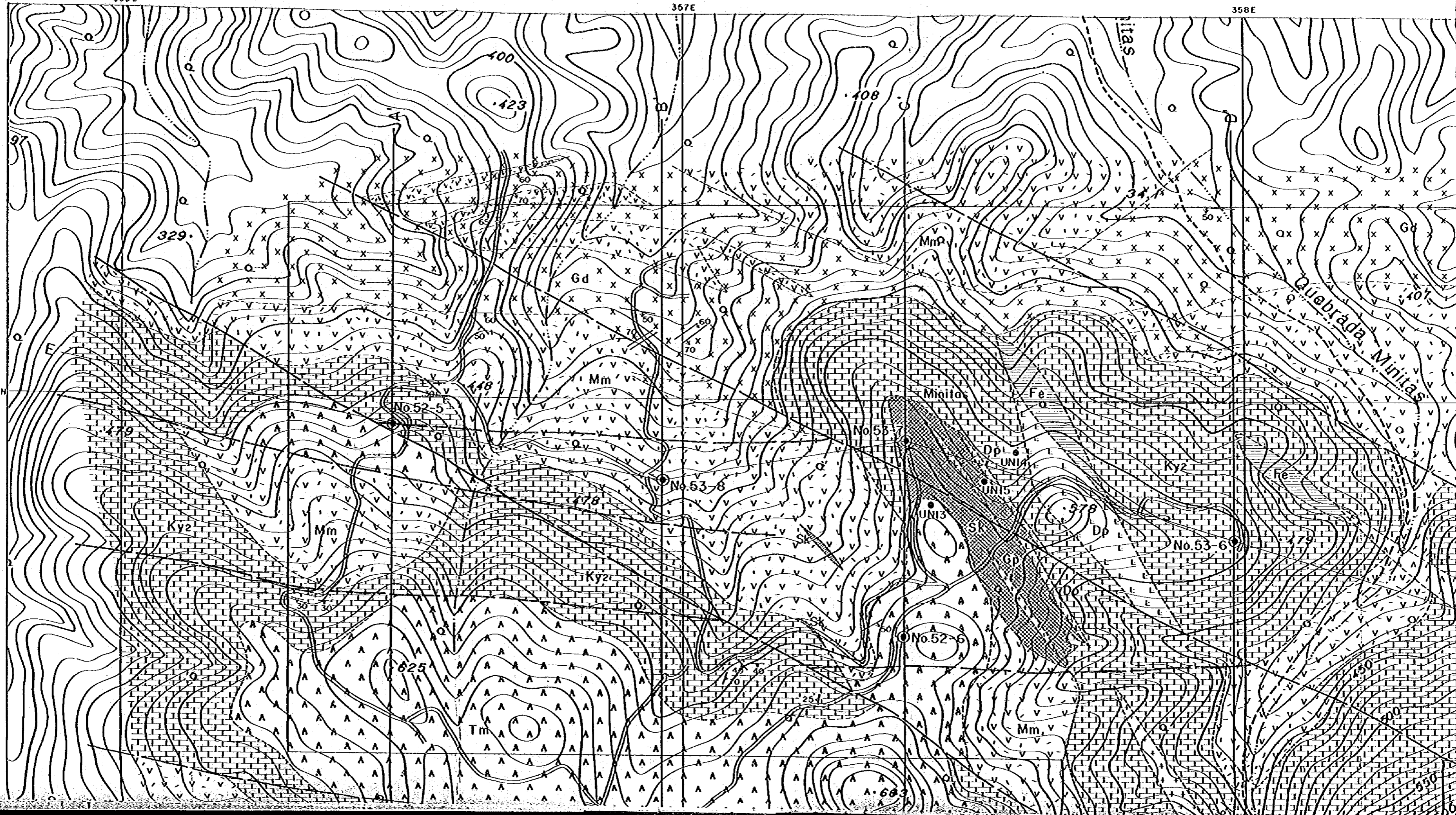


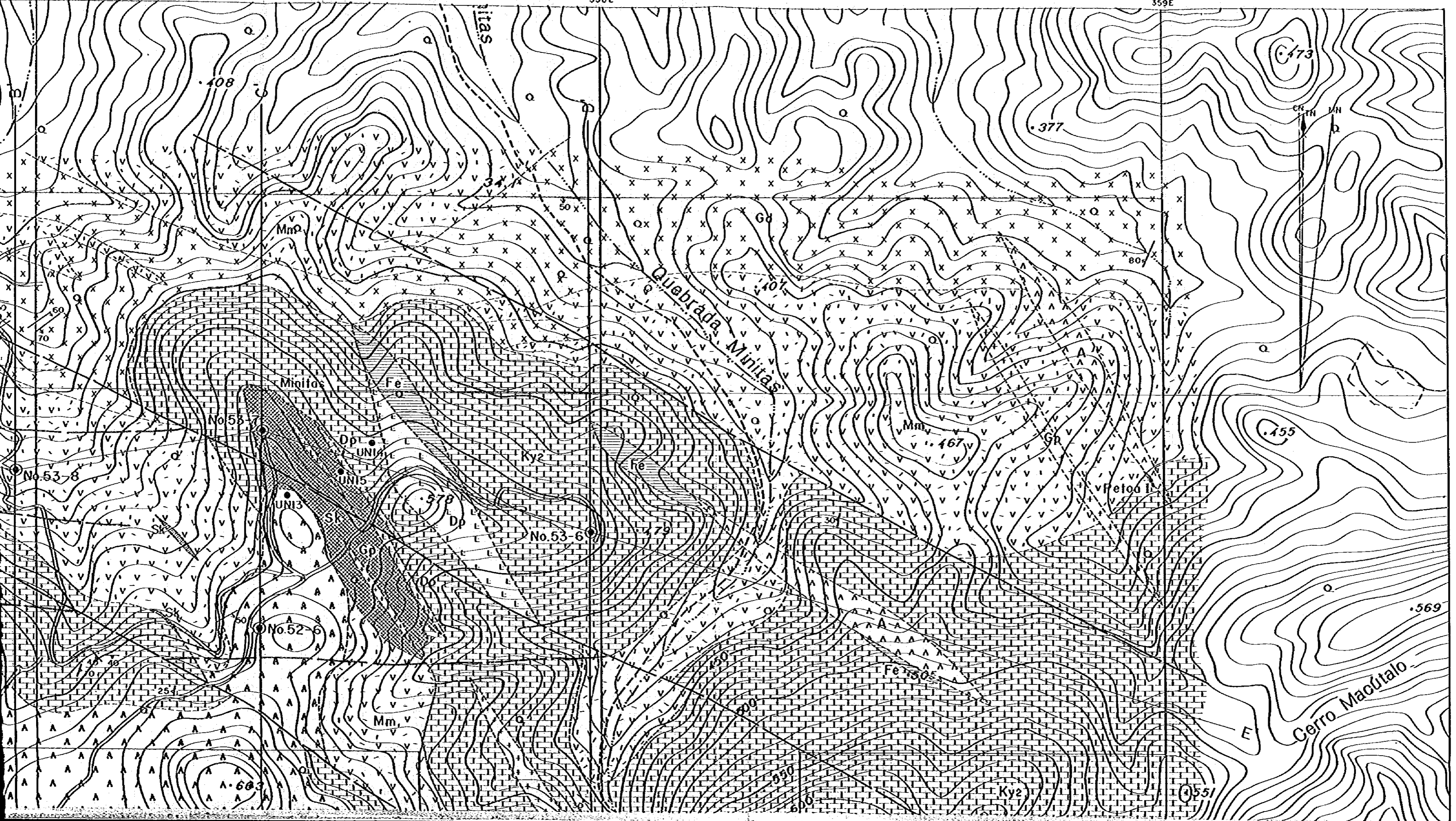
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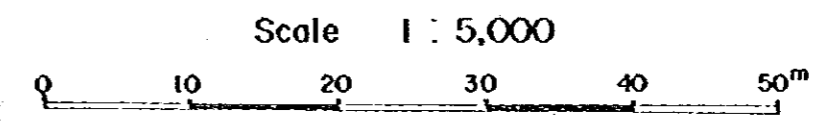
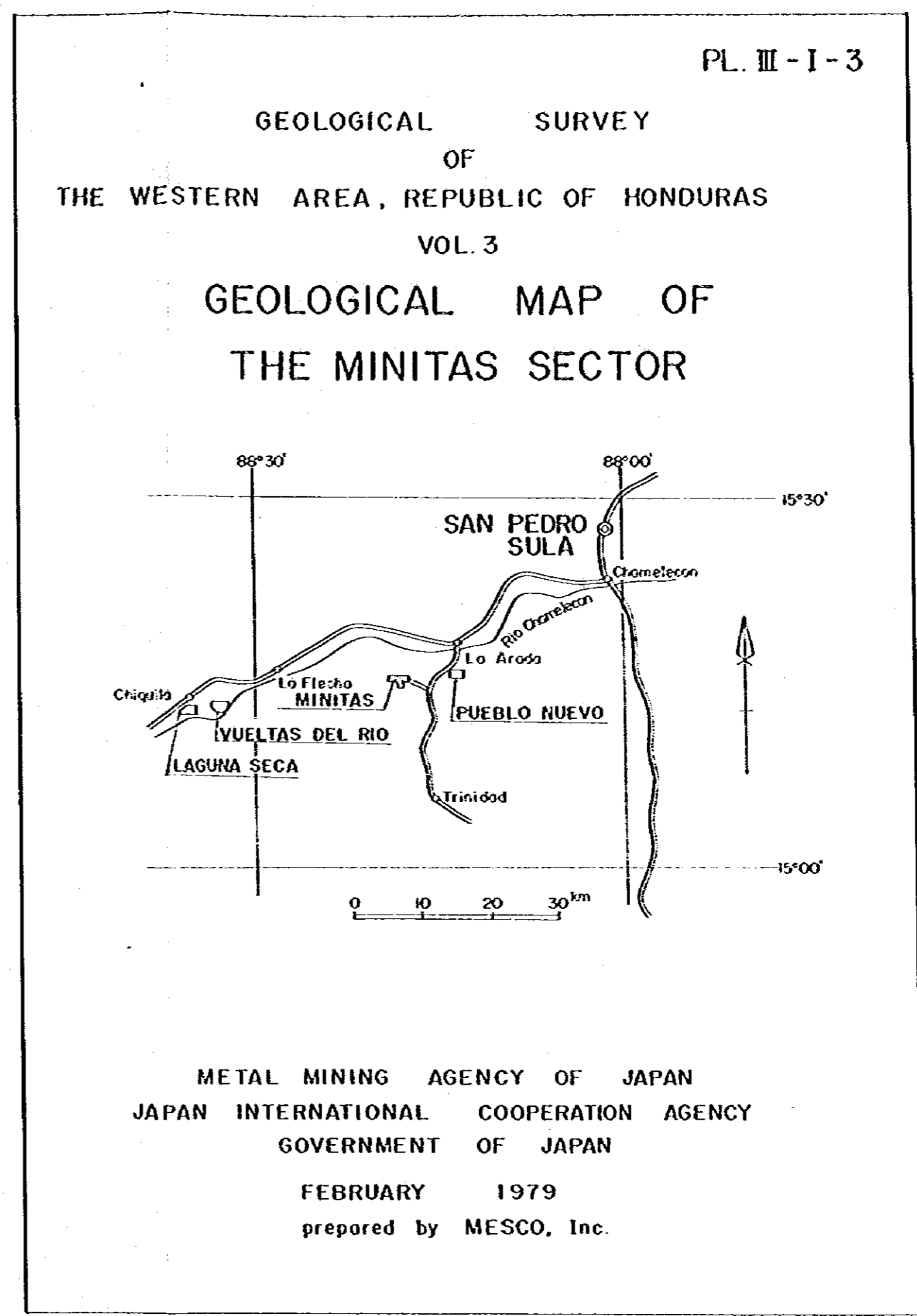
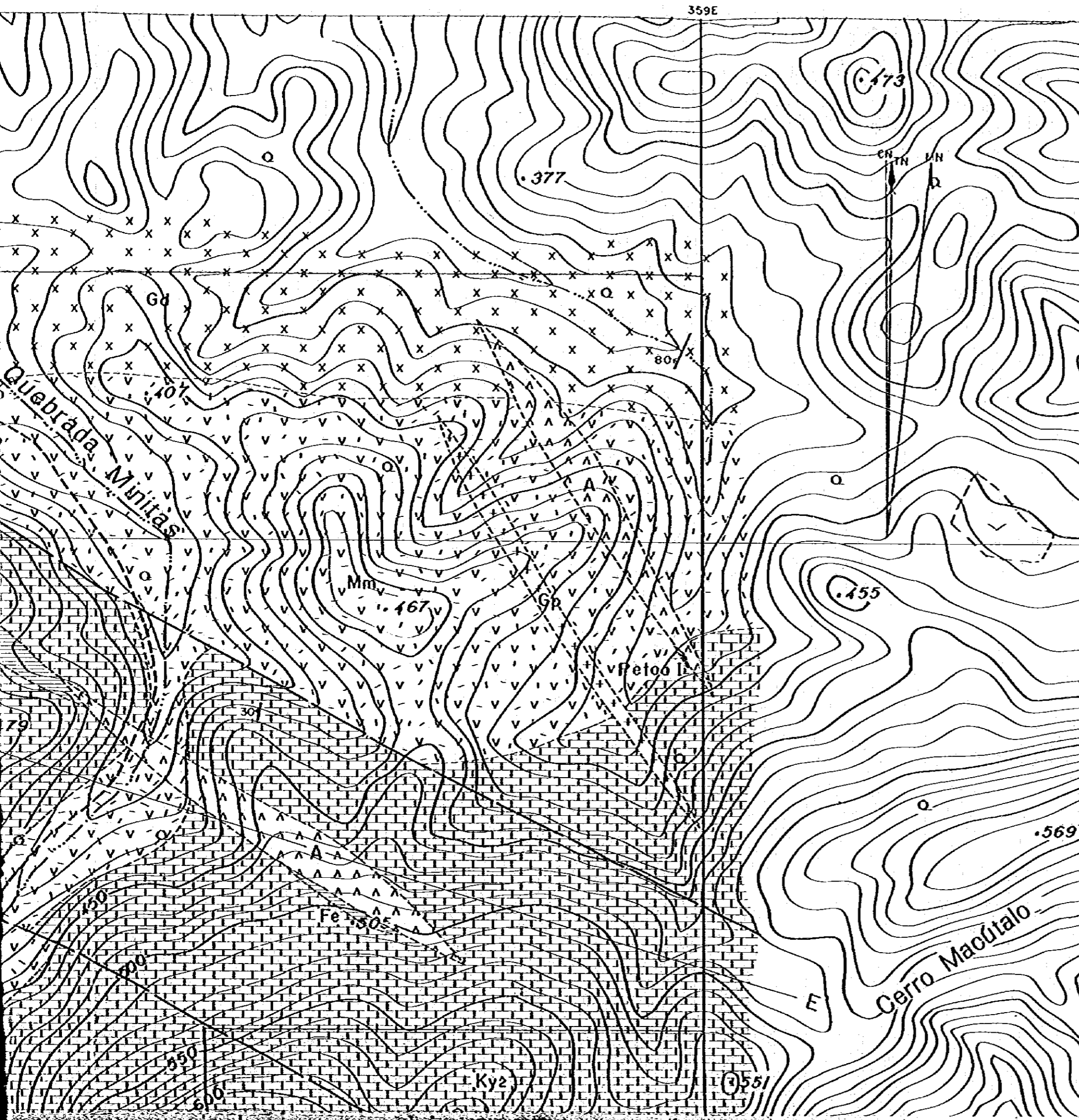
357 E

358 E

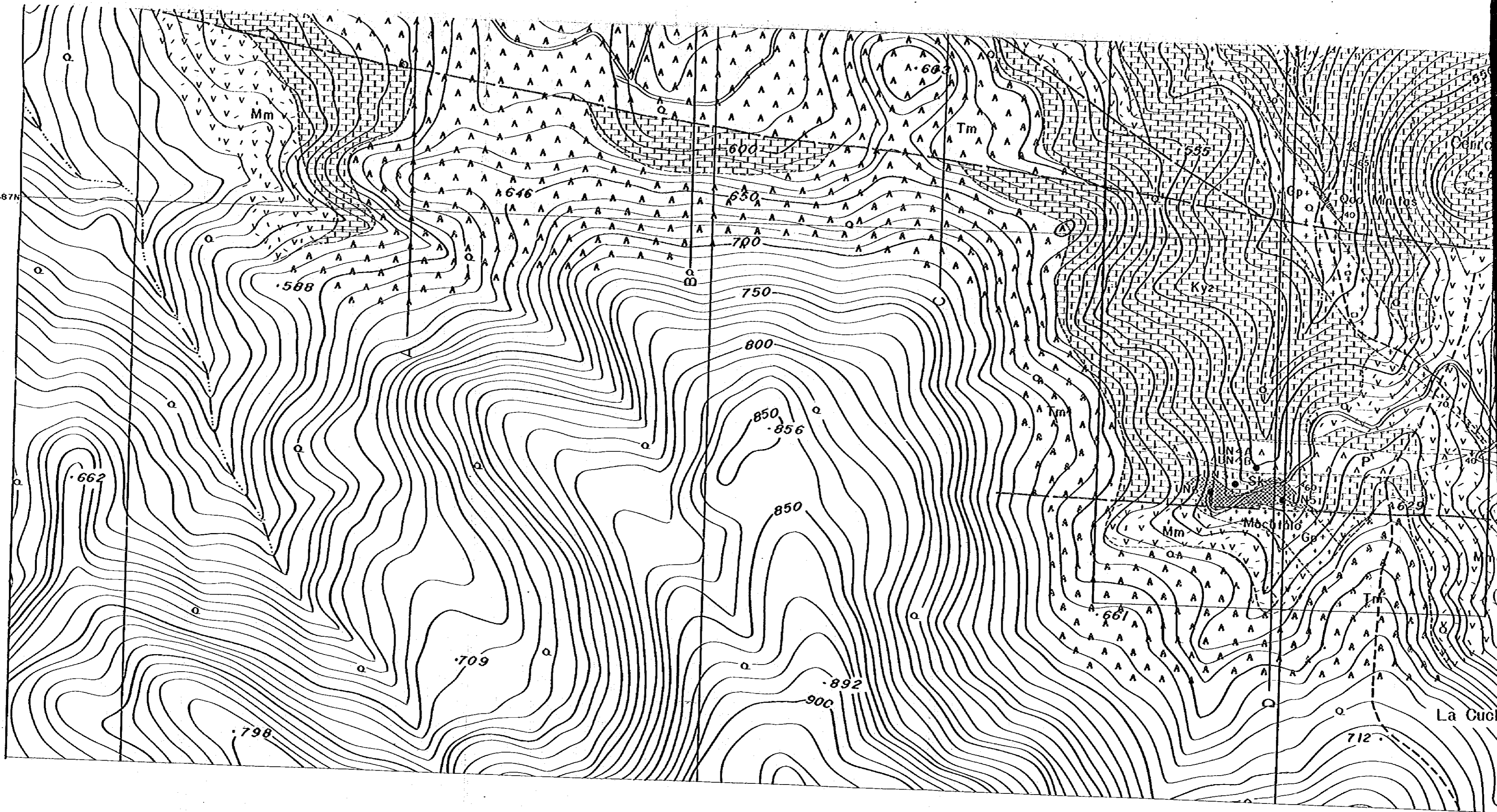
1688 N

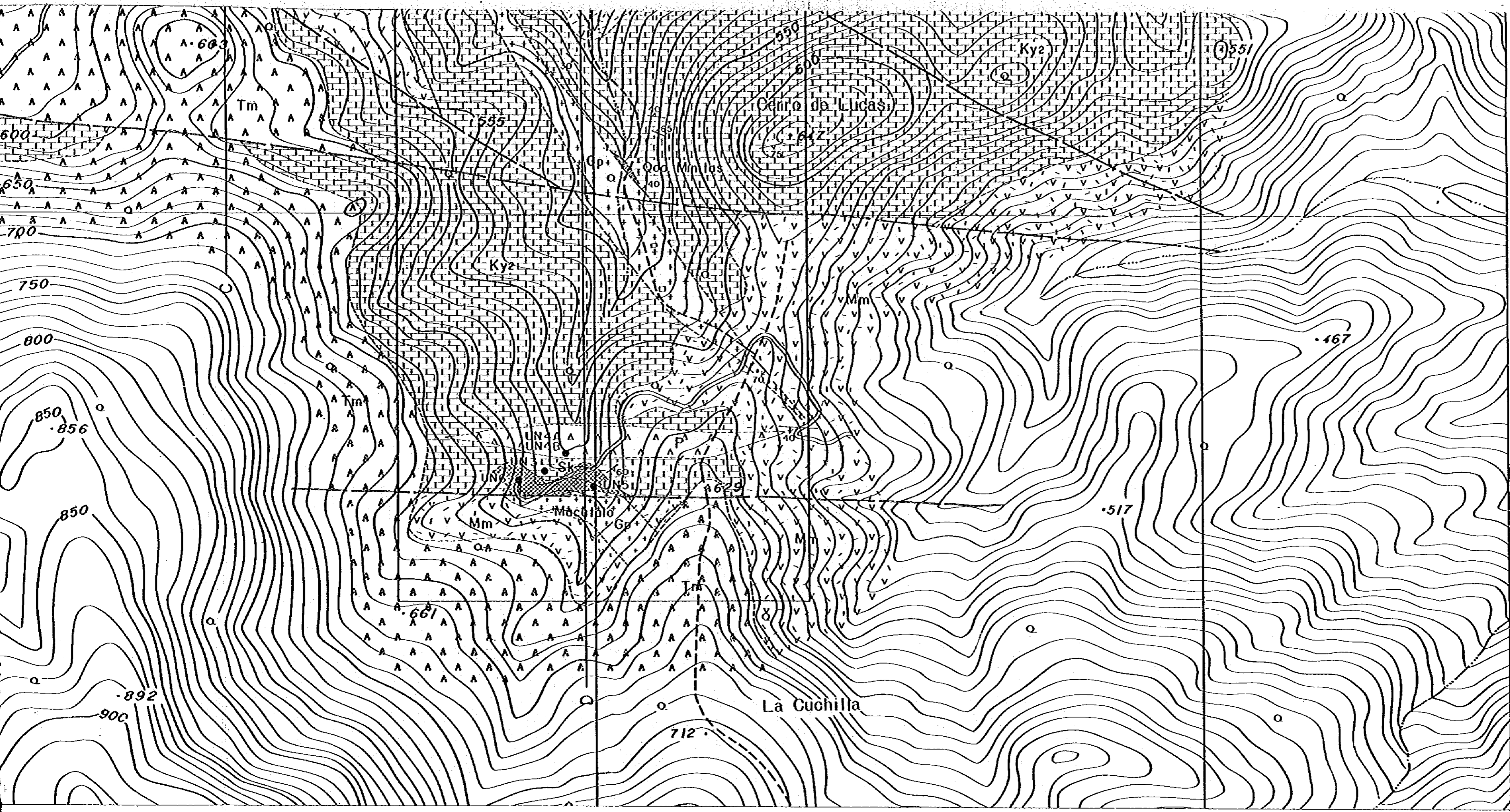




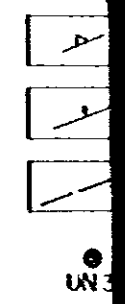


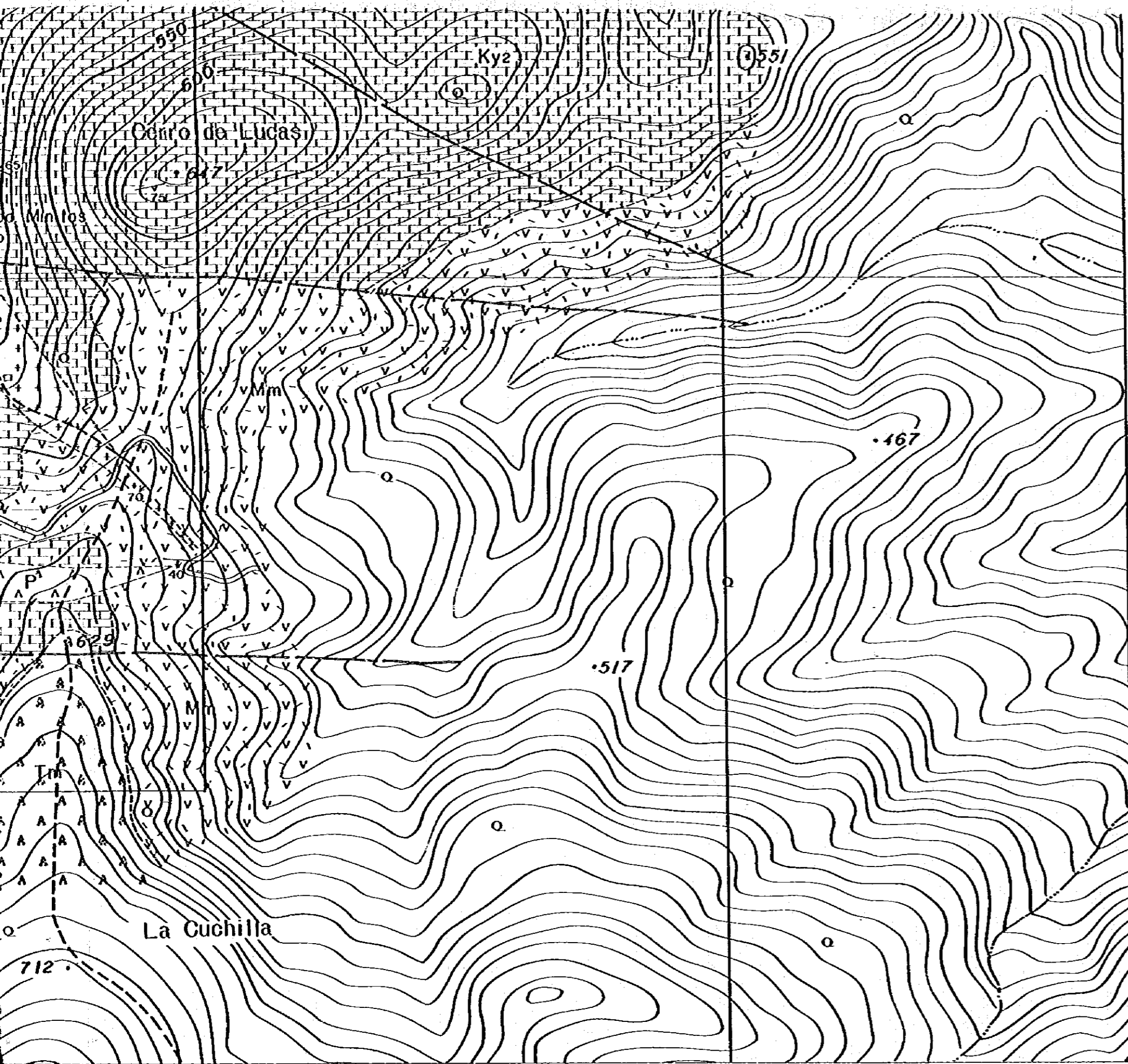
1687N





Forma
Alluvio
Matagal
Atimo P
Minitos
Intrusive

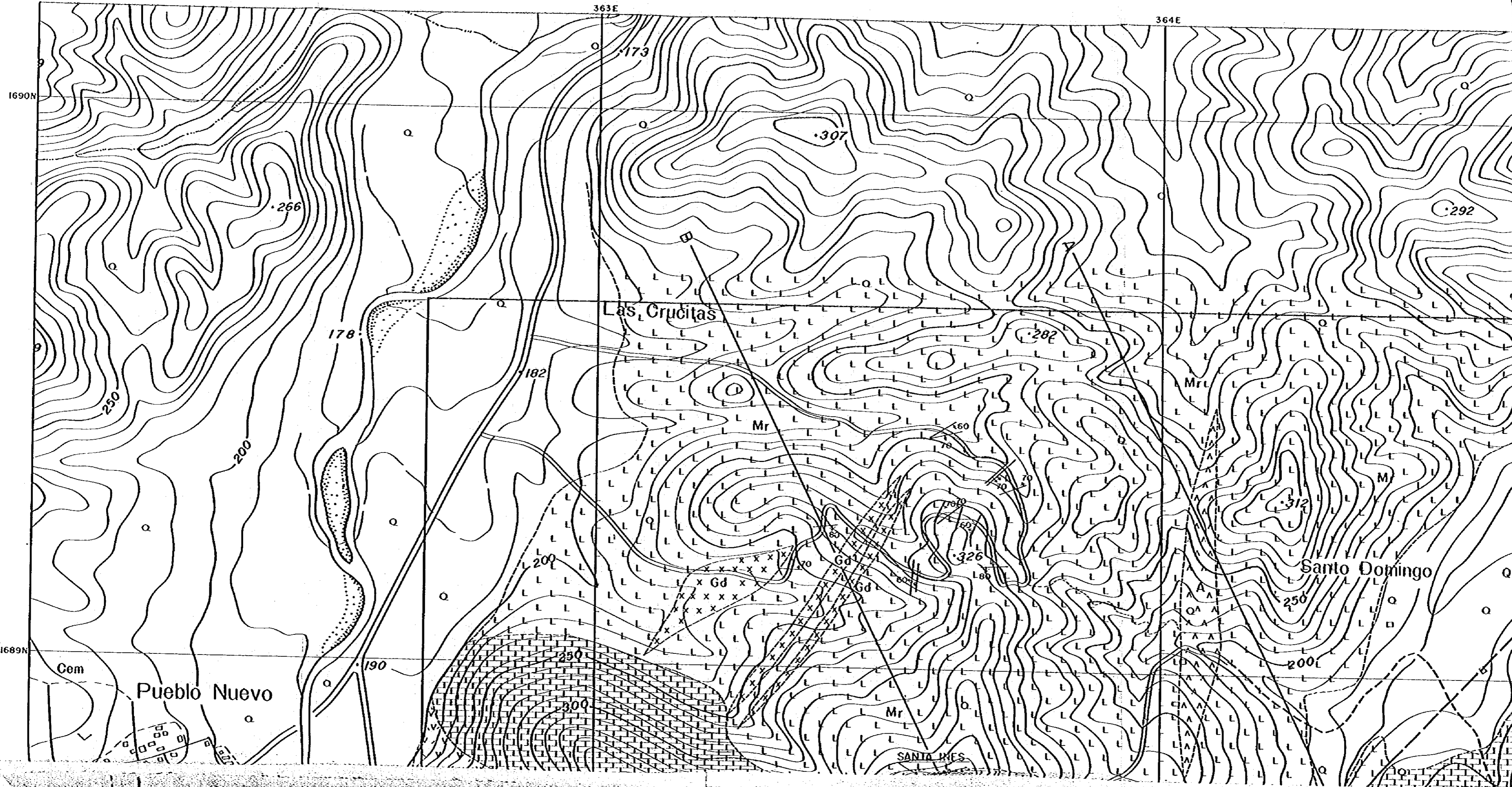


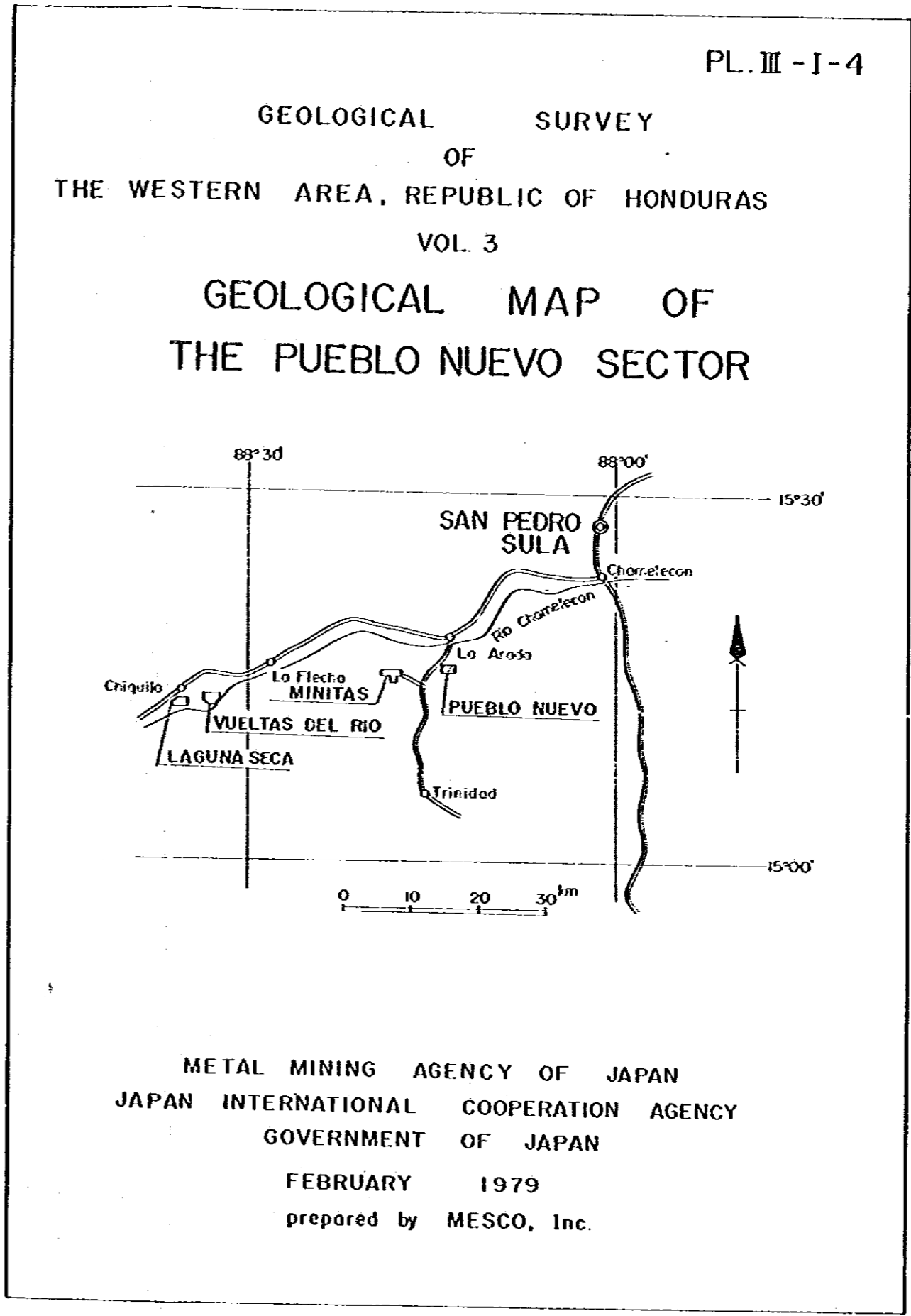
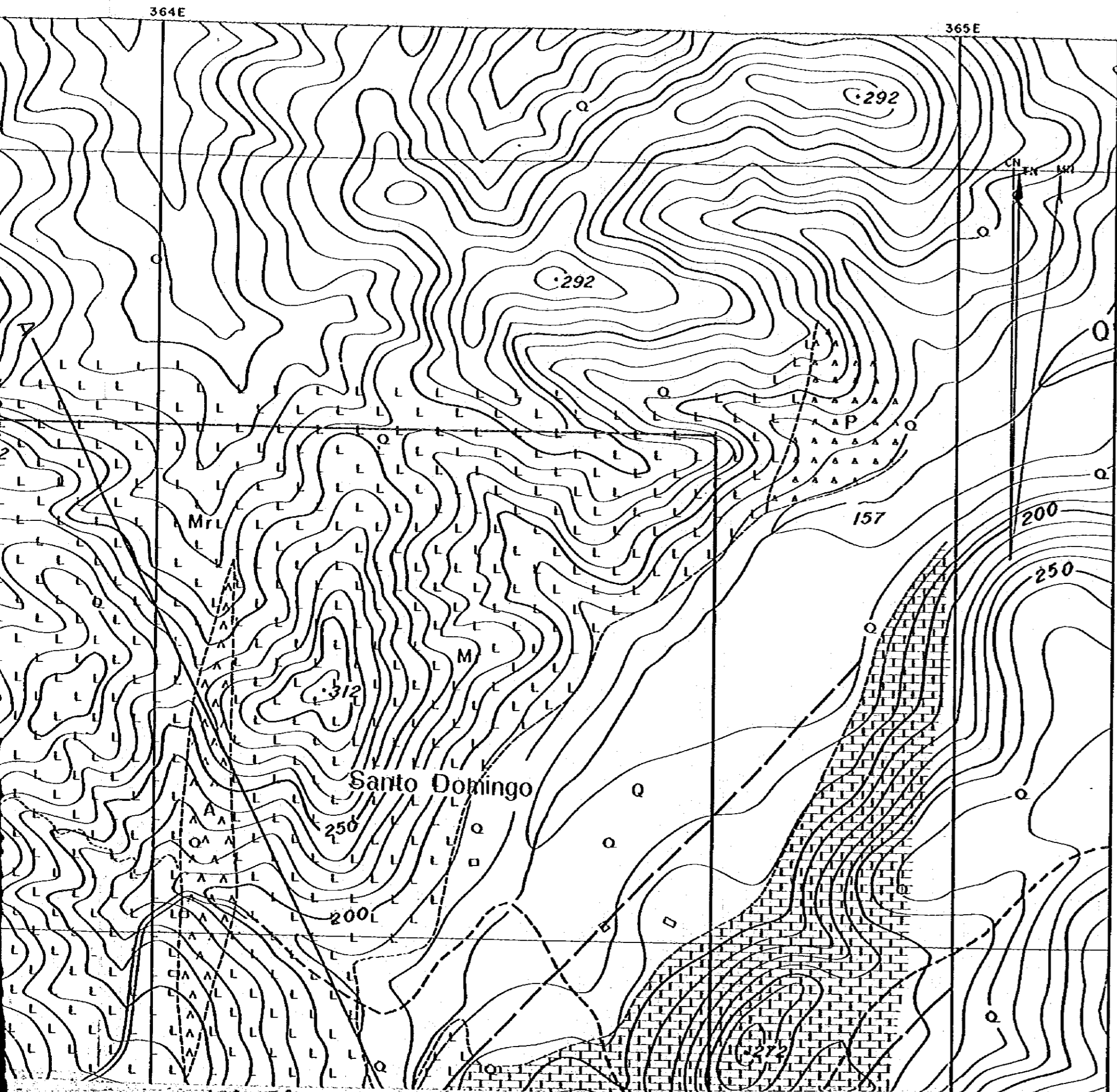


LEGEND

Formation	Stratigraphical Mark	Symbol	Lithology
Alluvium		Q	gravel, sand & mud
Matagalpa F.		Tm	basalt, andesite & pyroclastics
Atimo F.		Ky2	massive limestone
Minitos F.		Mm	metaandesite, metaporphyrite & pyroclastics
		Gd	granodiorite
		Mr	liporite
Intrusive rock		A	andesite dyke
		P	porphyrite dyke
		Dp	diorite porphyry
		Gp	granite porphyry & granodiorite porphyry

- | | | | |
|--|-------------------------|--|------------------------------|
| | bedding plane | | adit |
| | fissure | | mineralized zone (skarn) |
| | fault | | mineralized zone (Fe gossan) |
| | DDH by UNDP (1969~1972) | | surveyed area |





1689N

Cem

Pueblo Nuevo

190

280

300

200

Mr

SANTA INES

SANTO DOMINGO CH

332

350

Ky2

303

Cu

Mm

Ky2

288

216

CARRERA DE SANTA BARBARA

Mm

RIO Chiquila

C

ESPERANZA

20

210

210

Cerro Guano

Mm

313

Ky2

Cu

Aguas Calientes

Quebrada de Tascalapa

208

308

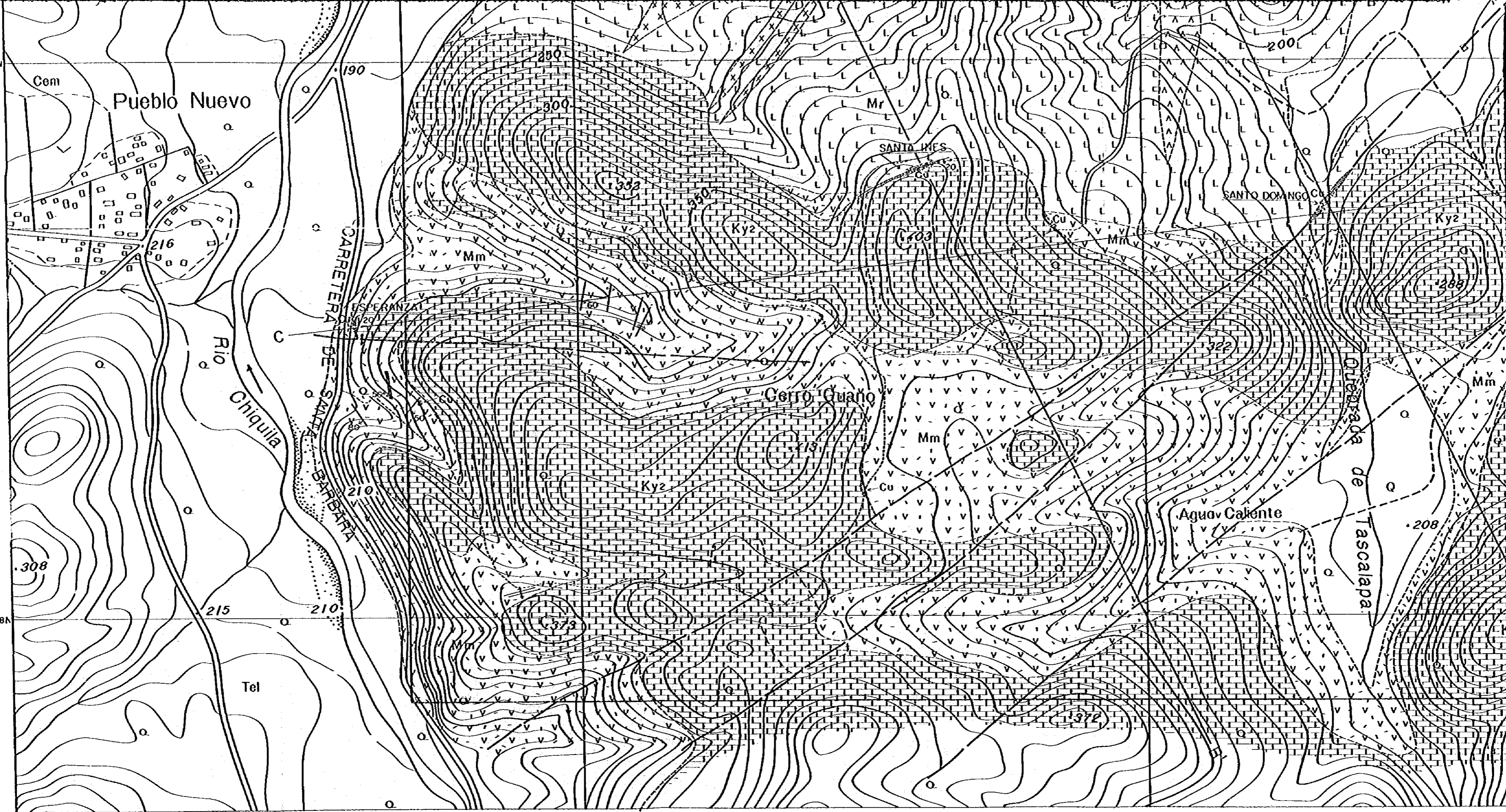
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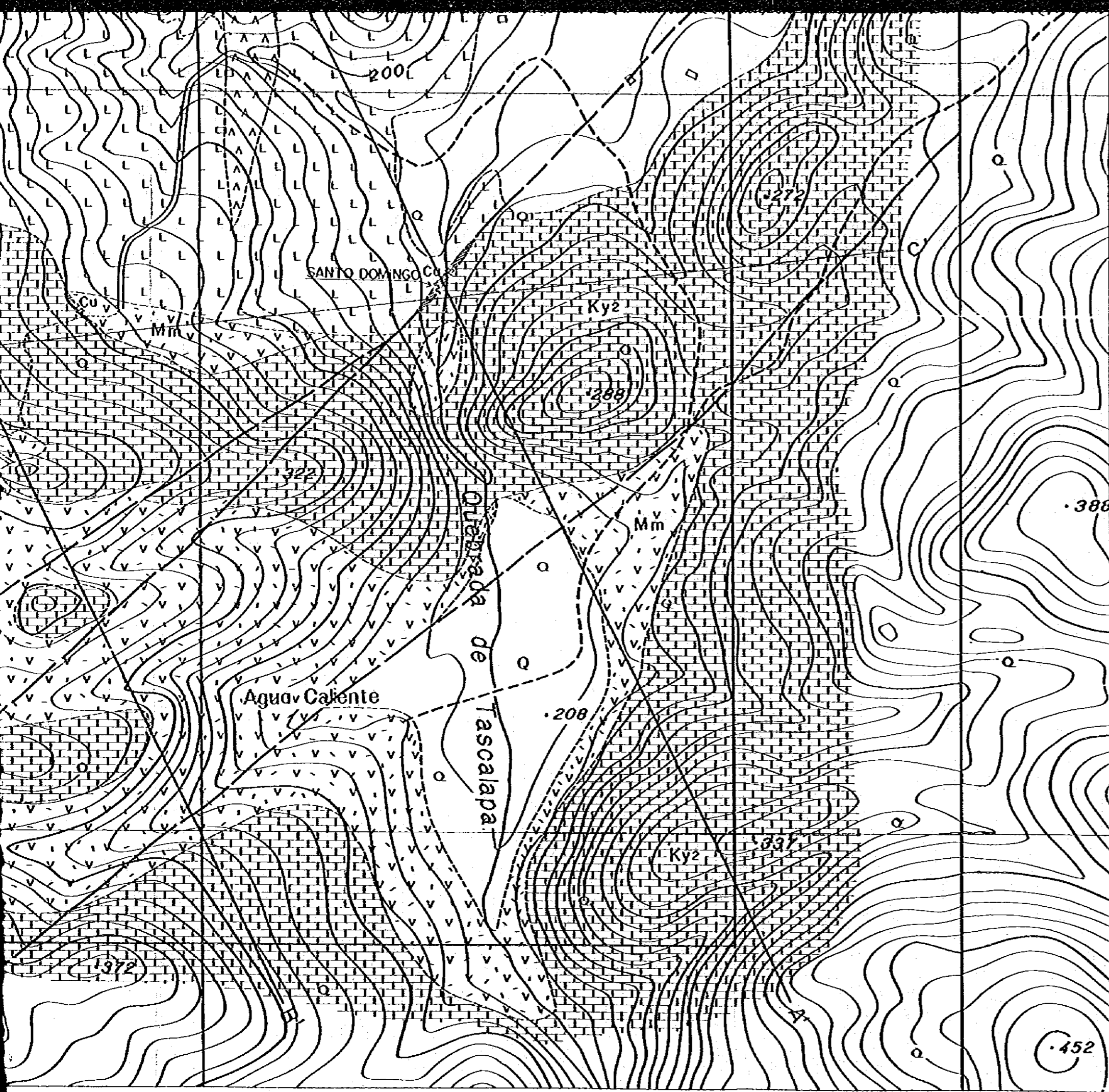
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Tel

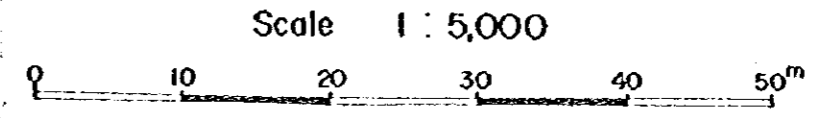
372

1698N





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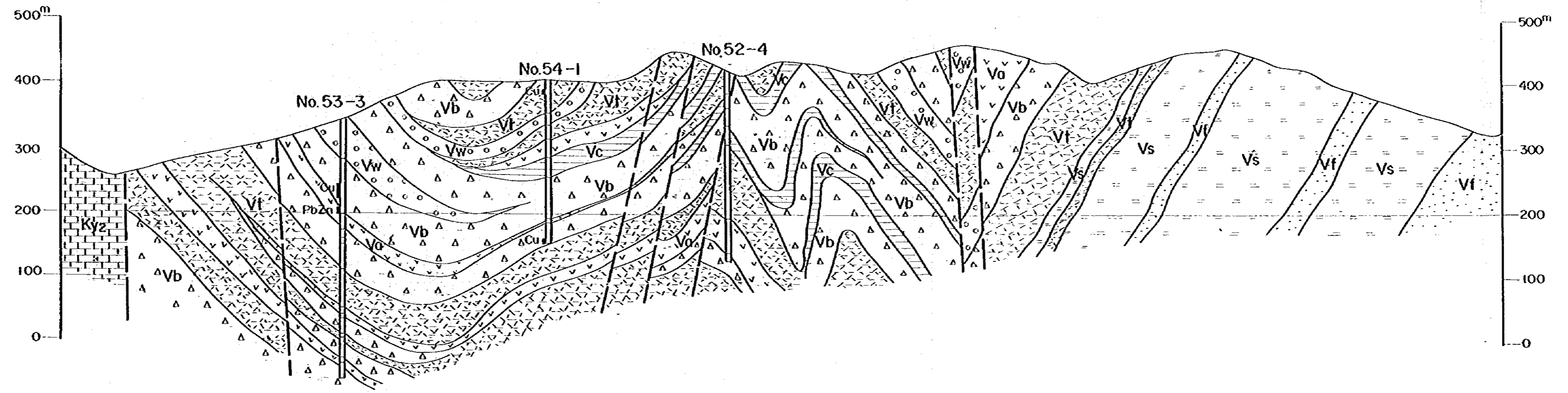


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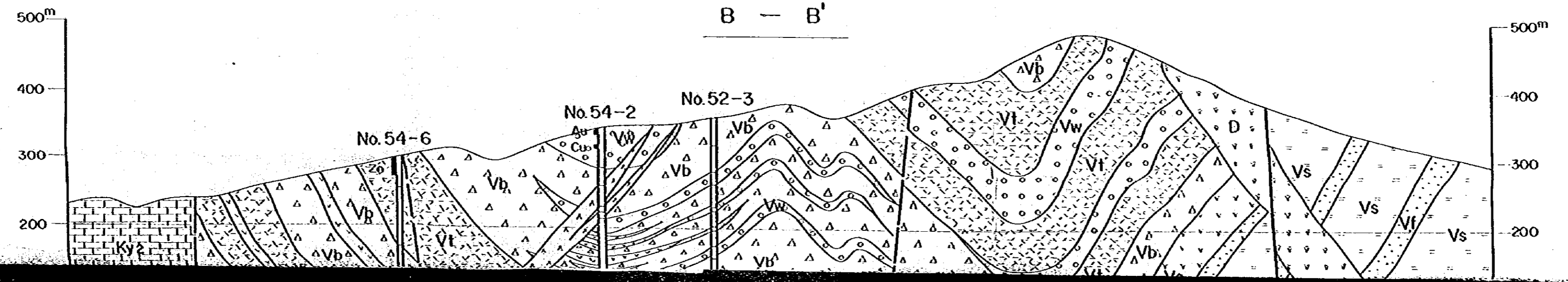
Formation	Stratigraphical Mark	Symbol	Lithology
Alluvium	[Blank box]	Q	gravel, sand & mud
Matagalpa F.	[A A A A]	Tm	basalt, andesite & pyroclastics
Alma F.	[I I I I]	Ky2	massive limestone
Minitas F.	[V V V V]	Mm	metaandesite, metaporphyrite & pyroclastics
	[X X X X]	Gd	granodiorite
	[L L L L]	Mr	liparite
Intrusive rock	[A A A A]	A	andesite dyke
	[A A A A]	P	porphyrite dyke
	[L L L L]	Dp	diorite porphyry
	[+ + + +]	Gp	granite porphyry & granodiorite porphyry

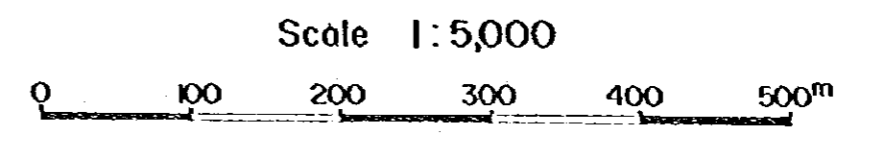
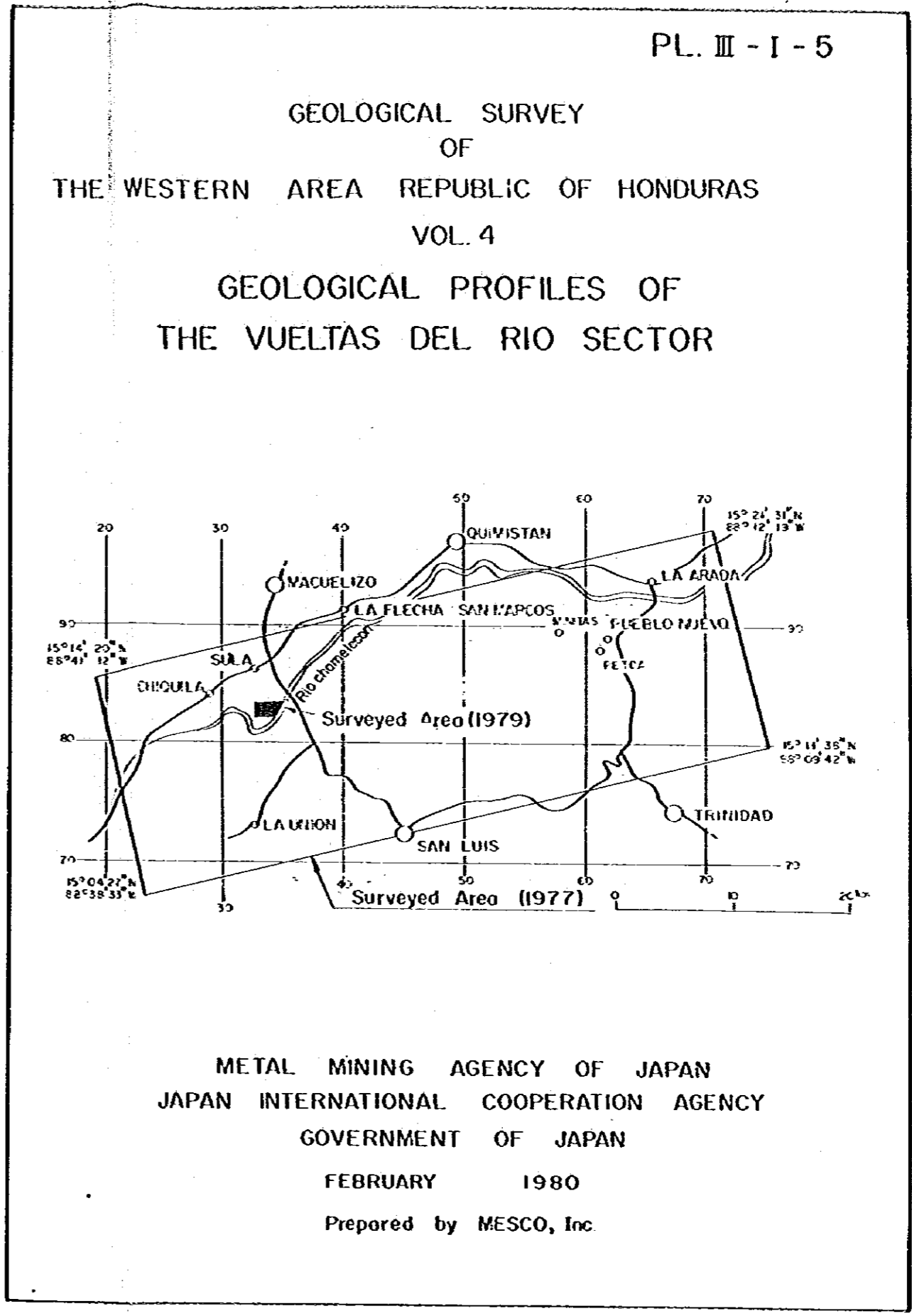
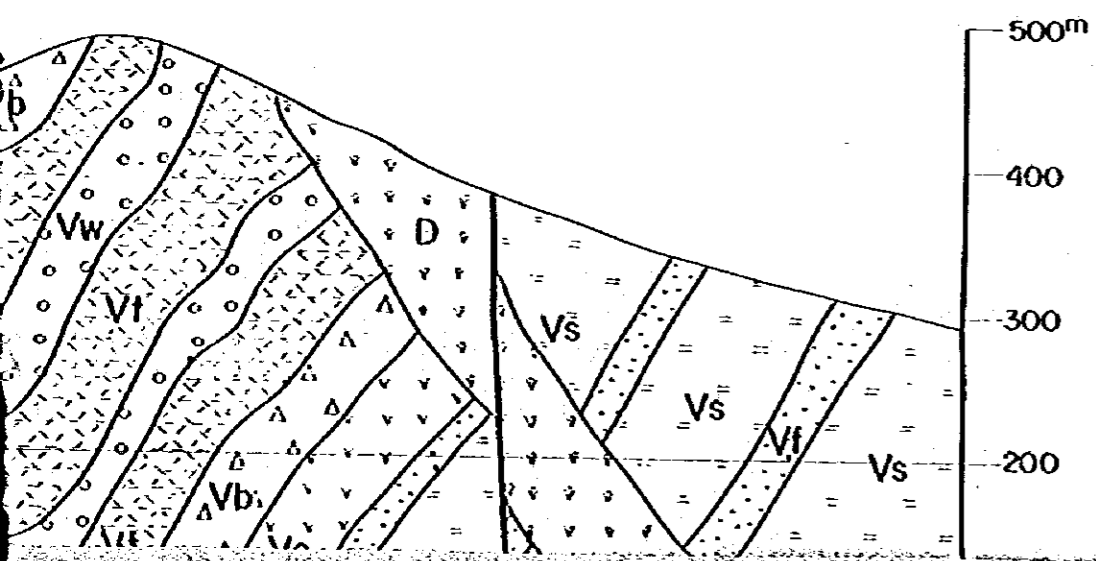
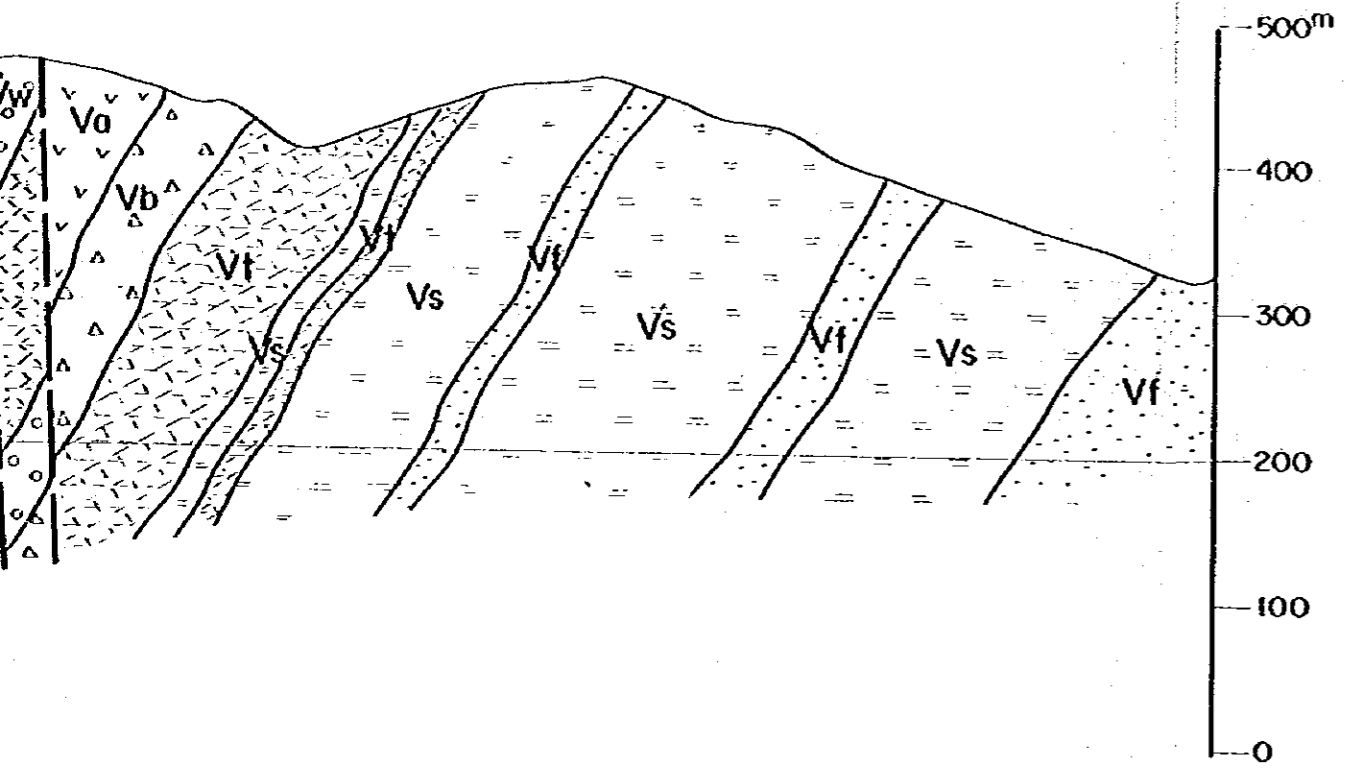
- [Symbol] bedding plane
- [Symbol] adit
- [Symbol] fissure
- [Symbol] mineral indication
- [Symbol] fault
- [Symbol] surveyed area
- UN30 DDH by UNDP (1969 ~ 1972)

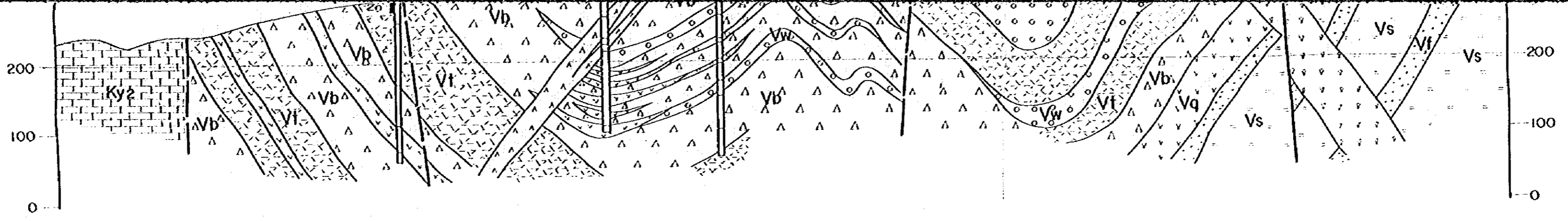
A — A'



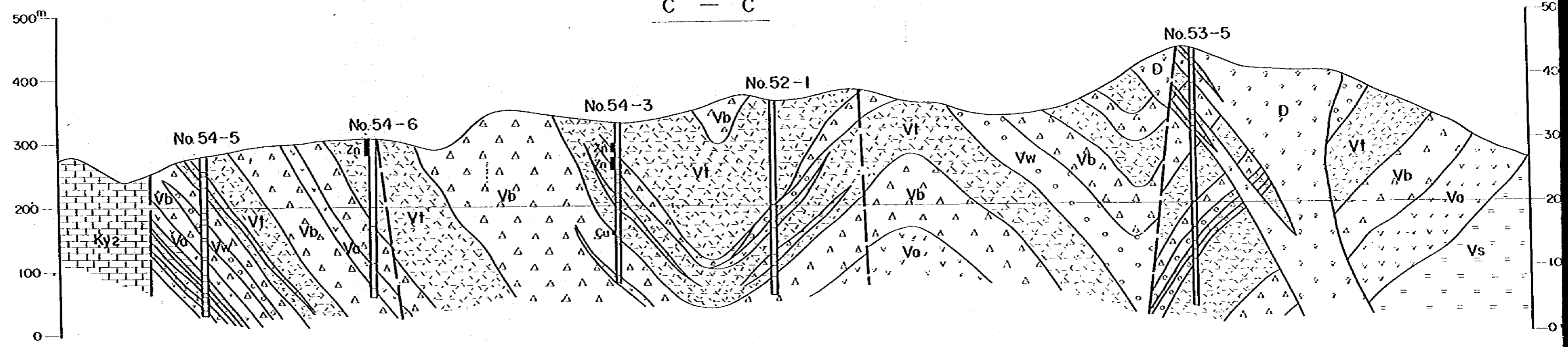
B — B'



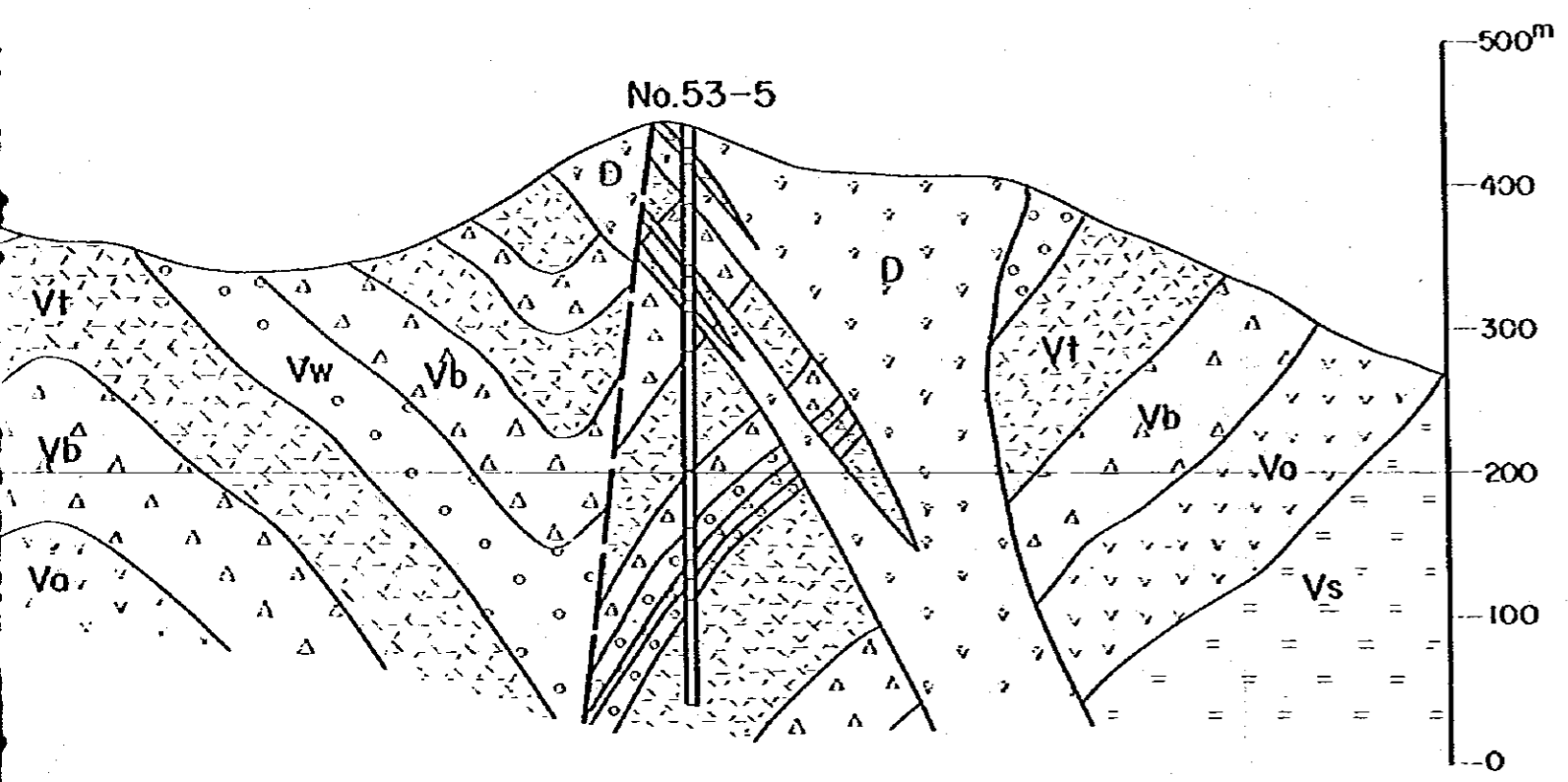
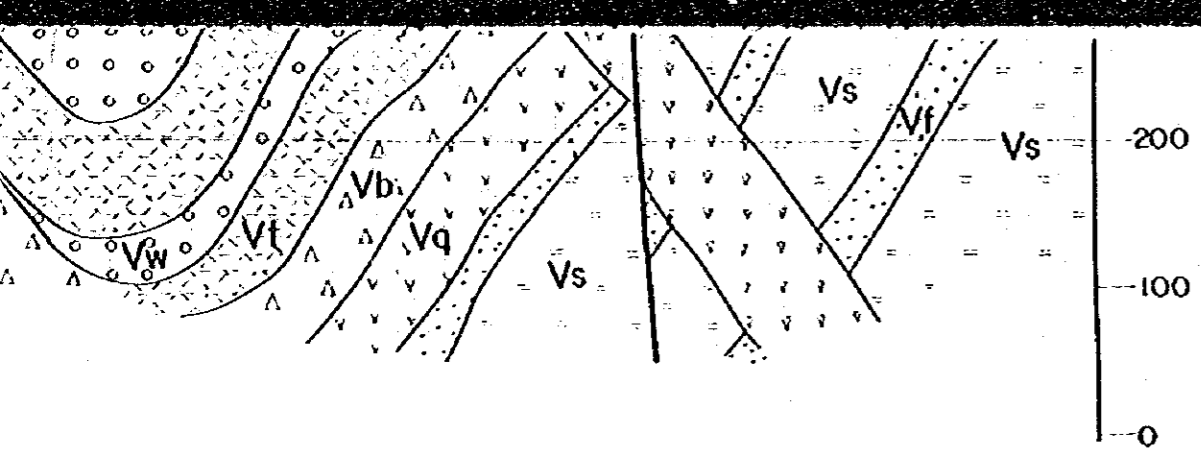




C — C'



D — D'

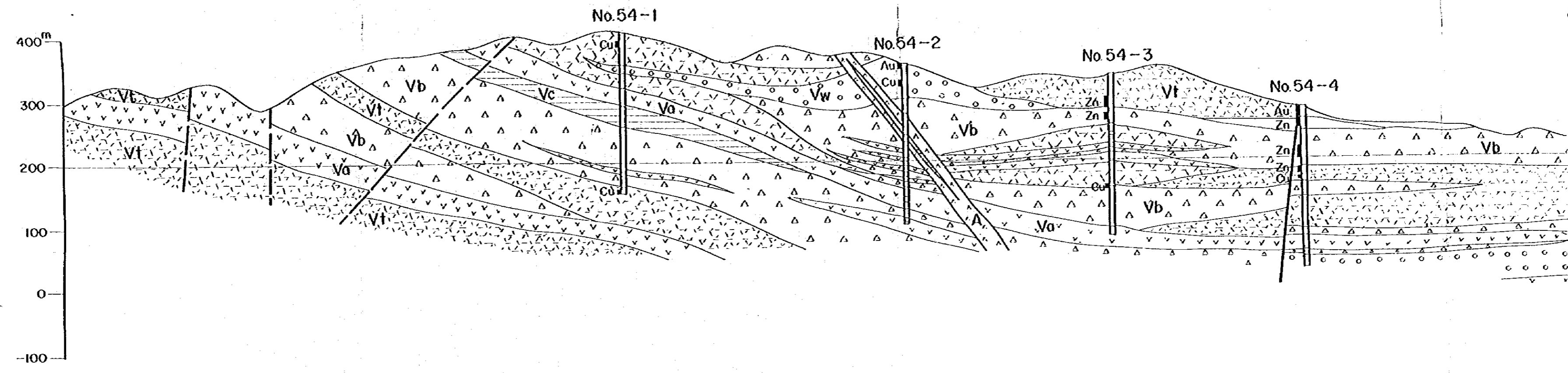


LEGEND

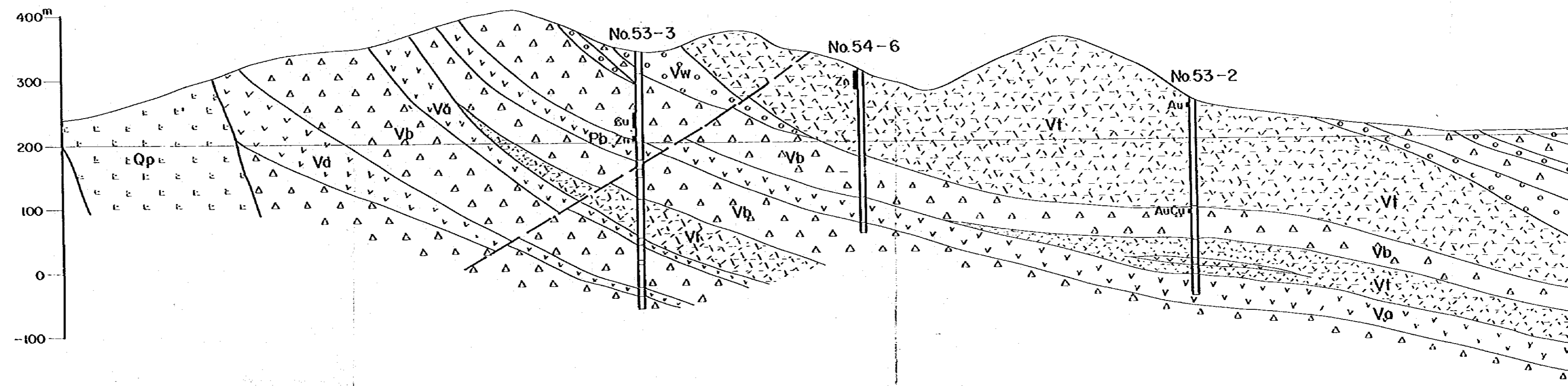
Formation	Stratigraphical		Lithology
	Mark	Symbol	
Alluvium		Q	gravel, sand & clay
Atimo F.		Ky2	massive limestone
Vueltas del Rio F.		Vt	meta tuff
		Vb	meta tuff breccia
		Vw	meta welded tuff & meta tuff
		Vc	shale
		Vg	conglomerate
		Vo	meta andesite & meta welded tuff
		Vs	schalstein, diabase, meta andesite & meta diabase
Intrusive rock		A	andesite & porphyrite dyke
		Qp	quartz porphyry
		D	dacite porphyry

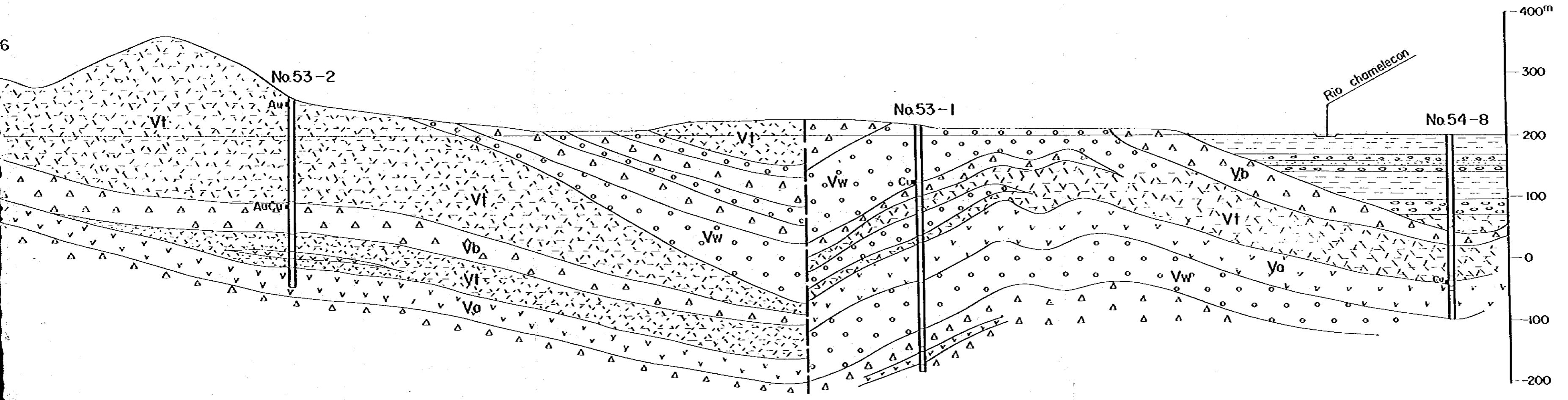
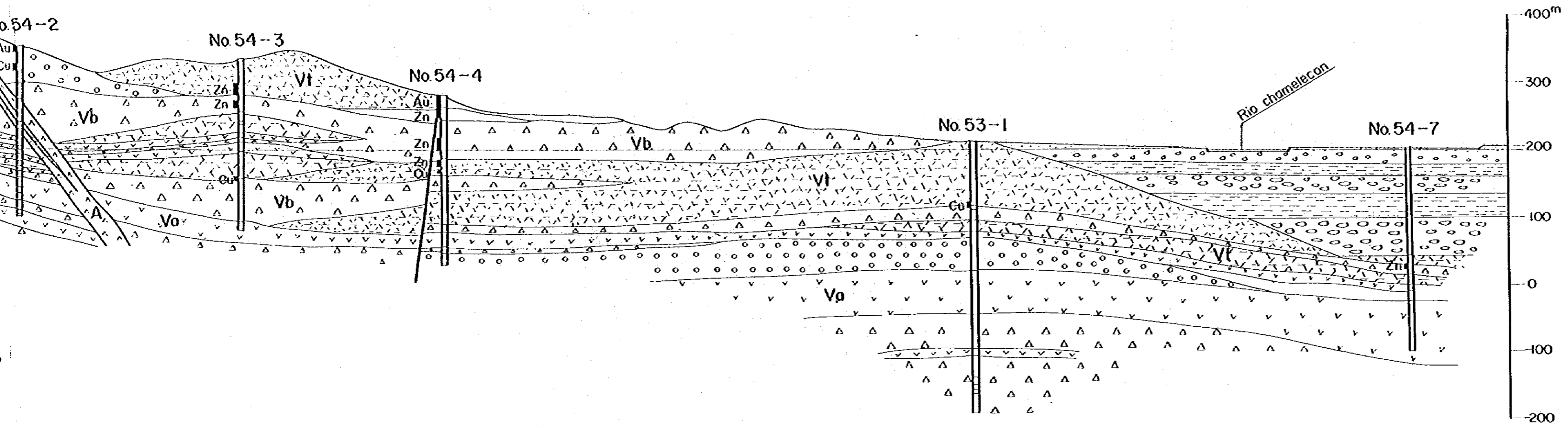
- fault
- mineral indication
- DDH by Japanese Team (1977~1979)

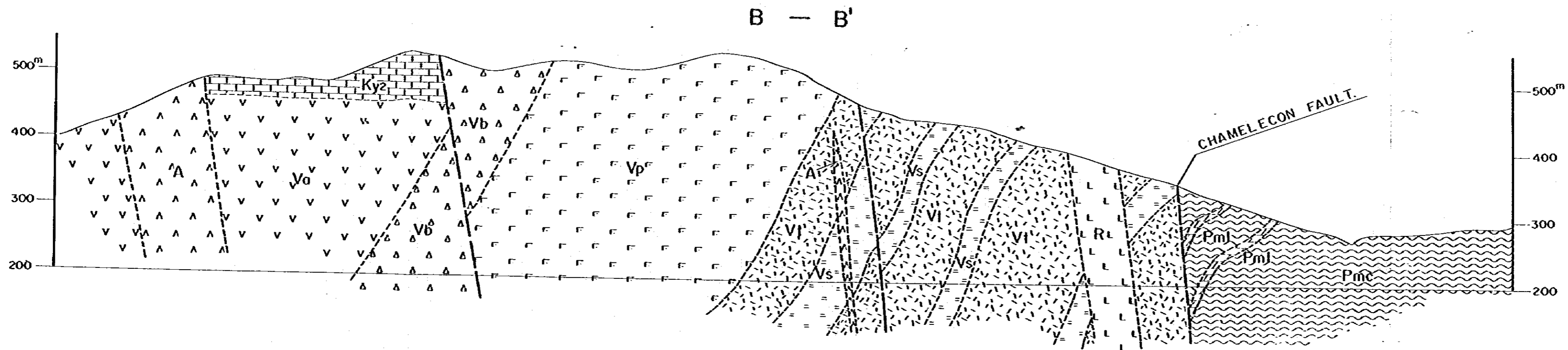
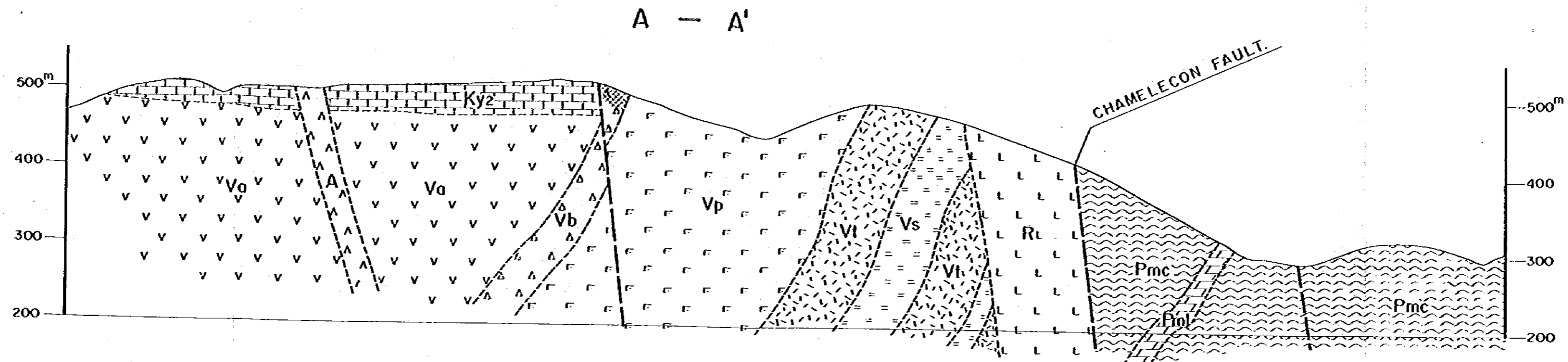
D — D'



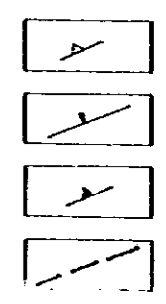
E — E'





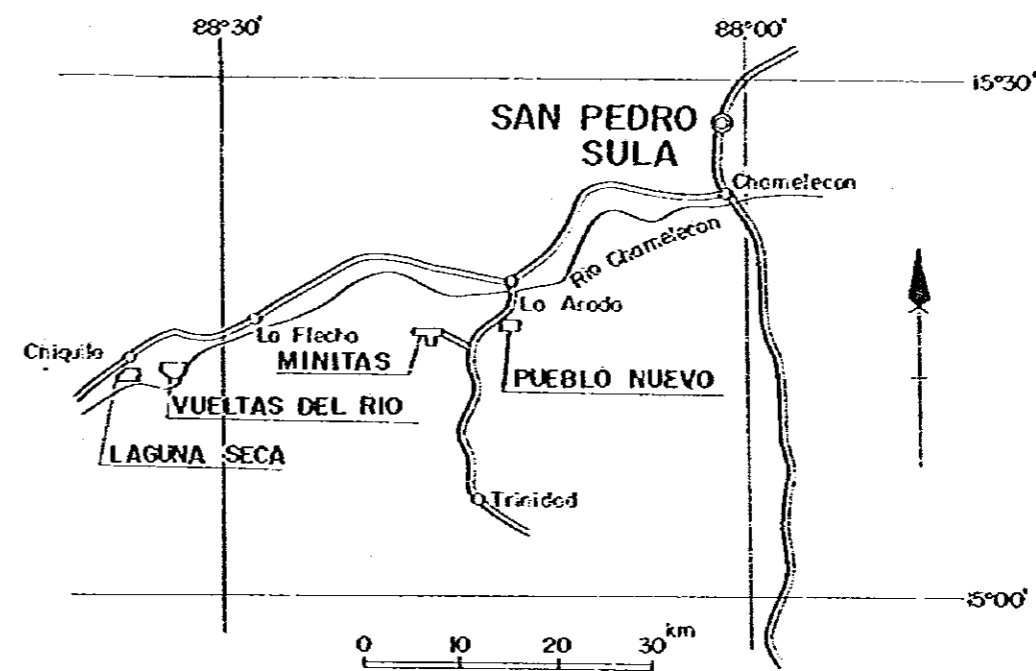


Formation
Alluvium
Atimo F.
Vueltas del Rio F.
Chiquila-Arado Group
Intrusive rock



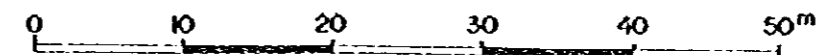
GEOLOGICAL SURVEY
OF
THE WESTERN AREA, REPUBLIC OF HONDURAS
VOL. 3

GEOLOGICAL PROFILES OF
THE LAGUNA SECA SECTOR



METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
GOVERNMENT OF JAPAN
FEBRUARY 1979
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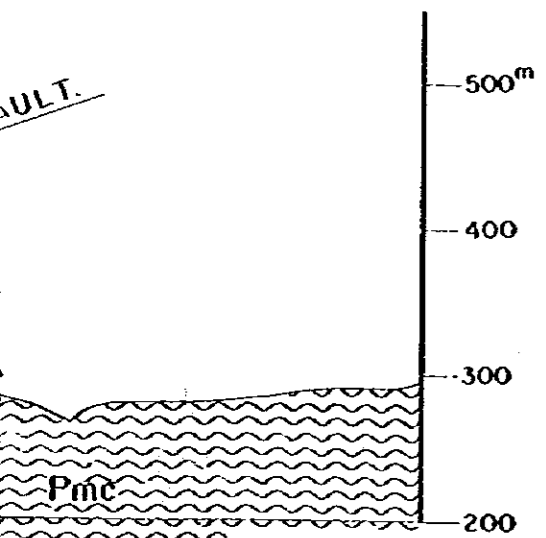
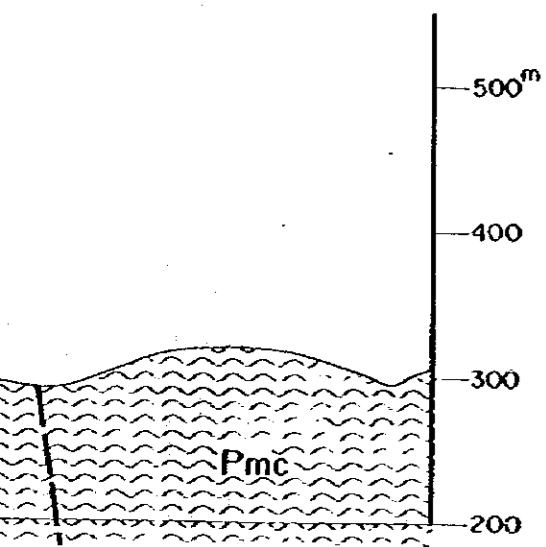
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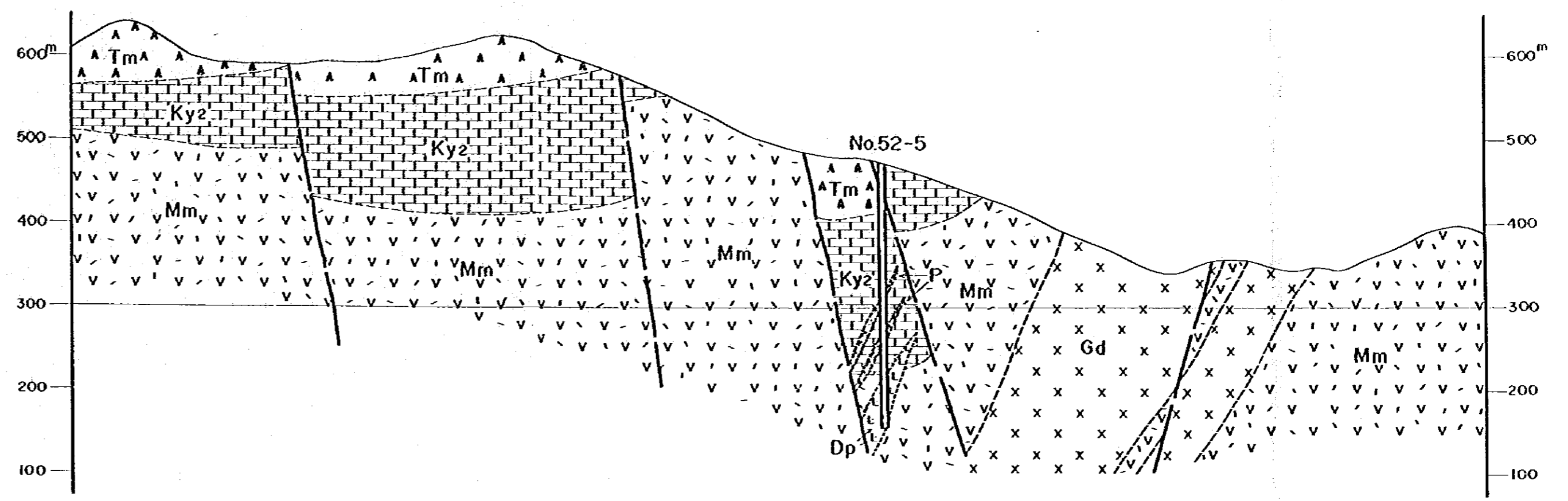
LEGEND

Formation	Stratigraphical		Lithology
	Mark	Symbol	
Alluvium		Q	gravel, sand & mud
Alima F.		Ky2	massive limestone
Vueltas del Rio F.		V1	tuff
		Vb	tuff breccia
		Vw	welded tuff & tuff
		Vc	shale
		Vg	conglomerate
		Vo	metaandesite & welded tuff
		Vp	dioritic porphyry
		Vs	schalstein, diabase, metaandesite & metadiabase
		Vf	fine tuff
	Chiquila-Arada Group		Pmc
		Pml	crystalline limestone
Intrusive rock		A	andesite & porphyrite dyke
		Qp	quartz porphyry
		R	liporite
		D	dacite porphyry

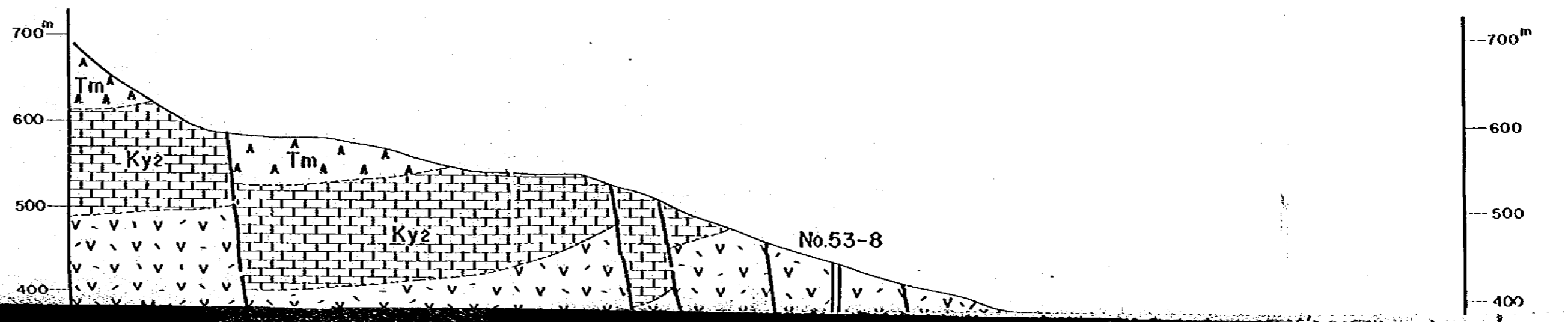
- | | | | |
|--|---------------|--|--------------------------------|
| | bedding plane | | anticlinal axis/synclinal axis |
| | fissure | | gdil |
| | schistosity | | silicified zone |
| | fault | | |



A — A'

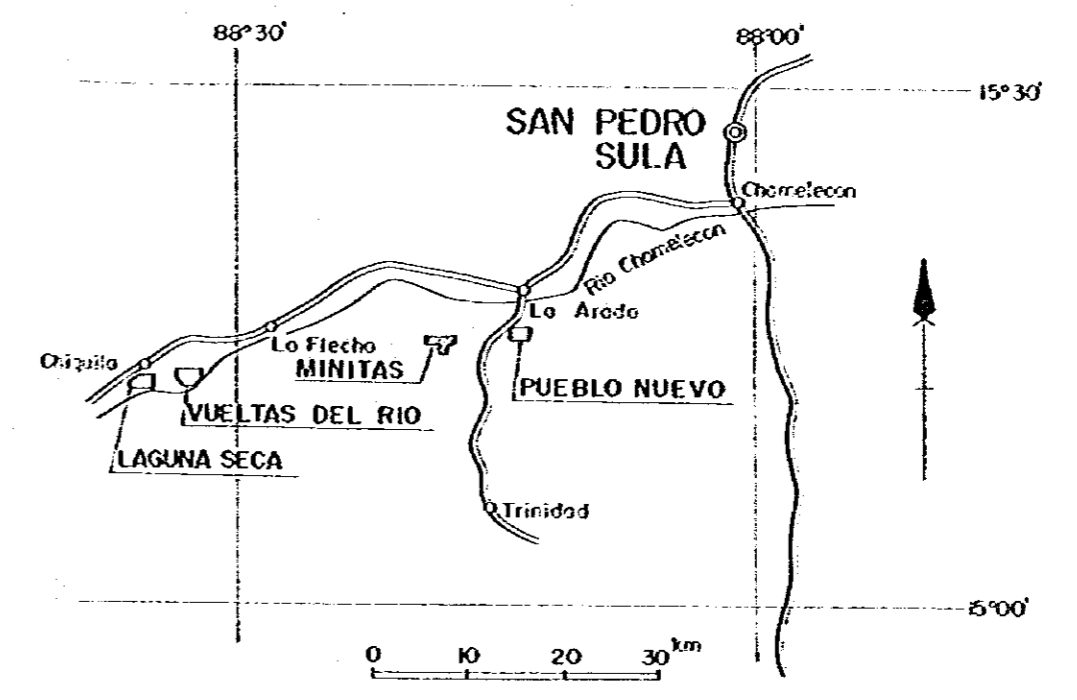


B — B'



GEOLOGICAL SURVEY
OF
THE WESTERN AREA, REPUBLIC OF HONDURAS
VOL. 3

GEOLOGICAL PROFILES OF
THE MINITAS SECTOR

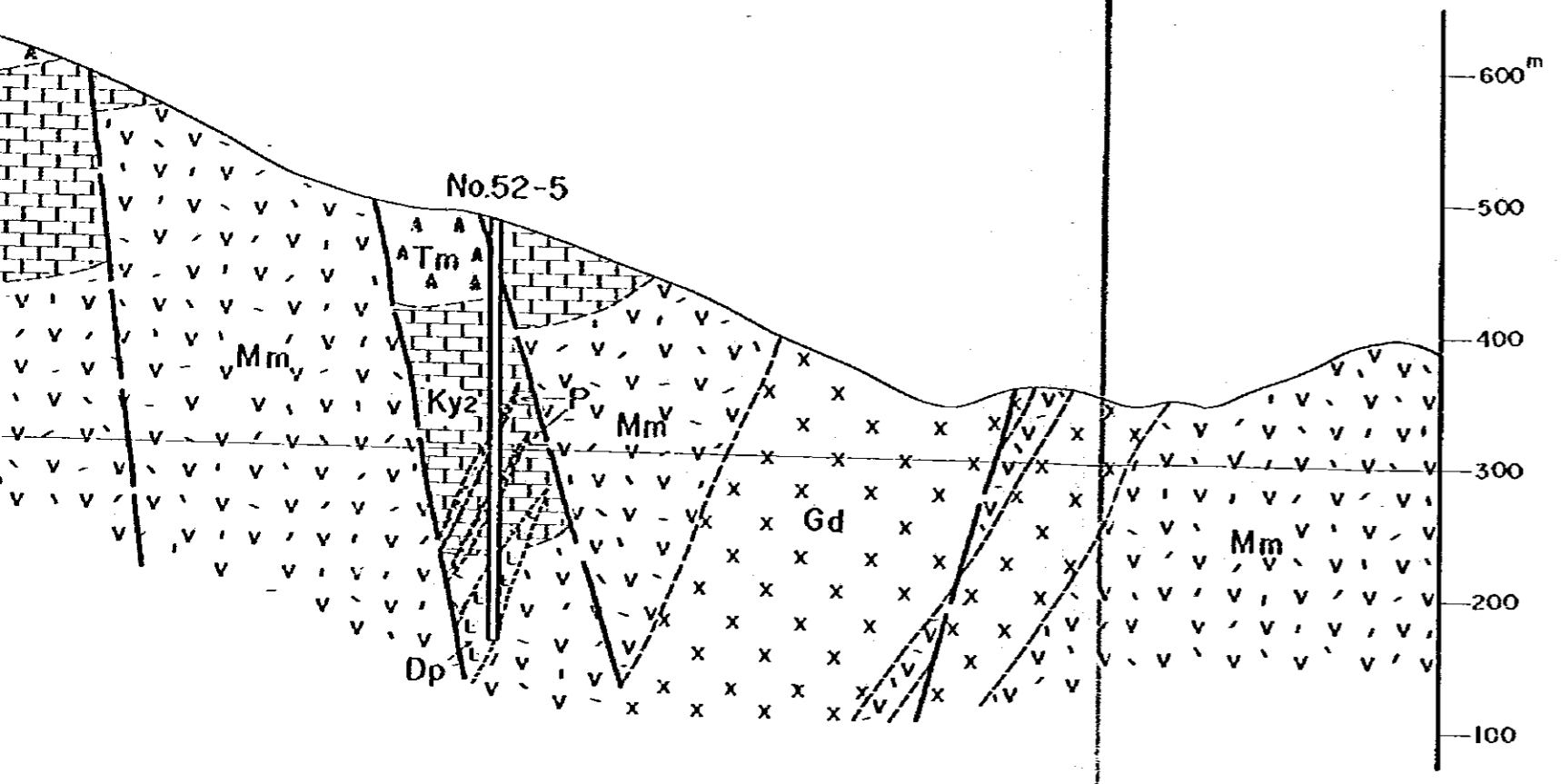


METAL MINING AGENCY OF JAPAN
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Scale 1 : 5,000

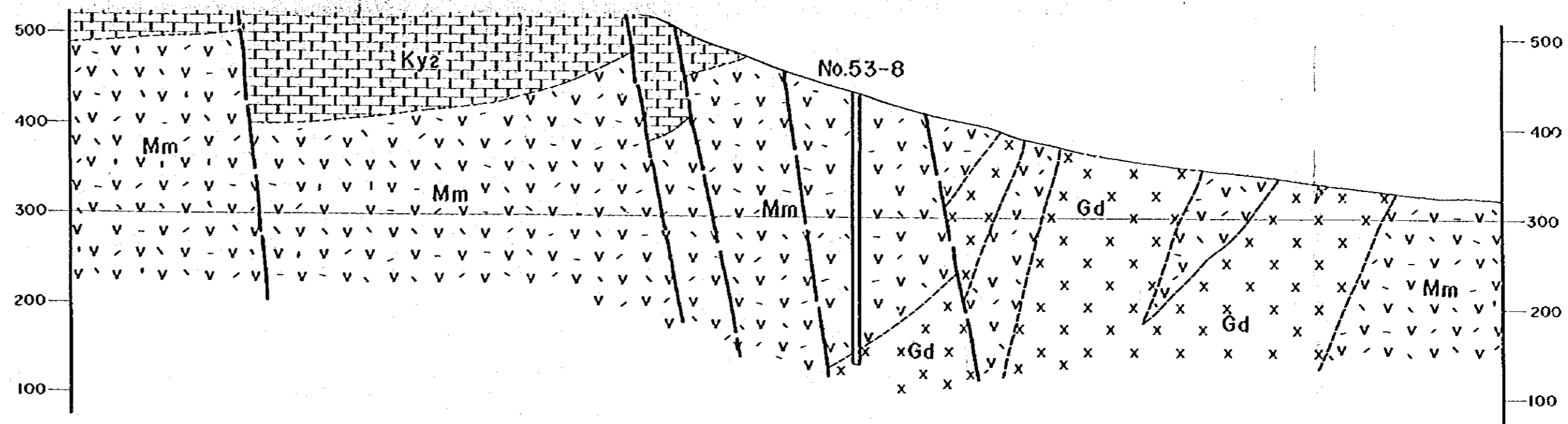


A — A'

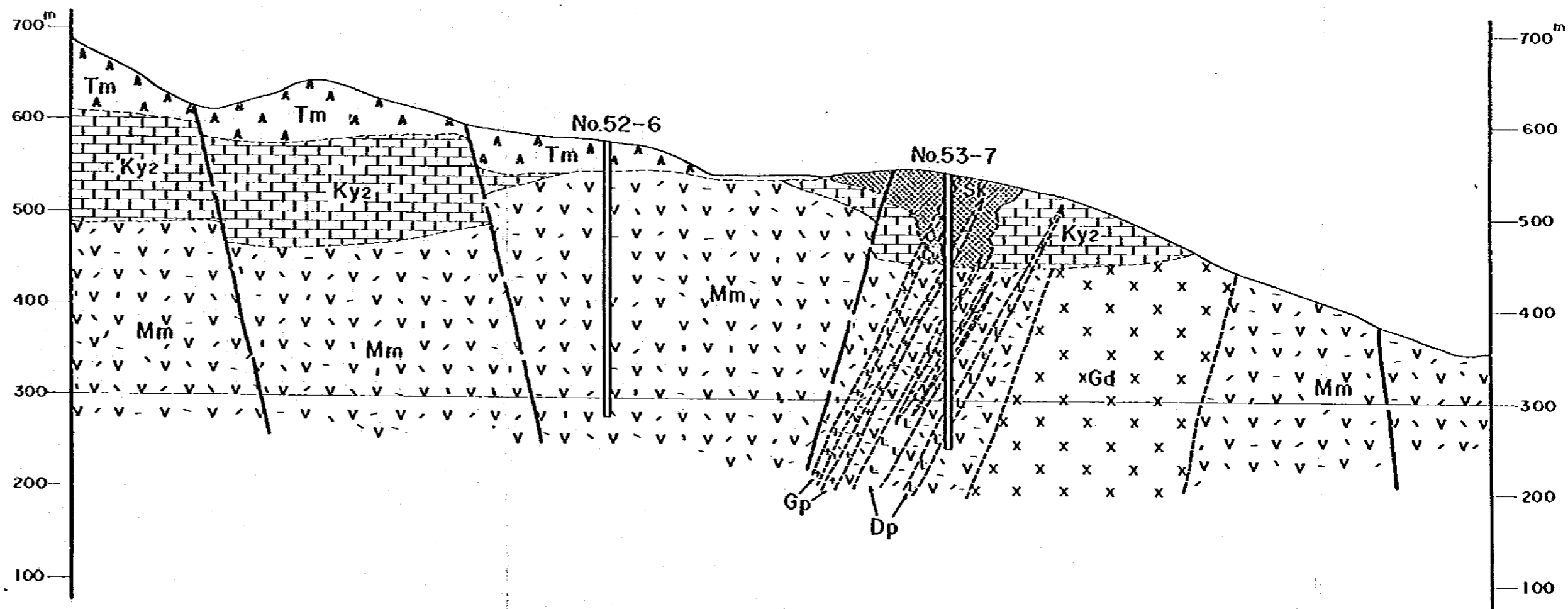


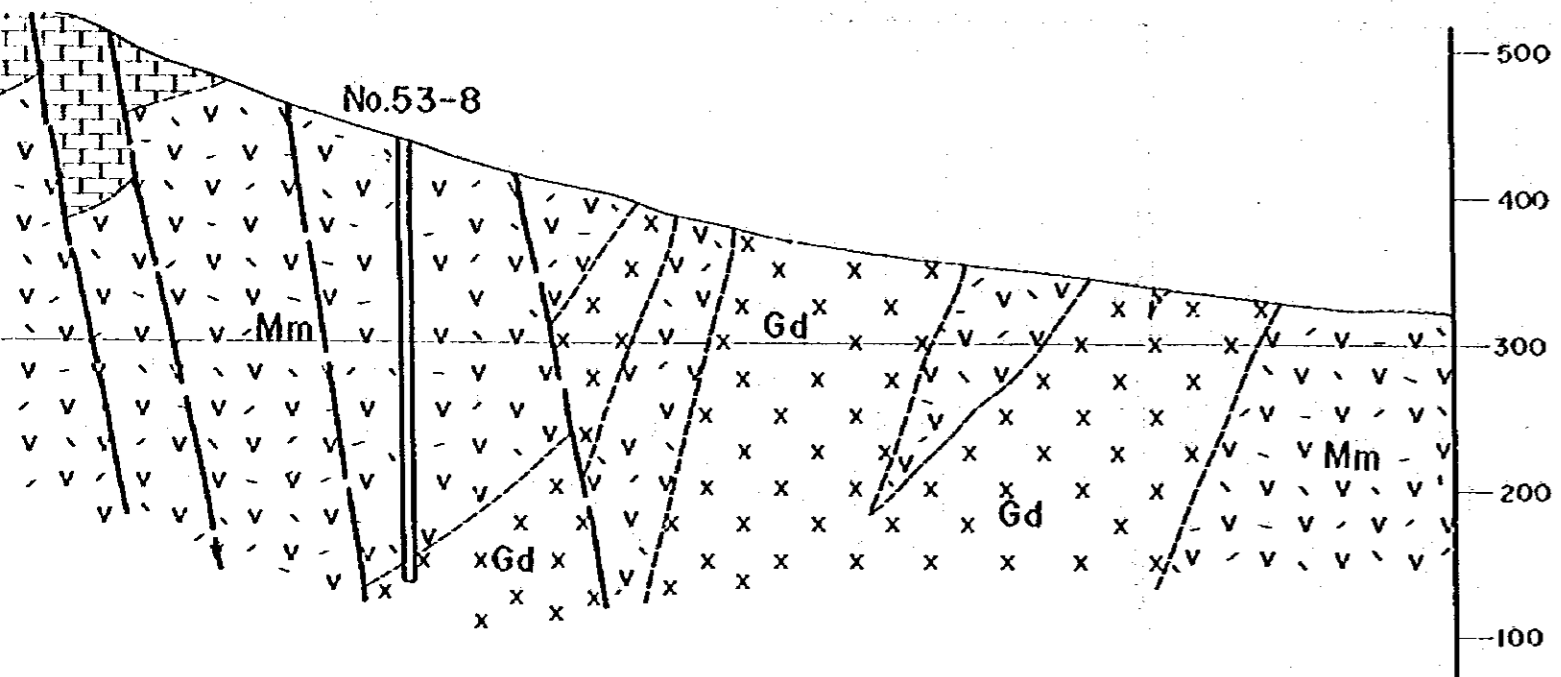
B — B'



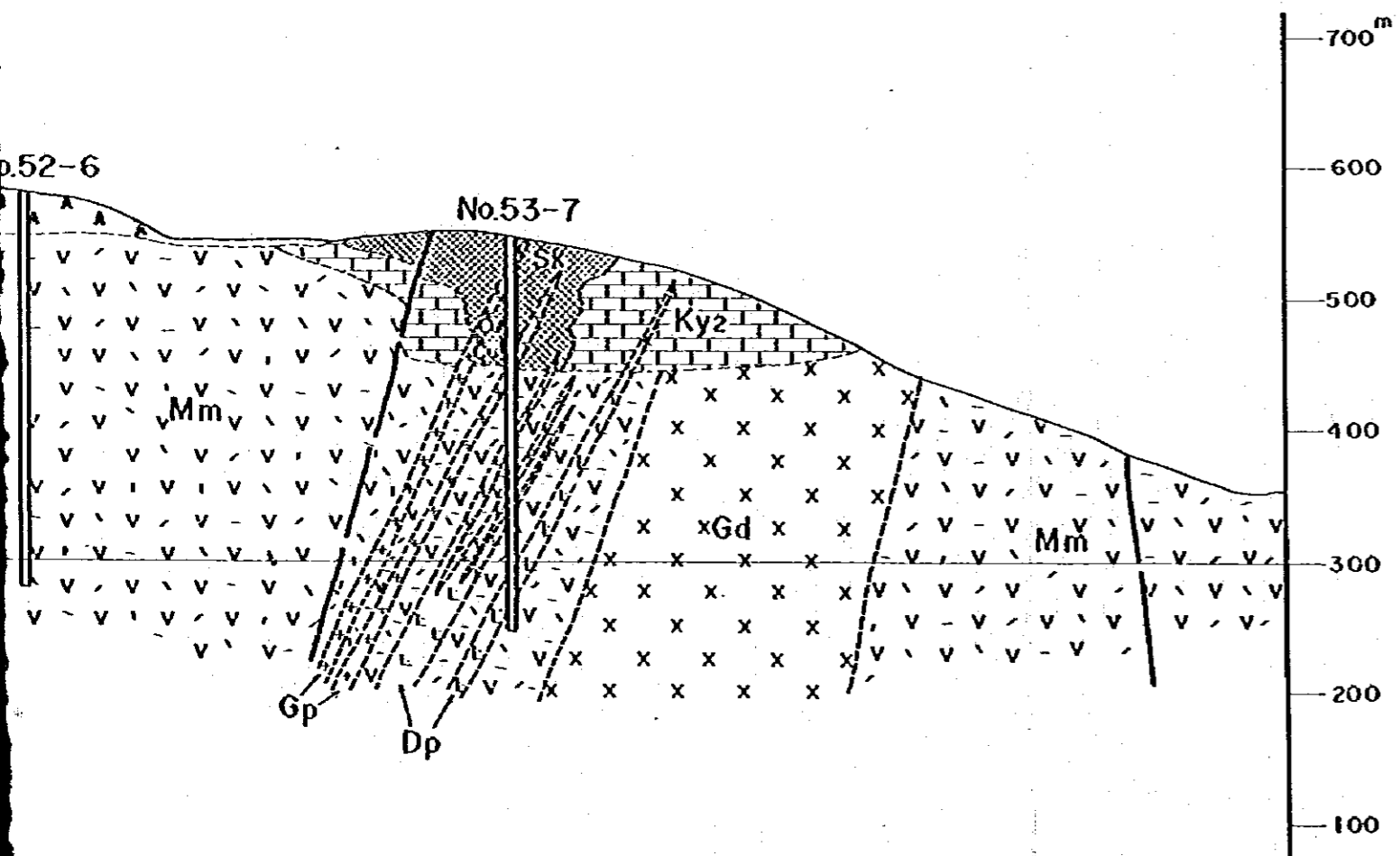


C — C'



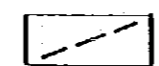


C — C'

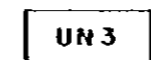


LEGEND

Formation	Stratigraphical		Lithology
	Mark	Symbol	
Alluvium		Q	gravel, sand & mud
Motagalpa F.		Tm	basalt, andesite & pyroclastics
Atima F.		Ky2	massive limestone
Minitas F.		Mm	meta-andesite, metaporphyrite & pyroclastics
		Gd	granodiorite
		Mr	liparite
Intrusive rock		A	andesite dyke
		P	porphyrite dyke
		Dp	granite porphyry
		Gp	granite porphyry & granodiorite porphyry



fault



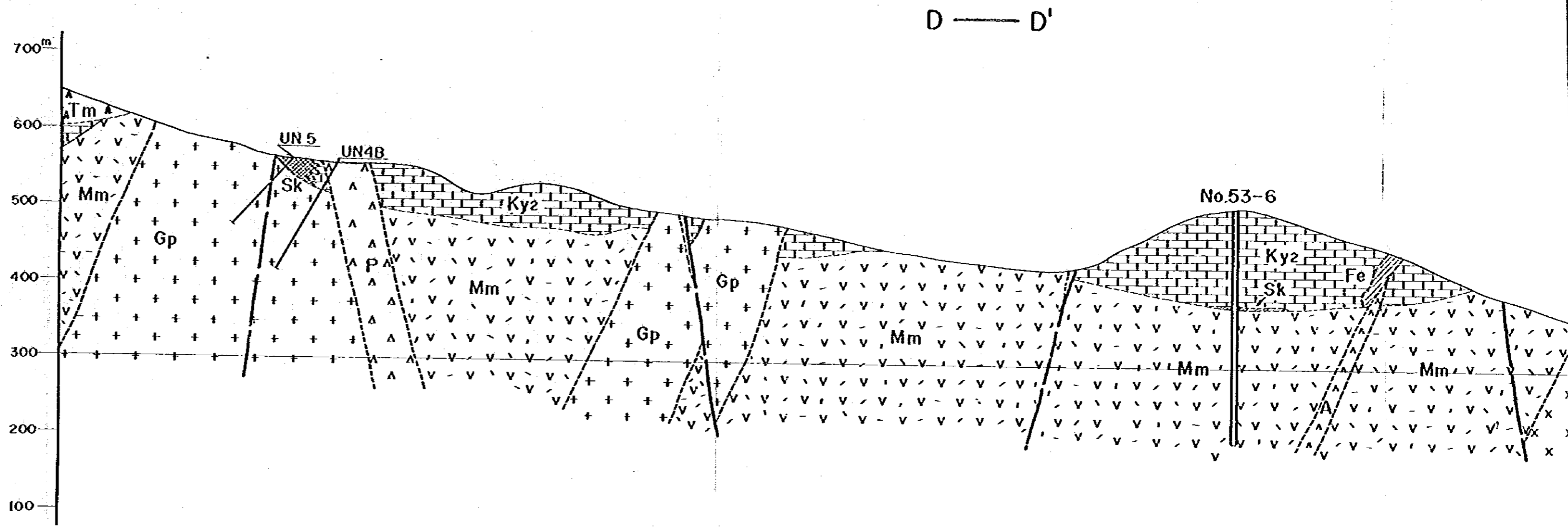
DDH by UNDP
(1969-1972)



mineralized zone (skarn)



mineralized zone (Fe gossan)



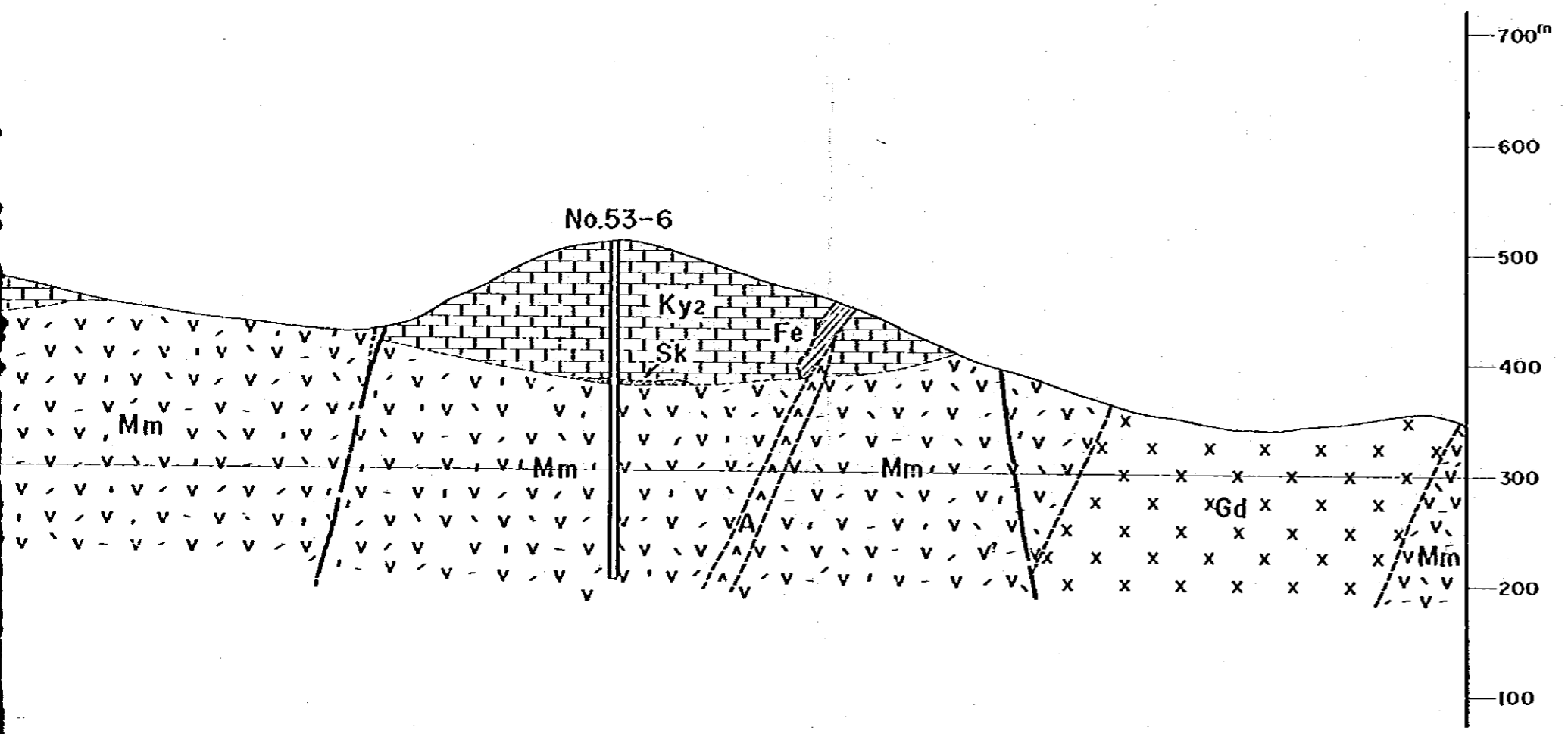
D — D'

E — E'

600m

No. 53-7

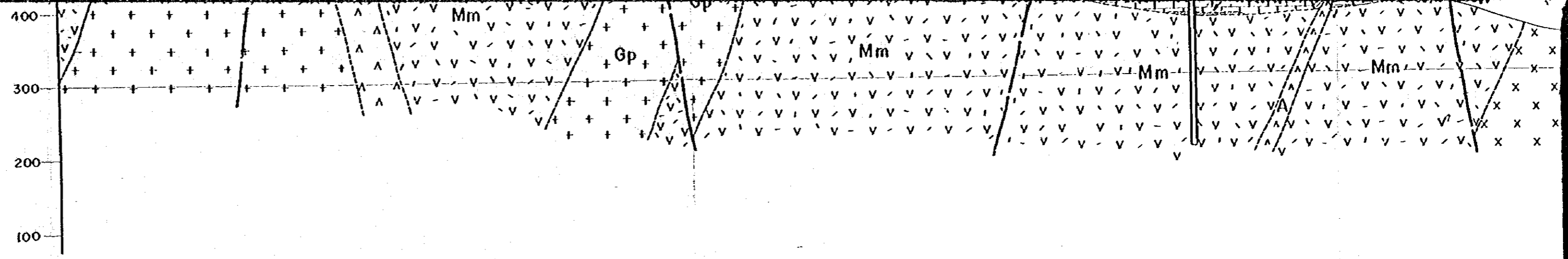
D — D'



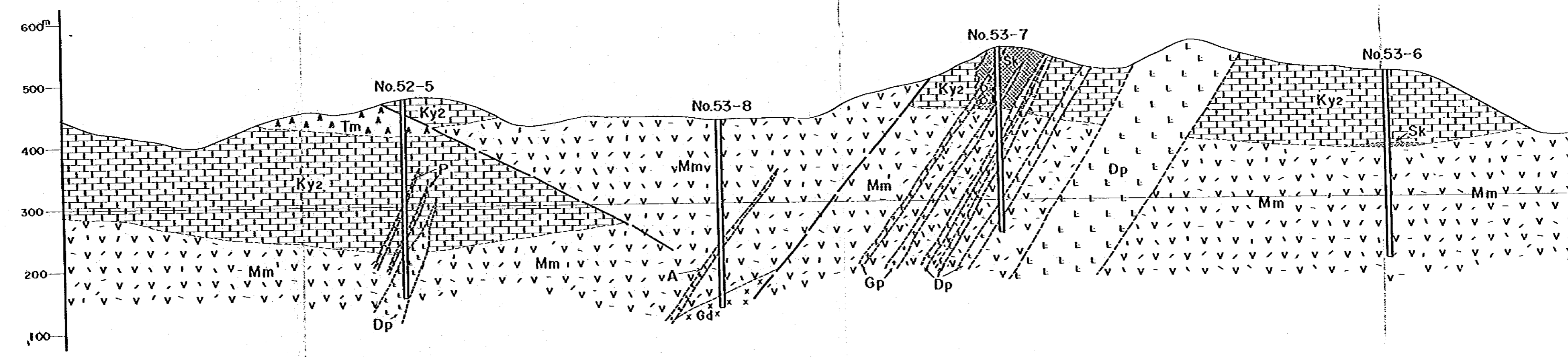
E — E'

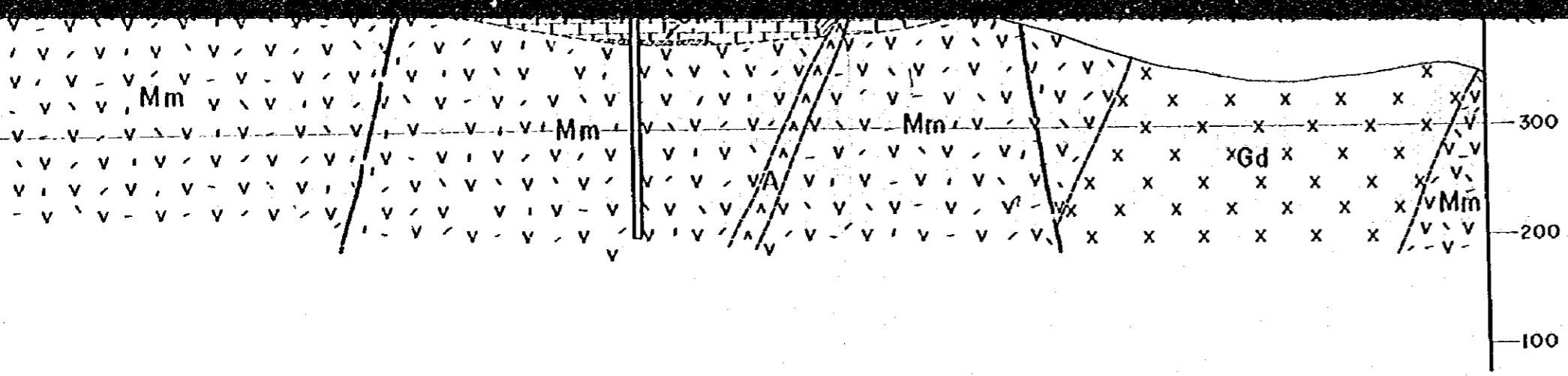
No.53-7

600m

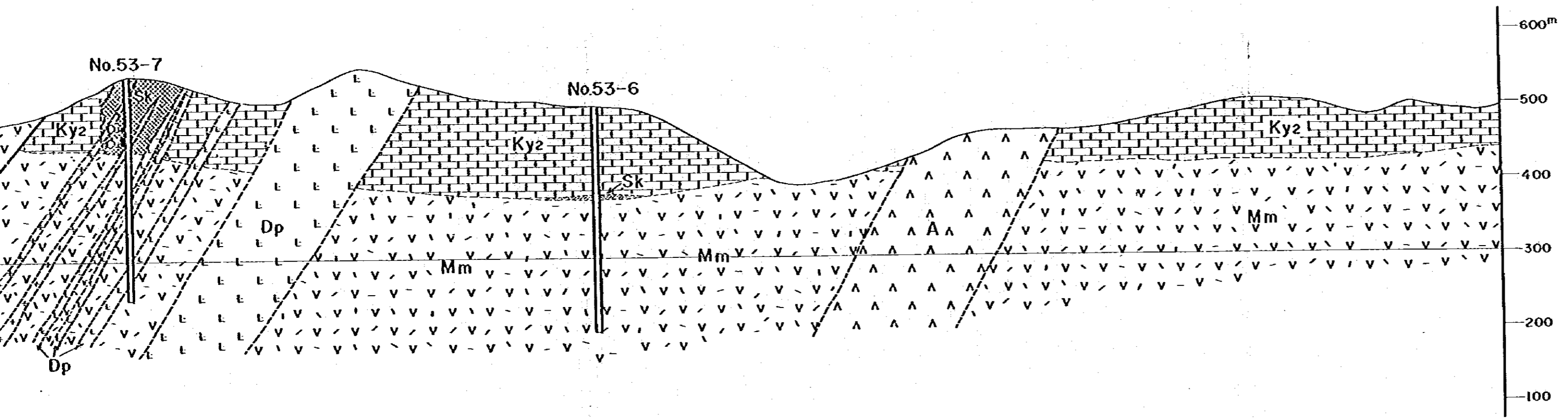


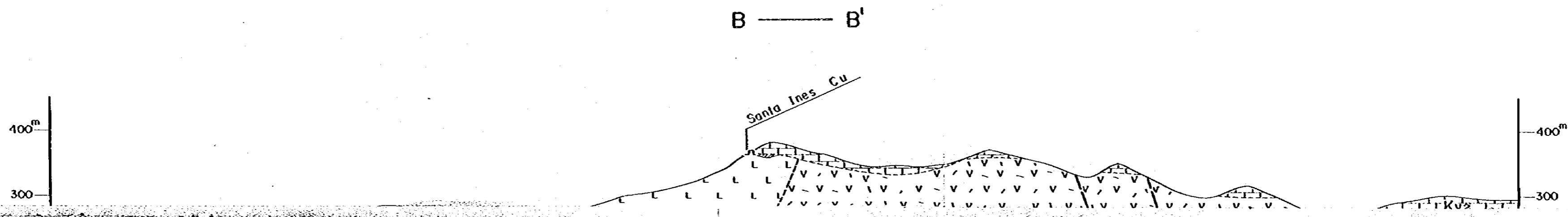
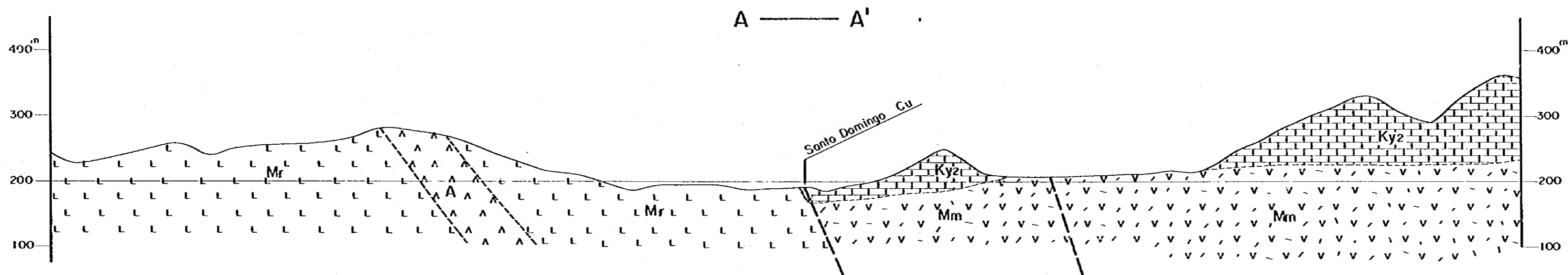
E — E'

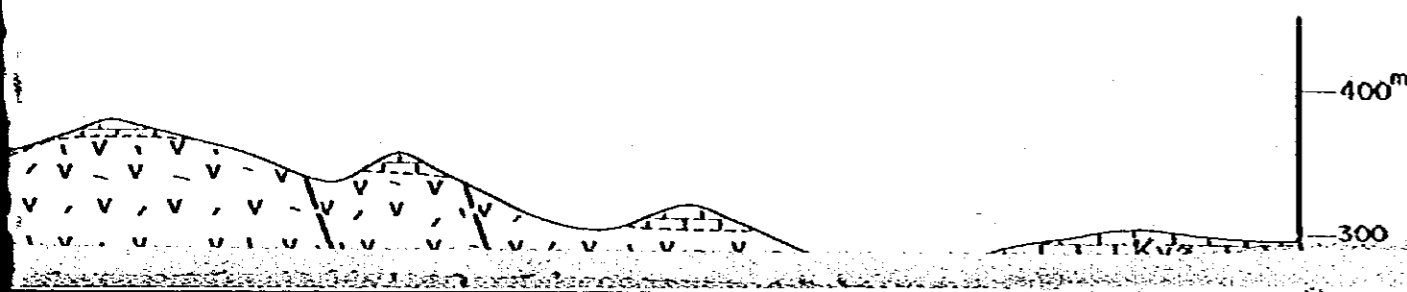
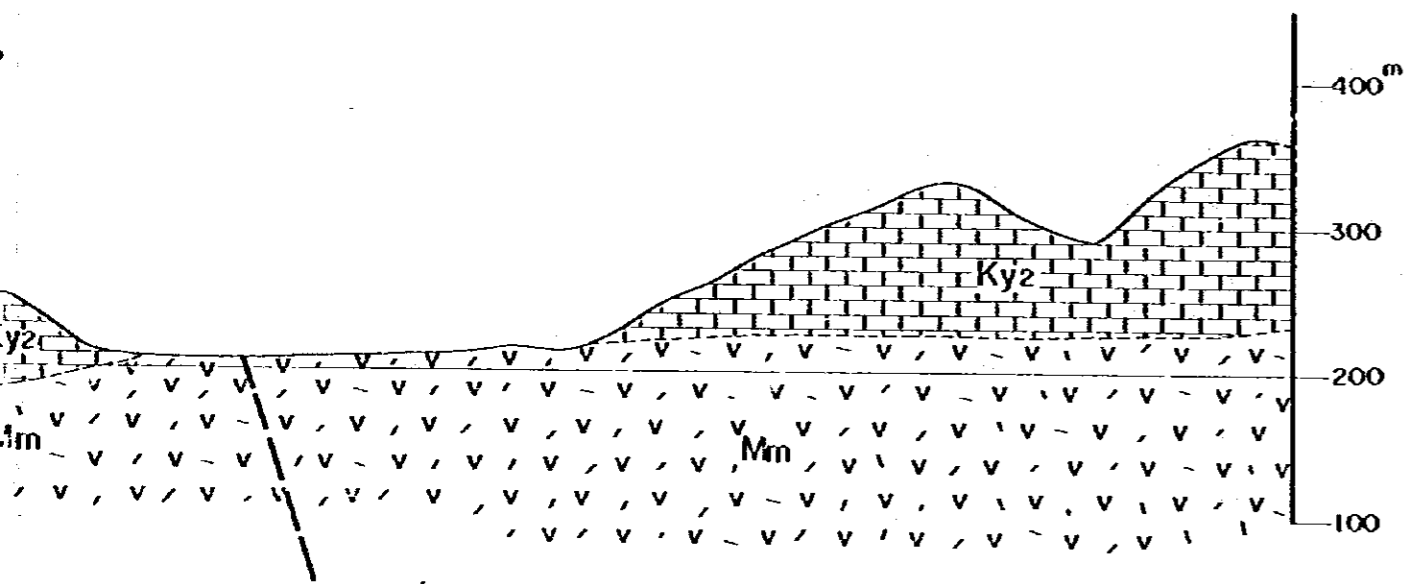




E — E'





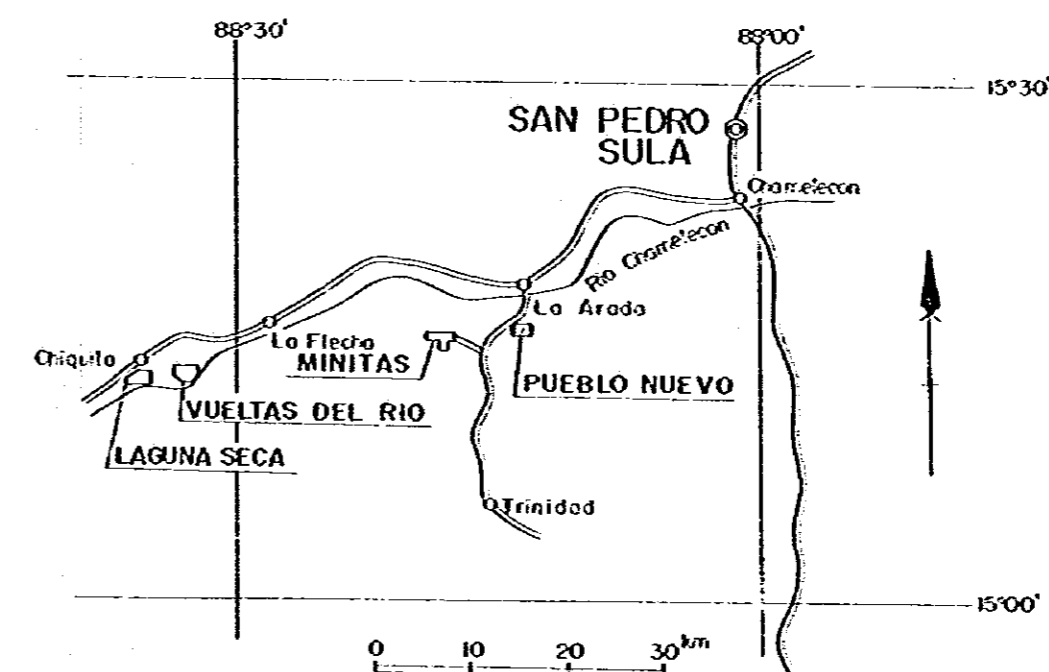


PL. III-1-8

GEOLOGICAL SURVEY
OF
THE WESTERN AREA, REPUBLIC OF HONDURAS

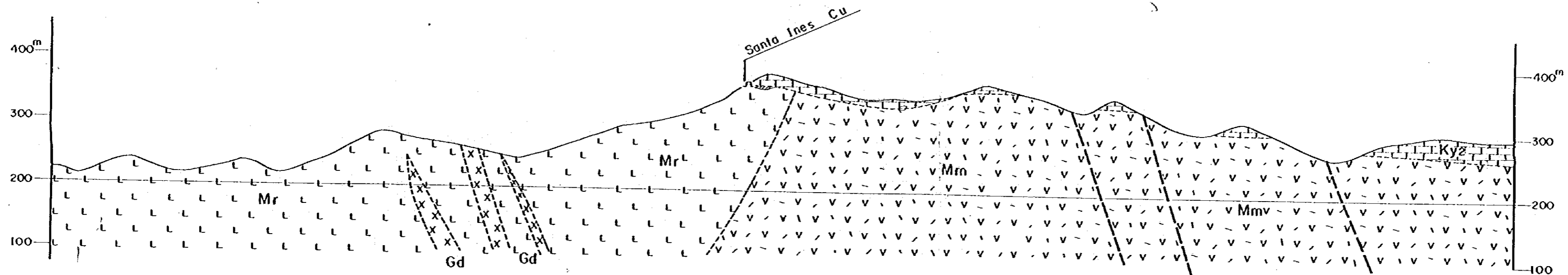
VOL. 3

GEOLOGICAL PROFILES OF
THE PUEBLO NUEVO SECTOR

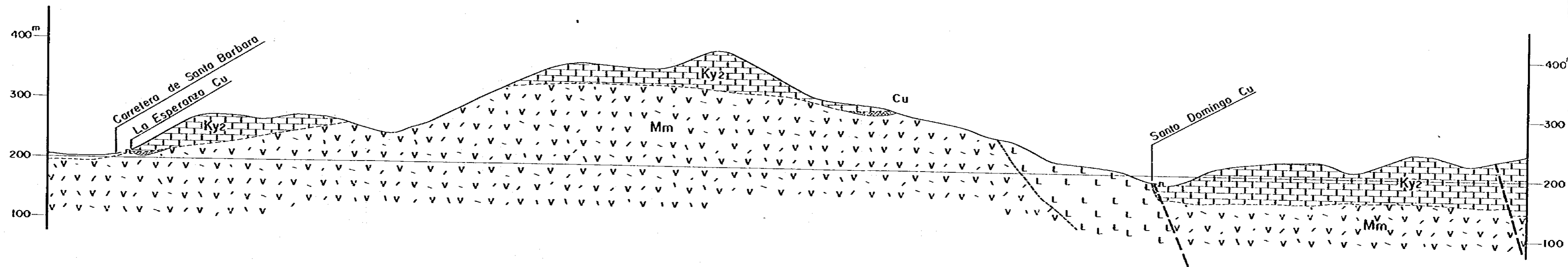


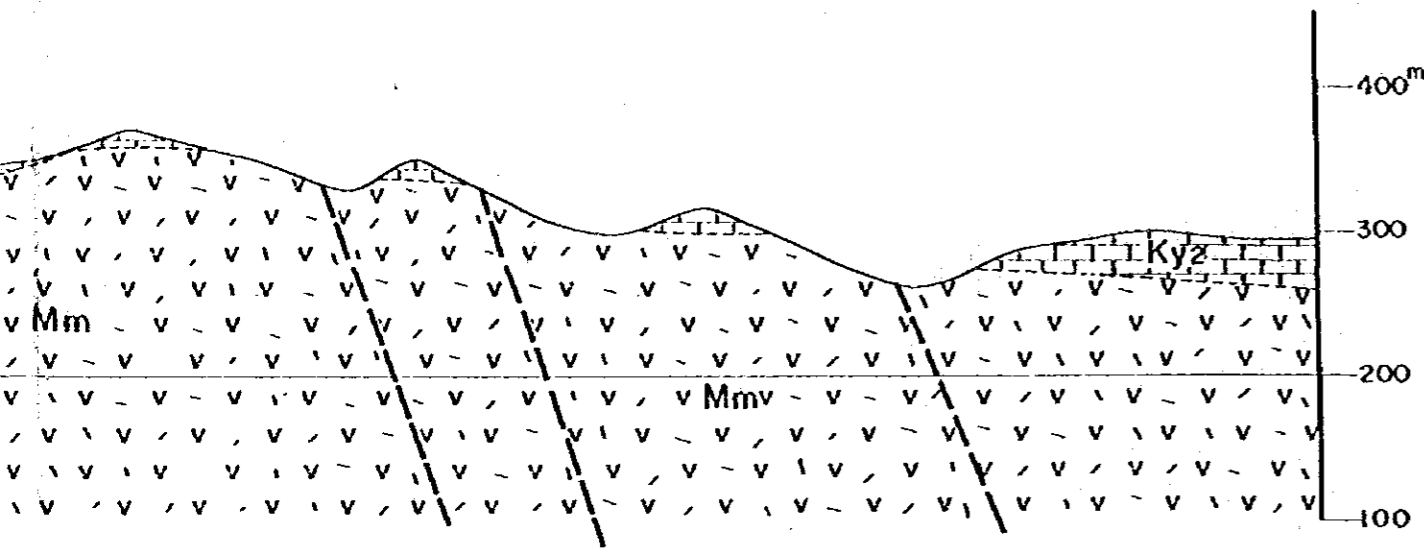
METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
GOVERNMENT OF JAPAN
FEBRUARY 1979
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Scale - 1 : 5,000



C — C'



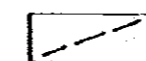


Scale 1 : 5,000



LEGEND

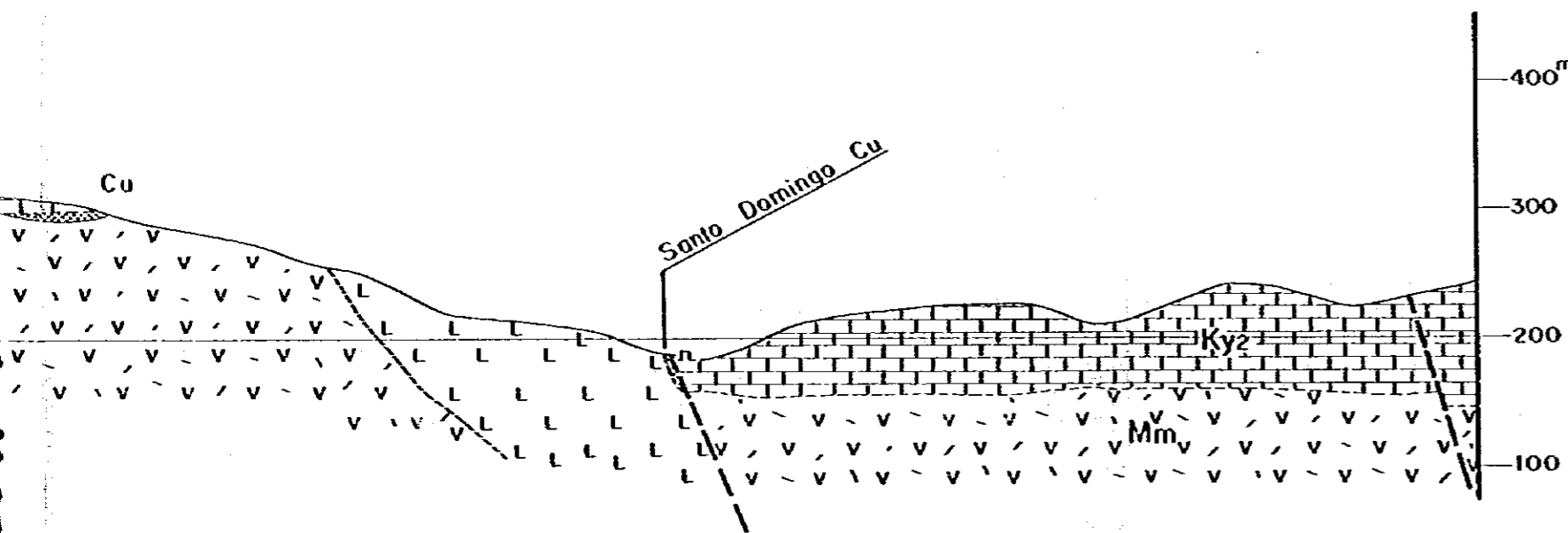
Formation	Stratigraphical Mark	Symbol	Lithology
Alluvium		Q	gravel, sand & mud
Motagalpa F.		Tm	basalt, andesite & pyroclastics
Atima F.		Ky2	massive limestone
Minitas F.		Mm	metaandesite, metaporphyrile & pyroclastics
		Gd	granodiorite
		Mr	liporite
Intrusive rock		A	andesite dyke
		P	porphyrite dyke
		Dp	diorite porphyry
		Gp	granite porphyry & granodiorite porphyry

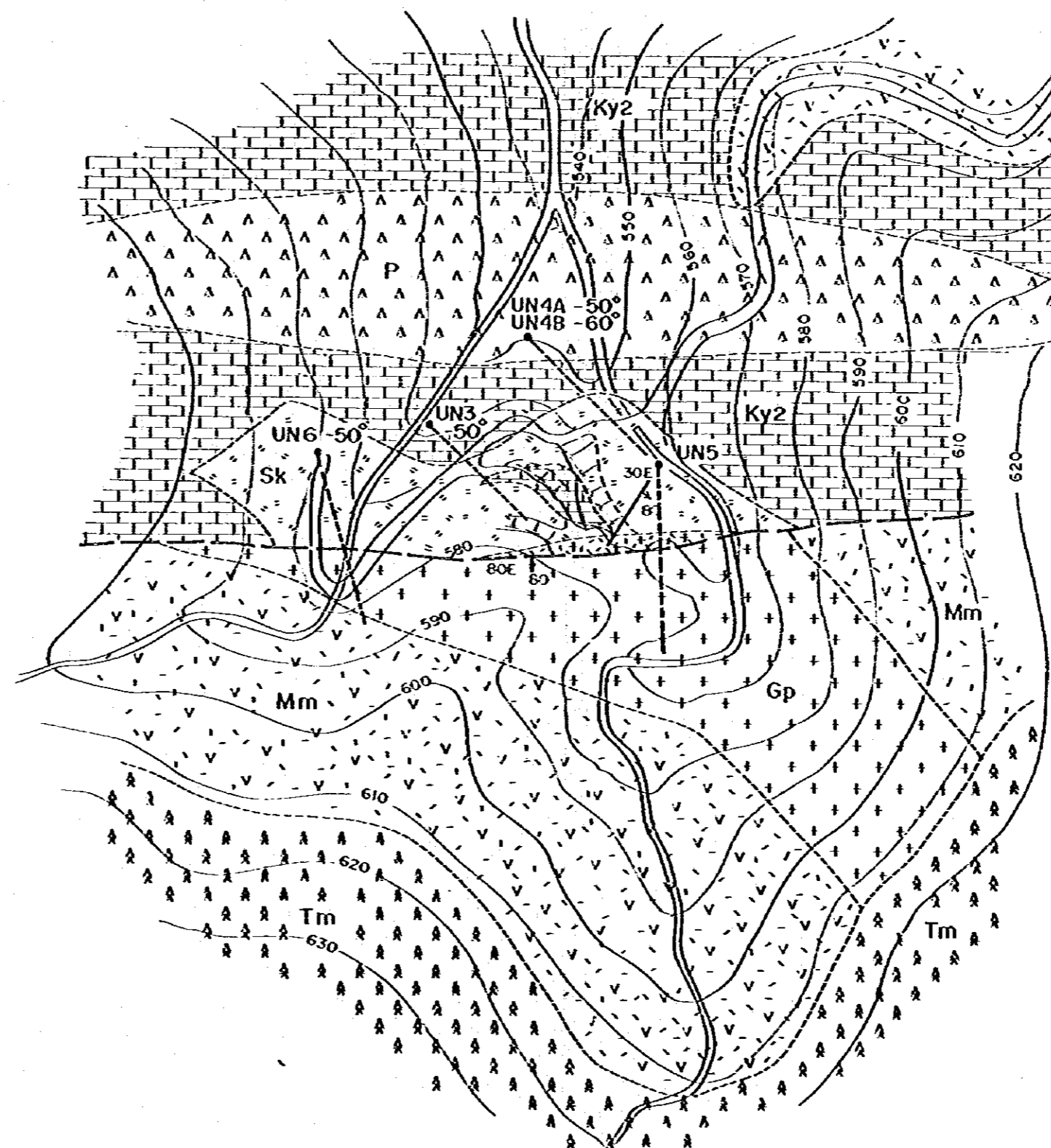
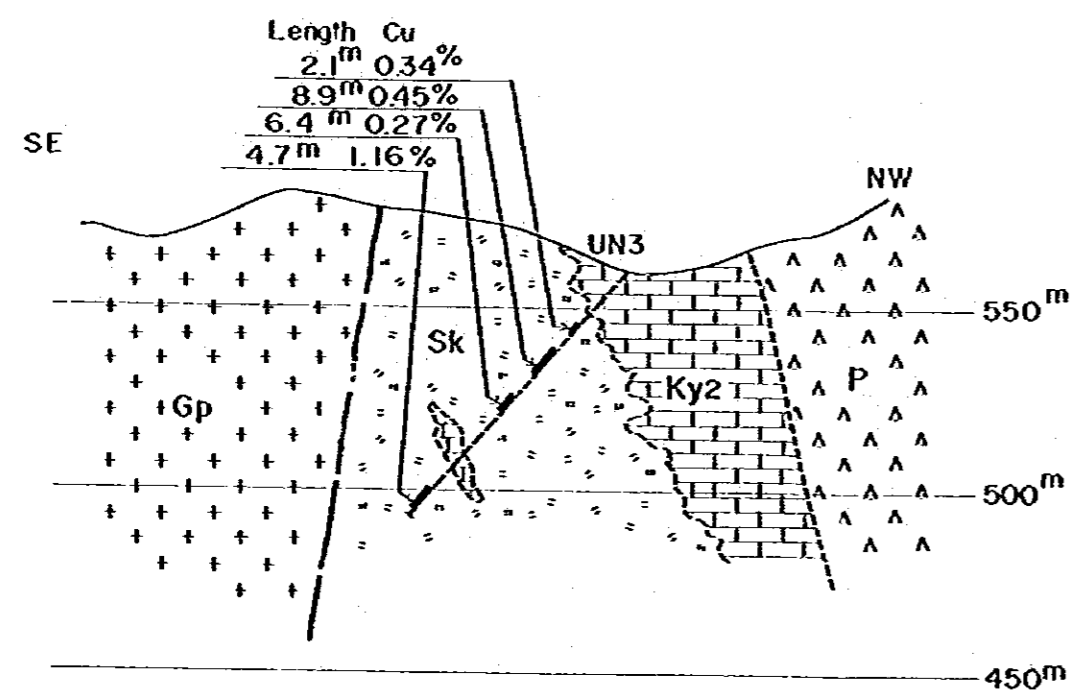
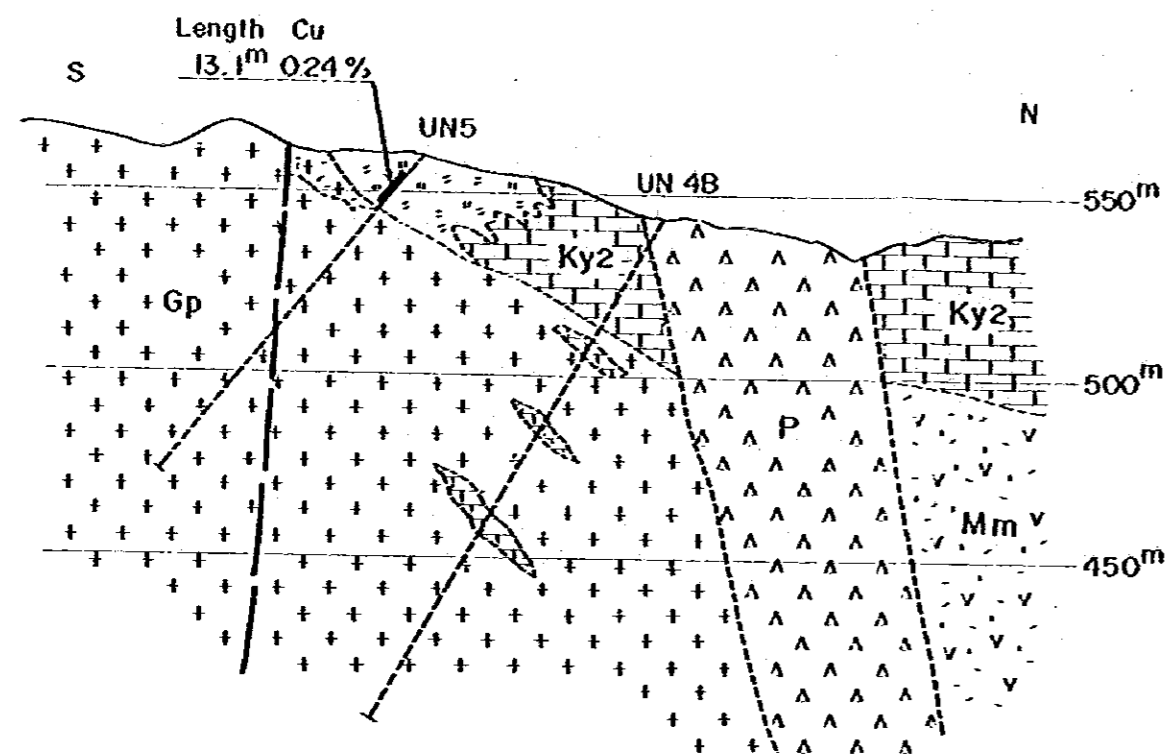


fault



mineral indication

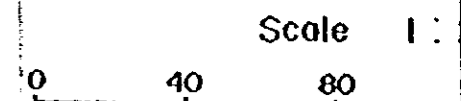


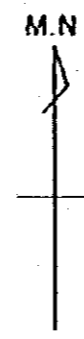
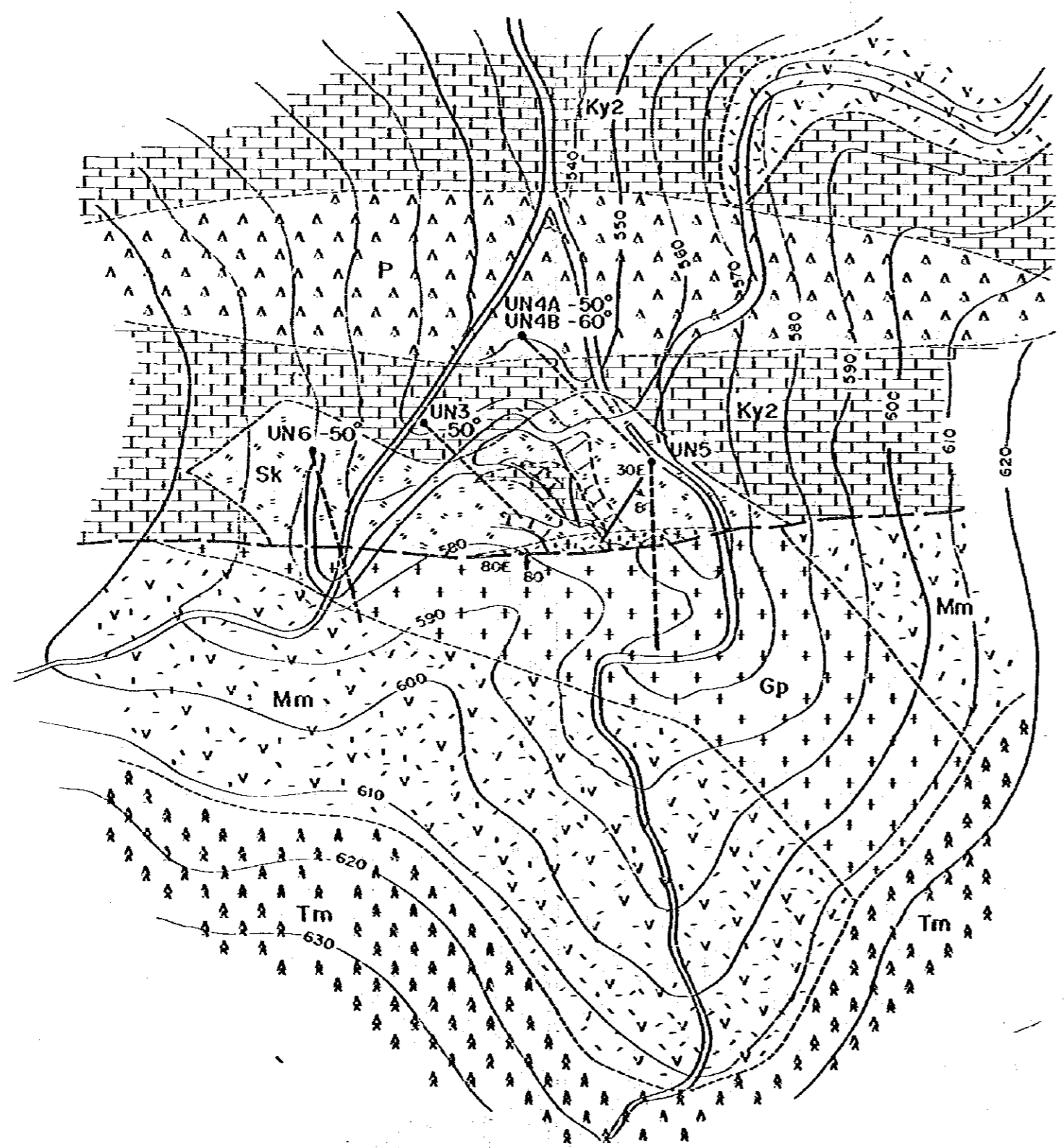


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VOL. 1
GEOLOGICAL OF
THE MACUTALO OUTCROP IN



METAL MINING AGENCY
JAPAN INTERNATIONAL COOPERATION
GOVERNMENT OF JAPAN
FEBRUARY 1971
prepared by METAL MINING AGENCY

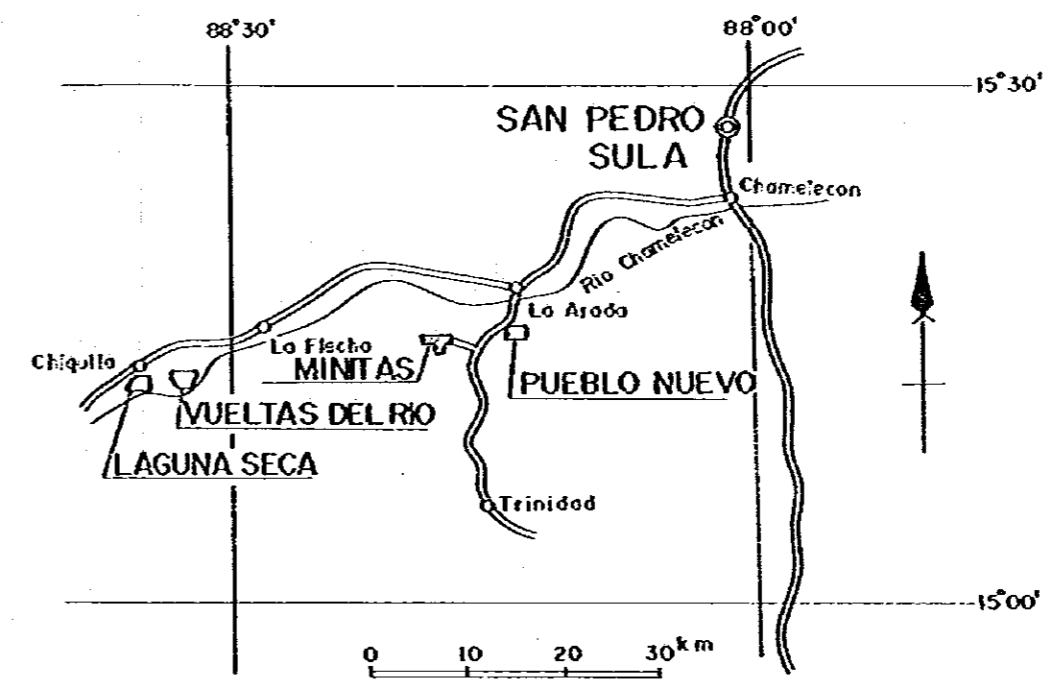




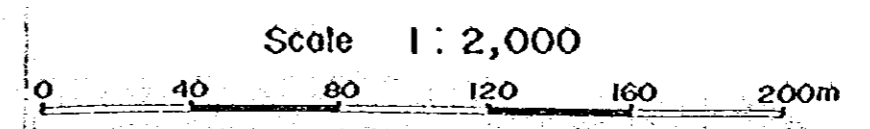
PL. III - I - 13

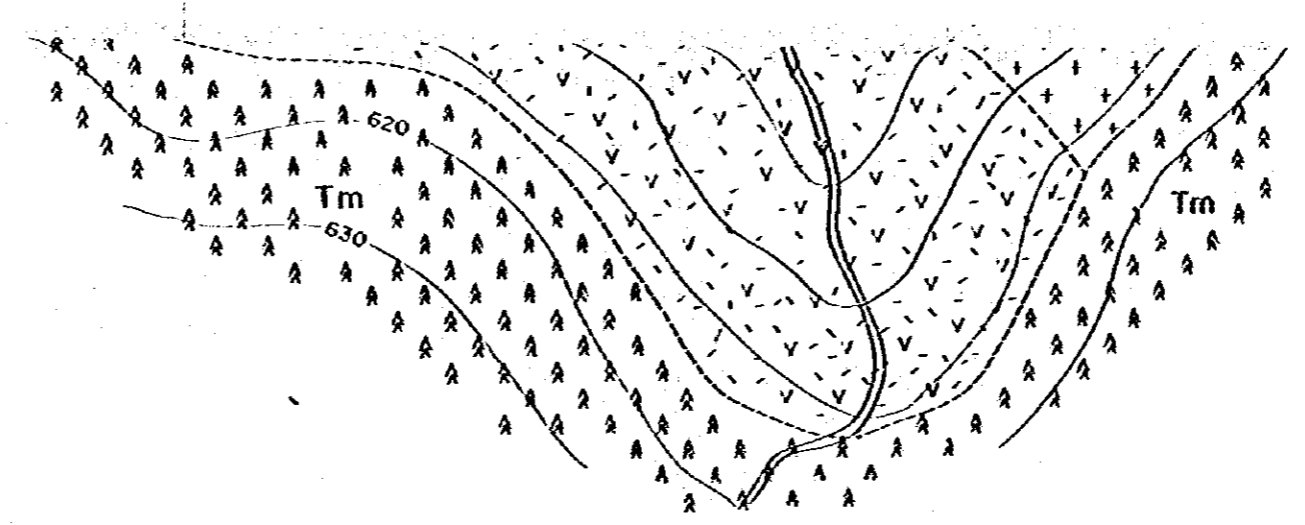
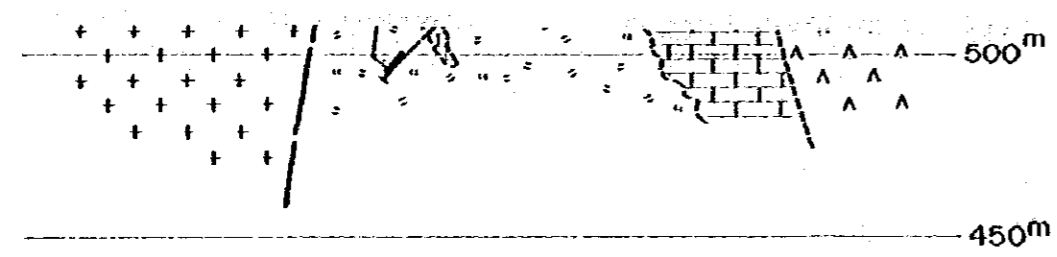
GEOLOGICAL SURVEY
OF
THE WESTERN AREA, REPUBLIC OF HONDURAS
VOL. 3

GEOLOGICAL SKETCH
OF
THE MACUTALO OUTCROP IN THE MINITAS SECTOR

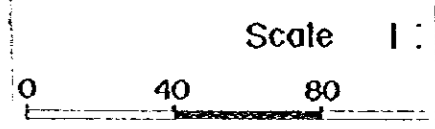


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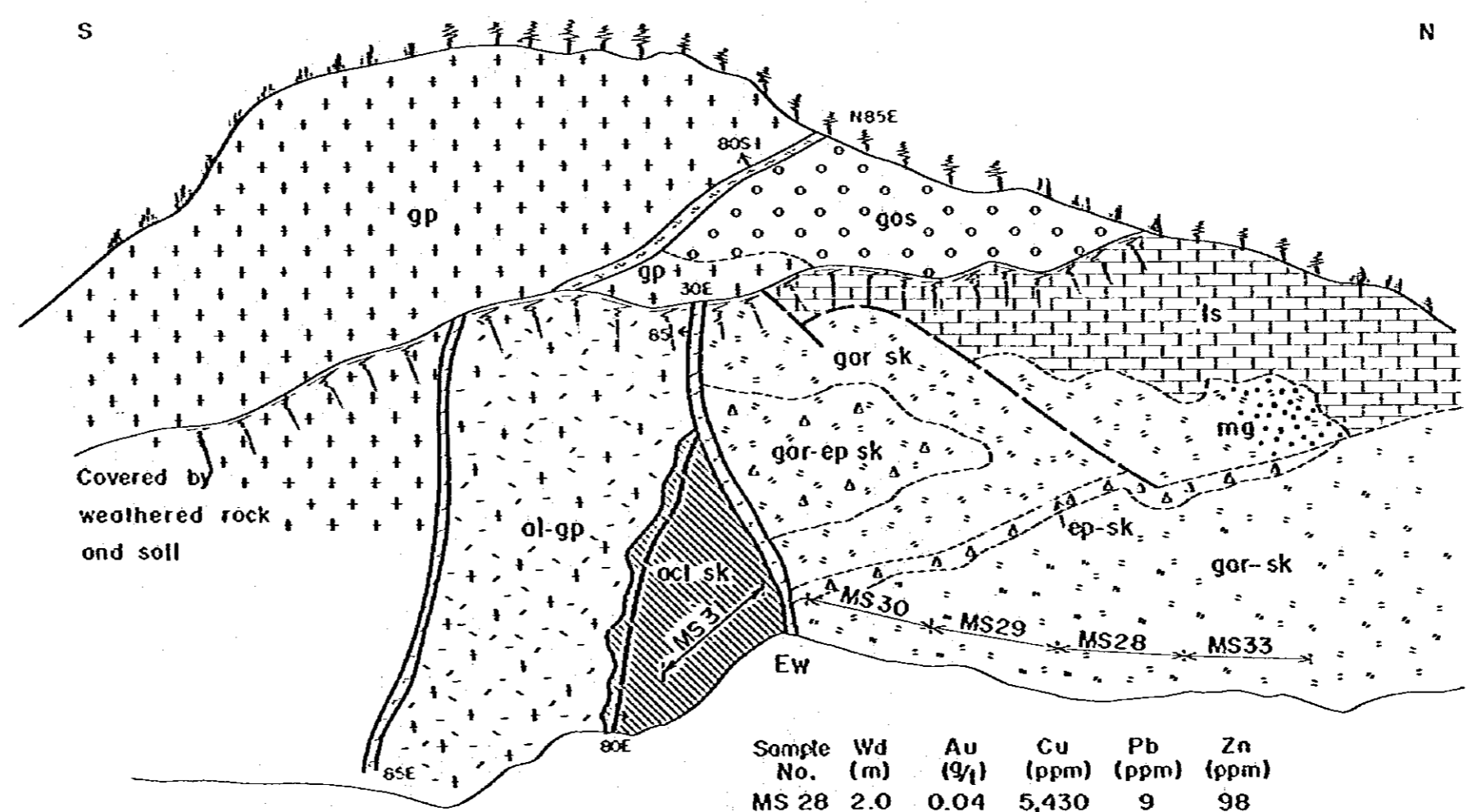
JAPAN INTERNATIONAL
GOVERNMENT
FEBRUARY
prepared by ME



Sketch of Macutalo Outcrop

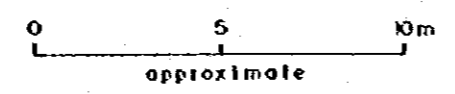
LEGEND

- ls limestone
- gp granodiorite porphyry
- ol-gp altered granodiorite porphyry brittly epidote-chlorite bearing part
- gor garnet skarn with magnetite
- gor-ep garnet-epidote skarn with quartz, magnetite
- ep epidote skarn
- mg magnetite
- act actinolite skarn, magnetite-chalcopyrite-bornite-pyrite
- gos gosson
- sheared zone

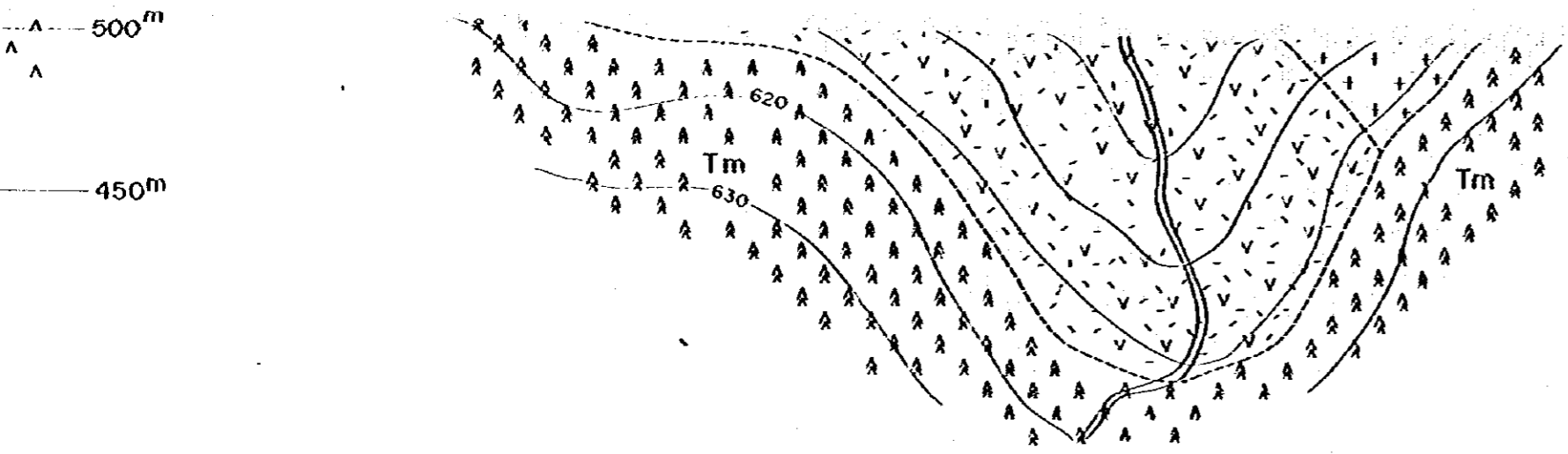


LEGEND

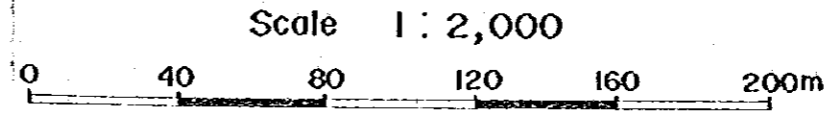
- Tm basalt
- Ky limestone
- Mm meloclastic & pyroclastic
- P porphyry
- Gp granodiorite
- ol-gp altered granodiorite
- Sk skarn
- fault
- UN3 DDH



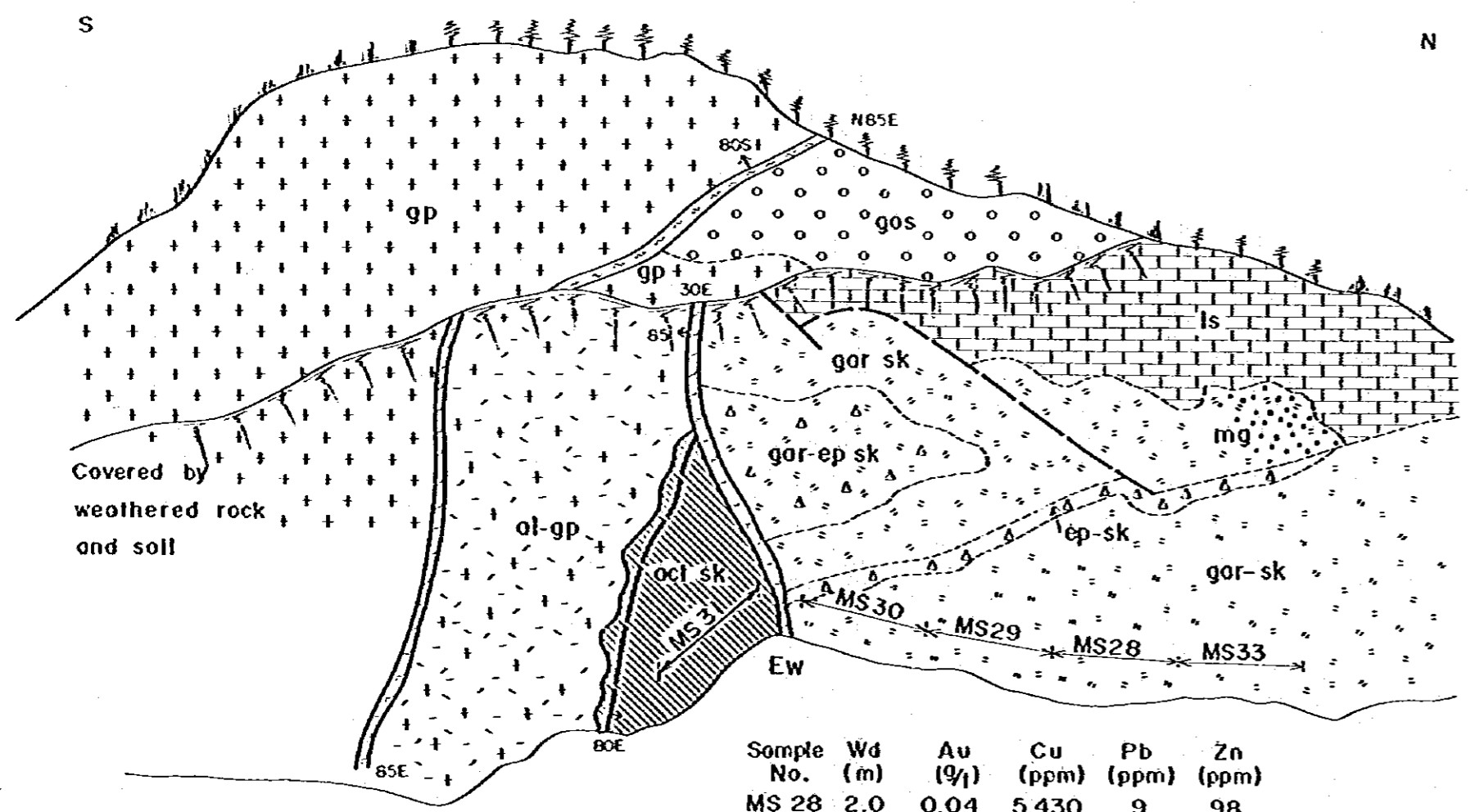
Sample No.	Wd (m)	Au (g/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)
MS 28	2.0	0.04	5,430	9	98
MS 29	3.0	<0.01	13,380	11	147
MS 30	3.0	0.10	260	15	420
MS 31	3.0	0.10	26,200	32	290
MS 33	3.0	0.10	5,620	12	117



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 FEBRUARY 1979
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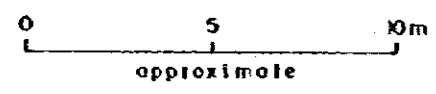
Sketch of Macutalo Outcrop



LEGEND

- Tm basalt, andesite
- Ky limestone
- Mm metaandesite, metaporphyrite & pyroclastics
- P porphyrite
- Gp granodiorite porphyry
- ol-gp altered granodiorite porphyry
- Sk skarn
- fault
- UN3 ODH by UNDP

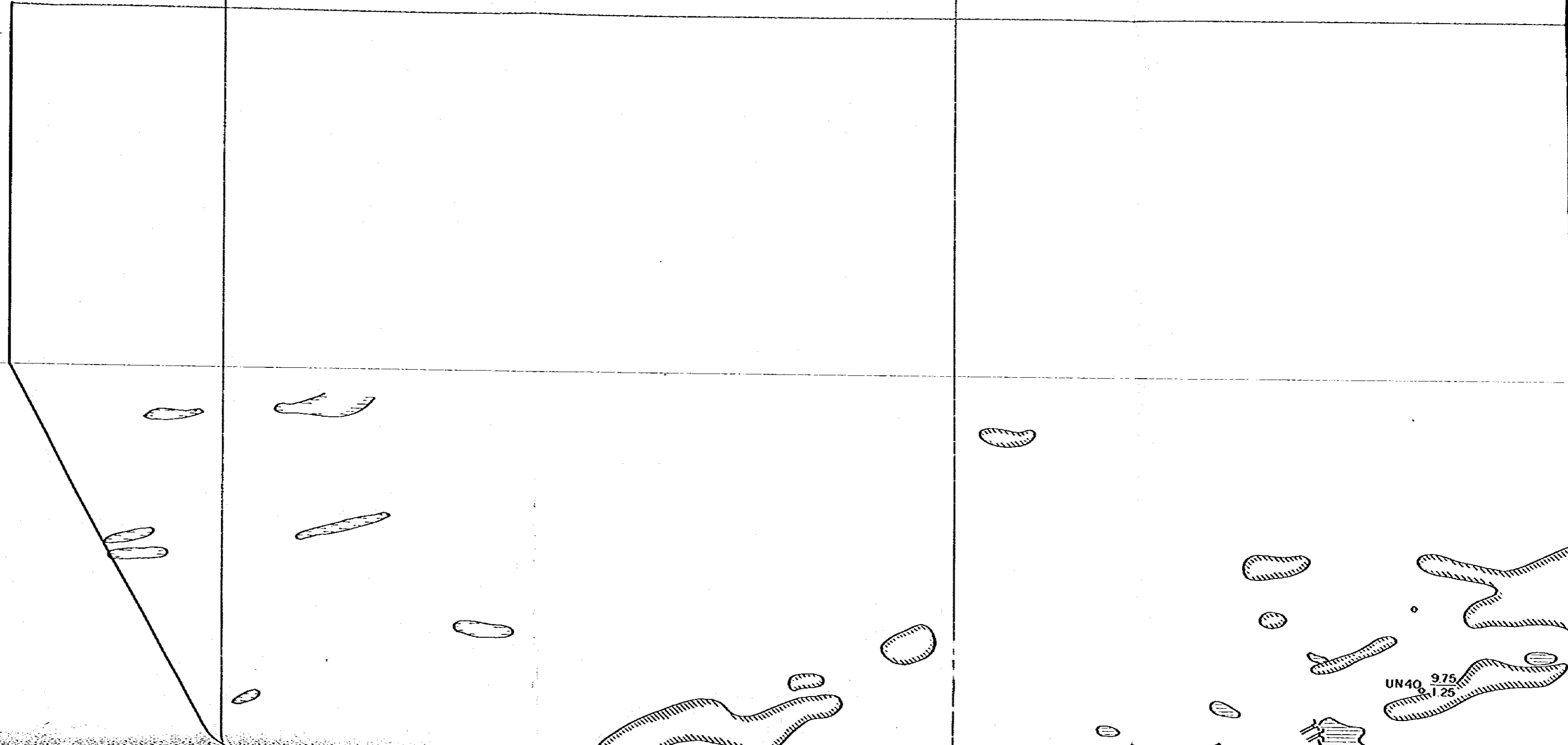
Sample No.	Wd (m)	Au (g/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)
MS 28	2.0	0.04	5,430	9	98
MS 29	3.0	<0.01	13,380	11	147
MS 30	3.0	0.10	260	15	420
MS 31	3.0	0.10	26,200	32	290
MS 33	3.0	0.10	5,620	12	117



332E

333E

1683N



UN40 9.75
0.125

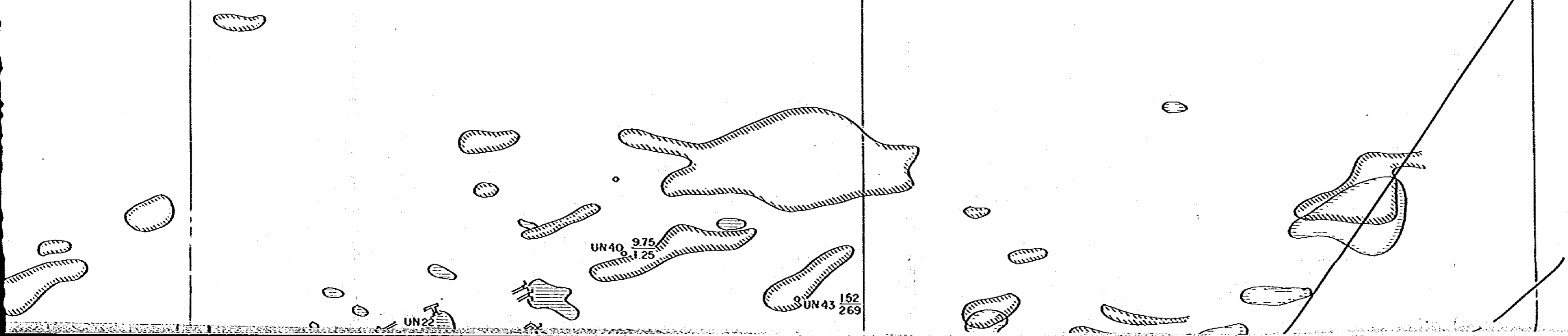
UN22

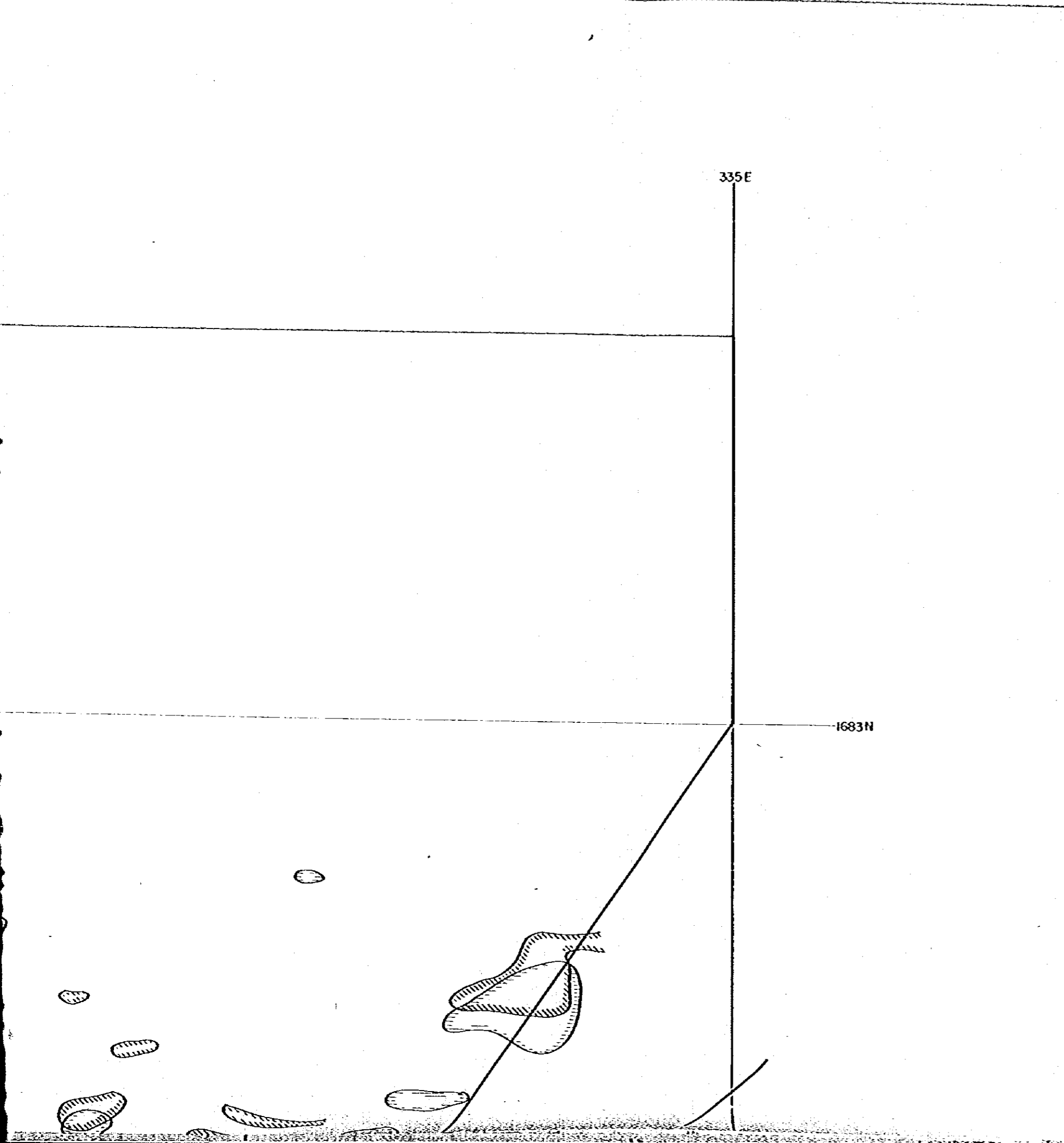
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335E

1683N

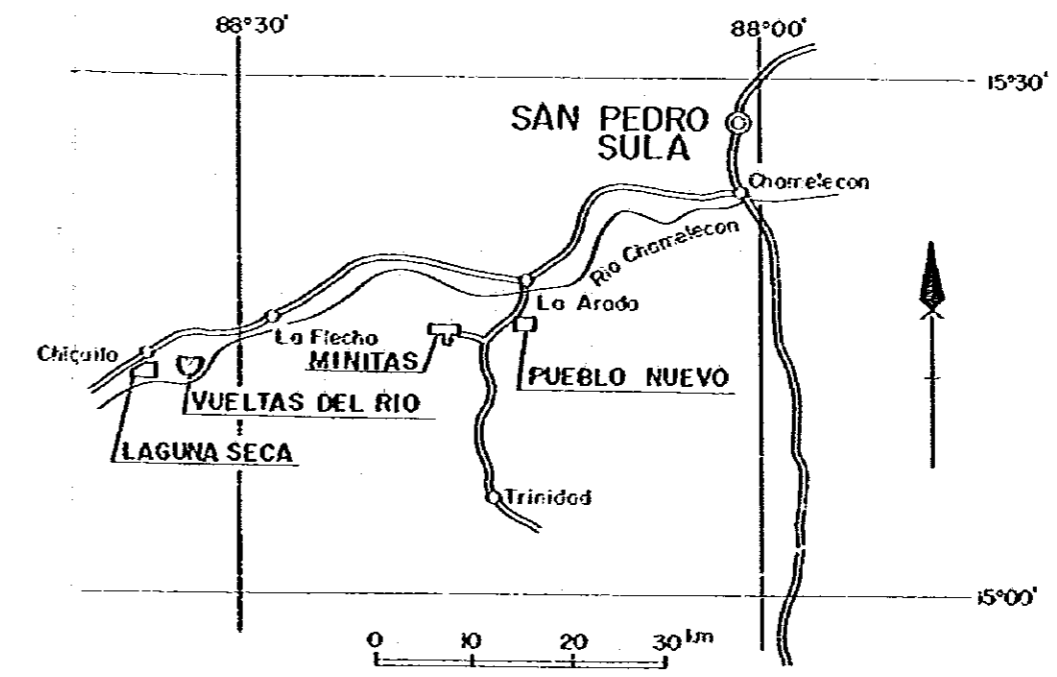




PL. III - I - 18

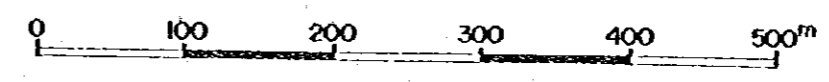
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GEOCHEMICAL MAP BY UNDP
IN THE VUELTAS DEL RIO SECTOR



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FEBRUARY 1979
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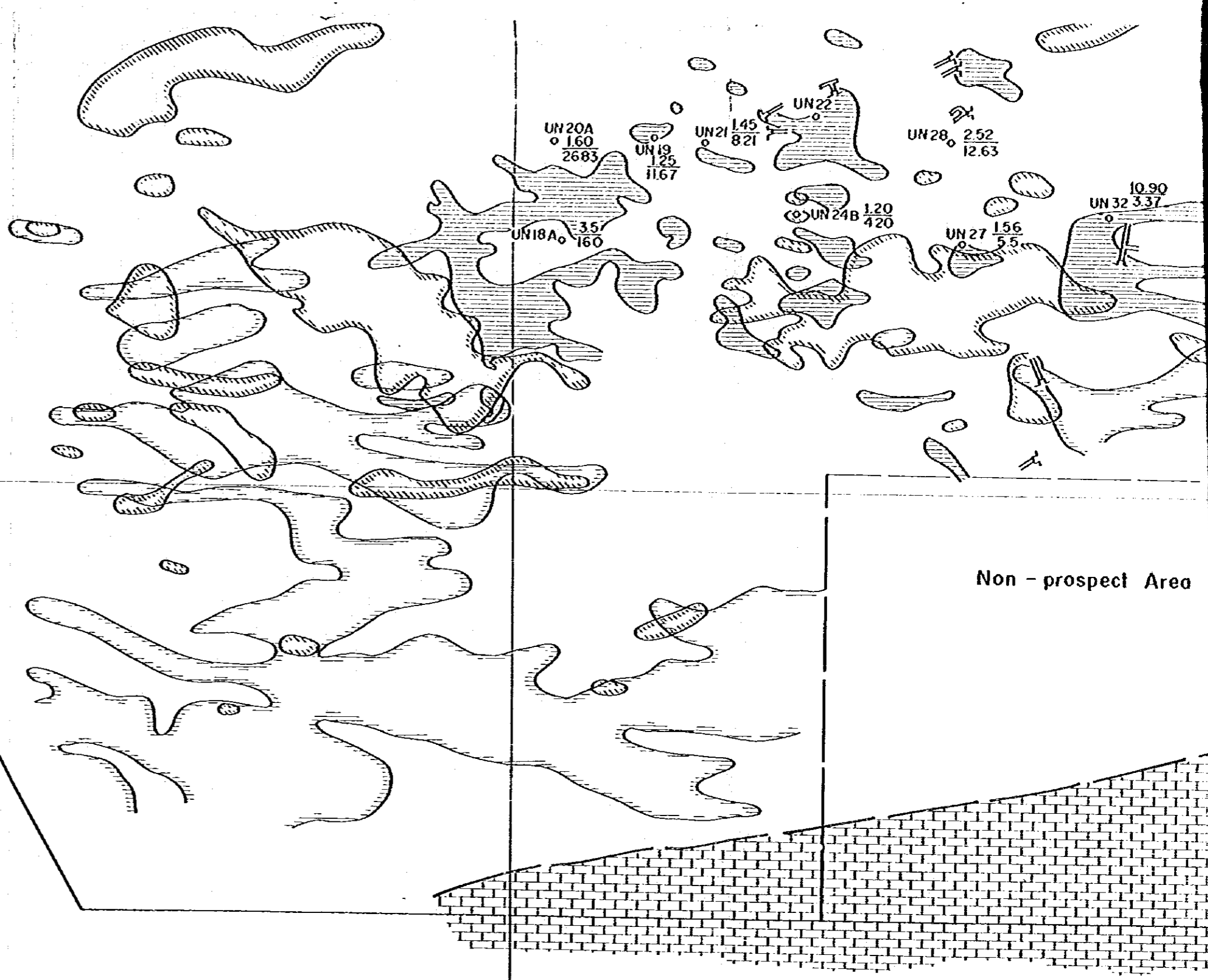
Scale 1 : 5,000

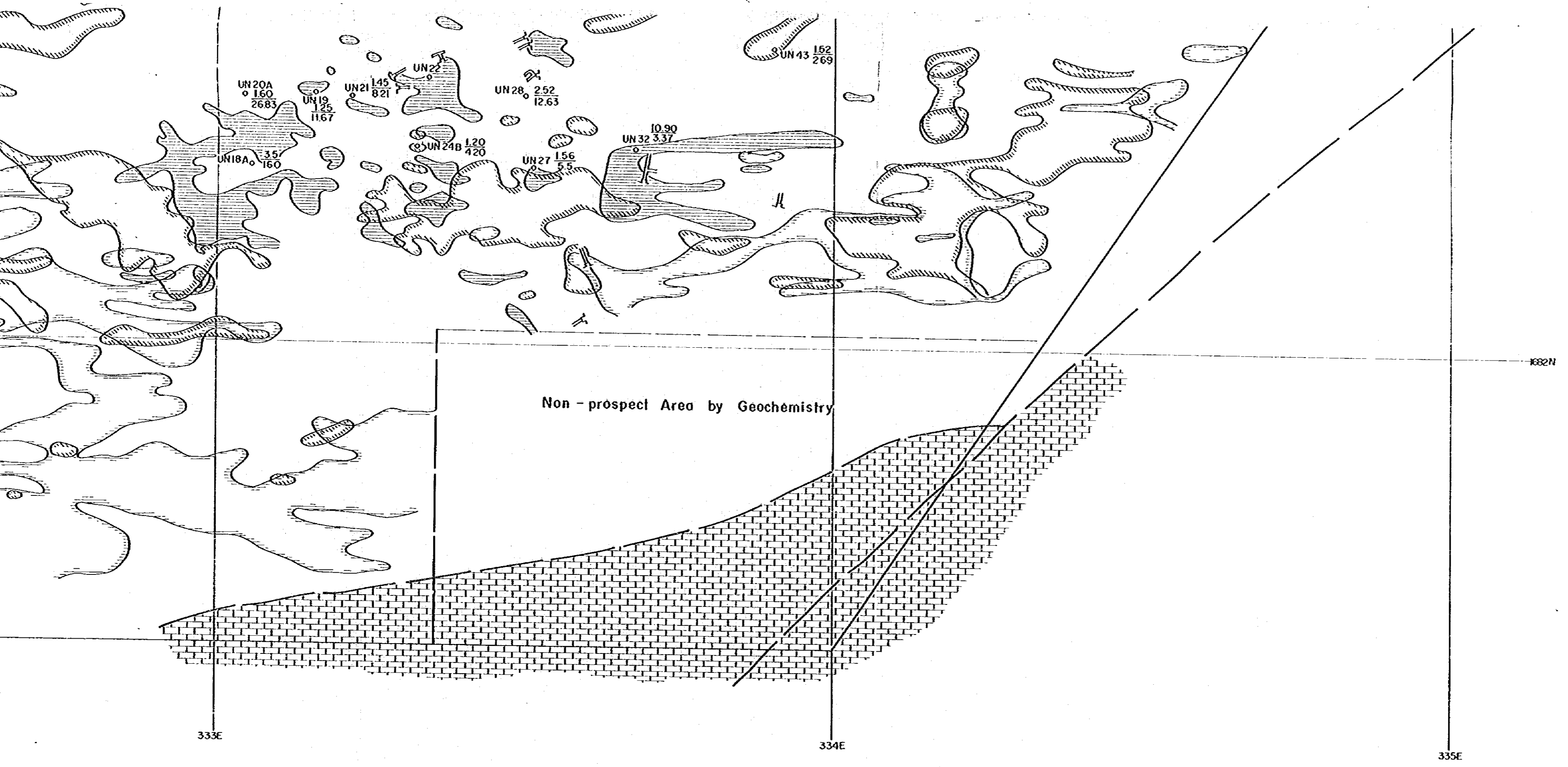


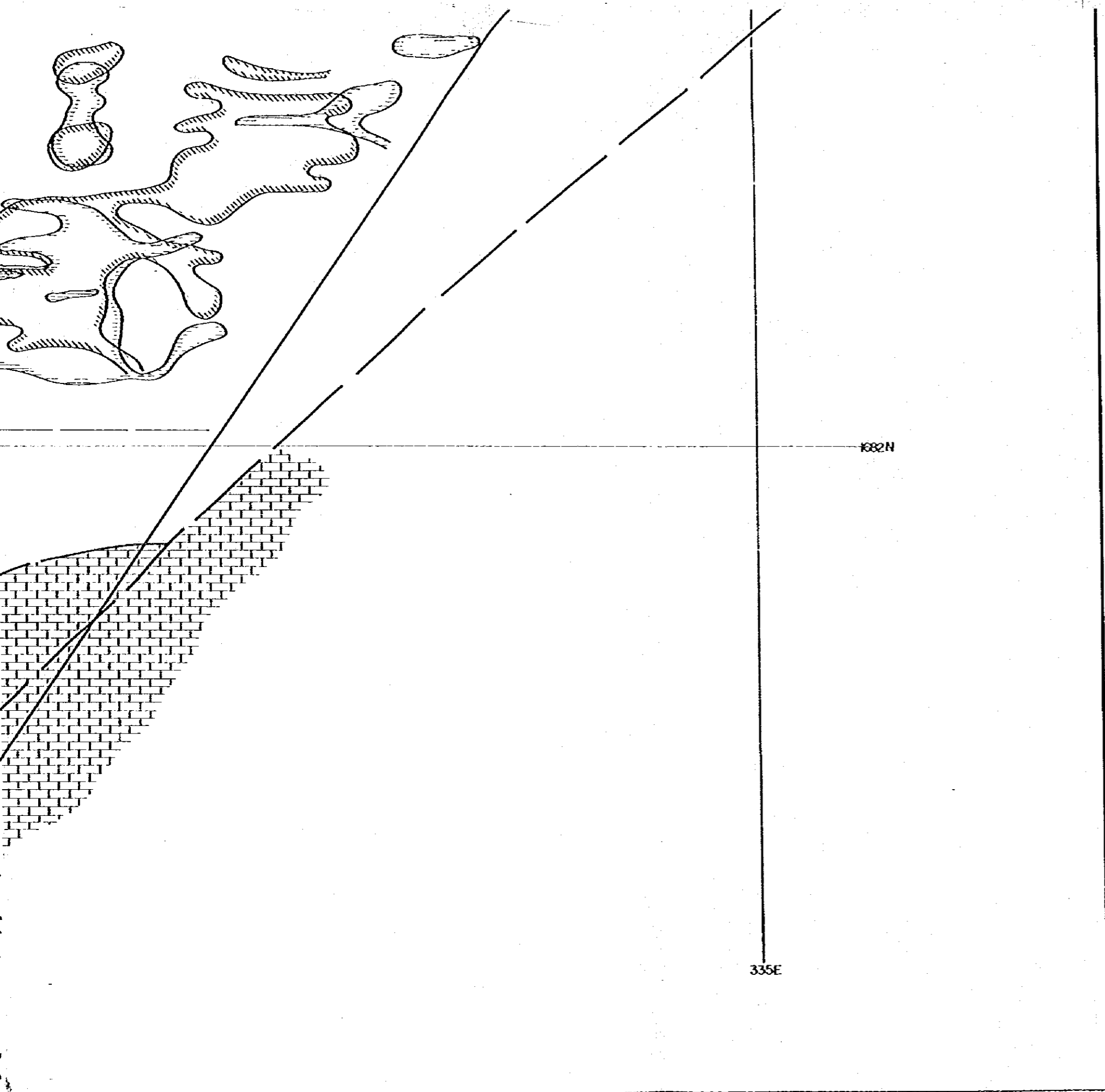
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332E

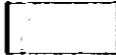
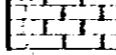
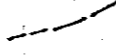



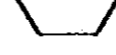



333E







LEGEND

-  Vuellos del Rio Formation
 -  Atimo Formation
 -  Fault
 -  Adit
 -  UNDP
 -  DDH by UNDP
 -  Surveyed sector
 -  Au > 1.01 ppm
 -  Cu > 251 ppm
 -  Zn > 501 ppm
- 2.45 --- Au (g/t)
 1.85 --- Width (m)

