possible.

The analytical procedure used on the samples began with air drying in Kraft paper bags, followed by sieving to yield a -80 mesh fraction. The oversize material was discarded. The -80 mesh material was digested in a nitric-perchloric acid reagent, which results in the total extraction of copper, lead, and zinc from the sample, including that portion bound up in silicate minerals. The quantities of copper, lead, and zinc are then determined using an atomic absorption instrument.

The results obtained from the survey are very erratic with numerous isolated anomalous samples throughout the grid area, but no well defined anomalous

zones. Peak values range as high as 2100 ppm lead and 1500 ppm zinc. The spotty nature of the anomalous geochem may be a result of discontinuous permafrost layers, which would only allow anomalous metal concentrations to reach the surface where windows occur in the permafrost layer. Anomalous values at the western extremities of lines 56, 64, and 120 to 136 are related to small vein showings of sphalerite and galena in massive dolomite. The valley bottom anomalies may be related to mineralization in black shales or volcanics, but cannot be definitely tied down to a source because of the lack of outcrop. The geochemical results will be very much more useful next year, when they can be compared with the results of the geophysical surveys which are planned.

PROPOSED EXPLORATION

Electromagnetic and magnetic surveys are proposed to be carried out on the ANISE Claim Group during the 1977 season. This work could commence as early as mid June, and could be completed by a crew of three geophysical operators in about 10 days. This work should aid geologic mapping by picking out the graphitic shale units and fault structures, and should locate any near surface sulfide bodies which may be present.

PROPOSED 1977 BUDGET

	<u>Geophysics</u>	<u>Mapping & Other Work</u>	<u>Total</u>
01 Salaries and Wages	\$ 1,200	\$ 2,500	\$ 3,700
03 Consulting	500		500
12 Field Equipment	220	200	420
13 Camp Maintenance	530	700	1,230
15 Rotary Wing	1,600		1,600
16 Fixed Wing	1,000		1,000
17 Miscellaneous Transportation		500	500
Expediting		200	200
	<hr/>	<hr/>	<hr/>
TOTALS	\$ 5,050	\$ 4,100	\$ 9,150

Respectfully Submitted,




PETER DEAN.

January 10, 1977.

STATEMENT OF QUALIFICATIONS

I, PETER DEAN, of 1405 - 1011 Beach Avenue, Vancouver, British Columbia, state that:

- 1) I received a BSc degree from the University of British Columbia in 1967;
- 2) Since 1966 I have been continuously employed by mining companies in the Field of Mineral Exploration, in Canada and in South America;
- 3) Since 1975 I have been employed by Cyprus Anvil Mining Corporation as a Staff Geologist in charge of various base metal exploration projects in Western Canada;
- 4) I am a Fellow of the Geological Association of Canada.



Peter Dean.

TABLE I: Histogram of Lead Values From Anise Grid

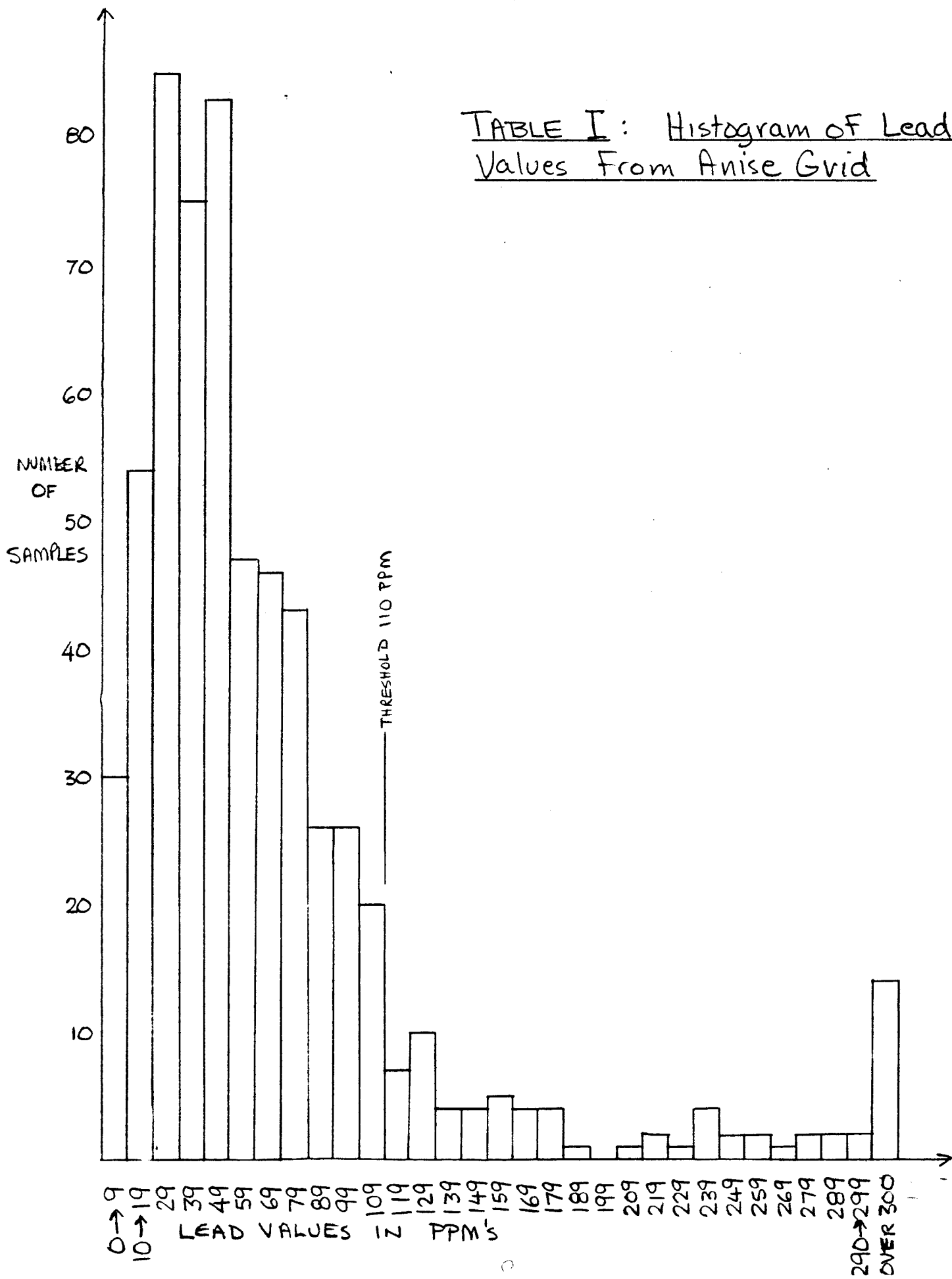
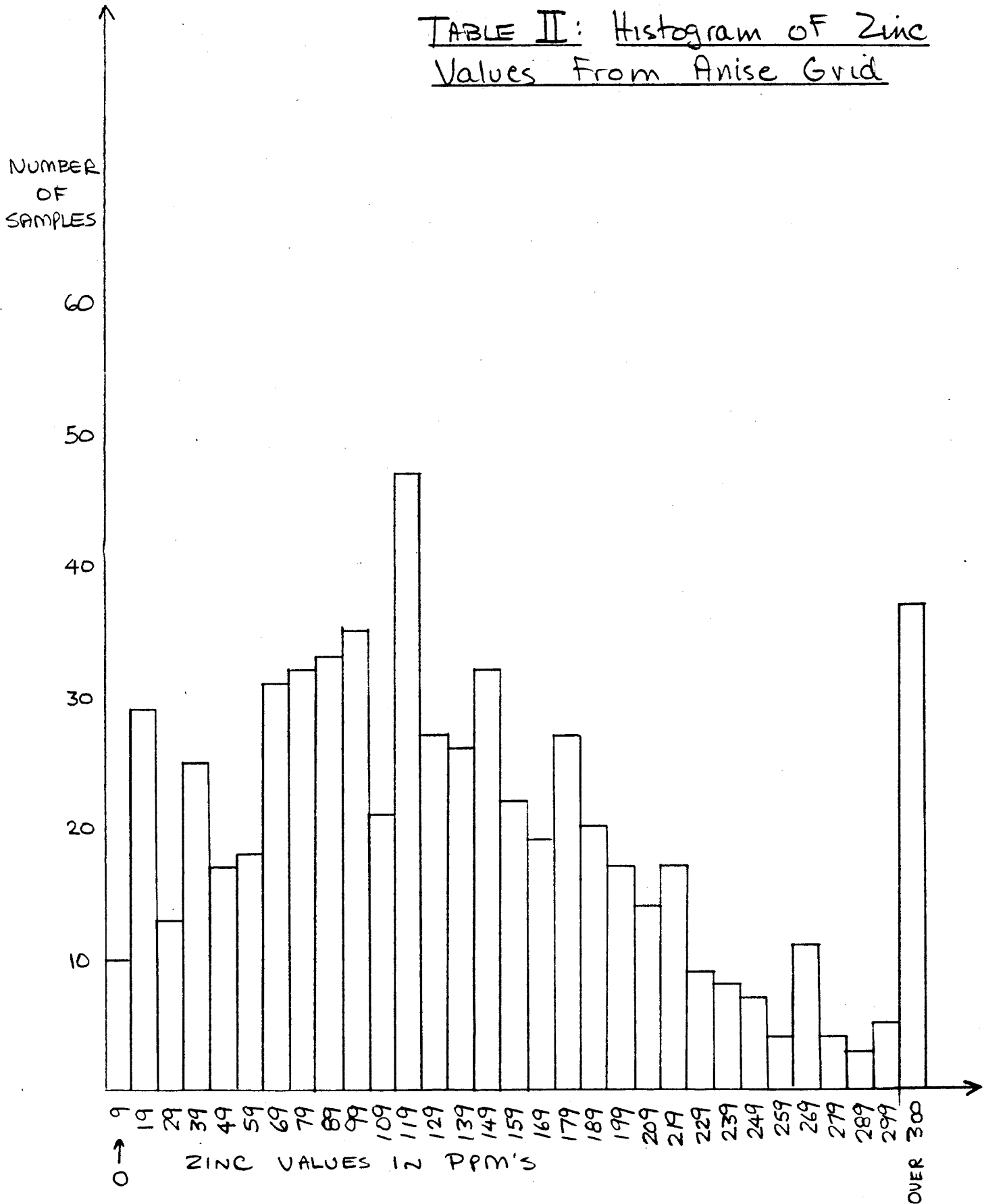
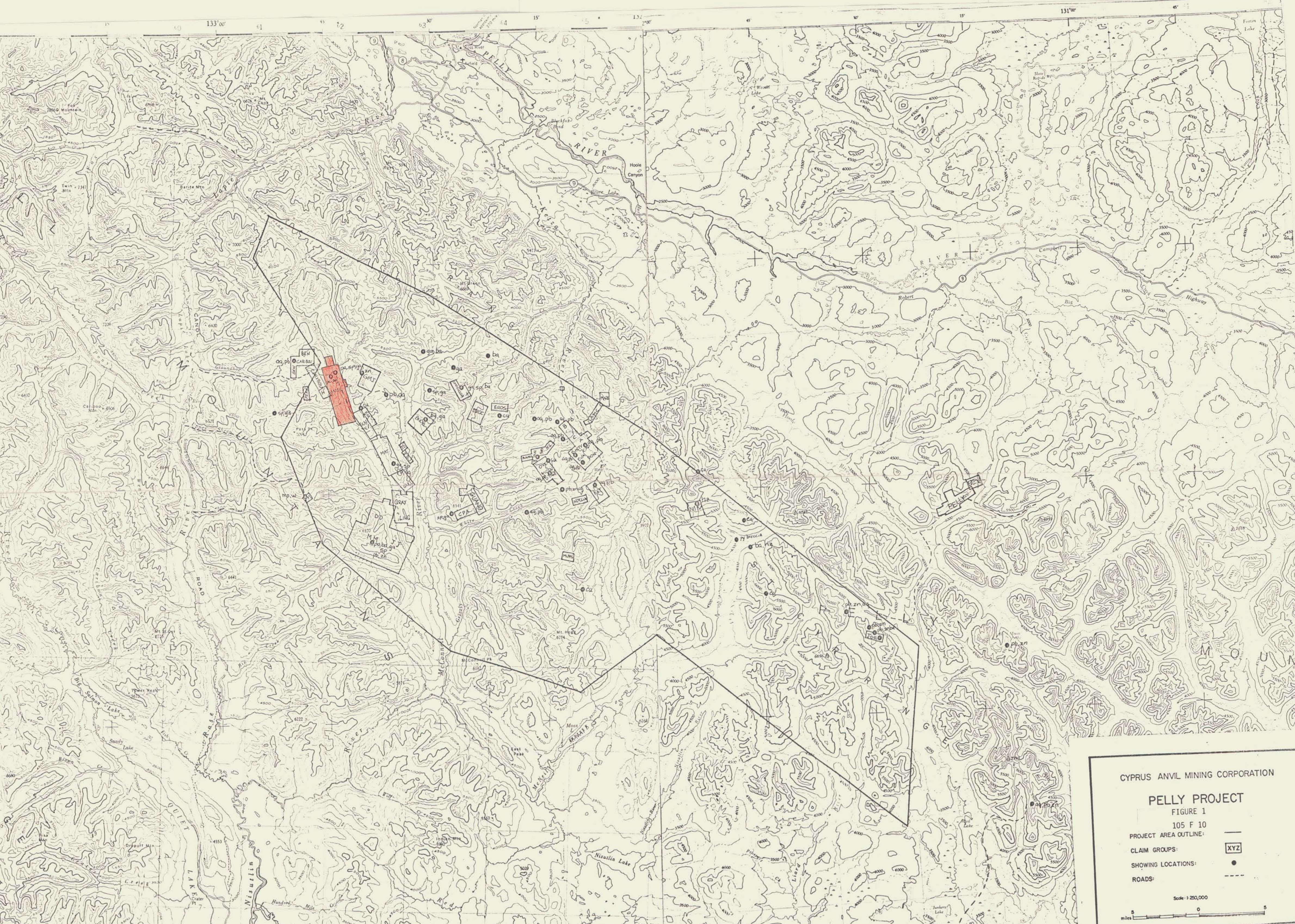


TABLE II: Histogram of Zinc Values From Anise Grid





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PELLEY PROJECT

FIGURE 1

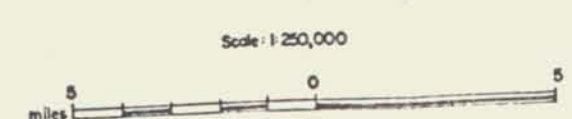
105 F 10

PROJECT AREA OUTLINE: —

CLAIM GROUPS: XYZ

SHOWING LOCATIONS: ●

ROADS: - - -



CYPRUS ANVIL
MINING CORPORATION

Fig 3
PELLE PROJECT

ANISE CLAIM GROUP

GEOCHEM GRID

● Cu, Pb, Zn

1" = 400 ft.

nts: 105-F-10

