means of the SIP method. There are additional class 2 anomalous zones of gold in the spots of (A10.5 - A11.5) (B10 - B11.5) (C10 - C11) (D11) and (E9.5 - E10) (G9.5) (H10) in the south of the SIP survey area, and class 2 anomalous zones of silver almost overlap these. This area is located at an upper Limestone Formation and no particular mineralization was recognized through the geological survey. However, referring to anomalous areas of gold and silver in the neighborhood of stocks of tonalite and quartz diorite along A. Sabul outside the area of the geophysical survey, as described later, concealed intrusions of tonalite and quartz diorite could be distributed in this anomalous area.

5-2-2 Areas Outside of Geophysical Survey

(1) Correlation between path-finder elements

The correlation among all path-finder elements and the graph are shown in Table II-3-8 and Fig. II-3-19. The correlation between zinc and silver is poor but others are favorable. Especially the correlation between zinc and lead is highly favorable with the correlation coefficient of 0.75 in consideration that the expected deposit in this area is the lead-zinc deposit.

(2) Histogram

The maximum and minimum values of each path-finder element are gold 270 ppb, 1 ppb, silver 3.9 ppm, 0.1 ppm, copper 660 ppm, 15 ppm, lead 3000 ppm, 1 ppm, and zinc 4700 ppm, 28 ppm, and a histogram was prepared after converting these values to logarithms. While silver which has low grade values shows an asymmetric L-shape distribution, other elements of gold, copper, lead and zinc show normal frequency distribution (Fig. 11-3-18).

(3) Anomalous Areas

As was done in the analysis results of processing of the geophysical survey area, the average value, standard deviation and resulting thresholds (H + S.D., $H + 2 \times S.D.$ and $H + 3 \times S.D.$) were calculated. The threshold of (H + S.D.) was set as the anomalous value of Class 2 and the threshold of ($H + 2 \times S.D.$) was set as the anomalous value of Class 1, and any area which indicated an anomalous value of 2 points or greater was regarded as an anomalous area. Since the samples were collected in as uniform a distribution as possible by collecting them at a rate of

average 7 samples per km², anomalous values were extracted out of the drawn contour of equi-analysis values (Table II-3-7, Fig. II-3-21 - 26).

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The area where the class 2 anomalous area in overlap of copper, lead and zinc with gold and silver exist and are distributed in the Barute outcrop to Patahajang silicification zone to A. Nabobar of the A. Mandagang upstream in a range of 3 km long by 1 km wide. Within this anomalous area, there are class 1 anomalous zones of copper, lead and zinc in the Barute - Patahajang area and in the A. Mababar upstream.

Class 2 anomalous areas of gold and silver are distributed in the ridge of T. Handagang and from K. Simpang Pining to the A. Saladi upstream. Stocks of tonalite - quartz diorite intrude in the anomalous zones of Barute - A. Mabobar and A. Saladi associating with the anomalous area. The mountain ridge of T. Mandagang consists of lower Lipestone Formation and is in the same geological conditions as the A. Saladi anomalous area, thus there is a possibility of concealed tonalite and quartz diorite intruding into the Limestone Formation as similar to the situation in the physical survey area.

Table II-3-7 List of Mean Value, Standard Deviation and Threshold Value in Muara Sipongi Area B (Pagar Gunung - Patahajang Area)

a) SIP Survey Area

Element	Мах	Min	Mean	S.D. (log)	H+S.D.	M+2×5.0.	H+3xS.D.
Au (ppb)	175	1	5	0.5958	21	83	
Ag (ppm)	10.5	0.1	0.29	0.5268	0.97	3.29	
Cu (ppa)	415	12	48	0.2757	91	172	324
Pb (ppm)	9,500	1	20	0.7463	115	643	3,587
Zn (ppm)	4,900	31	127	0.4561	364	1,042	2,979

(population: 229)

b) Outside Area of SIP Survey

Elezent	Мах	Min	Hean	S.D. (log)	X+S.D.	X+2xS.D.	H+3xS.D.
Au (ppb)	270	1	11	0.5884	45	175	
Ag (ppm)	3.9	0.1	0.25	0.4430	0.71	1.98	
Cu (ppm)	660	. 15	58	0.2634	106	195	359
Pb (ppm)	3,000	ı	26	0.5395	90	313	1,084
Zn (ppa)	4,700	28	198	0.3593	274	627	1,43

(population: 198)

Table II-3-8 List of Coefficient of Correlation between Path-finder Elements on Geochemical Survey in Muara Sipongi Area B

a) SIP Survey Area

	<u></u>		<u></u>		3.17
1	Au ·	Ag	Cu	Pb	Zn
Au		0.550666	0.192713	0.562439	0.512393
\g	÷		0.120403	0.622877	0.321714
วน				0.335302	0.718206
РЪ		J. 4. 1			0.752058
in					

(population: 229)

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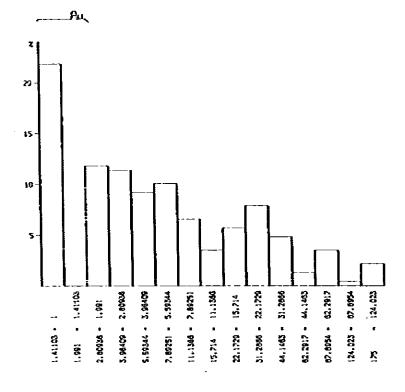
b) Outside area of SIP survey

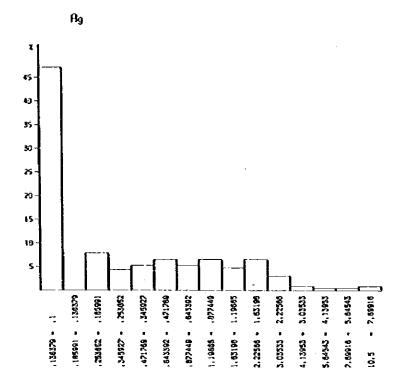
orași de la president de la compresident de la com

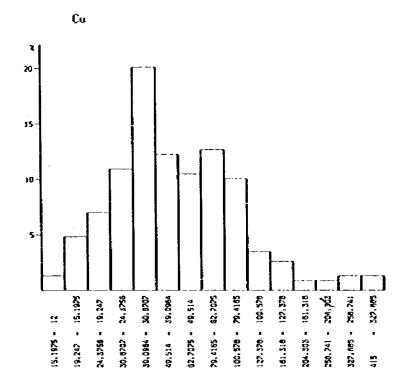
1	Au	Ag	Çu	Pò	Za
Αu		0.463509	0.505905	0.476082	0.427362
Ag			0.038335	0.410928	0.156529
Cu	le. I	100		0.471667	0.770808
Pb					0.782223
2h					

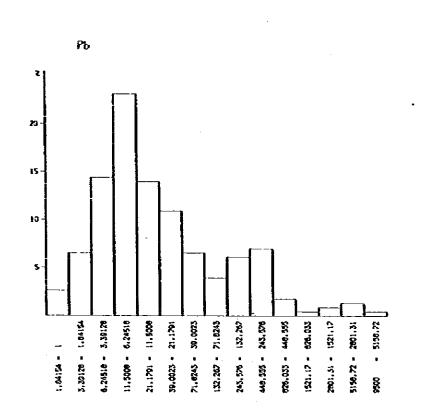
(population: 198)

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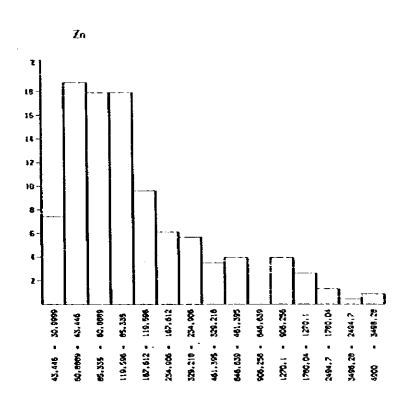
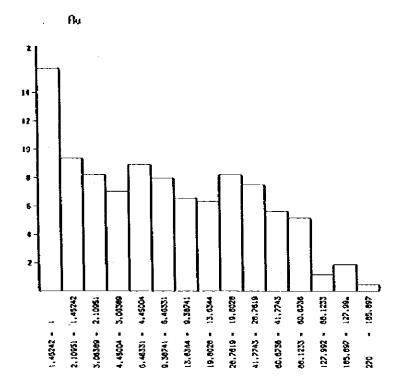
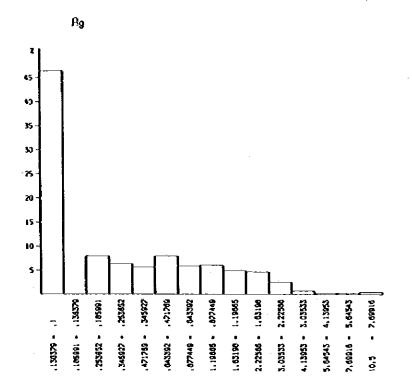
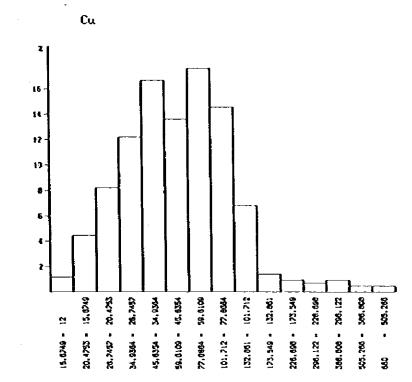
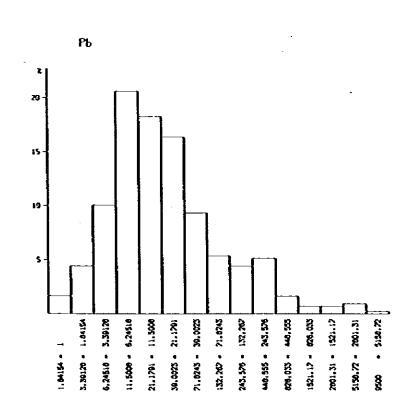


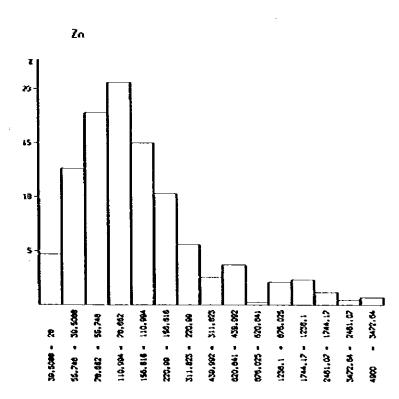
Fig. 11-3-18 Histgram of Geochemical Analysis in Huara Sipongi Area B (SIP survey area)











Histgram of Geochemical Analysis in Muara Sipongi Area B (Outside area of SIP survey)

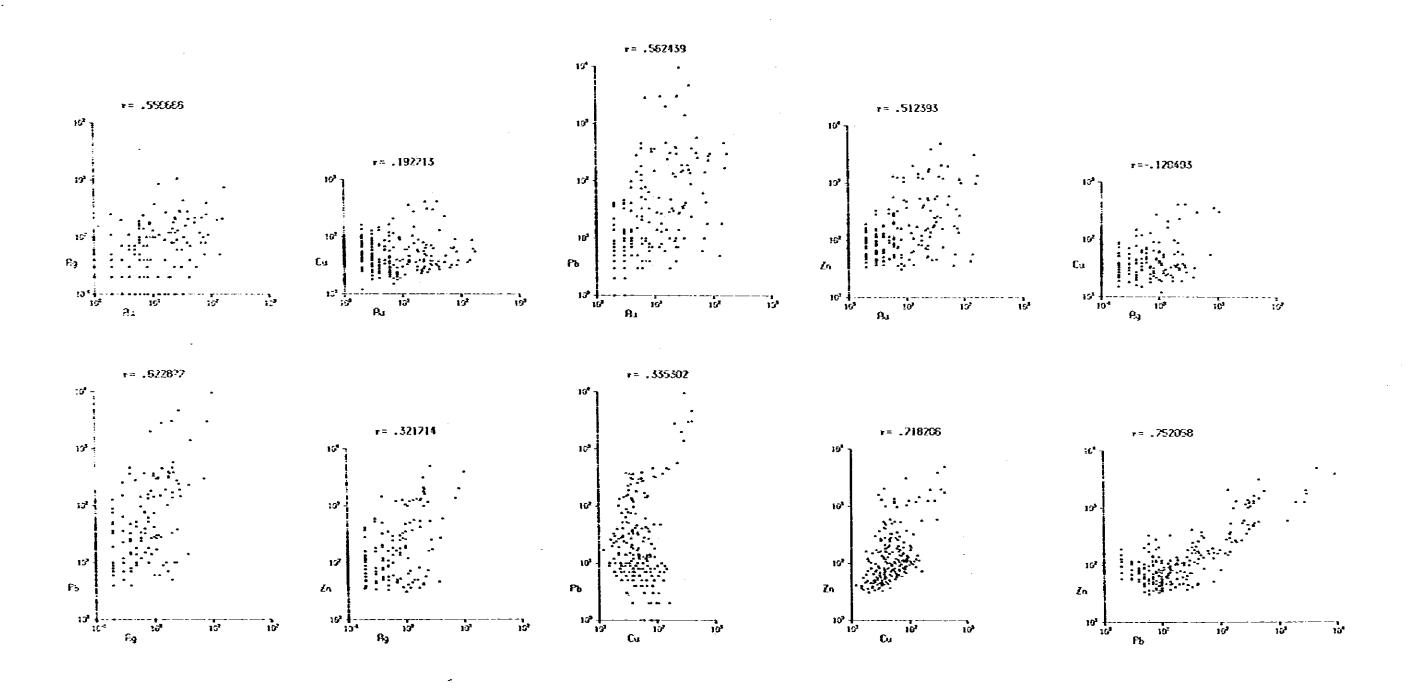
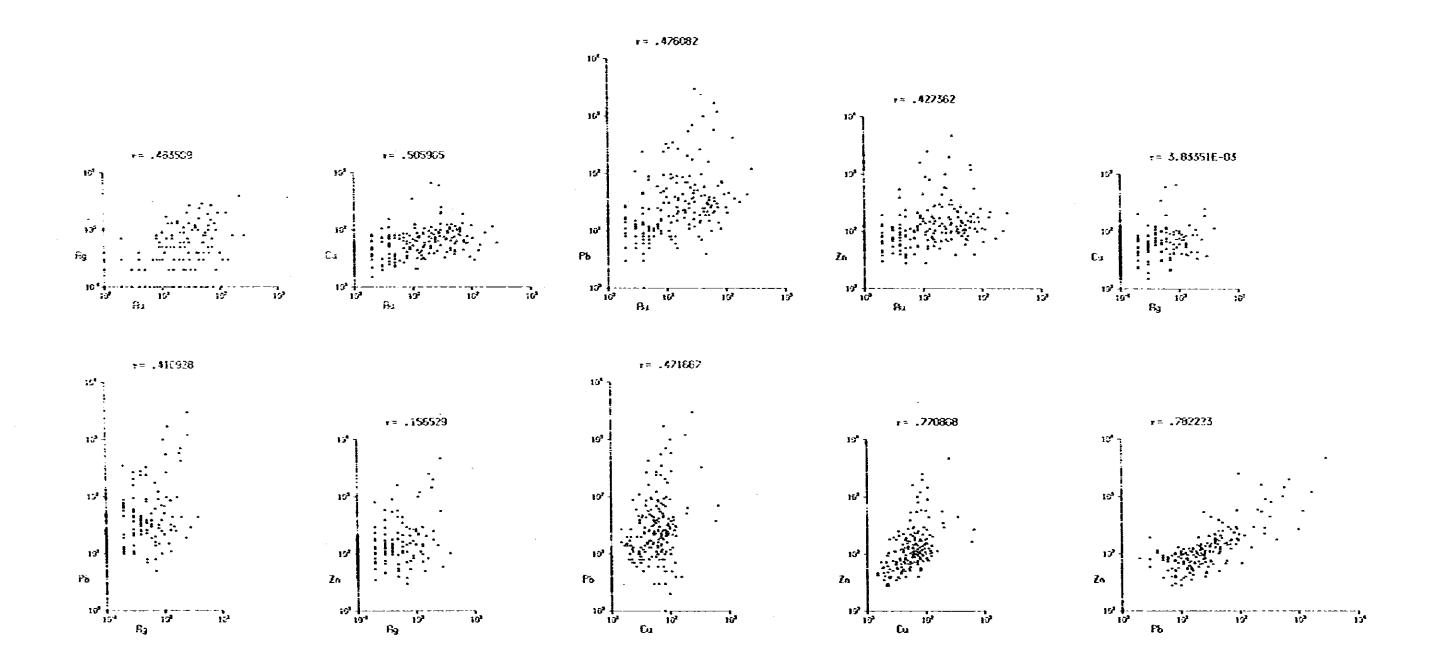
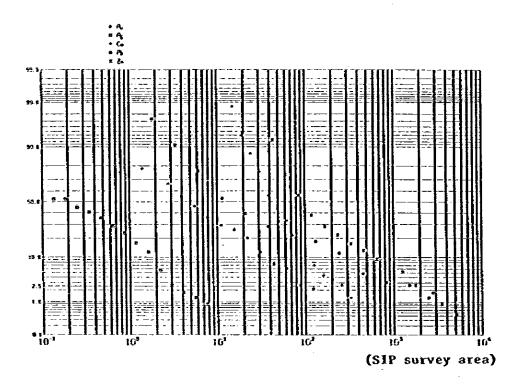


Fig. 11-3-19 Coefficient of Correlation of Geochemical Path-finder Elements in Huara Sipongi Area B (SIP survey area)



Coefficient of Correlation of Geochemical Path-finder Elements in Huara Sipongi Area B (Outside area of SIP survey)



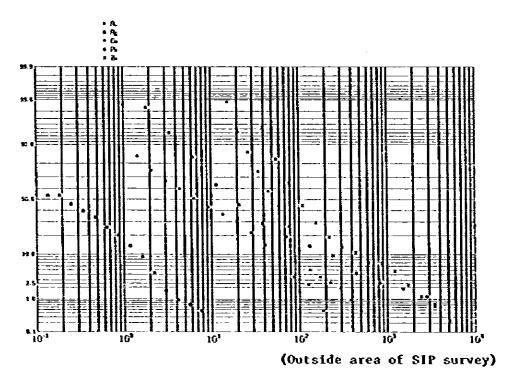
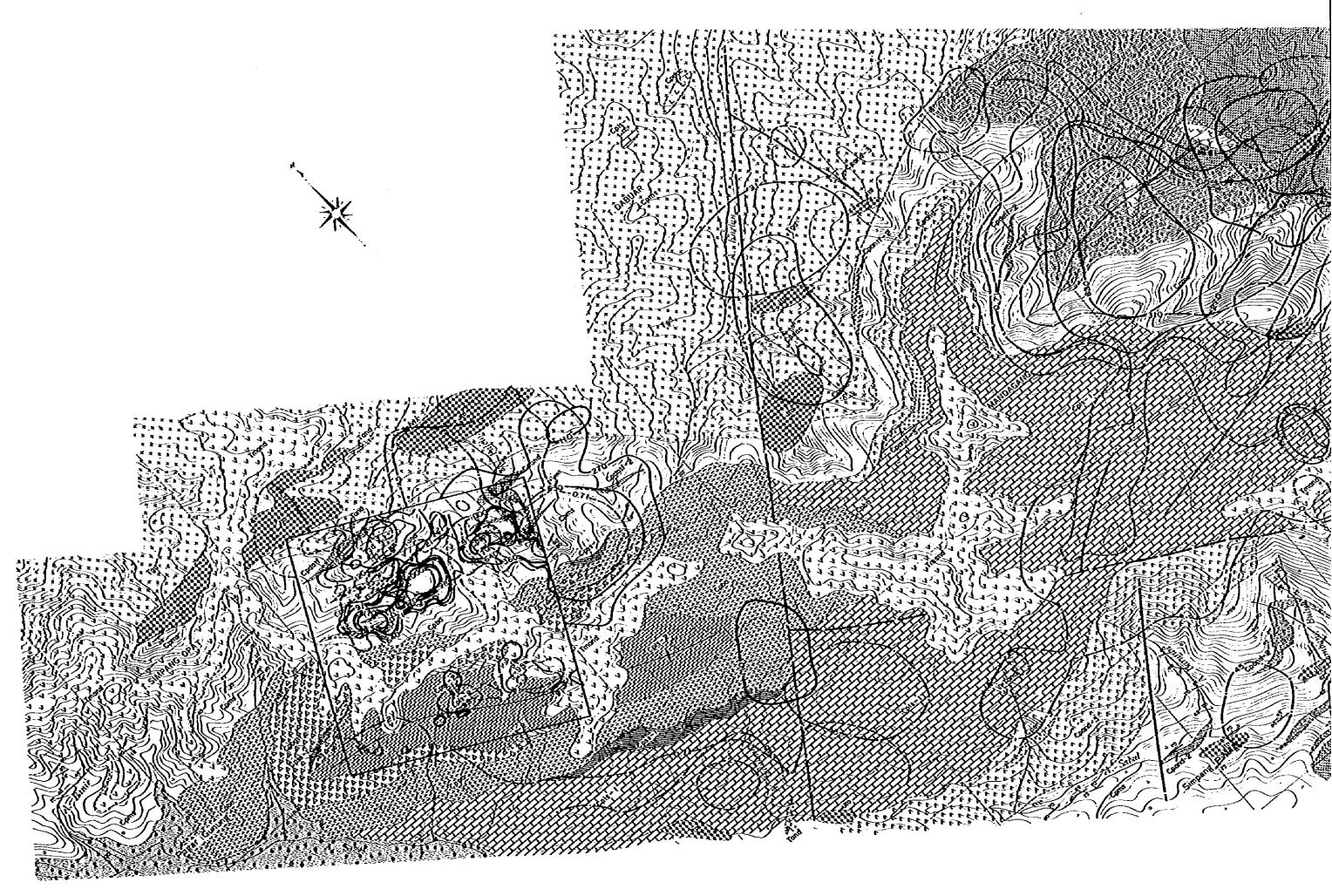


Fig. II-3-20 Cumulative Procuency Distribution of Ceecherical Path-fiteer Elements, in Puara Sipong! Area B

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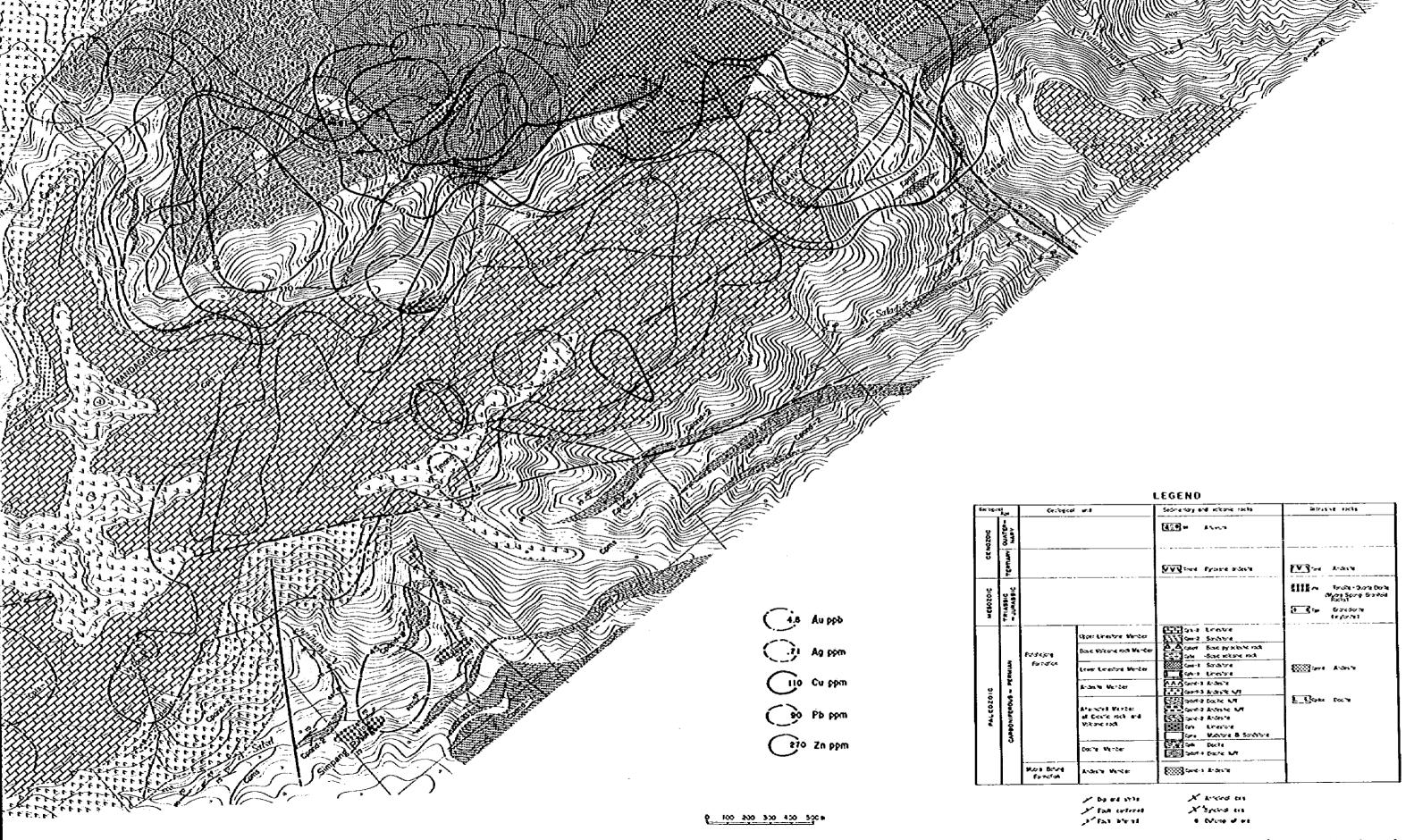
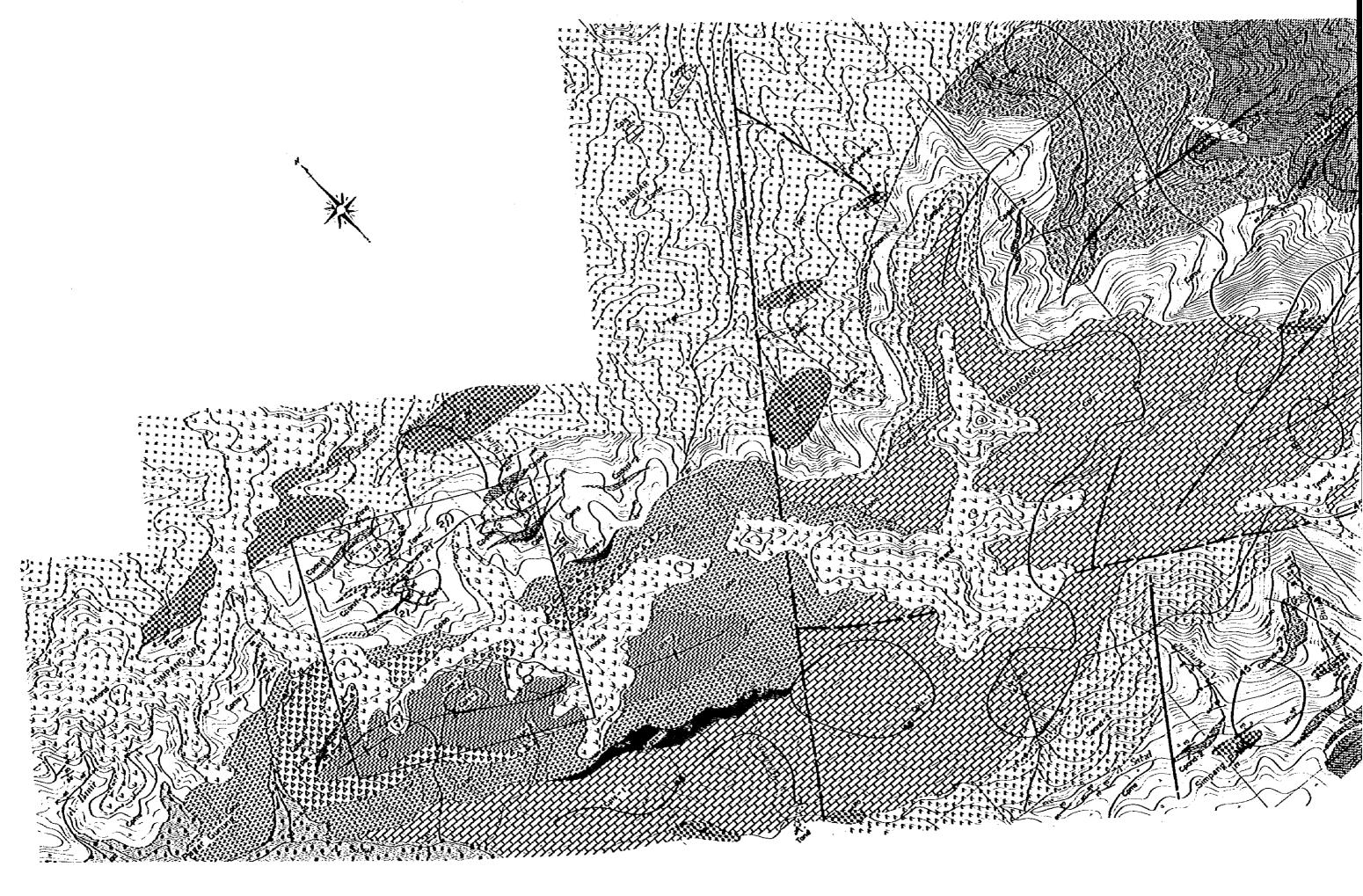


Fig. II-3-21 Map of Geochemical Anomaly in Huara Sipongi Area B (Au, Ag, Cu, Pb, Zn)



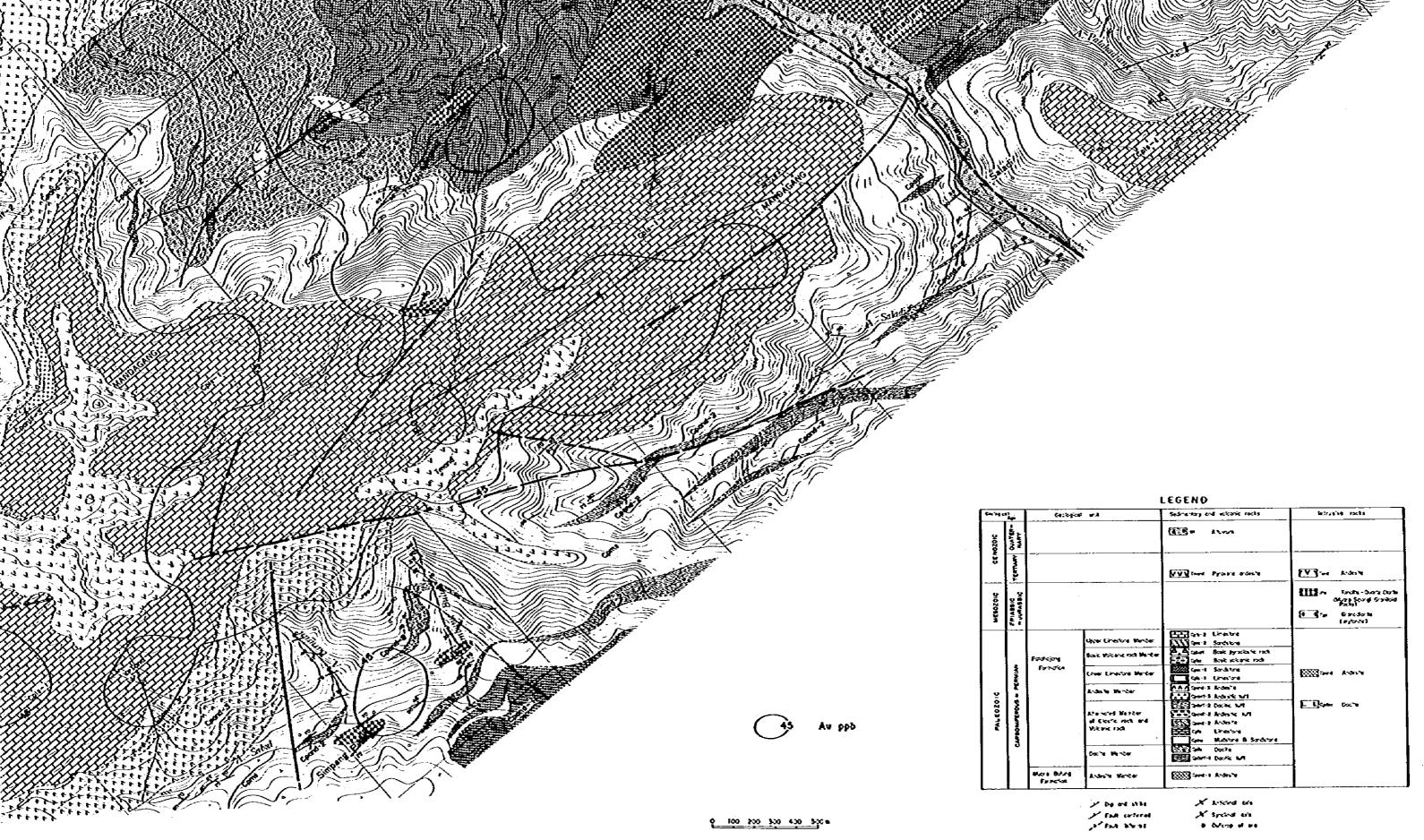
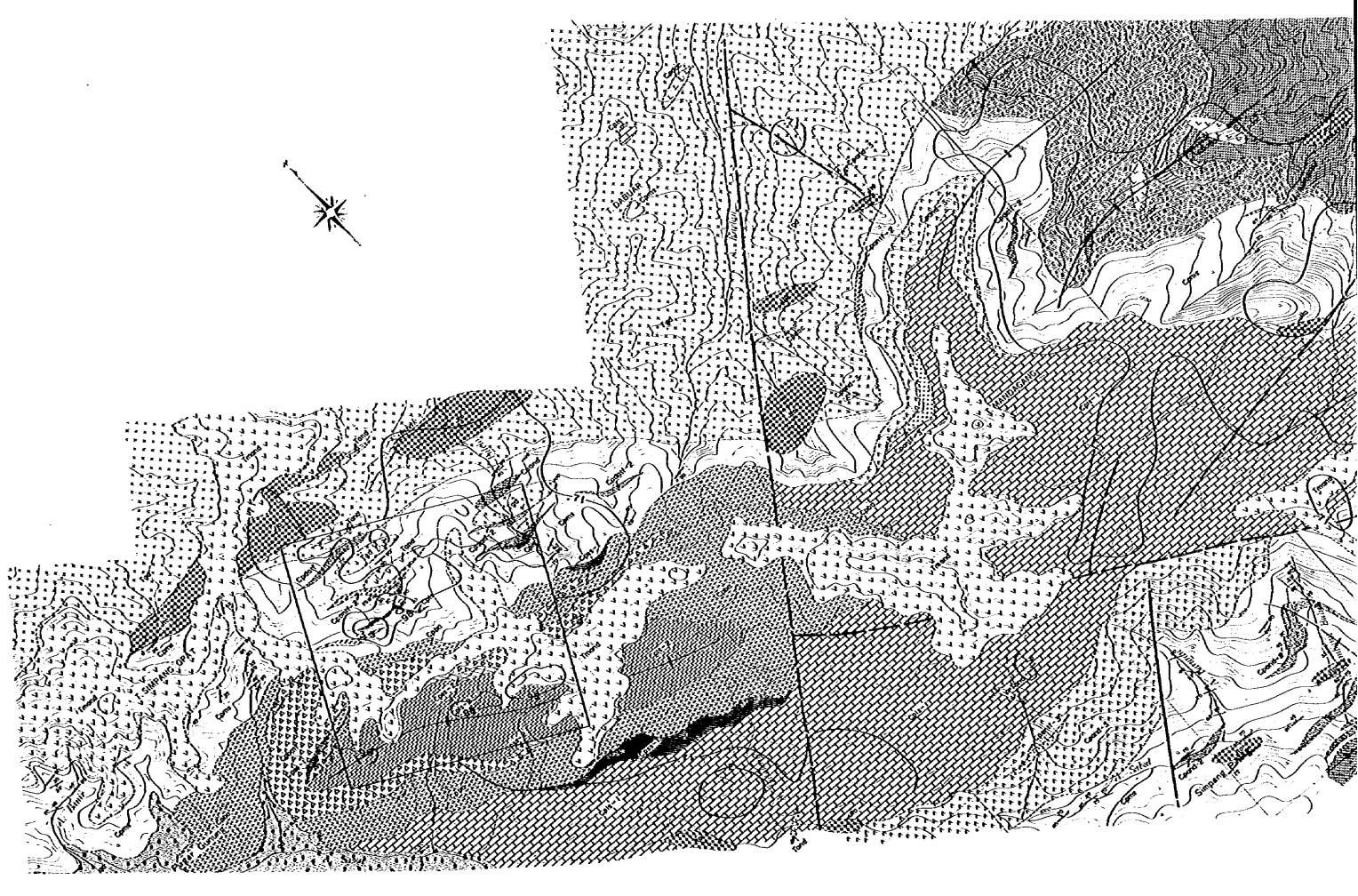


Fig. 11-3-22 Hap of Geochemical Anomaly in Huara Sipongi Area B (Au)



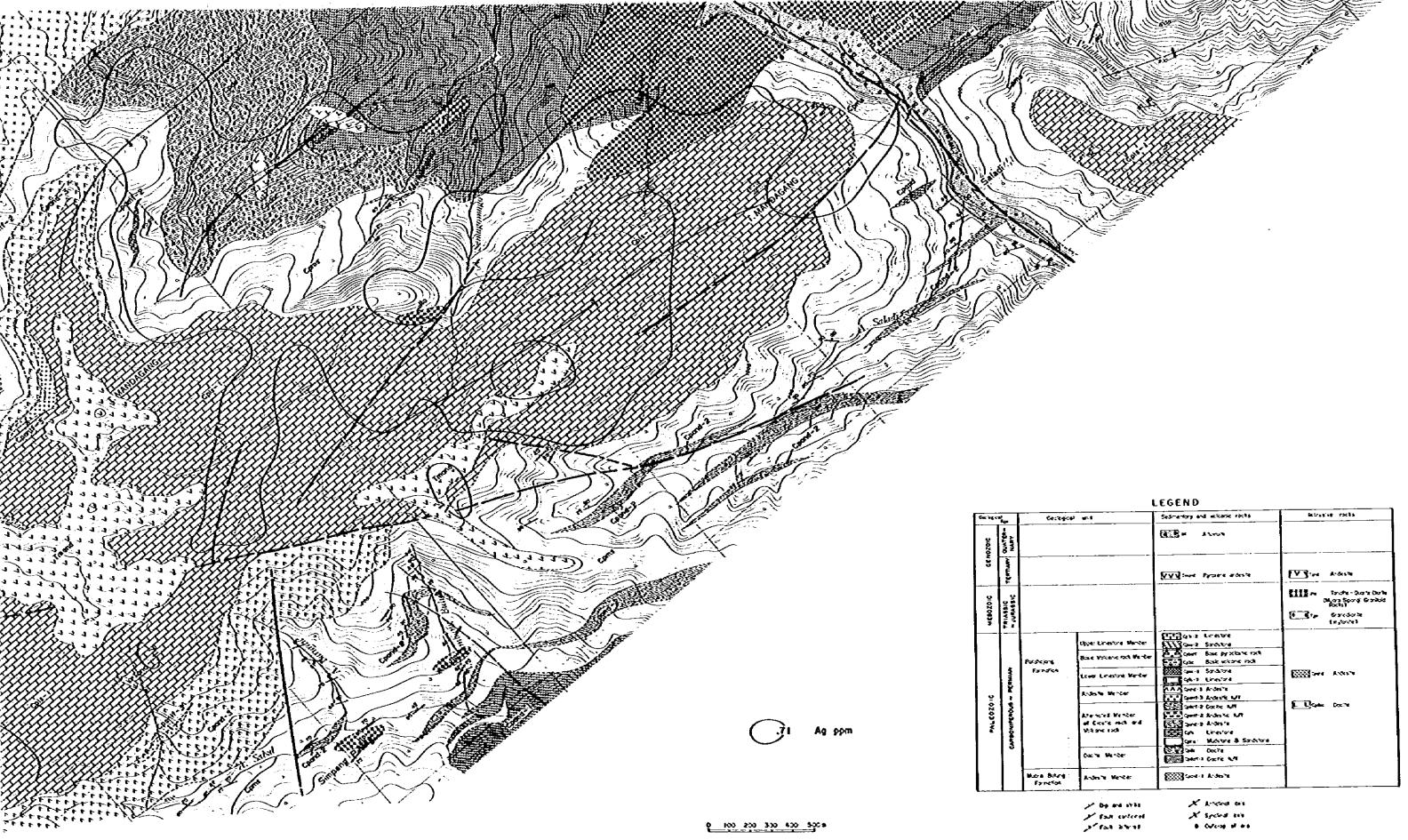
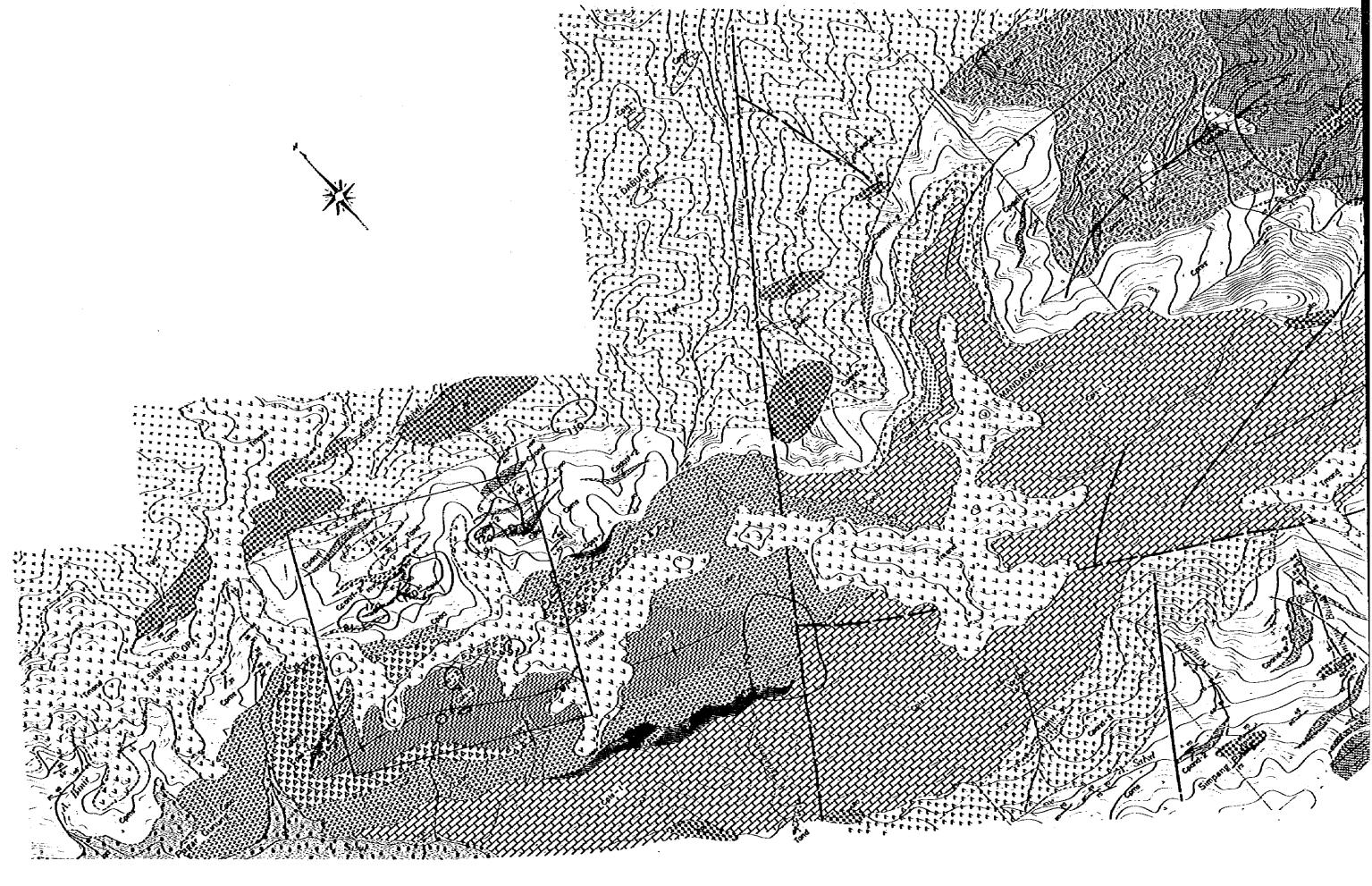


Fig. 11-3-23 Hap of Geochemical Anomaly in Muara Sipongi Area B (Ag)



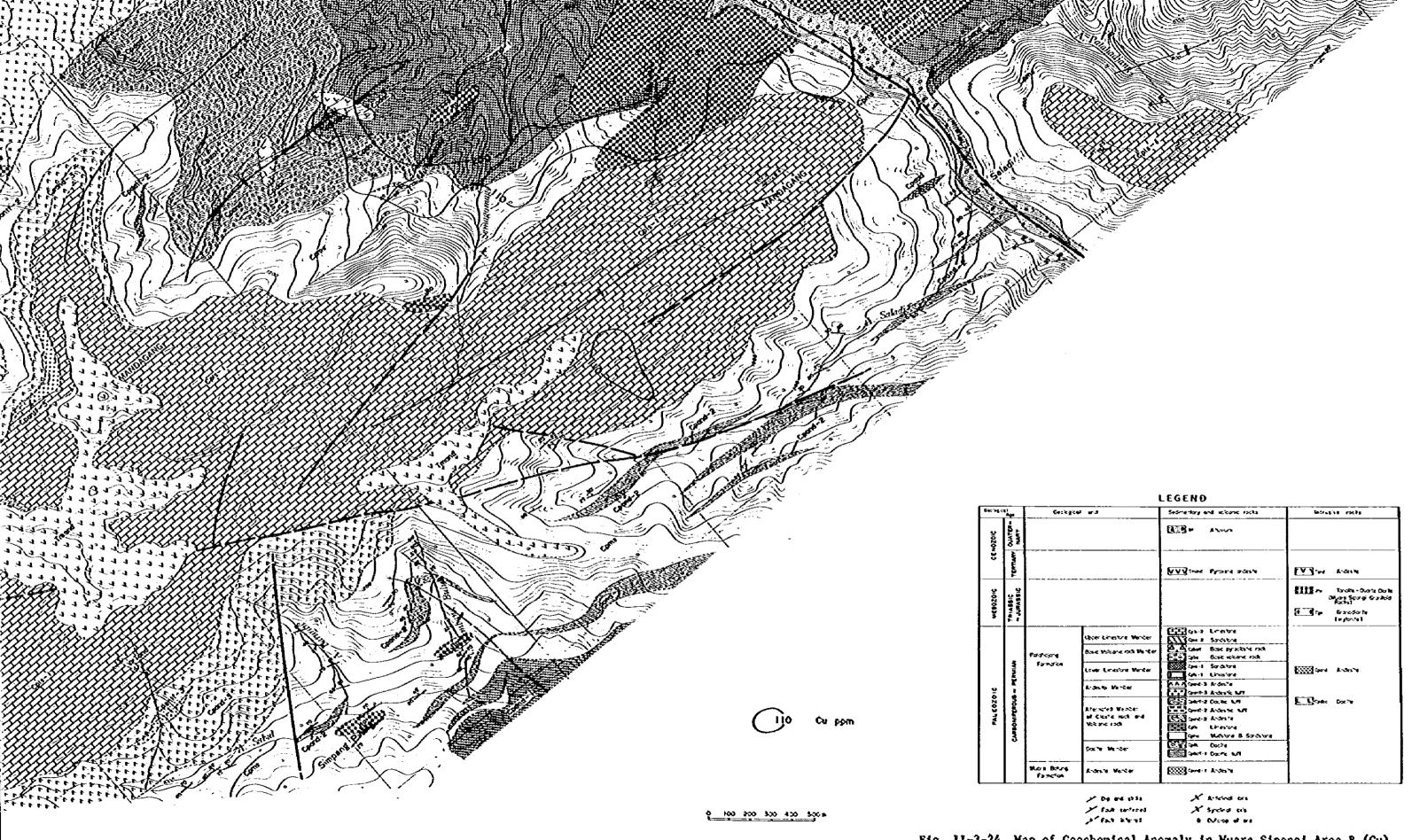
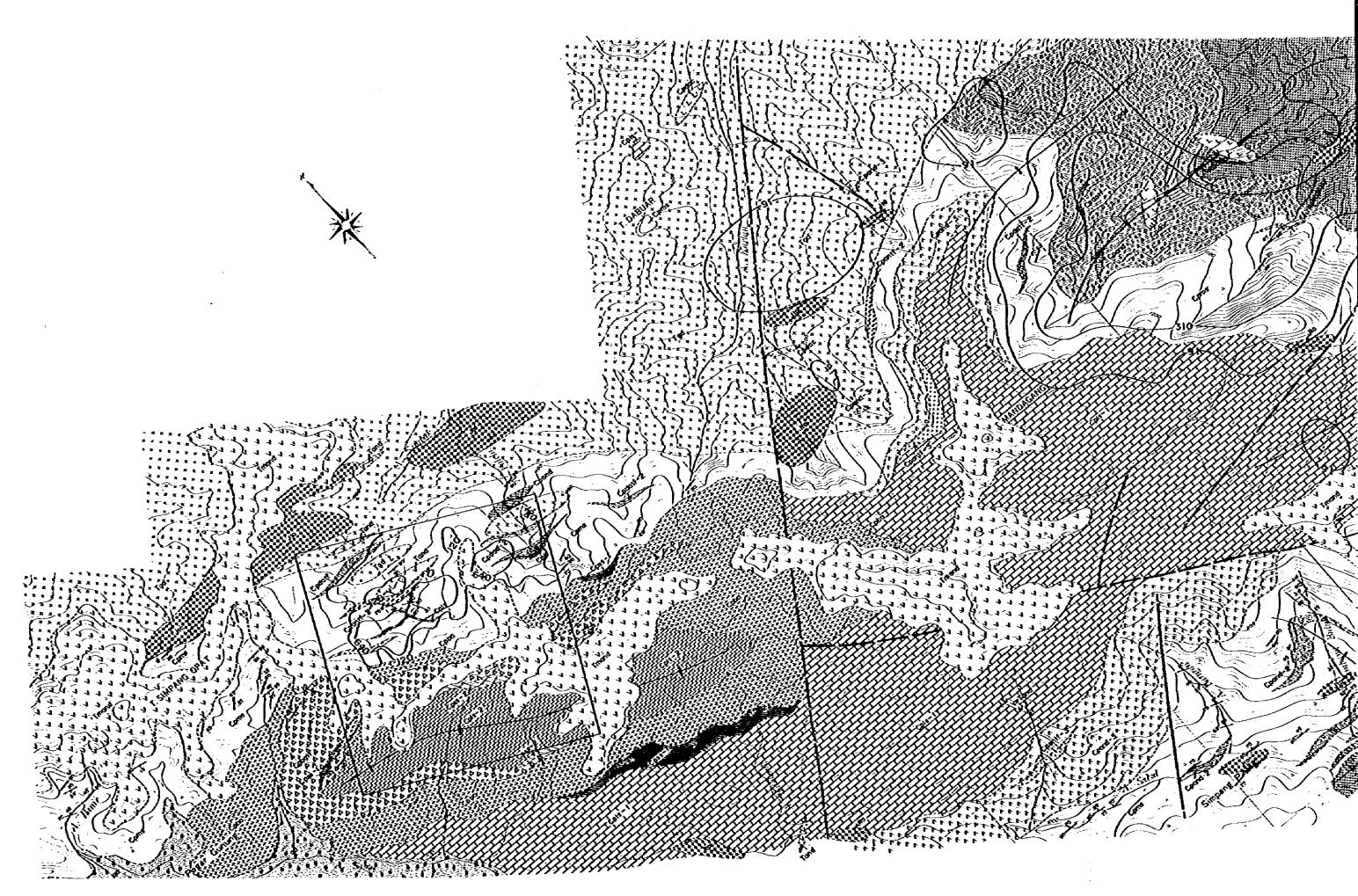


Fig. 11-3-24 Hap of Geochemical Anomaly in Kuara Sipongi Area B (Cu)



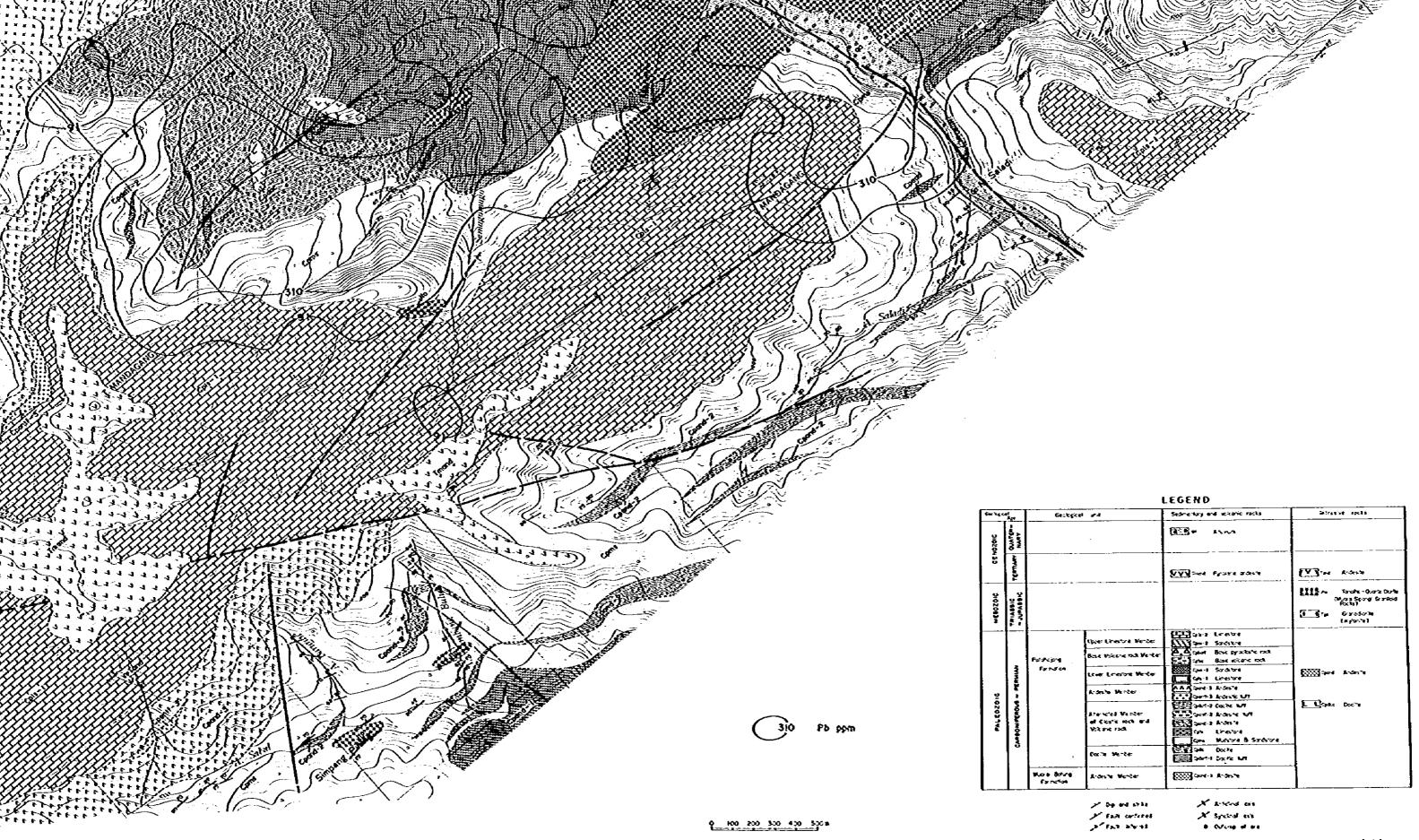
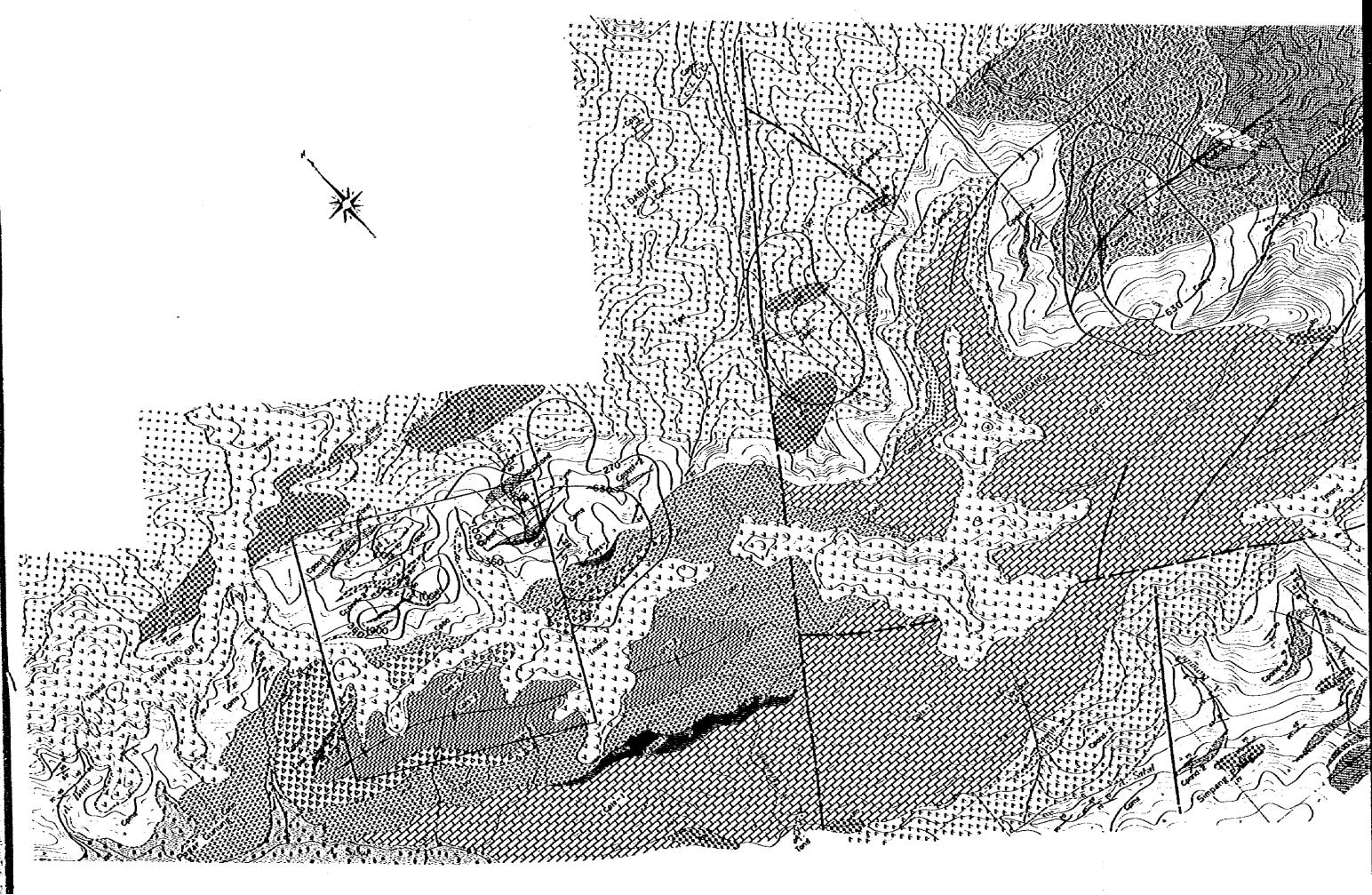


Fig. 11-3-25 Hap of Geochemical Anomaly in Kuara Sipongi Area B (Pb)



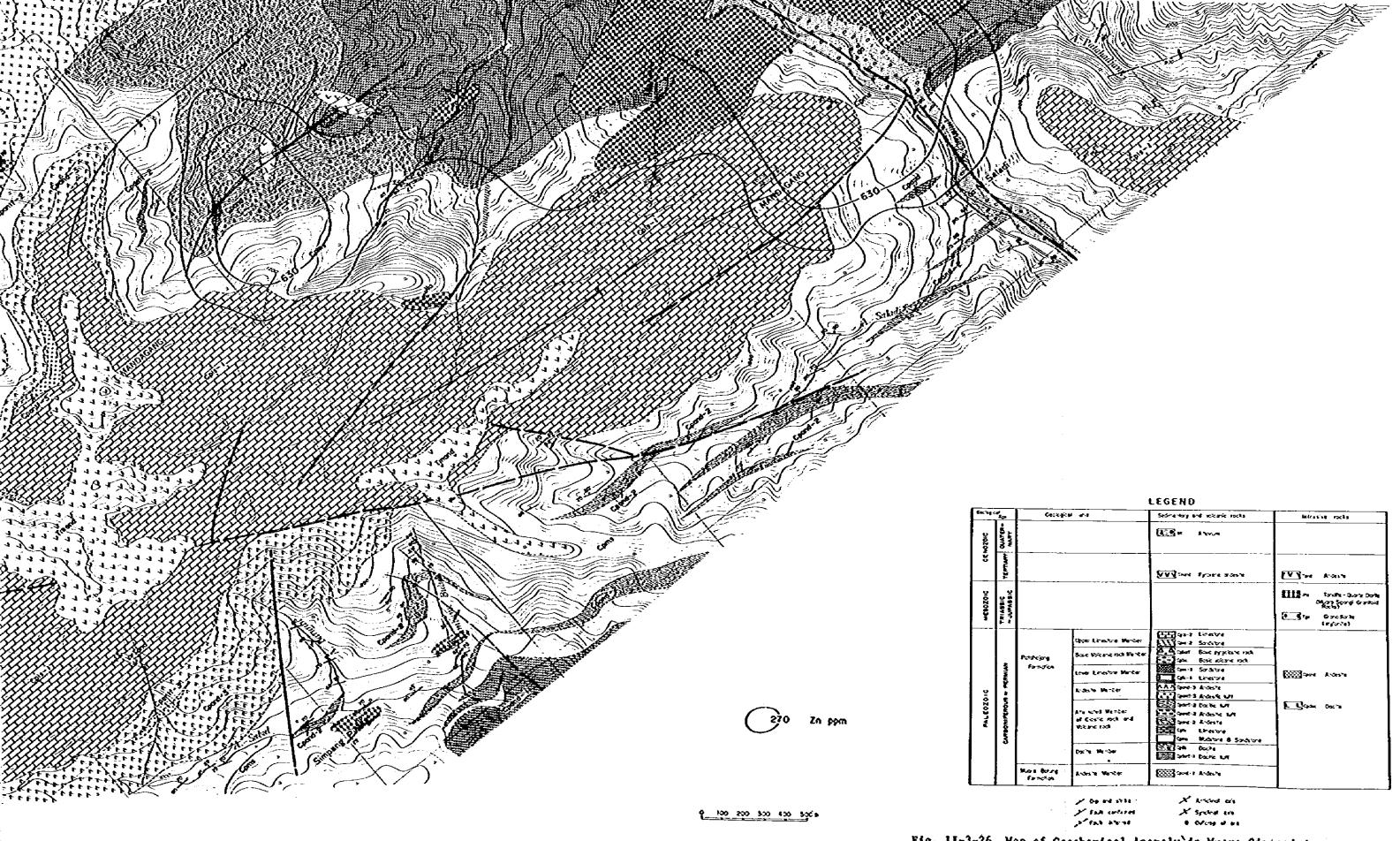
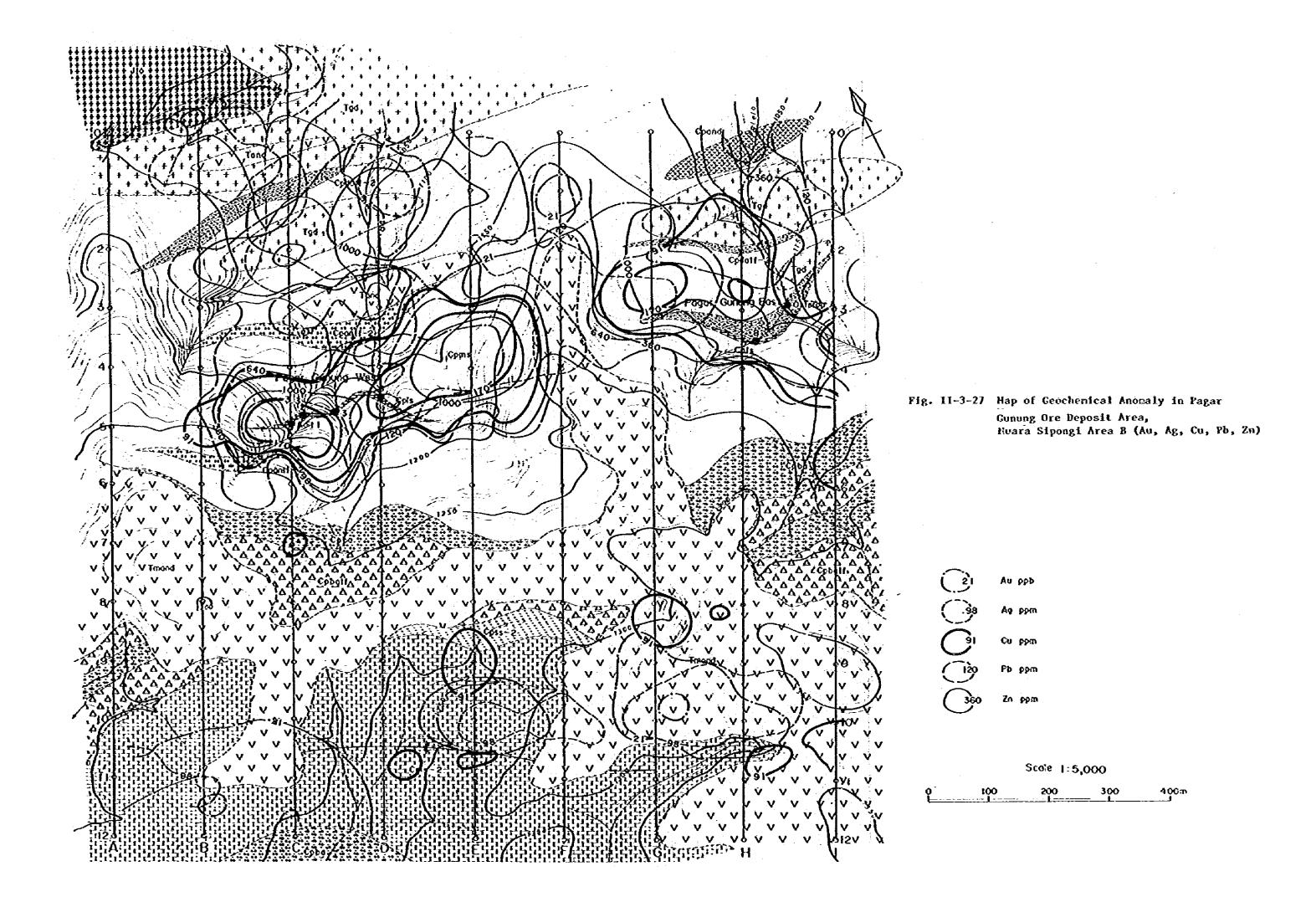
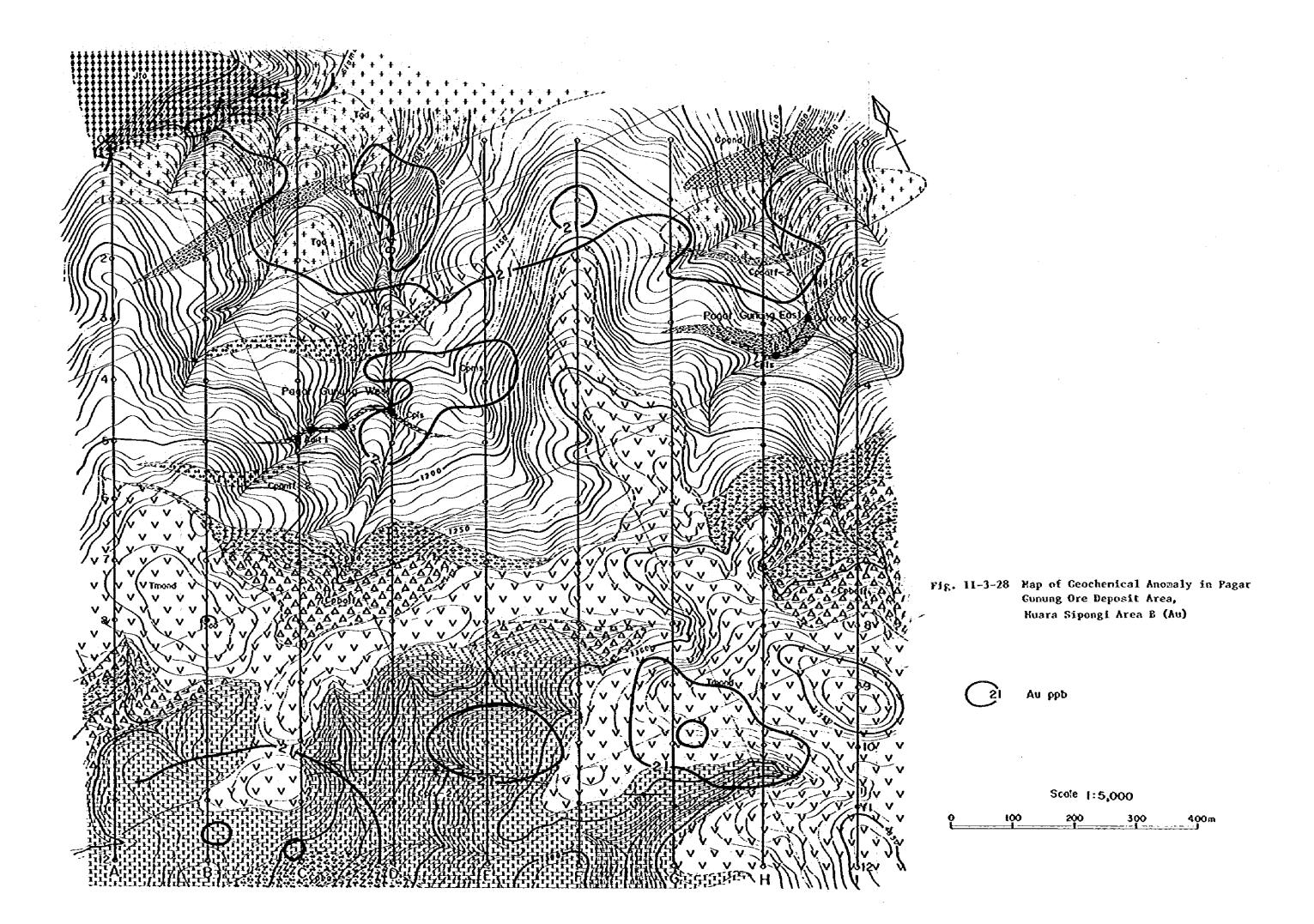
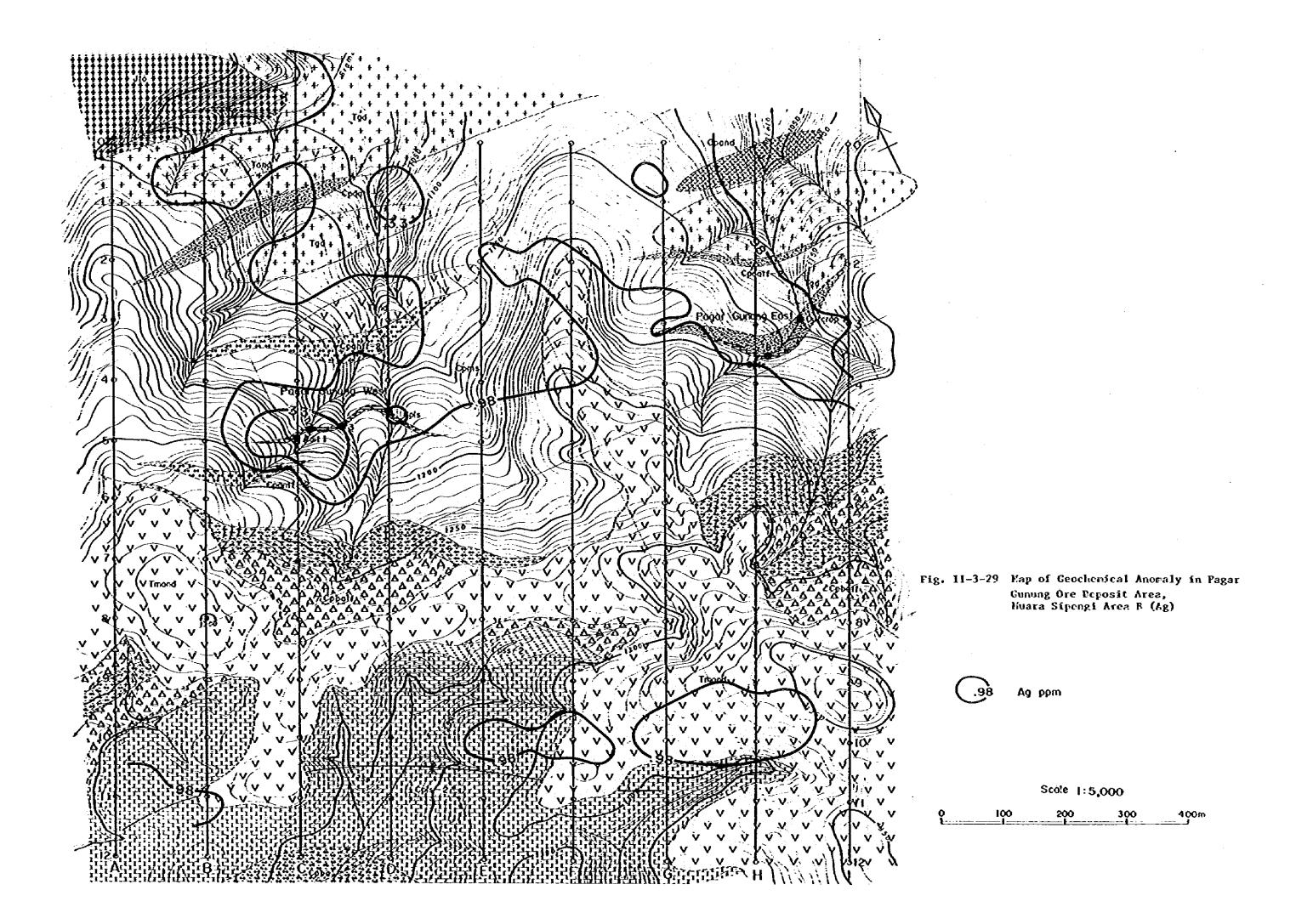
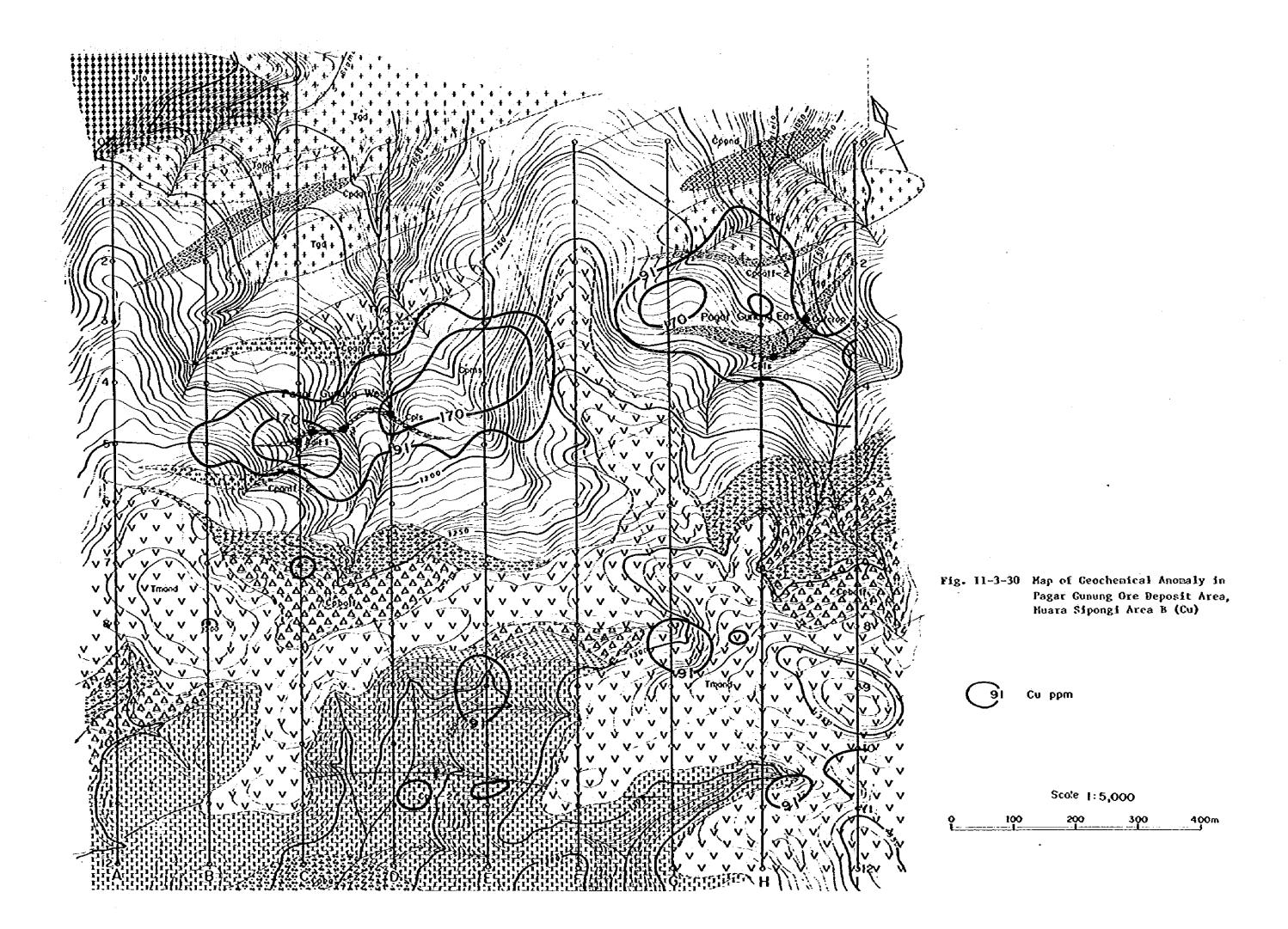


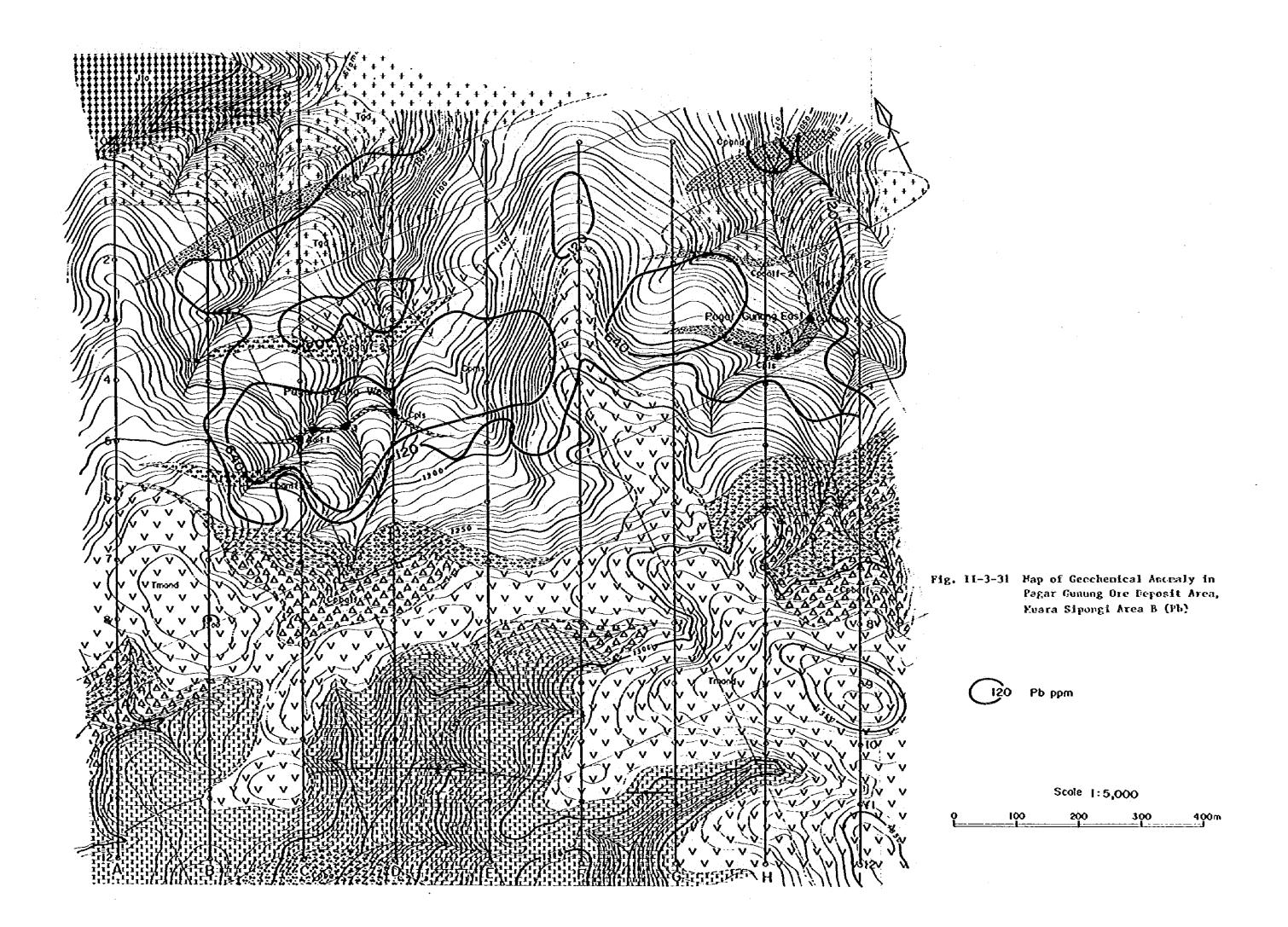
Fig. 11-3-26 Hap of Geochemical Anomaly'in Huara Sipongi Area B (Zn)

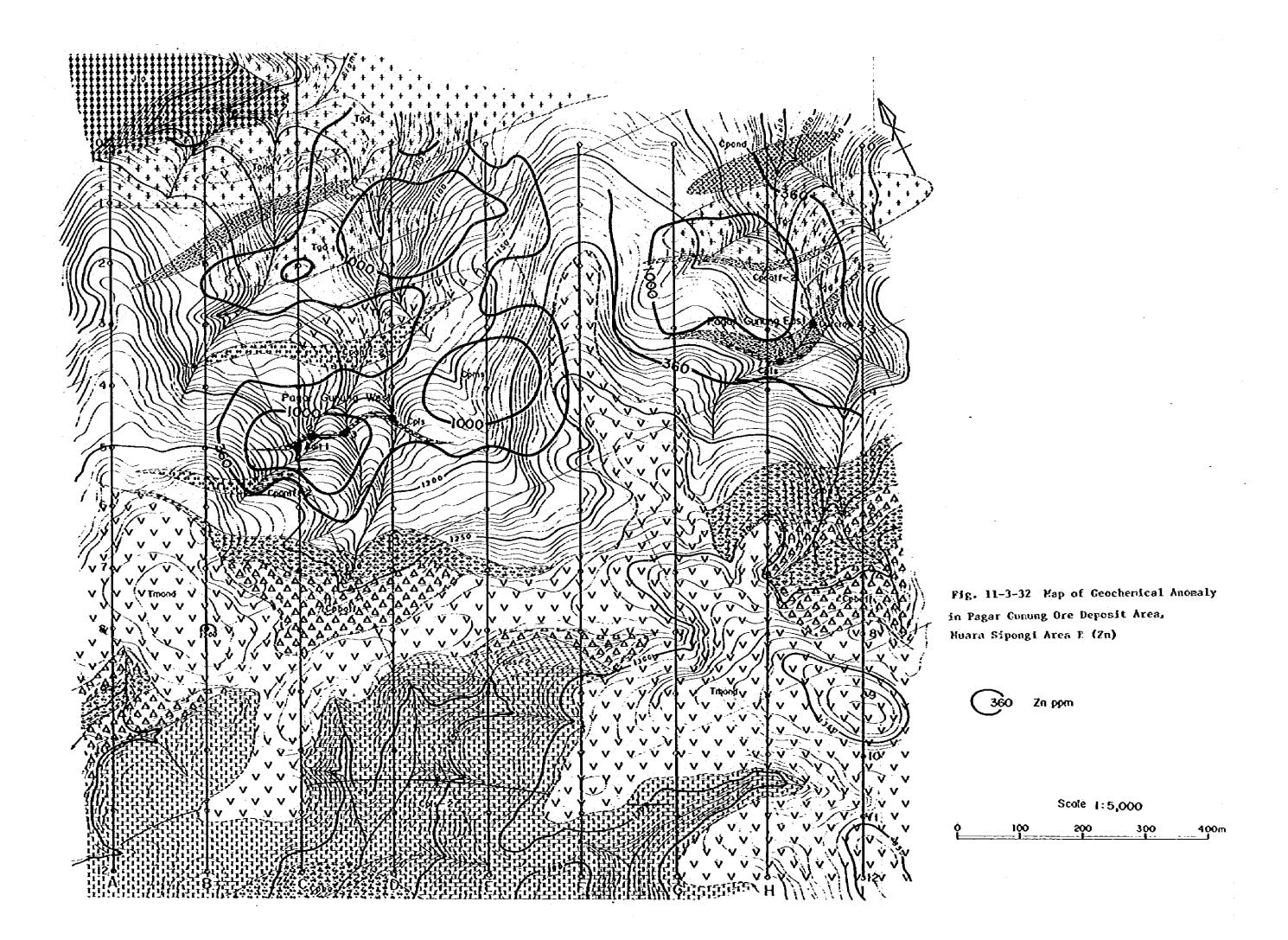












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