

4579

REPORT ON THE GEOCHEMICAL
SURVEY OF THE KAJUN CLAIM GROUP

Location: South shore of East Barriere Lake,
Kamloops Mining Division
Latitude $51^{\circ} 15' N$ Longitude $119^{\circ} 48' W$

Report By: G.H. Scott B.Sc. M.A.

Supervised By: B.E. Spencer B.A.Sc. P.Eng.

Work Done By: Western Mines Limited as agent for
Lewis Bloomfield

Work Period: July 20 - August 2, 1973.

September 16, 1973

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 4579	MAP

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INTRODUCTION

Western Mines Limited of 870 One Bentall Centre, 505 Burrard Street, Vancouver 1 has exercised an option to explore a group of ¹⁷twenty mineral claims held by Lewis Bloomfield, Box 196, Barriere, British Columbia.

A programme of line-cutting and geochemical soil sampling was carried out under the supervision of the writer during the period July 20 - August 2, 1973. The purpose of this survey was to test for the presence of sulphide-bearing bedrock around a mineralized trench. A rock sampling programme was carried out concurrently in this trench.

LOCATION AND ACCESS

The Kajun Group consists of twenty contiguous mineral claims extending south from the southern shore of East Barriere Lake, approximately two miles from the western end of that lake. The town of Barriere lies a further fifteen miles to the west.

A good gravel road connects Barriere and East Barriere Lake and the property is reached by logging roads from this maintained highway. Figure # 1 shows the location of the group and the access roads.

TOPOGRAPHY

The property has a relief of 1,200 Ft., rising from the lake at approximately 2100 feet A.S.L. in a fairly constant slope. There are several cliffs which are continuous and run west of north across the property. Apart from these, mobility on foot in the bush is excellent.

GEOCHEMICAL SURVEY

Two types of geochemical samples were taken:

- i) Chip samples from a trench showing visible lead and zinc sulphides;
- ii) A soil sample survey on a control grid around the trench.

ROCK SAMPLING

Grid

Samples were taken every 10 feet along a longitudinal section of the trench. At each of these stations, chip samples were taken at one-foot intervals across the floor of the trench, and up the east wall of the trench.

Field Procedure

A rock pick was used to obtain the samples which were then placed in a labelled "kraft" paper envelope.

Assaying

The chip samples were prepared and assayed by Kamloops Research and Assay Laboratory Limited, Box 946 Kamloops B.C. under the direction of B.L. Brown, a Registered Assayer in the Province of British Columbia. A total of 122 samples were submitted.

SOIL SAMPLING

Grid

A control grid of approximately seven line miles was cut by Relcom Exploration Company of 330 Clapperton Road, Kamloops. The lines ran due east-west and had a 400 foot spacing. Figure # 2 shows the location of the claim group in detail and Figure # 3 shows the grid plan in reference to the claim boundaries.

Field Procedure

Soil samples were collected wherever possible from the "B" horizon. A combination of a rock pick, garden trowel and folding shovel were used to obtain the sample which was then placed in a labelled "kraft" envelope. Samples were taken every 100 feet along all the lines.

All soil samples were partially dried in the field. A total of 354 samples were collected.

Geochemical Assaying

The soil samples were analysed in the laboratory of Kamloops Research and Assay Laboratory Ltd. under the direction of B.L. Brown, a Registered Assayer in the Province of British Columbia.

The method of analysis used was as follows:-

- i) Dried in electric oven
- ii) Screened to -80 mesh
- iii) Digested in hot nitric and hot hydrochloric acids
- iv) Tested in an Atomic Absorption Spectrometer against known standards.

The results obtained were quoted in parts per million.

GEOLOGY

The grid is underlain by a series of interbedded chloritic and sericitic schists and recrystallized limestone. The regional altitude strikes approximately 160° and dips to the east at 25° .

Mineralization occurs at limestone-chlorite schist contacts and consists of galena and minor sphalerite associated with concordant quartz veins.

INTERPRETATION OF RESULTS

Figures 4, 5 and 6 are histograms of the analyses of lead, zinc and silver respectively. From these are determined the following values:-

	<u>Background</u>	<u>Anomalous</u>	<u>Highly Anomalous</u>
Lead	20 p.p.m.	> 75 p.p.m.	> 115 p.p.m.
Zinc	60 p.p.m.	> 120 p.p.m.	> 180 p.p.m.
Silver	0.7 p.p.m.	> 1.5 p.p.m.	> 3.0 p.p.m.

The mineralized trench is at grid location L30 + 00N 11 + 00E, and the results must be interpreted with this in consideration.

There are no well defined lead anomalies apart from four readings down-slope of the trench. A weak anomaly extends from 15 + 00E to 20 + 00E on L32 + 00N, but this does not extend appreciably to the north or south.

Zinc shows an anomalous zone intersected by the grid at the following locations:

L40+00N	19+00E to 24+00E
L36+00N	17+00E to 23+00E
L32+00N	14+00E to 24+00E

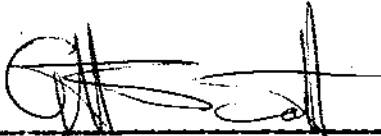
There is also a well defined anomaly down-slope of the mineralized trench. Both are probably due to zinc-mineralized bedrock up-slope from the soil anomaly.

Silver shows only isolated anomalous readings with no supporting evidence of a defined anomaly. These are probably due to isolated pockets of replacement associated with the recrystallized limestones.

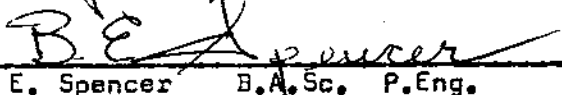
Figure 7 (in pocket) shows the results obtained in the geochemical sampling of the trench. The average for each section are shown above and below the profile and plan. Mineralization extends over a 130-foot strike length, and the weighted average over this length is:

<u>Au. oz</u>	<u>Ag. oz.</u>	<u>Pb %</u>	<u>Zn %</u>
.027	1.52	2.38	1.18

Report by


Graham H. Scott, B.Sc. M.A.

Supervised by


B. E. Spencer B.A.Sc. P.Eng.

DECLARATION OF EXPENDITURES

INITIAL GEOCHEMICAL RECONNAISSANCE

G. H. Scott	July 5, 6 @ \$55 p.d.	\$ 110.00
B. E. Spencer	" " \$100 p.d.	200.00
Board & Lodging	" 25 "	50.00
Transportation	" " 18 "	36.00

SUPERVISION

G. H. Scott	July 20 - Aug. 2 @ \$55 p.d.	\$ 770.00
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CHIP SAMPLING

Barry Wilson	July 20-July 25 @ \$35 p.d.	210.00
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LINE CUTTING

Relcom Exploration Company - July 23 - 31

6.7 miles @ \$143.62 per mile	962.25
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Cost includes board, lodging and transportation

Personnel: Mauri Hjelt
Barry Wilson
Kelly Collins

SOIL SAMPLING

Barry Wilson	1 day @ \$35.00 p.d.	35.00
Kelly Collins	3 days @ " "	105.00

BOARD AND LODGING

17 man days at East Barriere Lake
Resort at \$17 p.d. July 20 - Aug. 2 \$ 289.00

TRANSPORTATION

Hertz 4 x 4 plus gasoline 504.29

TRENCHING

Removing talus from pre-existing trench:
L. Bloomfield and Sons, Barriere B.C.
14 hours @ \$30 per hour 420.00

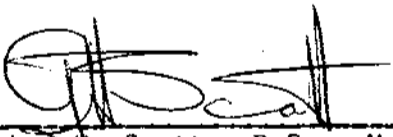
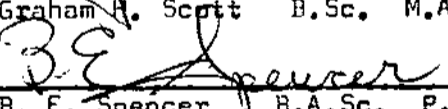
ASSAYING

Kamloops Research and Assay Laboratory Ltd.
354 soil samples @ \$2.20 each 778.80
122 rock samples @ \$14.00 each 1,780.00

REPORT WRITING AND DRAFTING

G. H. Scott Sept. 10 - 15 @ \$55 p.d. 275.00

\$6,453.34


Graham H. Scott B.Sc. M.A.

B. E. Spencer B.A.Sc. P.Eng.

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *19th*
day of *September, 1973*, A.D.

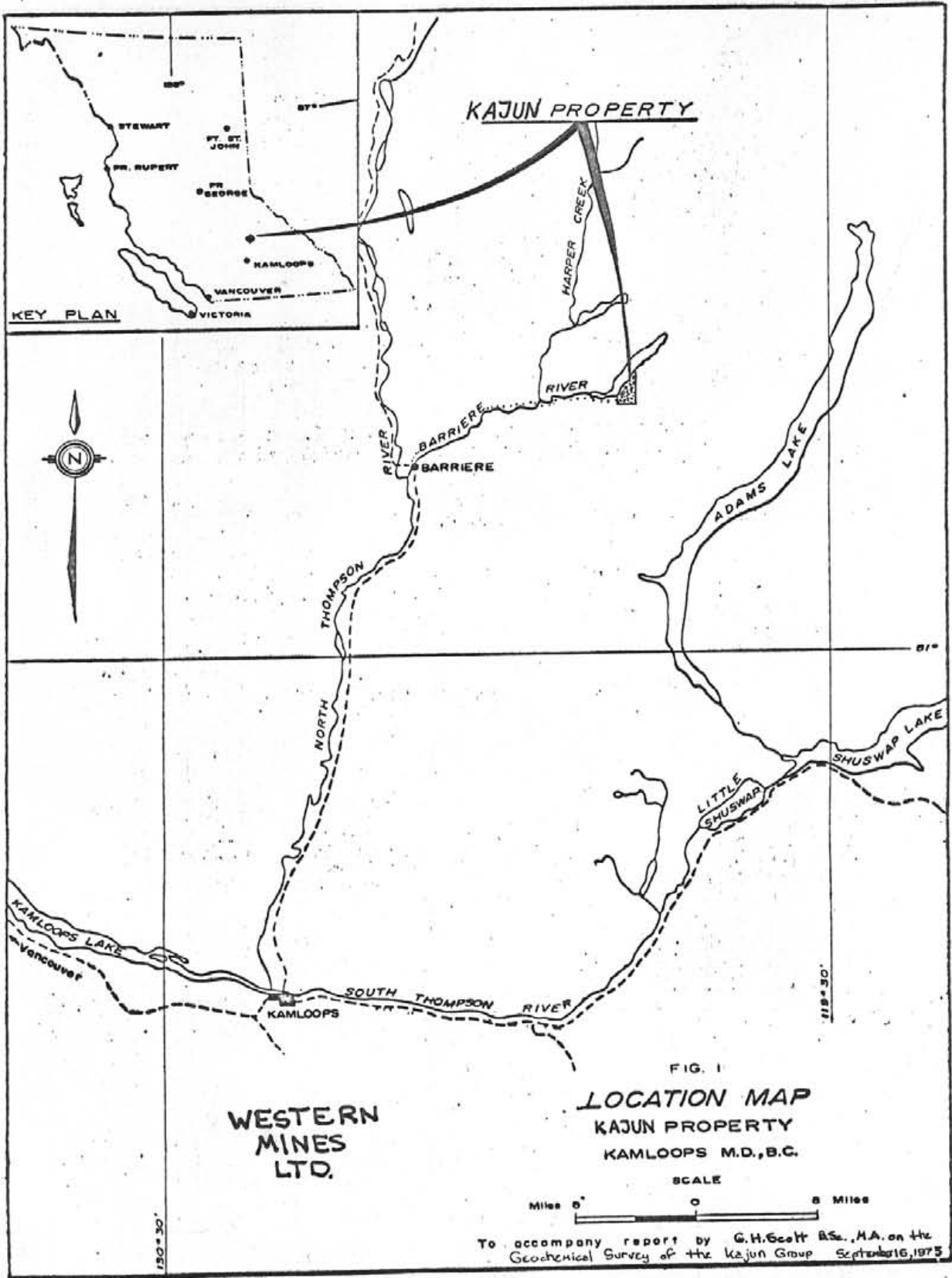


Jean Paul Sub-Mining Recorder
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

APPENDIX

Kajun Claim Group

<u>Claim Name</u>	<u>Record Number</u>	<u>Anniversary</u>
June # 1	46308 G	June 1
Kajun 1 - 14	100131-100144	Sept. 25
Kajun 15 Fr., 16 Fr	100145-100146	"
Kajun 17, 18	100147-100148	"
Kajun 19 Fr	100577	Oct. 13



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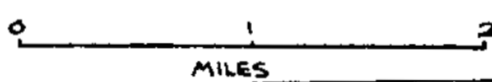
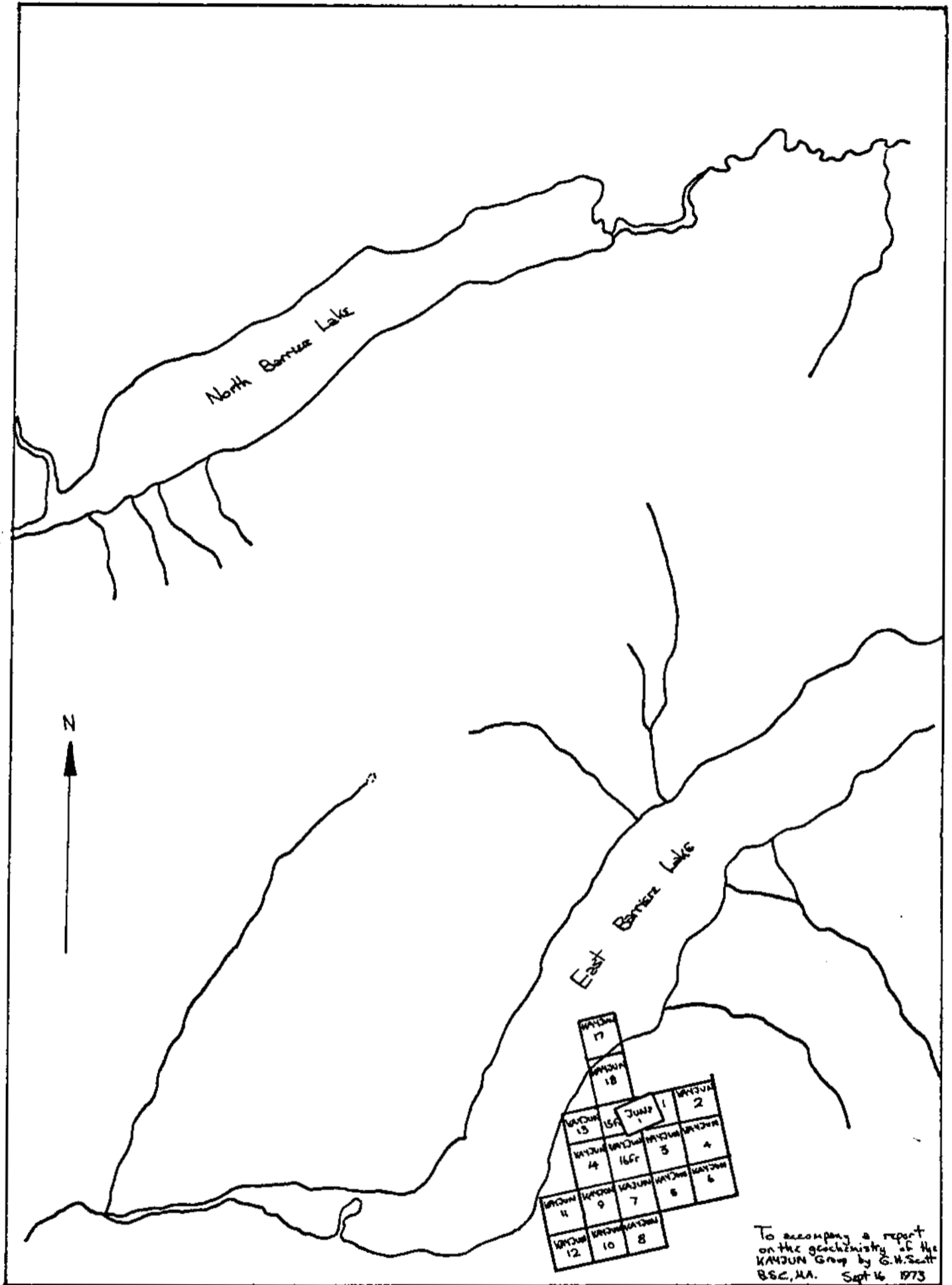
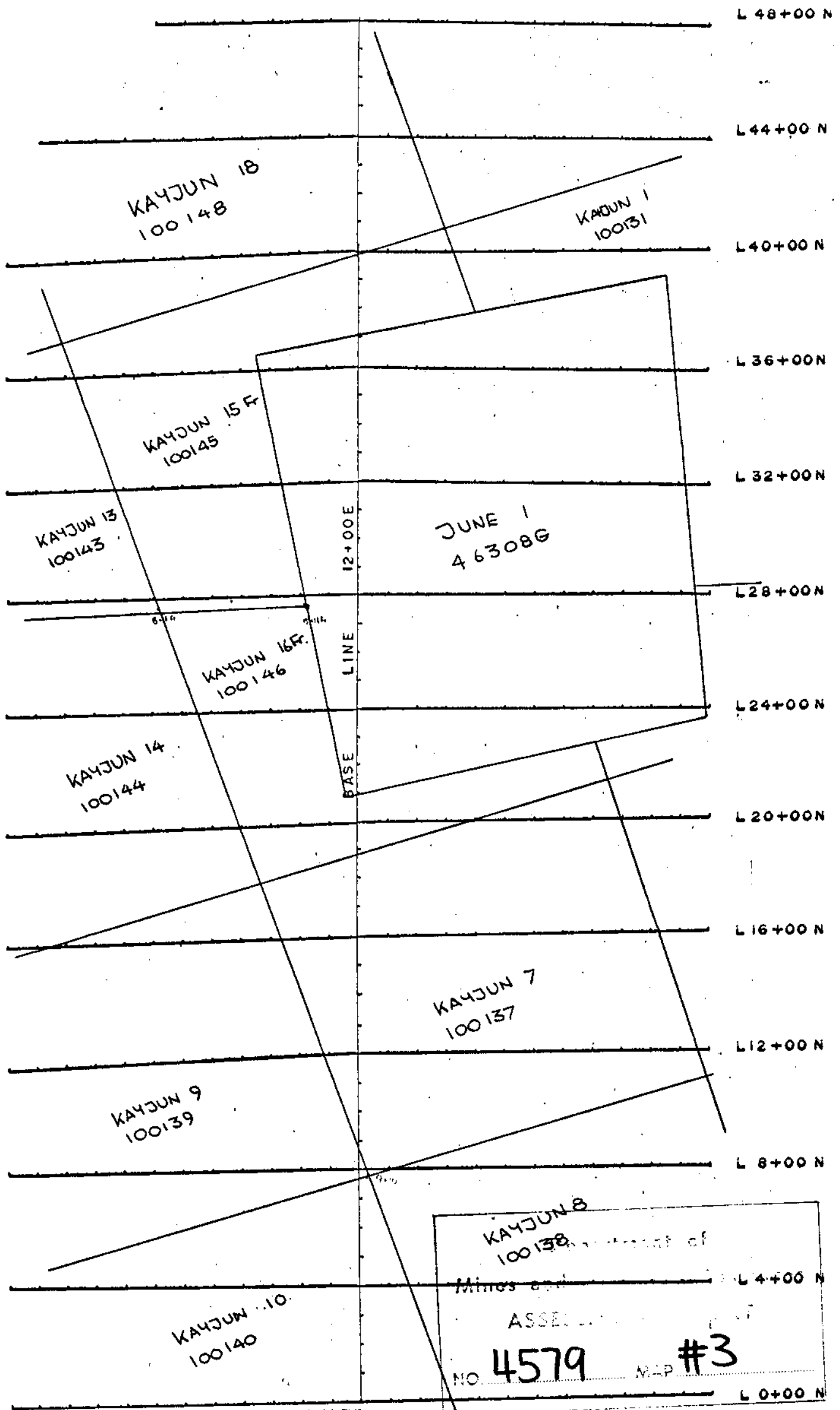


Fig. 2 Claim Location Map.

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WESTERN MINES LIMITED
 KAYJUN CLAIMS GRID
 SCALE: 1" = 400'

Fig. 3
 Grid Location Map

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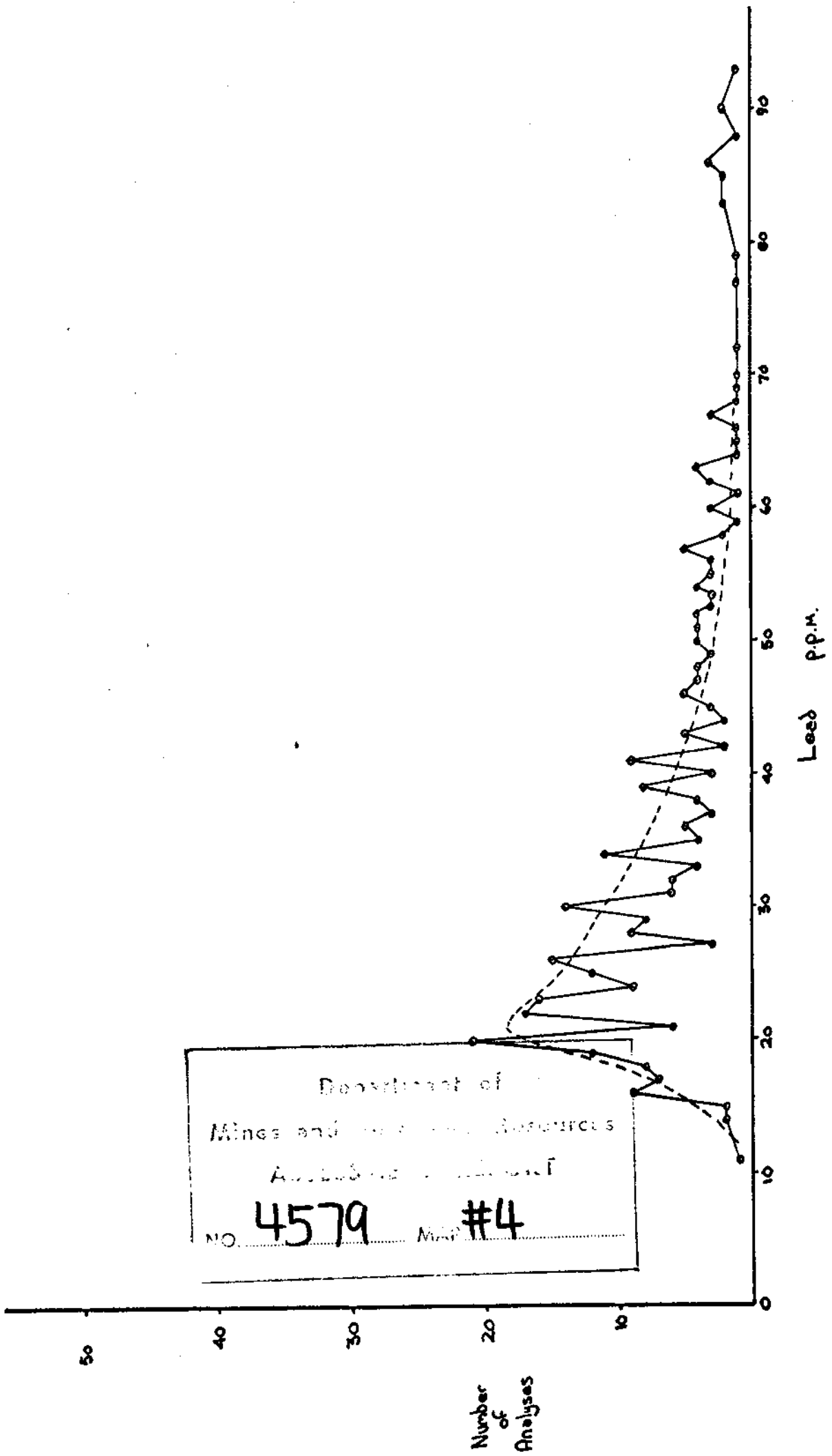


Fig. 4

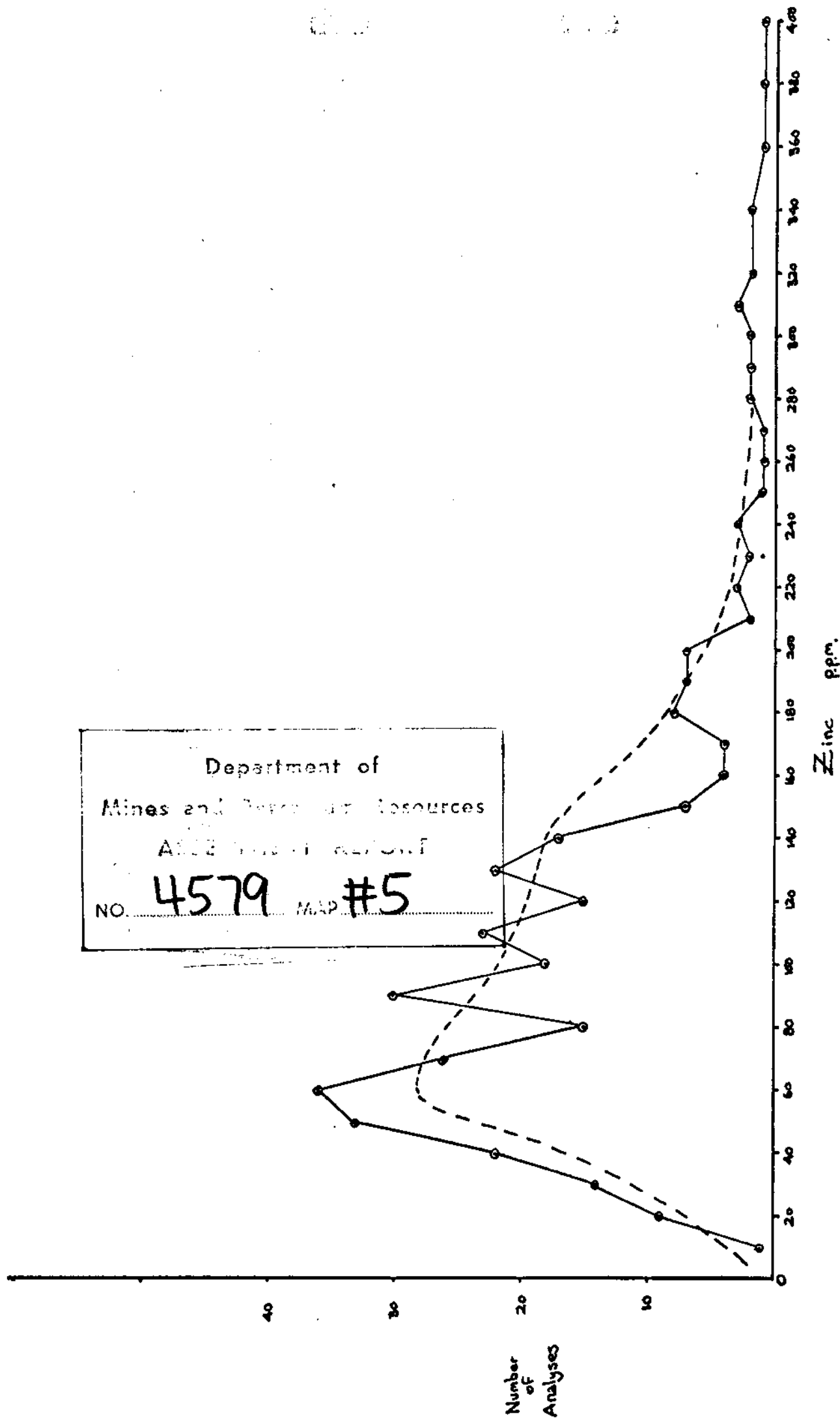
Histogram of Lead soil sample analyses.

To accompany a report on the geochemistry of the Kayua Claim Group by G.H. Scott B.S., M.A.

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Revised by	Date	Revised by	Date

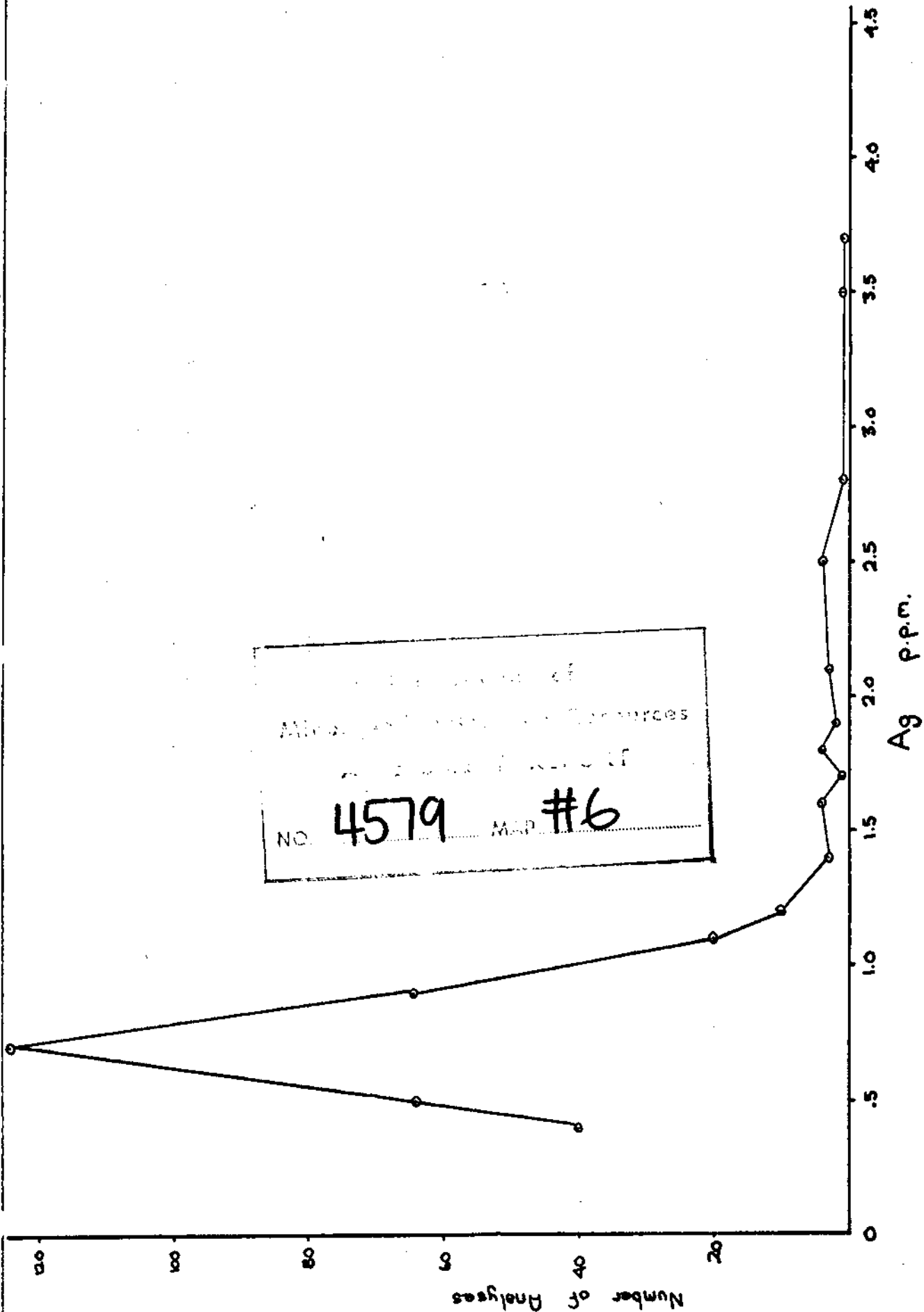
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NO. **4579** MAP **#5**



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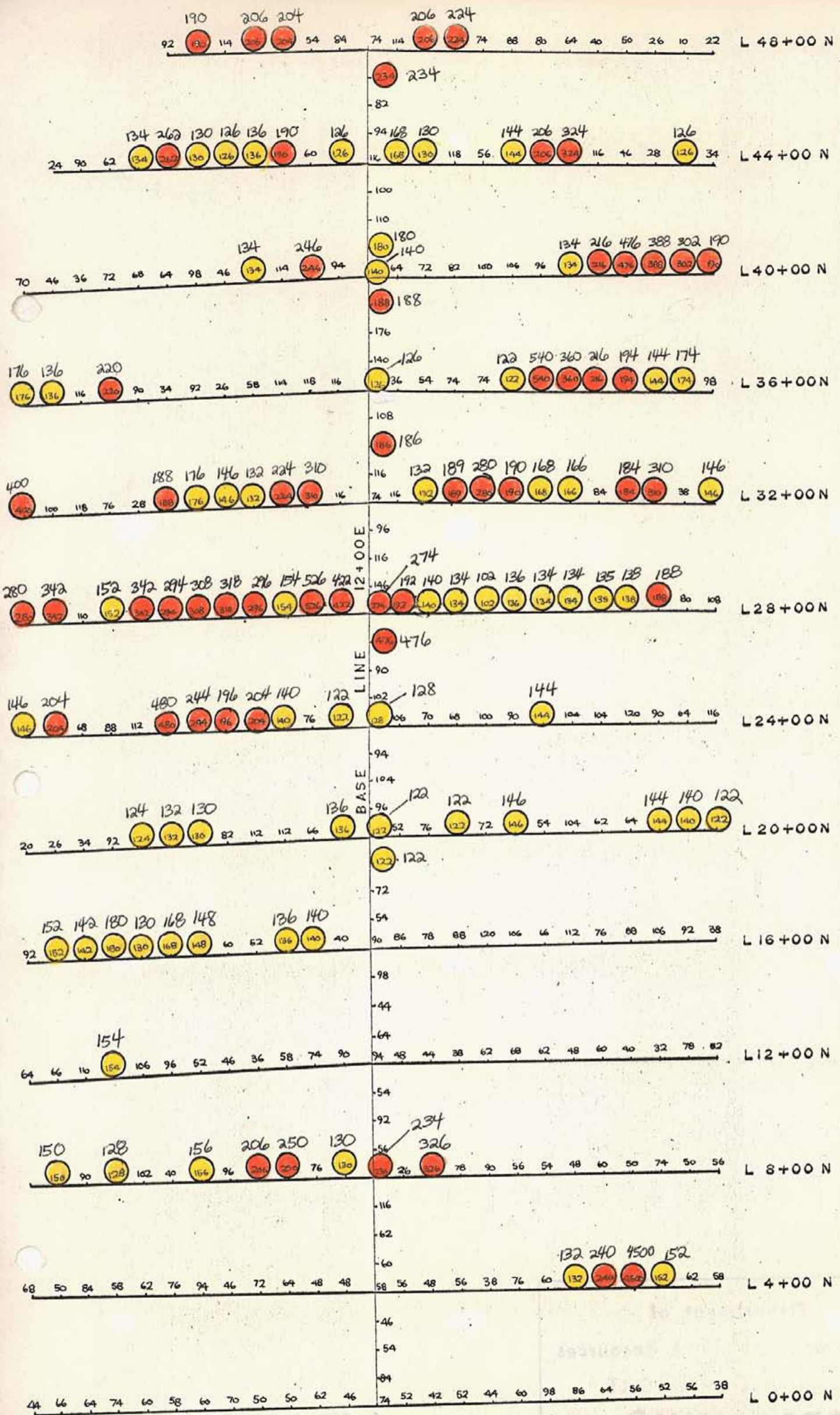
Fig. 5
Histogram of Zinc soil sample analyses
To accompany a report on the geochemistry of
the Kaysa Chim Group by G.H. Scott B.Sc. M.A.
Scale: _____ Date: **Sept 16 1973** Plate: _____



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 U.S. Geological Survey
 NO. 4579 MAP #6

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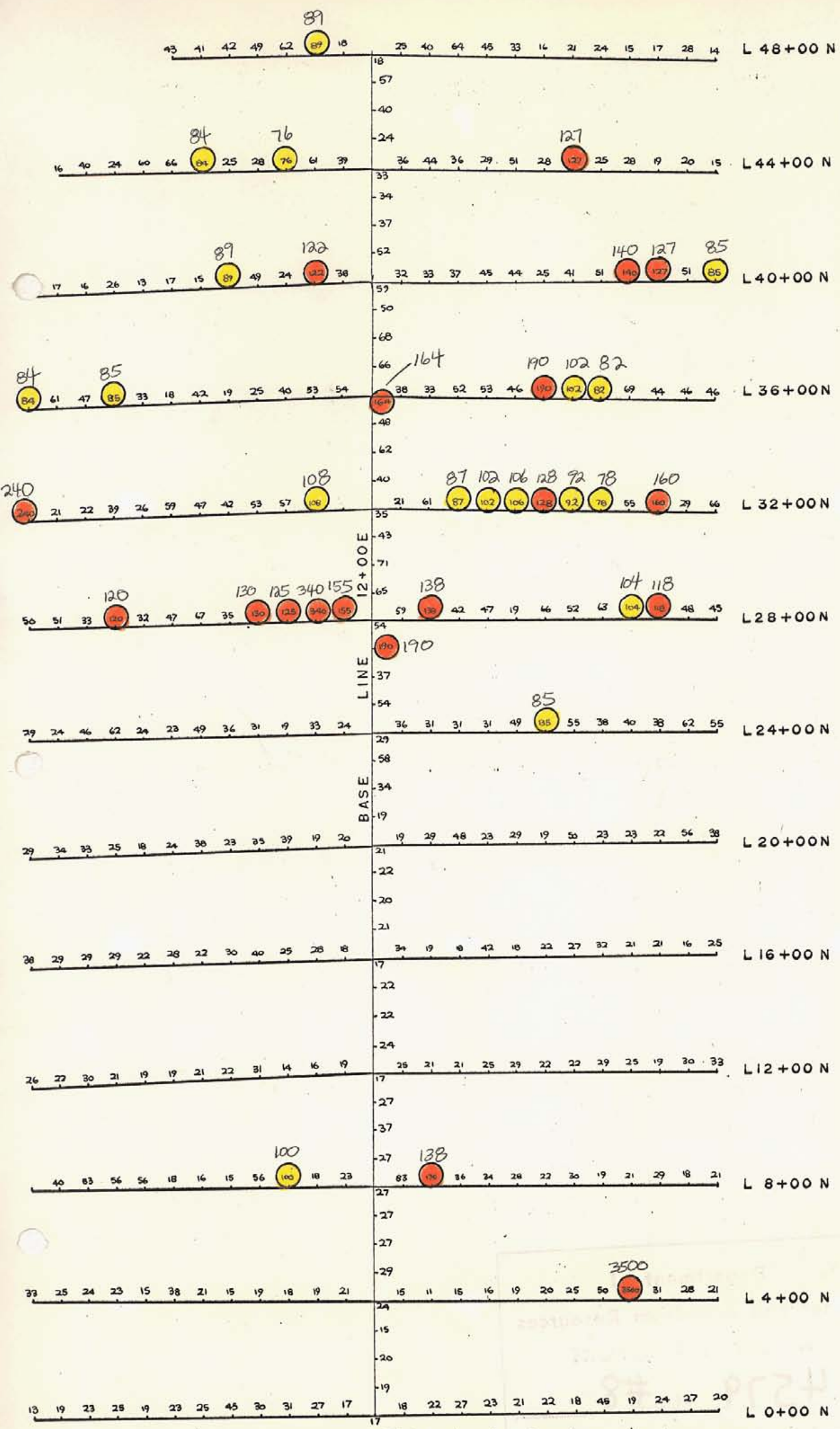
Fig. 6
 Histogram of Silver soil sample analyses
 To accompany a report on the geochemistry of the
 Key-Jon Claim Group by G. H. Scott B.Sc., M.A.
 Scale: Date: Sept 16 1973 Plate:



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 KAYJUN CLAIMS GRID
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Fig. 9

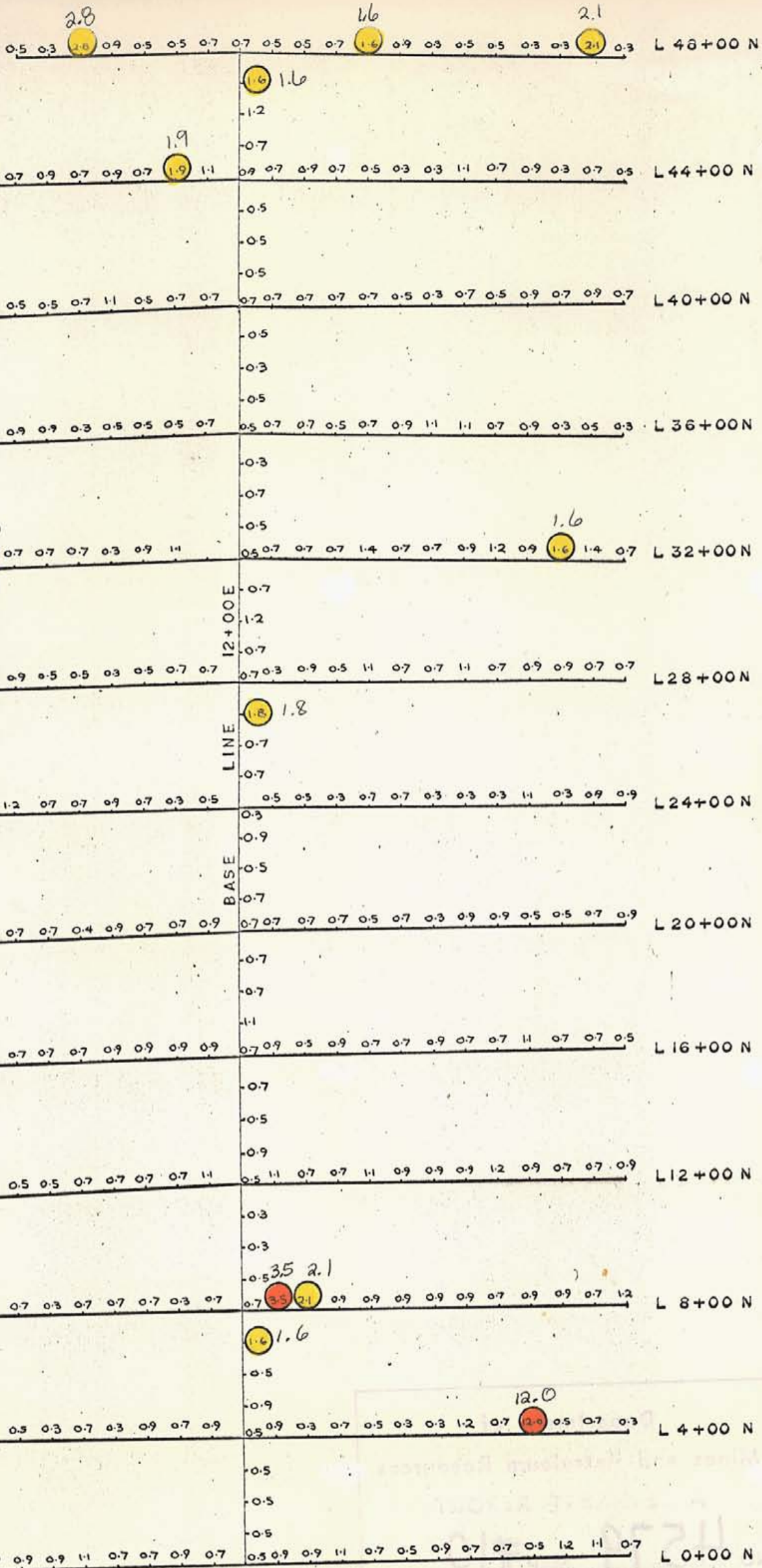
Zinc Geochemistry in p.p.m.
 ● anomalous, 100-184
 ● highly anomalous >185



Western Mines Limited
 KAJUN CLAIM GRID
 Scale 1" = 400'

Fig.8 Lead Geochemistry in p.p.m.
 ● anomalous 75-100
 ● highly anomalous >120

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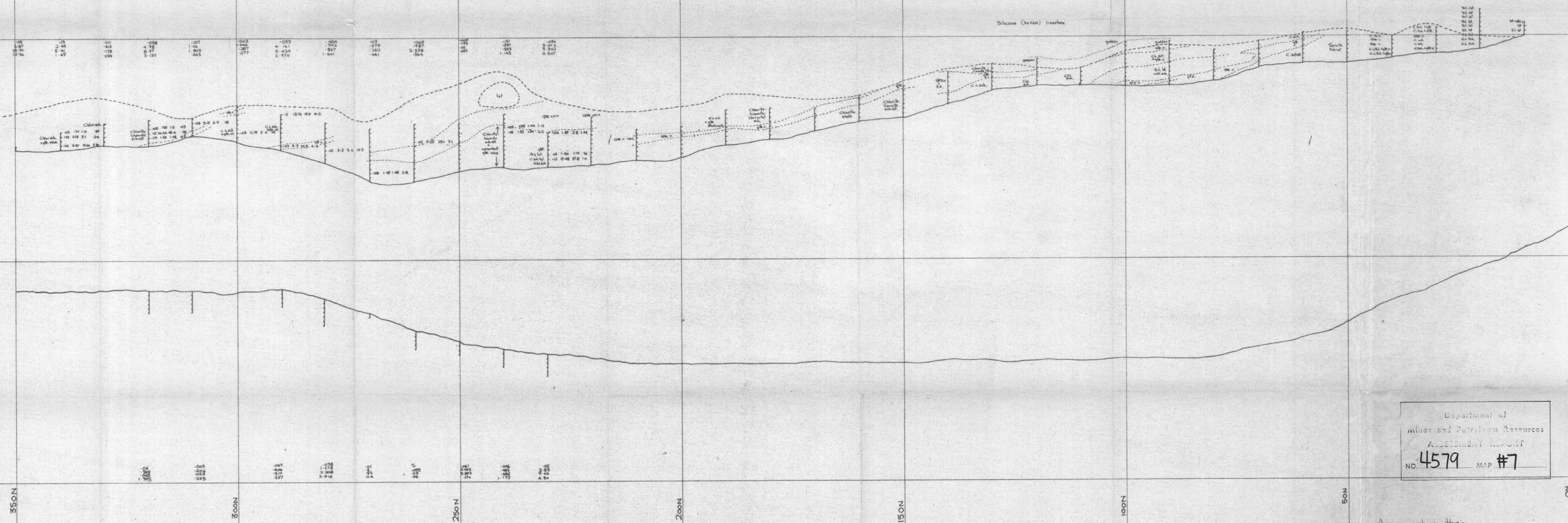


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 KAYJUN CLAIMS GRID
 SCALE: 1" = 400'

Fig. 10 Silver Geochemistry in pp.m.
 ● anomalous 1.6 - 3.5
 ● highly anomalous > 3.5

PROFILE

PLAN



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Assays shown thus:
 [Symbol] Assay to 20' individual assays of high-grade sections
 [Symbol] Average assay, capped interval
 [Symbol] Junction of foot and wall of trench (Trench has J-shaped cross-section)

4579
 M7

Figure 7
 KAYJUN TRENCH BARRIER, B.C.
 Longitudinal Profile and Plan showing Assays
 Prepared by G. H. M. & A. - the Geotechnical
 Engineering & Construction Company, Ltd. 1973
 WESTERN MINES LTD. SCALE 1" = 10'

