A REPORT ON A GEOCHEMICAL AND TOPOGRAPHIC SURVEY

CONDUCTED BY INTERNATIONAL MINE SERVICES LTD.

FOR GREAT HORN MINING SYNDICATE INC.

ON MINERAL CLAIMS

PEAK 1 - 203

DAY 1 - 4

MINERAL LEASE - M-22

LIGHTNING PEAK AREA, VERNON MINING DIVISION

LATITUDE 49 47'

LONGITUDE 118 31'

BY

J.L. TINDALE, B.Sc., GEOLOGIST

FIELD WORK: May 20 - Oct.31, 1968

01812

March 25/1969
Toronto, Ontario

SUMMARY

Anomalous Values for Soil Samples in parts per million.

Over Metasedimentary & Metavolcanic Bedrock.

Copper	> 98
Lead	> 59
Zinc	> 190
Silver	> 4.9

Over Granitic Bedrock

Copper	> 70
Lead	> 44
Zinc	> 145
Silver	> 3.7

Total samples taken 10,186

TABLE OF CONTENTS

LIST OF MAPS

1. Location Map - Scale: 1" = 64 miles

2. Peak Claim Group - Scale: 1" = 1000'

3. Topographic Map of Lightning Peak Area - Scale: 1" = 1000'

4. Photomosaic of Lightning Peak Area - Scale 1" = 1000' Showing Photo Points

5. Peak Claim Group as surveyed by McElhanney showing Soil Samples for Zn, Cu, Ag, Pb, (6 maps; 4 elements per map) - Scale: 1" = 200'

6. Detailed Soil Sampling over Payday Adit Area (4 maps) Scale: 1" = 25'

INTRODUCTION

This report describes a geochemical and topographic survey carried out by International Mine Services Ltd., for Great Horn Mining Syndicate Inc. on the Lightning Peak property in southern British Columbia. The work was performed during the months of June, July, August and September of 1968, with a complement of nine permanent staff augmented by a surveying crew from McElhanney Associates and a soil sampling crew by Geotronics Surveys, both under contract to International Mine Services Ltd.

PROPERTY HOLDINGS

International Mine Services Ltd., supervised the staking of 203 claims during the spring of 1968. These claims were staked as a regular contiguous block upon deep snow conditions. It was realized at the time that certain crown grant claims and certain location claims would be covered during the course of this staking and that only fractions would be retained about areas of prior rights. Rather than attempt to delineate and confine all fractions which in most cases would require a legal survey the company decided early in its exploration program to treat this block as a singular entity and not attempt to correct irregularities which had little bearing on the primary project of locating mineral deposits.

The four Day claims were staked on 29 July 1968 to cover ground which was previously staked. A mining lease No. M22 comprising 44.4 acres was acquired in August of 1968.

All claims are registered in the name of Great Horn Mining Syndicate Inc., holder of Mining Licence No. 75306, British Columbia.

Claims		Record No's.	Expiry Date
Peak #1	- Peak #200 incl.	891801-892000 incl.	May 1, 1969
Peak #201	- Peak #203 incl.	892111-892113 incl.	May 1, 1969
Day #1	- Day #4 incl.	897092-897095 incl.	July 28, 1969

Mining Lease No. M22 (Jim Hill Lot 3416 & West Fork Lot 3415) Nov. 27, 1969

GENERAL DESCRIPTION OF PROPERTY AND ACCESS

The Lightning Peak area is located in the Monashee Mountains of southern B.C., in the headwaters of the Kettle River, between the city of Vernon and the town of Needles. Lightning Peak is the dominant physiographic feature of the area and lies within the claim group staked by International Mine Services. It has a latitude of 49° 47' 32" north and a longitude of 118° 31' 45" west. Magnetic declination is 23 degrees east.

Although the elevation of Lightning Peak is 7035 feet, elsewhere, elevations range between 5700 feet and 6200 feet. The area is best described as being a wooded upland plateau of moderate relief. It is mantled by glacial till of varying thickness interspersed with swampy areas. Less than ten per cent of the area is exposed as outcrop.

Despite its' southerly location, climatic factors, and elevation combine to restrict the snow-free season to about three months. Snow generally leaves the property in early July, and can be expected again in late September. Because of its' location, sudden , heavy, falls of snow are common in the fall,

and field crews would be well advised to take the likelihood of these into account when working in the area. Snow accumulates to a depth of about five feet during the winter months.

Wildlife is abundant, with deer, grouse and bear predominating. The local bear population is both opportunistic and crafty. Because of our reluctance for unscheduled nightime encounters, two of their number had to be permanently discouraged from further participation in camp life.

Access to the property is by two lane paved road sixty miles east from Vernon along Highway #6 to Inonoaklin Crossing, thence by logging road south about seventeen miles to the Waterloo campsite. This latter road is in poor repair and while passable in dry weather for two thirds of its length by two-wheel-drive vehicles, four-wheel-drive transportation is to be preferred.

HISTORY

The Lightning Peak area has a history of sporadic prospecting and development dating back to the late nineteenth century when the Rampalo camp was established. More recently, adits were driven, trenching was done, and in some cases shafts were sunk on some of the other local showings. Of these latter, the major work was done on the Waterloo AU, Lightning Peak Claim Group, and the Payday-Paycheck areas.

A fairly complete record of the work done on these showings is contained in reports of the British Columbia Minister of Mines. Rather than repeat it here the reader is directed to the references as listed in the attached bibliography.

REGIONAL GEOLOGY

The geology of the area is well known and will not be described in detail here. For an excellent treatment see C.E. Cairnes' report on the Lightning Peak Area extracted from the Geological Survey of Canada's Summary Report, 1930, Part A.

Generally speaking, the Peak and Day Claim Group is staked to cover a roof pendant of metasedimentary and meta-volcanic rocks. These have been invaded by what is termed the "Nelson Batholith", a coarsely crystalline rock of granitic composition. The metasediments are highly altered and have been intruded by post-batholithic quartz and quartz porphyry dykes. From the standpoint of mineral exploration, these acidic dykes, often mineralized with sulphides, and their associated shear zones, were the principle targets for preliminary evaluation during the 1968 field season.

THE TOPOGRAPHIC SURVEY

McElhanney Surveying and Engineering Ltd., of Vancouver, B.C., were commissioned in June to prepare a topographic control map of the property to assist geochemical surveying and geological mapping.

The method involved was to utilize government air photos which were aerotriangulated (a continuous relative orientation procedure which assures high internal consistency as to scale and elevation) and adjusted to control points scaled from the 1:50,000 government mapping.

The mapping was compiled directly at the map scale of 1000 feet per inch with 50 foot contour and in addition showed

all planimetric features such as roads, trails, streams, edges of major vegetation changes etc. In addition a number of "photo points" - features which could be readily identified on the photographs such as lone trees, rock outcroppings, stream junctions etc. were selected and these points were plotted on the mapping and annotated on the photography.

This map and the photos were then taken to the field by McElhanney and all claim posts were tied in with the photo points. The claim location lines were then surveyed and chained utilizing Brunton comprass transit for directional control. These location lines and claim posts were then plotted at a scale of 1 inch to 200 feet scale and planimetric features were superimposed.

This method of obtaining a fairly accurate base map proved to have many advantages over the conventional "line-cutting grid" procedure. It was cheaper, more accurate, and faster than physically cutting lines through the heavy tree growth present at Lightning Peak. It served our exploration purposes very well.

THE GEOCHEMICAL SURVEY

Survey Procedure

The survey was carried out under contract to Geotronics Surveys of South Burnaby, B.C. The number of crews working on the survey varied from two to three, with two men per crew, and up to eight men on the property at one time.

The grid was laid out in conjunction with the pre-existing picketed chain lines (McElhanney's location lines)

running north-south. These lines, 2800 feet apart were used as sub-base lines to which the soil sample lines were perpendicular, running east-west. The soil sample lines were 400 feet apart with soil samples being collected every 100 feet. The lines were compassed and chained with a nylon chain and the stations were marked and numbered with red flagging tape to distinguish from the fluorescent orange used on the chain lines.

The soil horizon sampled was the "B", which in this area was a reddish brown colour. In some places, samples could not be collected due to talus slides on bedrock and in other places either the A or C horizon were sampled since B was not obtainable. Samples were taken at a depth of one foot by use of a shovel, discarding the coarser rock debris and retaining the finer soil fraction.

Method of Soil Analysis

The samples, in the bags in which they were collected were hung to dry at a temperature of approximately 100° F. Sifting of the dry materials was done through on 80 mesh screen. A sufficient amount of sample was then packaged and sent to T.S.L. Laboratories, 325 Howe Street, Vancouver, B.C. and analysed for copper, silver, lead and zinc utilizing the hot HCI-acid extraction method.

Results of Geochemical Survey

A total of 10,186 samples were assayed for the four elements and histograms were constructed to determine anomalous values. Because of the existence of both acidic rocks (granites) and basin rocks (metavolcanics and metasediments) within the claim group, two sets of histograms were constructed. Samples taken over granitic bedrock were grouped separately from those taken

over metasedimentary and metavolcanic rocks. Significantly, the anomalous values as derived from log normal curves are also different. For all four elements tested the values beyond which concentrations are judged to be anomalous are higher in the metasediments than they are in the granitics. These results are tabulated as follows:

Bedrock	Base Anomalous Values in Parts Per Million (ppm)			
	Copper	Lead	Zinc	Silver
Granitic rocks	70	44	145	3.7
Meta-volcanic and sediments	98	59	190	4.9

Histograms are included in this report see Appendix A.

The locations of the geochemical anomalies were plotted on the one inch to 200 feet plan of the claim group as surveyed by the McElhanney crew. In most cases, they merely confirm the location of known showings, and hence provide no new information. However, some of the anomalies appear in areas of no known previous work and deserve detailed examination on the ground. For convenience sake, a more manageable map of the claim group at a scale of one inch to five hundred feet has been drawn up and the anomalies plotted on it. Geological field parties should be able to locate these anomalous soil samples to within a few feet, by a flagging tape marking the sample location. They should keep in mind, however, the relative mobility of the metal ions, and hence any elevation of the anomalies should take into account the variables of local drainage, slope, and groundwater movement. Sometimes, in an area with as long a history of prospecting as the Lightning Peak, abnormally high metal ion concentrations will evoke enthusiastic speculation

amongst field crews, until the cause is found; a copper implement, or galvanized pail left upslope of the "anomaly".

In an effort to delineate the zone of sulphide mineralization over the Payday adit, a detailed grid was cut with a north-south baseline 400 feet long located 75 feet west of the adit portal. Lines were run, 50 feet apart, and 200 feet east and west of the baseline with samples taken every 25 feet. A total of 161 samples were taken and assayed for four elements; copper, lead, zinc and silver. Histograms were constructed (Appendix B) and the grid contoured.

The results show that the strike length of the sulphide zone probably extends for 100 feet north and south of the adit.

CONCLUSIONS AND RECOMMENDATIONS

The topographic survey and geochemical survey carried out as part of the 1968 field program has served to build a basis for followup work during the 1969 season.

No large concentration of metals was revealed and it appears that the property contains no large body of mineralization. I must therefore conclude that there exists on the property only the shear and vein type zones as previously worked from surface exposures. An attempt must be made to obtain sufficient tonnage from one or a number of these to consider an economical production feasibility.

All anomalous results from the 1968 geochemical survey should be checked on the ground to determine if the results are coming from old workings. Anomalous results from

areas where no hint of old works exists should be detailed with a closely spaced soil sampling grid (i.e. 25 foot sample interval) in an attempt to illuminate trends and possible source. Particular attention should be placed to areas where clusters of anomalies occur.

At the Payday adit it would appear several short drill holes will be necessary to delineate the small shoot indicated by the geochemical survey and other methods.

Respectfully submitted:

March 25/1969
Toronto, Ontario

J.L. Tindale, B.Sc., Geologist

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1. Cairnes, C.E. - Lightning Peak Area, Osoyoos Dist., B.C. G.S.C. Summary Report 1930 Part A.

2. British Columbia Minister of Mines Reports - Lightning Peak Camp, 1904, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1925, 1927, 1929, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1939, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955.

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6. Mahon, R.B., - Reports on Exploration 1964 for Northern Exploration Ltd. - Private Reports.

7. Weeks, J.P., - Geochemical Report on the Horo Group of Claims Lightning Peak. For Bralorne Pioneer Mines Ltd., Assessment Files B.C. Dept. of Mines.

STATEMENT OF QUALIFICATIONS

I, J.L. Tindale, of the City of Toronto, in the Province of Ontario, do hereby certify as follows:-

1. That I graduated from McMaster University in 1956 with the degree of Bachelor of Science in Honours Geology, and that I have been a practising Geologist since that date.

2. That I am a Fellow of the Geological Association of Canada.

3. That I am the Chief Geologist of International Mine Services Ltd., and as such supervised the program carried out at Lightning Peak for the Great Horn Mining Syndicate during the summer of 1968.

4. That I have visited the property several times during the course of this work and have gathered and read all the reports listed in the attached bibliography.

March 25/1969
Toronto, Ontario

J.L. Tindale, B.Sc.,
Geologist

APPENDIX A

Frequency Distributions of

Copper, Lead, Zinc, and Silver ion concentrations

on the Lightning Peak Claim Group

APPENDIX B

Frequency Distribution of

Copper, Lead, Zinc, and Silver ion concentrations

in the Payday Adit Area.

SUMMARY

Anomalous Values for Soil Samples in parts per million

(Taken from regional grid)

Over Metasedimentary & Metavolcanic Bedrock

Copper	> 98
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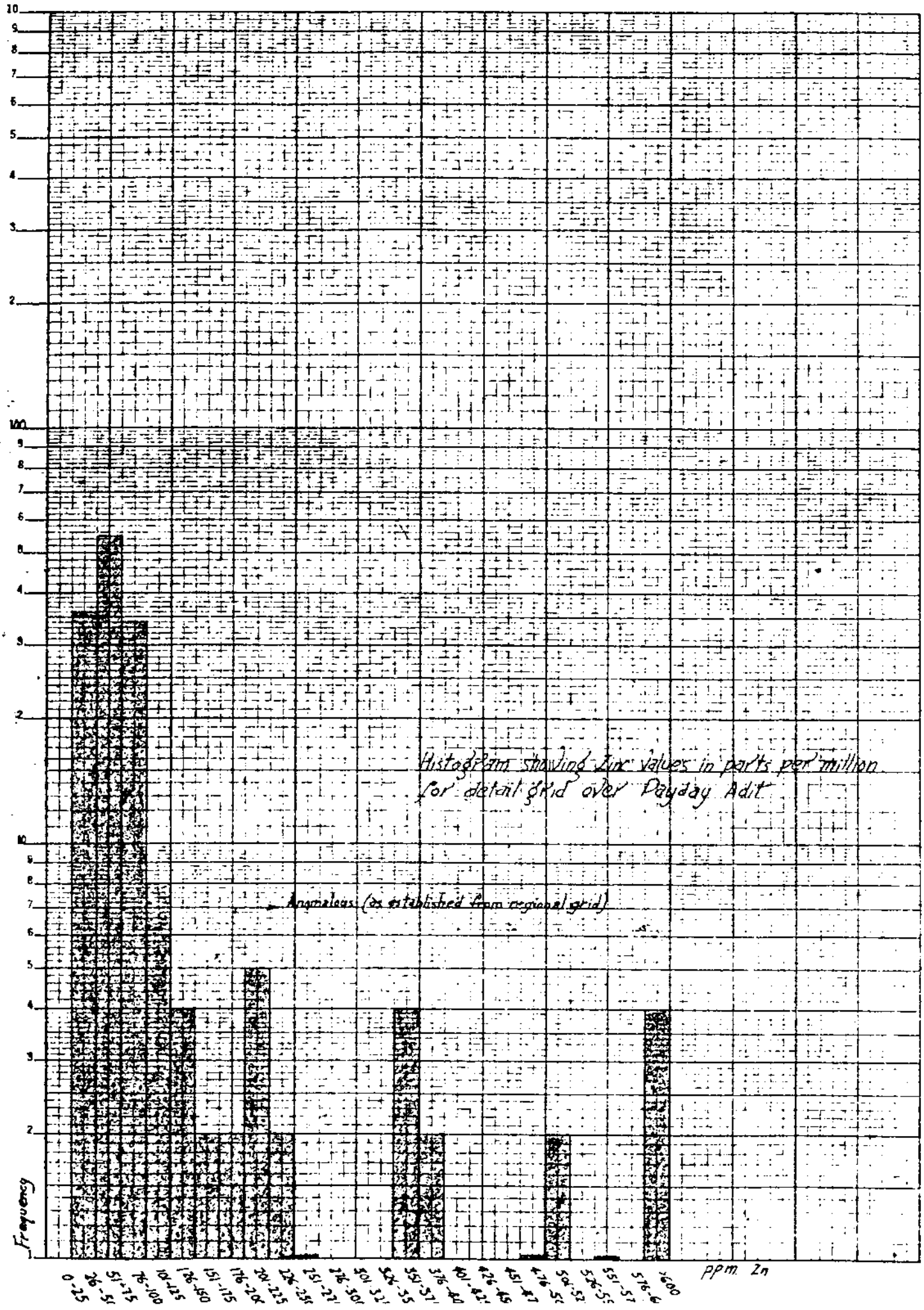
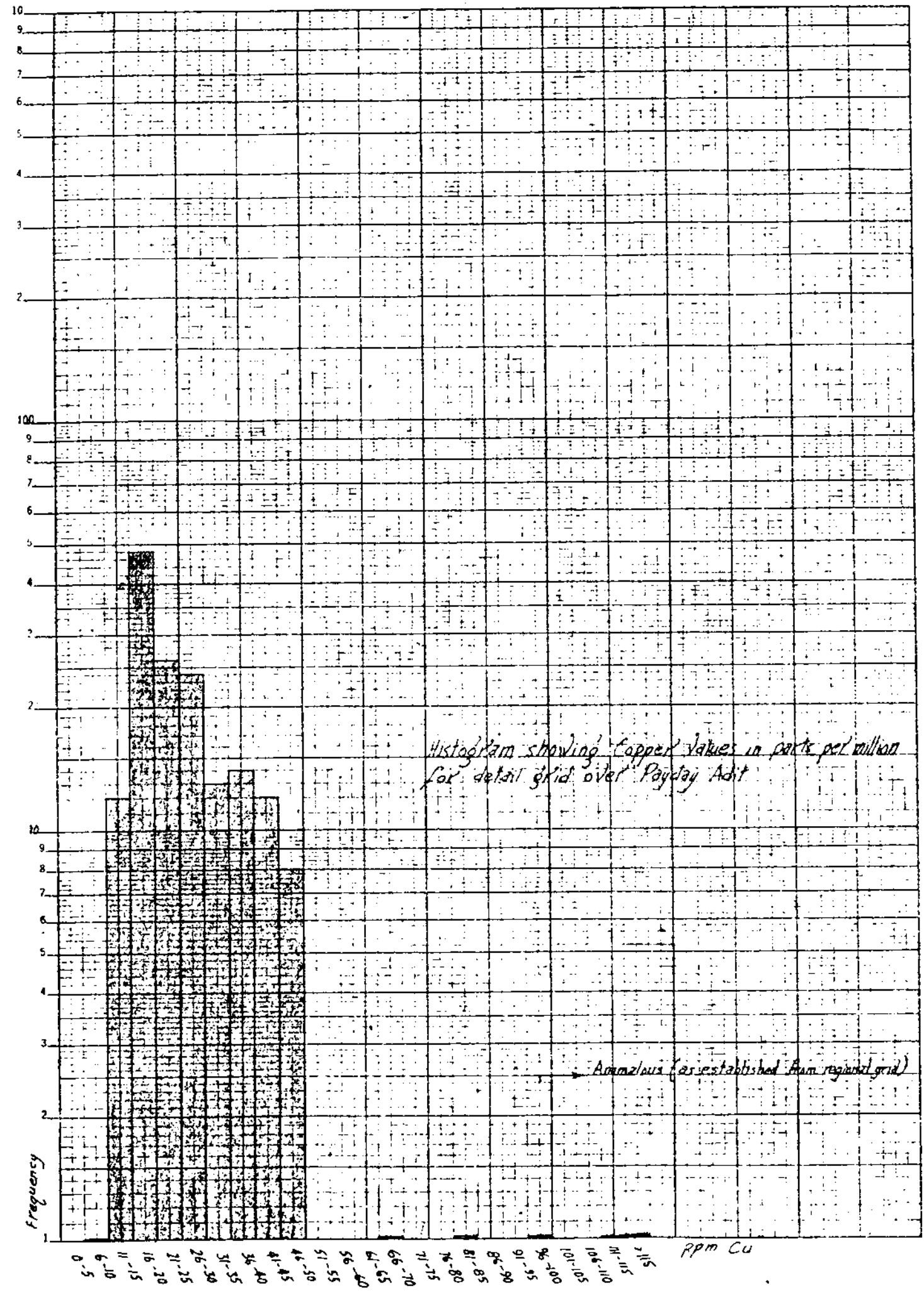
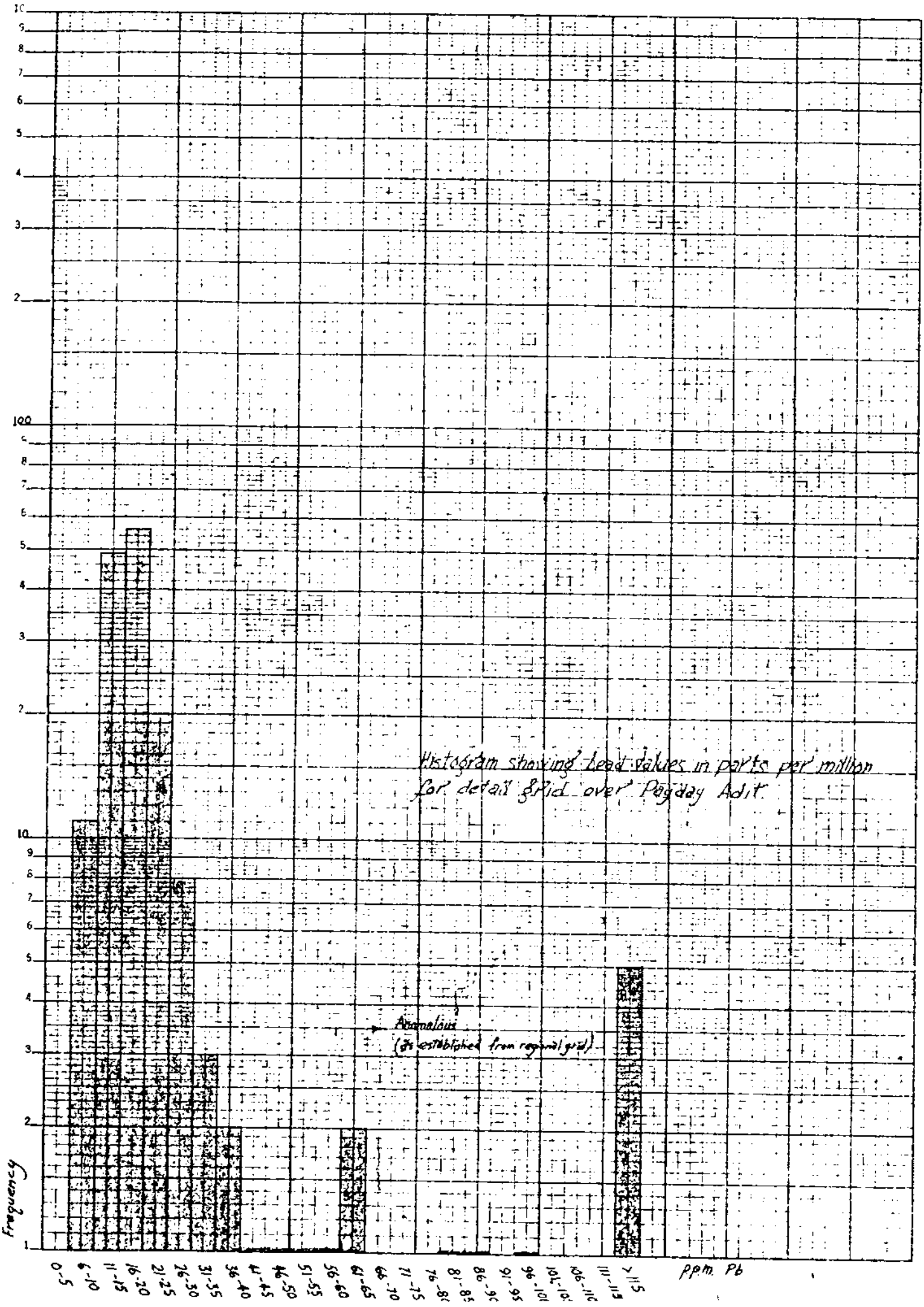
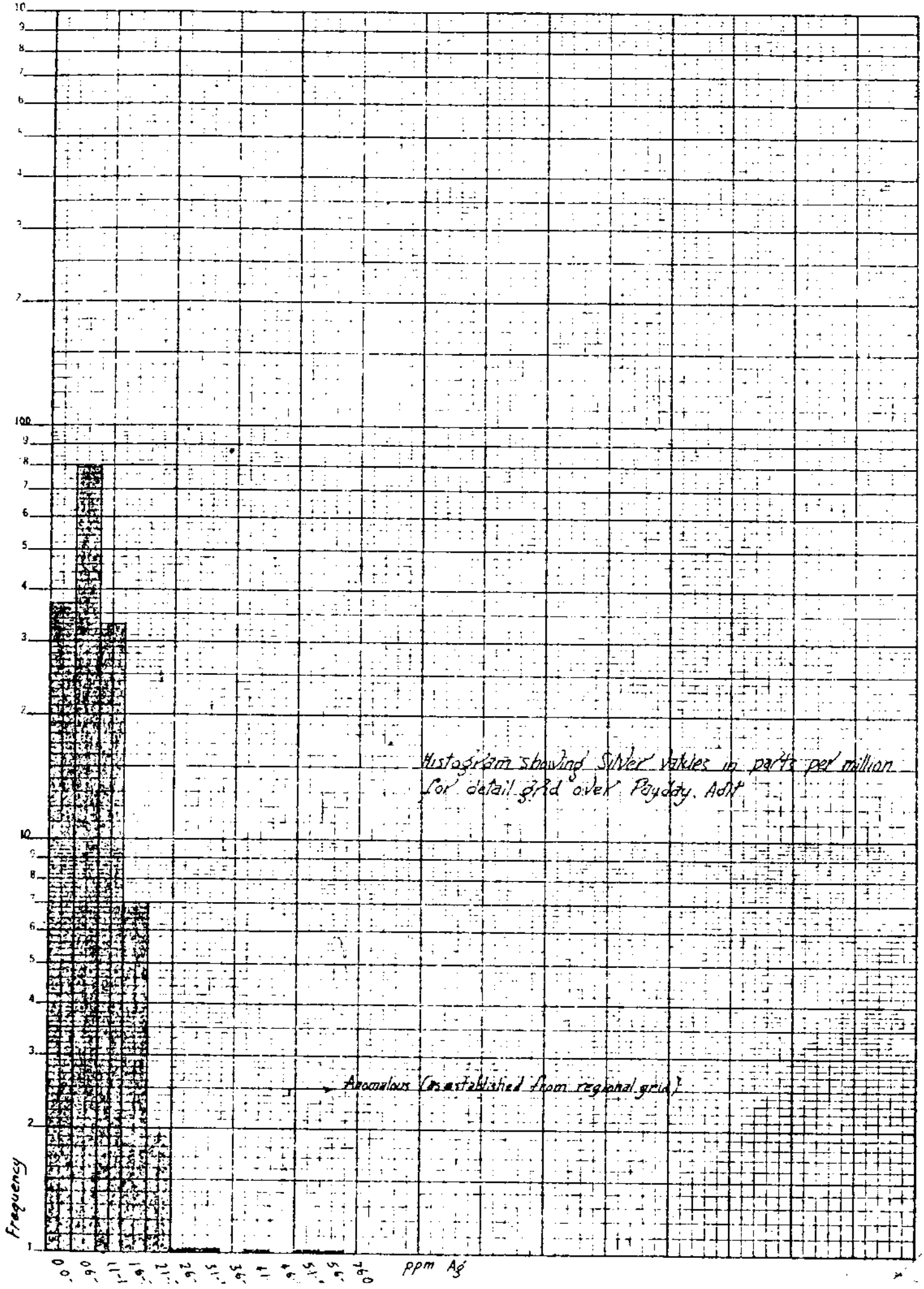
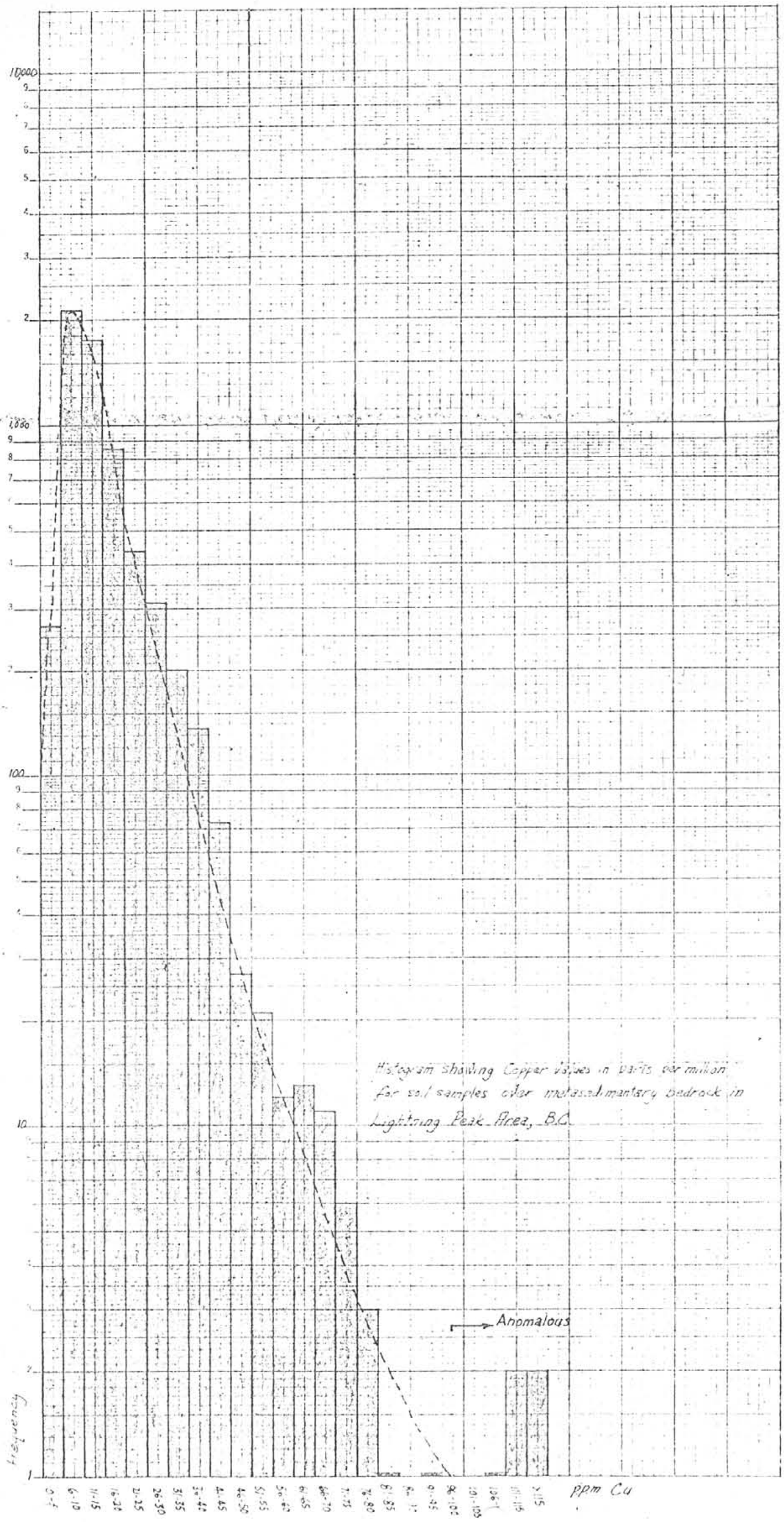

Histogram showing Zinc values in parts per million for detail grid over Payday Adit
Anomalous (as established from regional grid)
Frequency
ppm Zn
0-25
26-50
51-75
76-100
101-125
126-150
151-175
176-200
201-225
226-250
251-275
276-300
301-325
326-350
351-375
376-400
401-425
426-450
451-475
476-500
501-525
526-550
551-575
576-600
>600


Histogram showing Copper Values in parts per million for detail grid over Payday Adit
Anomalous (as established from regional grid)
Frequency
Ppm Cu
0-5
6-10
11-15
16-20
21-25
26-30
31-35
36-40
41-45
46-50
51-55
56-60
61-65
66-70
71-75
76-80
81-85
86-90
91-95
96-100
101-105
106-110
111-115
>115



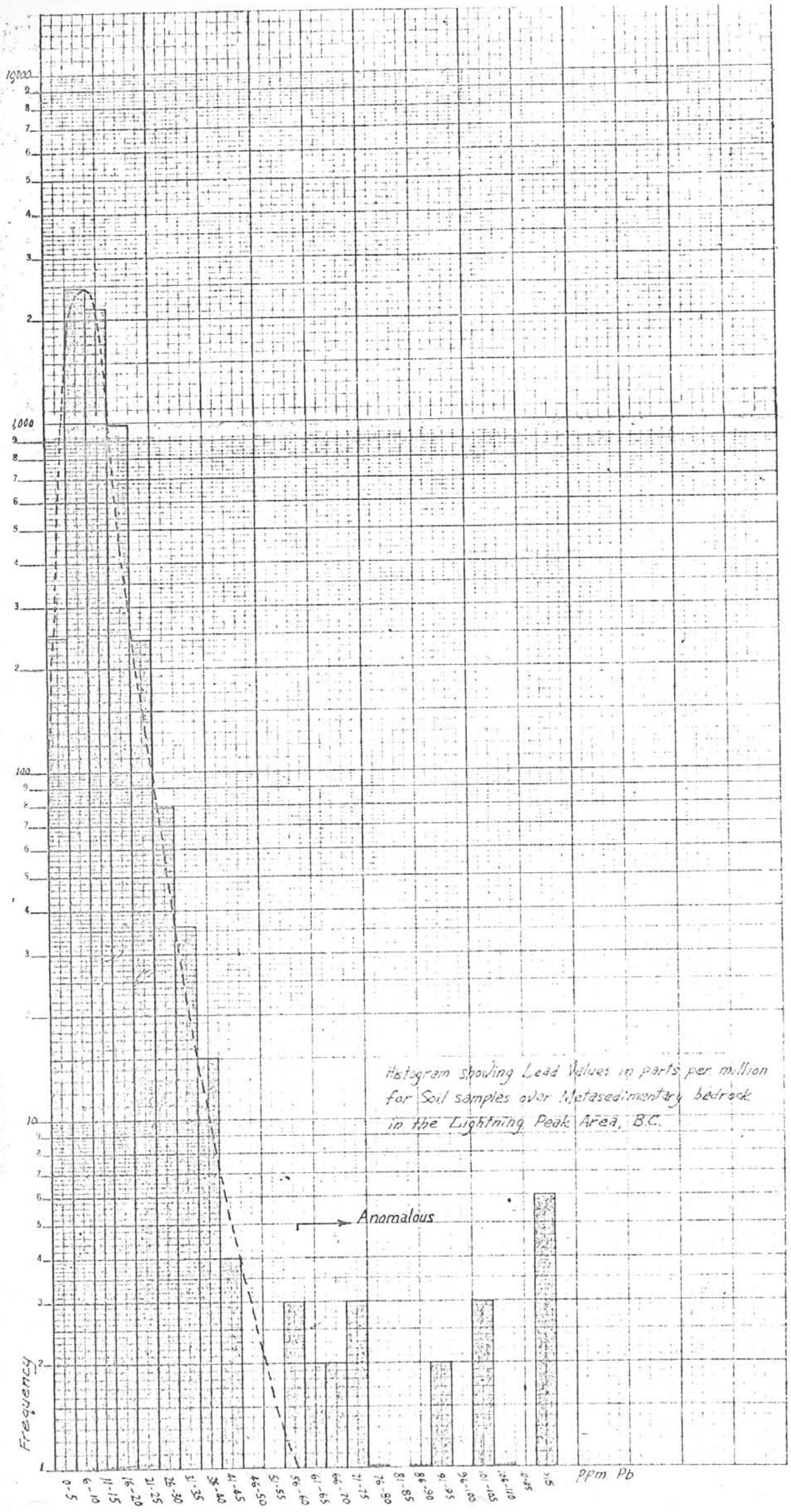


Histogram showing Silver values in parts per million for detail grid over Payday, Adit

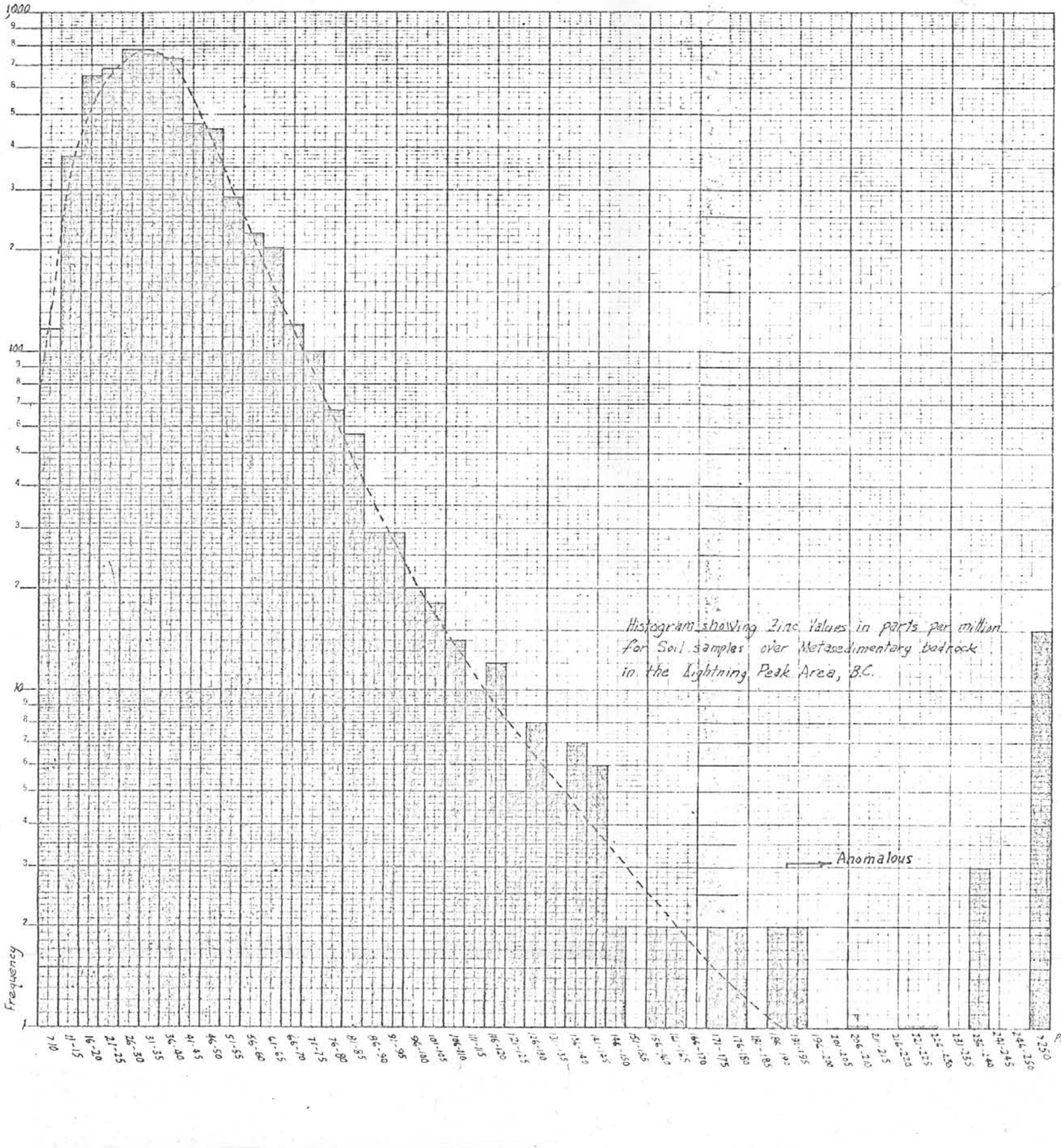


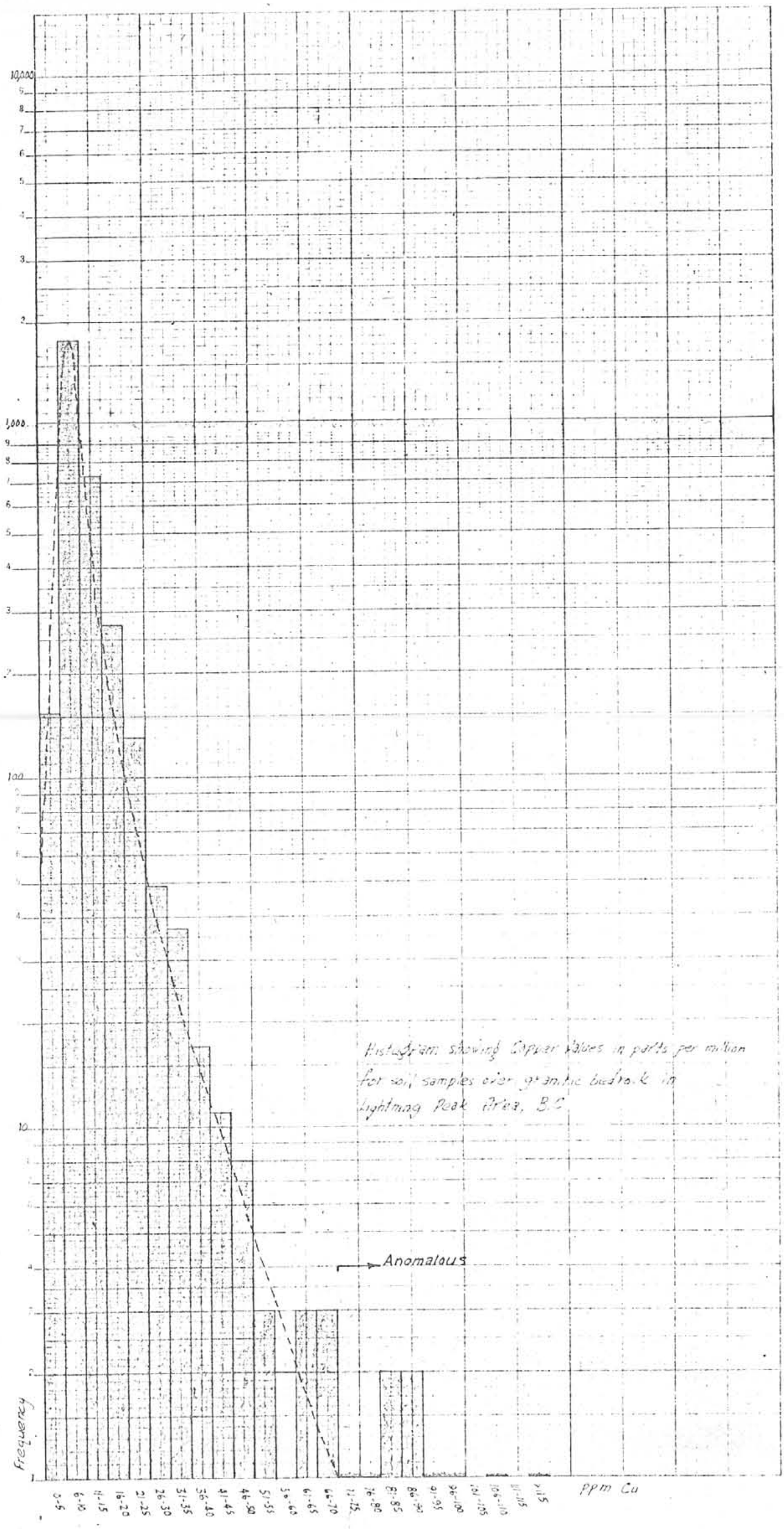
Histogram showing Copper values in parts per million for soil samples over metasedimentary bedrock in Lightning Peak Area, B.C.

K&E SEMI-LOGARITHMIC 46 5493
3 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO.

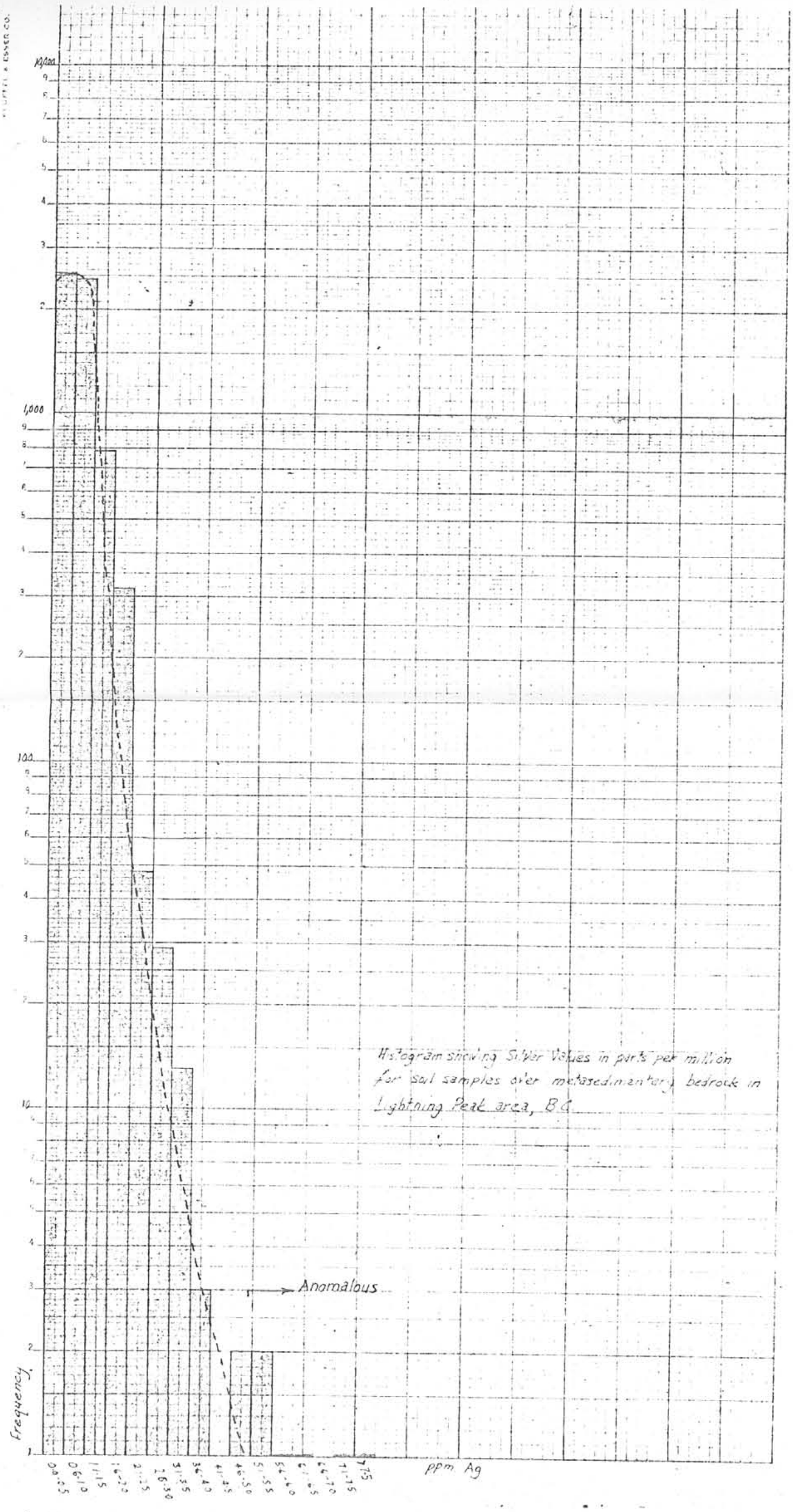


Histogram showing Lead Values in parts per million for Soil samples over Metasedimentary bedrock in the Lightning Peak Area, B.C.





Histogram showing Copper values in parts per million for soil samples over granitic bedrock in Lightning Peak Area, B.C.



Histogram showing Silver Values in parts per million for soil samples over metasedimentary bedrock in Lightning Peak area, BC

K&E SEMI-LOGARITHMIC 46 5493
KEUFFEL & ESSER CO.

K&E SEMI-LOGARITHMIC 46
3 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO.

Frequency

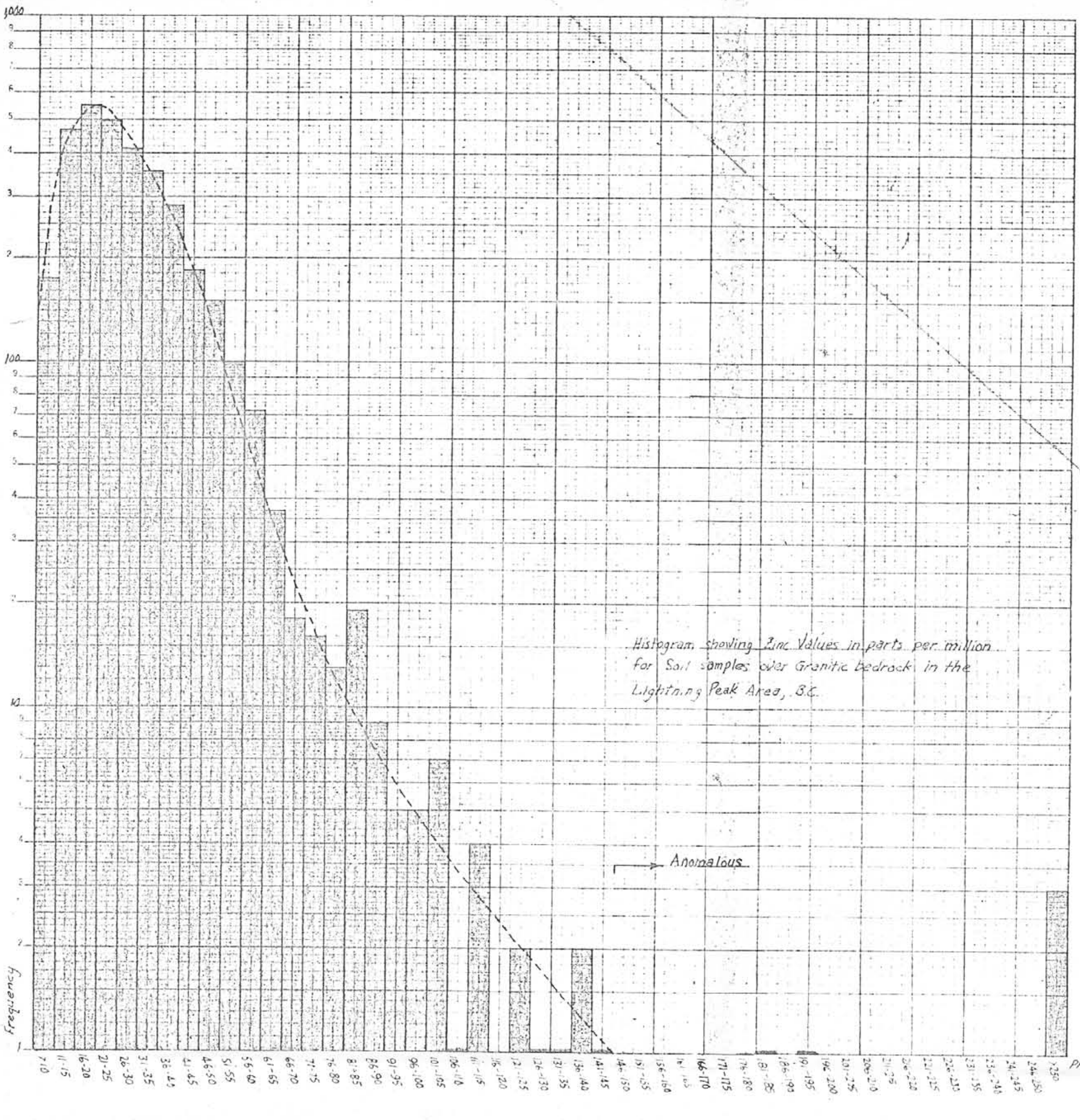
1 2 3 4 5 6 7 8 9 10 | 1 2 3 4 5 6 7 8 9 100 | 1 2 3 4 5 6 7 8 9 1,000 | 1 2 3 4 5 6 7 8 9 10,000

0-5
6-10
11-15
16-20
21-25
26-30
31-35
36-40
41-45
46-50
51-55
56-60
61-65
66-70
71-75
76-80
81-85
86-90
91-95
96-100
101-105
106-110
111-115
>115

ppm Pb

Anomalous

Histogram showing Lead Values in parts per million
For Soil Samples over Granite bedrock in the
Lightning Peak Area, B.C.



Histogram showing Zinc Values in parts per million for Soil samples over Granitic bedrock in the Lightning Peak Area, B.C.

K+E SEMI-LOGARITHMIC 46 5493
KEUFFEL & ESSER

K+E SEMI-LOGARITHMIC
3 CYCLES X 10 DIVISIONS
KEUFFEL & ESSER CO.

Frequency

Anomalous RPm Ag

Histogram showing Silver Values in parts per million for soil samples over granitic bedrock in the Lightning Peak Area, B.C.

PEAK 108
PEAK 133
PEAK 134
PEAK 159
PEAK 160
PEAK 203
PEAK 152
PEAK 158
PEAK 202
PEAK 107
PEAK 131
PEAK 132
Granitic Rhyolite
PEAK 106
PEAK 129
PEAK 130
PEAK 155
PEAK 156
PEAK 201
PEAK 127
PEAK 128
PEAK 104
PEAK 153
PEAK 154
PEAK 179
PEAK 180
PEAK 199
PEAK 200

CAUTION
45%
OF ORIGINAL SIZE

Cu
Pb
Zn
Ag
values in ppm
swampy area
approx. road location
trench, shaft or pit
mine adit

LEGEND

Anomalous value
Background value

CAUTION
45%
OF ORIGINAL SIZE

INTERNATIONAL MINE SERVICES LTD.
GEOCHEMICAL SURVEY - PEAK CLAIMS
VERNON M.D. BRITISH COLUMBIA
Scale: 1in = 200 ft. Aug. - Sept. 1969
SURVEY and GRID MAPPING - GEOTRONICS SURVEYS
GEOCHEM. ANALYSIS - T-S-L hot HCL acid extraction

NOTE: 1. To accompany a geochemical & topographic report by J.L. Tibbles on the Peak claim group Lightning Peak Area, Vernon Mining division dated March 23, 1970

KEY MAP

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1812 MAP 1

McELHANNEY SURVEYING & ENGINEERING LTD.


PEAK 7
PEAK 8
PEAK 25
PEAK 43
PEAK 44
PEAK 5
PEAK 6
PEAK 41
PEAK 42
PEAK 63
PEAK 64
PEAK 83
PEAK 84
PEAK 103
PEAK 23
PEAK 24
PEAK 61
PEAK 62
PEAK 81
PEAK 82
PEAK 101
PEAK 59
PEAK 60
PEAK 79
PEAK 80
PEAK 99
PEAK 21
PEAK 22
PEAK 3
PEAK 4
PEAK 39
PEAK 40
PEAK 1
PEAK 2
PEAK 19
PEAK 20
PEAK 37
PEAK 38
PEAK 57
PEAK 58
PEAK 77
PEAK 78
PEAK 55
PEAK 56
PEAK 75
PEAK 76
PEAK 97
PEAK 95
PEAK 17
PEAK 18
PEAK 35
PEAK 36
PEAK 15
PEAK 16
PEAK 33
PEAK 34
PEAK 53
PEAK 54
PEAK 73
PEAK 74
PEAK 93
Metaseds.
Granitics
CABIN
CAUTION
45%
OF ORIGINAL SIZE
INTERNATIONAL MINE SERVICES LTD.
GEOCHEMICAL SURVEY - PEAK CLAIM GROUP
VERNON M.D. BRITISH COLUMBIA
Scale: 1 in = 200 ft. Aug.-Sept. 1968.
SURVEY and GRID MAPPING - GEOTRONICS SURVEYS.
GEOCHEM. ANALISIS - T.S.L. Hot HCL Acid extraction
4
MAP # 5. To accompany a geochemical & topographic report by J.L. Tindale on the Peak claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1969
LEGEND
Denotes outer claim boundary
Denotes chained location line
Denotes sheet boundary
Denotes claim post
Denotes stationed picket or soil sample
Cu Pb Zn Ag Denotes values in p.p.m.
Denotes swampy area
Denotes approx road location
or Denotes trench or shaft or pit
Denotes mine adit
Anomalous value
Below anomalous value but of interest
Cu.
Pb
Zn.
Ag
Department of Mines and Petroleum Resources
NO 1812 2
McELHANNEY SURVEYING & ENGINEERING LTD.
CAUTION
45%
OF ORIGINAL SIZE

CAUTION 45% OF ORIGINAL SIZE
MAP # 5. To accompany a geochemical & topographic report by J.L. Tindale on the Peak claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1969.
INTERNATIONAL MINE SERVICES LTD.
GEOCHEMICAL SURVEY - PEAK CLAIMS
VERNON M.D. BRITISH COLUMBIA
Scale: 1in = 200 ft.
Aug.- Sept. 1968
SURVEY and GRID MAPPING - GEOTRONICS SURVEYS
GEOCHEM ANALYSIS - T·S·L· hot HCL acid extraction
T.W.R.
LEGEND
denotes outer claim boundary.
denotes chained location line.
denotes sheet boundary
denotes claim post.
denotes stationed o-set.
Cu Pb Zn Ag values in ppm.
swampy area
approx. road location
trench, shaft, or pit
mine adit
Anomalous value
Below anomalous value but of interest
Cu
Pb
Zn
Ag
Department of Mines and Petroleum Resources
1812
3
McELHANNEY SURVEYING & ENGINEERING LTD.
1" = 200'
PEAK 102
PEAK 125
PEAK 126
PEAK 151
PEAK 152
PEAK 177
PEAK 178
PEAK 197
PEAK 198
PEAK 100
PEAK 123
PEAK 124
PEAK 149
PEAK 150
PEAK 175
PEAK 176
PEAK 195
PEAK 196
PEAK 98
PEAK 121
PEAK 122
PEAK 147
PEAK 148
PEAK 173
PEAK 174
PEAK 193
PEAK 194
PEAK 96
PEAK 119
PEAK 120
PEAK 145
PEAK 146
PEAK 171
PEAK 172
PEAK 191
PEAK 192
PEAK 94
PEAK 117
PEAK 118
PEAK 143
PEAK 144
PEAK 169
PEAK 170
PEAK 189
PEAK 190
LAKE
Granitics
Metasediments
PEAK ROAD
RAMPOLA ADIT

(4)

INTERNATIONAL MINE SERVICES LTD.
GEOCHEMICAL SURVEY-PEAK CLAIMS
VERNON M·D· BRITISH COLUMBIA
Scale: 1 in = 200 ft Aug.-Sept. 1968

SURVEY and GRID MAPPING - GEOTRONICS SURVEYS
GEOCHEM ANALYSIS - T·S·L· hot HCL acid extraction

MAP #5. To accompany a geochemical & topographic report by J.L. Tindale on the Peak claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1969

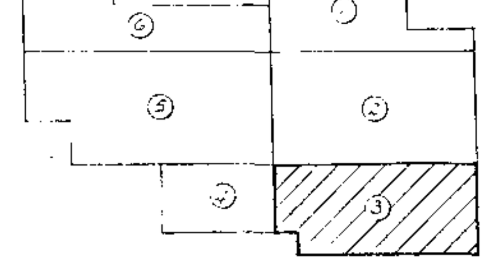
LEGEND

- denotes outer claim boundary.
- denotes chained location line.
- denotes sheet boundary
- denotes claim post.
- denotes stationed picket

Cu, Pb, Zn, Ag — values in p.p.m.

- swampy area
- approx. road location
- trench, shaft or pit
- mine adit

	Anomalous value	Below anomalous value but of interest
Cu		
Pb.		
Zn		
Ag		



McELHANNEY SURVEYING & ENGINEERING LTD.
Vancouver, B.C.

REV. NO.	DATE	REVISION	CH.	CH.	APP.

DESIGNED		SCALES HOR.	1" = 200'
DRAWN		VERT.	
CHECKED		DATE	
APPROVED		JOB NO.	
CLIENT DWG. NO.		MSEL DWG. NO.	REV.

PEAK 53 PEAK 54 PEAK 73 PEAK 74 PEAK 93

PEAK 51 30+00S PEAK 52 PEAK 71 30+00S PEAK 72 PEAK 91 30+00S

PEAK 49 PEAK 50 PEAK 69 PEAK 70 PEAK 89

PEAK 47 PEAK 48 PEAK 67 PEAK 68 PEAK 87

Granitic Metaseds

Metaseds Granitics

creek

Lightning Peak cairn

50+00S 60+00S 70+00S

MAP # 5. To accompany a geochemical & topographic report by J.L. Tindale on the Peak claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1969

INTERNATIONAL MINE SERVICES LTD.

GEOCHEMICAL SURVEY - PEAK CLAIM GROUP
VERNON MINING DIVISION - BRITISH COLUMBIA

Scale 1 in. = 200 ft. Aug. - Sept. 1968.

Survey and grid mapping -

Geochem. analysis - T.S.L. hot HCL acid extraction.

T.W.R.

CAUTION
50%
OF ORIGINAL SIZE

LEGEND

- denotes outer claim boundary.
- denotes chained location line.
- denotes sheet boundary.
- denotes claim post
- denotes stationed point or soil sample

Cu Pb Zn Ag — Values in p.p.m.

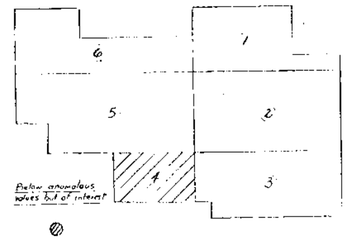
Swampy area

approx road location

trench, shaft or pit.

mine adit

	Anomalous values	Below anomalous values but of interest
Cu.	●	▨
Pb.	○	▨
Zn.		
Ag.	●	▨



N

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1812 5

REV NO. | DATE | REVISION | BY | CH | APP

McELHANNEY SURVEYING & ENGINEERING LTD.

DESIGNED | SCALES HOR. 1" = 200' VERT.
DRAWN | DATE
CHECKED | JOB NO.
APPROVED | DWG. NO.
CLIENT DWG. NO. | MSL DWG. | REV

INTERNATIONAL MINE SERVICES LTD.
GEOCHEMICAL SURVEY - PEAK GROUP
VERNON M.D. BRITISH COLUMBIA
Scale: 1in.= 200 ft. Aug.- Sept. 1968. (4)
SURVEY and GRID MAPPING - GEOTRONICS SURVEYS
GEOCHEM. ANALISIS - T.S.L. Hot HCL Acid Extraction

MAP # 5. To accompany a geochemical & topographic report by J. L. Findale on the Peak claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1969.

	Anomalous value	Below anomalous value but of interest
Cu.		
Pb.		
Zn.		
Ag		

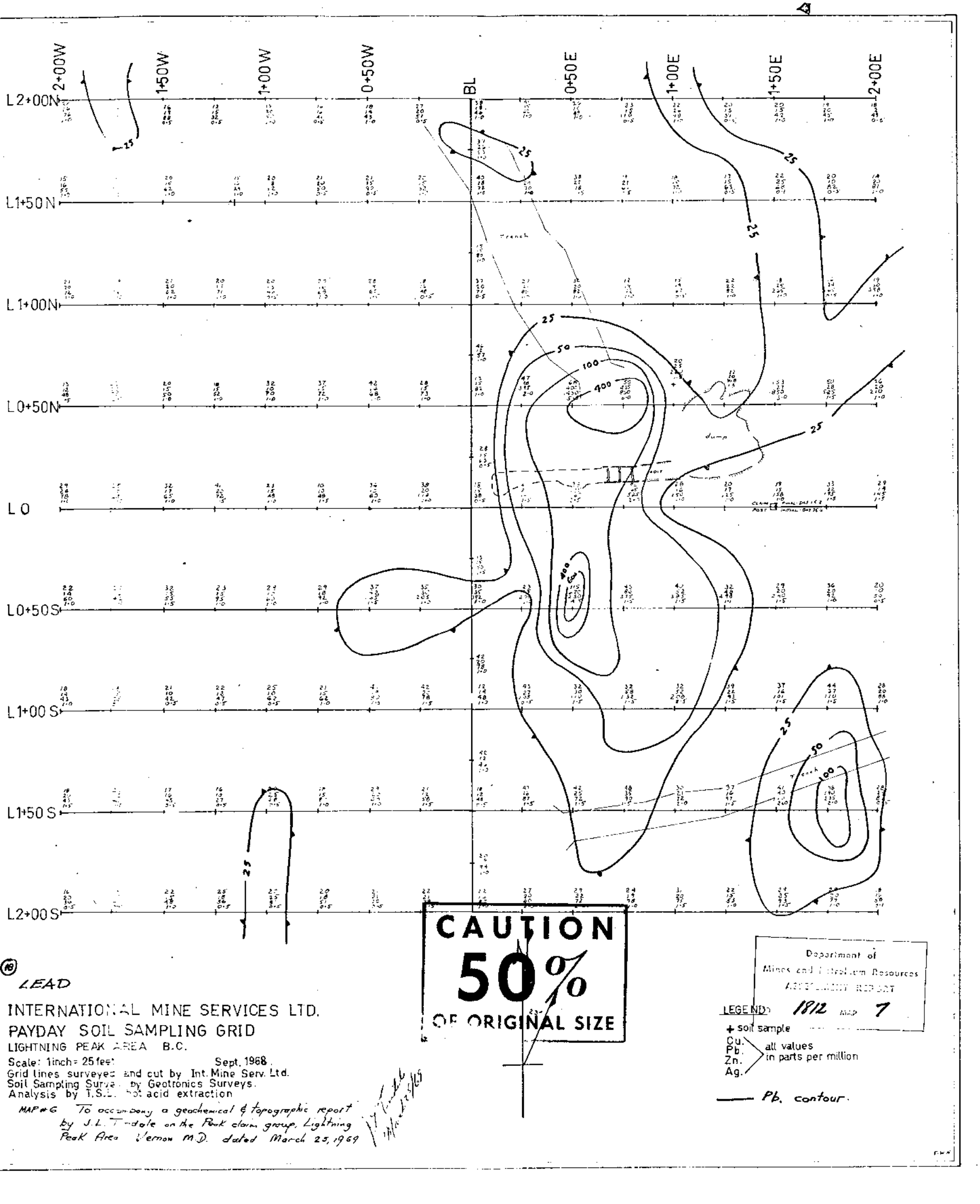
LEGEND

Denotes outer claim boundary.
Denotes chained location line.
Denotes sheet boundary
Denotes claim post.
Denotes stationed picket or Soil Sample
Cu Pb Zn Ag Denotes values in p.p.m.
Denotes swampy area
Denotes approx. road location
Denotes trench, shaft or pit
Denotes mine adit

KEY MAP
6 1
5 2
4 3

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1812 MAP 6

McELHANNEY SURVEYING & ENGINEERING LTD.
Vancouver B.C.
SCALES HOR. 1"=200'



Department of Mines and Petroleum Resources
ASSESSMENT REPORT
1812 MAP 7

LEGEND

+ soil sample

Cu. Pb. Zn. Ag. } all values in parts per million

—— Pb. contour.

(46)

LEAD

INTERNATIONAL MINE SERVICES LTD.

PAYDAY SOIL SAMPLING GRID

LIGHTNING PEAK AREA B.C.

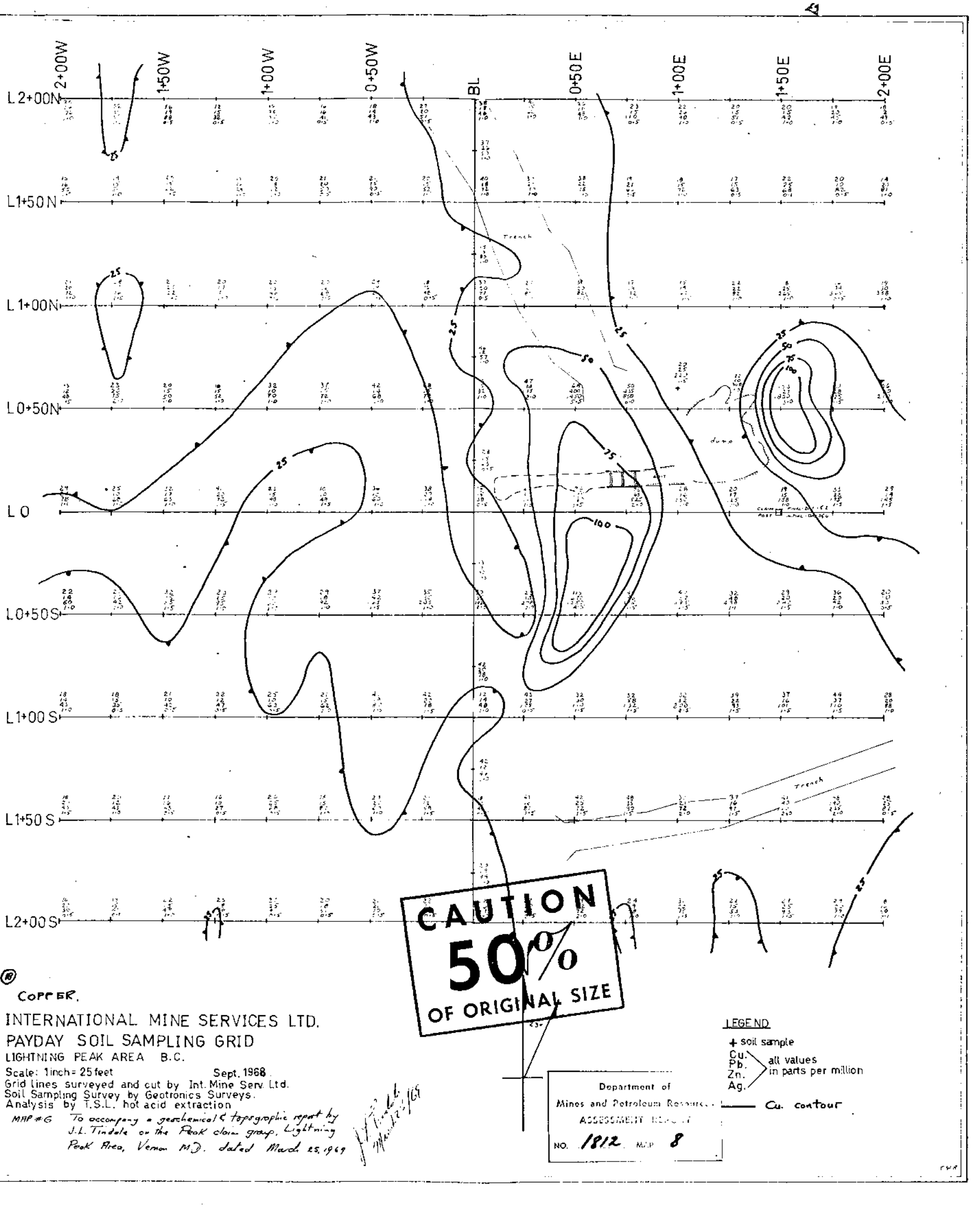
Scale: 1inch = 25 feet Sept. 1968.

Grid lines surveyed and cut by Int. Mine Serv. Ltd.

Soil Sampling Surveys by Geotronics Surveys.

Analysis by T.S.L. hot acid extraction

MAP #6 To accompany a geochemical & topographic report by J.L. Tindale on the Peak claim group, Lightning Peak Area Vernon M.D. dated March 25, 1969



(R)

COPPER.

INTERNATIONAL MINE SERVICES LTD.

PAYDAY SOIL SAMPLING GRID

LIGHTNING PEAK AREA B.C.

Scale: 1 inch = 25 feet Sept. 1968.

Grid lines surveyed and cut by Int. Mine Serv. Ltd.
Soil Sampling Survey by Geotronics Surveys.
Analysis by T.S.L. hot acid extraction

MAP #6 To accompany a geochemical & topographic report by J.L. Tindale on the Peak claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1969

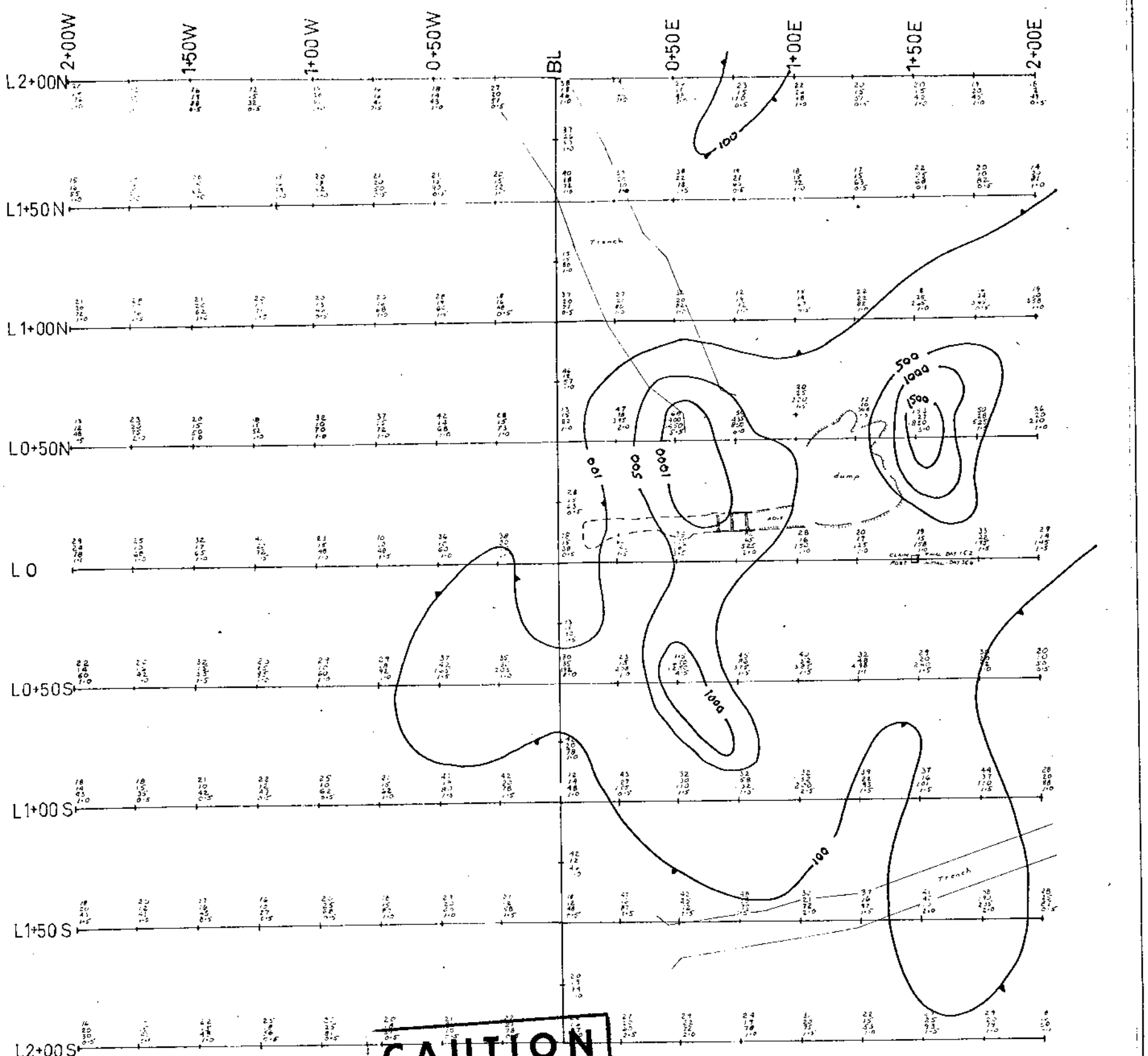
LEGEND

+ soil sample

Cu. / Pb. / Zn. / Ag. — all values in parts per million

Cu. contour

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1812 MAP 8



(18)

ZINC

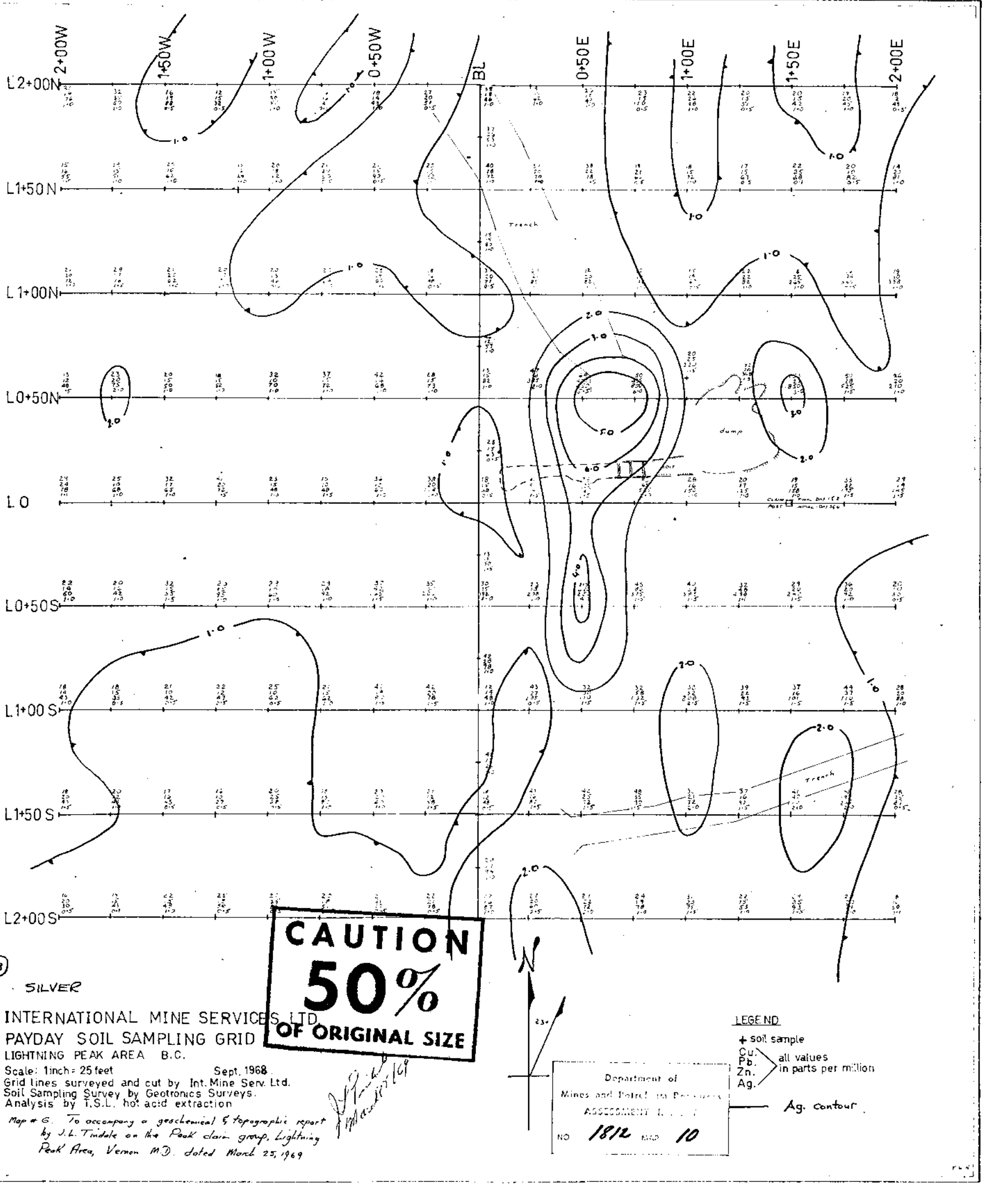
INTERNATIONAL MINE SERVICES LTD.
PAYDAY SOIL SAMPLING GRID
LIGHTNING PEAK AREA B.C.
Scale: 1 inch = 25 feet Sept. 1968.
Grid lines surveyed and cut by Int. Mine Serv. Ltd.
Soil Sampling Survey by Geotronics Surveys.
Analysis by T.S.L., hot acid extraction

MAP #6. To accompany a geochemical & topographic report by J.L. Tindle on the Peak claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1969

J. Tindle March 25/69

LEGEND
+ soil sample
Cu. Pb. Zn. Ag. — all values in parts per million
Zn. contour

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO 1812 MAP 9



(18)

SILVER

INTERNATIONAL MINE SERVICES LTD.

PAYDAY SOIL SAMPLING GRID

LIGHTNING PEAK AREA B.C.

Scale: 1 inch = 25 feet Sept. 1968.

Grid lines surveyed and cut by Int. Mine Serv. Ltd.

Soil Sampling Survey by Geotronics Surveys.

Analysis by T.S.L. hot acid extraction

Map # 6. To accompany a geochemical & topographic report by J.L. Tindale on the Peak claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1969

CAUTION
50%
OF ORIGINAL SIZE

LEGEND

+ soil sample

Cu. Pb. Zn. Ag. — all values in parts per million

Ag. contour

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO 1812 MAP 10

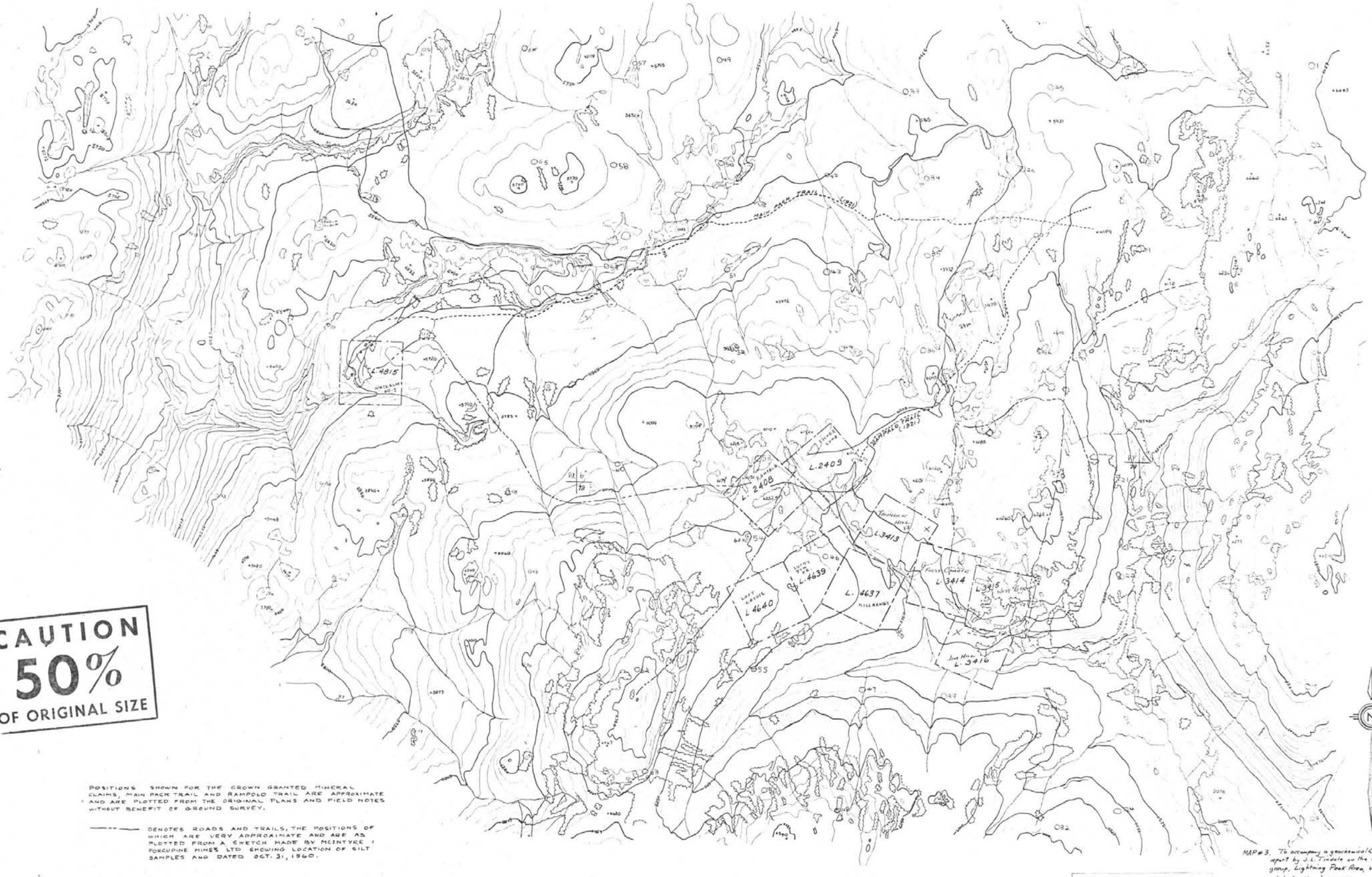
CAUTION
50%
OF ORIGINAL SIZE

JOB NO. 5261-0

1812 11

MAP #4. To accompany a geological & topographic report by J.L. Tindle on the Pearl claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1949

McELHANNEY SURVEYING & ENGINEERING LTD.
Vancouver, B.C.



CAUTION
50%
OF ORIGINAL SIZE

POSITIONS SHOWN FOR THE CROWN GRANTED MINERAL CLAIMS, MAIN PACK TRAIL AND RAMPOLO TRAIL ARE APPROXIMATE AND ARE PLOTTED FROM THE ORIGINAL PLANS AND FIELD NOTES WITHOUT BENEFIT OF GROUND SURVEY.

———— DENOTES ROADS AND TRAILS, THE POSITIONS OF WHICH ARE VERY APPROXIMATE AND ARE AS PLOTTED FROM A SKETCH MADE BY McINTYRE PORCUPINE MINES LTD SHOWING LOCATION OF SILT SAMPLES AND DATED OCT. 31, 1960.

MAP #3. To accompany a geochemical & topographic report by J.L. Tindale on the Peak claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1969

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1812 MAP 12

INTERNATIONAL MINES SERVICES LTD.

LIGHTNING PEAK AREA

PRELIMINARY RECONNAISSANCE TYPE MAPPING

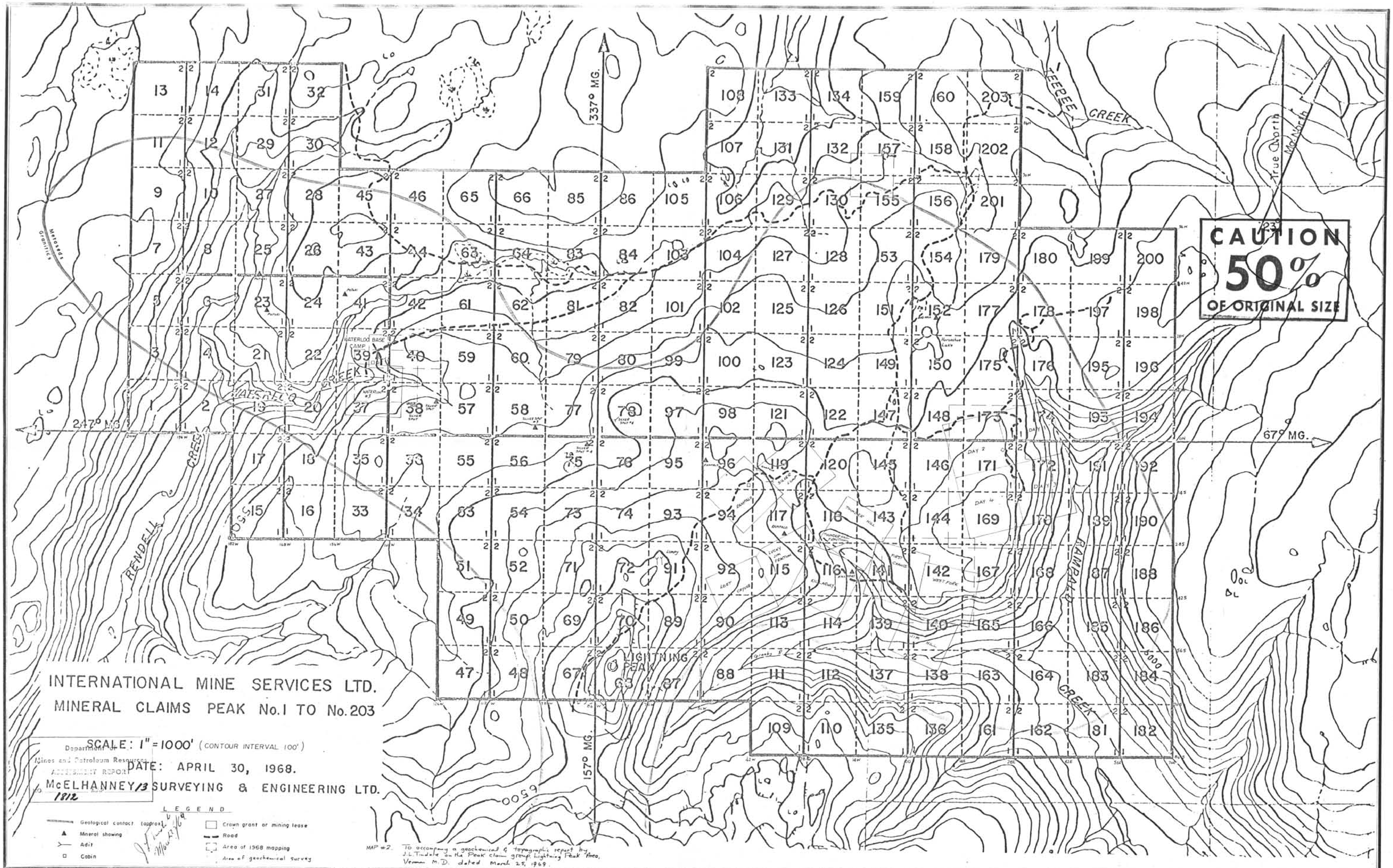
Compiled by
McELHANNEY SURVEYING & ENGINEERING LTD
1200 West Pender St. Vancouver, B.C.

SCALE	CONTOUR INTERVAL	DATE	JOB NO.	SHEET NO.
1" = 1000'	50'	June 1968	5261-0	1 of 1

SCALE AND ELEVATION DATUM BASED ON LIMITED GROUND CONTROL RESULTING IN GOOD RELATIVE, BUT UNCERTAIN ABSOLUTE MAP ACCURACY

COMPILED FROM AERIAL PHOTOGRAPHY AT AN APPROXIMATE SCALE OF 1 INCH EQUALS 2000 FEET FLOWN IN 19

McELHANNEY ASSOCIATES JOB No. 3032-1



INTERNATIONAL MINE SERVICES LTD.
MINERAL CLAIMS PEAK No.1 TO No.203
SCALE: 1" = 1000' (CONTOUR INTERVAL 100')
DATE: APRIL 30, 1968.
McELHANNEY SURVEYING & ENGINEERING LTD.
Department of Mines and Petroleum Resources
ASSESSMENT REPORT
No. 1812
LEGEND
Geological contact (approx)
Mineral showing
Adit
Cabin
Crown grant or mining lease
Road
Area of 1968 mapping
Area of geochemical survey
MAP #2. To accompany a geochemical & topographic report by J.L. Tindale on the Peak claim group, Lightning Peak Area, Vernon M.D. dated March 25, 1969.
CAUTION
50%
OF ORIGINAL SIZE
True North
Mag. North
23°
337° MG.
67° MG.
157° MG.
247° MG.
TEEPEE CREEK
WATERLOO CREEK
RENDELL CREEK
RAMPALO CREEK
WATERLOO BASE CAMP
LIGHTNING PEAK
Horseshoe Lake
Metaseds
Granitics
6500
6000