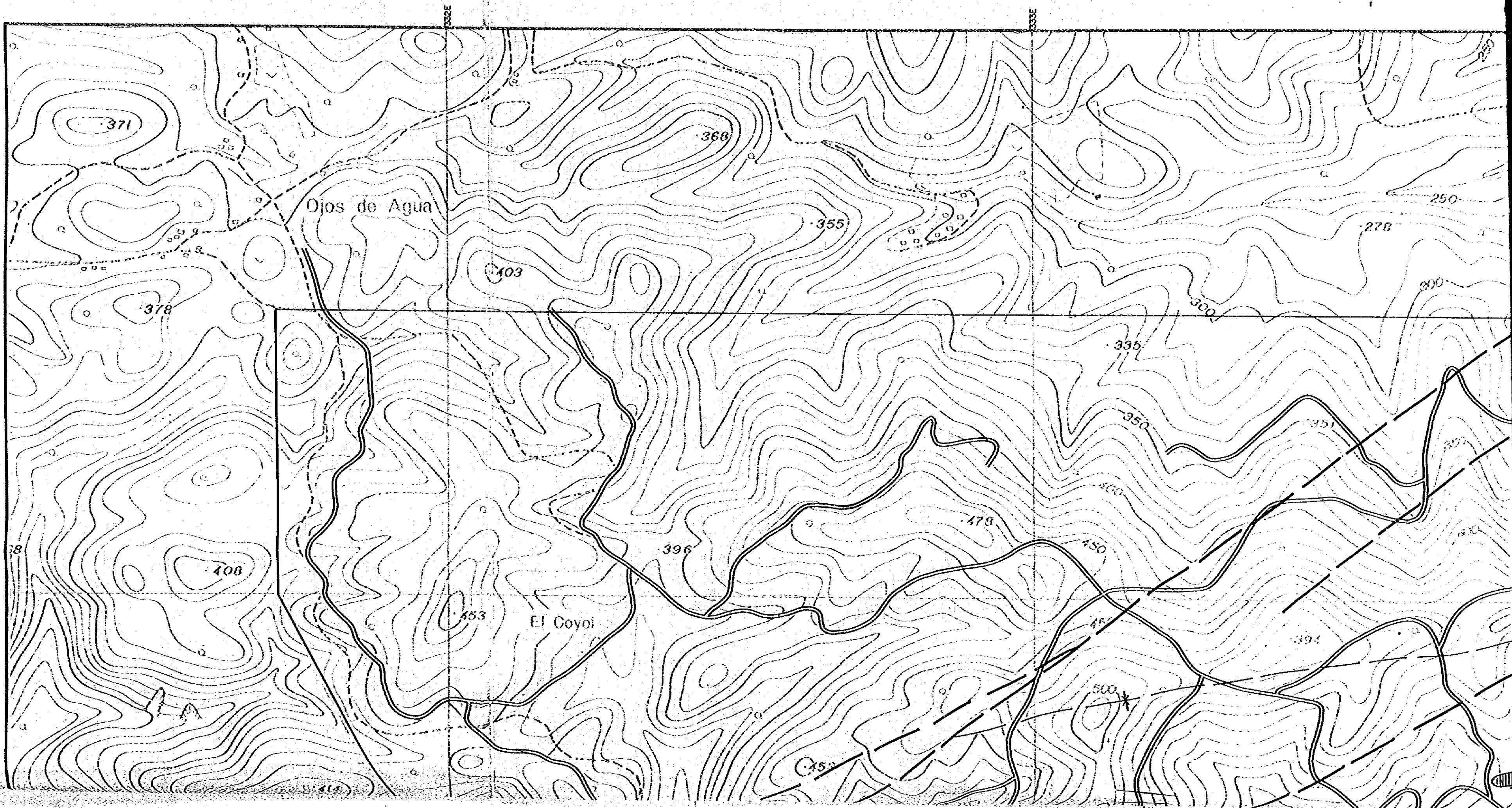
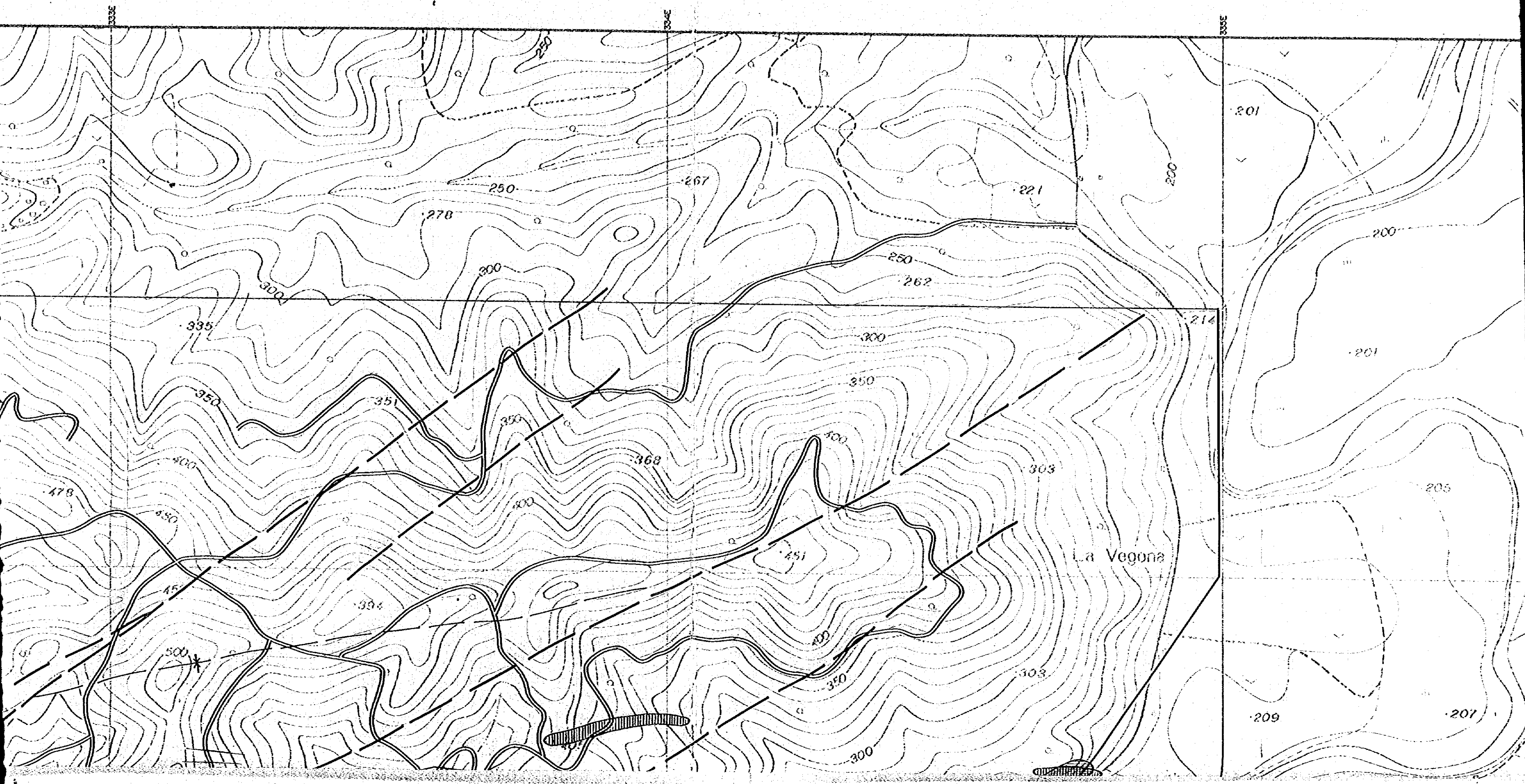
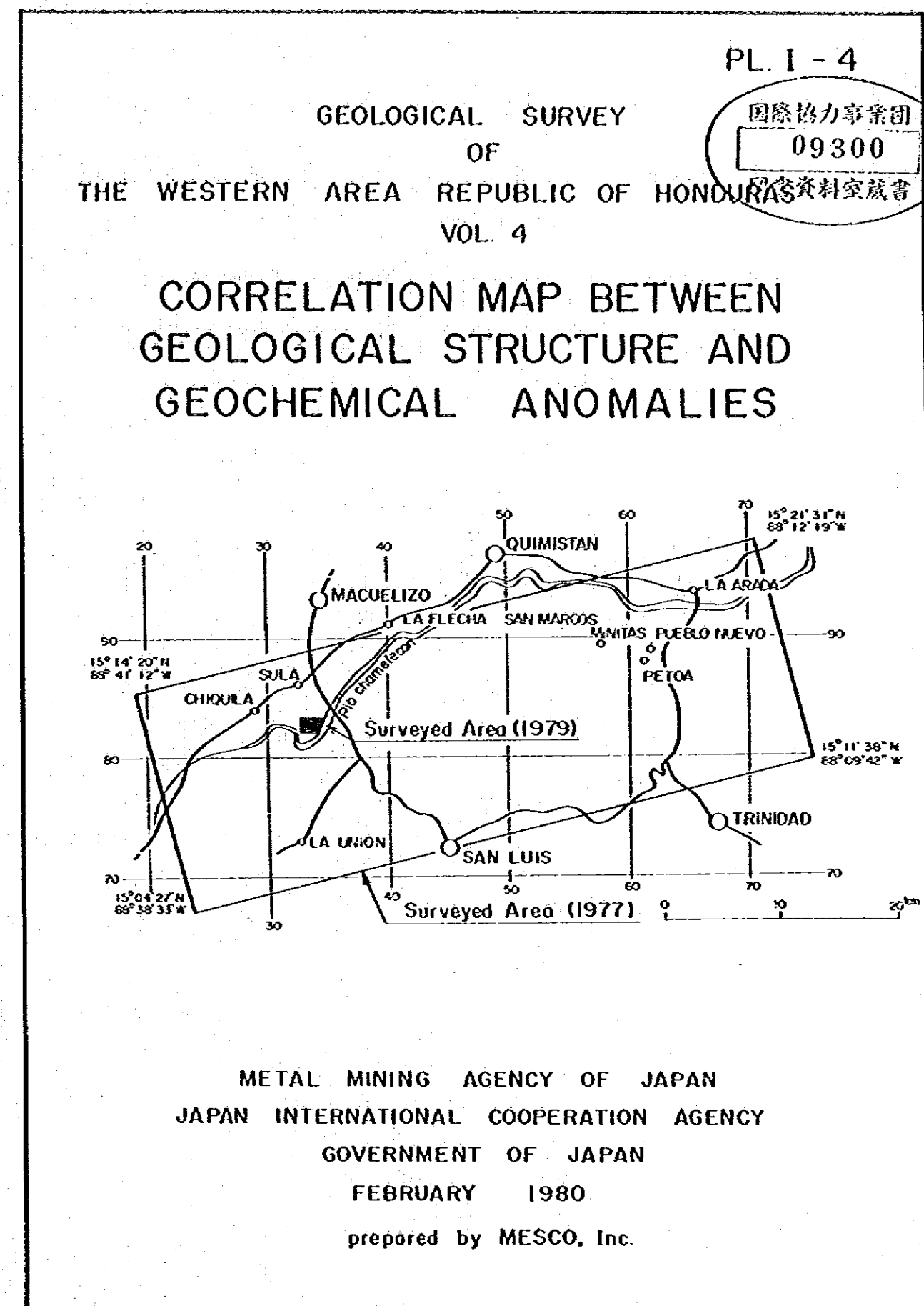
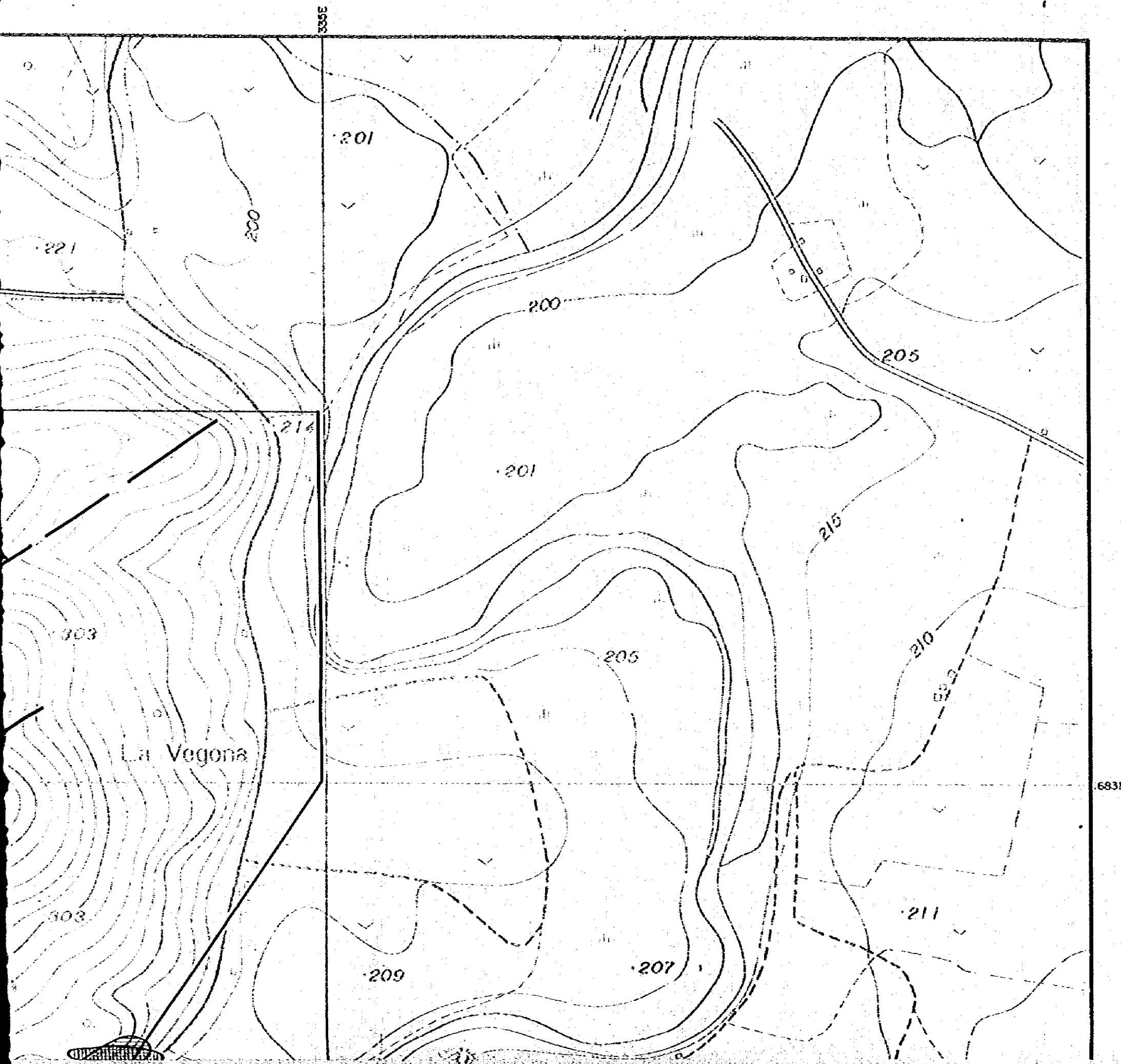
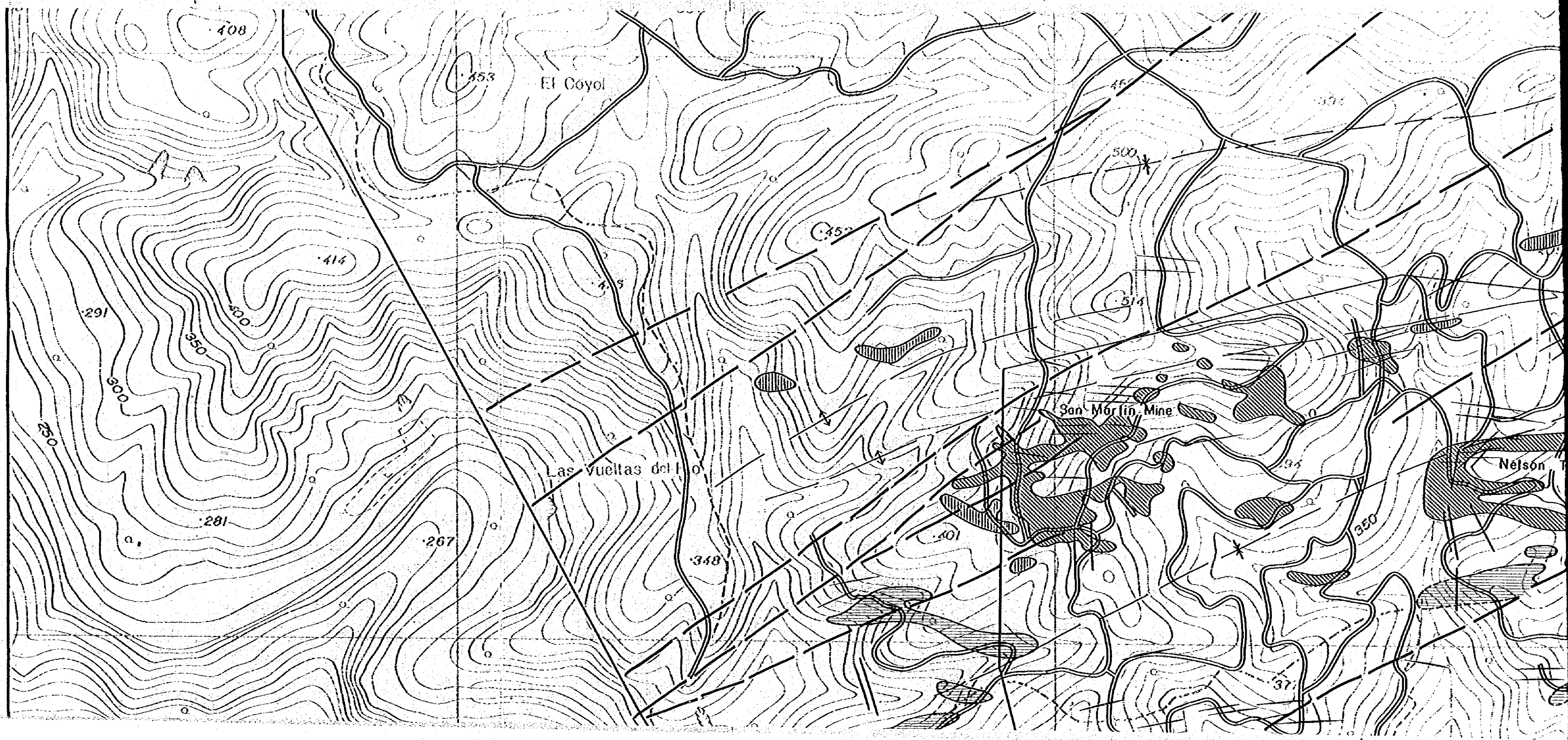
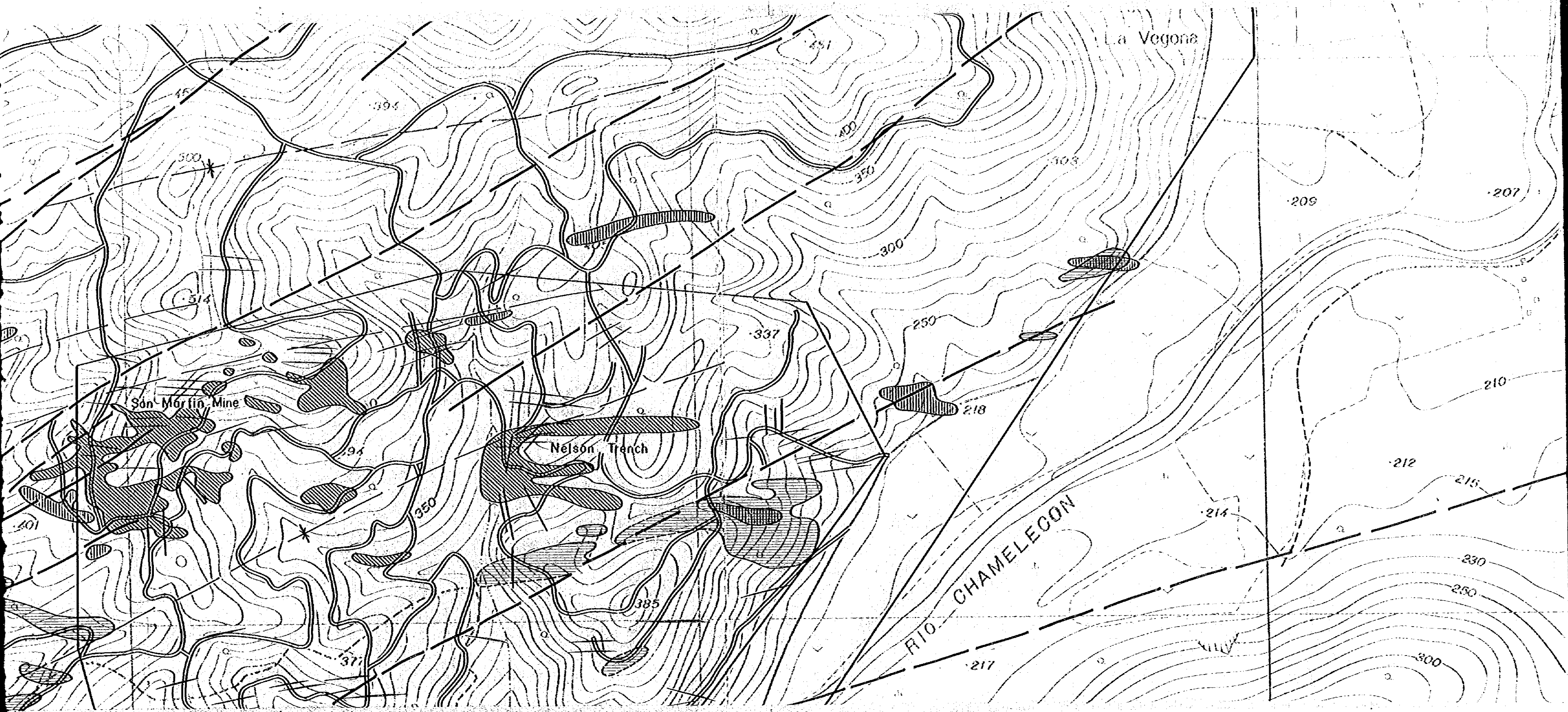


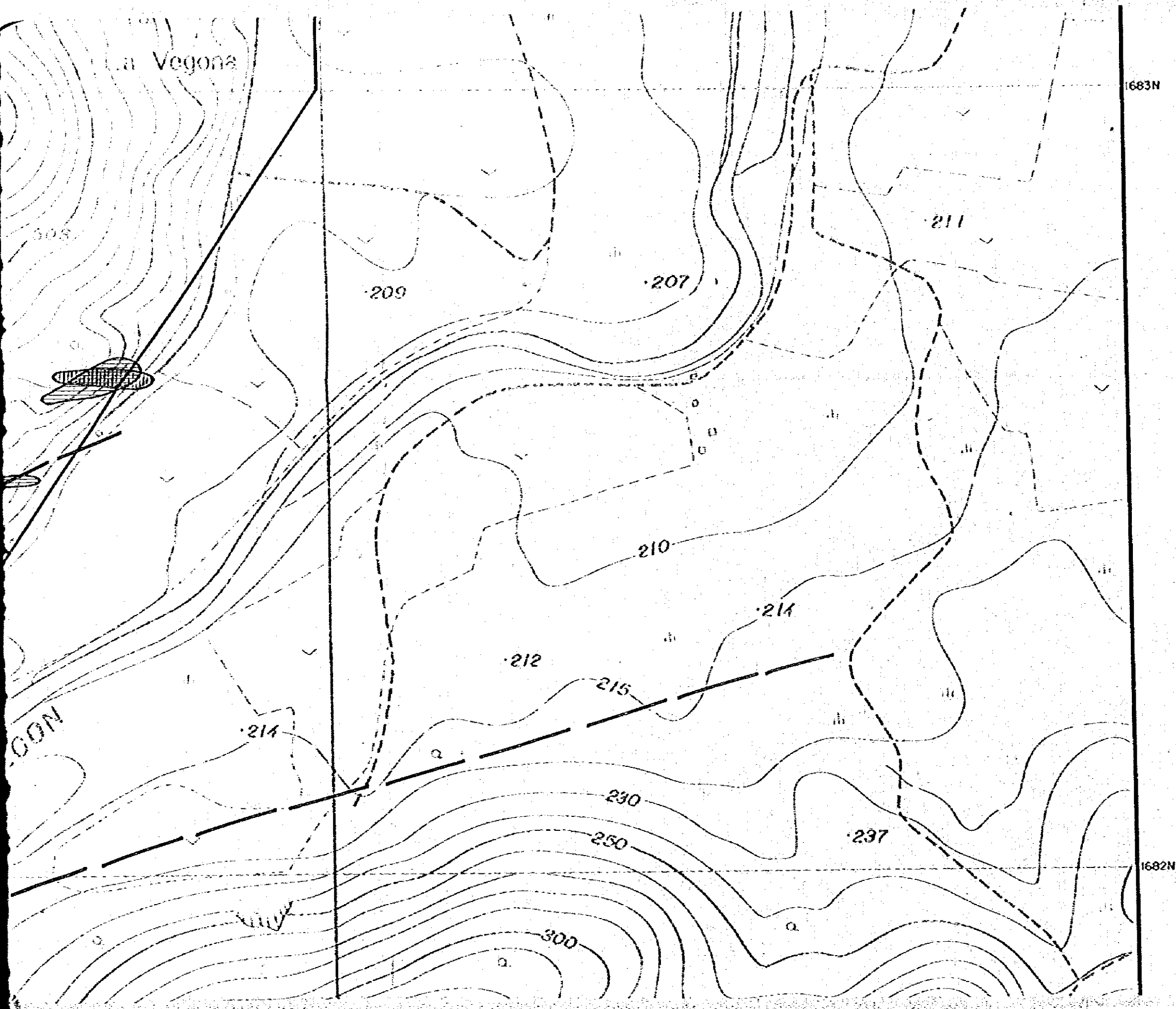




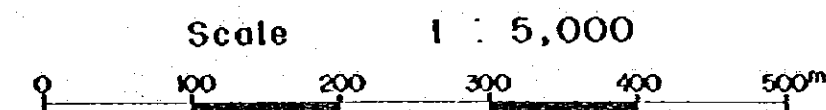




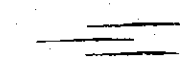


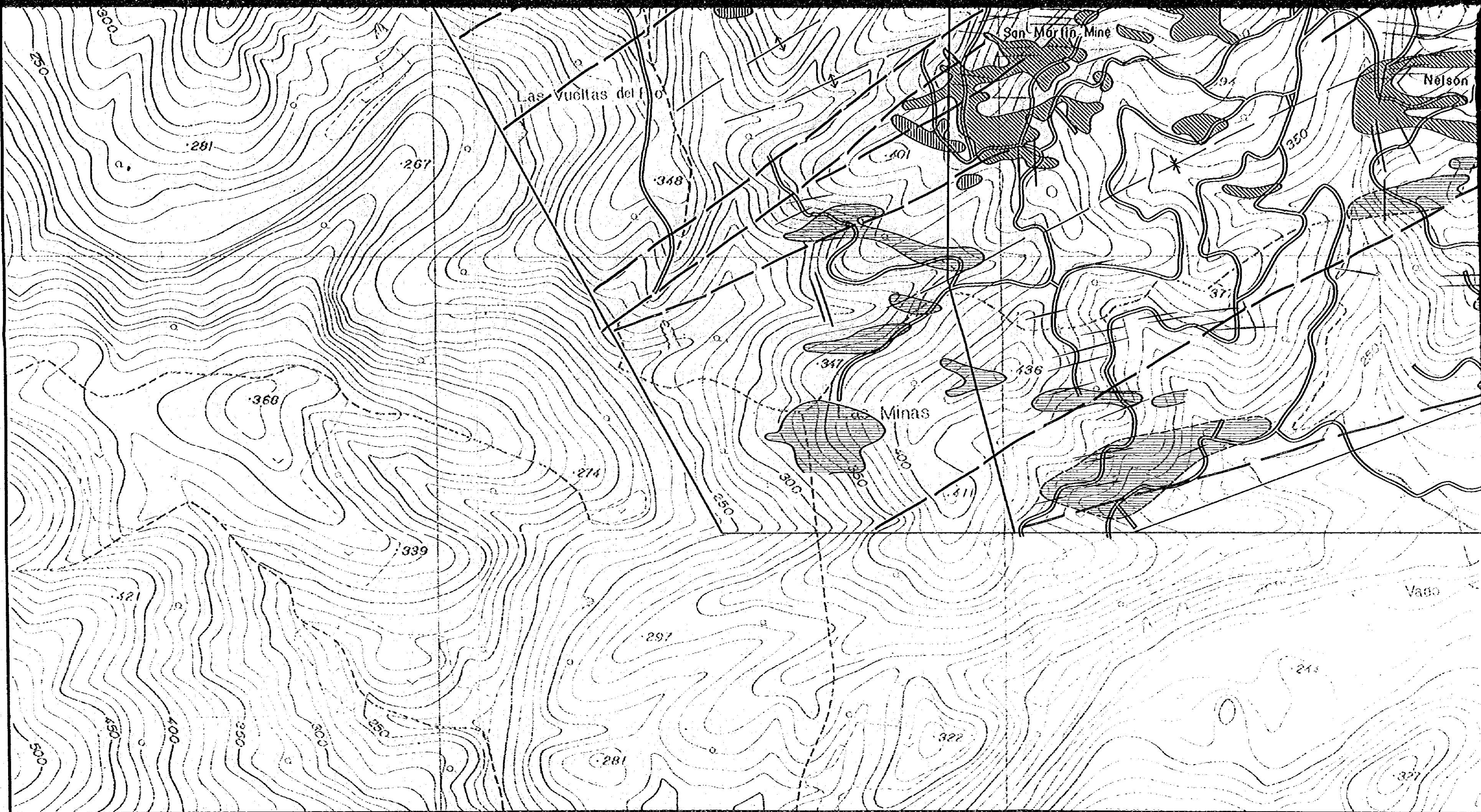


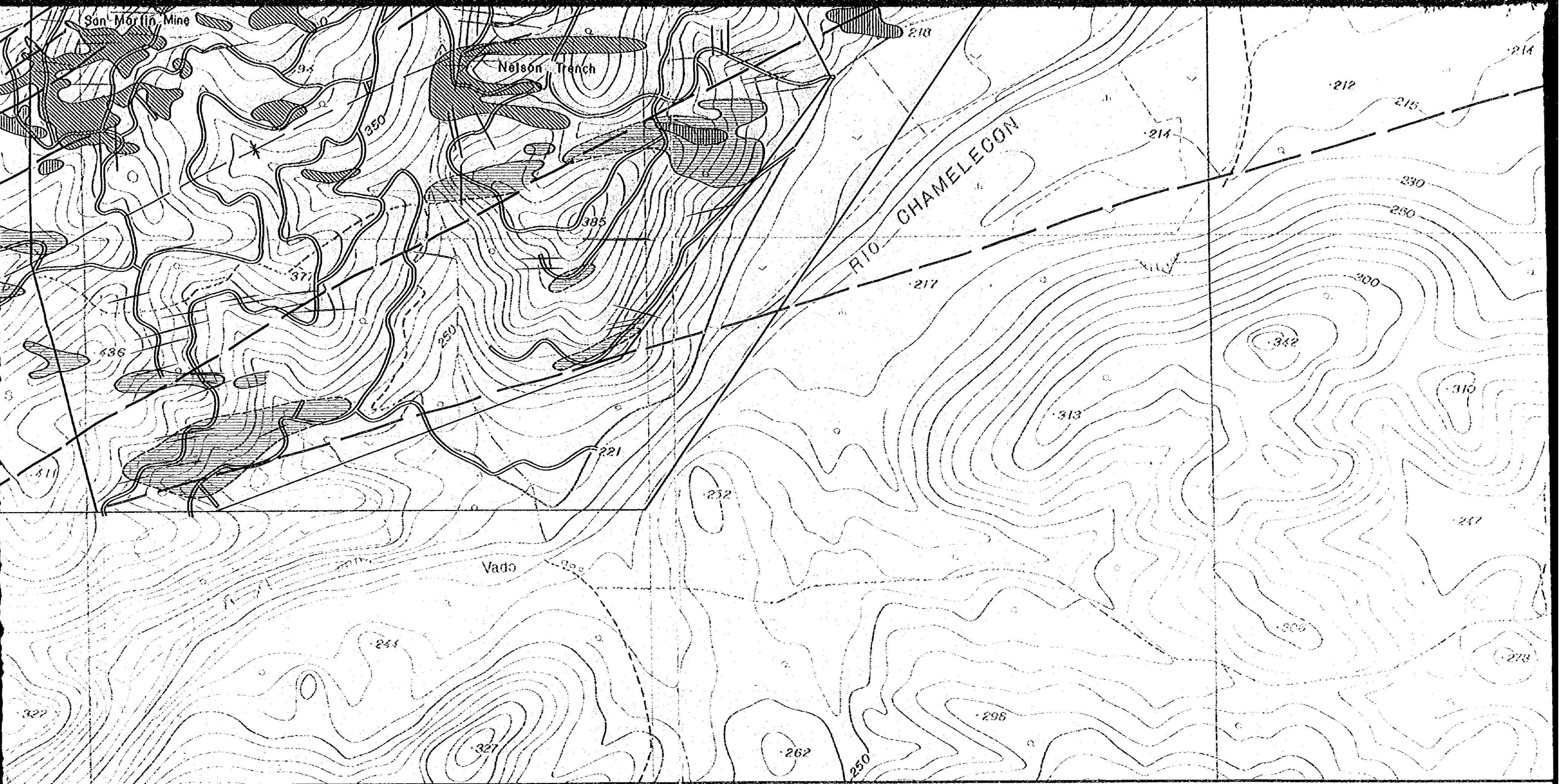
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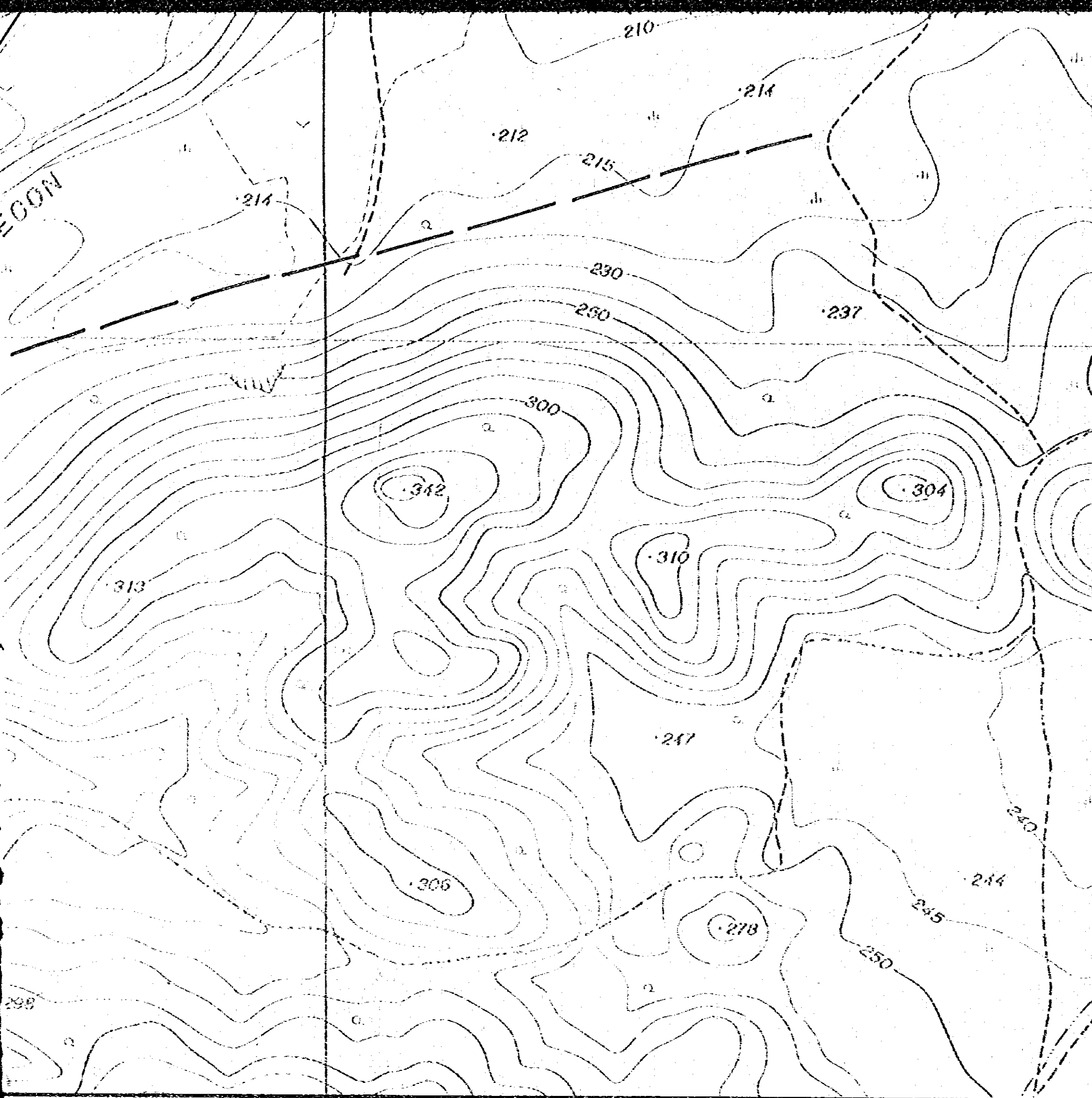


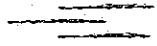
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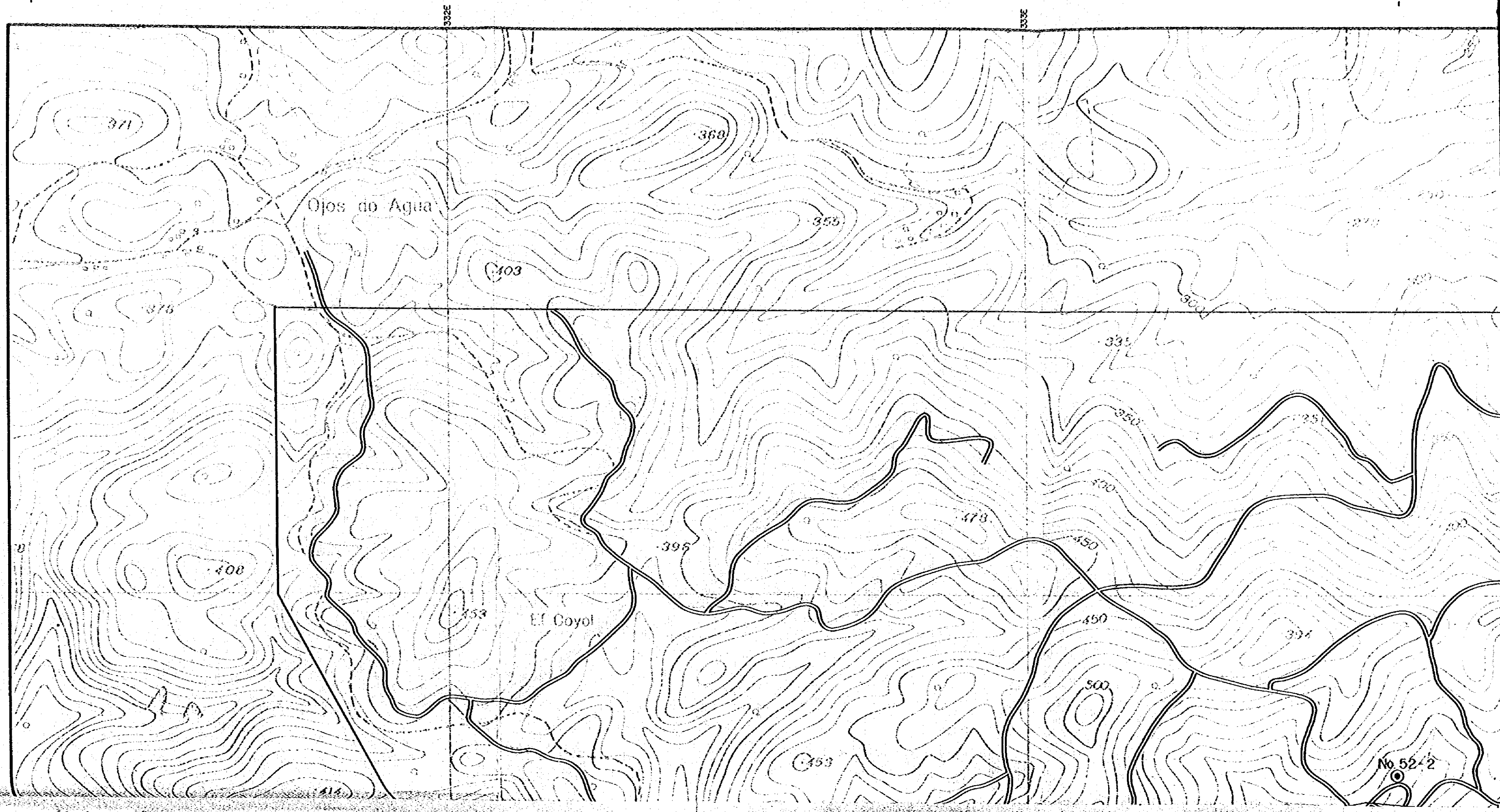
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-  fissure, joint
-  anticlinal axis
-  synclinal axis
-  Au anomaly Au > 1.01 g/t
-  Cu anomaly Cu > 500ppm
-  Zn anomaly Zn > 1000ppm
-  by UNDP

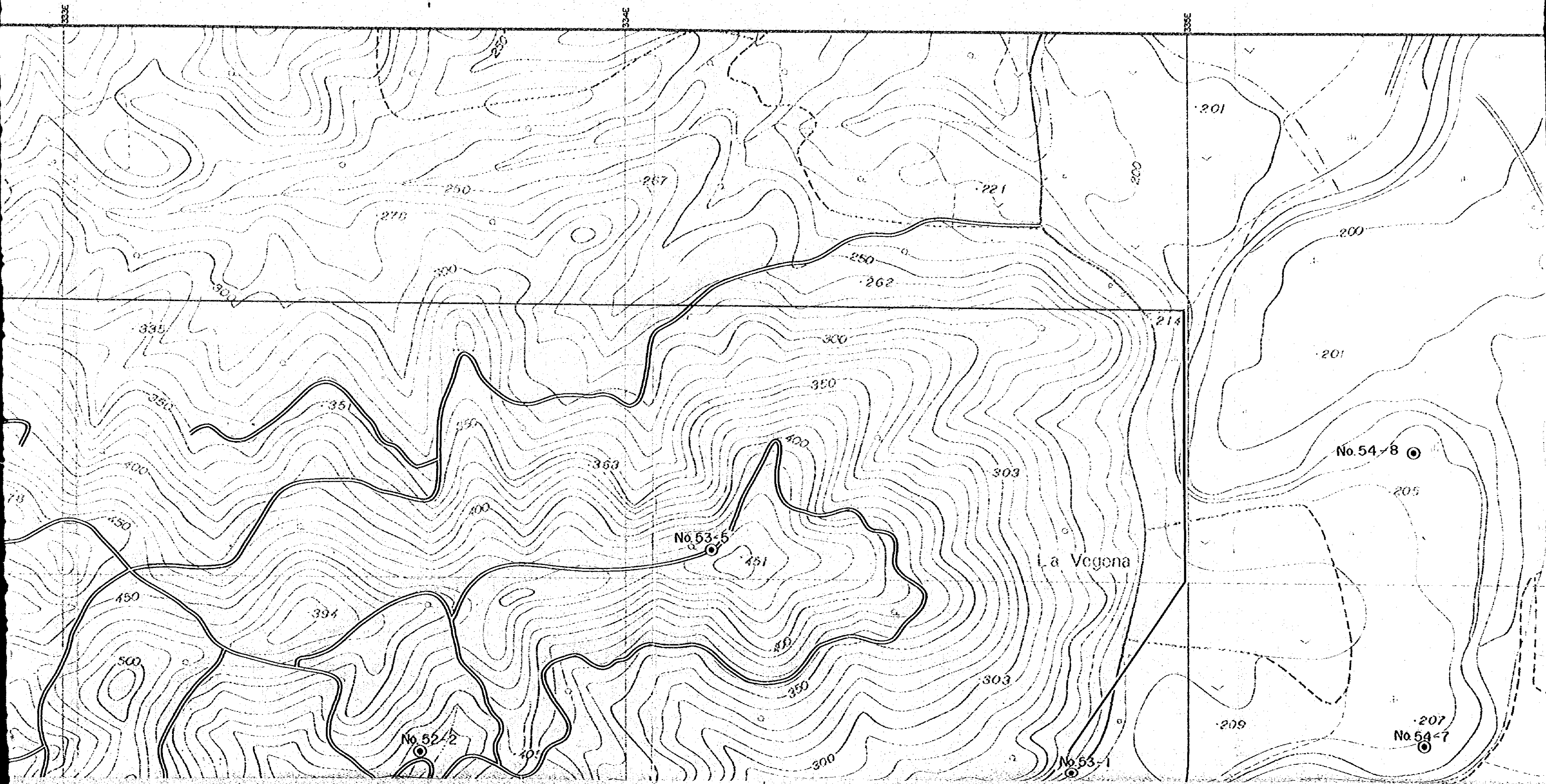


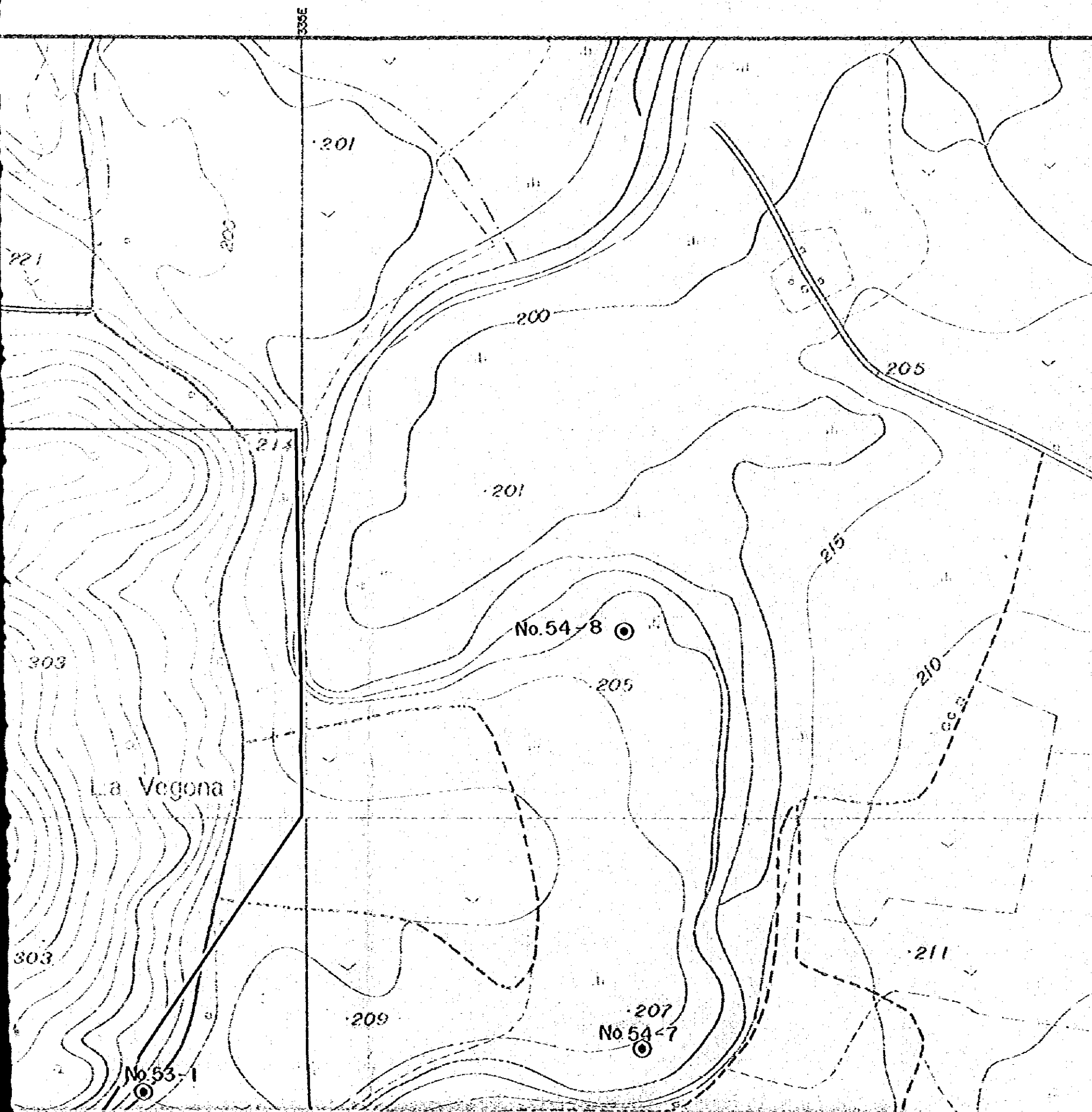




-  fault
-  fissure, joint
-  anticlinal axis
-  synclinal axis
-  Au anomaly Au > 1.01 g/t
-  Cu anomaly Cu > 500 ppm
-  Zn anomaly Zn > 1000 ppm
-  by UNDP
-  by Japanese team



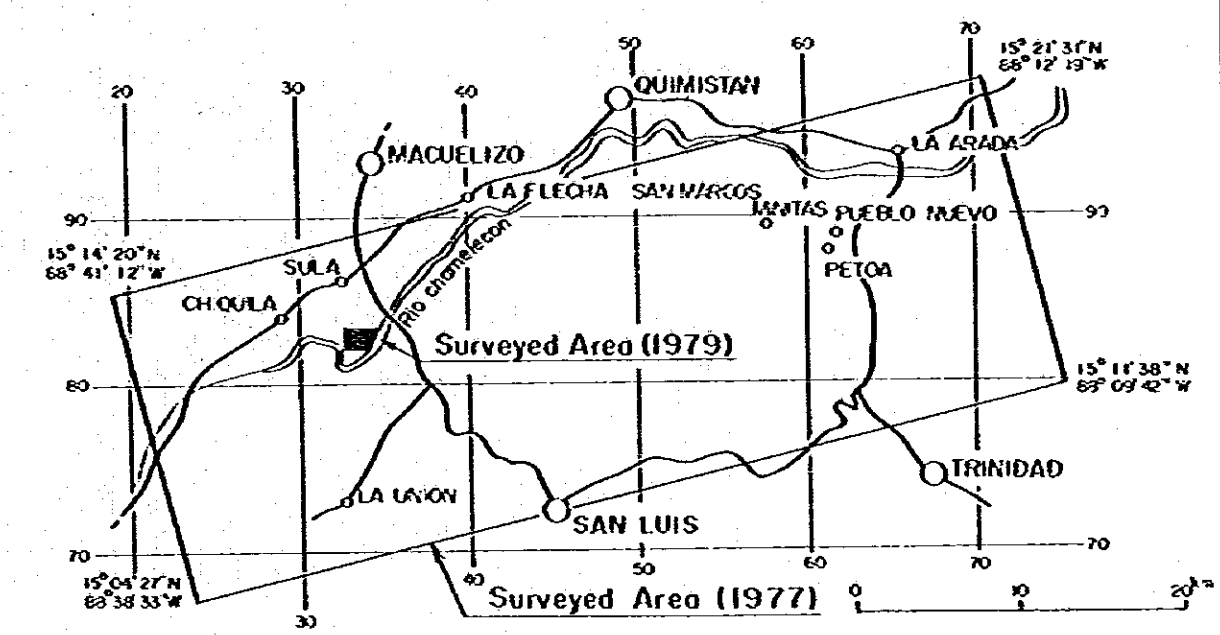




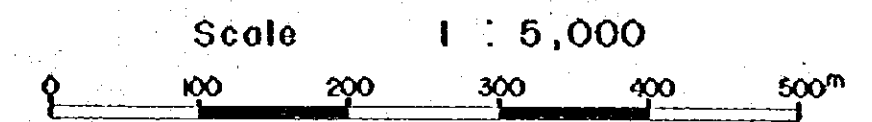
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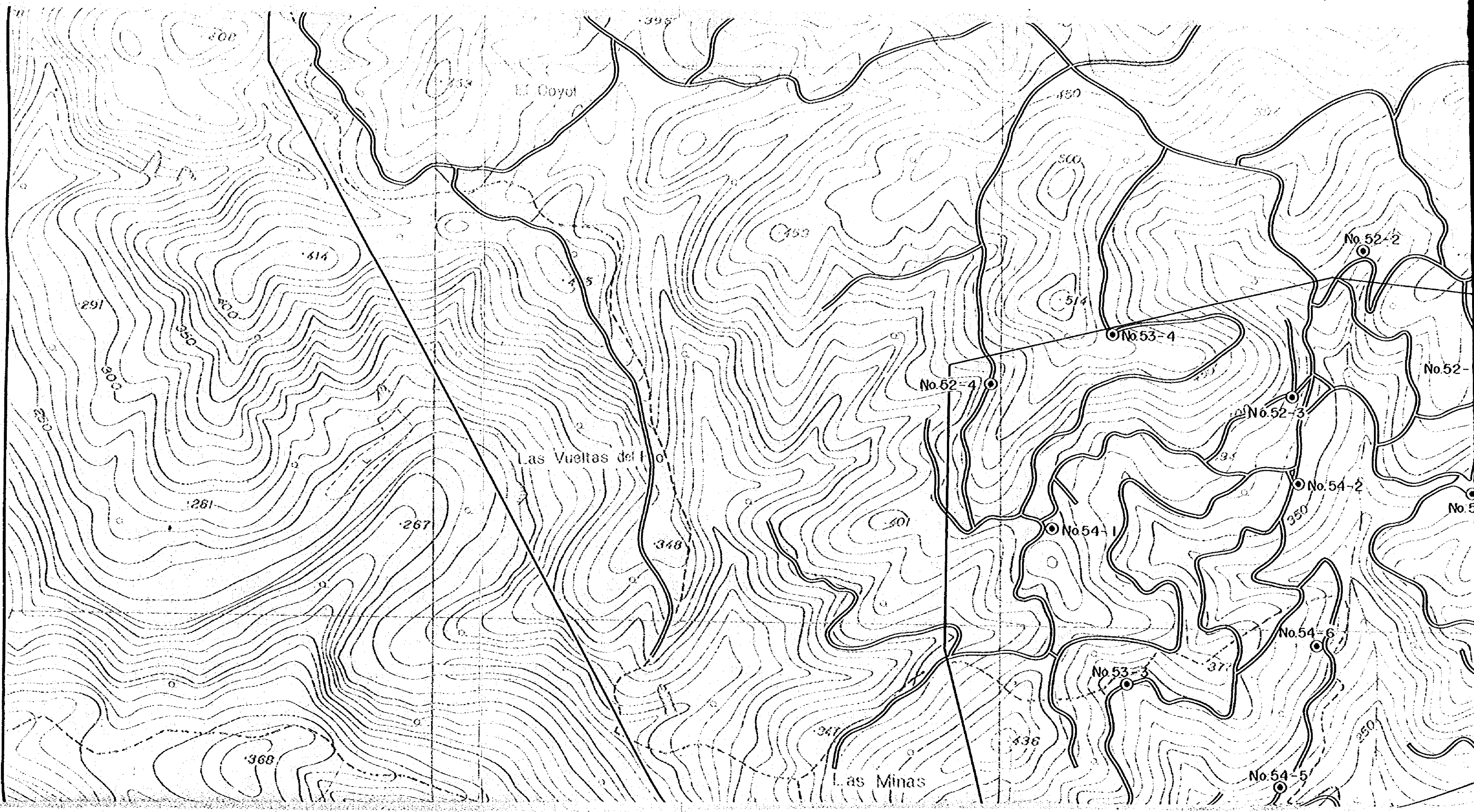
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09300
図書資料室蔵書

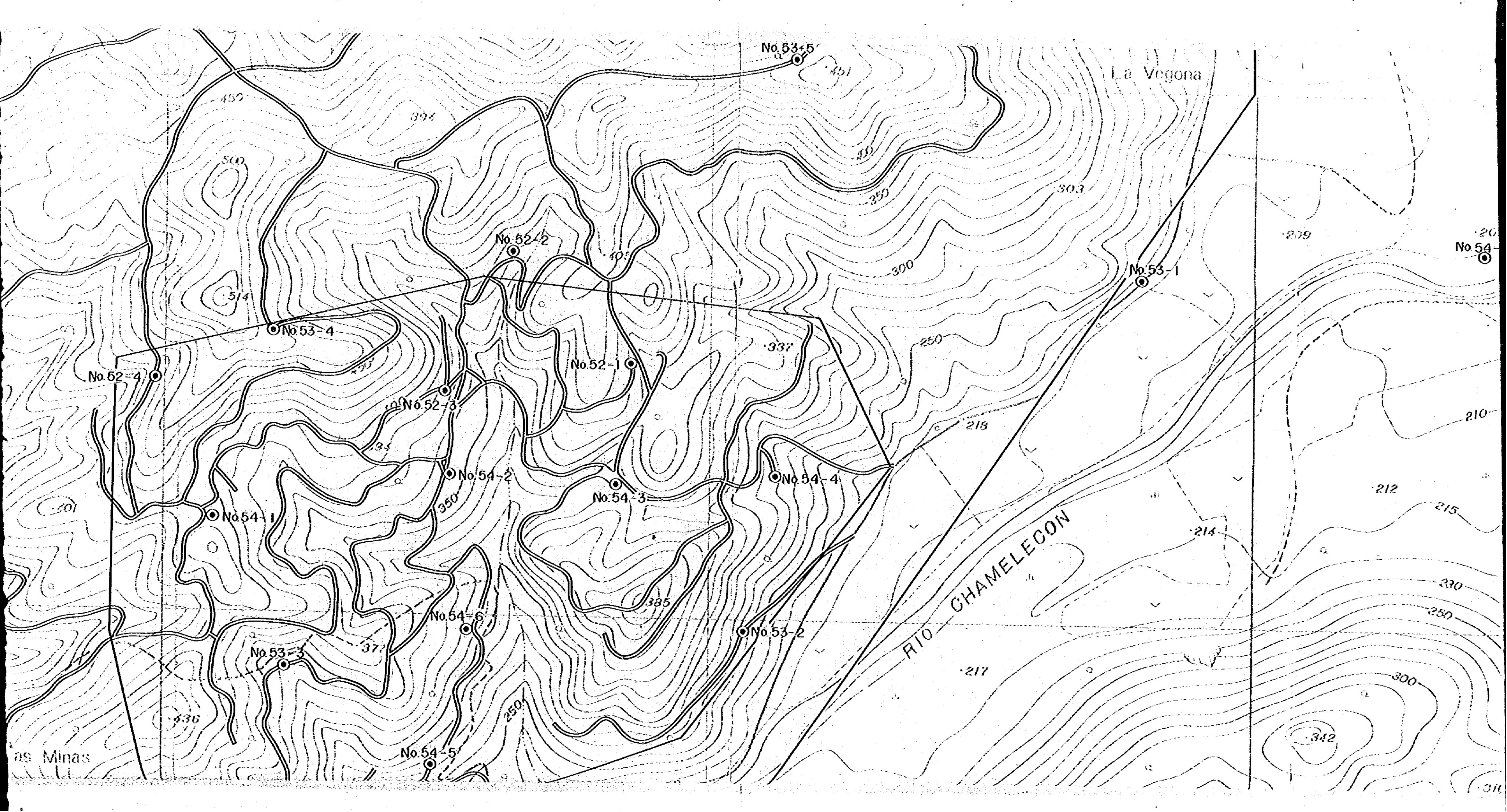
LOCATION MAP OF DRILL HOLES IN THE VUELTAS DEL RIO SECTOR

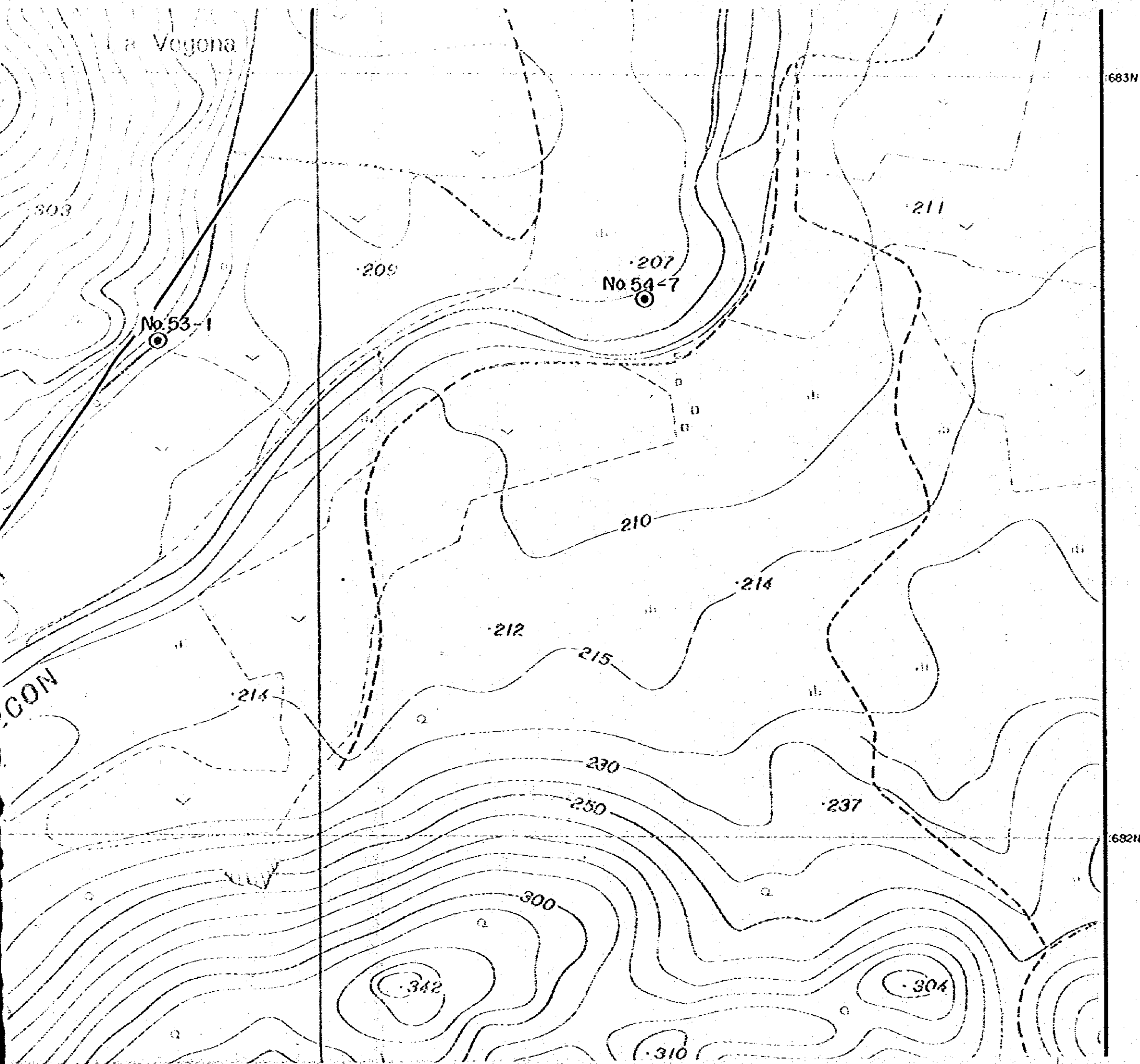


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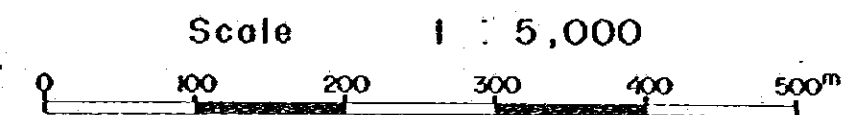




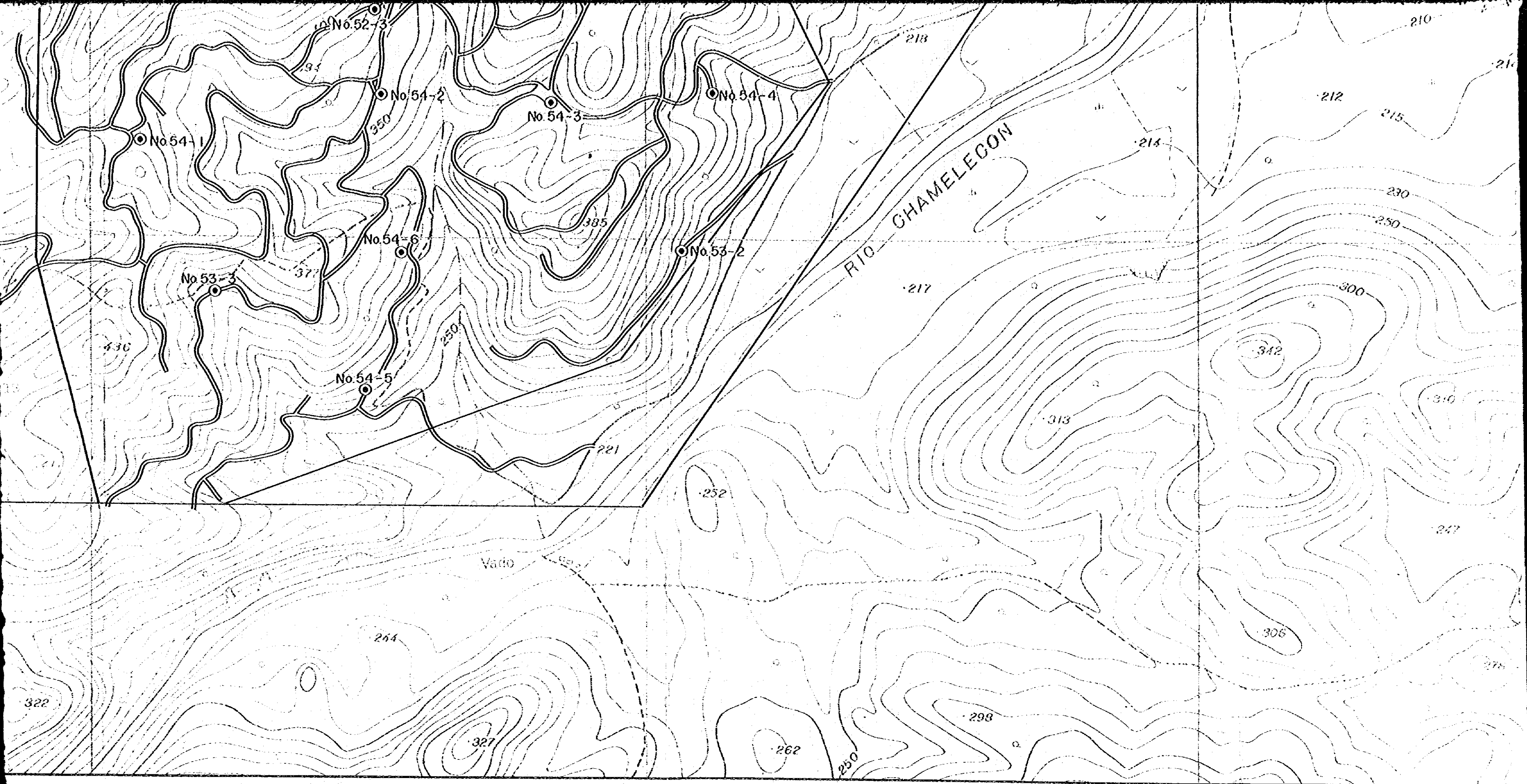


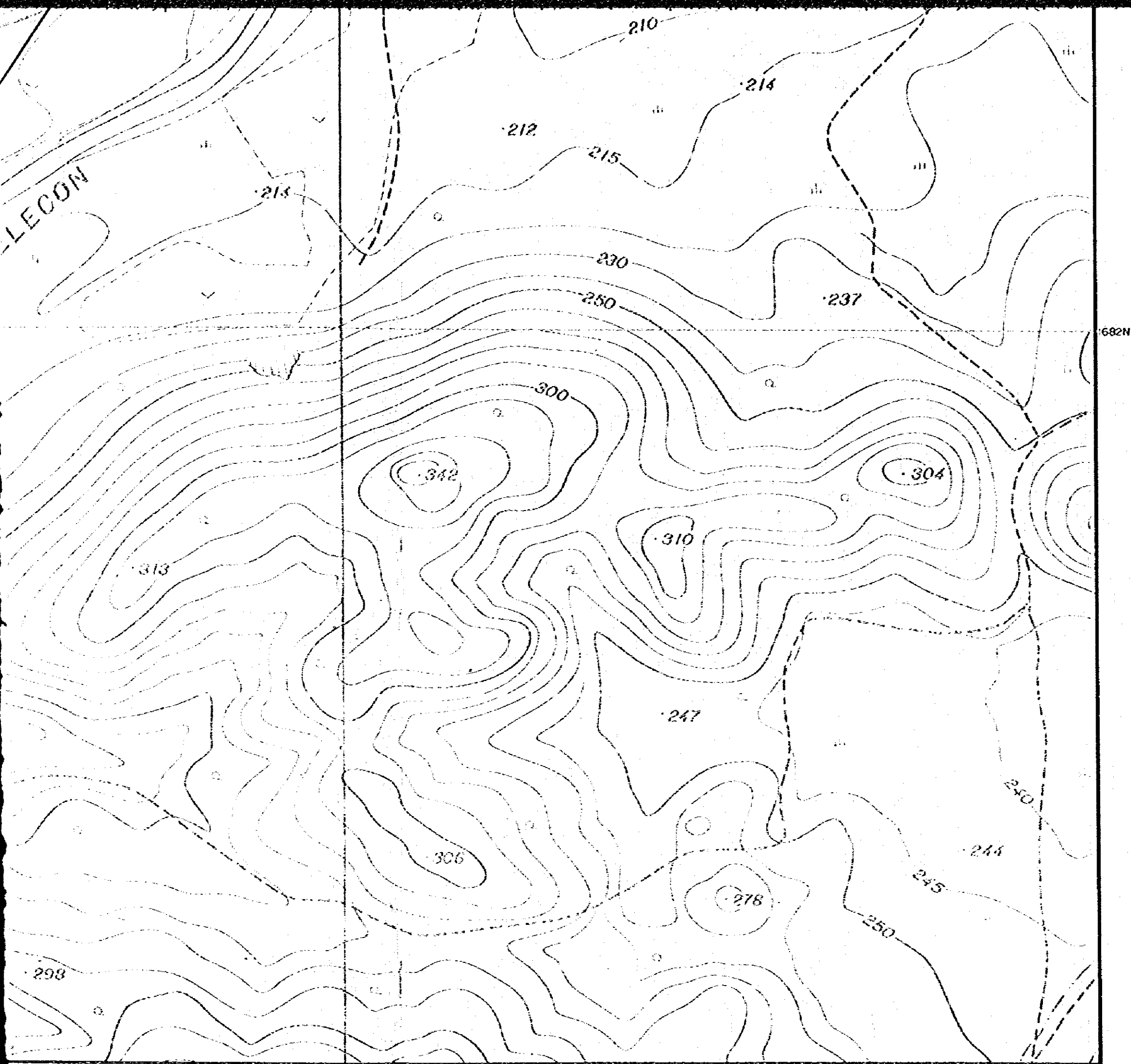


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GOVERNMENT OF JAPAN
FEBRUARY 1980
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No. 54 - 1

COORDINATION : 333.09E, 1682.17N

COLLAR ELEVATION : 407m

[illegible]

Core Rec.	Dep. th (m)	Symbol	Mineralization		Alteration						Fract & Vein	Original Rock				Color	Remarks
			Py	Cu	Zn	Sil	Ser	Cab	Chl	Lim		Arg	Name	Texture	Grain Size		
110	100	v										m-ord	por { oph	fin { med	ld	d-grn	ld size: #2-3 ^m /mm
		v										"	"	"	"	"	
		v										"	"	"	"	"	
		v										"	"	"	"	"	
		v										"	"	"	"	"	
		v										"	"	"	"	"	
		v										"	"	"	"	"	
		v										"	"	"	"	"	
		v										"	"	"	"	"	
		v										"	"	"	"	"	
120												m-lf	grn	fin		whf	115.8
												"	"	"		"	
												sh	band	fin		blk	119.4
												"	"	"	"	"	∠55°
												"	"	"	"	"	∠30°
												"	"	"	"	"	∠20°
												"	"	"	"	"	∠30°
												"	"	"	"	"	∠18°
												m-lfbr	brc	med		l-gry	130.8
												sh & m-lf oil	band	fin { med		blk { gry	132.2 alteration of sh & m-lf
140												"	"	"		"	∠30°
												"	"	"		"	∠50°
												"	"	"		"	
												"	"	"		"	
												"	"	"		"	
												"	"	"		"	
												"	"	"		"	
												"	"	"		"	
												"	"	"		"	
												"	"	"		"	
150												m-lfbr	brc	med		gry	1418 ∠40°
												"	"	"		"	
												sh	band	med		gry	148.5
												m-lfbr &	band	med		gry	149.5 ∠45°
												"	"	"		"	alteration of m-lfbr (90%) &

[illegible]

Rock	Pheno-cryst	Color	Remarks
fd	fd	d-grn	fd size - #2-3 ^m /m
3	*	*	
*	*	*	
	*	*	
	*	*	
	*	*	
	*	*	
	*	*	
	*	*	
		wht	116.8
		"	119.4
		blk	Z 55°
	*	*	Z 33°
	*	*	Z 20°
	*	*	Z 30°
	*	*	Z 18°
ed		l-gry	130.8
		blk	132.2
		gry	alternation of sh & m-fl
	*	*	Z 30°
	*	*	Z 50°
	*	*	1400-1420 sph diss
		gry	1448 Z 40°
		gry	1455
		gry	1495 Z 45°
		gry	alternation of m-fl & (90%) 8

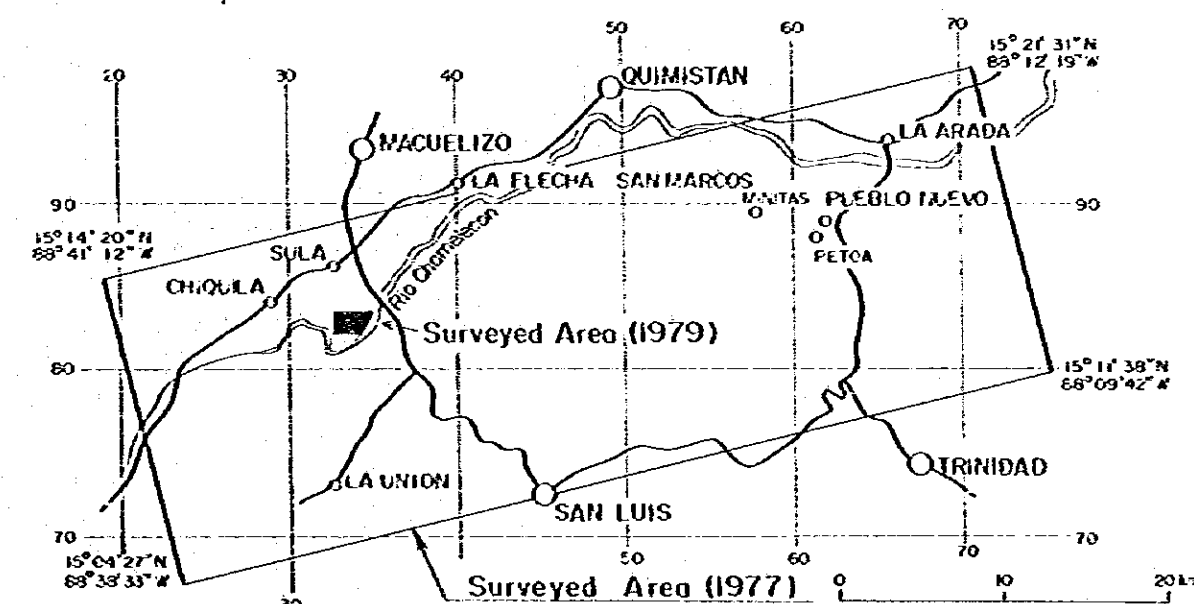
[illegible]

PL. II-2-1

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VOL. 4

GEOLOGICAL LOG OF DRILL HOLE IN THE VUELTAS DEL RIO SECTOR

No. 54-1



METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
GOVERNMENT OF JAPAN
FEBRUARY 1980
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Scale 1 : 200



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Core Rec.	Core Recovery	Texture
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
24	100	100
25	100	100
26	100	100
27	100	100
28	100	100
29	100	100
30	100	100
31	100	100
32	100	100
33	100	100
34	100	100
35	100	100
36	100	100
37	100	100
38	100	100
39	100	100
40	100	100
41	100	100
42	100	100
43	100	100
44	100	100
45	100	100
46	100	100
47	100	100
48	100	100
49	100	100
50	100	100
51	100	100
52	100	100
53	100	100
54	100	100
55	100	100
56	100	100
57	100	100
58	100	100
59	100	100
60	100	100
61	100	100
62	100	100
63	100	100
64	100	100
65	100	100
66	100	100
67	100	100
68	100	100
69	100	100
70	100	100
71	100	100
72	100	100
73	100	100
74	100	100
75	100	100
76	100	100
77	100	100
78	100	100
79	100	100
80	100	100
81	100	100
82	100	100
83	100	100
84	100	100
85	100	100
86	100	100
87	100	100
88	100	100
89	100	100
90	100	100
91	100	100
92	100	100
93	100	100
94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

No.54-2

COORDINATION : 333.52E, 1682.26N

COLLAR ELEVATION : 354m

Core Rec.	Symbol	Mineralization			Alteration					Fract & Vein	Original Rock				Color	Remarks	
		Py	Cu	Zn	Sil	Ser	Cab	Chl	Lim		Arg	Name	Texture	Grain Size			Pheno-cryst
0												soil				whl	weathered soil
												m-wlf	grn	med		purp brn	22 20~240 oxide - supergene zone
10																	
20																	
30												m-wlf	grn	med		whl purp gry	240 280~320 black mineral chalcoite diss
40												m-wlf	grn	med & cos		gry	318 265 350~367 sheared zone 372~378 sheared zone 360~382 black mineral diss chalcoite
50																	

Core Rec.	Symbol	Mineralization			Alteration					Fract & Vein	Original Rock				Color	Remarks
		Py	Cu	Zn	Sil	Ser	Cab	Chl	Lim		Arg	Name	Texture	Grain Size		
100	A										and	oph \$ por	fin	fd	d-grn	col vit rich
110	A															
	A															
	A															
	A															
	A															
	A															
	A															
	A															
	A															
	A															
120	O										m-wlf or m-lf	grn	med \$ cos		l-gry	168
	C															
	O															
	C															
	O															
	C															
	O															
	C															
	A															238
	A										and	oph \$ por	fin	fd	grn	
130	A															
	A															
	A															
	A															
	A															
	A															
	A															
	A															
	A															
	O															349
140	C										m-wlf	grn	med \$ cos		gry	
	O															
	A															3724
	A										and	oph por	fin	fd	grn	3874
	O										m-wlf or m-lfbr	brc	med \$ cos		gry	chilled margin wd 2cm
	O															
	O															
	O															
	A										and	oph por		fd	d-grn	4325
	A										m-lfbr and	brc	med		gry	452 460°
150	A										m-lfbr	brc	med \$ cos		gry	460
	A															
	A															
	A															
	A															

Core Rec.	Dep- th (m)	Symbol	Minerali- zation			Alteration						Fract & Vein	Original	
			Py	Cu	Zn	Sil	Ser	Cab	Chl	Lim	Arg		Name	Texture
200		A											m-lfr	brc
		A											"	"
		A											"	"
		A											"	"
		A											"	"
		A											"	"
		A											"	"
		A											"	"
		A											"	"
		A											"	"
210		A											m-nd	bnd
		V											m-nd	por
		V											s	oph
		V											"	"
		V											"	"
		V											"	"
		A											m-lfr	brc
		A											"	"
		A											"	"
		A											"	"
220		A											m-nd	oph
		V											m-lfr	brc
		V											m-nd	oph
		V											m-lfr	
		V											m-nd	oph
		A											m-lfr	
		V											m-nd	oph
		A											m-lfr	
		V											m-nd	oph
		V											"	"
230		V											"	"
		A											m-lfr	brc
		V											m-nd	poiki
		A											m-lfr	brc
		A											"	"
		V											m-nd	oph
		V											m-lfr	brc
		A											"	"
		V											m-nd	oph
		V											m-lfr	oph
240		A											m-nd	
		A											m-lfr	brc
		A											"	"
		V											m-nd	oph
		V											m-lfr	oph
		A											m-nd	
		A											m-lfr	brc
		A											"	"
		V											m-nd	oph
		V											"	"
250		V										m-nd	oph	

Rock		Color	Remarks
Grain Size	Pheno-cryst		
fin	fd	d-grn	col vit rich
"	"	"	
"	"	"	
"	"	"	
"	"	"	
"	"	"	
"	"	"	
"	"	"	
med s ss		f-gry	116.8
"		"	
"		"	
"		"	
"		"	
"		"	
fin	fd	grn	23.8
"	"	"	
"	"	"	
"	"	"	
"	"	"	
"	"	"	
med s ss		gry	134.9
"		"	
fin	fd	grn	37.24
"		"	38.74
med s ss		gry	chilled margin wd. 2 cm
"		"	
"		"	
"	fd	f-grn	143.25
med		gry	145.2 260°
"		"	145.0
med s ss		gry	
"		"	

Core Rec.	Dep -th (m)	Symbol	Minerali- zation			Alteration					Fract & Vein	Original Rock				Color	Remarks
			Py	Cu	Zn	Sil	Ser	Cab	Chl	Lim		Arg	Name	Texture	Grain Size		
200		A										m-ftc	brc	fin		l-grn	trc - 30 ^{cm} size sub round
		A										"	"	"		"	
		A										"	"	"		"	
		A										"	"	"		"	
		A										"	"	"		"	
		A										"	"	"		"	
		A										"	"	"		"	
		A										"	"	"		"	
		A										"	"	"		"	
		A										"	"	"		"	
210		A										m-ftc	bnd	fin		grn	208.4 250° 209.3
		V										m-ond	por oph	fin		d-gry	
		V										"	"	"		"	
		V										"	"	"		"	
		V										"	"	"		"	
		V										"	"	"		"	
		A										m-ftc	brc	med		l-grn	214.3 trc - 5 ^{cm} size ang fl. and
		A										"	"	"		"	
		A										"	"	"		"	
		A										"	"	"		"	
220		V										m-ond	oph	fin		grn	219.0 219.6
		A										m-ftc	brc	med		l-grn	221.0 260°
		V										m-ond	oph	fin		d-grn	
		V										"	"	"		"	
		V										"	"	"		"	
		A										m-ftc					223.2 250°
		V										m-ond	oph	fin	fd	grn	223.7
		A										m-ftc		chl			225.0
		V										m-ond	oph	fin		gy-grn	225.8
		V										"	"	"		"	
230		V										"	"	"		"	
		V										"	"	"		"	
		A										m-ftc	brc	fin		grn	231.7 232.1
		V										m-ond	poiki	fin		grn	
		A										m-ftc	brc			grn	235.8
		V										"	"	"		"	
		V										m-ond	oph			"	237.6
		A										m-ftc	brc	fin		"	trc - 2 ^{cm} x 3 ^{cm} sub round
		A										"	"	"		"	
		V										m-ond	oph	fin		"	241.3
240		A										m-ftc	oph	fin		"	245.0-247.8 copy diss
		V										m-ond				"	244.0
		A										m-ftc	brc			"	245.0 260°
		A										"	"	"		"	
		V										m-ond	oph	fin		"	247.8 250° col vit rich
		V										"	"	"		"	
		V										"	"	"		"	
		V										"	"	"		"	
		V										"	"	"		"	
		V										"	"	"		"	
250																250.3	

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國際協力事業

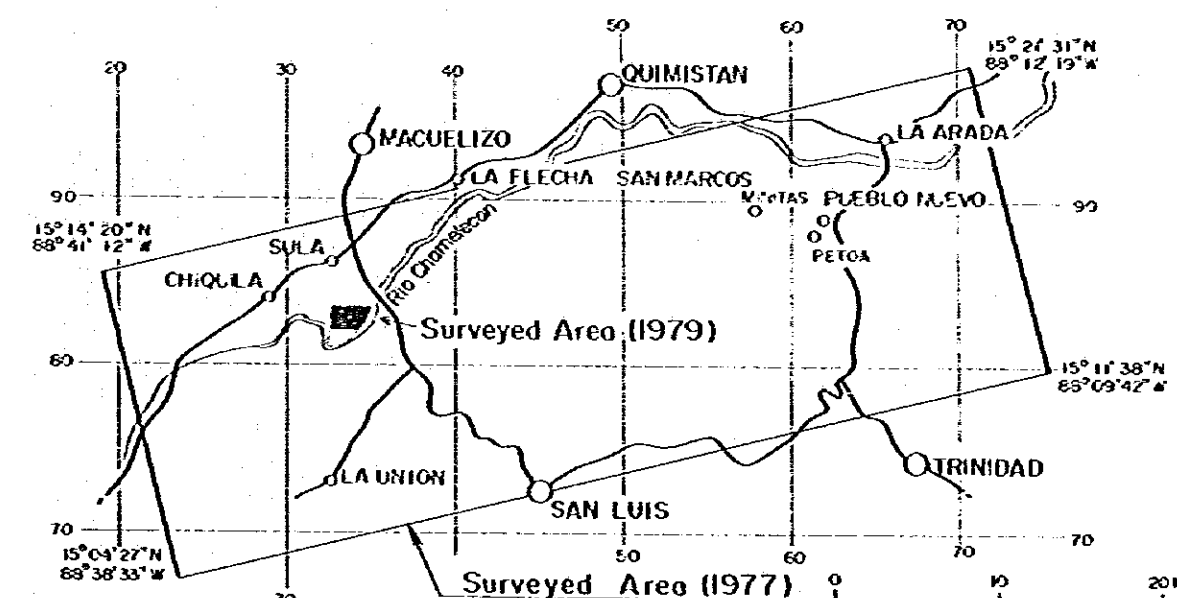
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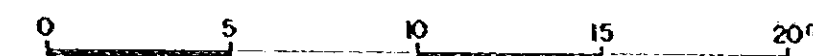
GEOLOGICAL LOG OF DRILL HOLE IN THE VUELTAS DEL RIO SECTOR

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GOVERNMENT OF JAPAN
FEBRUARY 1980
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Scale 1 : 200



INDEX

[illegible]

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Core Rec.	Core Recovery				Texture
Symbol & Original Rock	recovered	lost			aph. ophanitic
	soil	soil			brc. brecciated
	clay	clay			grn. granular
	gravel	gravel			lom. lamination
	sand	sand			por. porphyritic
	m-tf.	meta tuff		Grain Size	
	m-lfbr.	meta tuffbreccia		v fin.	very fine grain
	m-wlf.	meta welded tuff		fin.	fine grain
	sh.	shale & muddy tuff		med.	medium grain
	ml-and.	meta andesite		cos.	coarse grain
	por-and.	porphyrite & andesite		Phenocryst	
		clay zone		cal.	calcite
Mineralization	Py.	pyrite		chl.	chlorite
	Cu	copper		cry.	clay
	Zn	zinc		fd.	feldspar
Alteration				hb.	hornblende
	Sil.	silicification		qz.	quartz
	Ser.	sericitization		Color	
	Carb.	carbonatization		d.	dark
	Chl.	chloritization		l.	light
	Lim.	limonitization		blk.	black
	Hem.	hematization		brn.	brown
	Arg.	argillization		grn.	green
Mineralization grade		weak, moderate, strong		gry.	grey
		very strong		purp.	purple
Alteration grade		strong		wh.	white
		moderate		yel.	yellow
		weak			
		very weak			
Fract & Vein		fracture & crushed zone			
		clay zone			
		brecciated zone			
Remark					
	and.	andesite		py.	pyrite
	ang.	angular		qtz.	quartzite
	brc.	breccia		qz.	quartz
	cal.	calcite		sph.	sphalerite
	cc.	chalcocite		tf.	tuff
	ccp.	chalcopyrite		vt.	veinlet
	decom.	decomposed		wd.	width
	diss.	disseminate			
	ls.	limestone			
	pheno.	phenocryst			