

Core Rec.	Original Rock			Remarks
	Grain Size	Pheno-cryst	Color	
200	fin	fd	l-grn	rhylitic
	"	"	"	225°
	"	"	"	220° py vein wd 3cm
210	fin	hb fd	grn	brc - max 10cm 1-2cm sub cng
220	fin		l-grn	rhylitic
231	fin	hb fd	grn	
240	fin		l-gry	rhylitic etc.
250	hb			

Core Rec.	Symbol	Mineralization			Alteration						Fract & Vein	Original Rock				Color	Remarks
		Py	Cu	Zn	Sil	Ser	Cal	Chl	Lim	Arg		Name	Texture	Grain Size	Pheno-cryst		
200												m-fibr	brc	fin		gry whl	brc - rhylitic rock
210																	
220												m-fibr	brc	fin		gry whl	brc - rhylitic rock
230																	
240												m-ord	scr	fin	fd hb	grn	2426
250																	2507

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GEOLOGICAL SURVEY
OF
THE WESTERN AREA, REPUBLIC OF HONDURAS

VOL. 4

GEOLOGICAL LOG OF DRILL HOLE
IN THE VUELTAS DEL RIO SECTOR

No. 54-3

METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
GOVERNMENT OF JAPAN
FEBRUARY 1980
prepared by MESCO, Inc.

Scale 1:200

0 5 10 15 20m

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Core Rec. Core Recovery Texture

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Core Rec	Original Rock		Color	Remarks
	Grain Size	Pheno-cryst		
rc	cos	fd	gry wh	250° 105.0 ~ 106.0 py diss along foliation
				1096 ~ 1098 qtz vein wh ccp
rc	med	grn	grn	123.0 qtz vein wd. 3 ^{cm} dp 75°
				grades cos → fin 5~10 ^{cm} L12° order
	med	wh	wh	140.5 41.6 four goege & brc

Core Rec	Dep-th (m)	Symbol	Mineralization							Alteration					Original Rock				Color	Remarks				
			Py	Cu	Zn	Sil	Ser	Cal	Chl	Lim	Arg	Fract & Vein	Name	Texture	Grain Size	Pheno-cryst								
	200																		m-ffr	brc	med	fd	l-grn	brc - 5~8 ^{cm} size sub ang
	210																		m-ord	por	med	fd	grn	2010 fd 2~3 ^m /m size
	220																						grn	
	230																		m-ffr	brc	fin	fd	l-gry	228.2
	240																		m-ffr	oph	fin		l-gry	
	250																							250.4

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GEOLOGICAL SURVEY
OF
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VOL. 4

GEOLOGICAL LOG OF DRILL HOLE
IN THE VUELTAS DEL RIO SECTOR

No. 54-4

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METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
GOVERNMENT OF JAPAN
FEBRUARY 1980
prepared by MESCO, Inc.

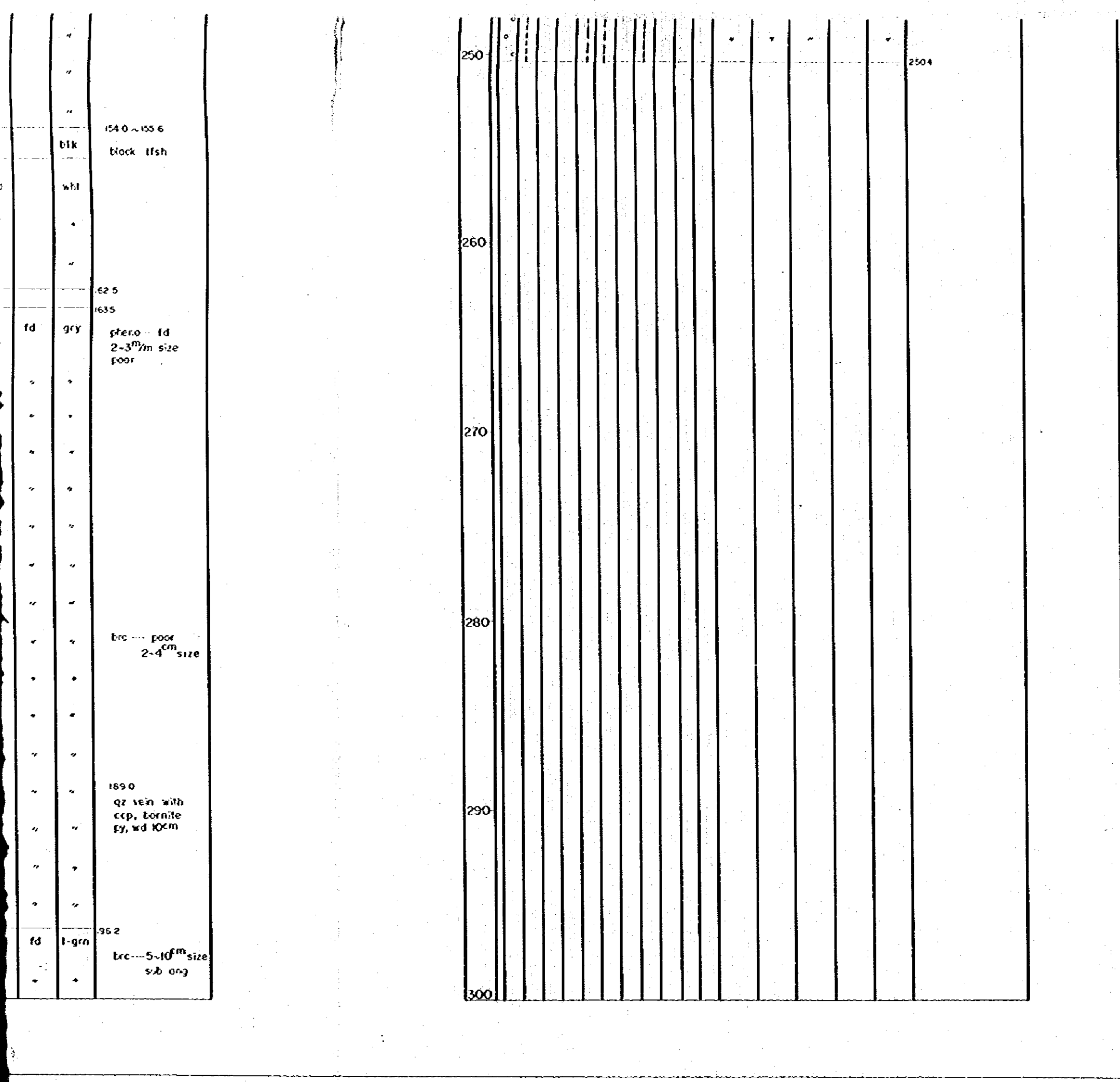
Scale 1:200

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Core Rec Core Recovery Texture

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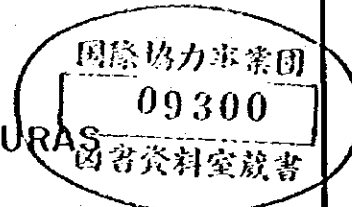
Core Rec.	Core Recovery	Texture
Symbol & Original Rock	recovered lost soil clay gravel sand m-lf m-lfbc m-wlf sh al-and por-and clay zone	oph. ophanitic brc. brecciated grn. granular lam. lamellar por. porphyritic Grain Size v fin. very fine grain fin. fine grain med. medium grain cos. coarse grain Phenocryst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



Rock	Pheno-cryst	Color	Remarks
ed		gry	016 faint goeite & brc
		l-grn	040 py diss along foliation
		l-grn	048
		l-grn	080
		l-grn	272 445° py diss along foliation
		l-grn	000°
		grn	036 430°
			450°
			brc - 2-5 ^{cm} size sub org and sil rock
			brc - max 3 ^{cm} size sub org

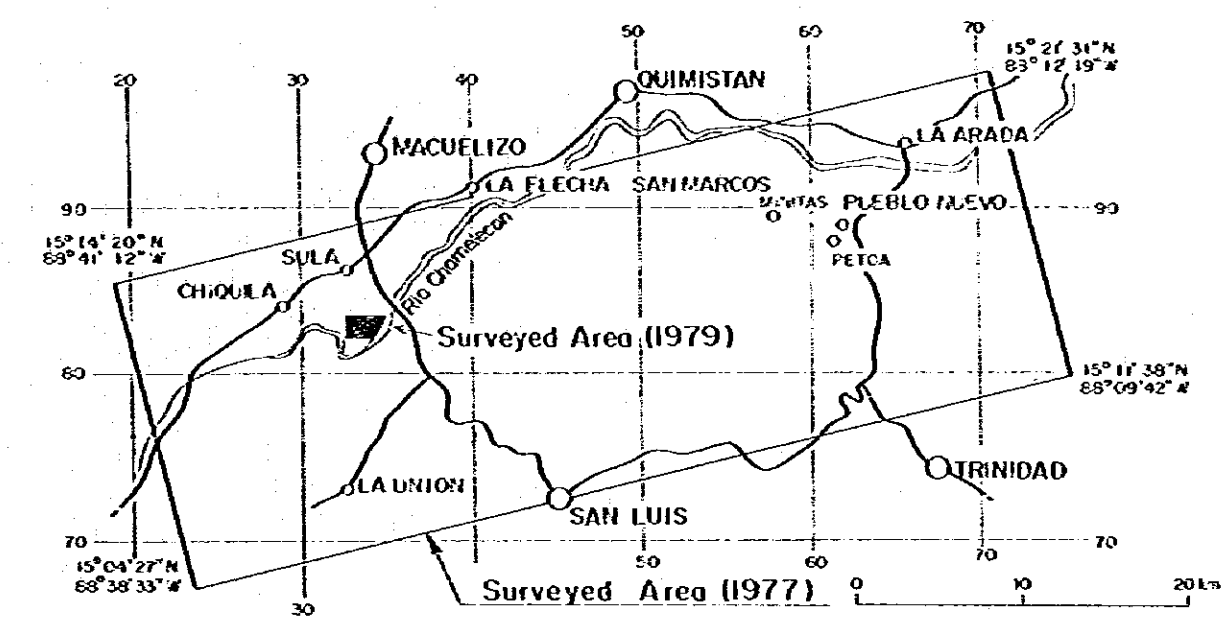
Core Rec.	Mineralization	Alteration	Fract & Vein	Original Rock				Color	Remarks
				Name	Texture	Grain Size	Pheno-cryst		
200				m-and	por	med	fd	red purp	fd - 2-3 ^{mm} size
210									
220				m-ulf	eph	fin		gry	256 283
220				m-and	por	fin	fd	gry	2214
220				sh		fin		blk	2240 2247
220				m-lltr	brc	fin		gry	
230									
240				m-and	por		fd	purp	2395 fd - 1-2 ^{mm} size
250									2503

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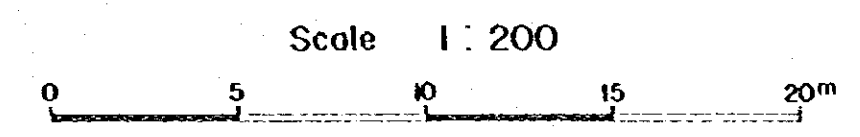


GEOLOGICAL LOG OF DRILL HOLE
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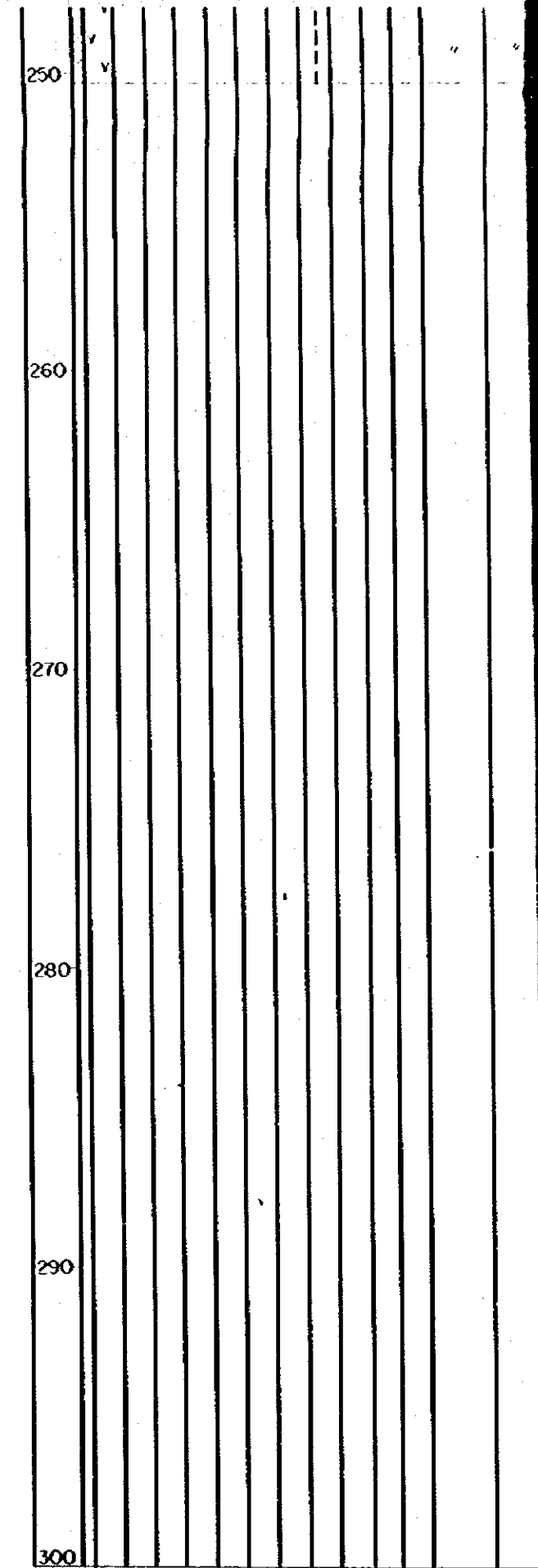
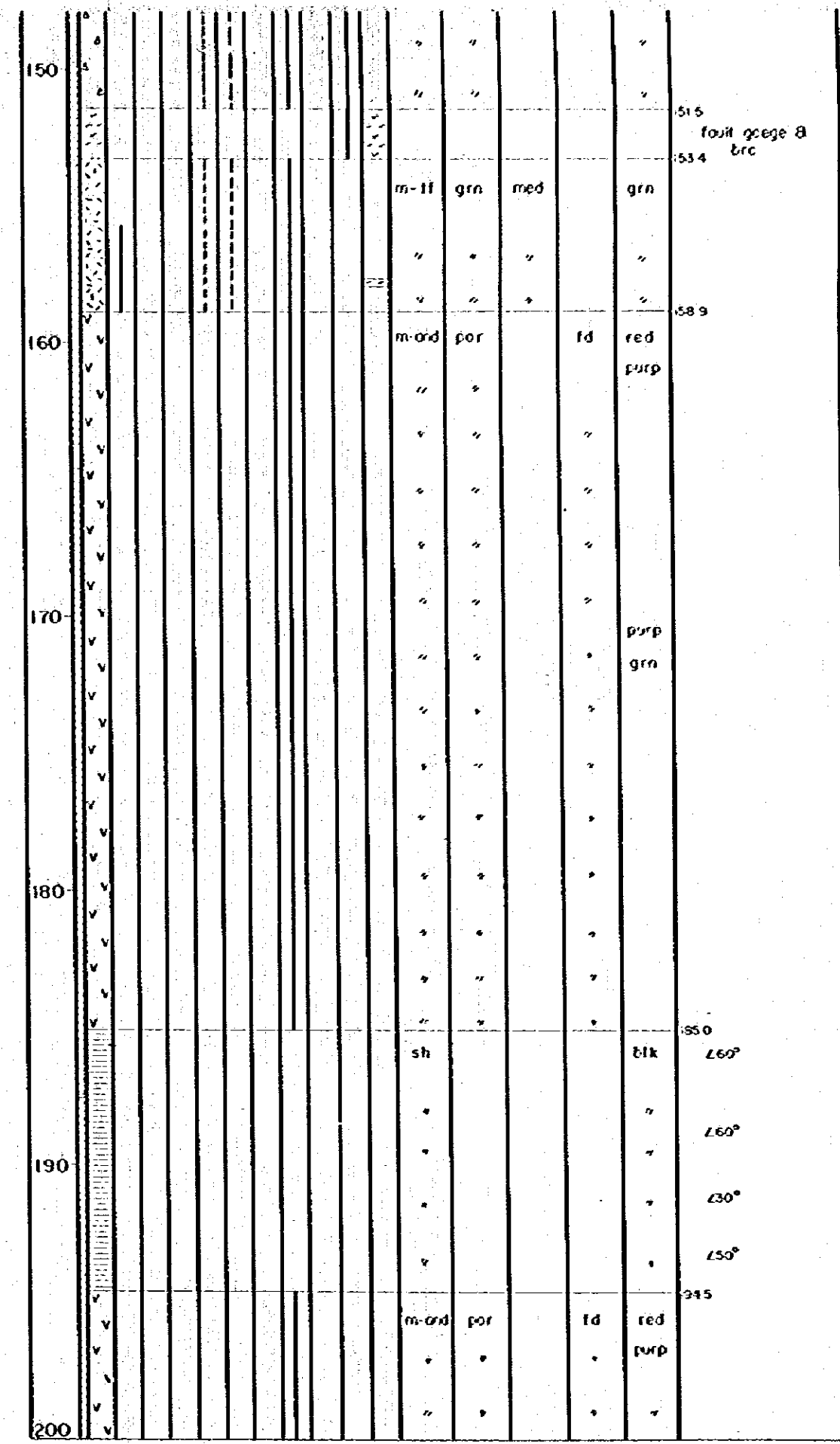
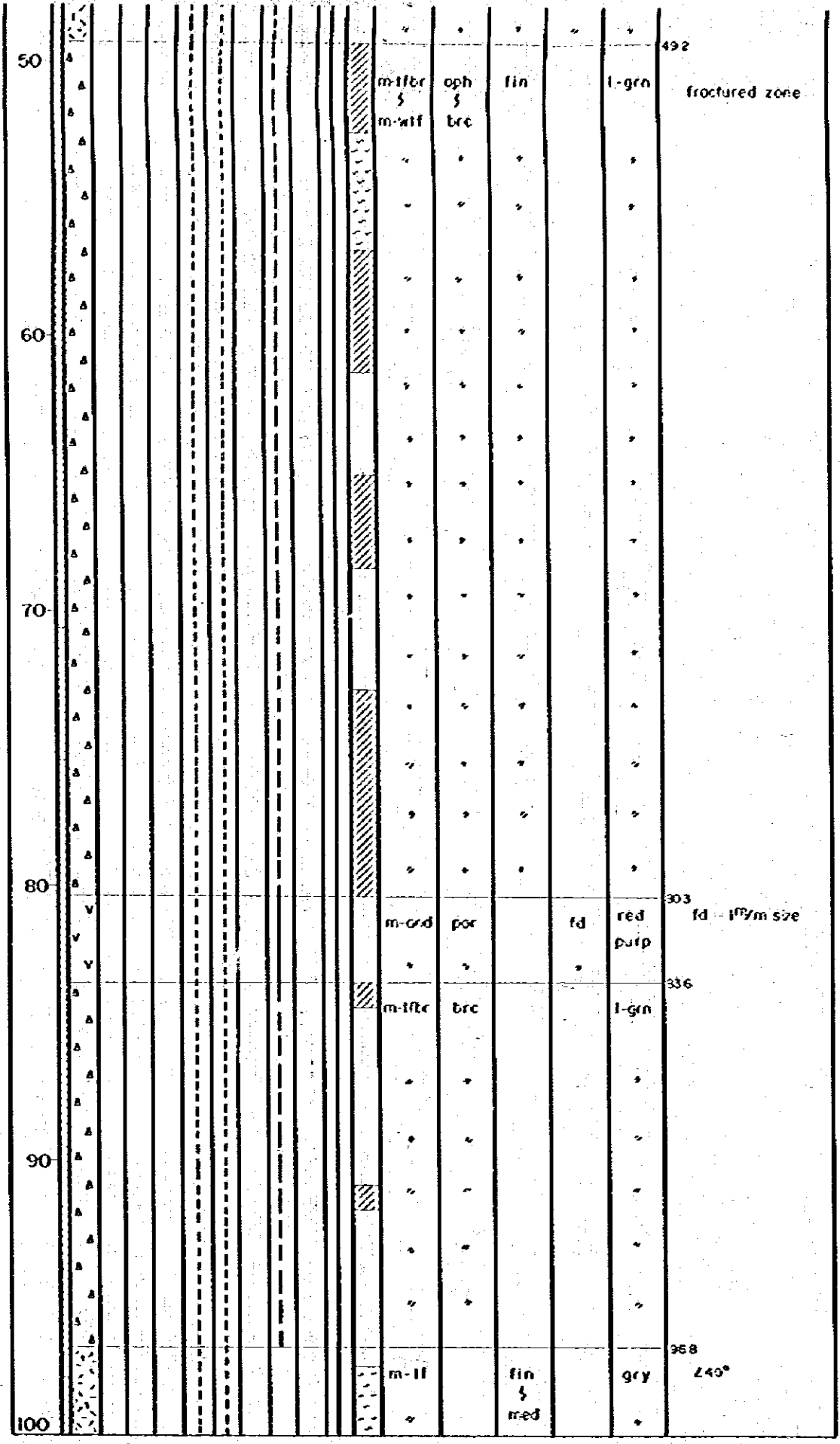


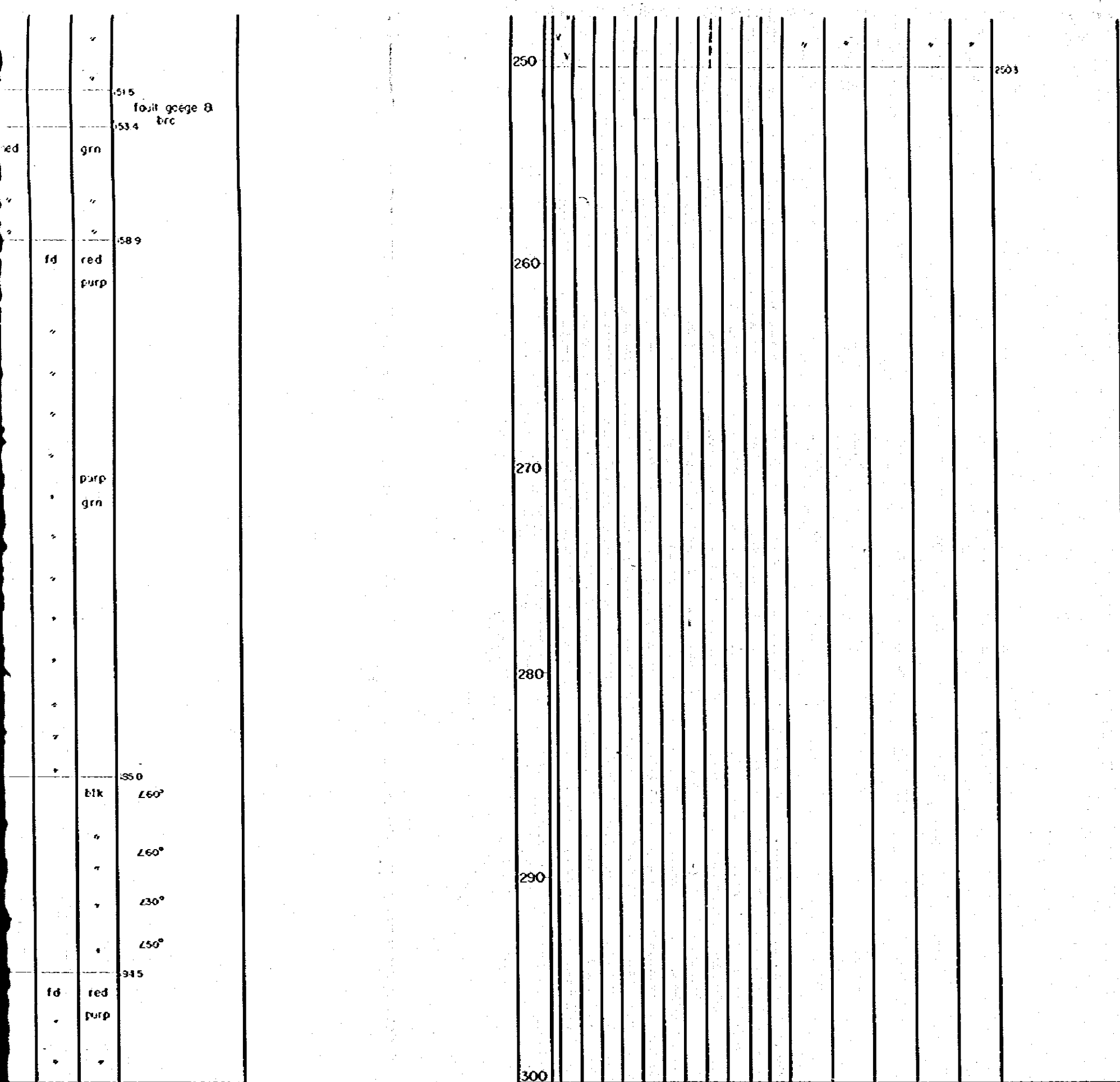
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Core Rec. Core Recovery Texture





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

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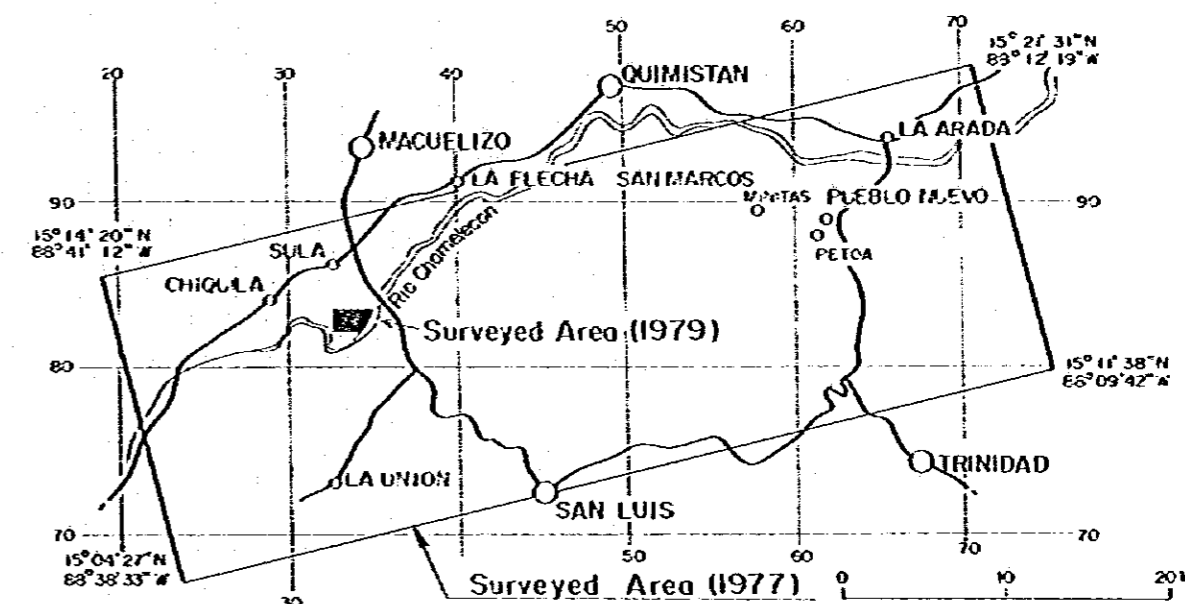
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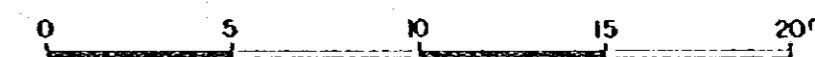
GEOLOGICAL LOG OF DRILL HOLE
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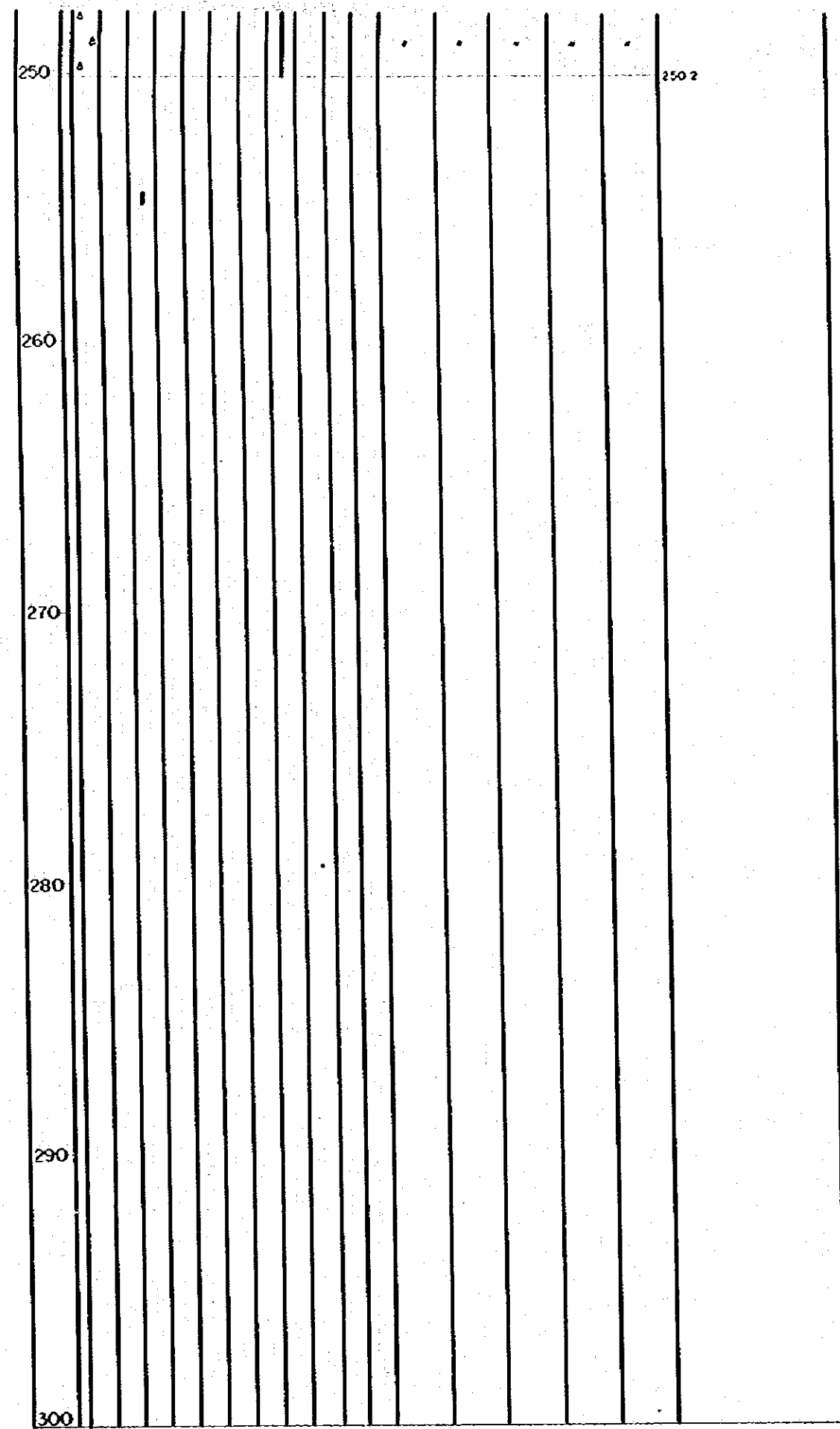
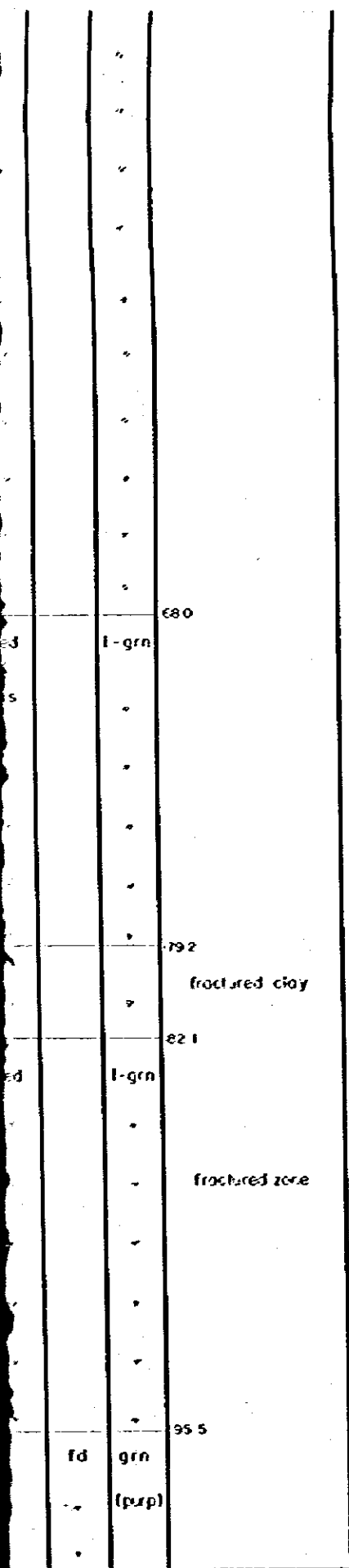


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Core Rec. Core Recovery Texture

Rock		Color	Remarks
Grain Size	Pheno-cryst		
fin	fd	gry	rhylitic rock
"	"	wht	450°
"	"	"	445°
"	"	"	1103~1127 fracture
fin	fd	gry	rhylitic rock
fin	fd	l-grn	andesitic
med	l-grn	grn	bre- 1-2cm sub eng
"	"	"	1450 qz vein with py wd 2cm

Core Rec.	Symbol	Mineralization							Alteration					Fract & Vein	Original Rock				Color	Remarks
		Py	Cu	Zn	Sil	Ser	Chl	Lim	Arg	Name	Texture	Grain Size	Pheno-cryst		Color					
200														m-ond	por	fin	fd	grn	pheno-fd 2~3 ^m /m size	
210																				
220														m-ond	por	fin	fd	grn		
230																				
240														m-ffbr	por	med	fd	d-grn	2384 andesitic ffbr	
250																			2439 ccp dss fd--5 ^m /m size 2502	



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Core Rec.	Core Recovery	Texture
Symbol & Original Rock	recovered lost soil soil clay clay gravel gravel sand sand m-lf. meta tuff m-lfbc meta tuff breccia m-wlf. meta welded tuff sh. shale & muddy tuff ml-and. meta andesite por-and porphyrite & andesite clay zone	aphanitic brecciated granular lamellar porphyritic Grain Size very fine grain fine grain medium grain coarse grain Phenocryst calcite chlorite clay feldspar hornblende quartz Color dark light black brown green grey purple white yellow
Mineralization	Py. pyrite Cu. copper Zn zinc	
Alteration	Sil. silicification Ser. sericitization Carb. carbonatization Chl. chloritization Lim. limonitization Hem. hematization Arg. argillization	
Mineralization grade	weak, moderate, strong very strong strong moderate weak very weak	
Alteration grade	strong moderate weak very weak	
Fract & Vein	fracture & crushed zone clay zone brecciated zone	
Remark	and. andesite ang. angular br. breccia cal. calcite cc chalcocite ccp chalcopyrite decomp. decomposed diss. disseminate ls limestone phero. phenocryst py. pyrite qtz. quartzite qz. quartz sph. sphaerite lf. tuff vlt. veinlet wd. width	

Original Rock		Color	Remarks
Grain Size	Pheno-cryst		
cos		brn	
cos		brn	022 sub ang ls brn and rarely matrix--cos sand
cos		brn	53 260 sub ang gry ls abundant grn and rarely
cos		brn	314 316 matrix-brn cos sand trc max 50 ^m size sub ang gry ls, grn and
cos		brn	360 gry ls > grn and > 190 ^m (8 1/4) 3.5 ^{cm} size
cos		brn	404 407 418 426 gry ls sub ang 1-5 ^{cm} pettle, ls and sub ang 5-15 ^{cm} size grn, brn and gry ls matrix--brn cos sand
cos		brn	506

Core Rec.	Symbol	Mineralization			Alteration					Fract & Vein	Original Rock				Color	Remarks	
		Py	Cu	Zn	Sil	Ser	Cab	Chi	Lim		Arg	Name	Texture	Grain Size			Pheno-cryst
200												m-if	grn	fin med	fd	gry	
203.2												m-and	pcr	fin	fd	d-gry	203.2
210																	
211.8												m-if	grn	fin med	fd	gry grn	211.8 260°
220																gry	
224.8												m-and	pcr	fin med	fd	grn l-grn	224.8 fd -- 5 ^m size
230																	
240																	py very rare
250												m-and	pcr	fin	fd	l-grn	

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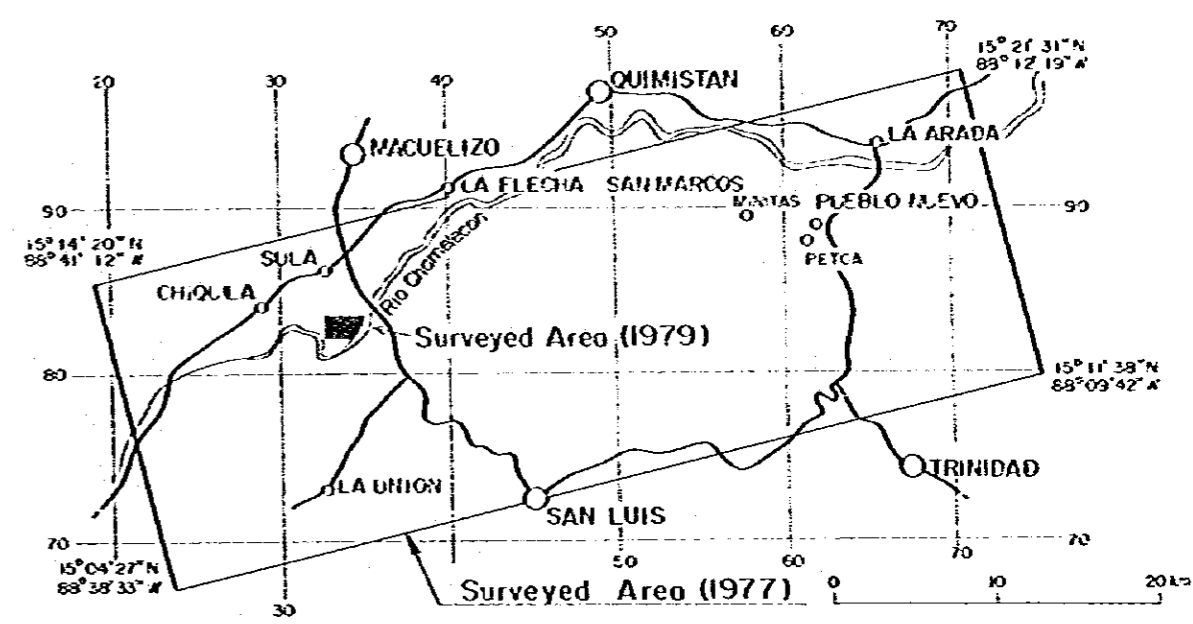
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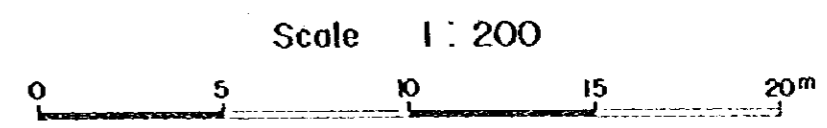
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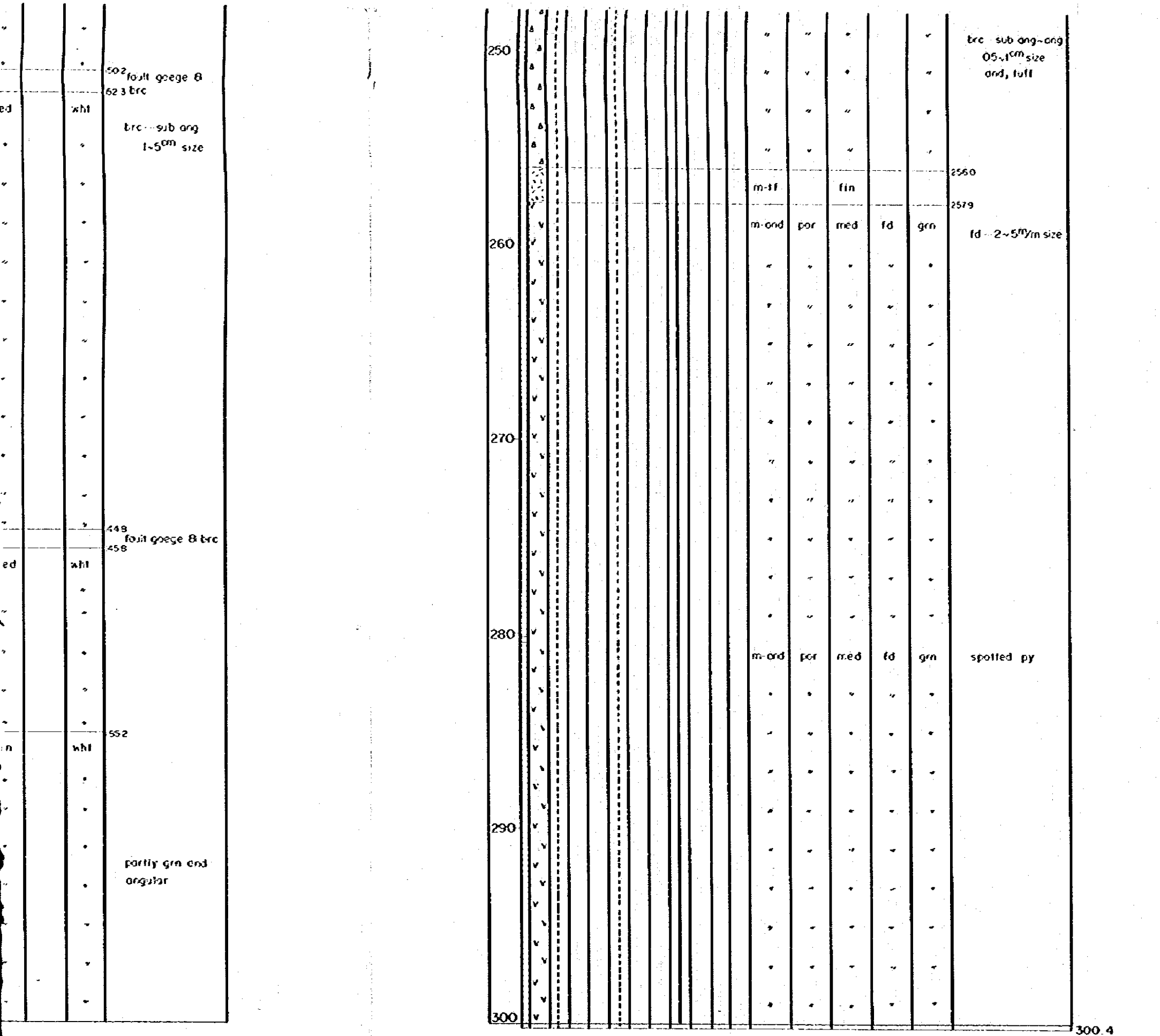
COORDINATION : 335.40E, 1683.24N

COLLAR ELEVATION : 201m

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	fin	brn	19	fin sand & silt
																19	silt rich sand			
																20	2-10 ^{cm} size blk ls			
																46	brn and, q'te ls			
																51	blk ls > diabase rare q'te, 2-10 ^{cm} roundness good			
																59	pettle of deccm rock			
																80	pettle - and			
																103	pettle - ls, q'te			
																110	pettle - ls, q'te			
																125	blk ls, round good			
10																soil	d-brn	166	included soil clay	
																177	pettle sub ang rounded 0.5-5cm and, ls, lf, sl			
																186	sub ang, ls			
																196	sub ang, ls			
																208	matrix sub ang			
																220	q'te, and			
																227	sub ang wht silt rock			
																247	included loam			
																275	included clay			
																279	matrix - blk ls grn and, gry q'te blk and, sub rounded			
20																loam	gry	300	fin sand loam	
																309	pettle 3-10 ^{cm} size matrix - blk ls > q'te > and sub ang - sub rounded			
																365	w/ls pettle 0.5-2 ^{cm} size			
																425	included cos sand			
																435	deccm and matrix - brn sand			
																449	sub ang - sub rounded			
																460	sub ang - sub rounded			
																481	sub ang - sub rounded			
																505	deccm and			
																506	deccm and			
30																loam	brn	275	included clay	
																279	matrix - blk ls grn and, gry q'te blk and, sub rounded			
																300	fin sand loam			
																309	pettle 3-10 ^{cm} size matrix - blk ls > q'te > and sub ang - sub rounded			
																365	w/ls pettle 0.5-2 ^{cm} size			
																425	included cos sand			
																435	deccm and matrix - brn sand			
																449	sub ang - sub rounded			
																460	sub ang - sub rounded			
																481	sub ang - sub rounded			
40																sand	cos	410	w/ls pettle 0.5-2 ^{cm} size	
																425	included cos sand			
																435	deccm and matrix - brn sand			
																449	sub ang - sub rounded			
																460	sub ang - sub rounded			
																481	sub ang - sub rounded			
																505	deccm and			
																506	deccm and			
																521	deccm and			
																522	deccm and			
50																sand	fin	481	sub ang - sub rounded	
																505	deccm and			
																506	deccm and			
																521	deccm and			
																522	deccm and			

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						
100																sand	cos	brn	024	
																clay	d-gry	034	pettle sub ang, 3 ^{cm} size deccm and, ls	
																sand	cos	gry	065	grn and sub ang
																gravel	gry	070	grn and sub ang	
																clay	brn	110	deccm and	
																gravel	brn	116	deccm and	
																clay	blk	152	sub ang wht silt rock	
																sand	cos	d-gry	245	pettle q'te, and sub ang
																gravel	gry	277	matrix - blk ls grn and, gry q'te blk and, sub rounded	
																m-lf	grn	fin	337	sub ang - sub rounded
110																clay	brn	110	deccm and	
																gravel	brn	116	deccm and	
																clay	blk	152	sub ang wht silt rock	
																sand	cos	d-gry	245	pettle q'te, and sub ang
																gravel	gry	277	matrix - blk ls grn and, gry q'te blk and, sub rounded	
																m-lf	grn	fin	337	sub ang - sub rounded
																sand	cos	gry	410	w/ls pettle 0.5-2 ^{cm} size
																sand	cos	gry	425	included cos sand
																gravel	gry	435	deccm and matrix - brn sand	
																sand	cos	grn	449	sub ang - sub rounded
120																soil	d-brn	166	included soil clay	
																177	pettle sub ang rounded 0.5-5cm and, ls, lf, sl			
																186	sub ang, ls			
																196	sub ang, ls			
																208	matrix sub ang			
																220	q'te, and			
																227	sub ang wht silt rock			
																247	included loam			
																275	included clay			
																279	matrix - blk ls grn and, gry q'te blk and, sub rounded			
130																loam	brn	275	included clay	
																279	matrix - blk ls grn and, gry q'te blk and, sub rounded			
																300	fin sand loam			
																309	pettle 3-10 ^{cm} size matrix - blk ls > q'te > and sub ang - sub rounded			
																365	w/ls pettle 0.5-2 ^{cm} size			
																425	included cos sand			
																435	deccm and matrix - brn sand			
																449	sub ang - sub rounded			
																460	sub ang - sub rounded			
																481	sub ang - sub rounded			
505	deccm and																			
140																sand	cos	410	w/ls pettle 0.5-2 ^{cm} size	
																425	included cos sand			
																435	deccm and matrix - brn sand			
																449	sub ang - sub rounded			
																460	sub ang - sub rounded			
																481	sub ang - sub rounded			
																505	deccm and			
																506	deccm and			
																521	deccm and			
																522	deccm and			
150																sand	fin	481	sub ang - sub rounded	
																505	deccm and			
																506	deccm and			
																521	deccm and			
																522	deccm and			

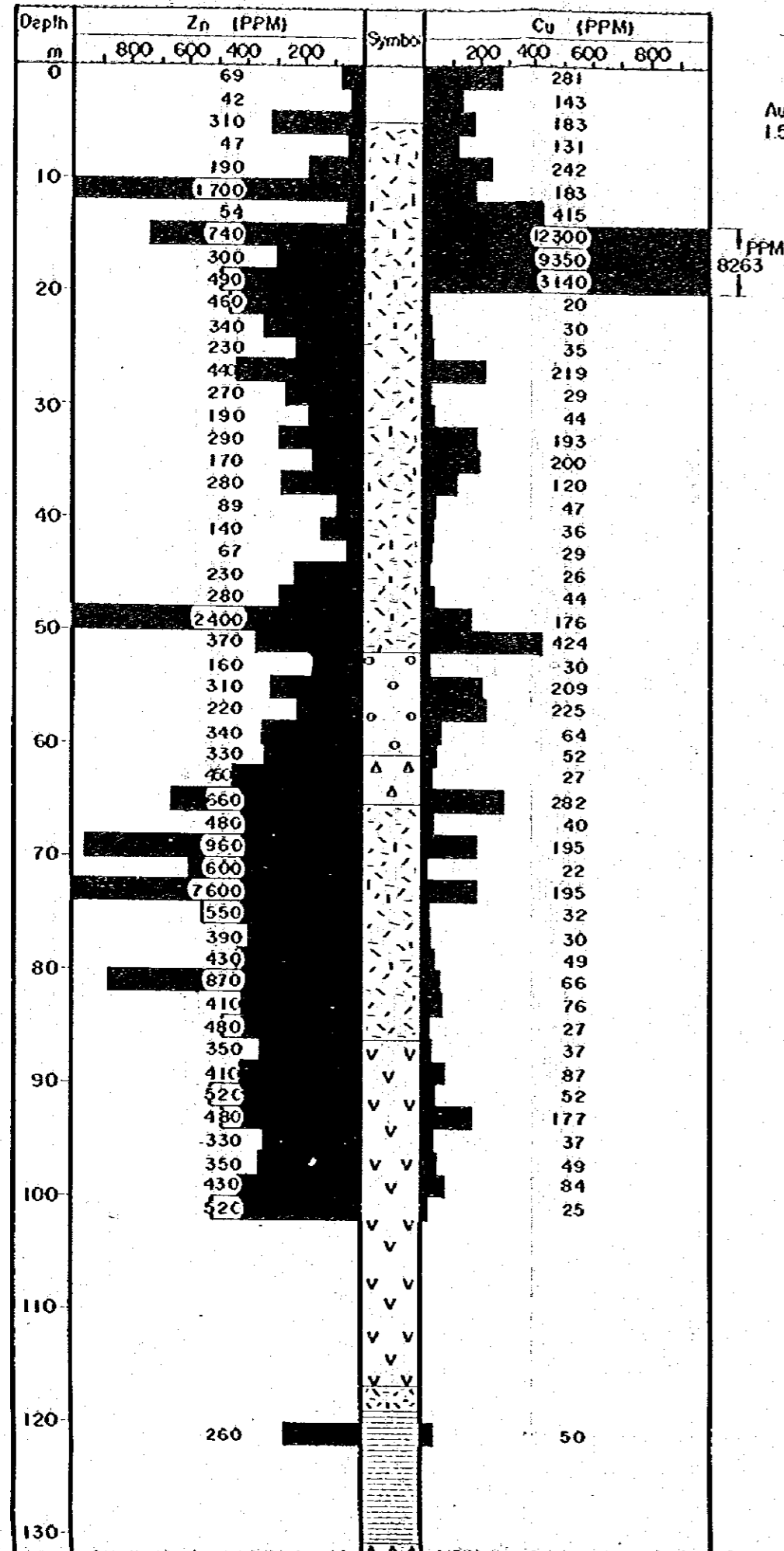
Core Rec.	Symbol	Mineralization		Alteration						Fract & Vein		Original Rock				Color	Remarks			
		Py	Cu	Zn	Sil	Ser	Cab	Chl	Lim	Arg	Name	Texture	Grain Size	Pheno-cryst						
200																m-lf	gry	305	clayey	
																337	matrix - blk ls grn and, gry q'te blk and, sub rounded			
																365	fin sand loam			
																365	pettle 3-10 ^{cm} size matrix - blk ls > q'te > and sub ang - sub rounded			
																410	w/ls pettle 0.5-2 ^{cm} size			
																425	included cos sand			
																435	deccm and matrix - brn sand			
																449	sub ang - sub rounded			
																460	sub ang - sub rounded			
																481	sub ang - sub rounded			
210																clay	brn	110	deccm and	
																gravel	brn	116	deccm and	
																clay	blk	152	sub ang wht silt rock	
																sand	cos	d-gry	245	pettle q'te, and sub ang
																gravel	gry	277	matrix - blk ls grn and, gry q'te blk and, sub rounded	
																m-lf	grn	fin	337	sub ang - sub rounded
																sand	cos	gry	410	w/ls pettle 0.5-2 ^{cm} size
																sand	cos	gry	425	included cos sand
																gravel	gry	435	deccm and matrix - brn sand	
																sand	cos	grn	449	sub ang - sub rounded
220																soil	d-brn	166	included soil clay	
																177	pettle sub ang rounded 0.5-5cm and, ls, lf, sl			
																186	sub ang, ls			
																196	sub ang, ls			
																208	matrix sub ang			
																220	q'te, and			
																227	sub ang wht silt rock			
																247	included loam			
																275	included clay			
																279	matrix - blk ls grn and, gry q'te blk and, sub rounded			
230																loam	brn	275	included clay	
																279	matrix - blk ls grn and, gry q'te blk and, sub rounded			
																300	fin sand loam			
																309	pettle 3-10 ^{cm} size matrix - blk ls > q'te > and sub ang - sub rounded			
																365	w/ls pettle 0.5-2 ^{cm} size			
																425	included cos sand			
																435	deccm and matrix - brn sand			
																449	sub ang - sub rounded			
																460	sub ang - sub rounded			
																481	sub ang - sub rounded			
505	deccm and																			
240																sand	cos	410	w/ls pettle 0.5-2 ^{cm} size	
																425	included cos sand			
																435	deccm and matrix - brn sand			
																449	sub ang - sub rounded			
																460	sub ang - sub rounded			
																481	sub ang - sub rounded			
																505	deccm and			
																506	deccm and			
																521	deccm and			
																522	deccm and			
250																sand	fin	481	sub ang - sub rounded	
																505	deccm and			
																506	deccm and			
																521	deccm and			
																522	deccm and			



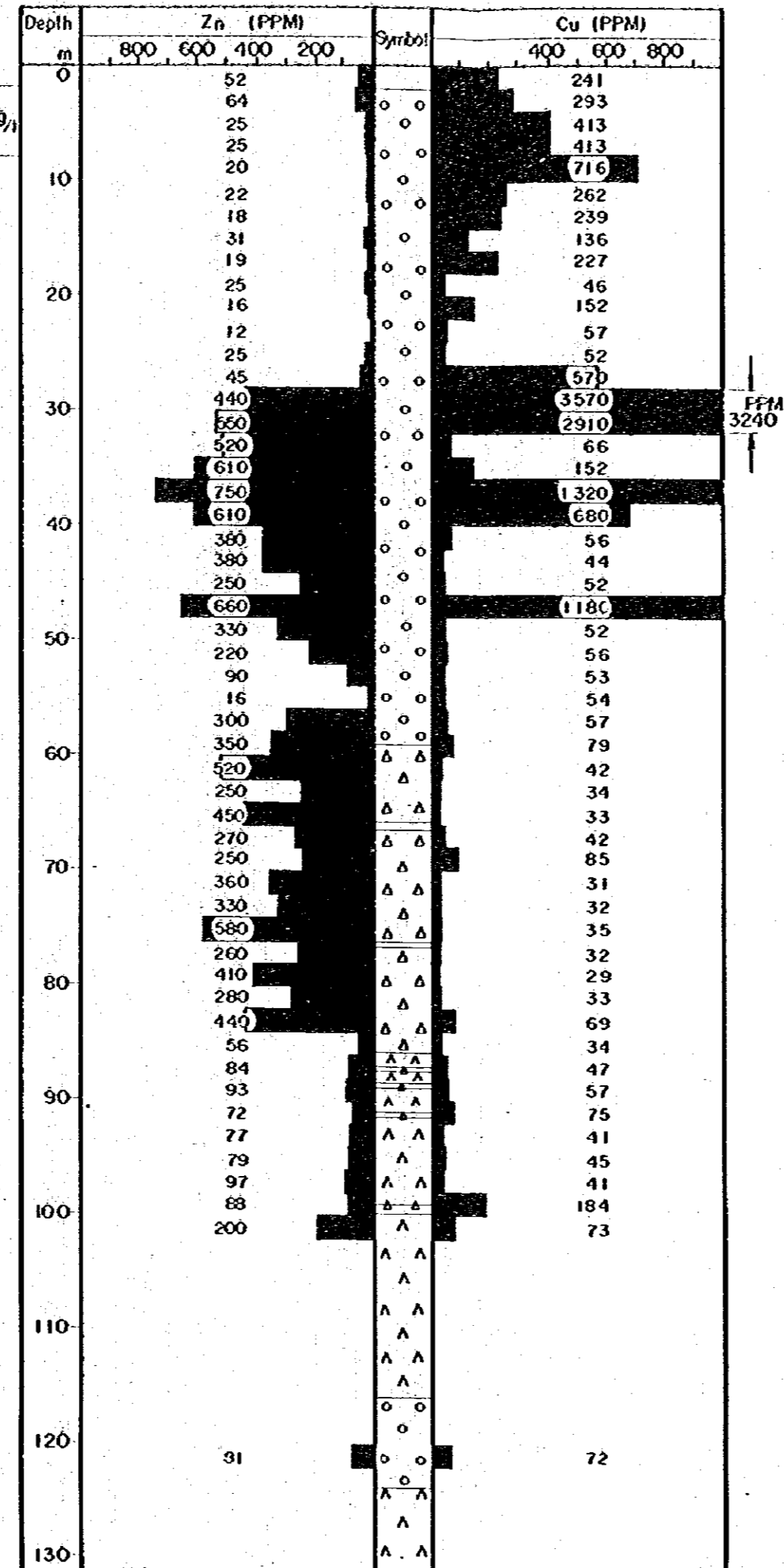
INDEX

Core Rec.	Core Recovery	Texture
Symbol & Original Rock	recovered lost soil clay gravel sand m-ff m-ffb m-wf sh. m-ond por-ond clay zone	aph. ophanitic bre. brecciated grn. granular lam. lamella por. porphyritic Grain Size v fin. very fine grain fin. fine grain med. medium grain cos. coarse grain Phenocryst cal. calcite chl. chlorite cry. clay fd. feldspar hb. hornblende qz. quartz Color d. dark l. light blk. black brn. brown grn. green gry. grey purp. purple wh. white yel. yellow
Mineralization	Py. pyrite Cu. copper Zn. zinc	
Alteration	Sil. silicification Ser. sericitization Carb. carbonization Chl. chloritization Lim. limonitization Hem. hematitization Arg. argillitization	
Mineralization grade	weak, moderate, strong very strong strong moderate weak very weak	
Alteration grade		
Fract & Vein	fracture & crushed zone clay zone brecciated zone	
Remark	and. andesite ang. angular bre. breccia cal. calcite cc. chalcocite ccp. chalcopyrite decomp. decomposed diss. disseminate ls. limestone phero. phenocryst py. pyrite qtz. quartzite qz. quartz sph. sphaerite ff. tuff vlt. veinlet wd. width	

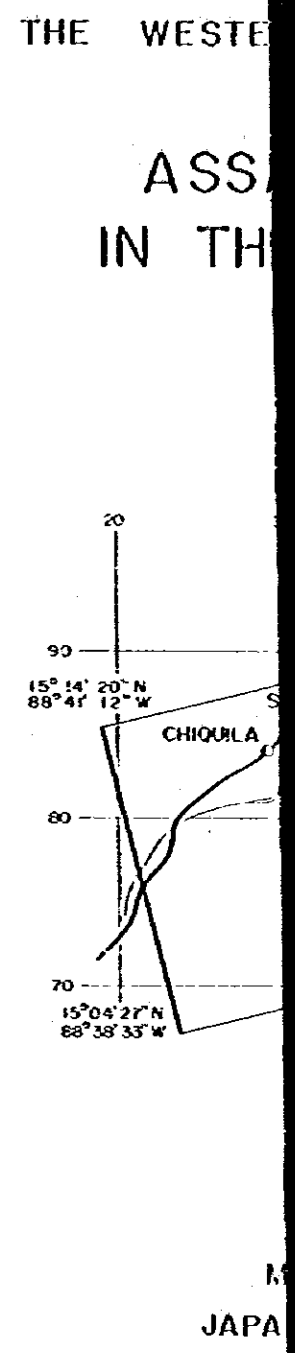
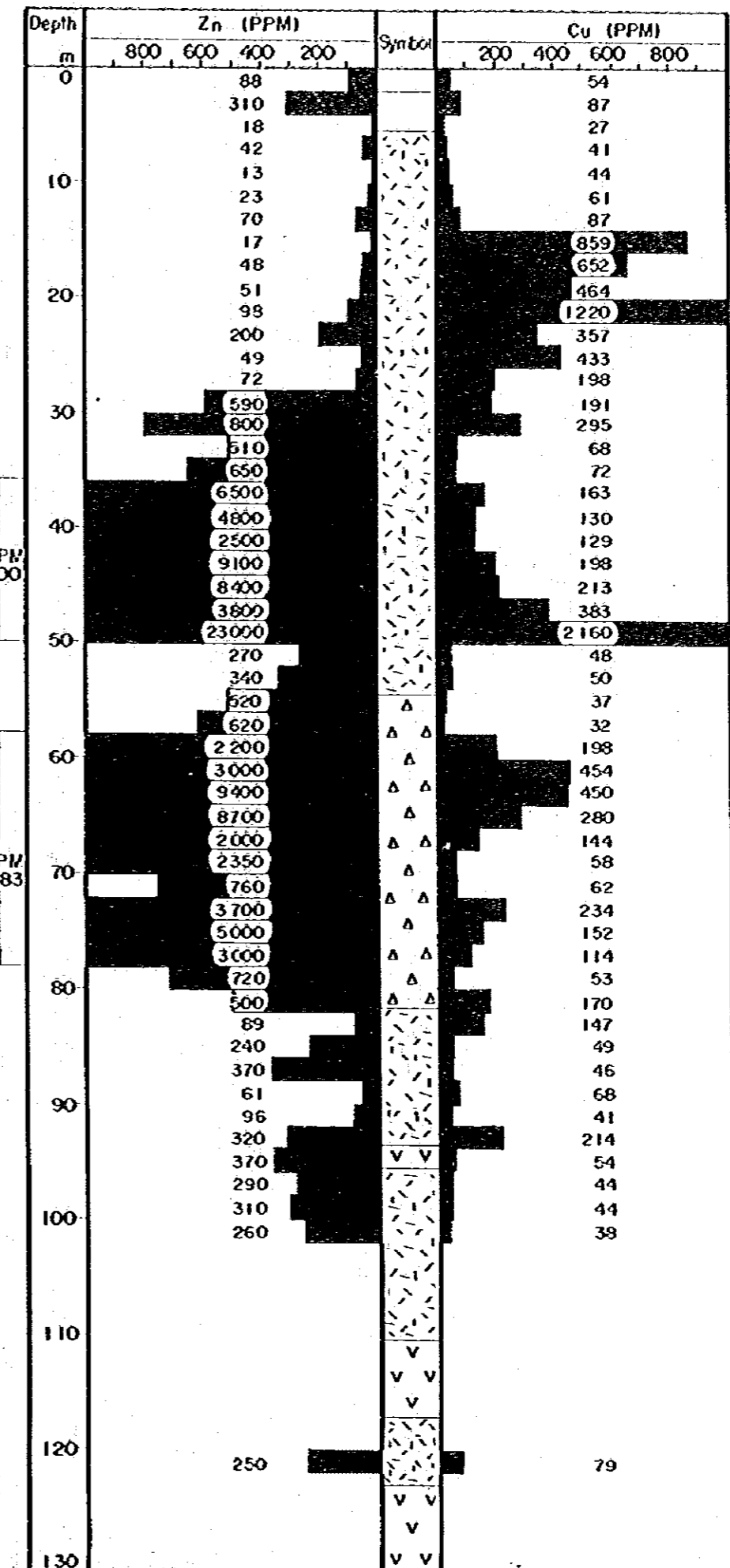
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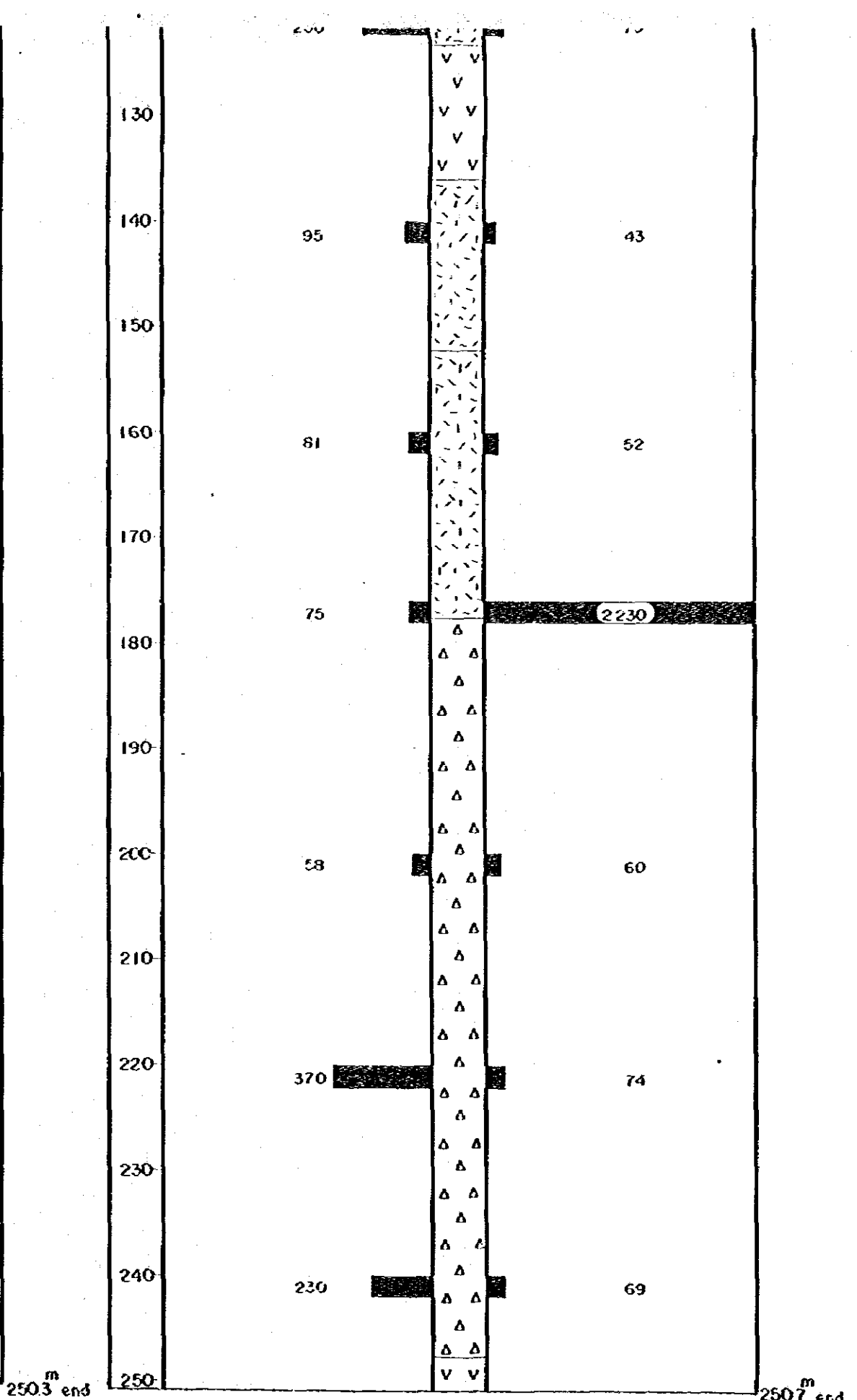
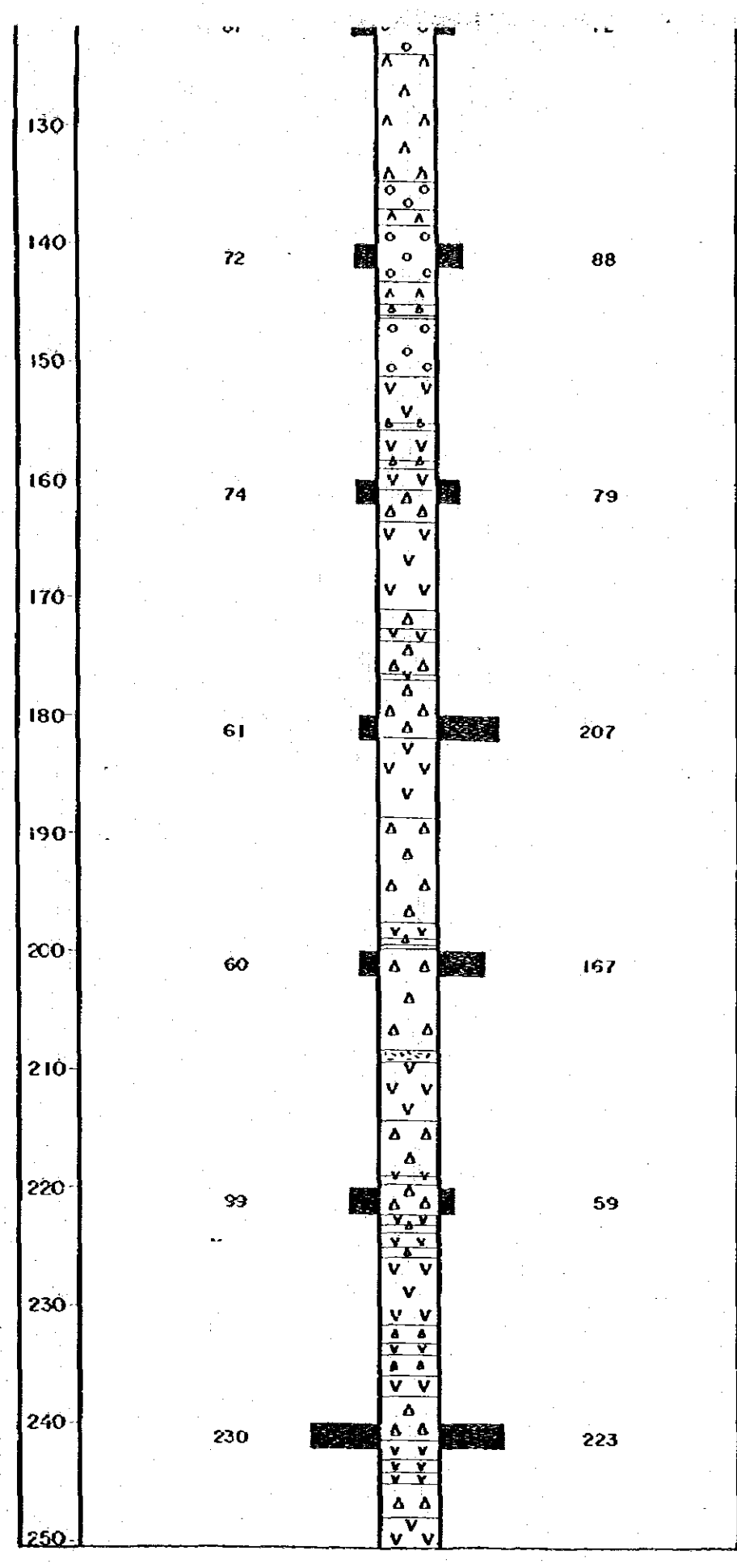
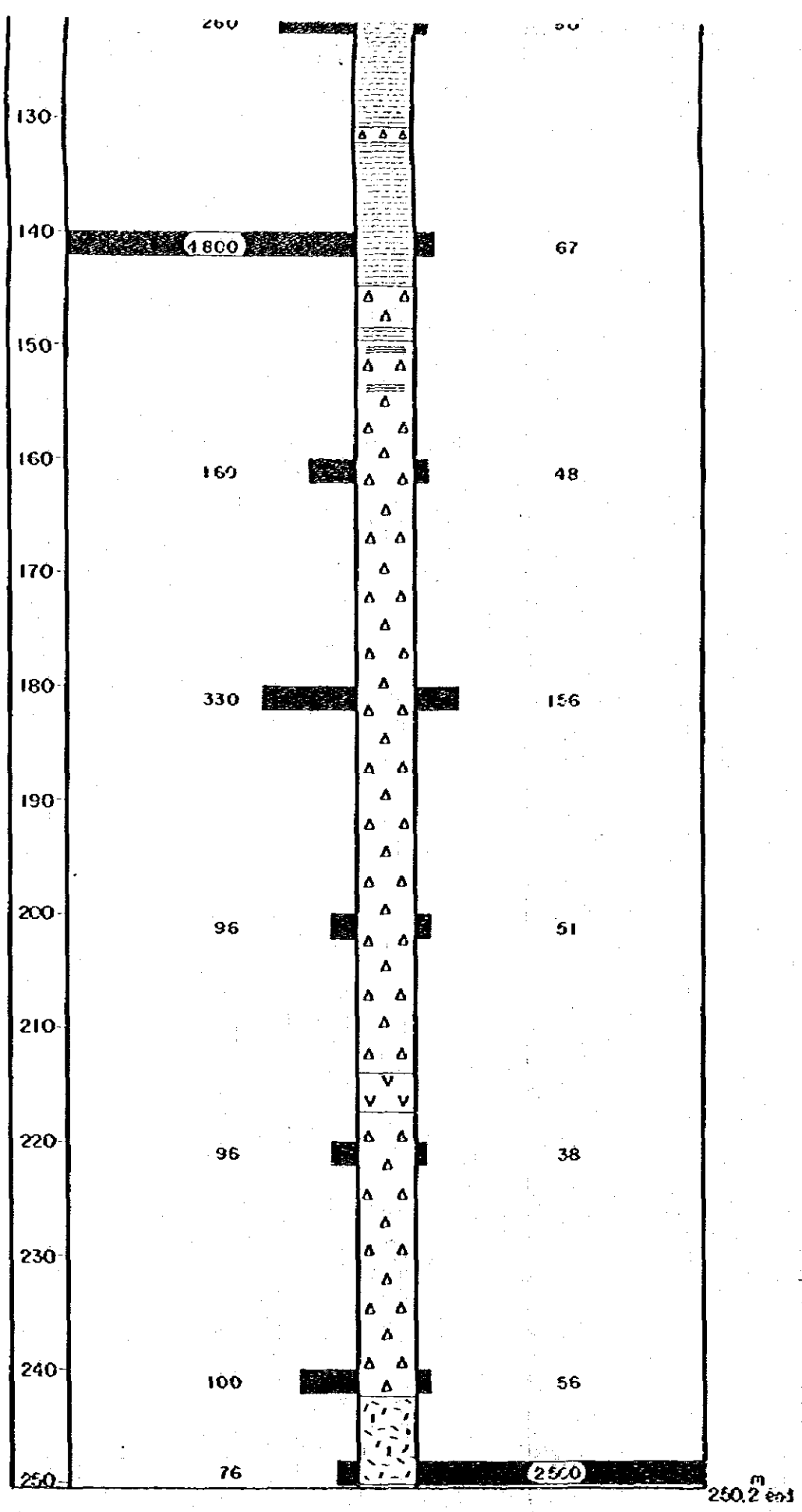


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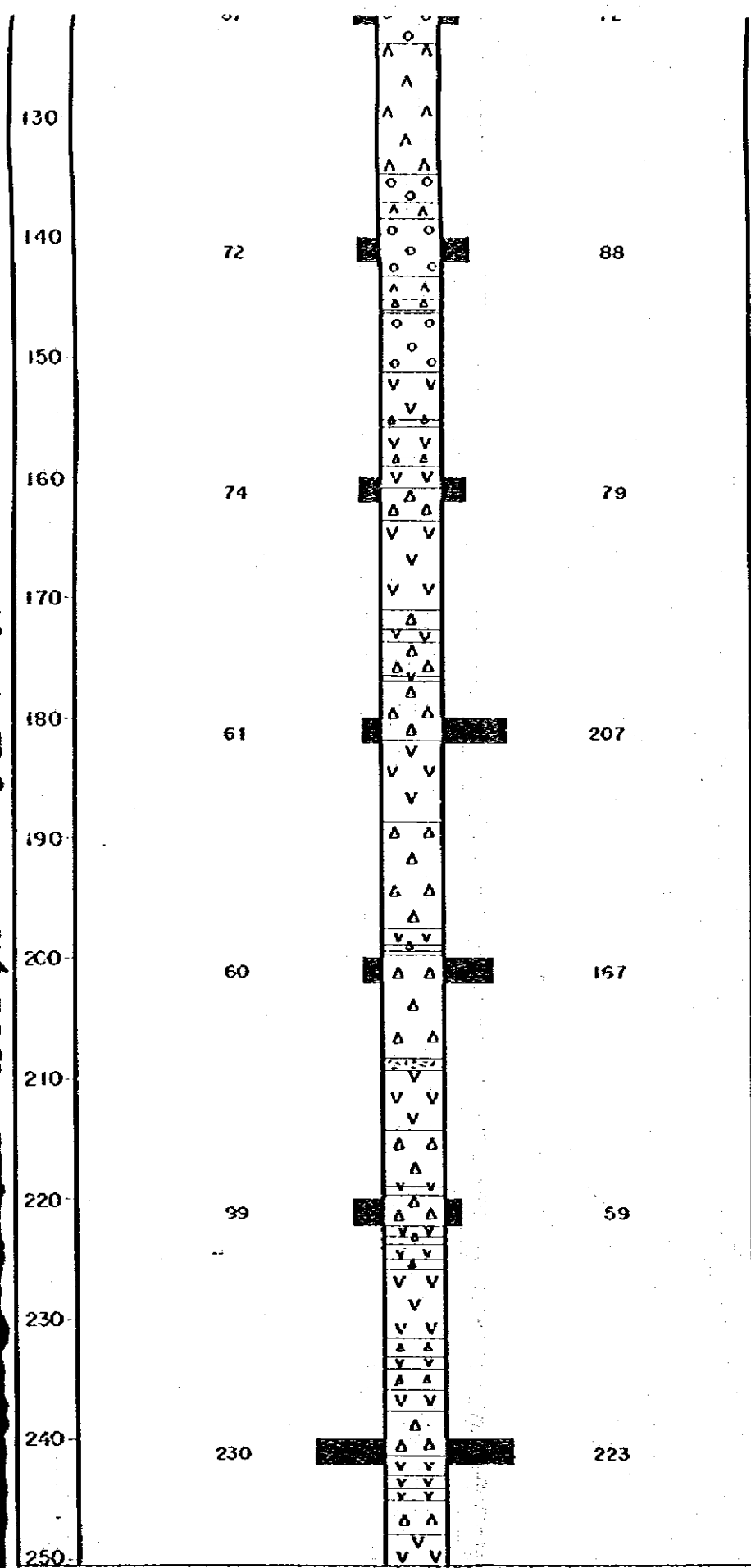


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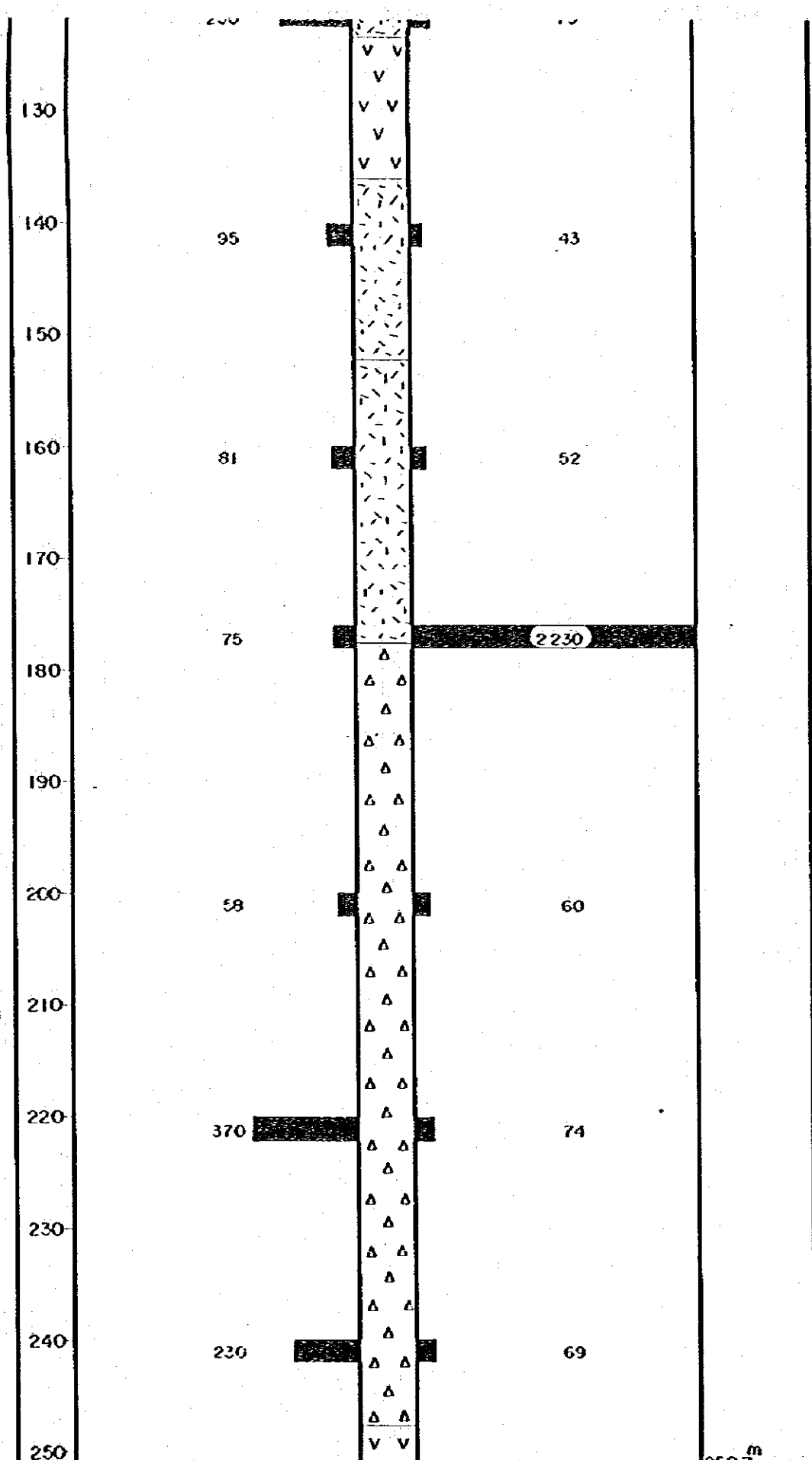




Symbol &
Original Rock



2503^m end

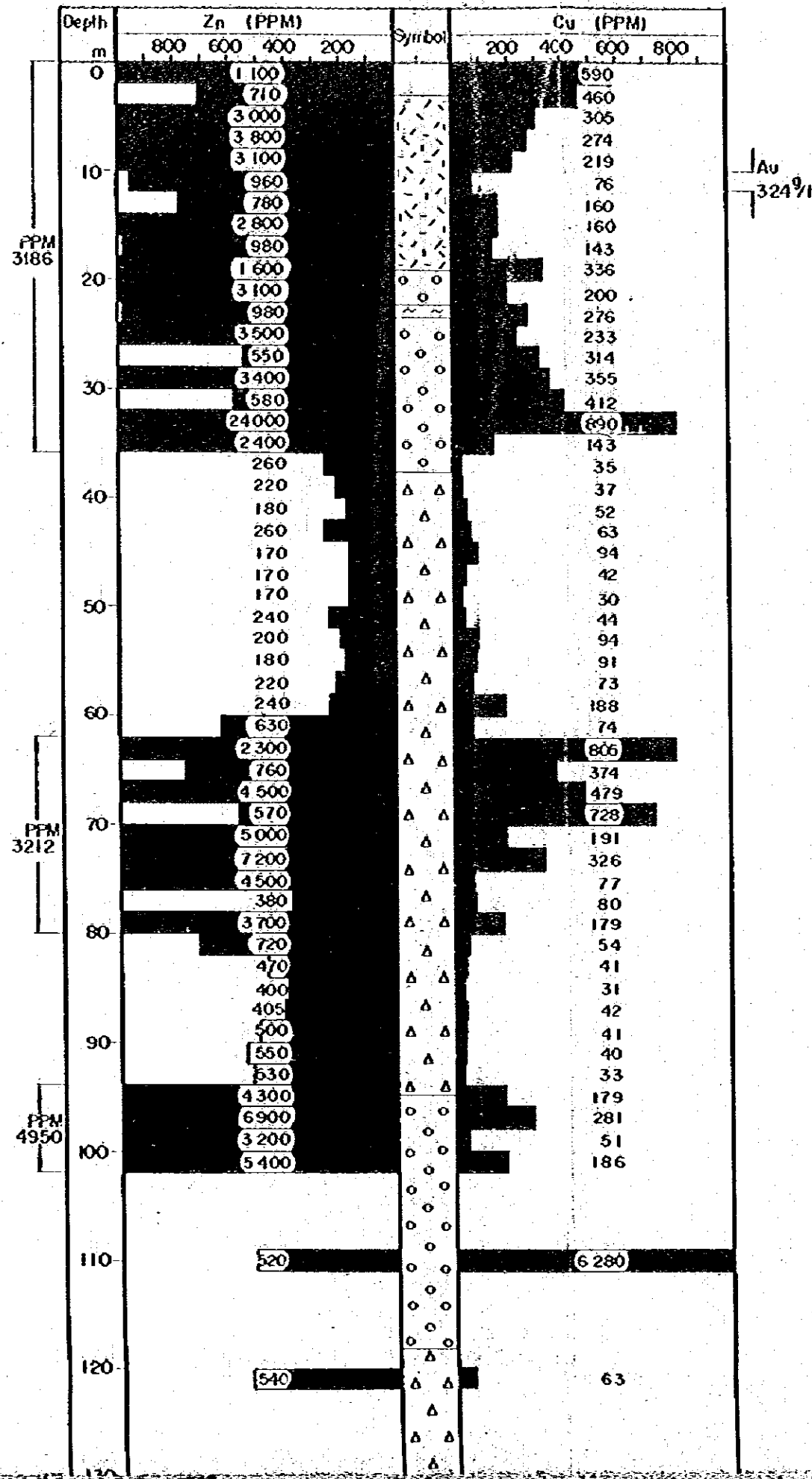


2507^m end

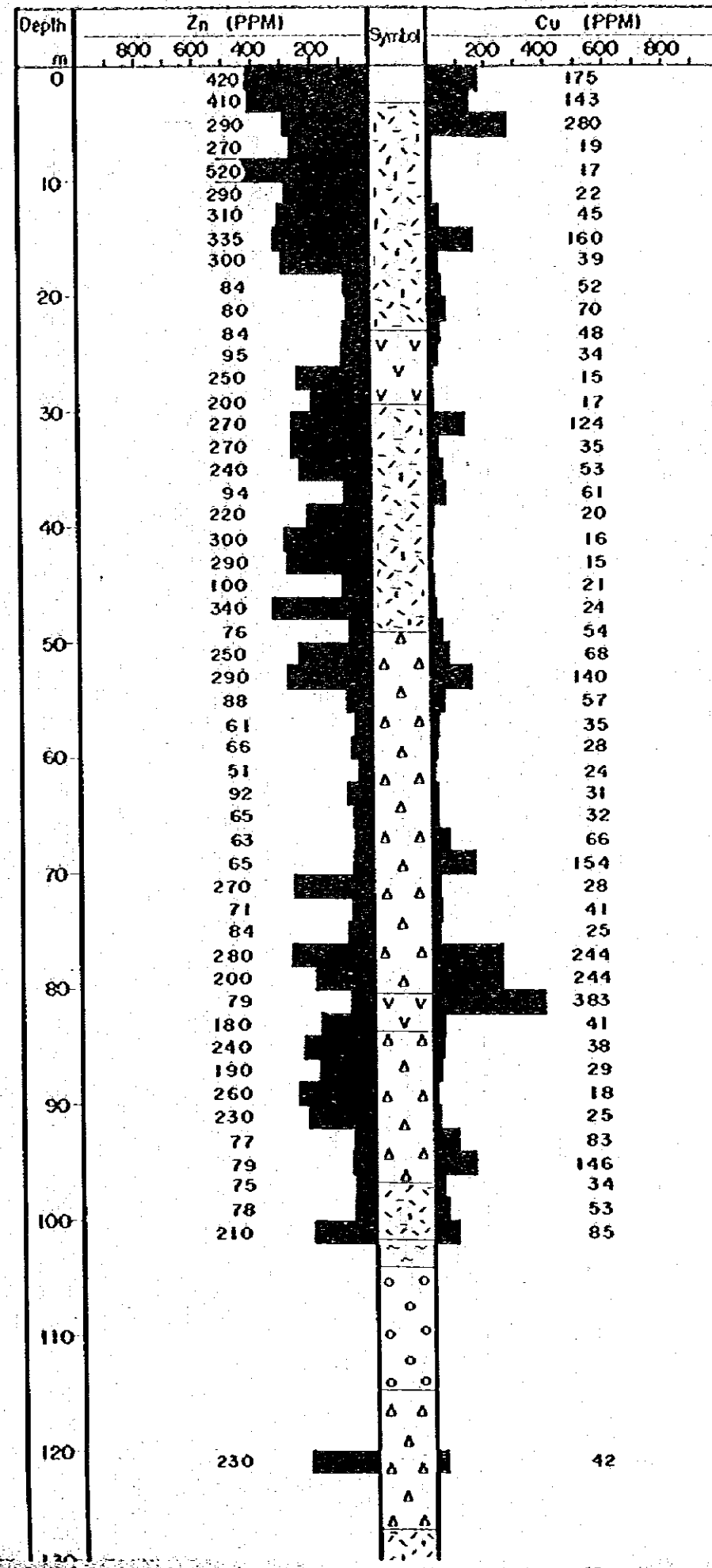
INDEX

Symbol & Original Rock	Rock Type
[Dotted pattern]	soil
[Horizontal lines]	clay
[Large circles]	gravel
[Small dots]	sand
[Diagonal lines]	meta tuff
[Triangles]	meta tuff breccia
[Circles]	meta welded tuff
[Horizontal lines]	shale & muddy tuff
[Inverted triangles]	meta andesite
[Triangles]	porphyrite & andesite
[Wavy lines]	clay zone

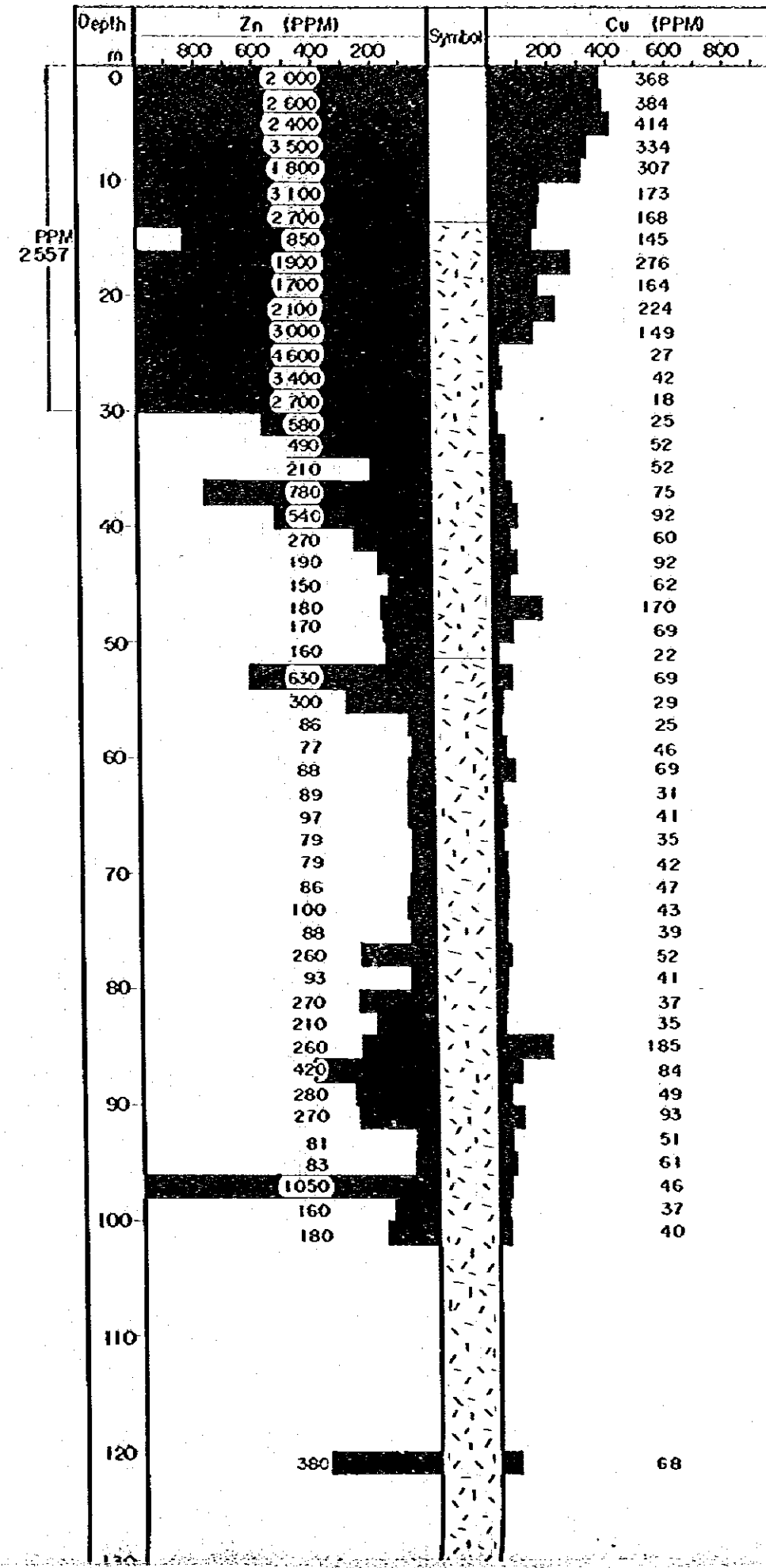
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No.54-5

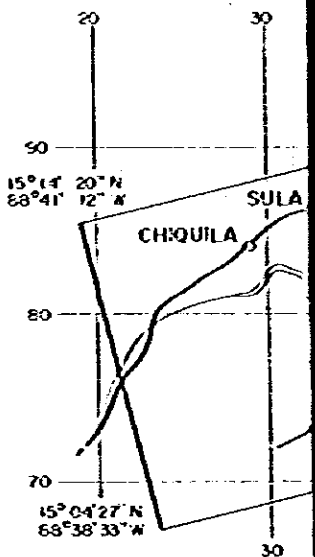


No.54-6



THE WESTERN

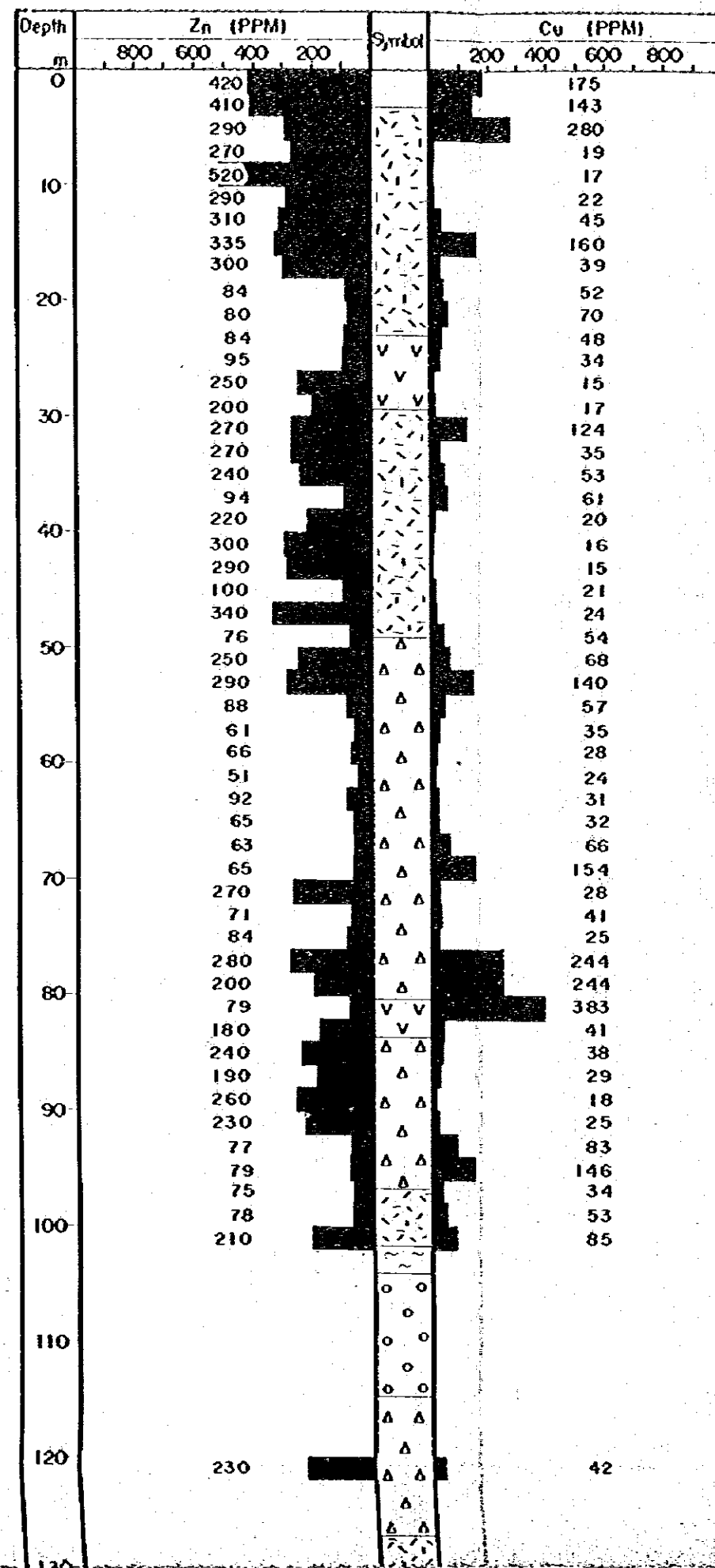
ASSAY
IN THE



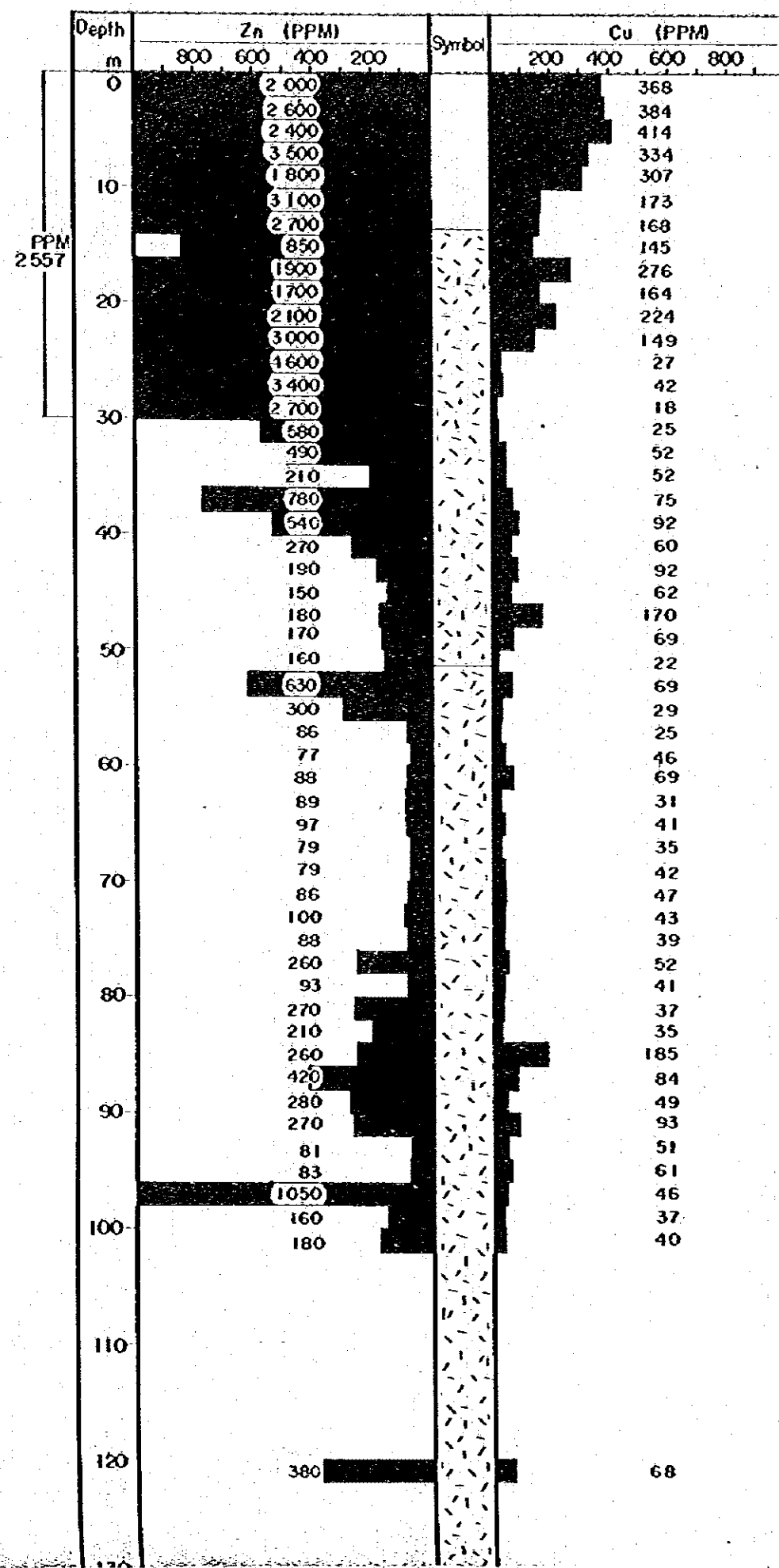
ME
JAPAN

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No.54-5



No.54-6



PL. II-3-2

GEOLOGICAL SURVEY
OF

国際協力事業団

09300

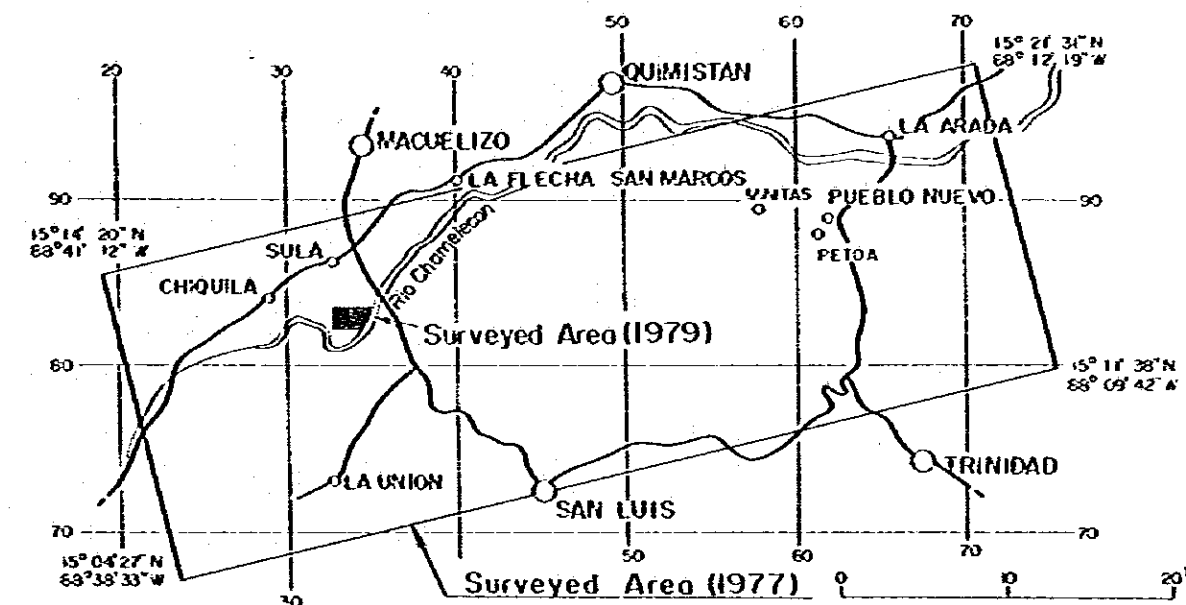
図書資料室蔵書

THE WESTERN AREA, REPUBLIC OF HONDURAS

VOL. 4

ASSAY MAP OF DRILL HOLES
IN THE VUELTAS DEL RIO SECTOR

No.54-4, No.54-5, No.54-6



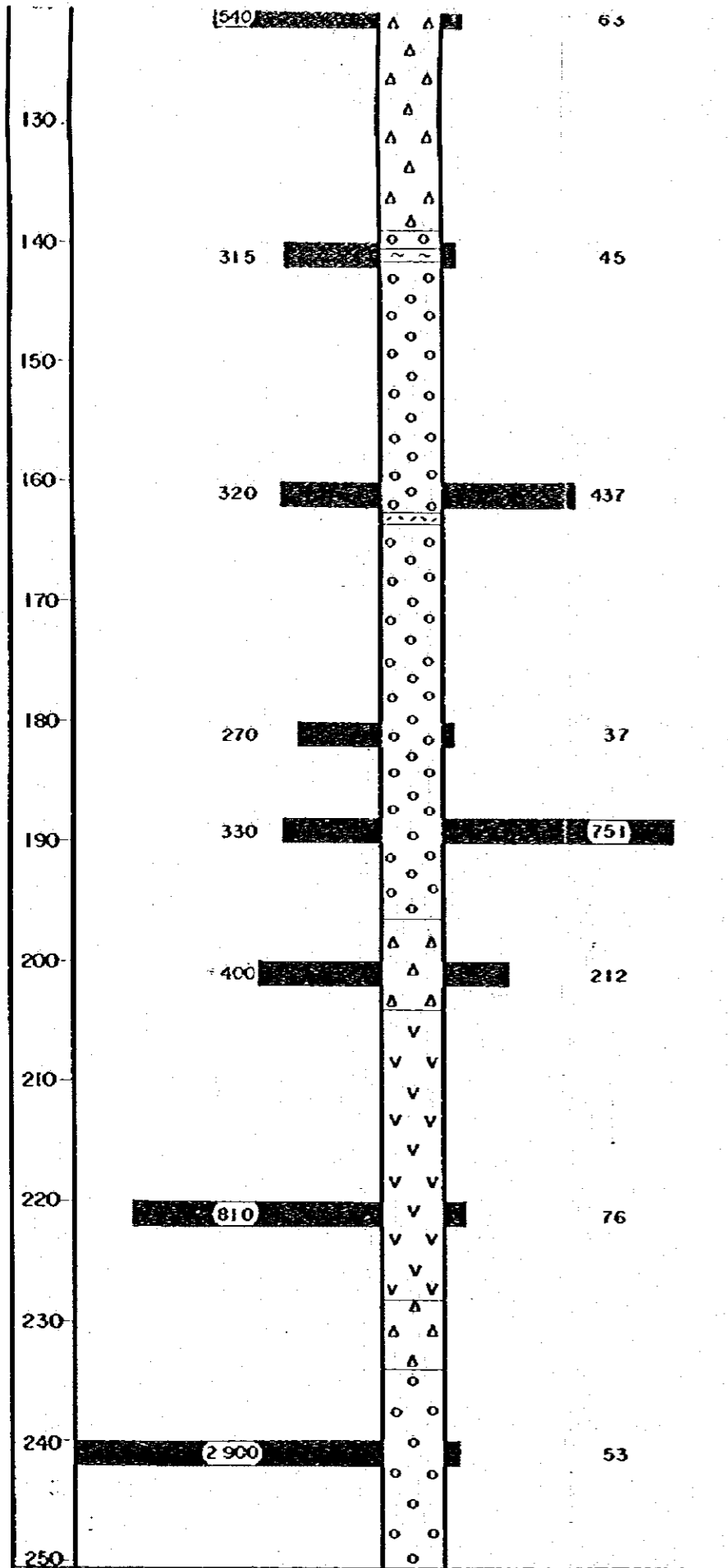
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JAPAN INTERNATIONAL COOPERATION AGENCY
GOVERNMENT OF JAPAN

FEBRUARY 1980

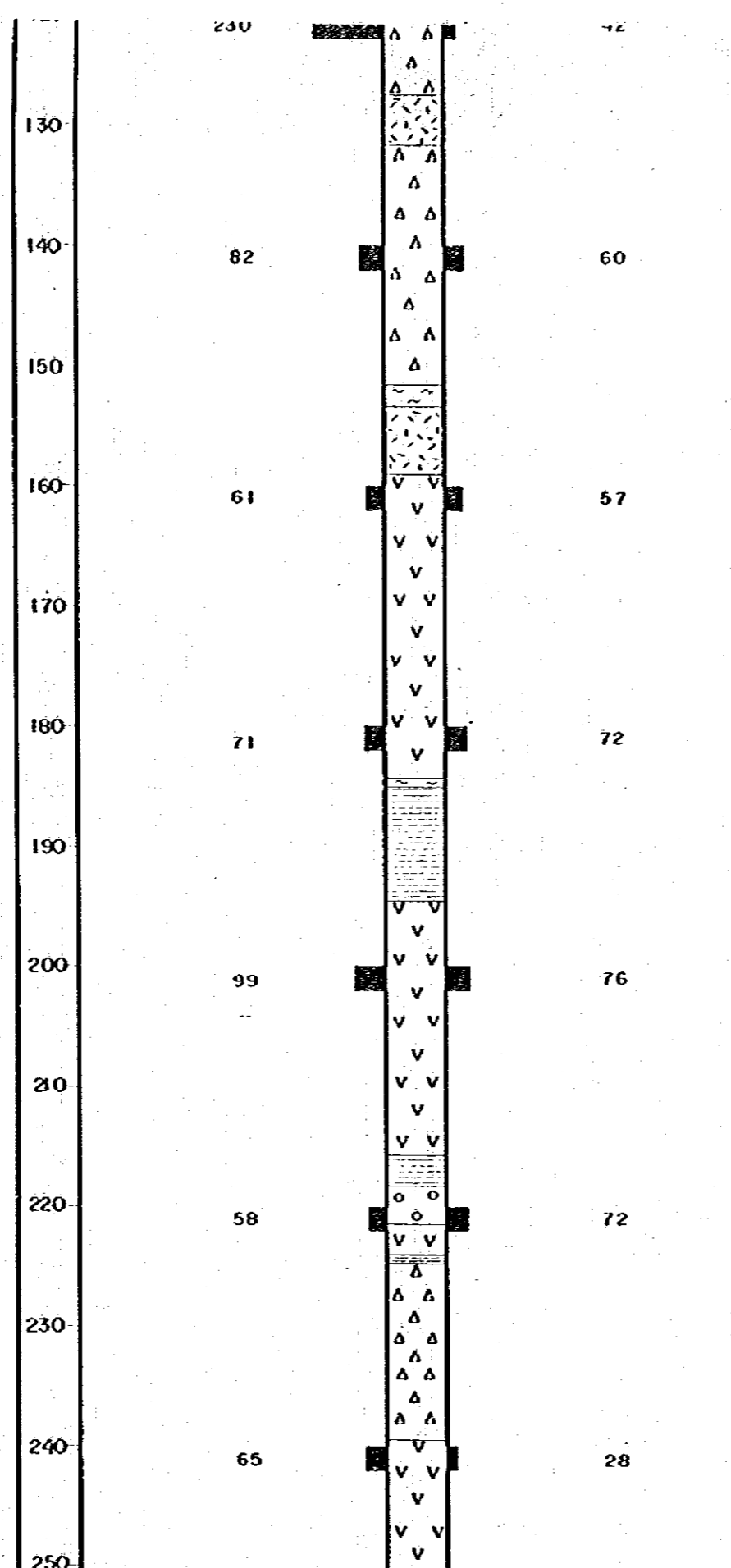
prepared by MESCO, Inc.

Scale 1:500

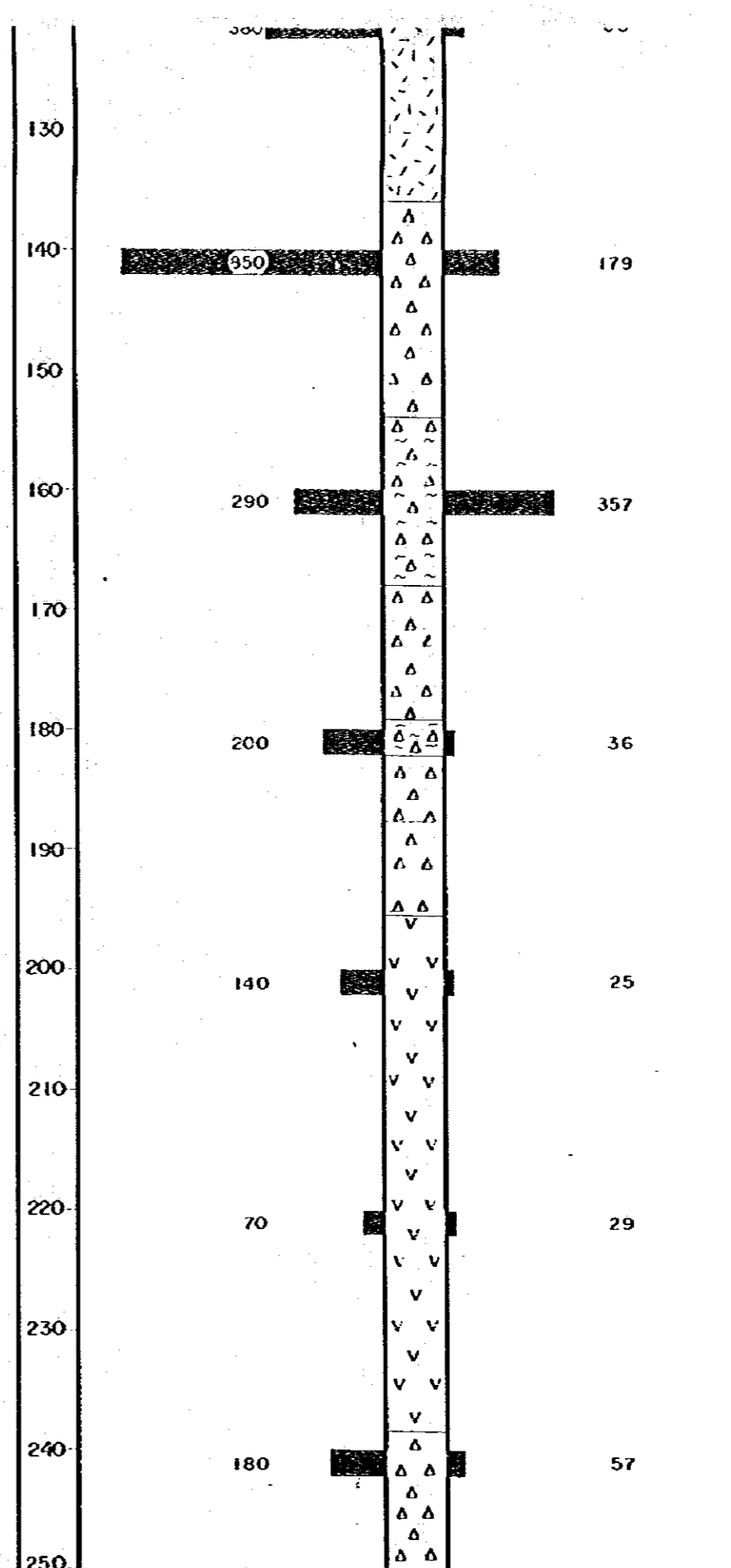




250.4^m end

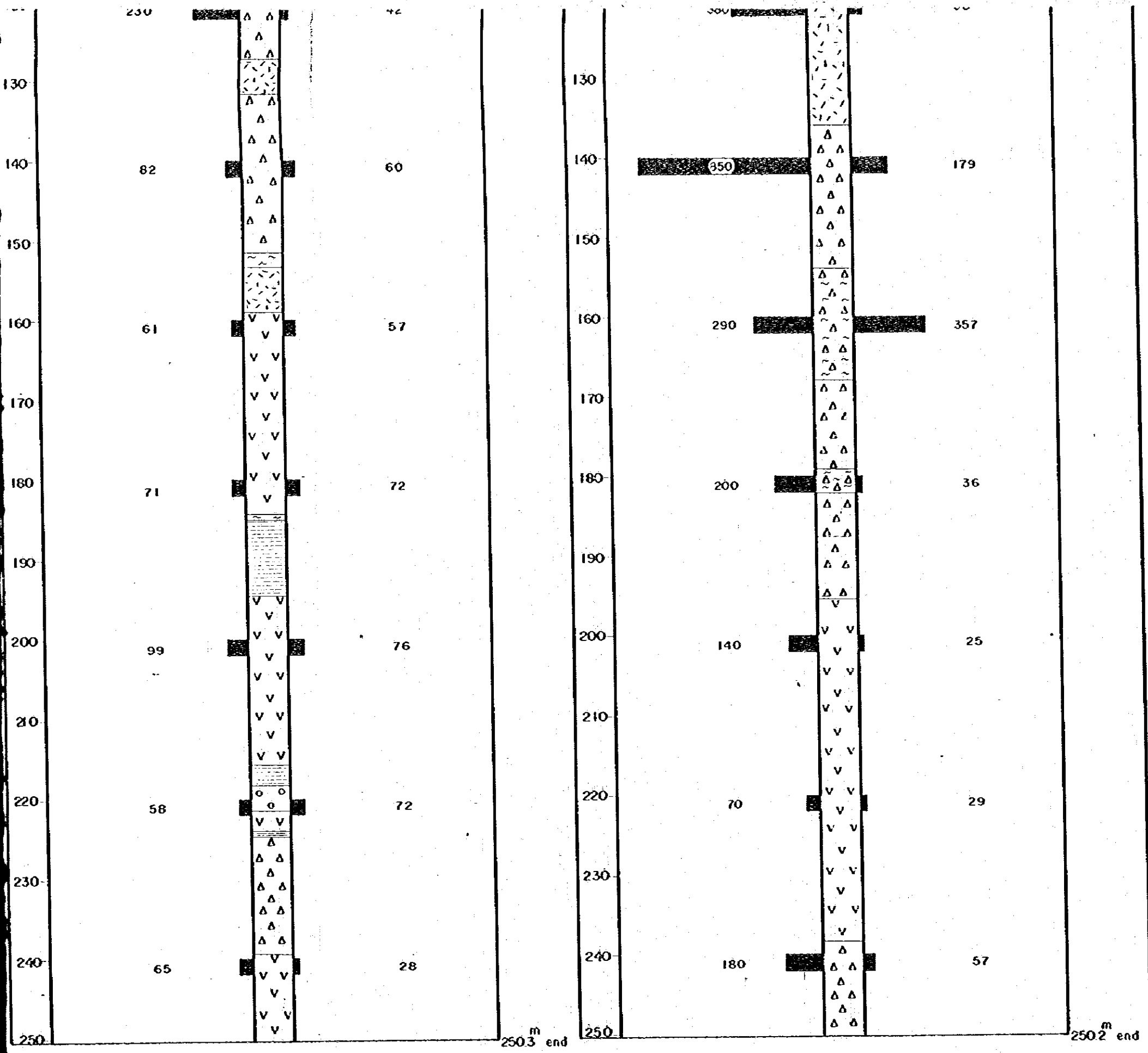


250.3^m end



250.2^m end

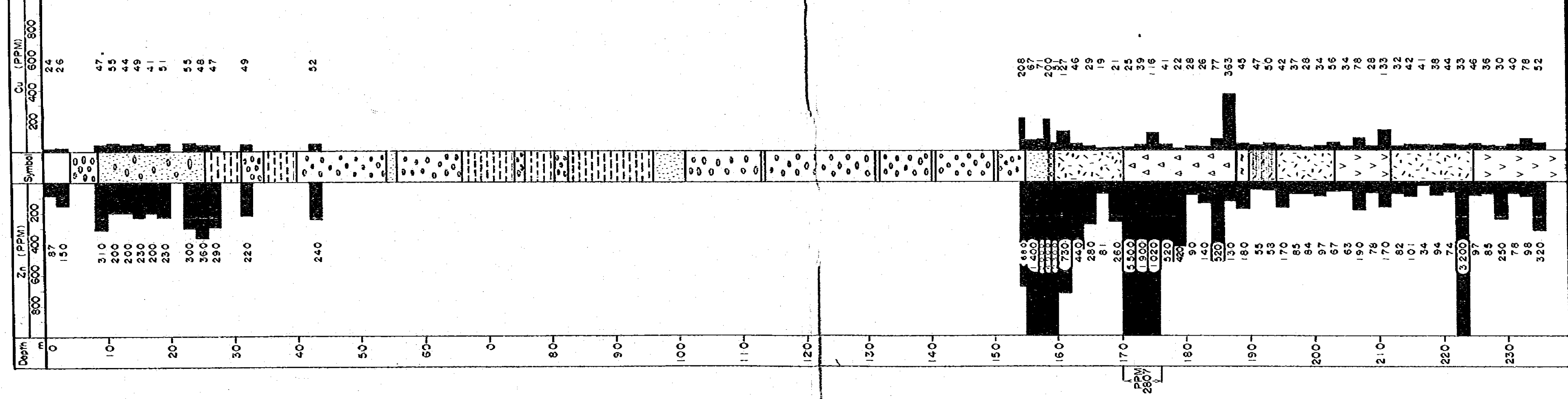
Symbol &
Original Rock



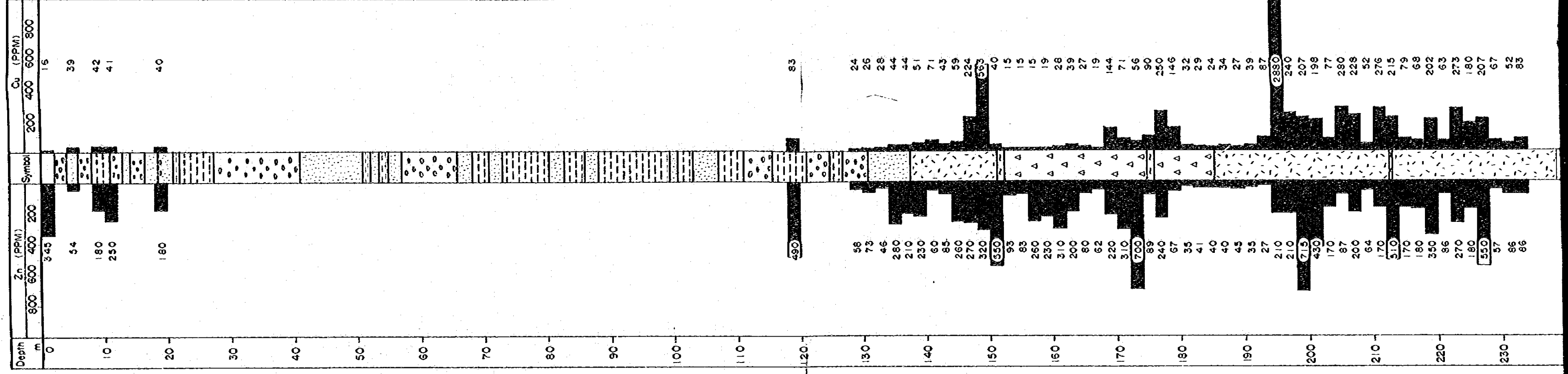
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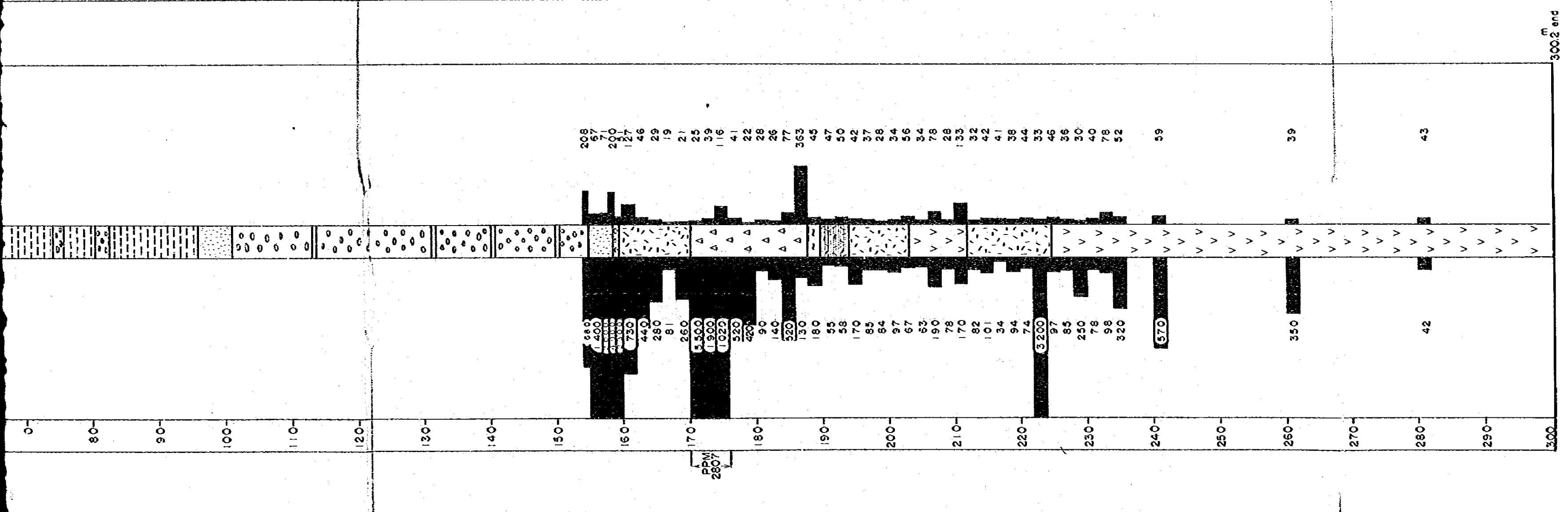
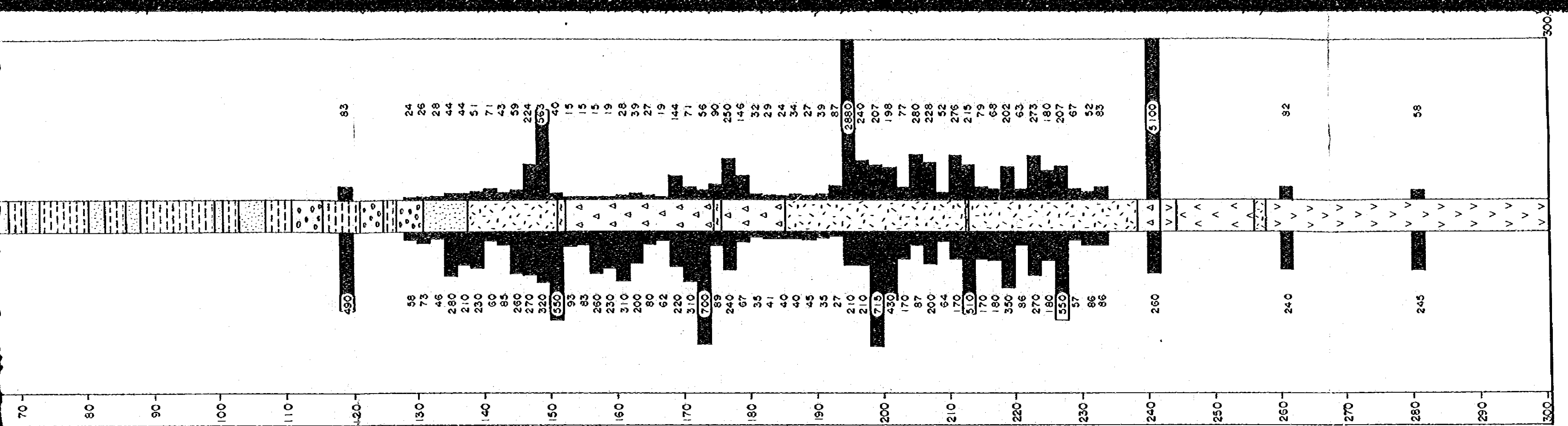
Symbol & Original Rock	Rock Type
	soil
	clay
	gravel
	sand
	meta tuff
	meta tuffbreccia
	meta welded tuff
	shale & muddy tuff
	meta andesite
	porphyrite & andesite
	clay zone

No.54-7



No.54-8





W (PPM)
600 800
16
39
42
41
40

PL. II-33

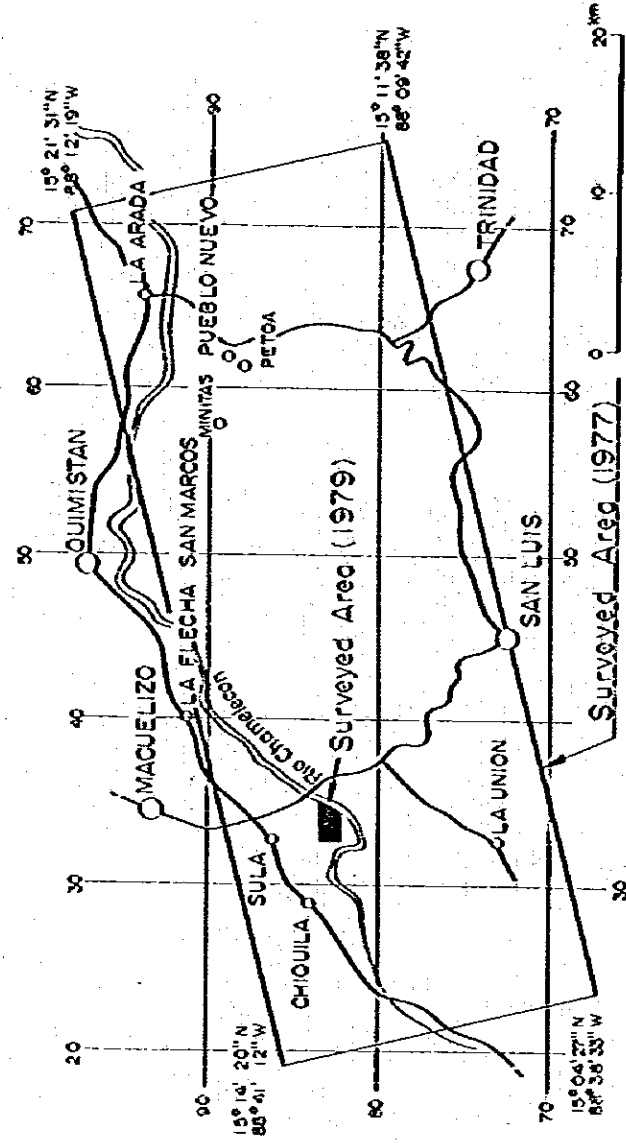
GEOLOGICAL SURVEY
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THE WESTERN AREA, REPUBLIC OF HONDURAS

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ASSAY MAP OF DRILL HOLES IN THE VUELTAS DEL RIO SECTOR

No. 54-7, No. 54-8



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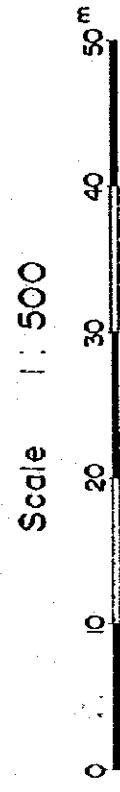


24
26
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44
44
51
71
43
59
224
563
40
15
15
15
19
28
39
27
19
144
71
56
90
250
146
32
29
34
34
27
39
87
2880
240
207
198
77
280
228
52
276
215
79
68
202
63
273
180
207
67
52
83

INDEX

Symbol	Original Rock
□	soil
▨	clay
▩	gravel
▪	sand
▧	meta tuff
▦	meta tuffbreccia
▥	meta welded tuff
▤	shale & muddy tuff
▣	meta andesite
▢	porphyrite & andesite
□	clay zone

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24
 26
 28
 44
 44
 51
 71
 43
 59
 224
 55
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 15
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 19
 28
 39
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 144
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 56
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 250
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 32
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 24
 34
 27
 39
 87
 288
 240
 207
 198
 77
 280
 228
 52
 276
 215
 79
 68
 202
 63
 273
 180
 207
 67
 52
 83

5100

82

58

300^m end

INDEX

Symbol & Original Rock	
	soil
	clay
	gravel
	sand
	meta tuff
	meta tuffbreccia
	meta welded tuff
	shale & muddy tuff
	meta andesite
	porphyrite & andesite
	clay zone

