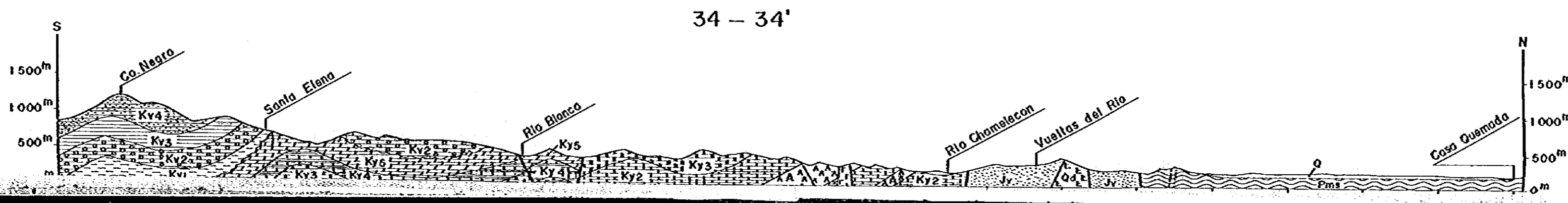
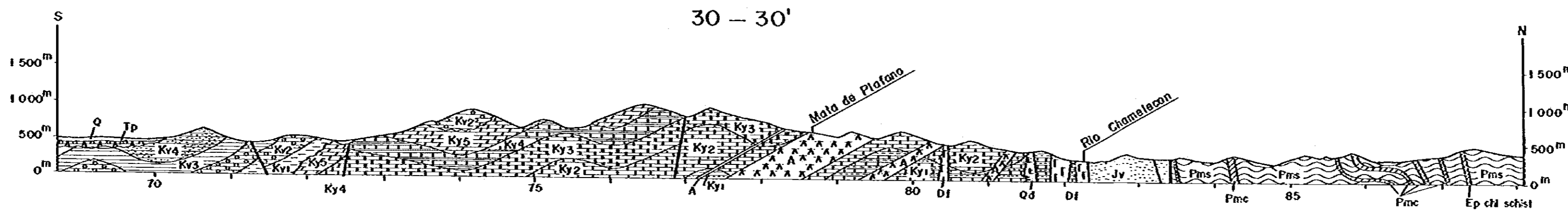
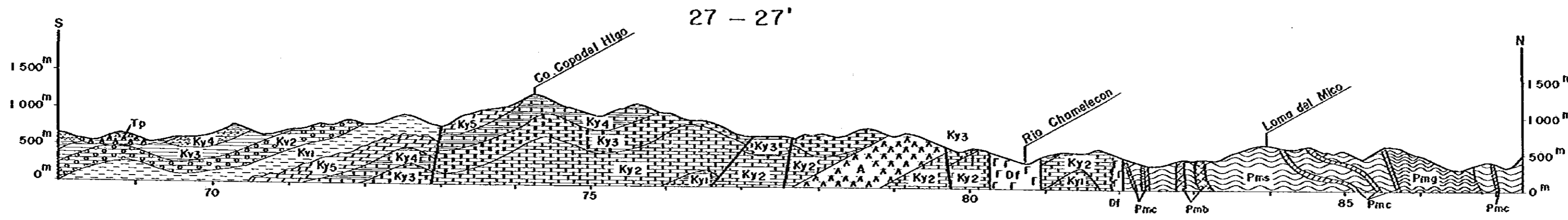
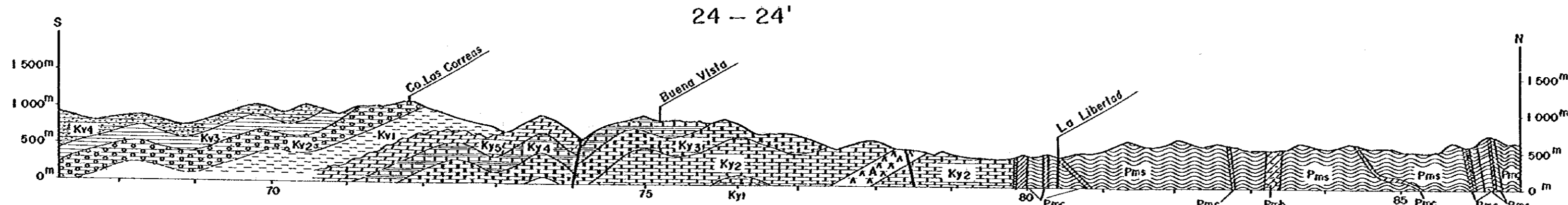


Chamelecon Area



THE WEST
GEO
GE
(V

CHIQUIRE

15° 14' 20"
88° 41' 12"

15° 04' 27"
88° 38' 33"

AREA C
(Vuelos

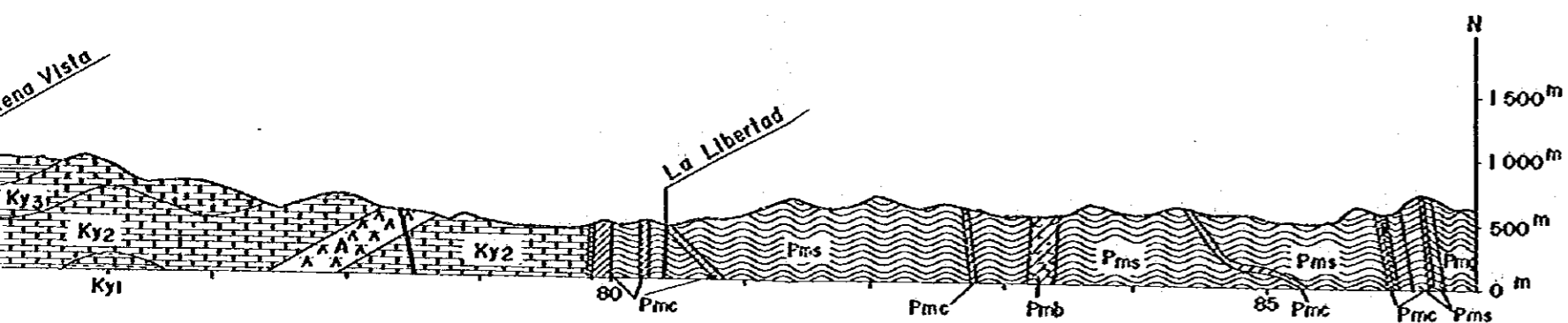
AREA C
(Minios

METAL
JAPAN
GOVERN

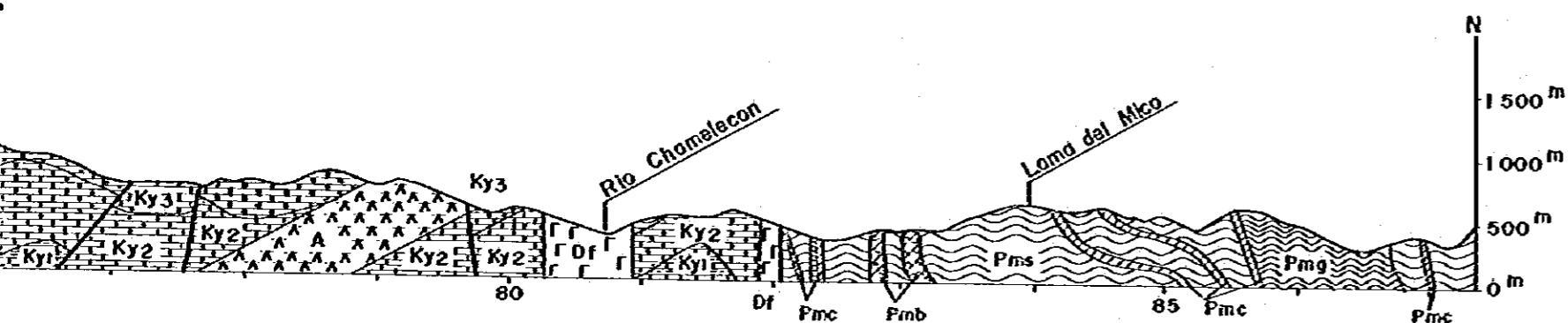
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con Area

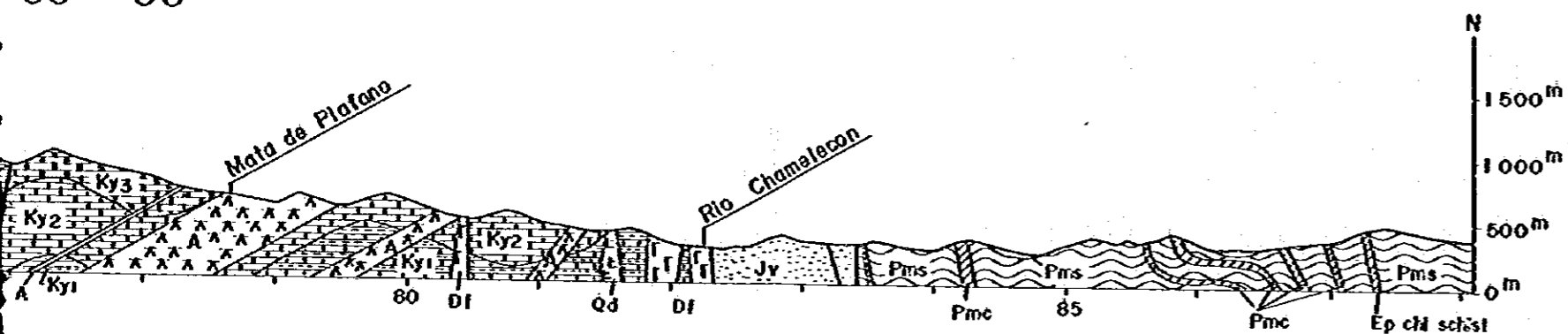
24 - 24'



27 - 27'



30 - 30'



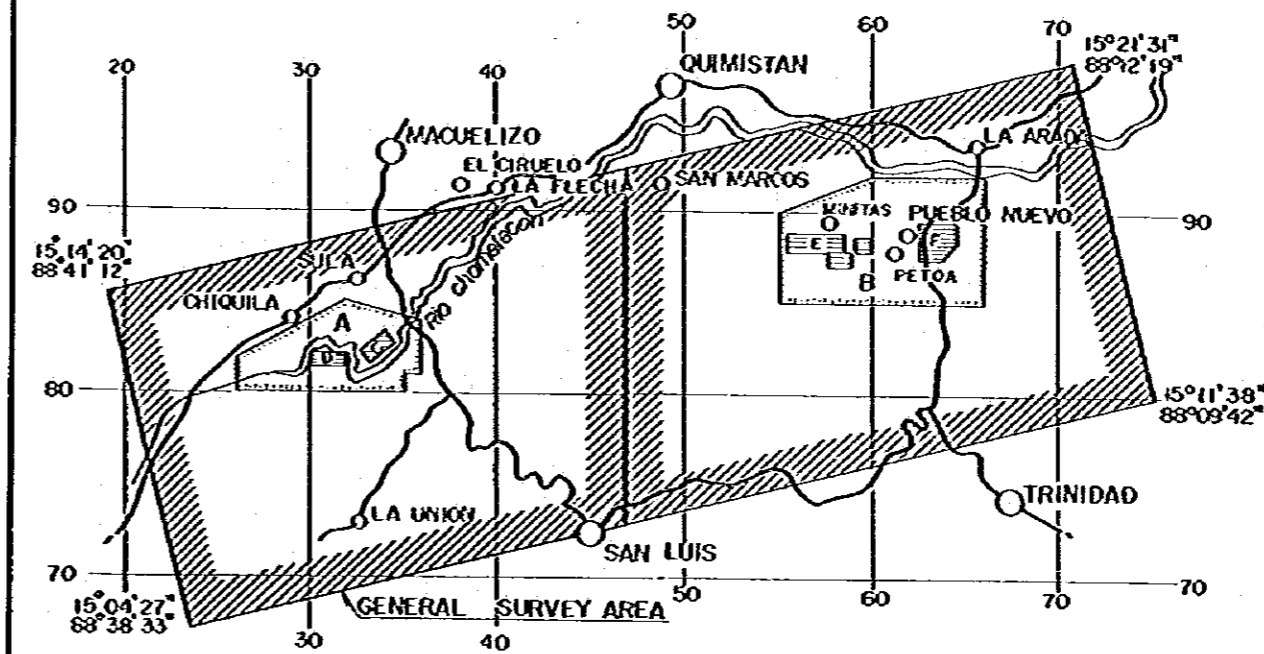
34 - 34'



PL. 1-3

GEOLOGICAL SURVEY
OF
THE WESTERN AREA, REPUBLIC OF HONDURAS
PHASE I

GEOLOGICAL PROFILE OF THE
GENERAL SURVEYED AREA
(WESTERN AND EASTERN PART)



- | | |
|--|---|
| AREA OF SEMIDETAILED SURVEY (Chamelecon Area) | AREA OF SEMIDETAILED SURVEY (Petoa Area) |
| AREA OF DETAILED SURVEY (Vueltas del Rio Sector) | AREA OF DETAILED SURVEY (Zapotot II Sector) |
| AREA OF DETAILED SURVEY (Minitas Sector) | AREA OF DETAILED SURVEY (Pueblo Nuevo Sector) |

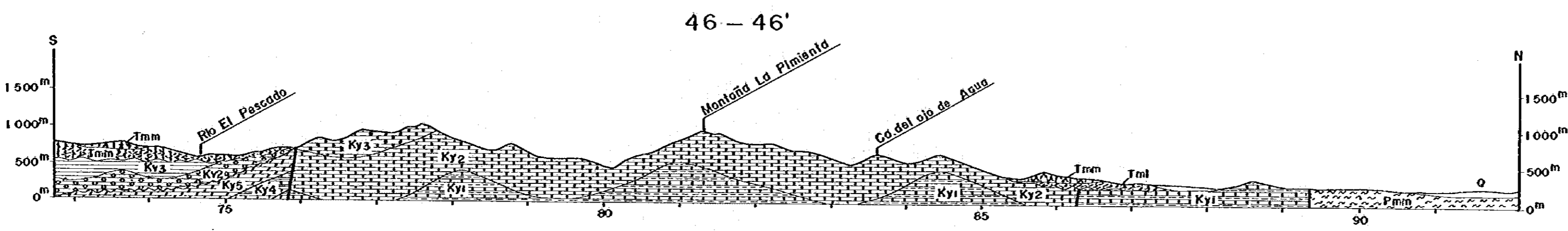
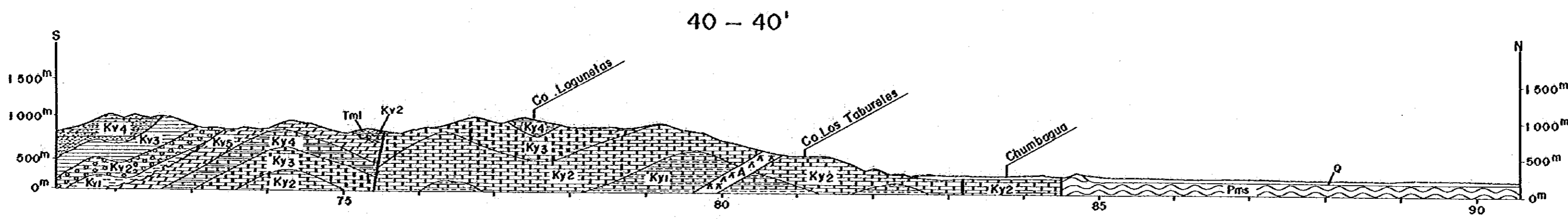
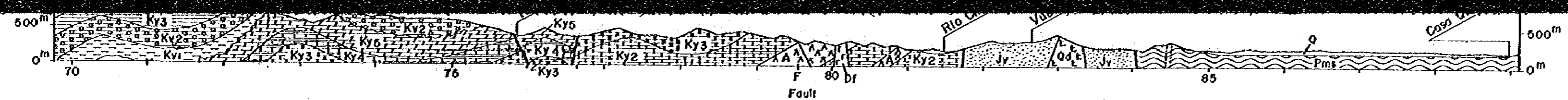
METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
GOVERNMENT OF JAPAN

JANUARY 1978

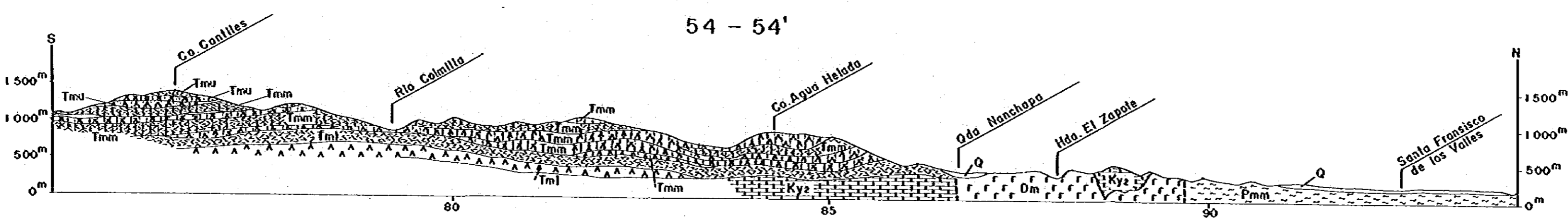
prepared by MESCO, INC.

Scale 1 : 50,000

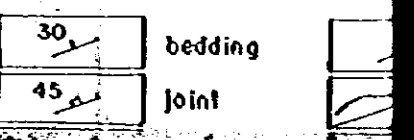




Petoa Area

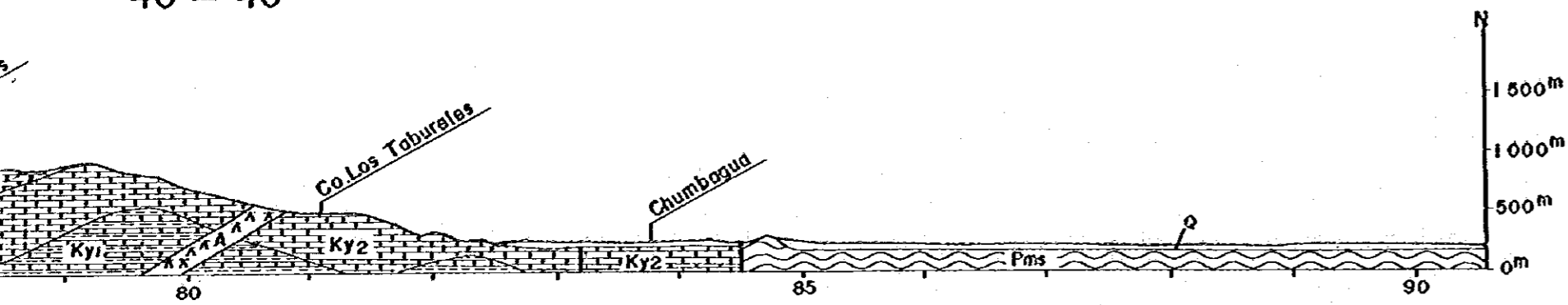


Geological age		Formation	
CENOZOIC	Quaternary	Alluvium	
	Tertiary	Padre Miguel	
		Matagalpa F.	
MESOZOIC	Cretaceous	Upper	Valle de Angeles
		Lower	Yojoc Group
			Guare F.
			Atimo F.
			Corraronos
	Jurassic	Vueltas del Rio	
PALEOZOIC		Chiquila-La Arc Group	
		Intrusive rocks	

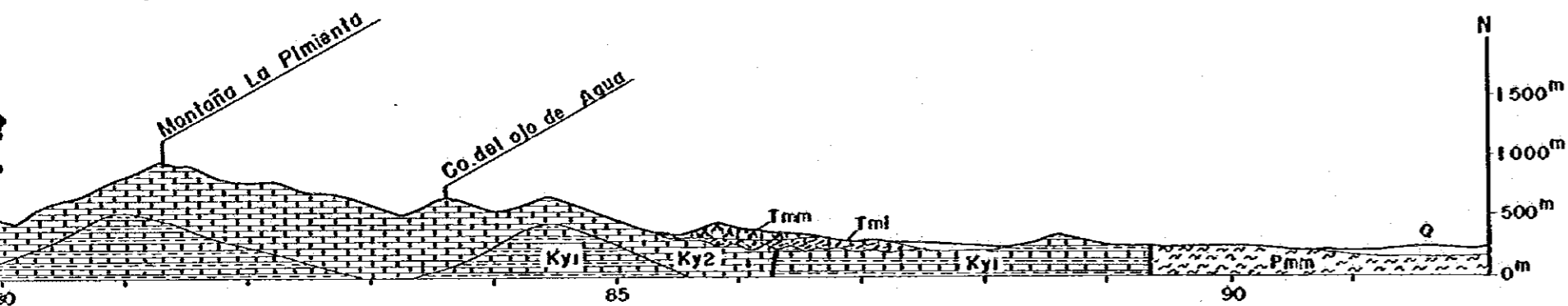




40 - 40'

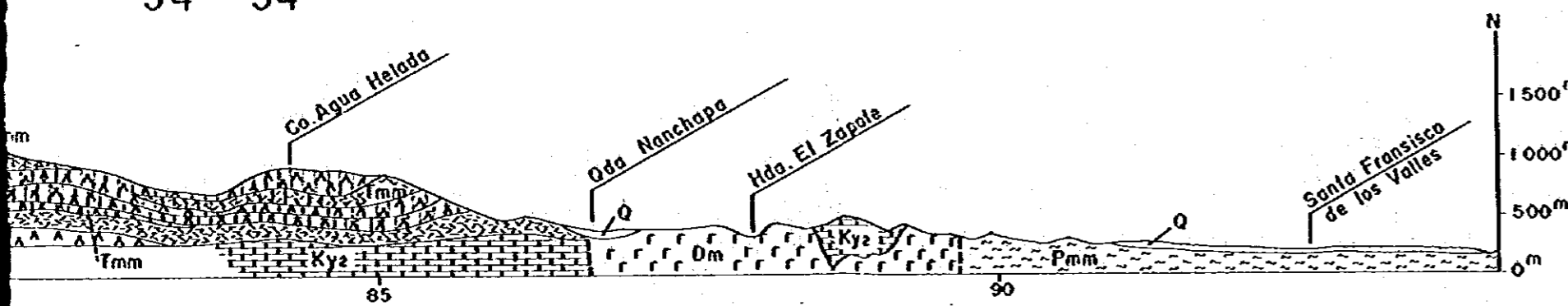


46 - 46'

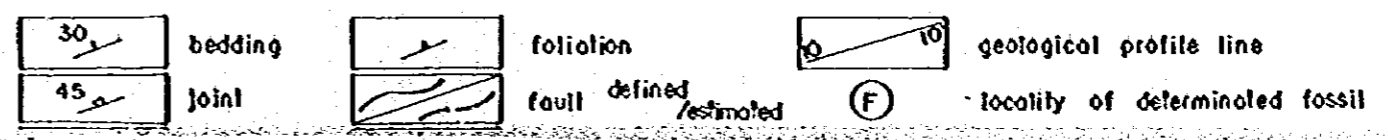


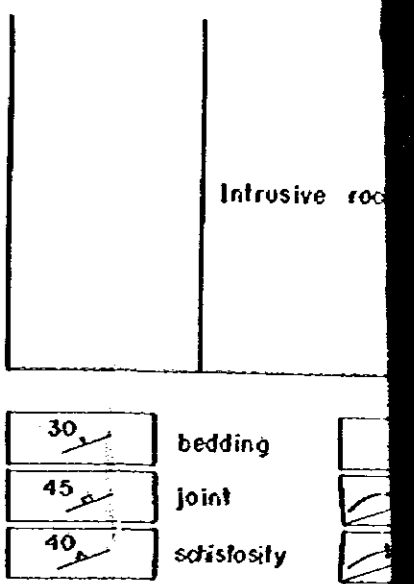
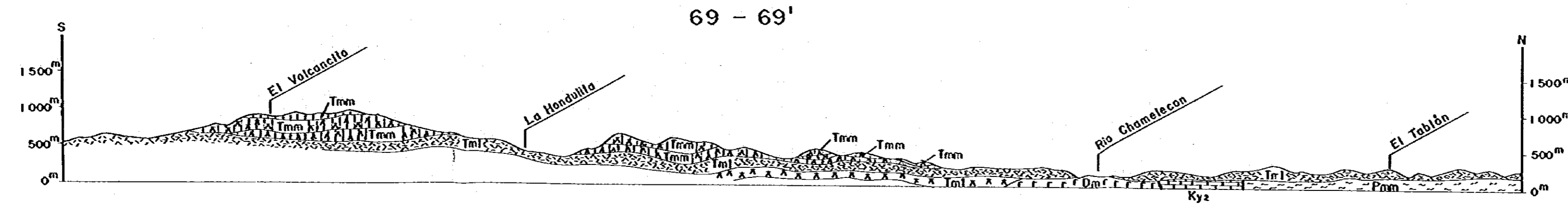
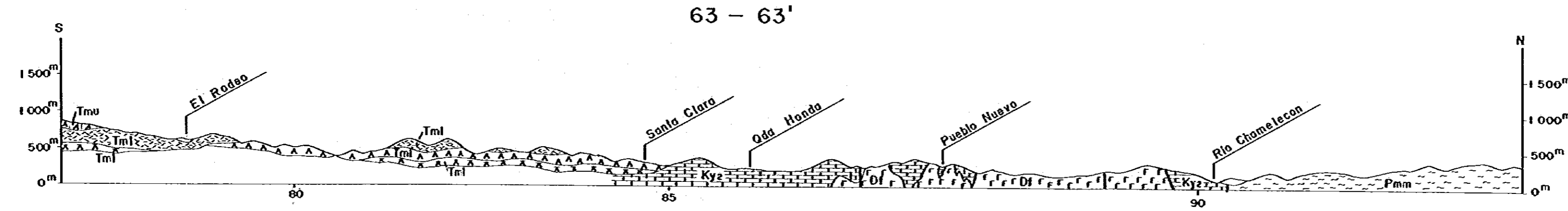
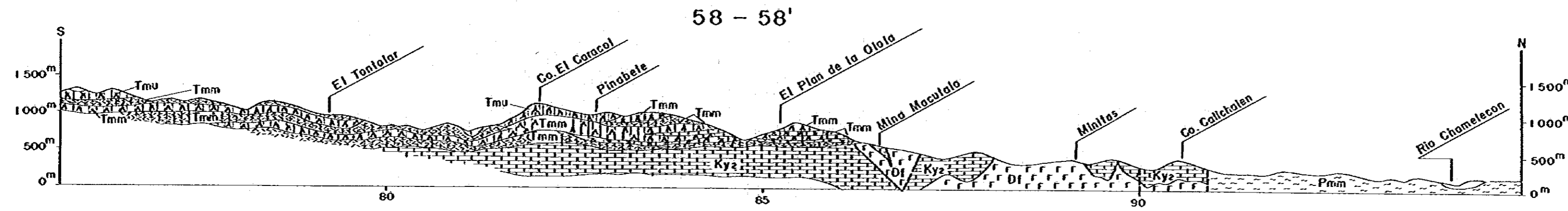
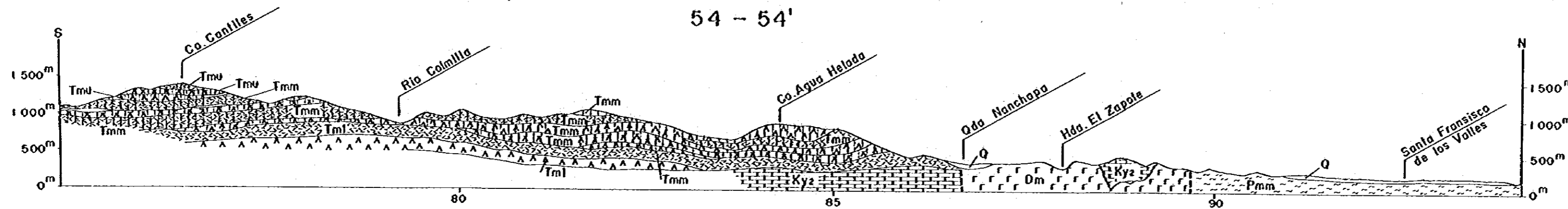
Petoa Area

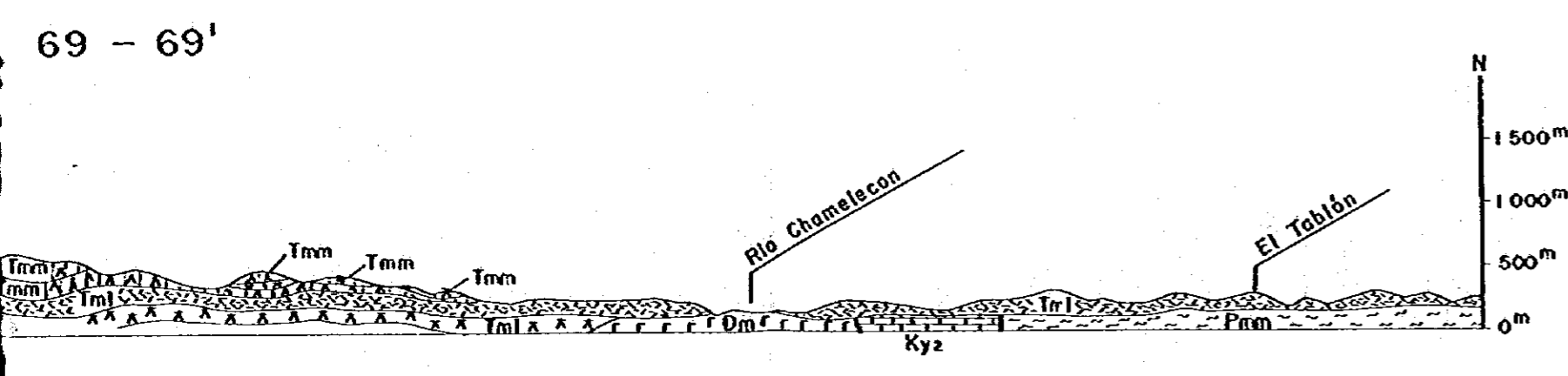
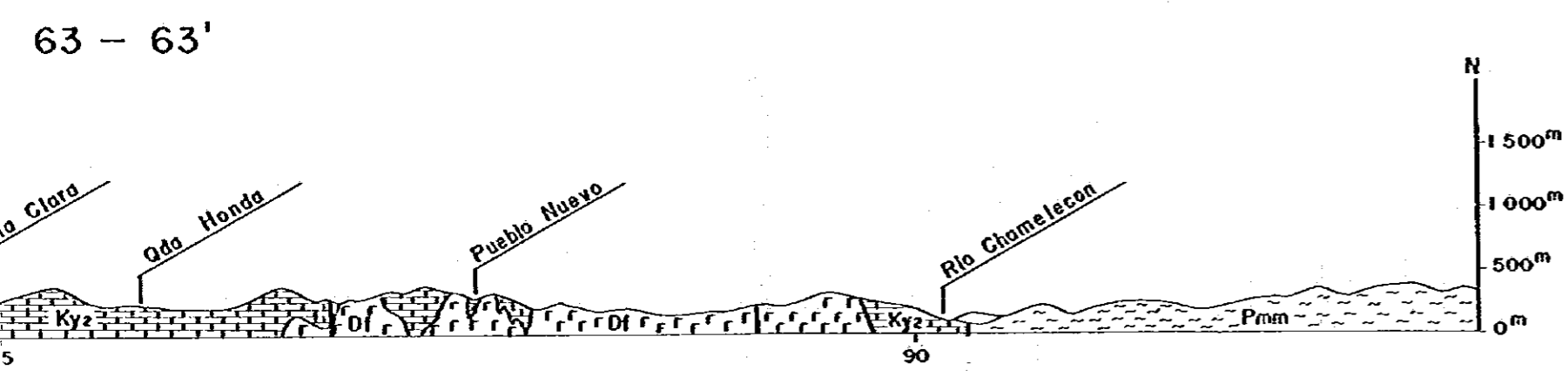
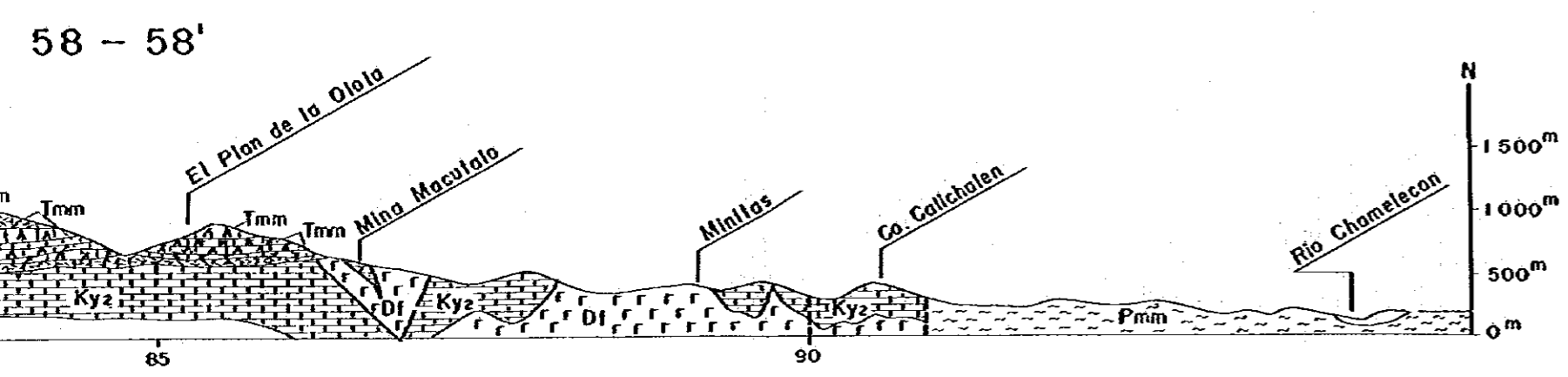
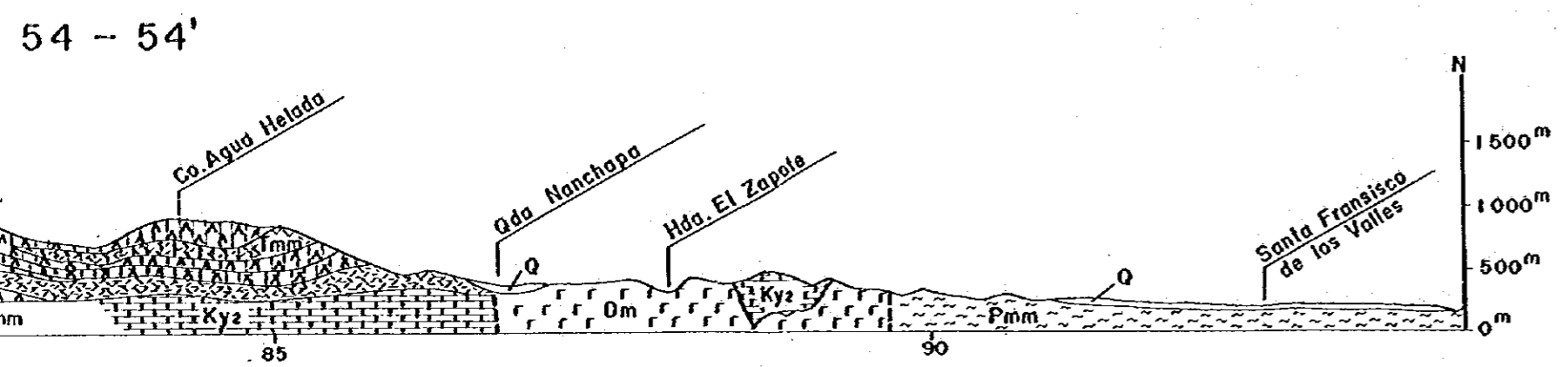
54 - 54'



Geological age	Formation	Stratigraphical		Lithology		
		Mark	Symbol			
CENOZOIC	Quaternary	Alluvium		Q	gravel, sand, clay	
	Tertiary	Padre Miguel F.		Tp	andesite, sedimentary rocks	
Malagatpo F.			Tm	rhyolite pyroclastic rocks (lower, middle, upper) andesite (lower, middle, upper) basalt (lower, middle, upper)		
MESOZOIC	Upper Cretaceous	Valle de Angeles F.		Kv4	shale, sandstone, limestone	
				Kv3	shale	
				Kv2	limestone, conglomerate	
				Kv1	sandstone, shale, limestone	
	Lower Cretaceous	Yojoa Group	Guare F.		Ky5	banded limestone, shale
					Ky4	shale, banded limestone
Lower Cretaceous	Yojoa Group	Alimo F.		Ky3	banded limestone, shale, minor sandstone	
				Ky2	massive limestone, minor shale	
Lower Cretaceous	Yojoa Group	Cofarronas F.		Ky1	shale, massive & banded limestone	
Jurassic	Vueltas del Rio F.		Jv	shale, meta volcanics, pyroclastics, phyllite, diabase		
PALEOZOIC	Chiquita-LoArodo Group		Pms	sericite schist (predominant)		
			Pmg	sericite-graphite schist (predominant)		
			Pme	epidote-chlorite schist		
			Pmc	calcereous schist, crystalline limestone		
			Pmb	biotite-hornblende schist		
			Pmm	biotite-muscovite schist, gneiss		
	Intrusive rocks		G	granite		
			Gd	granodiorite		
			Dm	diorite (medium-grained), meta volcanics, pyroclastics		
			Df	diorite (fine-grained)		
			A	andesite		
			D	diabase (dolerite)		
			Qd	quartz-diorite porphyry		

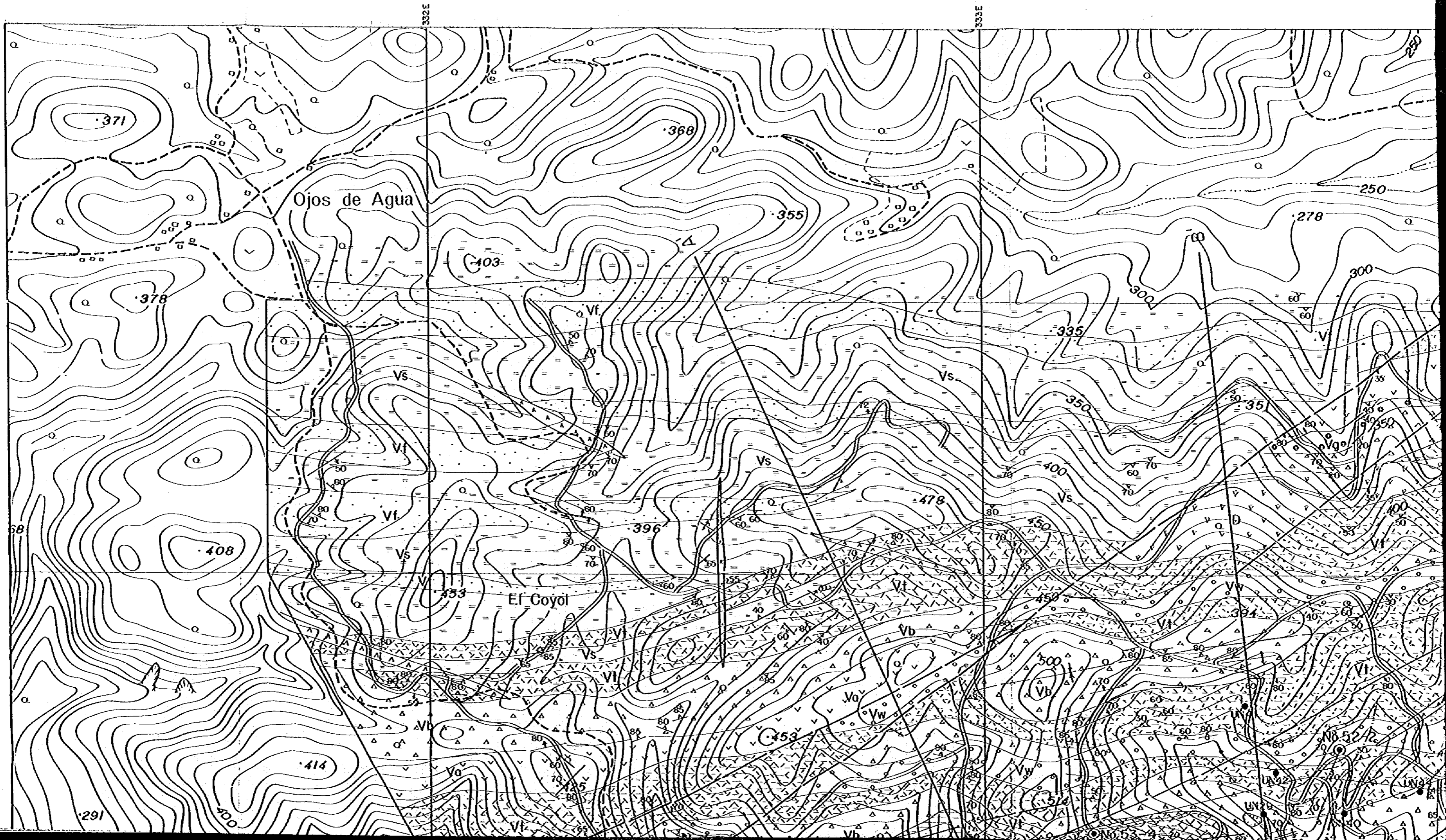


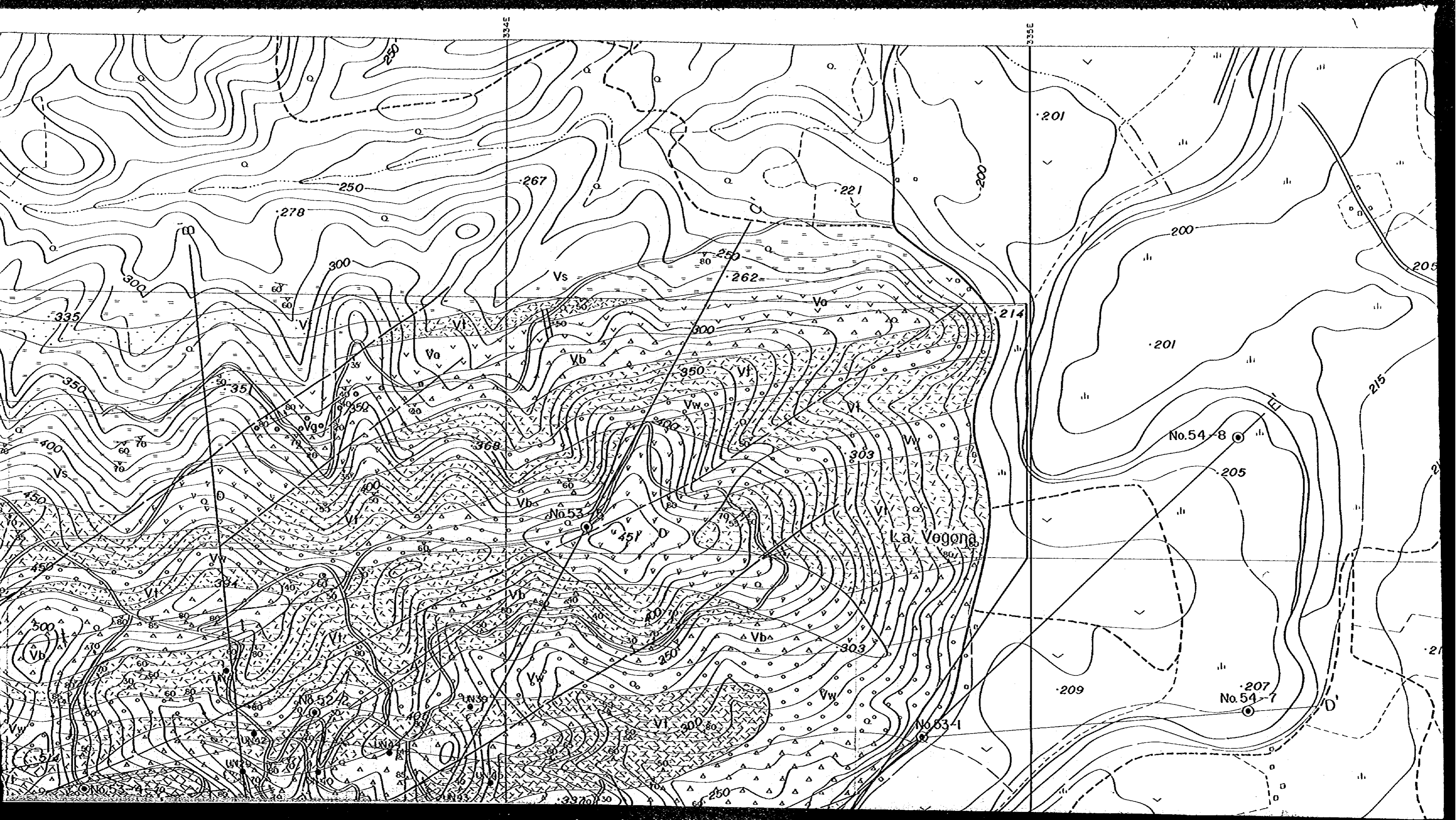


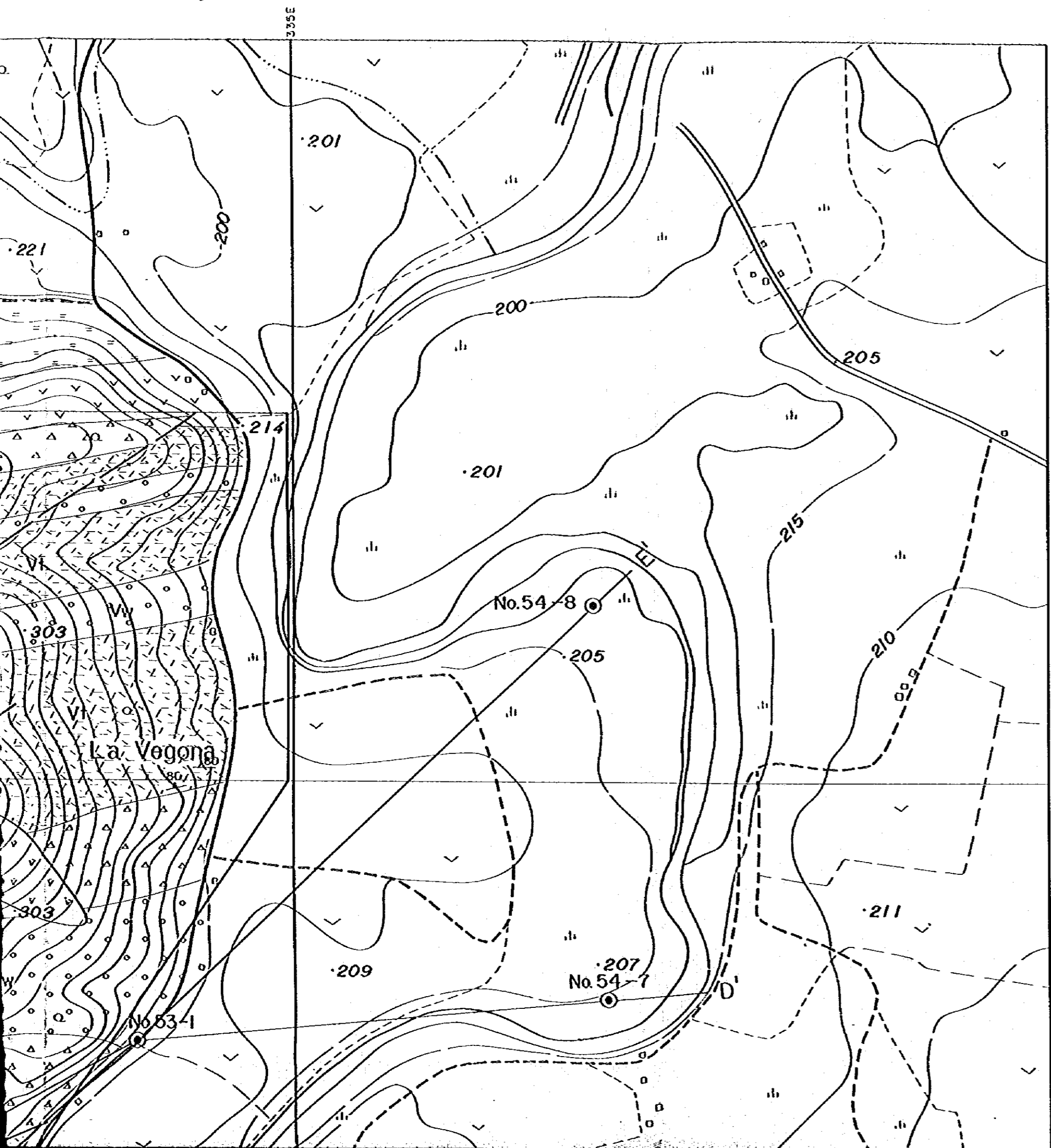


Intrusive rocks		Gd	granodiorite
		Dm	diorite (medium-grained), meta volcanic, pyroclastics
		Df	diorite (fine-grained)
		A	andesite
		D	diabase (dolerite)
		Qd	quartz-diorite porphyry

	bedding		foliation		geological profile line
	joint		fault defined		locality of determined fossil
	schistosity		fault estimated		locality of age determination sample
			anticlinal axis		
			synclinal axis		



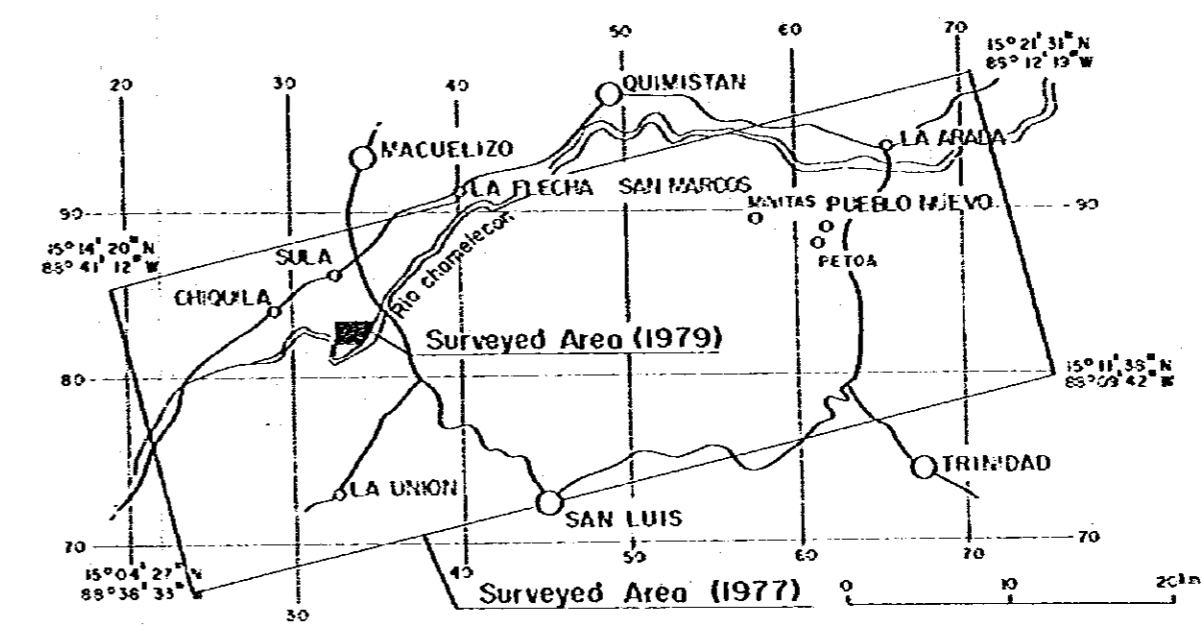




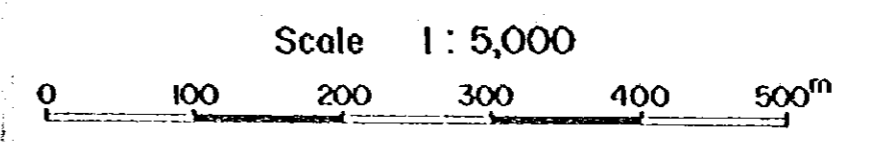
PL. III-1-1

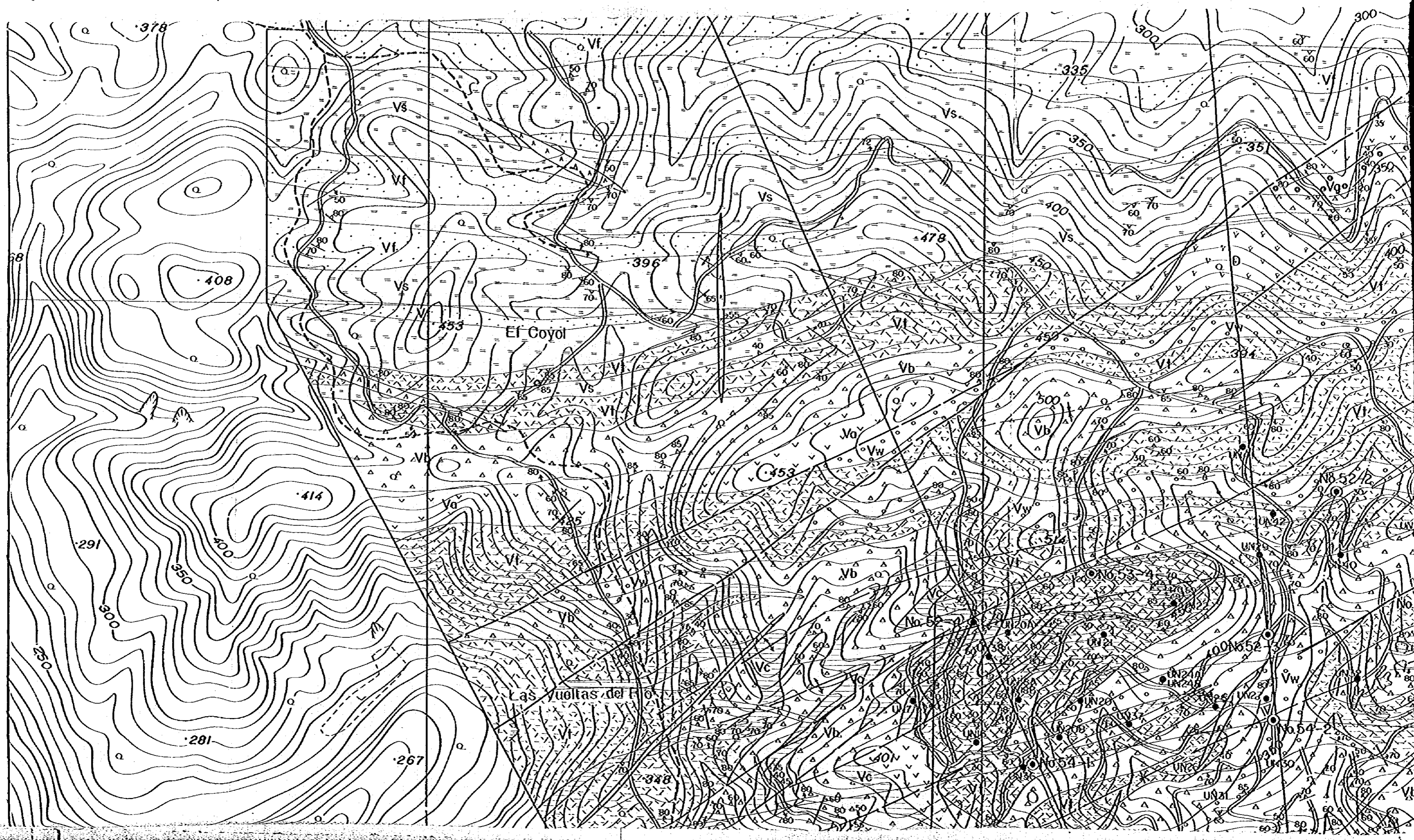
GEOLOGICAL SURVEY
OF
THE WESTERN AREA REPUBLIC OF HONDURAS
VOL. 4

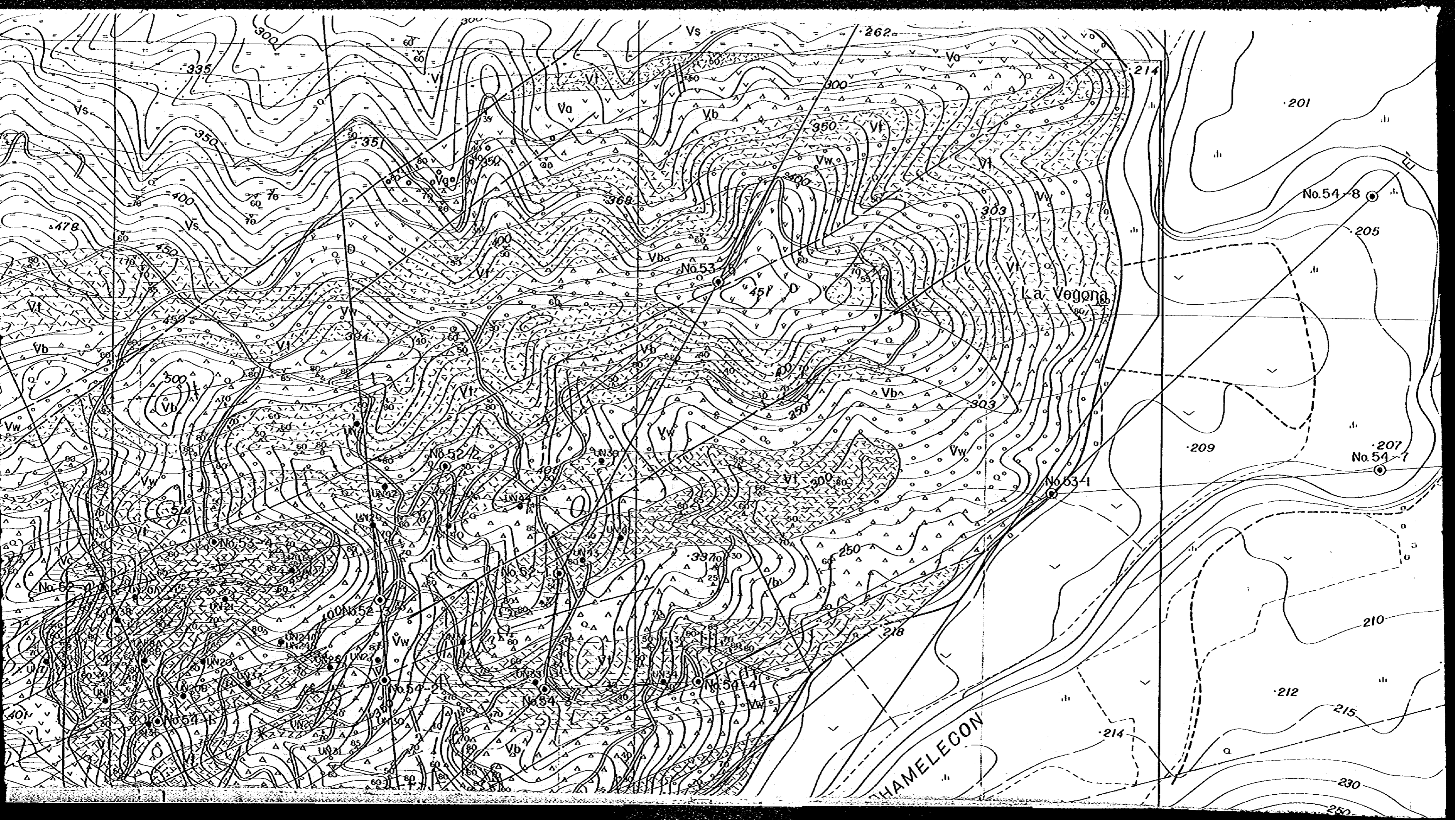
GEOLOGICAL MAP OF
THE VUELTAS DEL RIO SECTOR

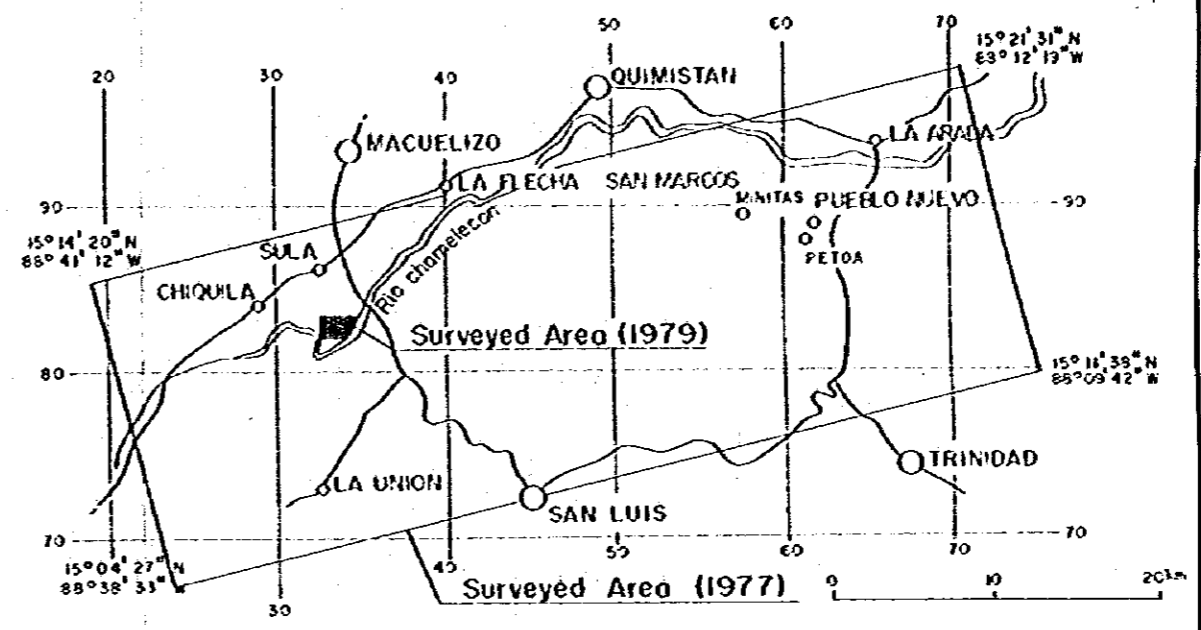
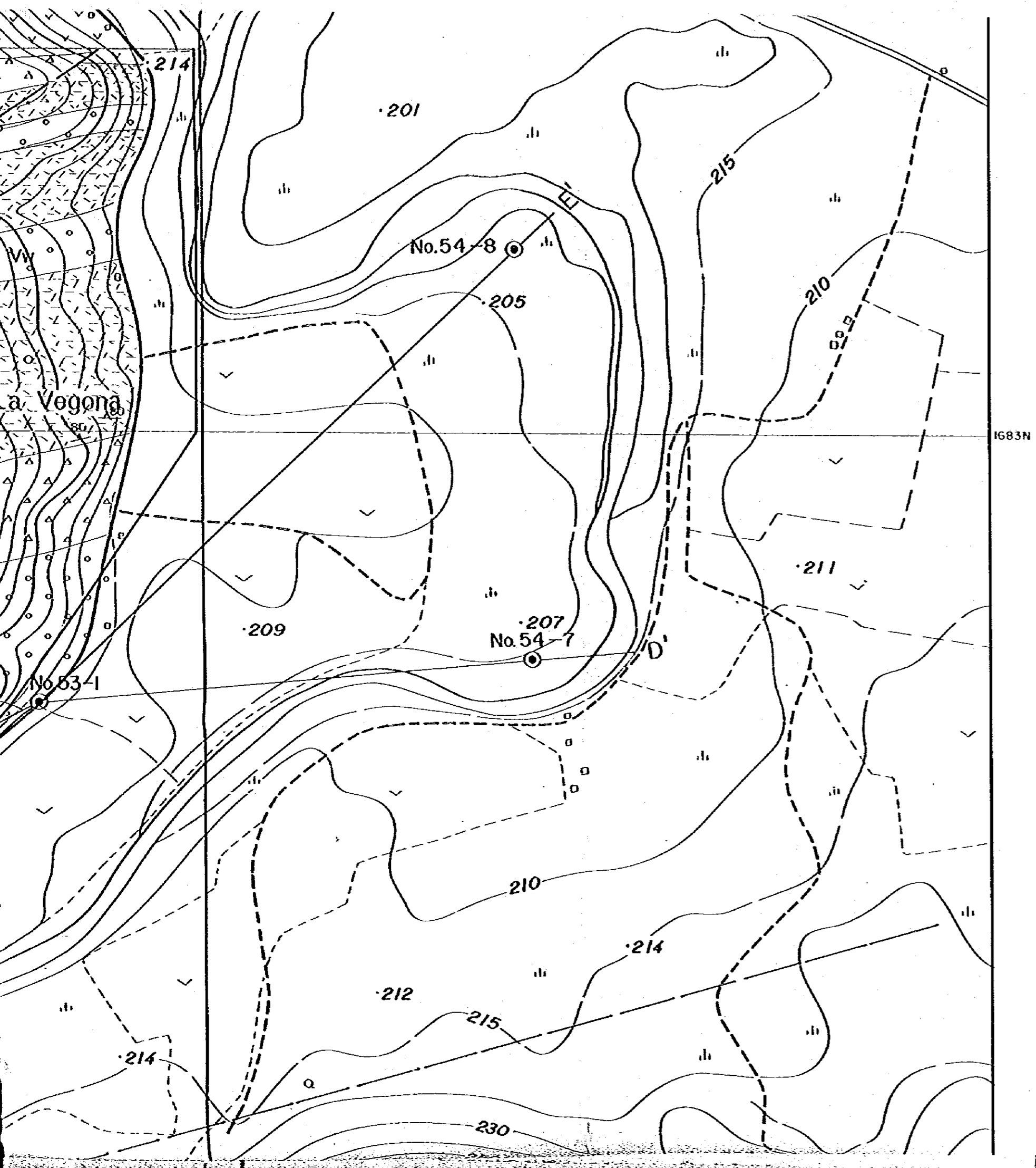


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FEBRUARY 1980
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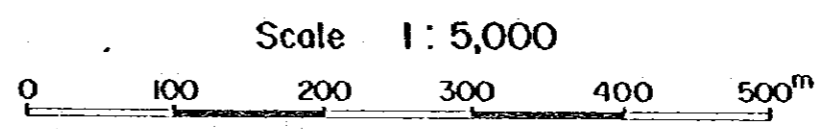






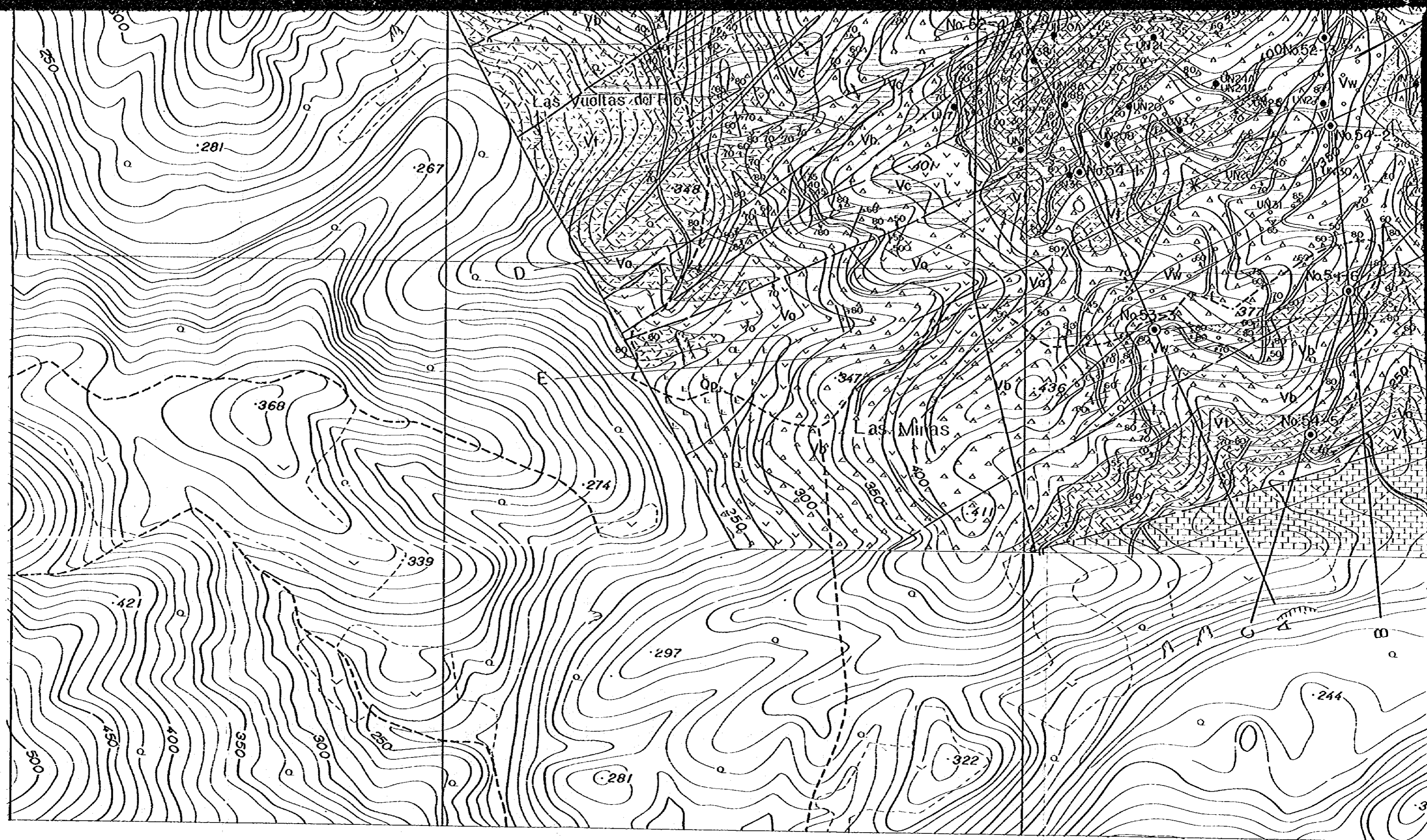


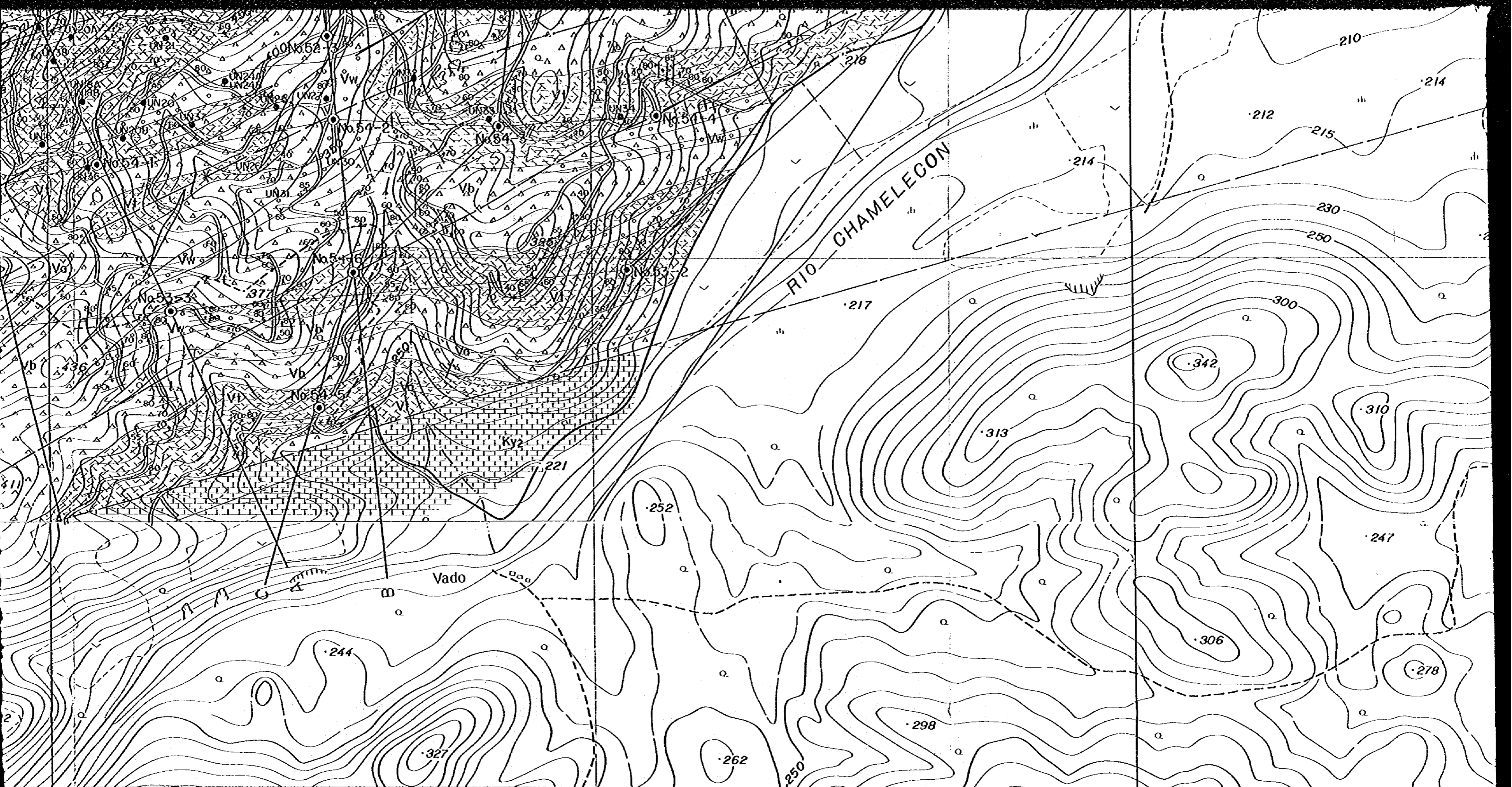
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 FEBRUARY 1980
 Prepared by MESCO, Inc.

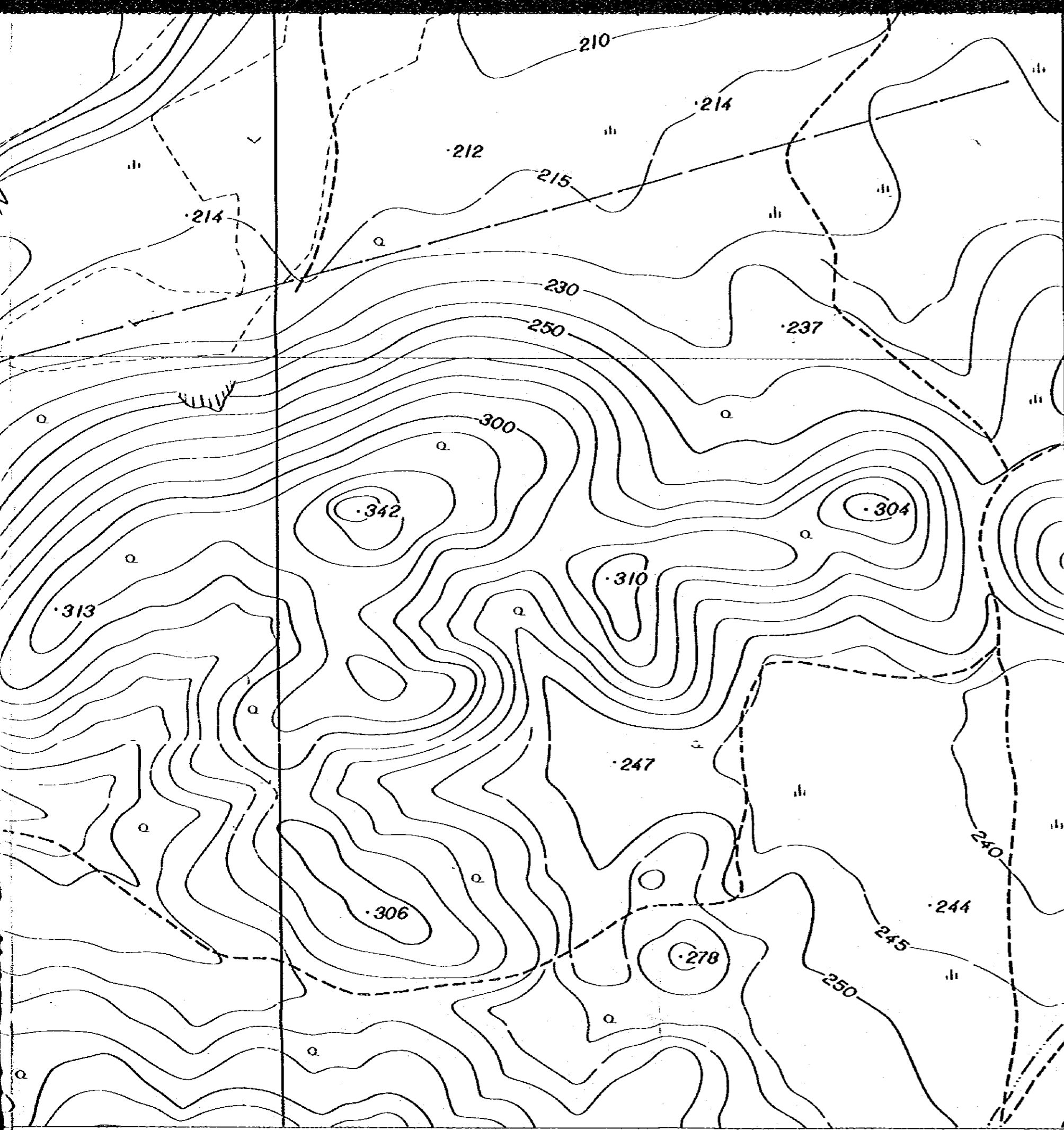


LEGEND

Formation	Stratigraphical		Lithology
	Mark	Symbol	
Alluvium		Q	gravel, sand & mud
Alimo F.		Ky2	massive limestone
		VI	meta luff
		Vb	meta luff breccio



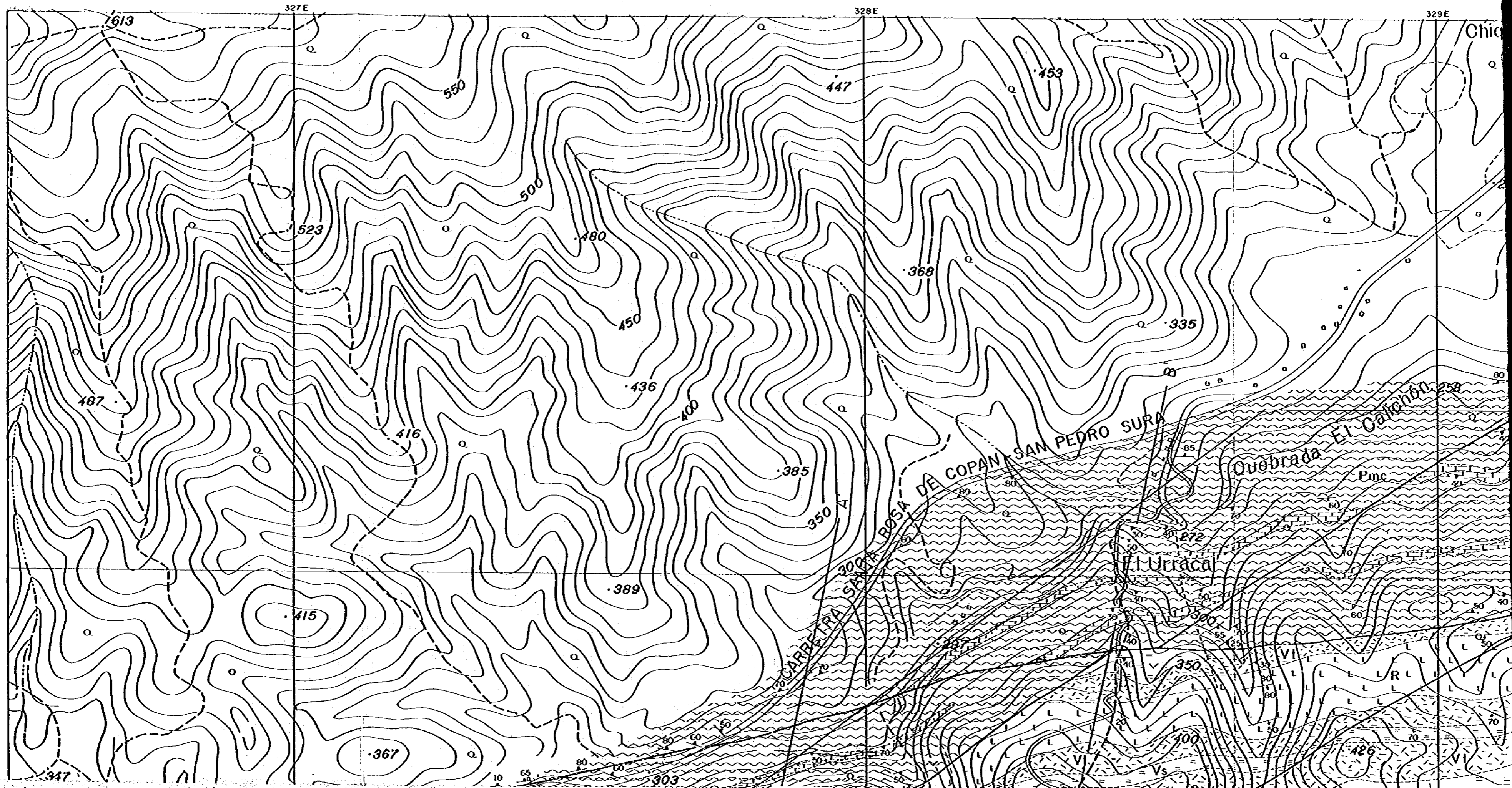


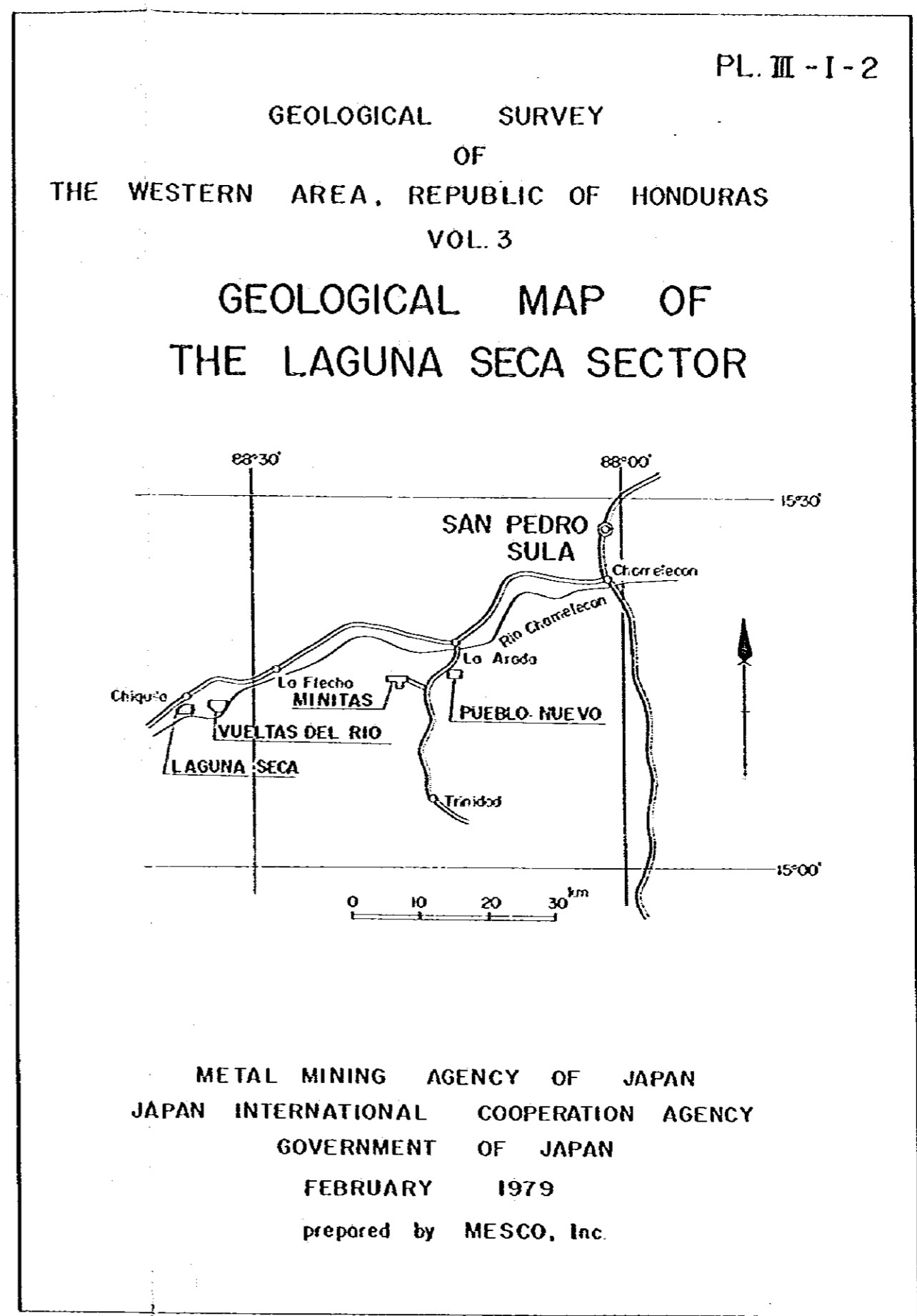
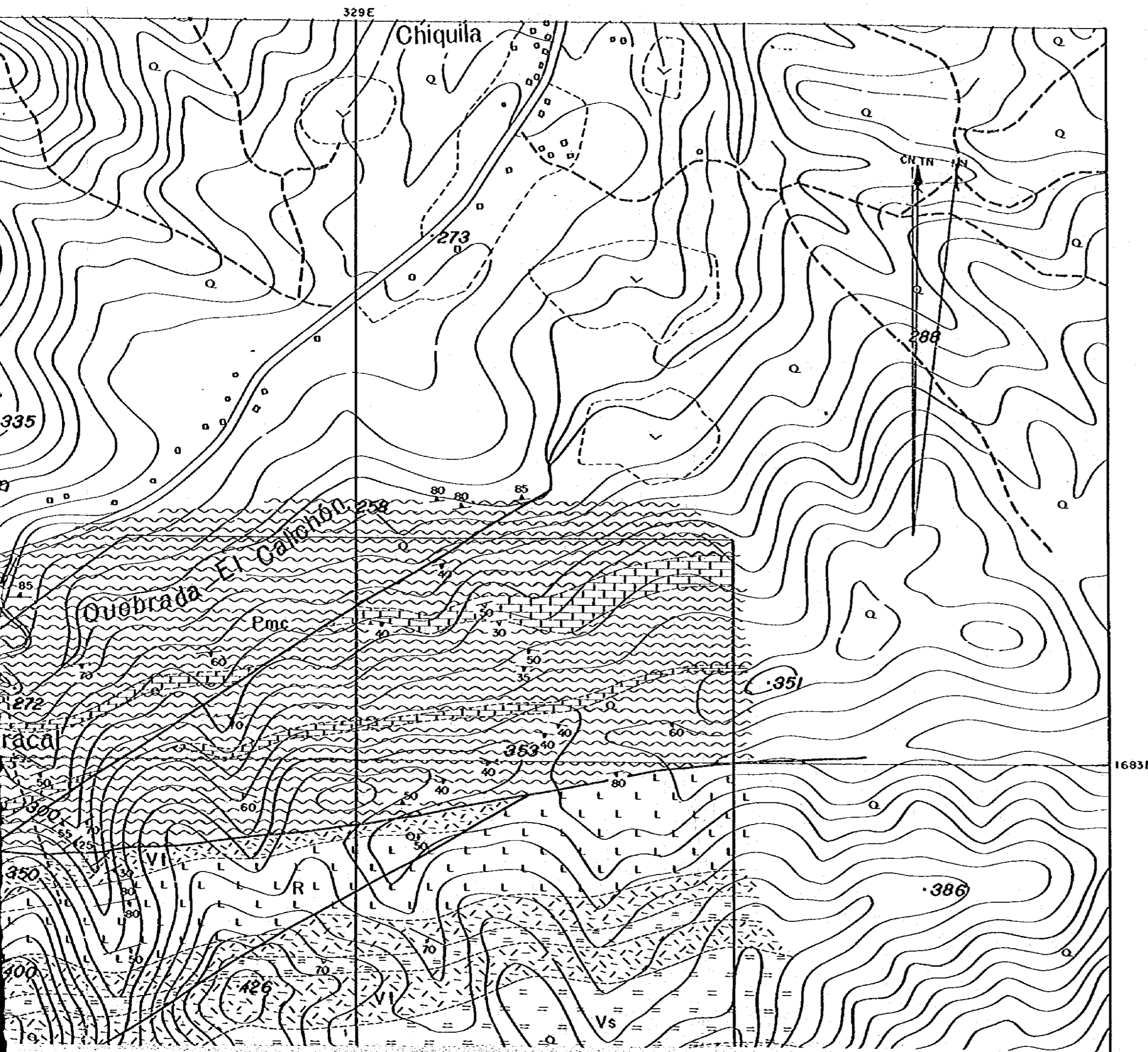


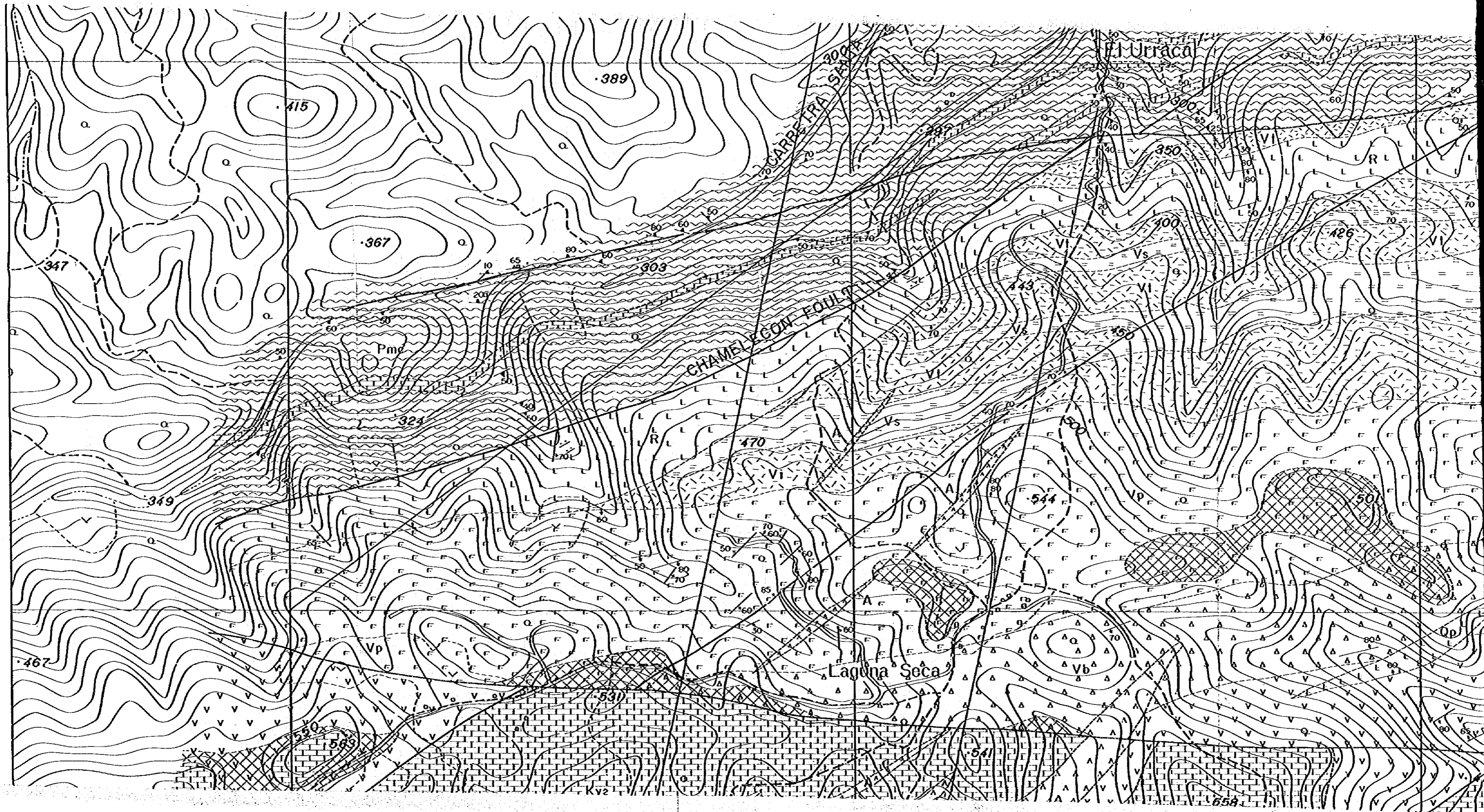
LEGEND

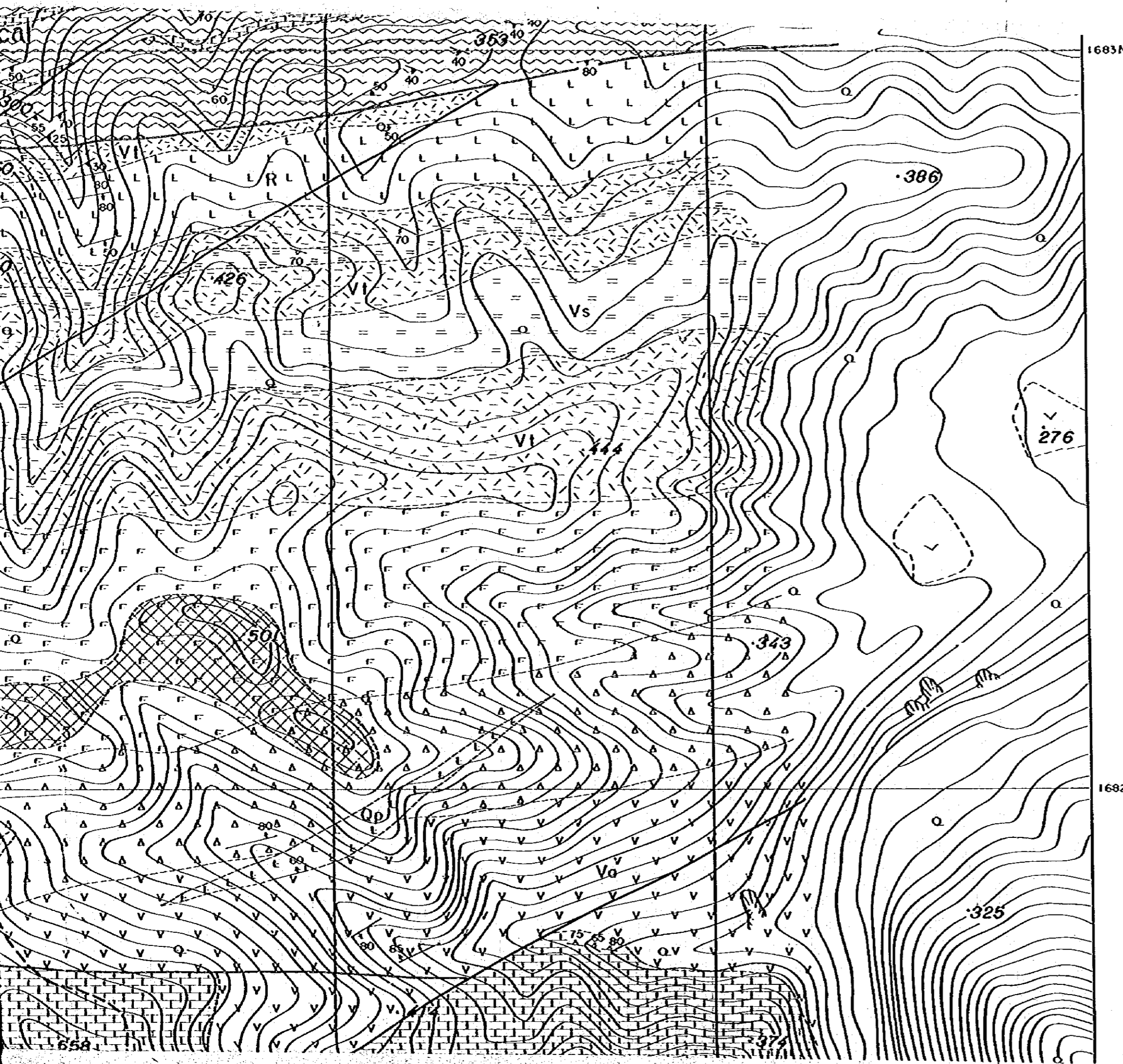
Formation	Stratigraphical		Lithology
	Mark	Symbol	
Alluvium		Q	gravel, sand & mud
Atimo F.		Ky2	massive limestone
Vueltas del Rio F.		VI	meta tuff
		Vb	meta tuff breccia
		Vw	meta welded tuff & meta tuff
		Vc	shale
		Vg	conglomerate
		Vo	meta andesite & meta welded tuff
		Vs	scholstein, diabase, meta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

- | | | | |
|--|-------------------------------------|--|--------------------------------|
| | bedding plane | | anticlinal axis/synclinal axis |
| | fissure | | adit |
| | fault | | surveyed area (1978) |
| | DDH by UNDP
(1969~1972) | | surveyed area (1979) |
| | DDH by Japanese team
(1977~1979) | | |









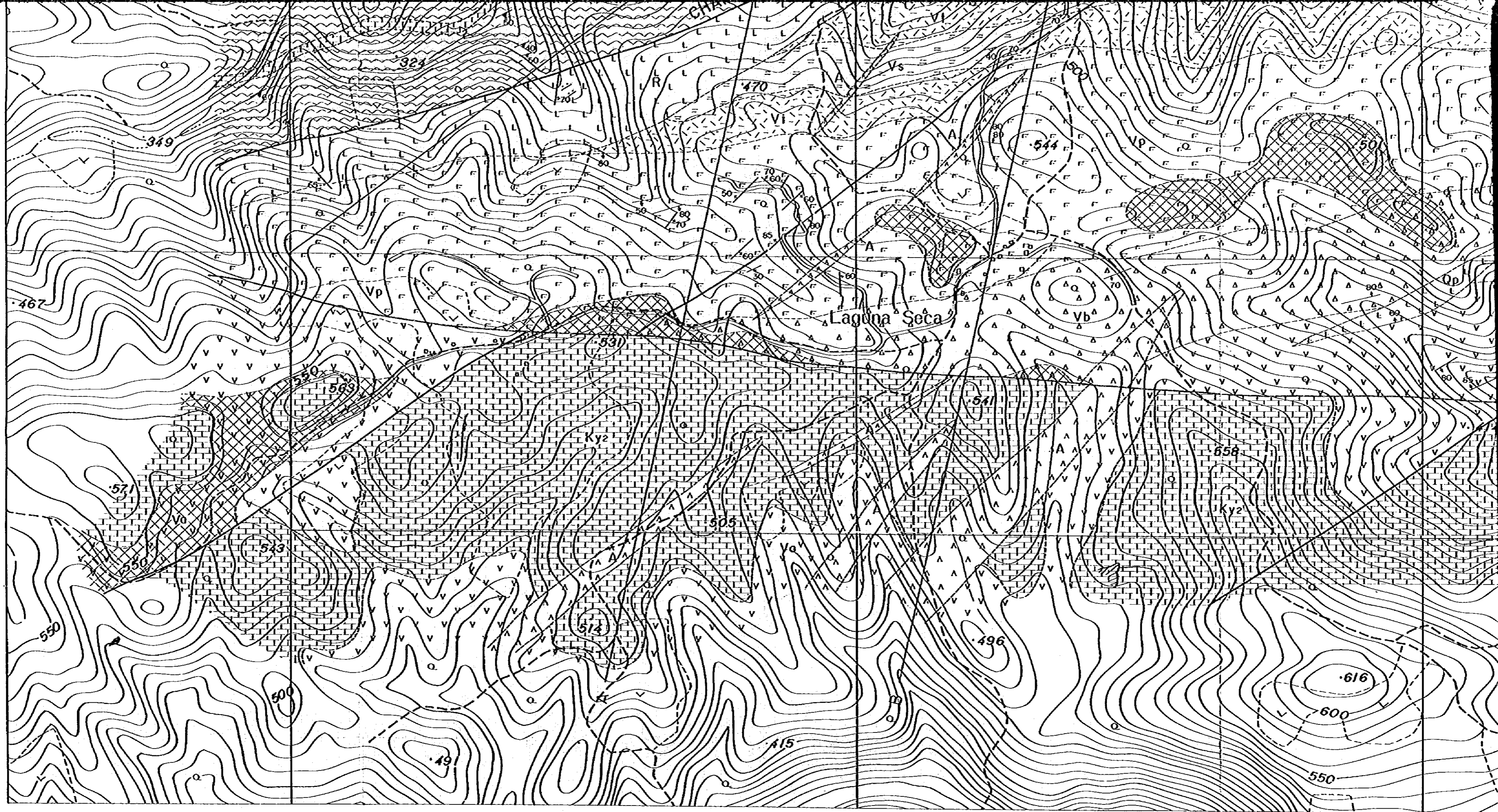
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 FEBRUARY 1979
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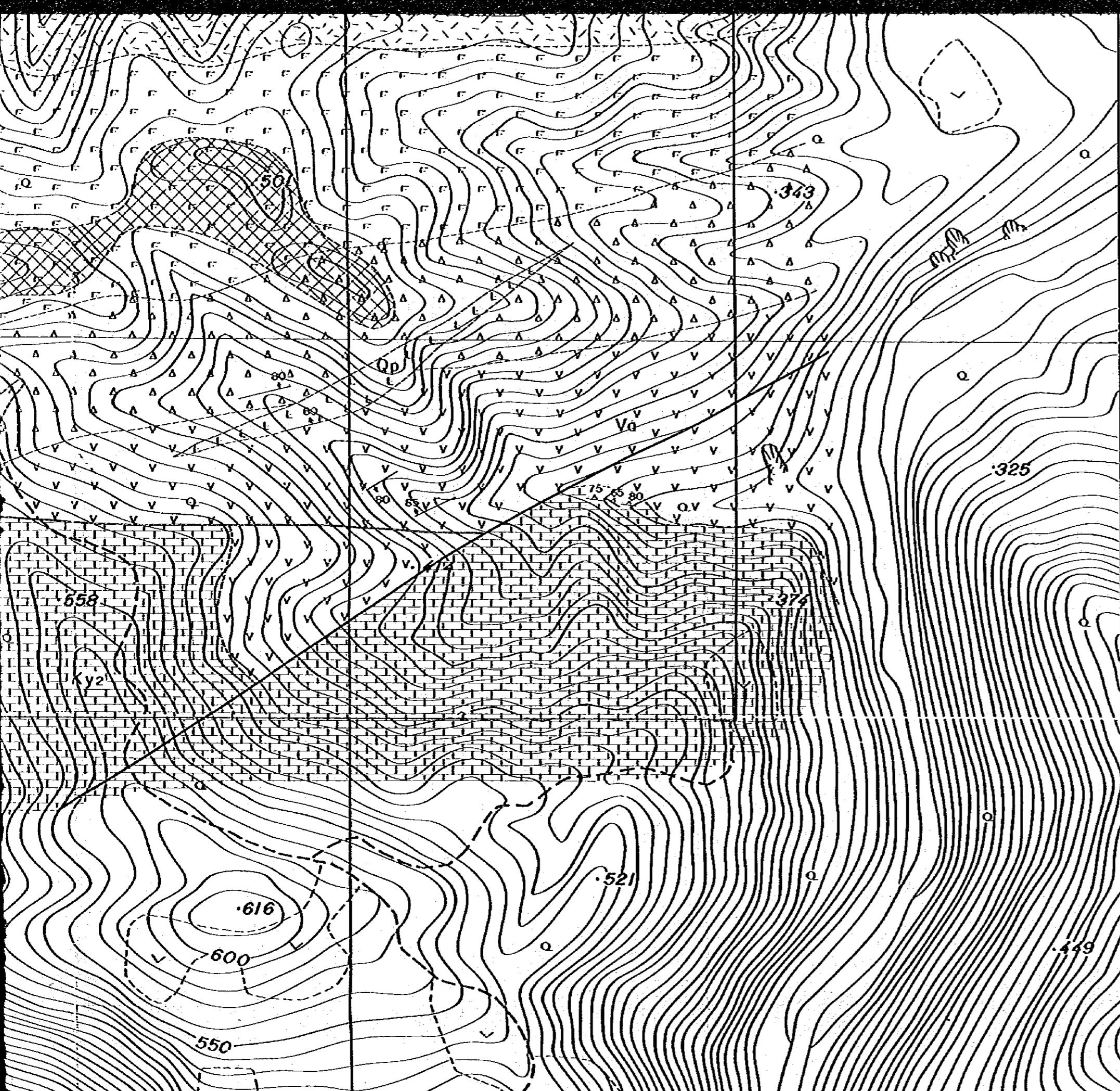
Scale 1 : 5,000



LEGEND

Formation	Stratigraphical		Lithology
	Mark	Symbol	
Alluvium		Q	gravel, sand & mud
Atima F.		Ky2	massive limestone
Vuellas del Rio F.		Vt	tuff
		Vb	tuff breccia
		Vw	welded-tuff & tuff
		Vc	shale
		Vg	conglomerate
		Va	metaandesite & welded tuff
		Vp	dioritic porphyry
		Vs	scholstein, diabase, metaandesite & melodiabase
		Vf	fine tuff
Chiquita - Arado Group		Pmc	chlorite-sericite-schist
		Pml	crystalline limestone





LEGEND

Formation	Stratigraphical		Lithology
	Mark	Symbol	
Alluvium		Q	gravel, sand & mud
Atimo F.		Ky2	massive limestone
Vueltas del Rio F.		Vt	tuff
		Vb	tuff breccio
		Vw	welded-tuff & tuff
		Vc	shale
		Vg	conglomerate
		Vo	metaandesite & welded tuff
		Vp	dioritic porphyry
		Vs	scholstein, 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
- anticlinol axis/synclinal axis
- fissure
- edit
- schistosity
- silicified zone
- fault
- mineral indication (Cu, Pb, Zn)
- DDH by UNDP (1969-1972)
- surveyed area