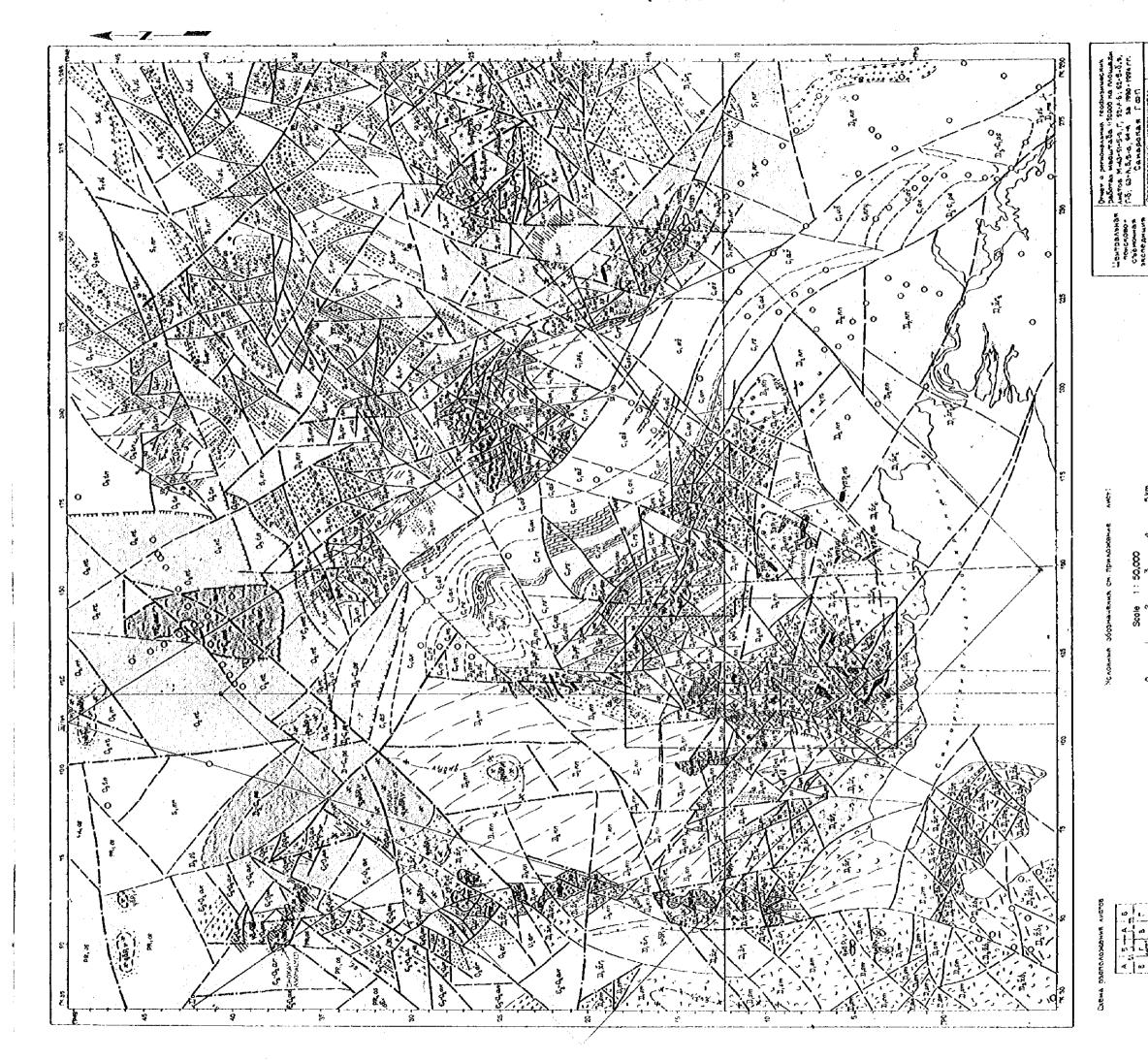


Plate III-2-2-3 The Result of Electric Surveys in the Samarsky Area (Scale 1:10,000)

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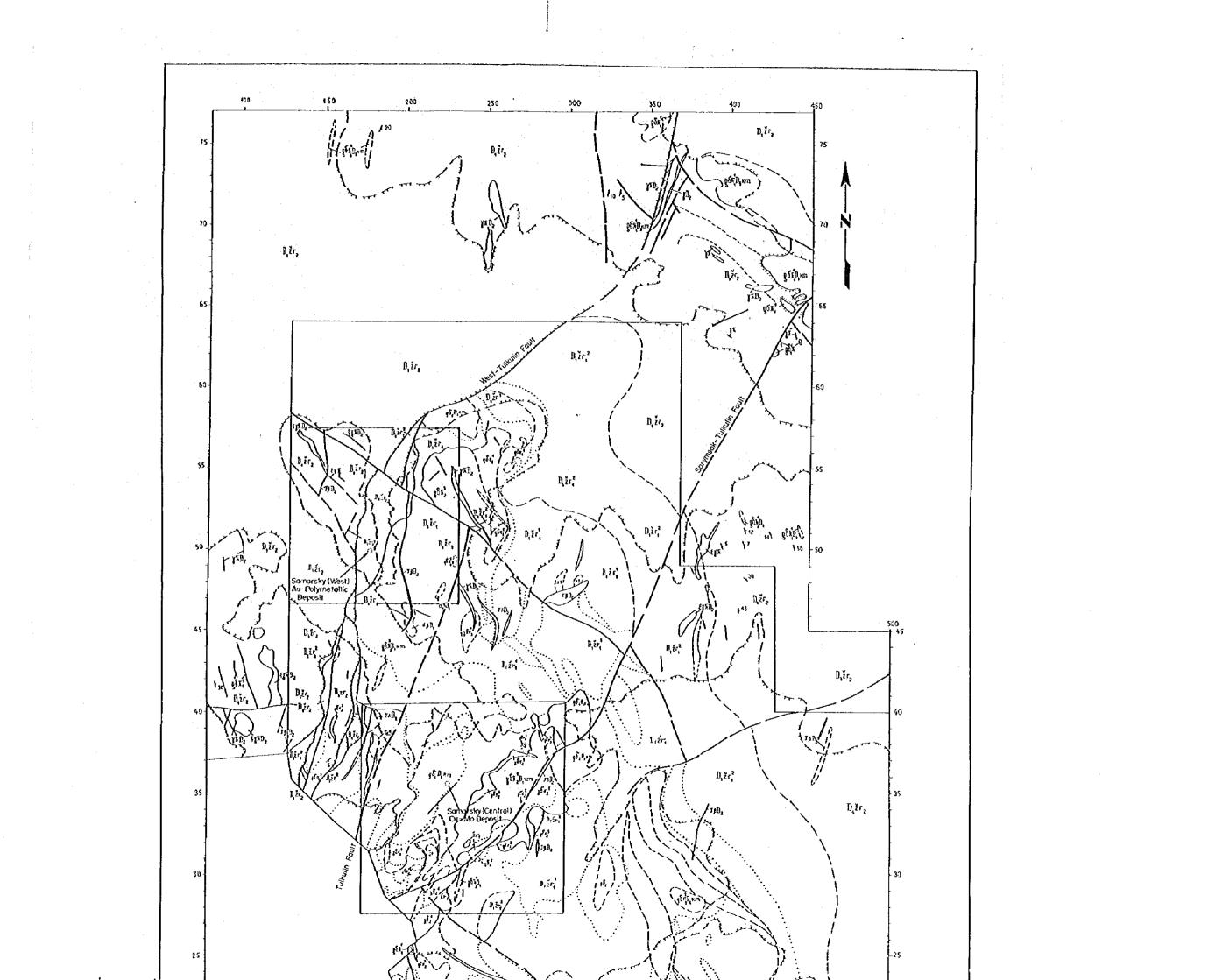
Plate III-2-3-1 Geological Map in the Samarsky Area (Scale 1:50,000) Originally Properties Nursey Expedition, 1994

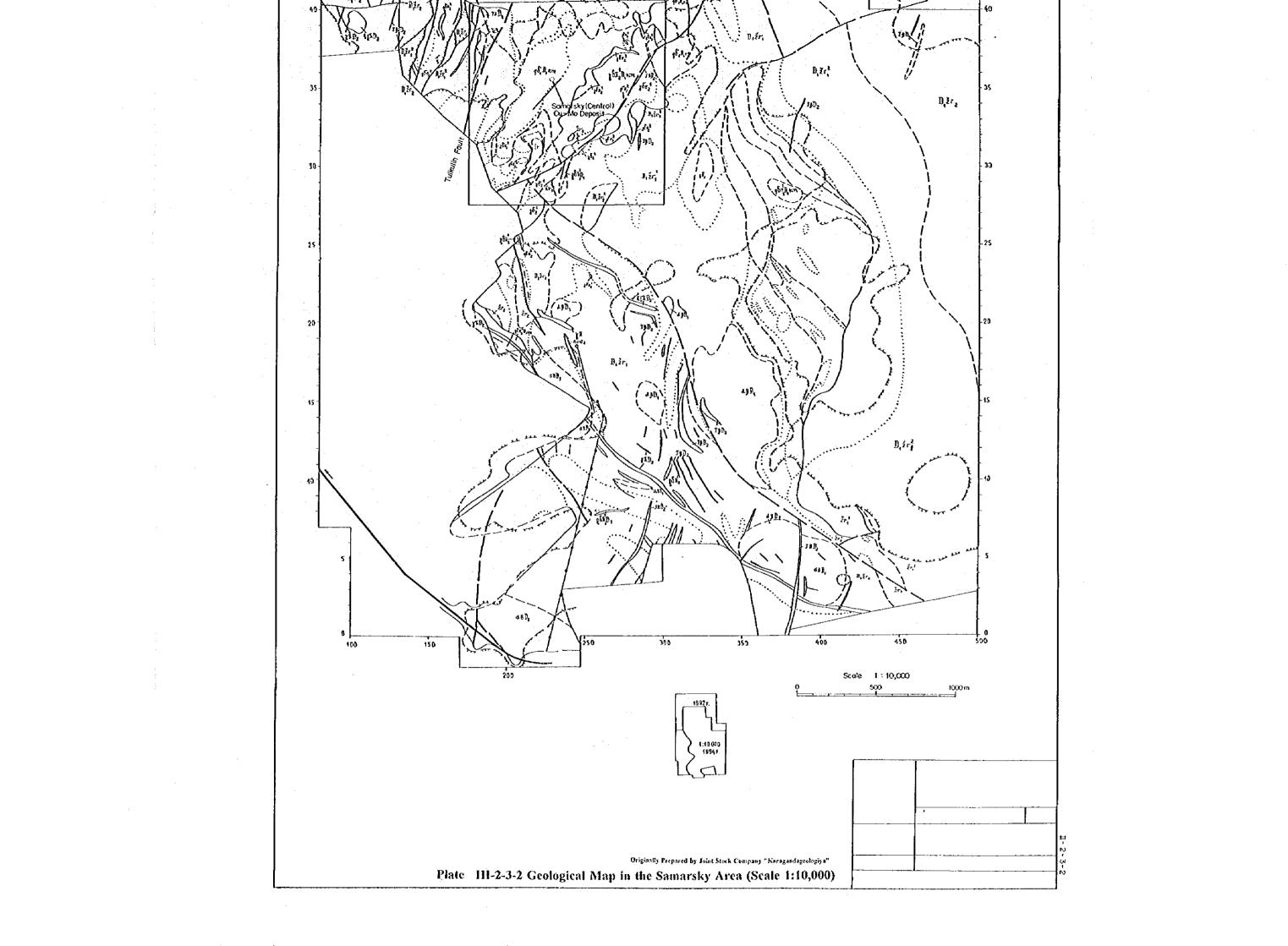
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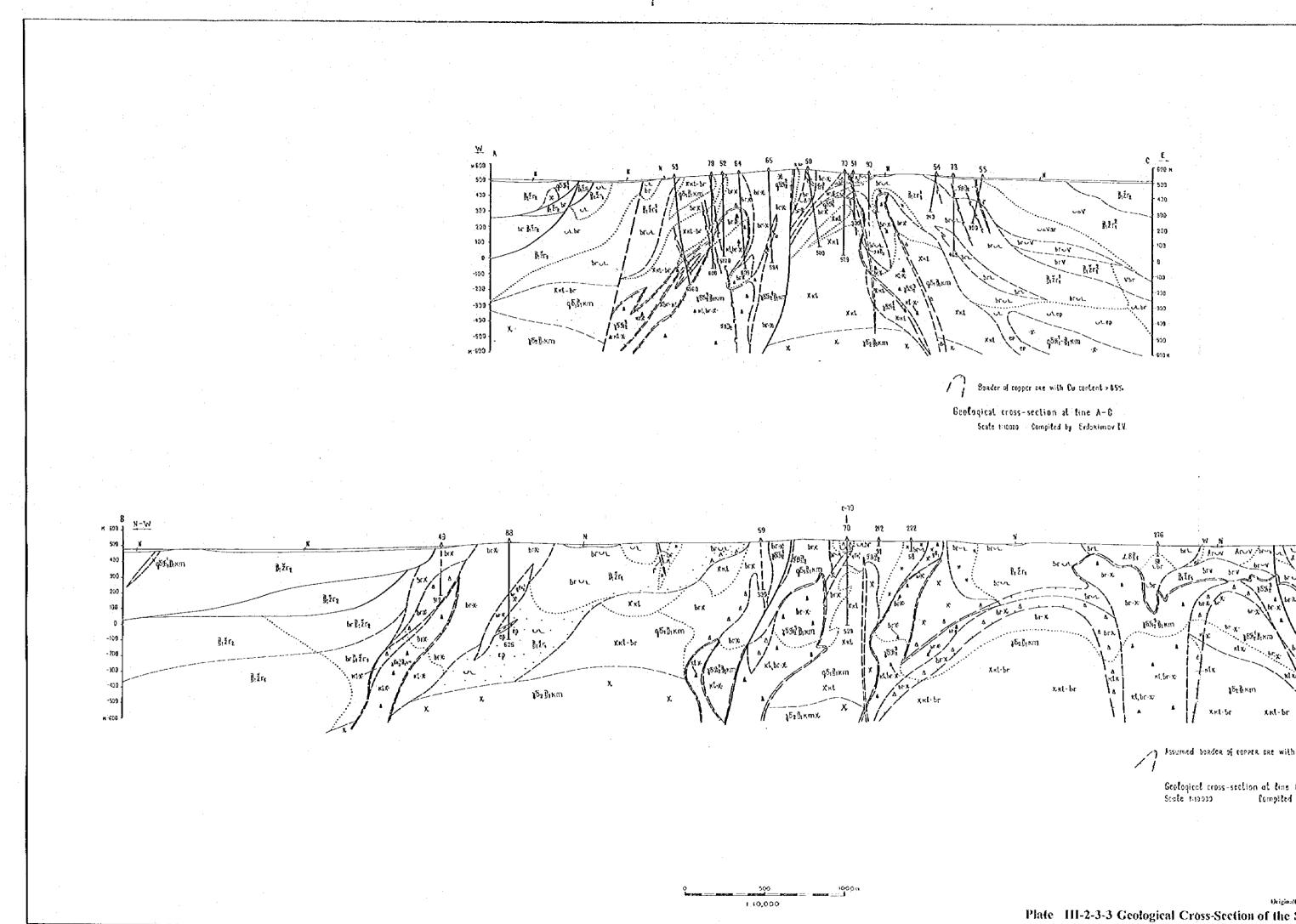
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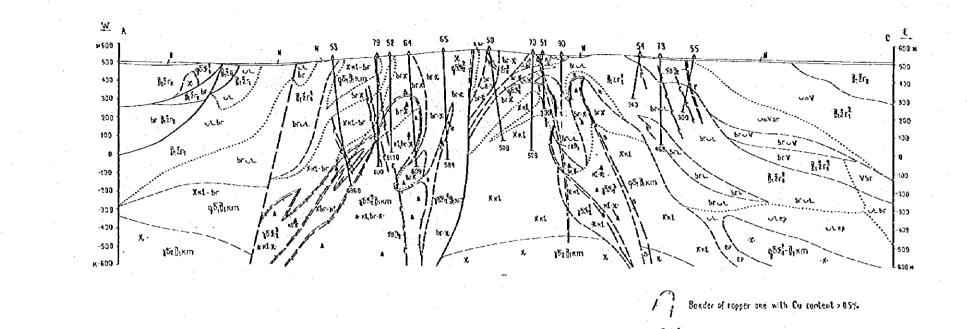
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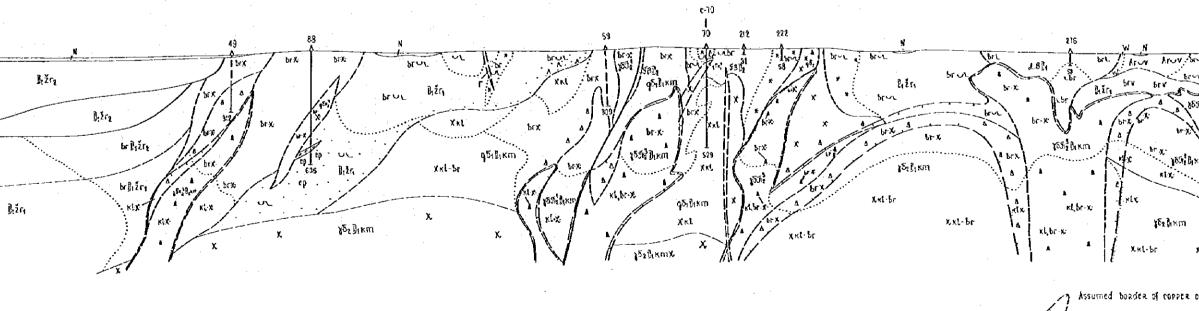


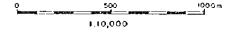


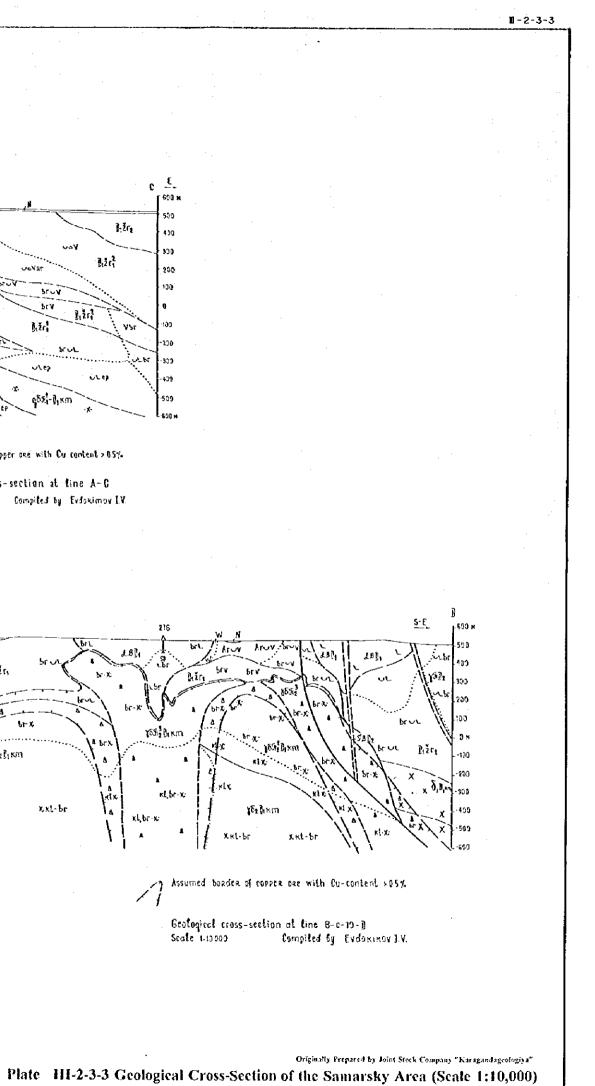


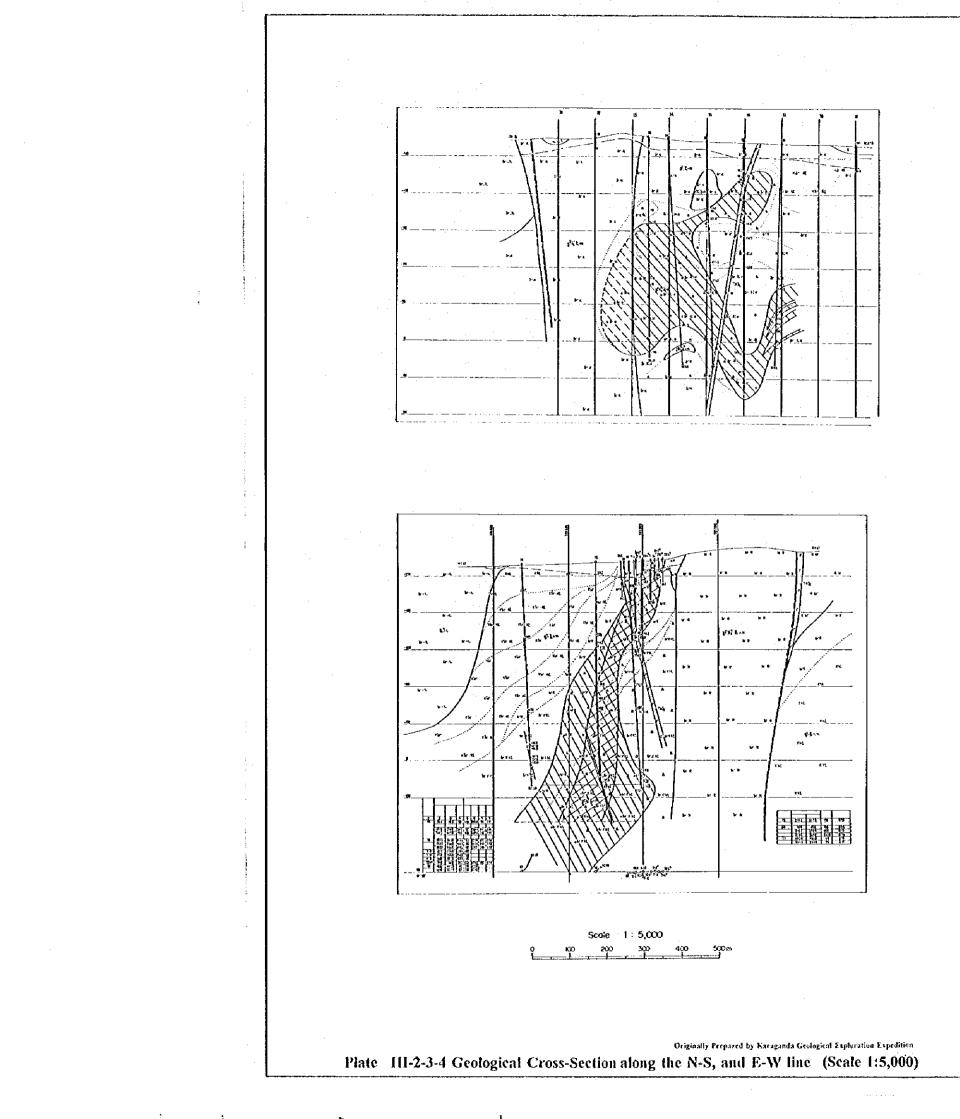


Sealogical cross-section at line A-G Scale massa Compiled by Evdoximov I.V.

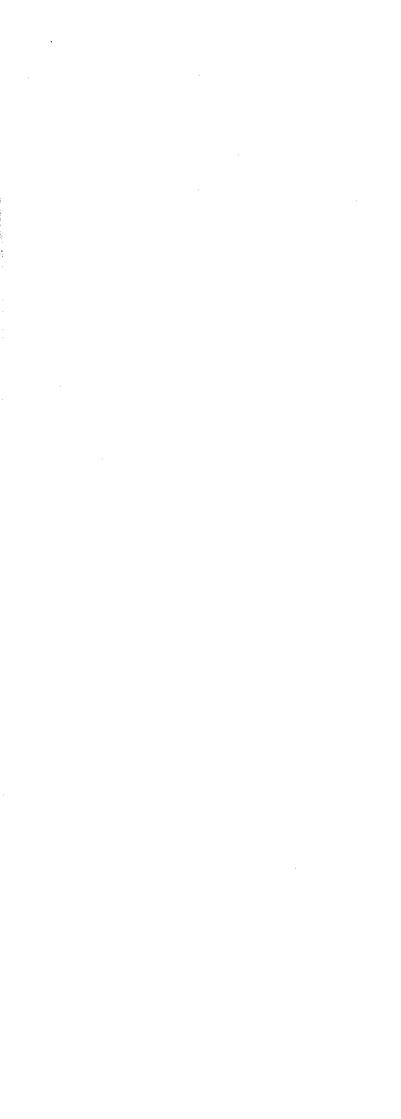








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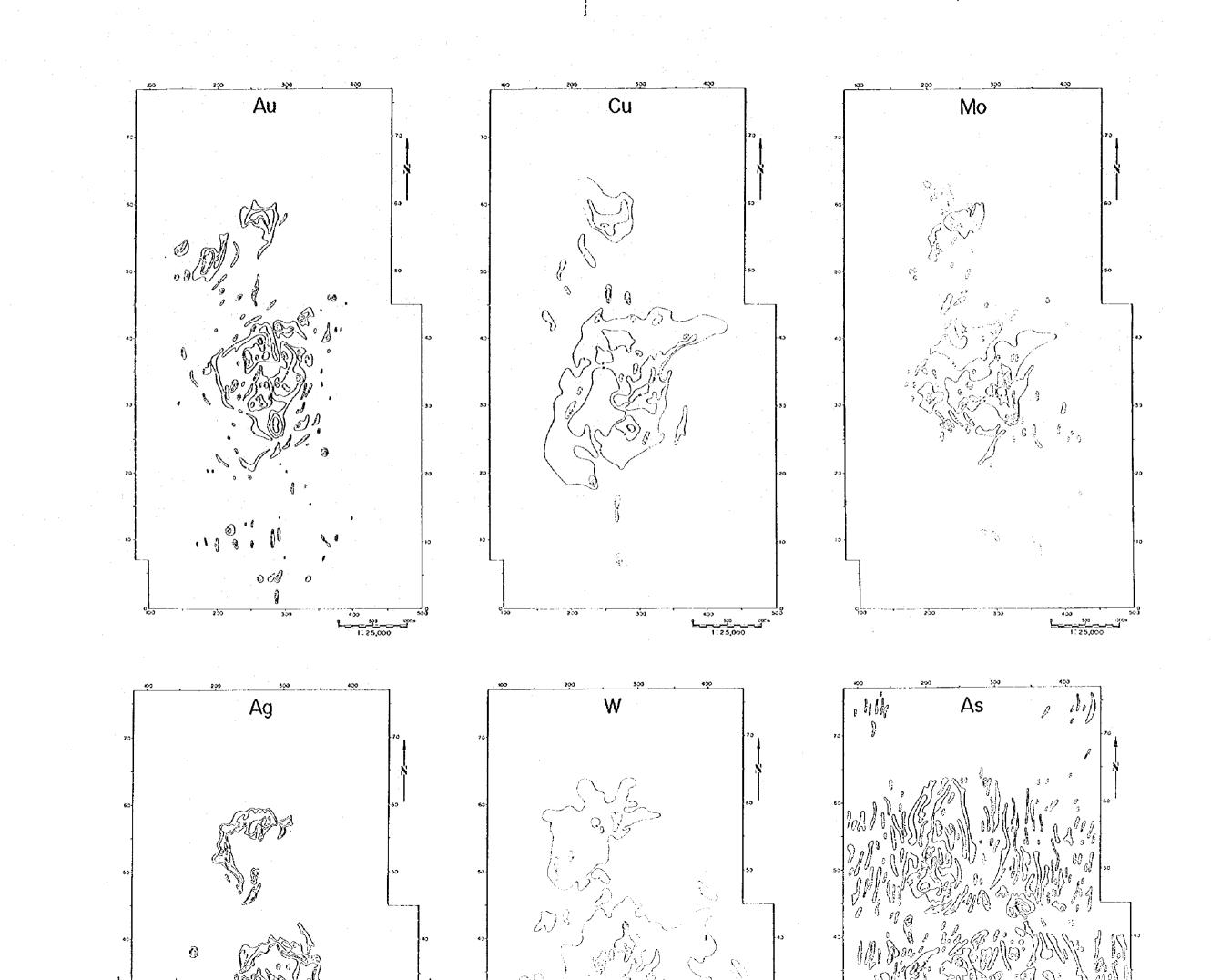
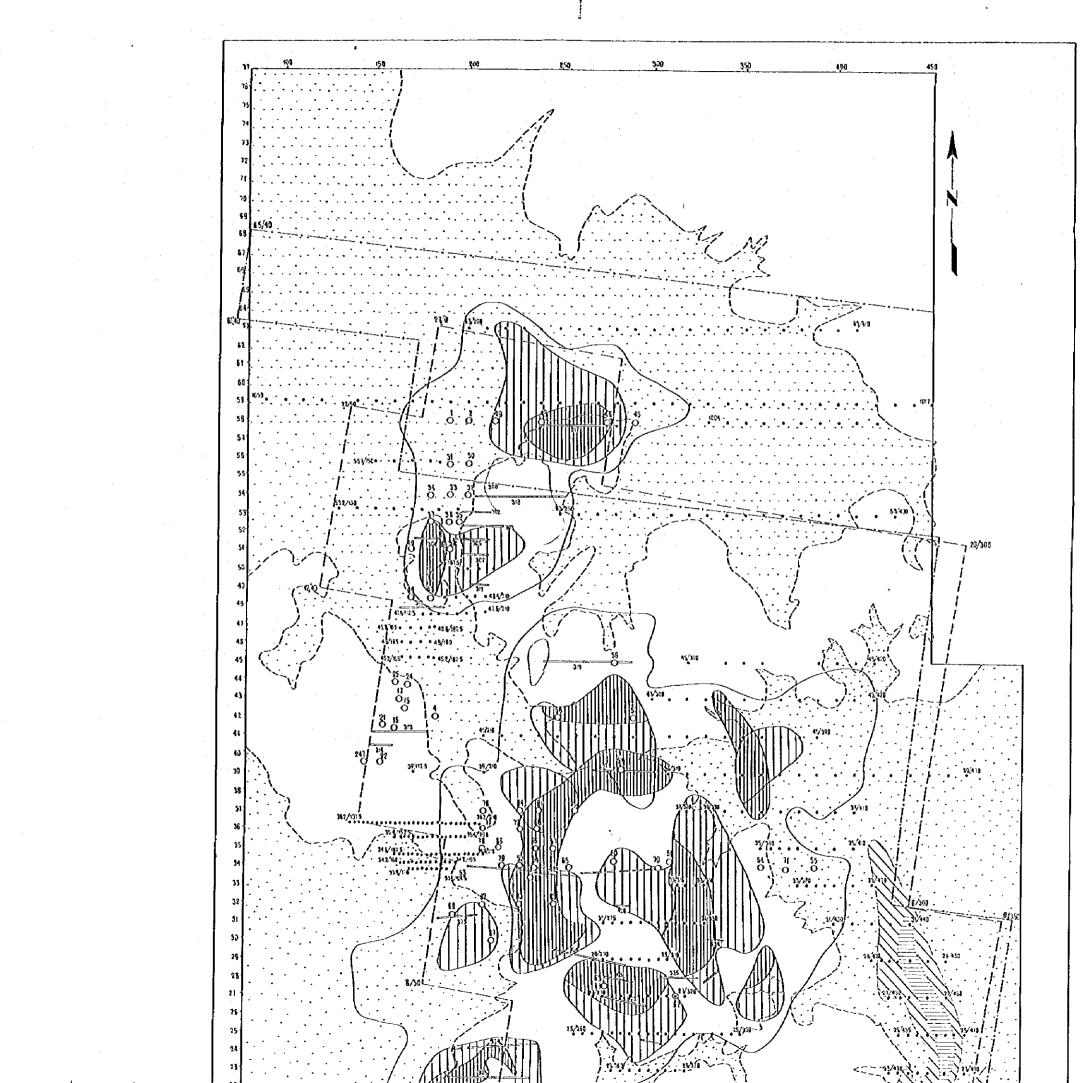
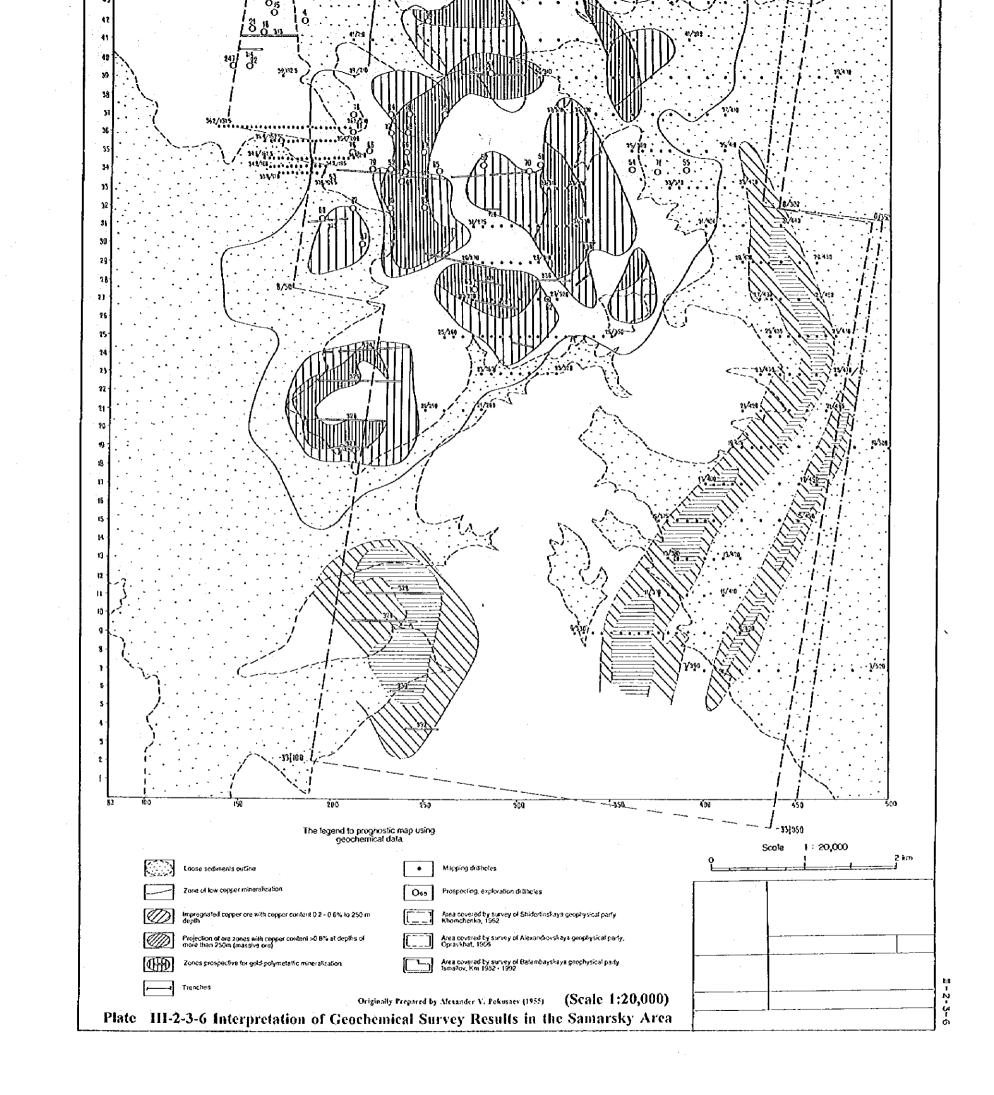
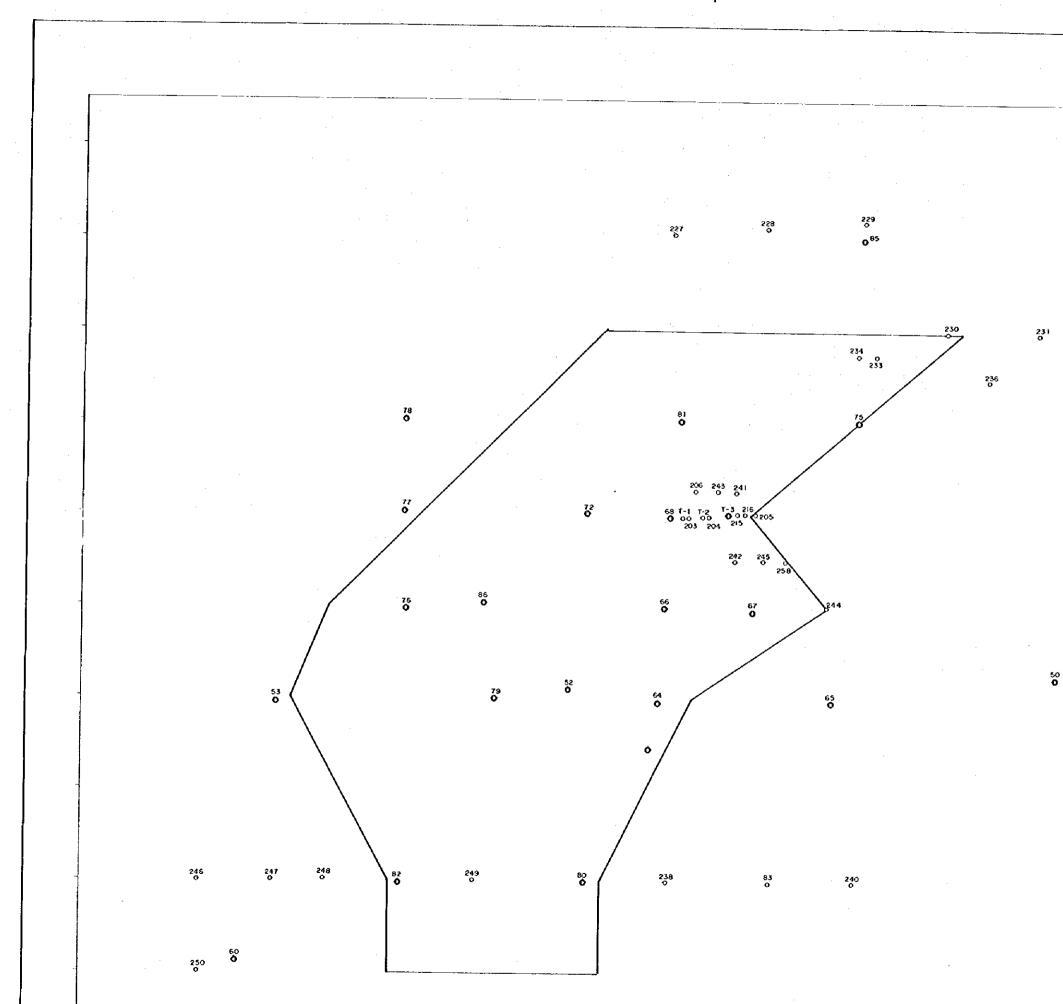


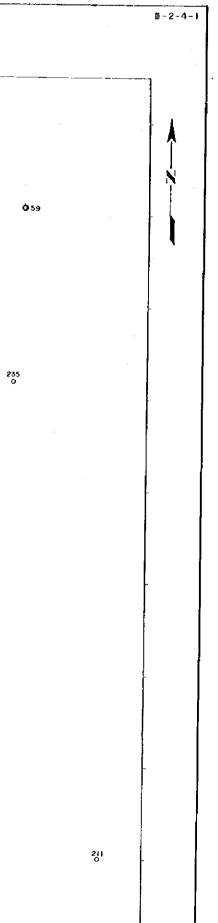


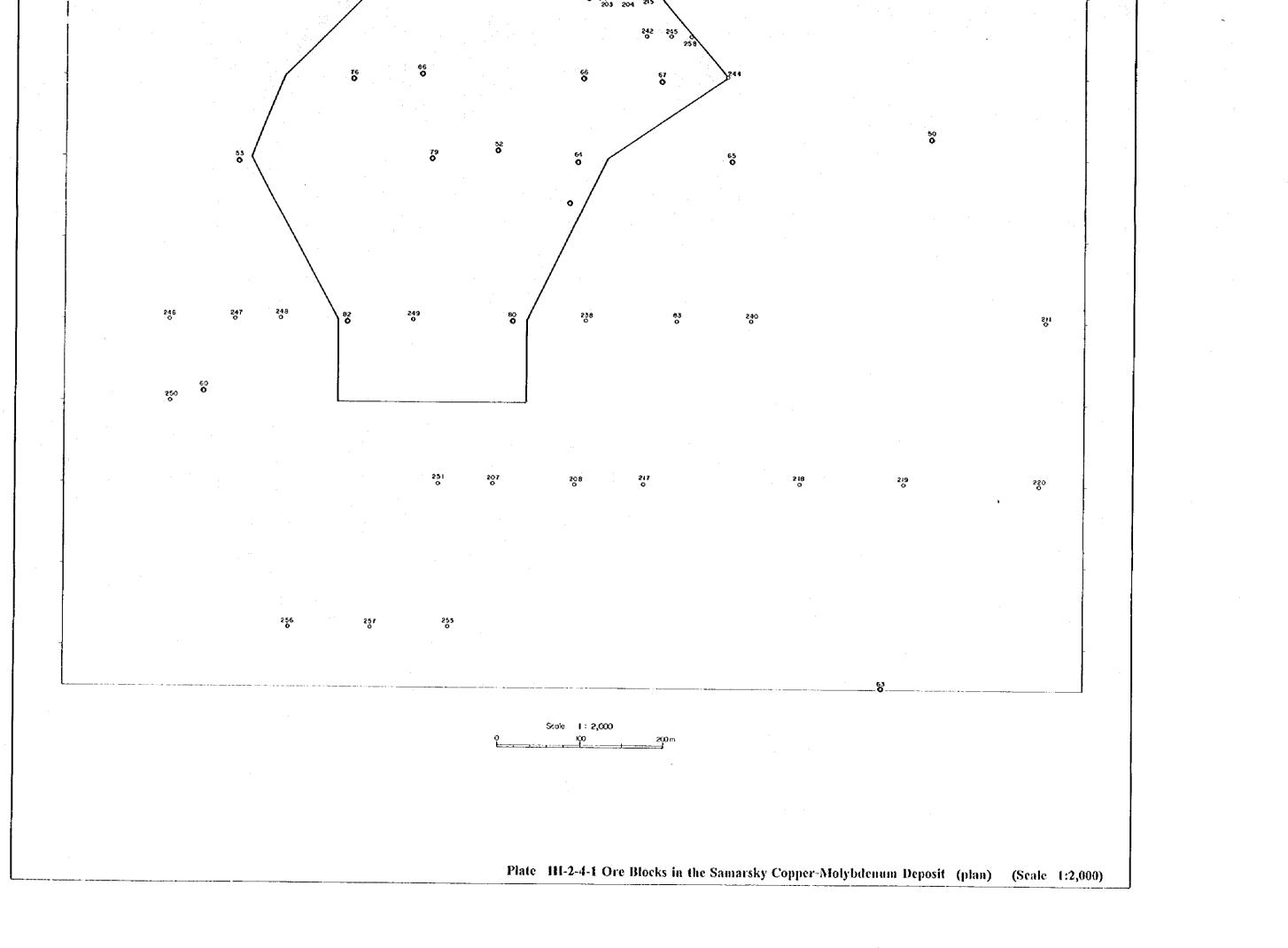
Plate III-2-3-5 Distribution of Geochemical Anomalies in the Samarsky Area (Scale 1:25,000) Originally Prepared by Alexander V. Pokusaev (1955)

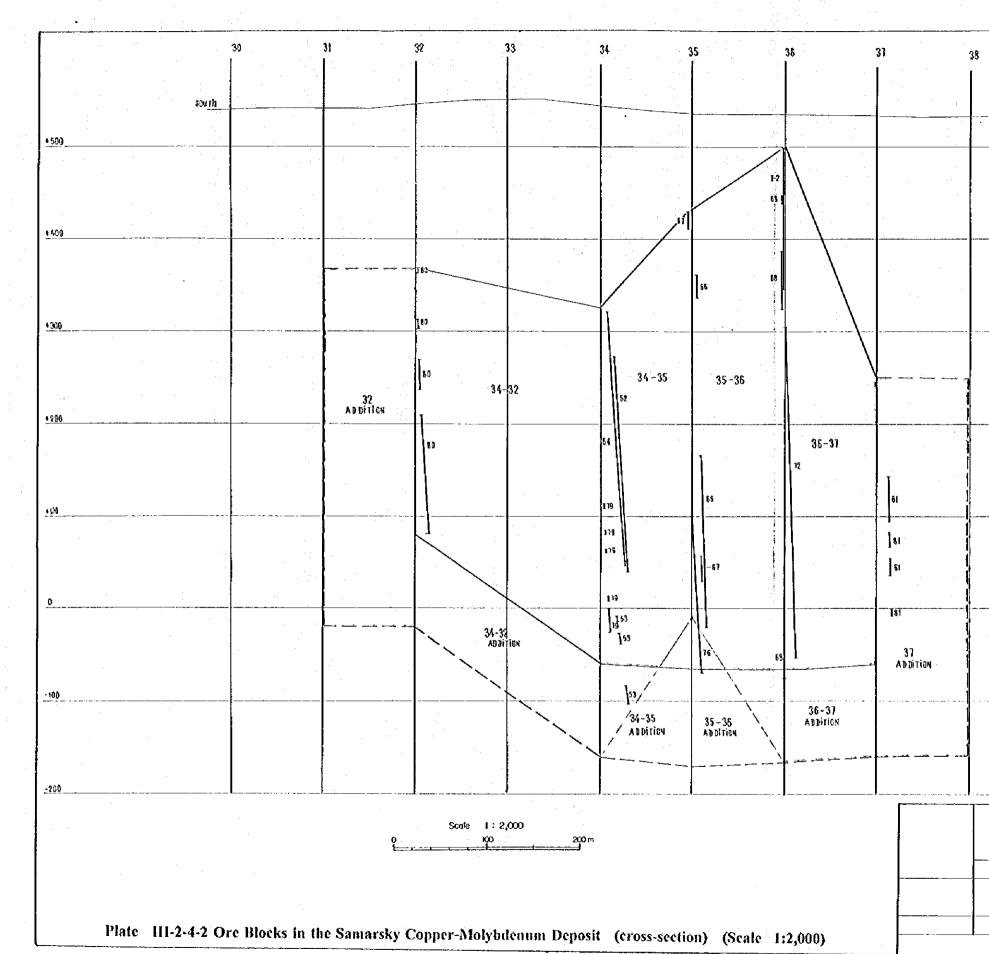




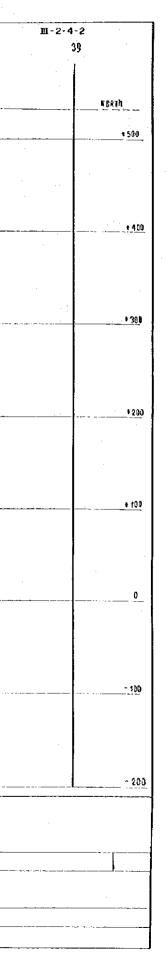


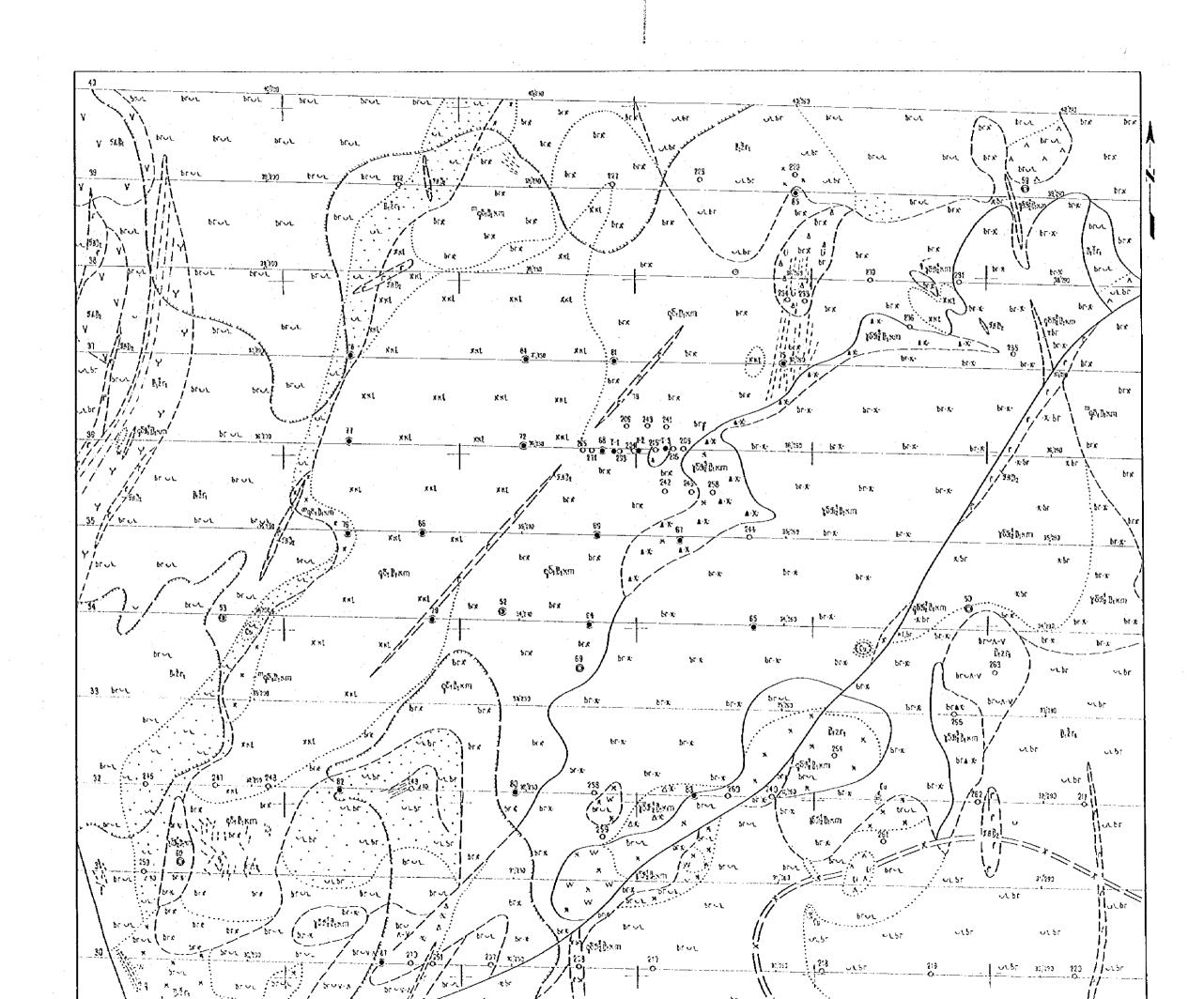


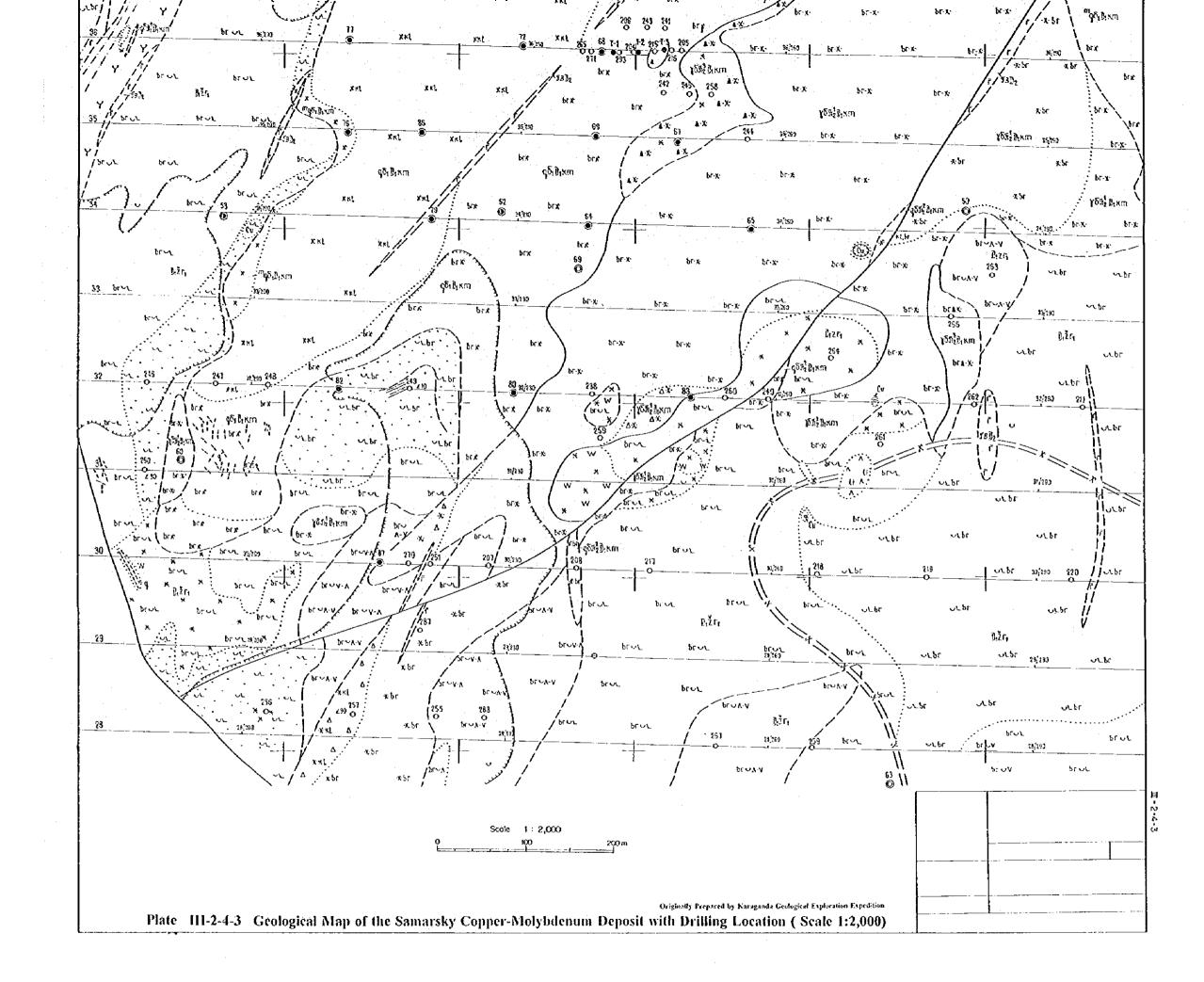


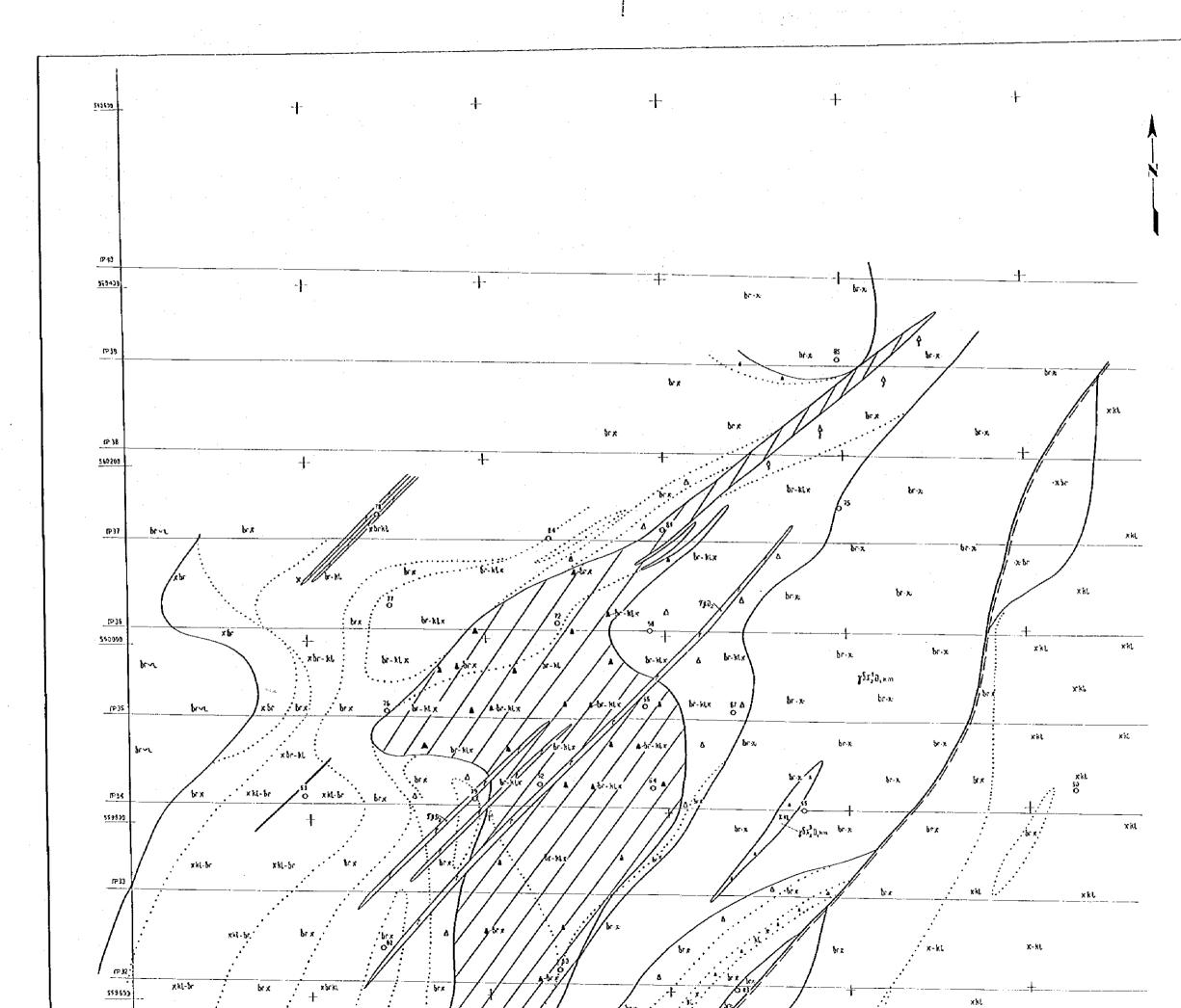


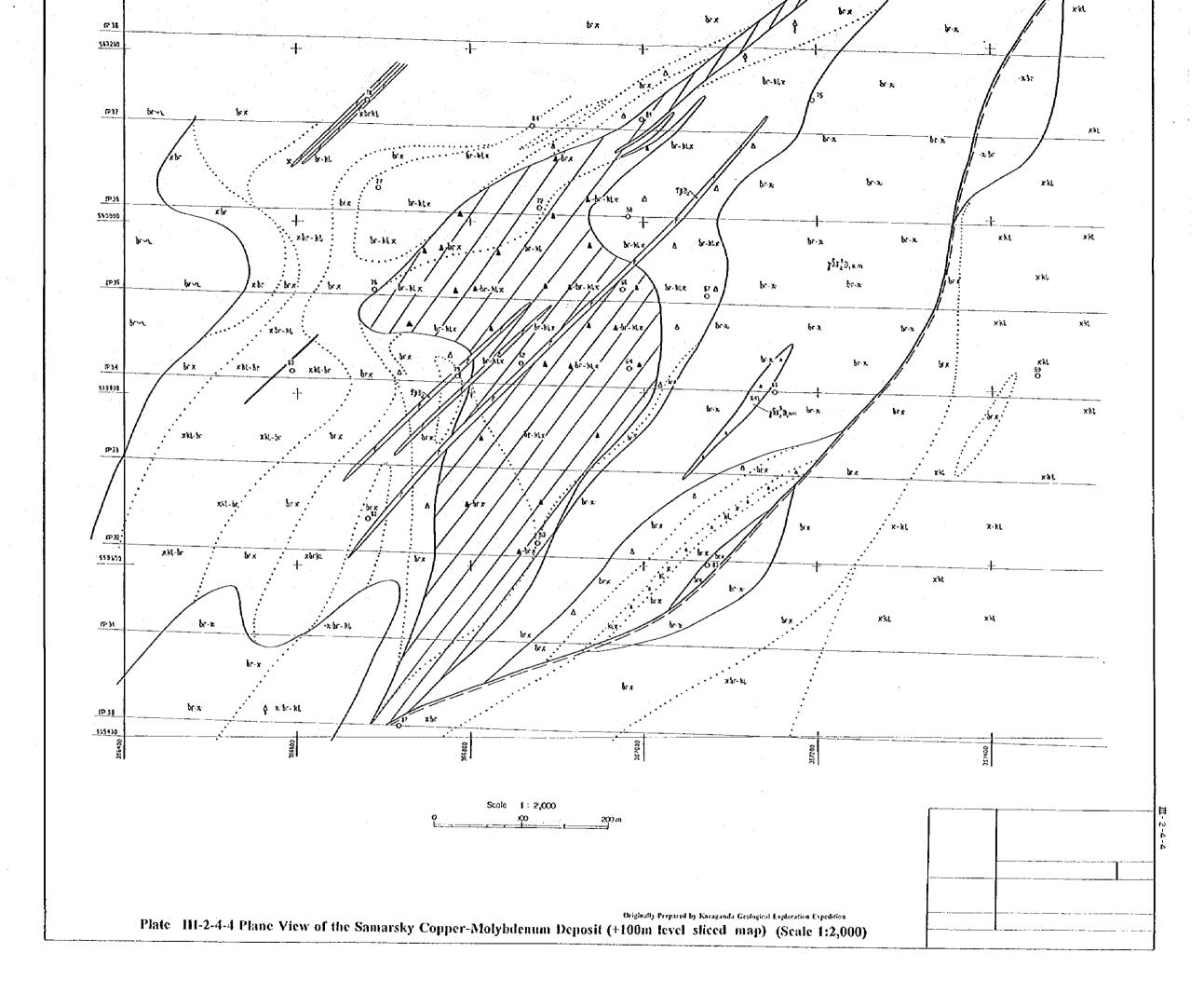
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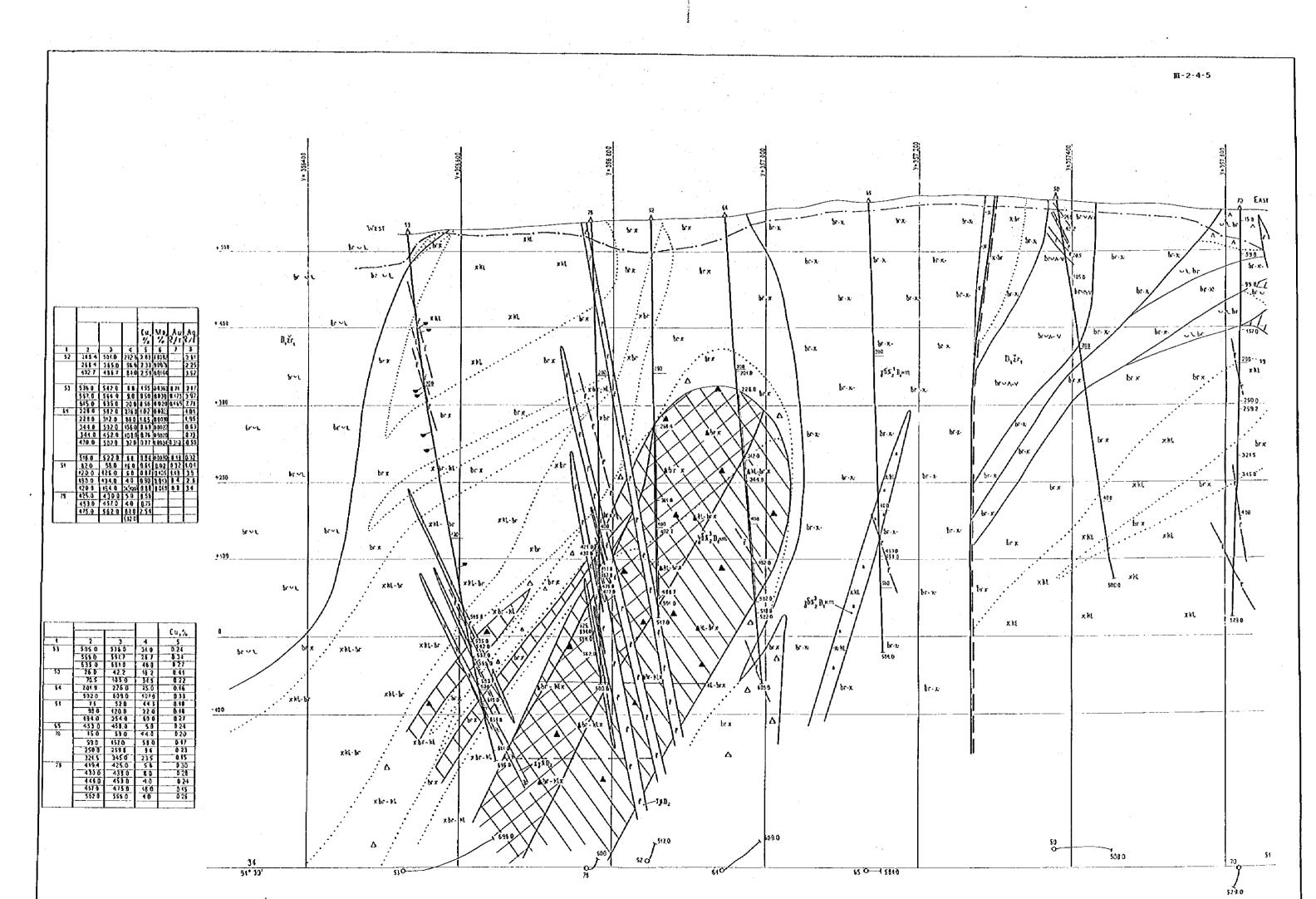


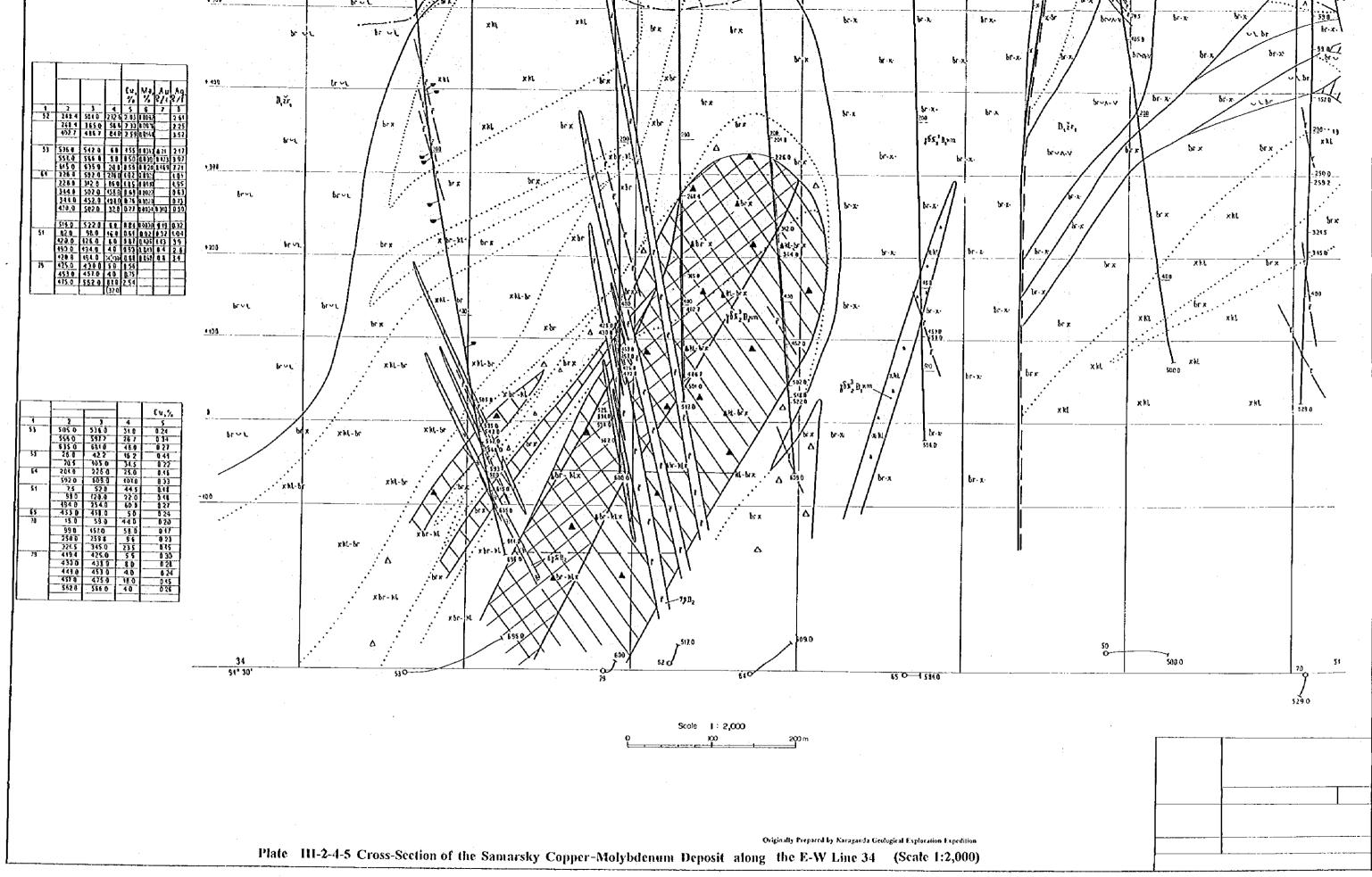




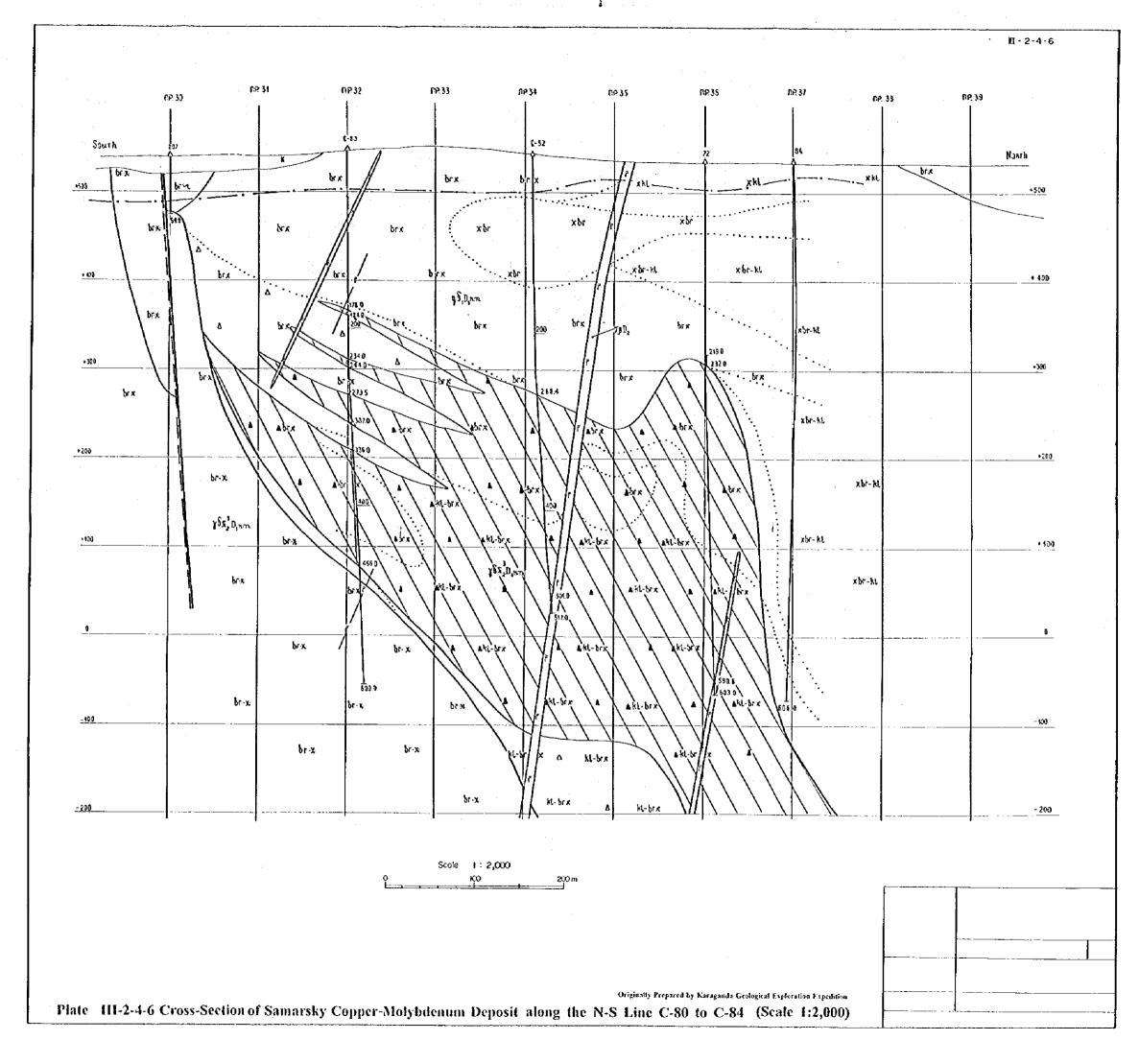




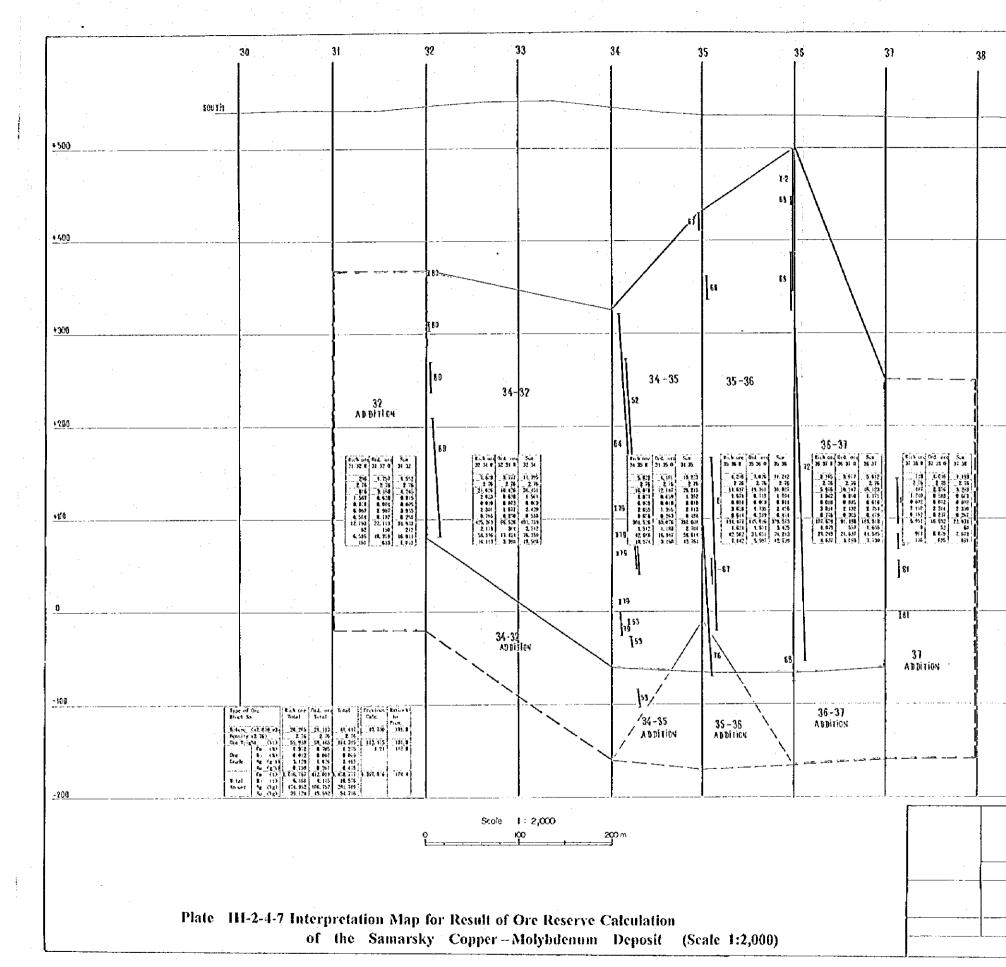




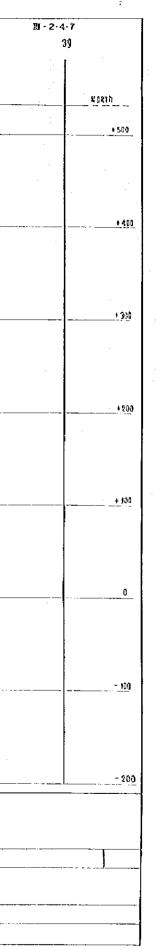
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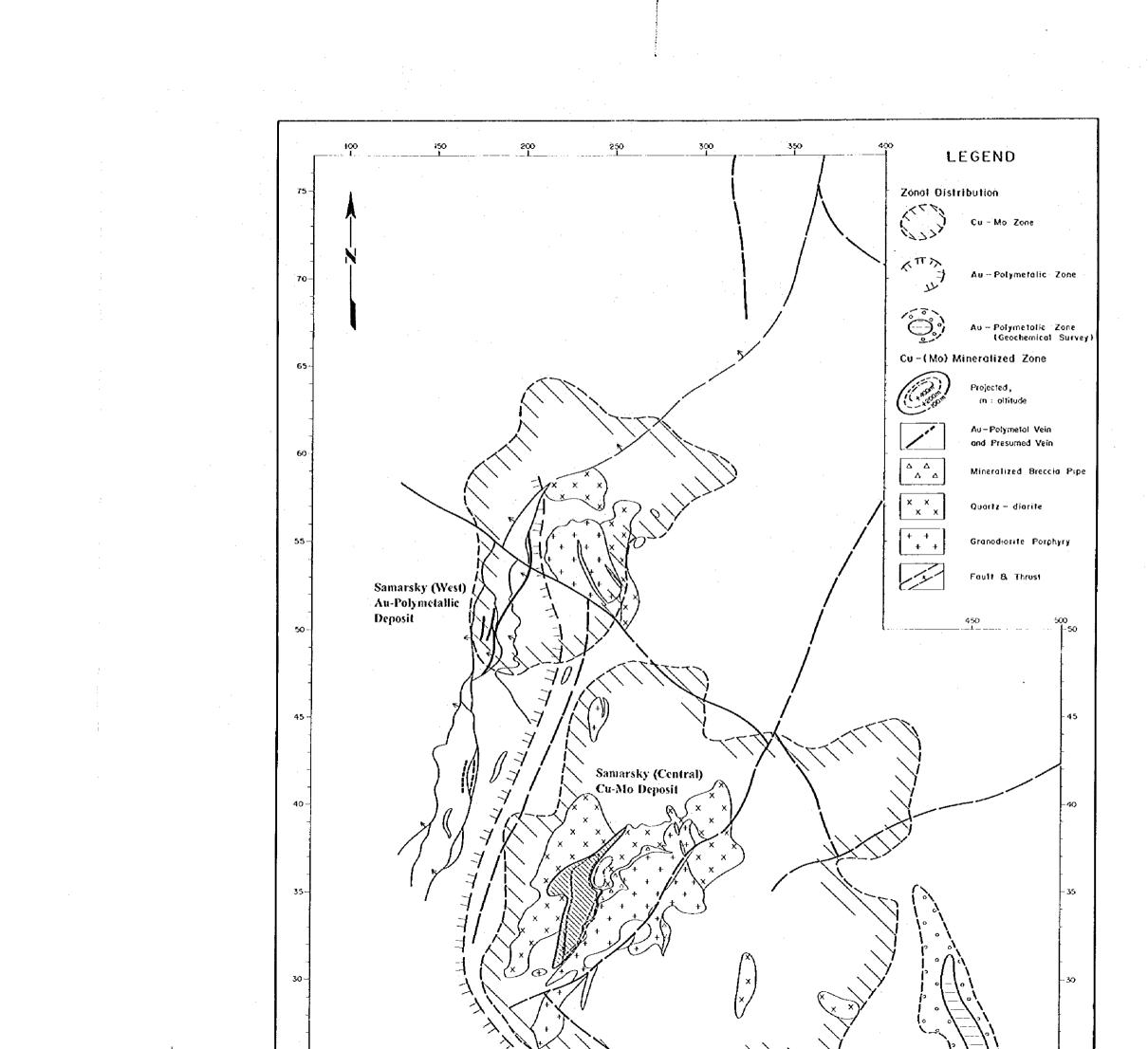


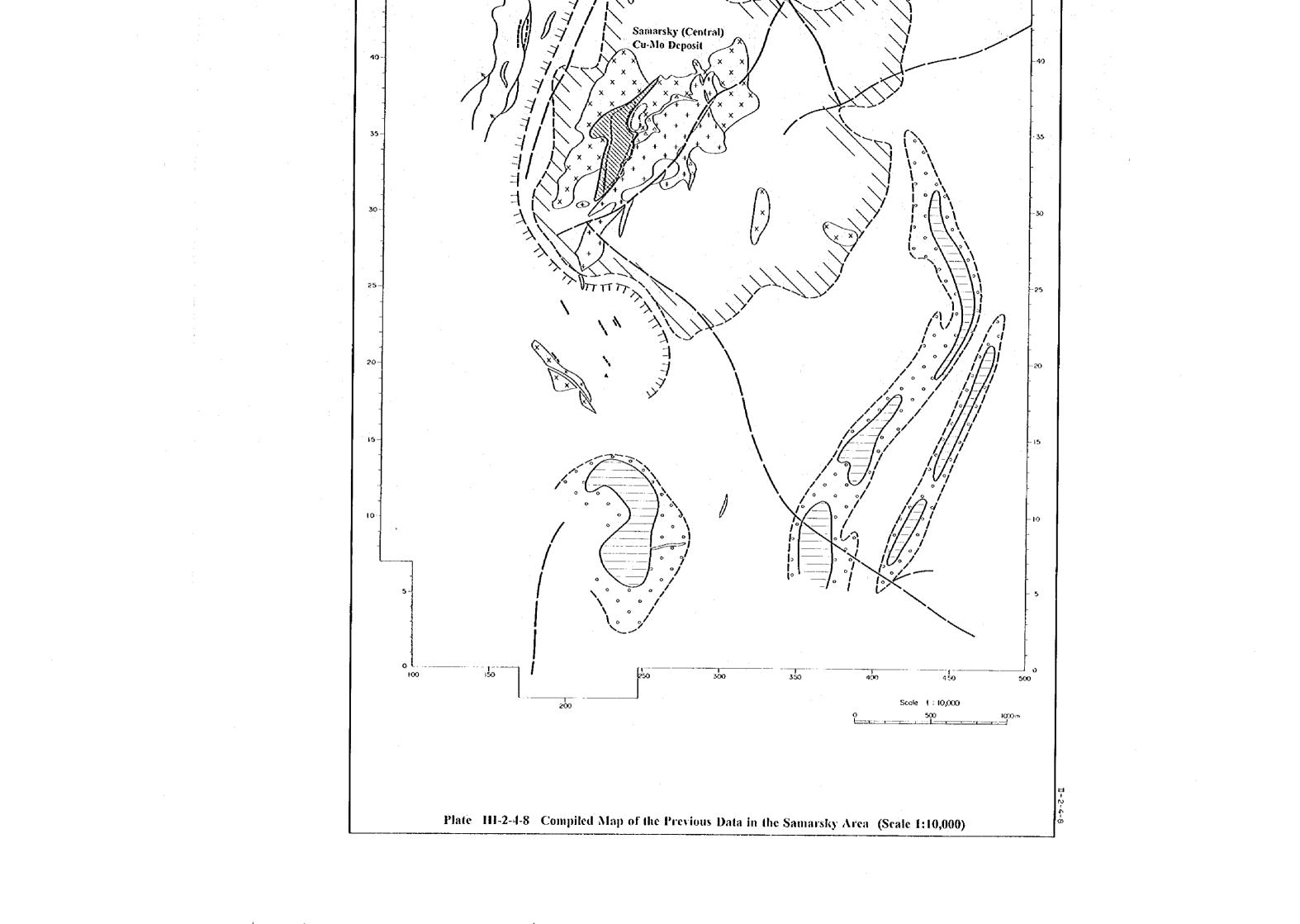
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	ete ete		earmyz j	Manybay complex	0 . x . 6 y
Permian				Minor intrusions and dykes of sub-alkaline gabbro (cu), gabbro-dionite (cu)), dolerite (rp)	
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iterol	Earty		Baleuldin Daisen	Karaganda Funnaiton - Sandstone, aleuroitie, argiilile, coaly aleuroitie Calkrg and argiilite, bads of coal (> 200m)	0 + + <sup>5</sup> K + + K K
			Yajovka	Ct of Astalyanck Formation - Sandstone, aleurofile, coally argilitie, bads of coal (400 - 500m)	
0	2	$\vdash$	îshin Busakov	C1 0X - Akkoda Formation - Aleuroite, anglete, sandstone with interlayers of tuffile (490m) C1 rs - Rusakov Formation - Limy alsuroite, mart, (50 - 100m)	
	_		Kassin	Cirssy     Kassin Formation - Limy alexable, mart, (50 - 100m)     Cirps2     E     mád, simestore     Undwided (ps) - Limy alexable, emplitude, em	3 3
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			Maysler	D <sub>3</sub> s c D <sub>3</sub> rns Meyster Formation - Limestone, filmy sandstone, aleurokte, congloimerate (SO - 200m) D <sub>3</sub> rns	
. •	Late			Orogenic Volcanic - Tectonic Structures Shidertin Depression Devonian Volcanic Bett	22
		Fran	<u> </u>	Sophin Formation - Spé Aled ateurolite, sandstone, gravelite, congiomerate (400-800m)	100
			May	0 <sub>3</sub> 51	
	1	5000 L	Aydadin Tutkilin	Da ka Nonzi Formation - Interfayering of rechocloured, farely grey-coloured, tuffaceous, volcanogenic polymicitic sandstone, gravelite aleuroline, congiomerate, rarely full of andestitic decita (> 1000m)	<u>بيبي</u> فيسمد
1:				. Kokkuduktubin Complex	18 and 10
				rn, David, Fourth Phase - Granile porphyry Middle Devonian (F., D. Ku, Third Phase - Dyse of disorie porphyry (bay), lamprophyry (ra)	Orien
ģ			<u> </u>	Intrustve Ex_D kin ( Thru Frase byte to kome putparty 1 und inter 5 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 60
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ð	2	◄	Ψ	Mikke Dewonian Jin Da Rhysire poophysies	Sampling to
				Formelions Zhelandybulack Formation	O Mapping
			Tekytau	D2 kit     Kuzłożek Formation - Tuft, sandstone aberofite, fimestone, lava and tuff of radistone volcanics rhypodacte composition, interfayers of andesite and andesite tuff (600-700m)     D2 b2     Upper Sub-Formation - Lava and luff of trachyphysite, rhypothe ingruinbride (5300m)       D2 kit     D2 b2     Upper Sub-Formation - Lava and luff of trachyphysite, rhypothe ingruinbride (5300m)       D2 kit     D2 b2	V/0 4 In
-					Geological
				Karamendin Complex [rsjD_sch] Third Phase - DyNa of granite porphyry (rsj), microdionite (hsj), lamprophyry (rsj)	
				Early Devonian Second Phase - Granodicrites (r/s), quartz monzodicrites (quita). Sub Volcanic III and Second Phase - Granodicrites (r/s), quartz monzodicrites (quita).	(16 Dike) Gran
		ន្ល	Kazakh	Sinhadors Single Chart Conte (ch.), Sorie (c	TT + 200
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				$ IxD, \qquad Rhycille porphyry $	Mer
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		- 54	Pribalkhash	D. Ira botron of andesite, standstone, aleurolite, congromerate, botron of andesite, standstone and gravelite (SOO-600m) Middle SUE formation. Nation and gravelite (SOO-600m) Middle SUE formation, unit of induced actes, standstone, develope (standstone approversite full, cardy lave of borrorshiptic Lover Sub-Formation approversite full, cardy lave of borrorshiptic andessite paste, bands of petite luttle, hordy lave of borrorshiptic andessite paste, bands of petite luttle, hordy lave of borrorshiptic borrorshiptic composition, which andeside to borrorshiptic Lover Sub-Formation approversite full, cardy lave of borrorshiptic andessite paste, bands of petite luttle, hordy lave of borrorshiptic	s x s x s x star
-	+	4xst	Bartonary Z dorch	D. 11. Lover sub-formation approversate MF, arealy Lava of porphysica andersitic baselts, bands of petite hulle, horizons of hull of anders-docide(>500m)	
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ဟ	Garly		Donenzhal	Sumysar Formation - Spotled polymicitic and luffaceous sandstone, Syst conglomerate and aleuroitia (1500m)	• -·

## L I-3-3-i N-2-3-i

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giomerate (a), gravalite (b), sandstone (6)

uro-sandstone (a), aleurofite (b), argitita (B), jasper and microquartzite (r), y aleurofite (R), limastone (I) and phthanks (X)

conglomorate (a), full sandstone (a), fulfile (B)

distone, red colourad (a), similar aleuro-sandstone (ö), aleurofite (B)

polie (a), trachyrhyolie (d), rhyodaolla (B), daolla (r), andesile (d), andesile (basali (e), ati (Q), Tuff of : rhyofia (3), daolle (u), andesile (d), andesile (basali (Q), olystolite 5 small boulders of finit and basali among sandstone and conglomerate

volcanic and diatrame formation : rhyolite (a), andesite (b), andesitic baselt (B)

 Image: Cranita (a): granodionita (b): diorite (6): guartz diorite (r), gabbro (s): pyroxanita, dunite serperfinita (a): monzodiorita (V): quartz monzonita (0); quartz monzodiorita (u): granite porphyty (k), quartz diorite-porphyty (k).

Dyke : acidic (a), machum and atkatine (a), sub-atkatine (B), quartz veins (c)

rtact borntel's (a), epidefization (b), pyrilization (B)

horizons of coal (a)

rafigraphic, influsive subdivisions of different age and borders of bodies of position within them: (a) confirmed, (b) probable.

der : facial (a), metasorratic codes (6), general strika of faminated rock mass, emined by aerial photos (B).

in (a), secondary (b), probable (B), determined a combination of methods : survey and gravity survey (r), setsmic survey (s)

ptirust : main (a), secondary (b), and possible (B), dashes indicate direction ing surface; numbers represent the angle of its inclination.

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ions (of the legend only)

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	Sutsiter		Borders of stra different compo
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e e		Orogenic Volcanic - Tectonic Structures Shidertin Depression Devonián Volcanic Beit	Bords delar
L al			1000 million
<u> </u>		Sophin Formation - Speckled allavrofile, sandslana, gravefile, conglomerata (400-800m)	Fault : inali
	Ney	en <mark>Cast</mark> province and the second s	**
	Aydariin Tulkiin	D <sub>2</sub> kn Konyz Formation - Intertayening of rad-octoured, rarety gray culoured, tuffaceous, wokancyanic polymittick standsfore, gravelite atervolite, constonerate, rarety tuff of and solid coloron)	Overap of
		andeshic-daolia (>1000m)	Di disiccati
		Kokhuduktubin Complex	Orientation of plana
		In Dave Found Phase - Granile porphysy	Constantiation protection
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sty	Pribakhash	Di <i>tr</i> <sub>3</sub> Upper Sub Formation : Mit sandstone, aleuroite, congromerate, Voicion of andeside, sandstone and gravelite (SUO-600m) Misule Sub Formation, Mithe of noise and gravelite (SUO-600m) Misule Sub Formation, Mithe of noise and sub and solution with interfayers of congromerate broots, but of andesides deale, sandstone, aleuroite, gravelite, formation algorite and the formation and solution of portprintic andesitic basats, bands of petite tuffite, horizons of tuff of andeside docle(-SOOm)	Members of red (
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	Alpey	S <sub>1</sub> N7 Karaayayt Formation - Grey-green polymickic sandslone, alaurolite, conglomerate, firmy sandstone and aleurolite (> 2000m) S1, 51 rad coloured sandstone, aleurolite and	
	Dution	Other Standard and Standard an	At geological and geop
Late	Chokçar Abek	Ogitin of linestone, sociamentary brecola, aleurofite with olystolite of jasperovit, basalt, Rimastone (>3000m)	о Б В г Рой
	Andraken	Oger	• • • • • • • • • • • • • • • • • • •
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Middle	Anrakhay Kopalin		Proo numeralor - d denersinator -
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	Ungunan	$\varepsilon_{s} O_{z} ck$ settlante, vanadium bearing schist, basall, conglomerates (> 2500m)	
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e late	Alsociation	Astakhov - Sub-alkaline delaminated complex	
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┍────────		Zhellau Formation - Basal with discontinuous bodies of guardate.	
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(a), secondary (a), probable (B), determined a combination of methods : way and gravity survey (1), saistnic survey (3)

nust : main (a), secondary (b), and possible (b), deshes indicate direction | surface; numbers represent the angle of its inclination. ۰.

ear structural elements

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exploration drilling

pping, defineated by geophysical data ov complex and Early Cambrian phonoic

endin (vállkm), Kokkuduktjin (juhDykk), Drugin Complex

ic activity

tary, mostly coarse-clastic rocks

tary, mostly line-clastic rocks

ured sedimentary rocks

ntary and volcanogenic-sedimentary racks with arrise of medium and afkeline composition

ons (of the legend only)

nformable, cross-cutting

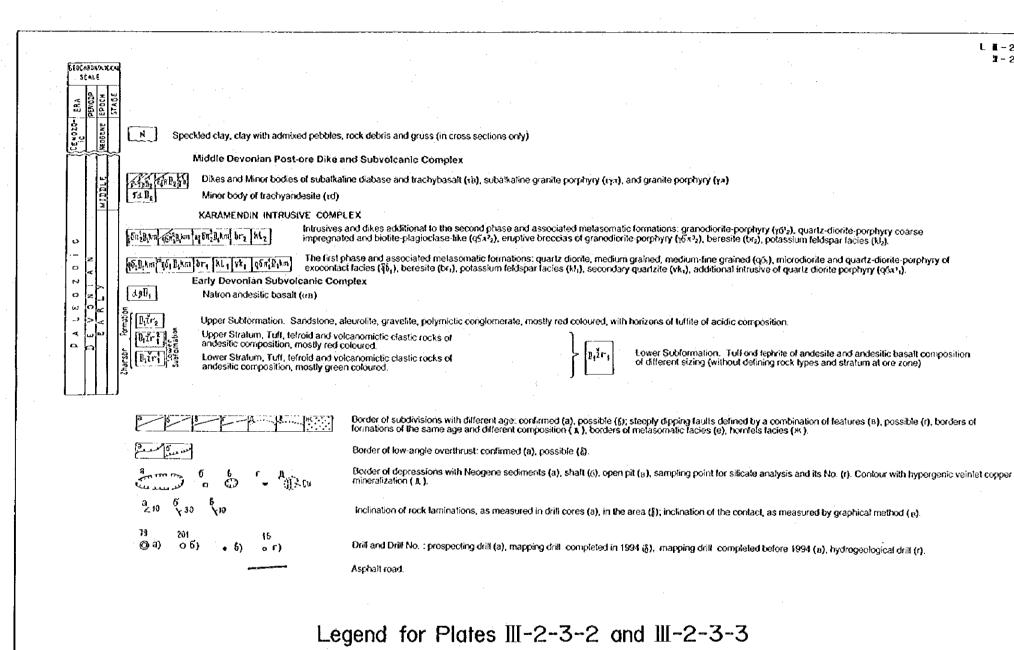
shically unconformable

contacts, impossible to observe)

at cross-sections

geological observation and their number. etrock, 6 9 al eluvial formation ope formations, r-8 at loose formations transported from valions

lesting physical properties: y glcm³ netic susceptibility n x 1.26 x 10<sup>-5</sup> units of St



L 1-2-3-2 1-2-3-3

L 1-2-3-4 E-2-4-3 SPACES (N) GICAL SCAL N Speckled day, day with admixed publies, rock debris and gruss (in cross sections only) Middle Devonian Post-ore Dike and Subvolcanic Complex Dikes and Minor bodies of subalkaline diabase and trachybasalt (1b). Dikes and Minus courses or sources subalkaline granite porphyry(eya) Tall2 Minor body of trachyandesite (rd) KARAMENDIN INTRUSIVE COMPLEX Intrusives and dikes additional to the second phase and associated metasomatic formations: granodiorite-porphyry ( $\gamma 5\pi^{1}_{2}$ ), quartz-diorite-porphyry biolite-plagioclase-like ( $q 5\pi^{2}_{2}$ ), eruptive breccias of granodiorite-porphyry ( $\gamma 5\pi^{2}_{2}$ ), beresite ( $b_{12}$ ), potassium feldspar facies ( $kl_{2}$ ). 35820.00 45820.00 415820.00 br 12 The first phase and associated metasomatic formations: quartz diorite, medium-fine grained (q0,), microdiorite and quartz-diorite-porphyry of exocontact facies (mq0,), beresite (br,), potassium feldspar facies (N1), propylite (P1), secondary quartzite (vk1). S.B.K. P. YKI E Birz Upper Subformation. Sandstone, aleurofite, gravelite, polymictic conglomerate with horizons of tuffite of acidic composition Lower Subformation. Tull and tetroid of andesite and andesitic basalt composition of different sizing. EDř  $4 \rightarrow 5 \sqrt{\sqrt{10}}$  Tuffile of acidic composition aleurolite and aleuropelite-like (a), trachyandesite (5). Tuff of andesitic basalt (a), full of mixed composition with prevailing fragments of dacite and andesite (6), automaginatic breccia of granodiorite-porphyry : tragmant based at thidat composition (b) 32 5 5 A-V 8 4 4 Iragments located at fluidal cement of the same composition (B) Diabase, gabbro-diabase (a), quartz diorite medium-fine grained, including quartz diorite porphyry in ore zone (6), quartz diorite fine grained (5), quartz diorite porphyry (2), granodiorite-porphyry (3), granite porphyry (e), beresite derived from quartz diorite, accompanied by unevenly distributed potassium feldspar (5). BIT T 5x x Bx x T x A x C ++ M x x ++ ++ brxhl Beresite derived from quartz diorite (a) beresite derived from tuff and tetroid of andes basalt (5), beresite (8), (composition of initial rocks is shown by corresponding stripes), beresitized quartz diorite (a), quartz diorite with potassium feldspar (A), secondary quartzite (e), hematilization (r). Brx Born & br Tx br Axkl W WAA Eruptive (intrusion) breccia-breccia with different composition of fragments or with different composition of fragments and cementing rocks (a), tectonic pre-ore breccia: fragments of one type are cemented by powdered material of the same composition (5), tourmatinization (6), veinite silicification, possible orientation of veinitets (z), quartz veins (A), firminotization (e), local silicification (x). Border of subdivisions with different age: confirmed (a), possible (6); faults defined by a combination of features (b), possible (z), borders of formations of the same age and different composition (A), borders of metasomatic facies (e), hornfets facies (w). \* r 4 4 4 4 Contour of hypergenic veinlet copper mineralization (a), impregnation and veinlets of minerals: pyrite (5), galena ( 5), sphalerile (2), chalcopyrite (.4), bornite (e), carbonate (3), (5- on geological columns only). B GA GAL Acha B bo Kcc Border of depressions with Neogene sediments (a), shaft (b), open pit (b). 6 \(1) б х 30 Inclination of rock faminations, as measured in drill cores (a), in the area (b); inclination of the contact, as measured by graphical method (b). a ∠ 10 Drill and Drill No. : prospecting drill (a), mapping drill (b), hydrogeological drill (b), CPSE (previous expedition) prospecting drill (z), technological drill (ii), CPSE drill completed by Karaganda expedition in 1993 (e). 79 201 15 ر@ ا 🖲 a i ര് ο 8  $\hat{C}_2$  category reserves contour (a) outlined by prospecting dritting, (6) addition (on cross sections) **()** e ●Д Pt resources contour (on geological map). Oxidation zone border (on the cross sections) Contour of magnetic dome of quartz diorite at the depth of approx. 300 m as per drilling and prospecting data (a). Contour of copper ore, suitable for operations (cut-off 0.5% Cu) (6). Contour of rich copper ore. Legend for Plates 111-2-3-4, 111-2-4-3, 111-2-4-4, 111-2-4-5 and 111-2-4-6

