

ASSESSMENT REPORT

BONCH, DYNO, SUNDAY, TARA LEE,  
CONNIE, KAY 1, KAY 2, & KAY 3.

FORT STEELE M.D.

N.T.S M 82 J/2W

LAT: 50 S' N

LONG: 114 57" W

BULK SAMPLE GEOCHEMICAL SURVEY

PERIOD: JUNE/JULY 1982

OWNER: C. F. Mineral Research Ltd.

OPERATOR: C. Fipke

Kelowna, B.C.

August 28/82

Consultant: C. Fipke

Author: R. Capell

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**10,895**

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## INTRODUCTION

### Location & Access

The claims are located in the Rocky Mountains of southeastern British Columbia in the East Kootenay District near Elkford village. (Figure 1). The claims group lie near the headwaters of Crossing Creek and the Elk River. Access is by 8.1 km of four wheel drive road and by about 2.4 km of easy walking. The N.T.S. reference is M82 J/2W.

### Ownership,

The claims are currently owned by C.F. Mineral Research Ltd. of Kelowna while C. Fipke is presently the claims operator.

### Summary of Work Completed

An assessment report of September 30, 1980 described an airborne electromagnetic survey and a geochemical survey carried out over the area. In addition to the conventional geochemical samples taken 35lb samples of glacial drift were collected at each sample site. These bulk samples were taken as a precautionary measure in case the original samples failed to give any geochemical response due to dilution by the large quantities of glacial cover in the area.

As a follow-up to the earlier surveys the bulk samples were processed by heavy mineral concentration and the concentrates were geochemically analysed to attempt to detect the presence of a buried mineral source.

### Bulk Sample Geochemical Survey

During the initial sampling program in 1980 35-40lbs of 6 mesh glacial drift and/or talus samples were collected at each site where conventional geochemical soil samples were taken. When the original geochemical samples were analysed results indicated no anomalous values for copper or lead. The abundant glacial drift,

talus and soil components of the conventional samples analysed many have suppressed the geochemical detection of small quantities of base metal sulfides. To establish whether or not analysis results were affected by this dilution the bulk samples were concentrated with heavy liquids and the heavy mineral concentrates were analysed for Cu, Pb, Zn, Ni, Co, Cr, Ba, Sr, Zr, Nb, La and Cr. Samples containing 20,000ppm Ba and 10,000ppm Zr were reanalysed to obtain percentage concentrates of Ba and Zr. Results of the geochemical analyses are plotted on 1/20,000 scale maps of the claims. (Figures 2, 3 & 4).

Frequency distribution diagrams were prepared for Cu, Pb, Zn, Ni, Co, Cr, Ba, & Sr.

#### RESULTS AND CONCLUSIONS

Anomalous base metal geochemical values were found in the south and S.E. corner of the Tara Lee claims, the south of the Dyno claims and near the east side of the Bonch claims and also in scattered samples at the north end of the claims area. Possibly anomalous Ba mineralization was confined to the north end of the claims area.

APPENDIX A

Statement of Expenditures

Washing and wet seiving and tetrabromoethane separation  
of 79 bulk  $\pm$ 14 kg. sample (total wt. 1,110,000gms):

|   |           |
|---|-----------|
| @ * \$9.00/1st. 400gms X 79               | 711.00    |
| @ * \$3.00/additional 200gms X 1153400gms | 16,176.00 |

|  |          |
|--|----------|
| Methylene iodide separation of sinks<br>79 samples X ** \$18.00/sample | 1,422.00 |
|--|----------|

|  |          |
|--|----------|
| Frantz separation of samples 158hrs @ * \$25.00/hr | 3,950.00 |
|--|----------|

|  |          |
|--|----------|
| Cu-Pb-Zn-Ni-Co-Cr-Ba-Nb-Sr-Zr-Ce-La geochemistry **<br>including pulverizing | 2,417.85 |
|--|----------|

|   |        |
|---|--------|
| Plotting frequency distribution diagrams and results<br>and compiling report 2½ geologist days @ \$300.00/day | 750.00 |
|---|--------|

|   |       |
|---|-------|
| Typing and copying and report materials | 40.00 |
|---|-------|

\* Cominco Rates

\*\* Bondar-Clegg Rates

|       |             |
|-------|-------------|
| TOTAL | \$25,466.85 |
|-------|-------------|

Please apply any excess approved credits to the P.A.C. Account  
of C.F. Mineral Research Ltd.

APPENDIX B

STATEMENT OF QUALIFICATIONS

The accompanying report and geochemical analysis was completed by geologists R. Capell and C. Fipke of C.F. Mineral Research Ltd.

Mrs Rosemary Capell is a 1965 BSc graduate of University College of Rhodesia. Between 1966 and 1975 Mrs Capell worked for Anglo American in Rhodesia chiefly on base metal geochemistry.

C. Fipke is a BSc Honors Geology graduate of the University of British Columbia. Between 1970 and 1977, C. Fipke worked as a geologist involved to a large extent in heavy mineral exploration and research for Kennecott Copper in New Guinea, Samedan Oil in Australia, Johannesburg Consolidated Investments in Southern Africa and Cominco Ltd. in Brazil and British Columbia. C. Fipke and L.M. Fipke organized C. F. Mineral Research Ltd. in 1977. Currently the C.F. Mineral Research heavy mineral laboratory which employes 25 to 35 people is involved in heavy mineral exploration and processing on behalf of many international companies.

C. F. MINERAL RESEARCH LTD.  
263 LAKE AVENUE  
KELOWNA, B.C. V1Y 5W6

No 1378

*July 2 19 82*

PAY TO THE ORDER OF

*Minister of Finance*

\$ 105.00

SUM

**105 DOLLARS 00 CTS**

DOLLARS

KELOWNA & DISTRICT CREDIT UNION  
KELOWNA BRANCH  
1475 ELLIS STREET  
KELOWNA, B.C. V1Y 2A3

15 JUL 14 1982 C.F. MINERAL RESEARCH LTD.  
ACCOUNT NO. 28722-7

KELOWNA & DISTRICT CREDIT UNION  
KELOWNA BRANCH

*15 Japke*

⑆00040⑆

⑆⑆

⑆0⑆⑆028⑆⑆22⑆⑆⑆⑆

⑆00000⑆0500⑆

FORM 1A

⑆00000⑆0500⑆

C. F. MINERAL RESEARCH LTD.  
263 LAKE AVENUE  
KELOWNA, B.C. V1Y 5W6

No 1376

*June 30 19 82*

PAY TO THE ORDER OF

*Minister of Finance*

\$ 975.00

SUM

**975 DOLLARS 00 CTS**

DOLLARS

KELOWNA & DISTRICT CREDIT UNION  
KELOWNA BRANCH  
1475 ELLIS STREET  
KELOWNA, B.C. V1Y 2A3

15 JUL 14 1982 C.F. MINERAL RESEARCH LTD.  
ACCOUNT NO. 28722-7

KELOWNA & DISTRICT CREDIT UNION  
KELOWNA BRANCH

*15 Japke*

⑆00040⑆

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⑆0⑆⑆028⑆⑆22⑆⑆⑆⑆

⑆00000⑆97500⑆

FORM 1A

⑆00000⑆97500⑆

1500 16884

201  
CANADIAN NATIONAL  
BANK OF COMMERCE  
DATE 08/28/02  
VANCOUVER B.C.  
09500-010  
28130

JUL 282

JUL 28.6 = 7MM

282

09500-010

60 28. N.Y.  
I. D. C.  
CENTRE  
C. D. C.

905220174

82-610-00500

1500 16879

201  
CANADIAN NATIONAL  
BANK OF COMMERCE  
DATE 08/28/02  
VANCOUVER B.C.  
09500-010  
28128

JUL 282

JUL 9.6 = 7MM

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09500-010

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CENTRE  
C. D. C.

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Handwritten mark resembling a stylized '2' or 'e'.

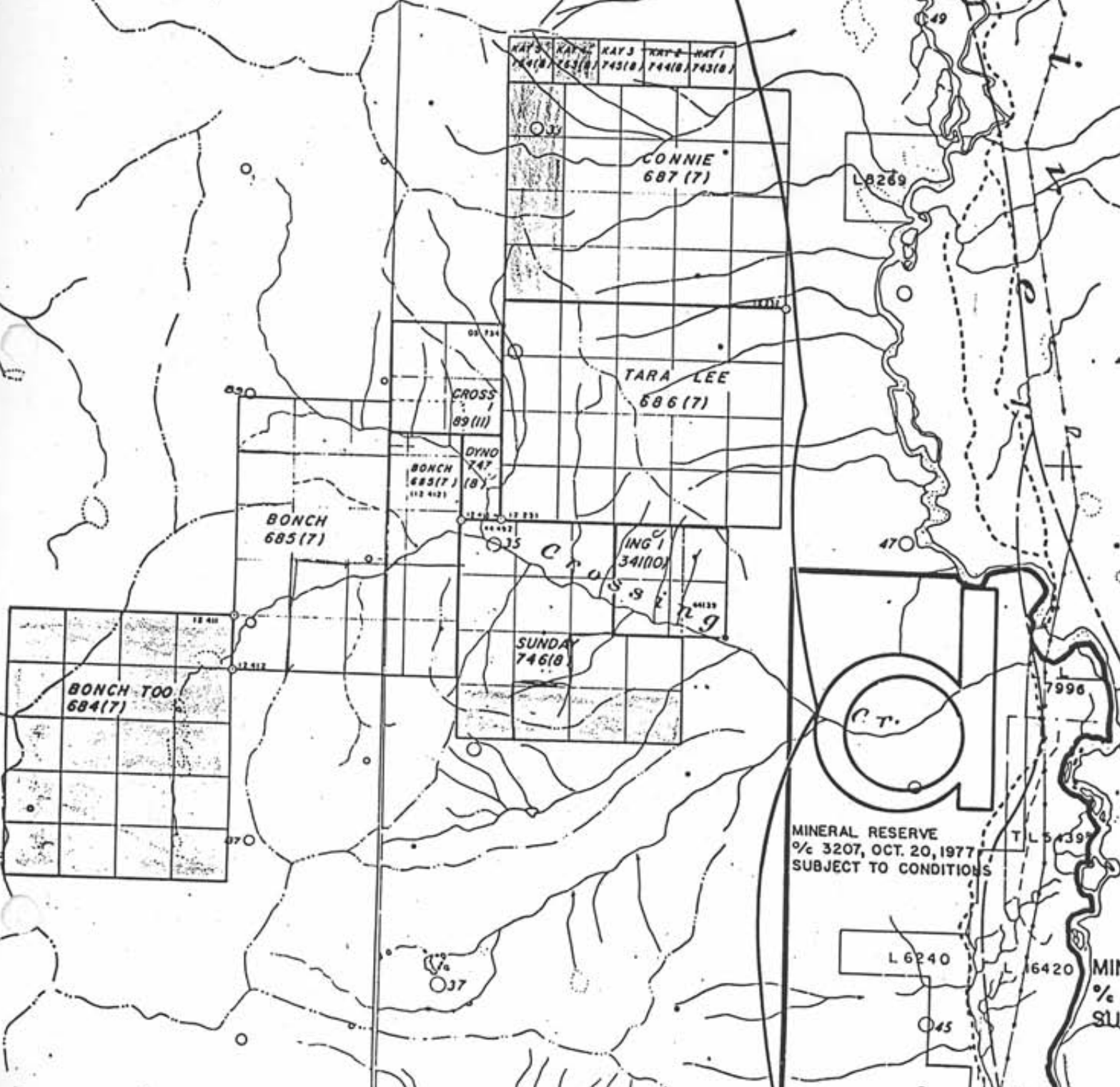
Handwritten text: 105851



MINERAL RESERVE  
% 2992, SEPT. 22, 1977  
SUBJECT TO CONDITIONS

FIGURE 1

Hamilton



MINERAL RESERVE  
% 3207, OCT. 20, 1977  
SUBJECT TO CONDITIONS

MINE  
% 2  
SUB.

CROSSING CREEK CLAIMS

Frequency Distribution of

Cu in -20 mesh fraction

n = 79

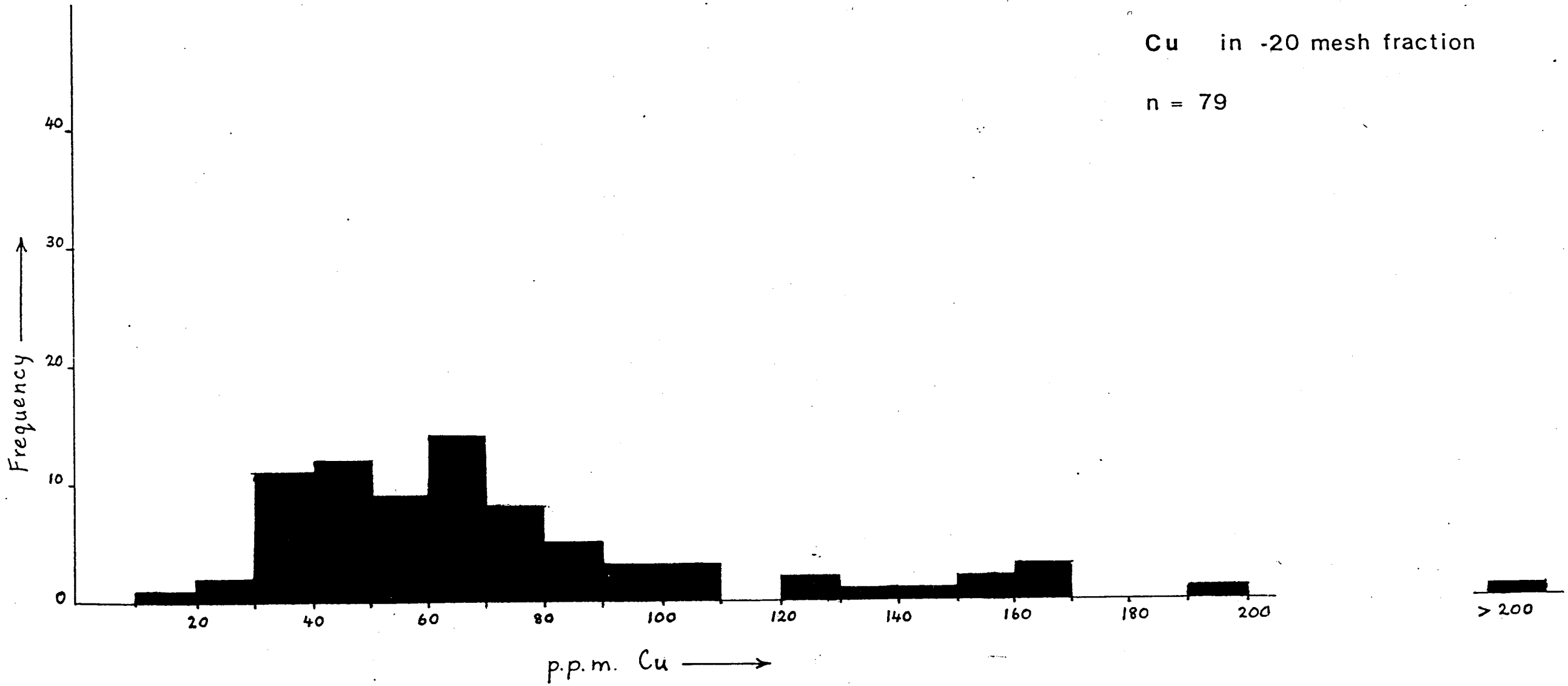


FIGURE 5 a

CROSSING CREEK CLAIMS

Frequency Distribution of

Pb in -20 mesh fraction

n = 79

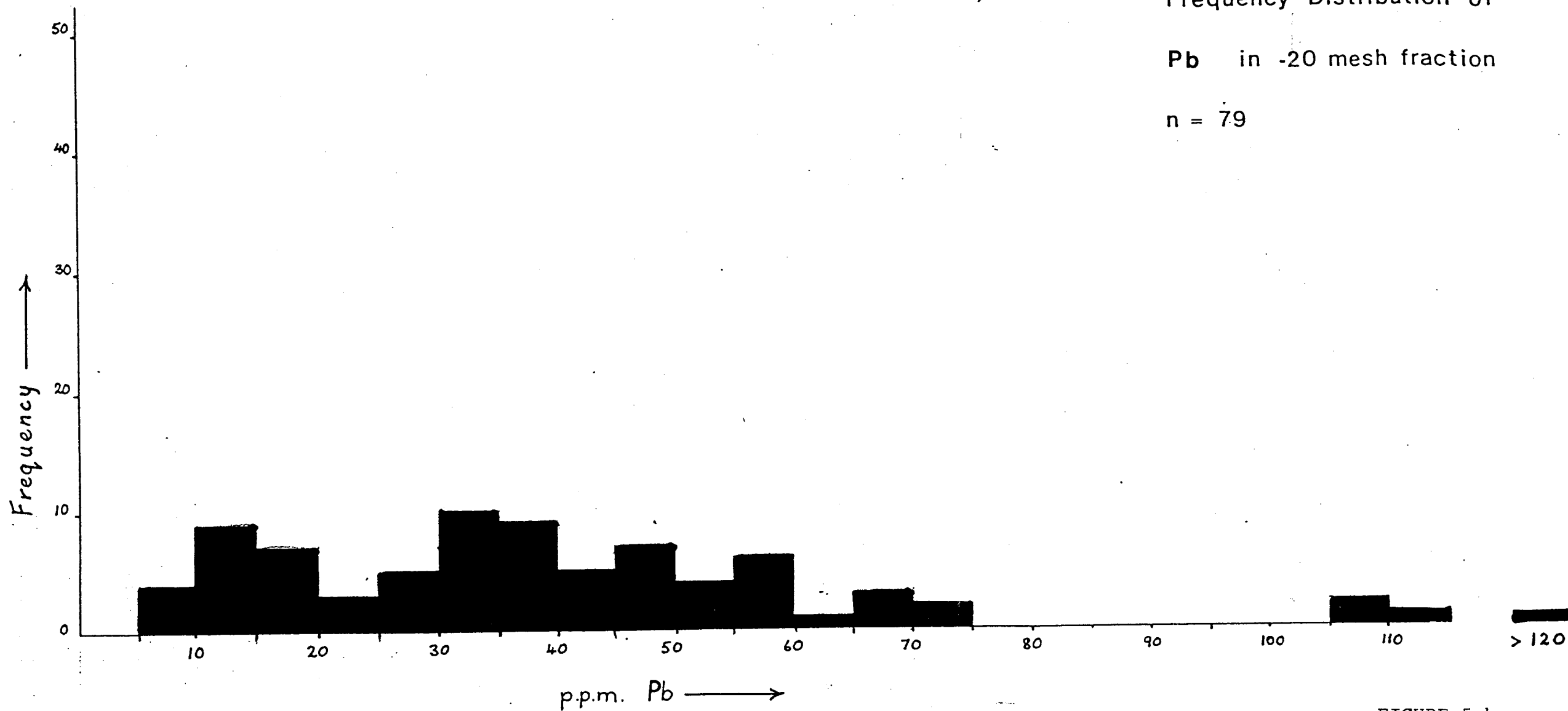


FIGURE 5 b

CROSSING CREEK CLAIMS

Frequency Distribution of

Zn in -20 mesh fraction

n = 79

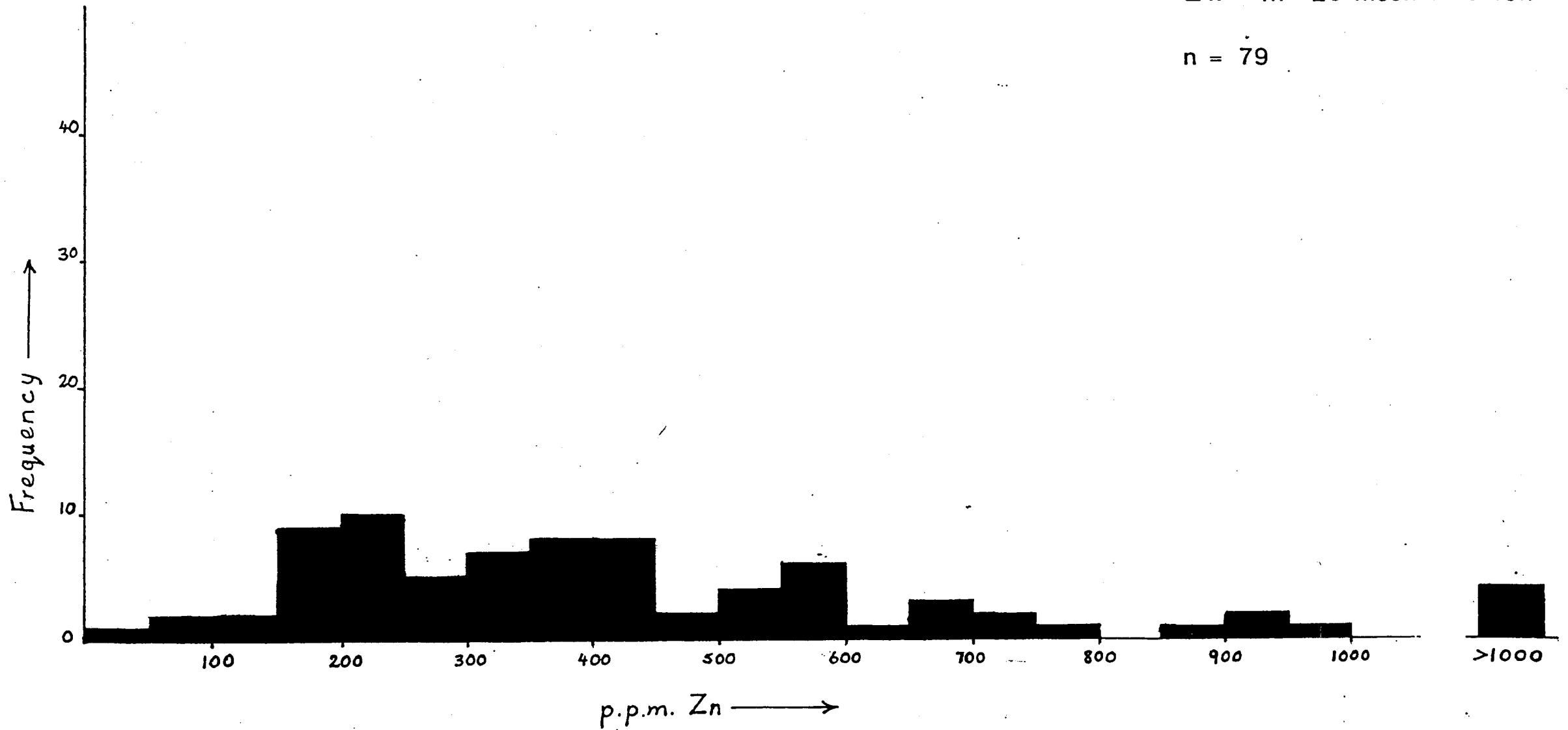


FIGURE 5 c

CROSSING CREEK CLAIMS

Frequency Distribution of

Ni in -20 mesh fraction

n = 79

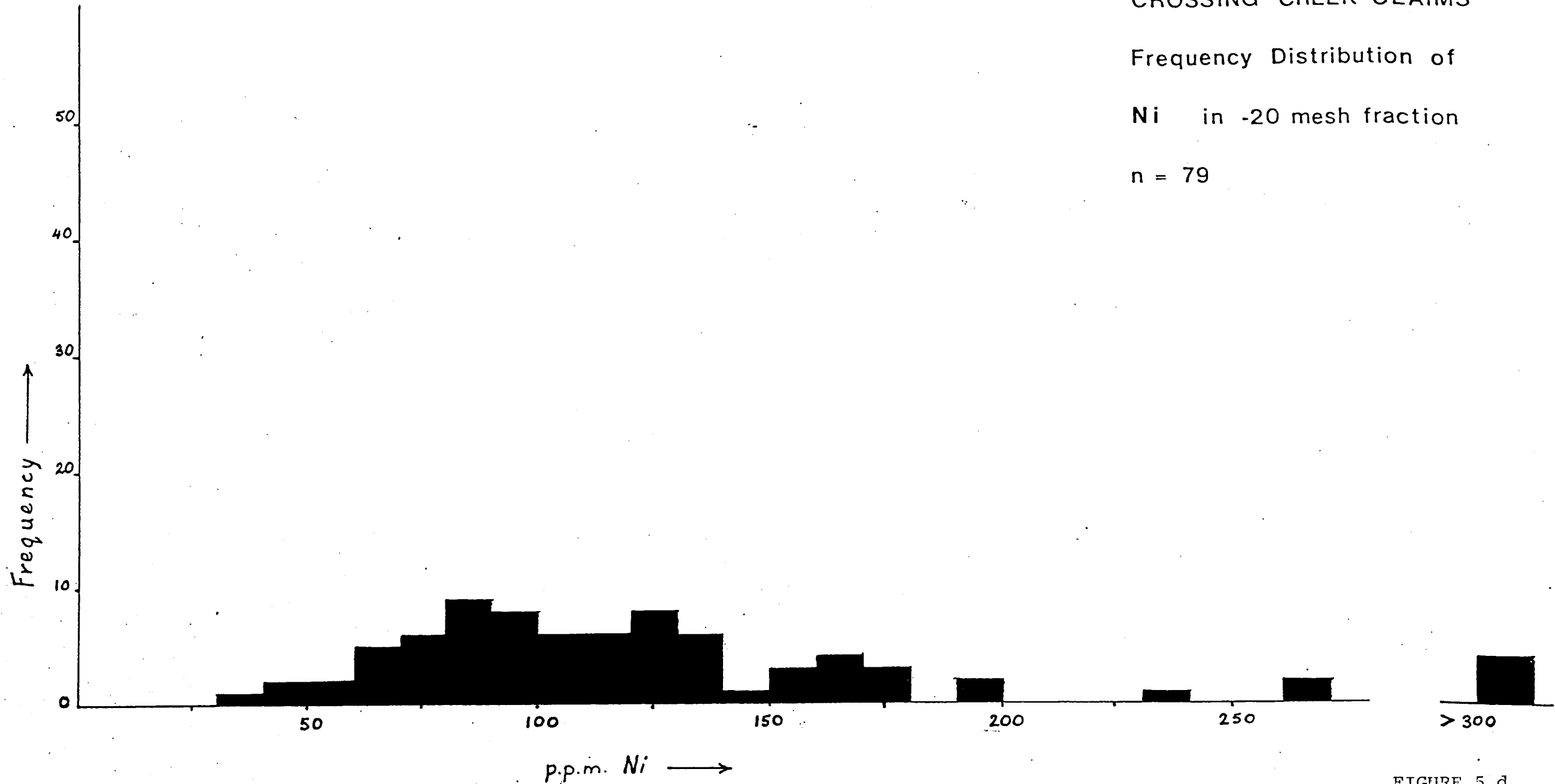


FIGURE 5 d.

CROSSING CREEK CLAIMS

Frequency Distribution of

Co in -20 mesh fraction

n = 79

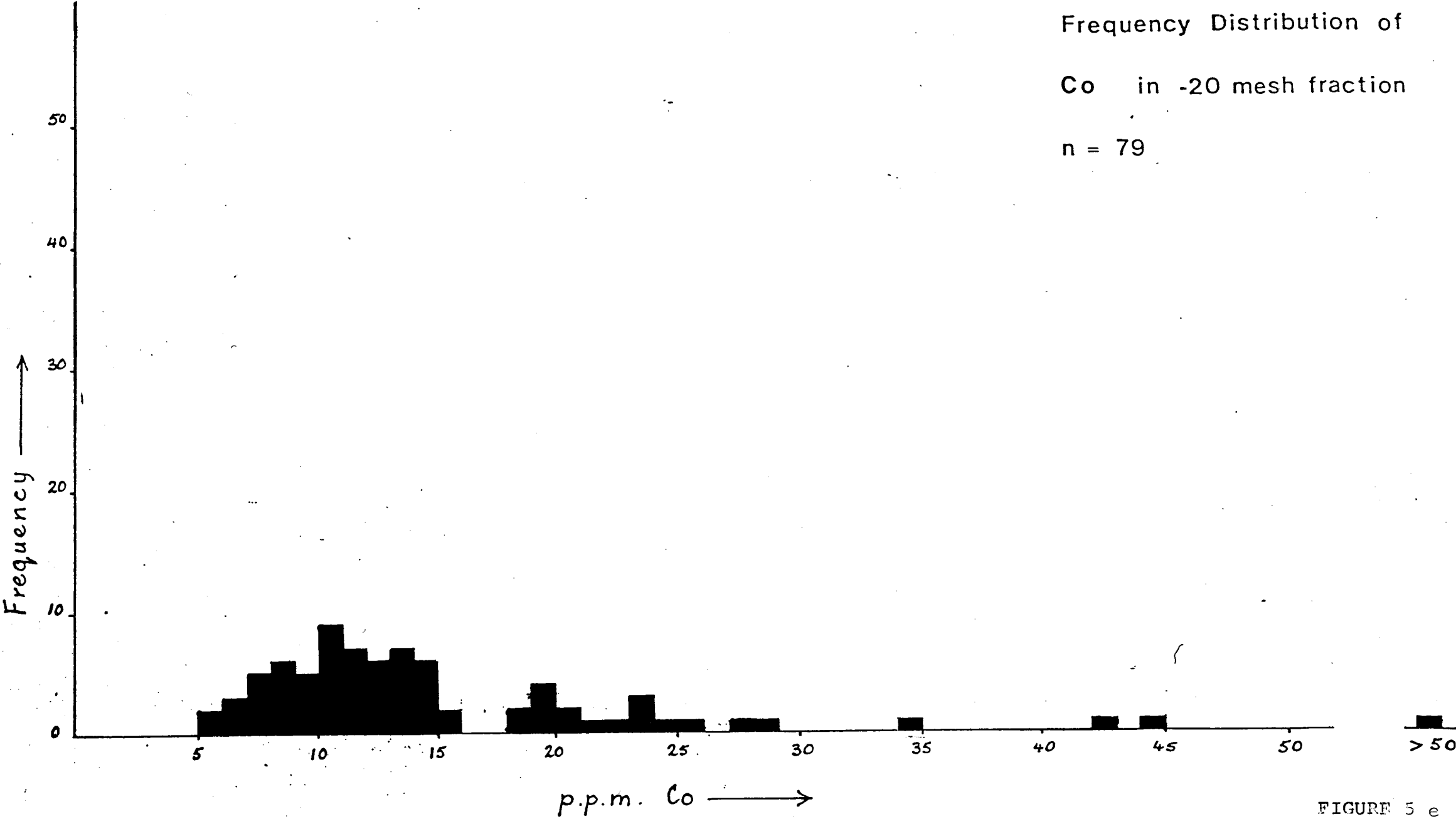


FIGURE 5 e

CROSSING CREEK CLAIMS

Frequency Distribution of

Cr in -20 mesh fraction

n = 79

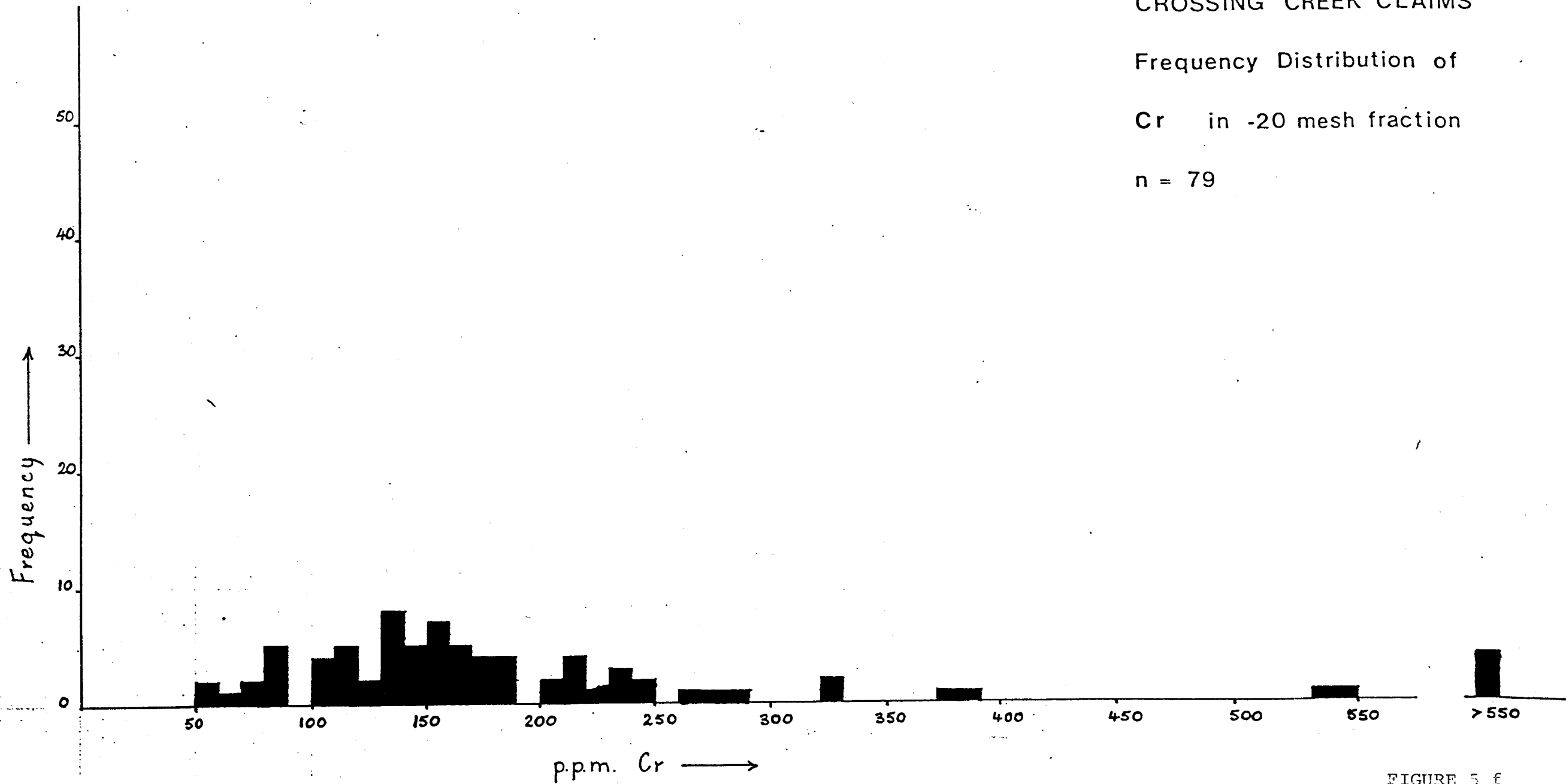


FIGURE 5 f

CROSSING CREEK CLAIMS

Frequency Distribution of

Ba in -20 mesh fraction

n = 79

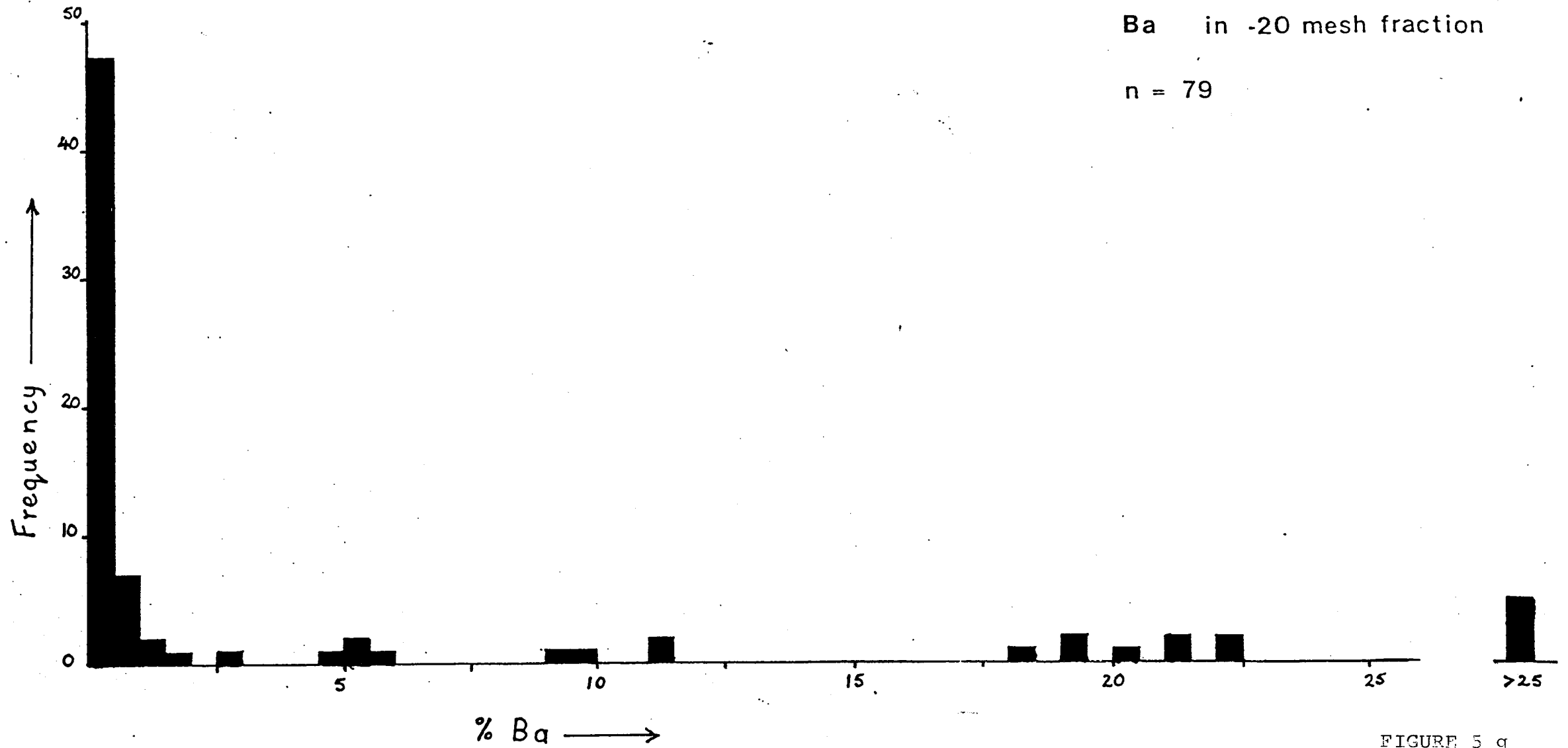


FIGURE 5 g



CROSSING CREEK CLAIMS

Frequency Distribution of

Sr in -20 mesh fraction

n = 79

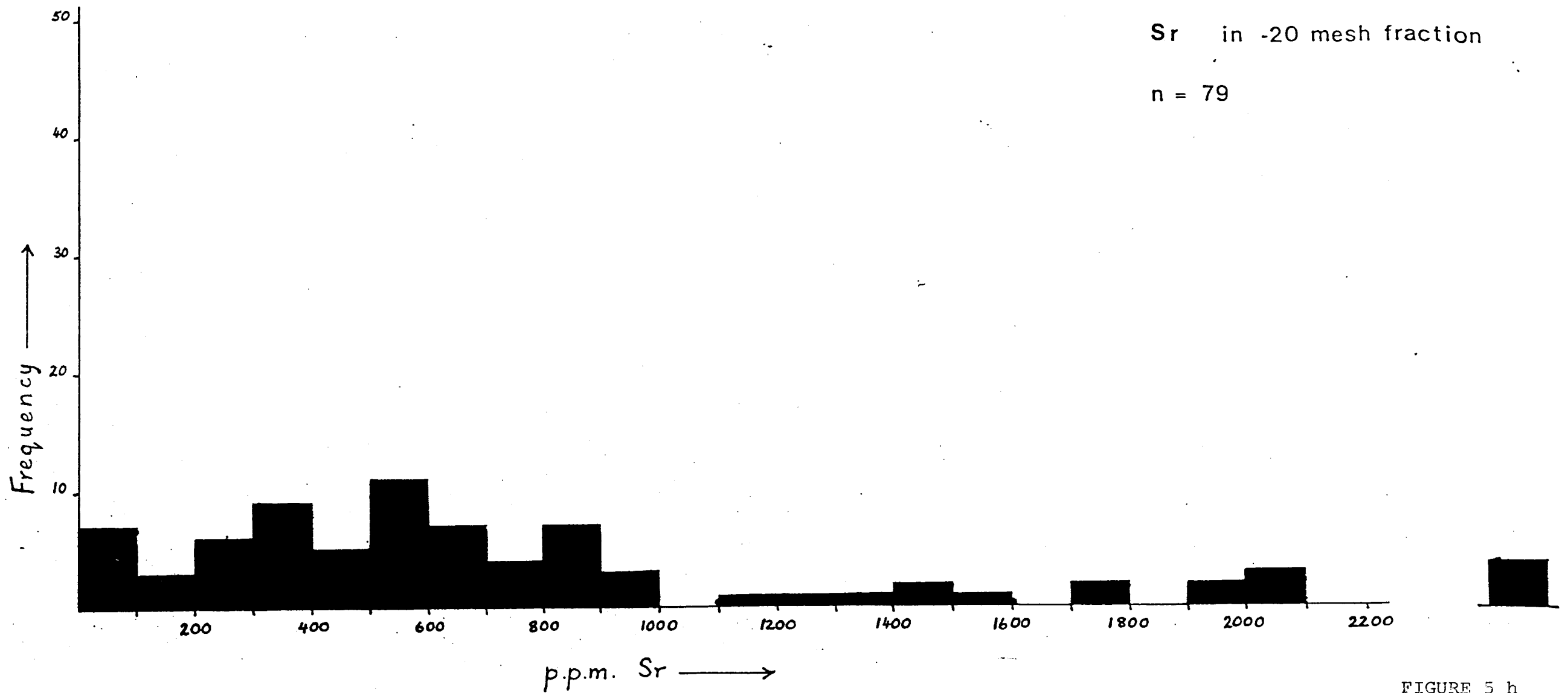
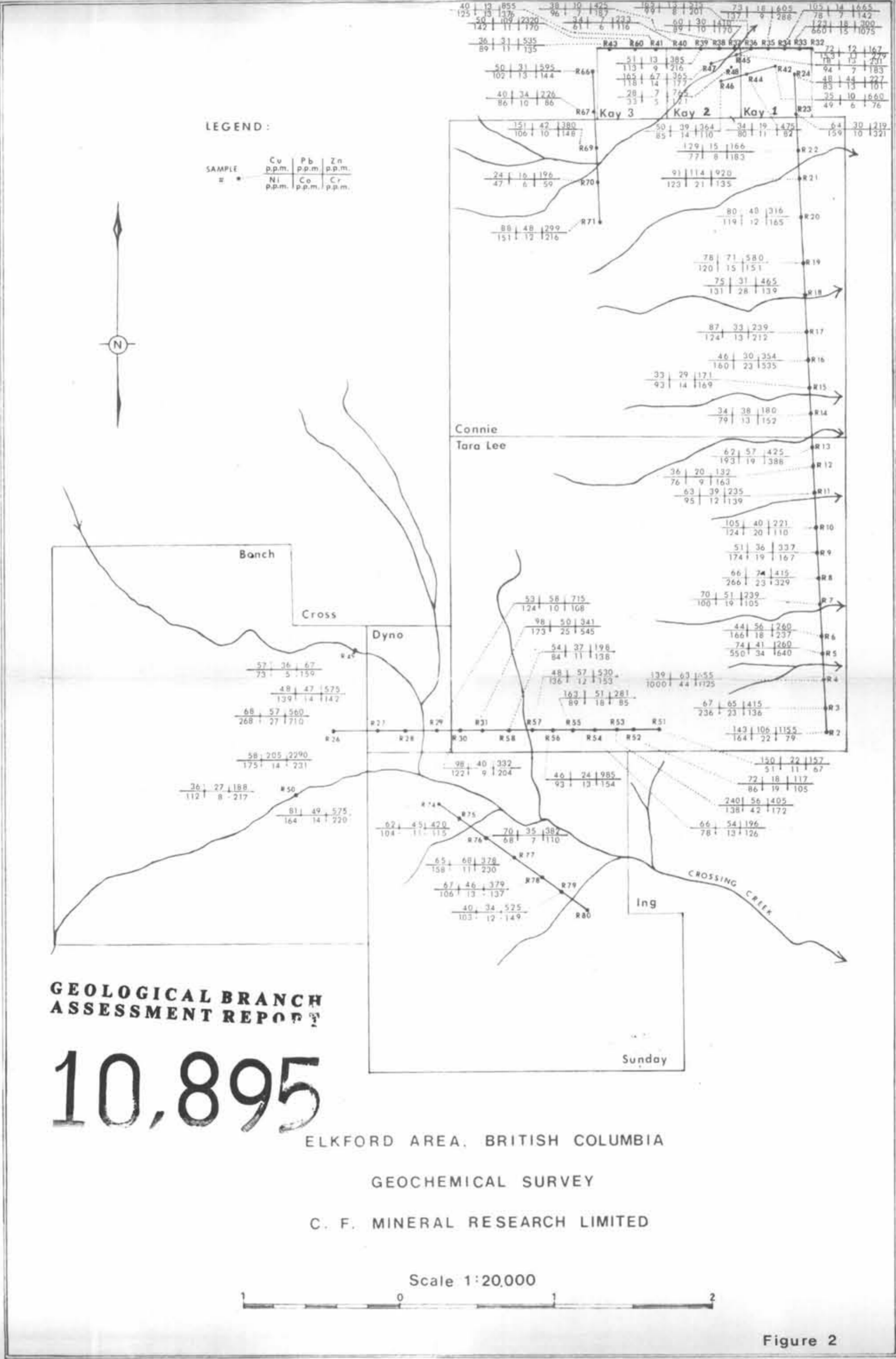
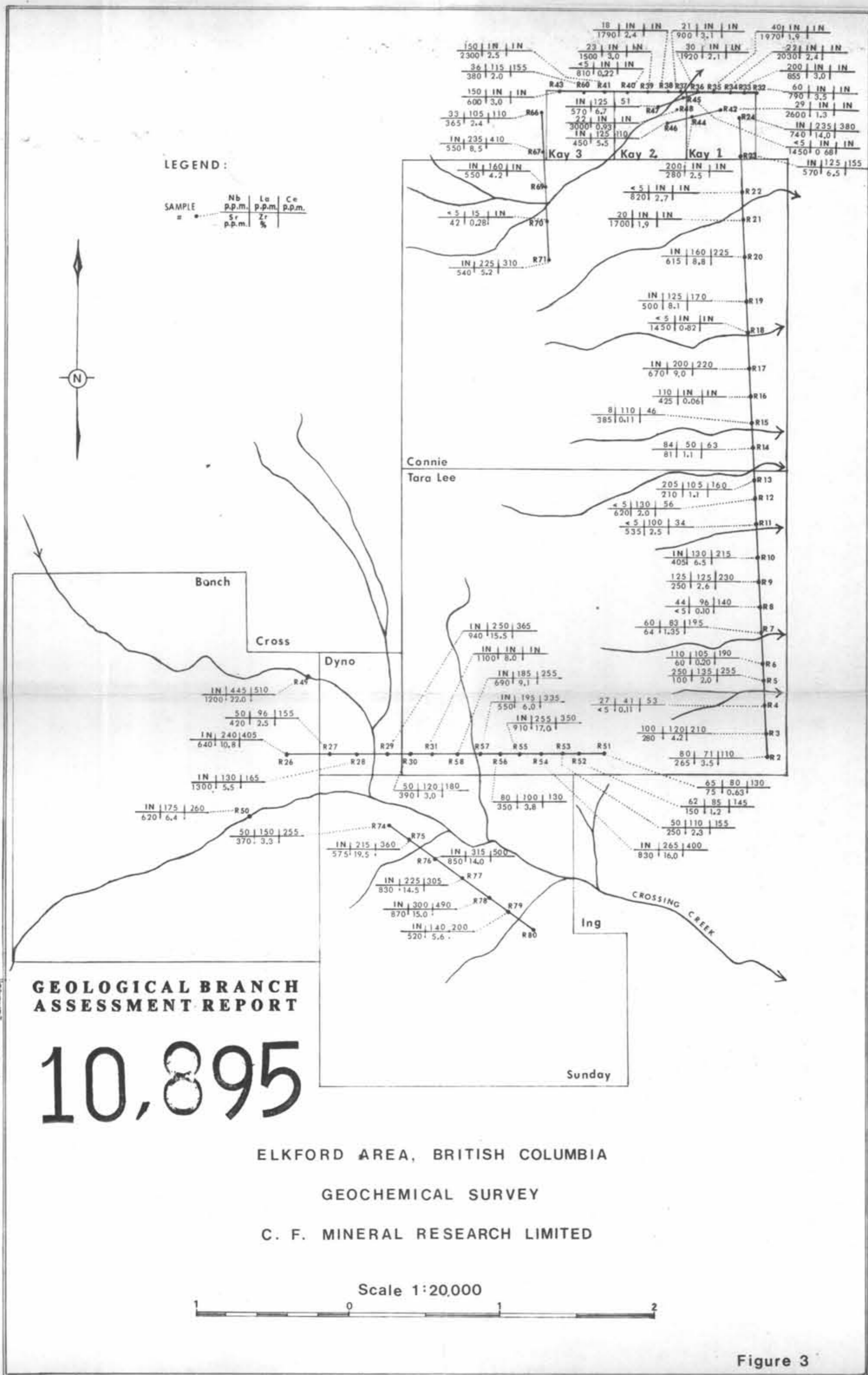


FIGURE 5 h





LEGEND:

| SAMPLE | Nb<br>p.p.m. | La<br>p.p.m. | Ce<br>p.p.m. |
|--------|--------------|--------------|--------------|
| "      | Sr<br>p.p.m. | Zr<br>%      |              |

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**10,895**

ELKFORD AREA, BRITISH COLUMBIA  
GEOCHEMICAL SURVEY  
C. F. MINERAL RESEARCH LIMITED

Scale 1:20,000

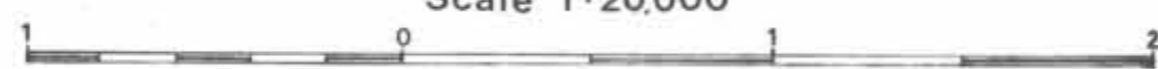


Figure 3

