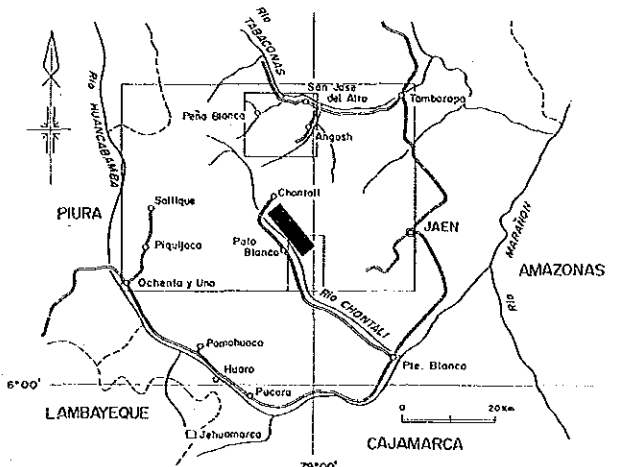


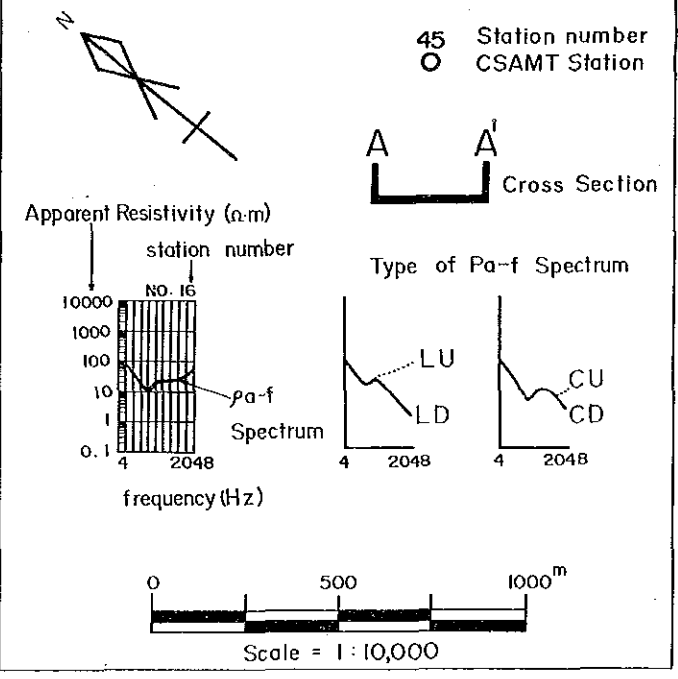
THE MINERAL EXPLORATION
IN
THE PACHAPIRIANA AREA, REPUBLIC OF PERU
(PHASE II)

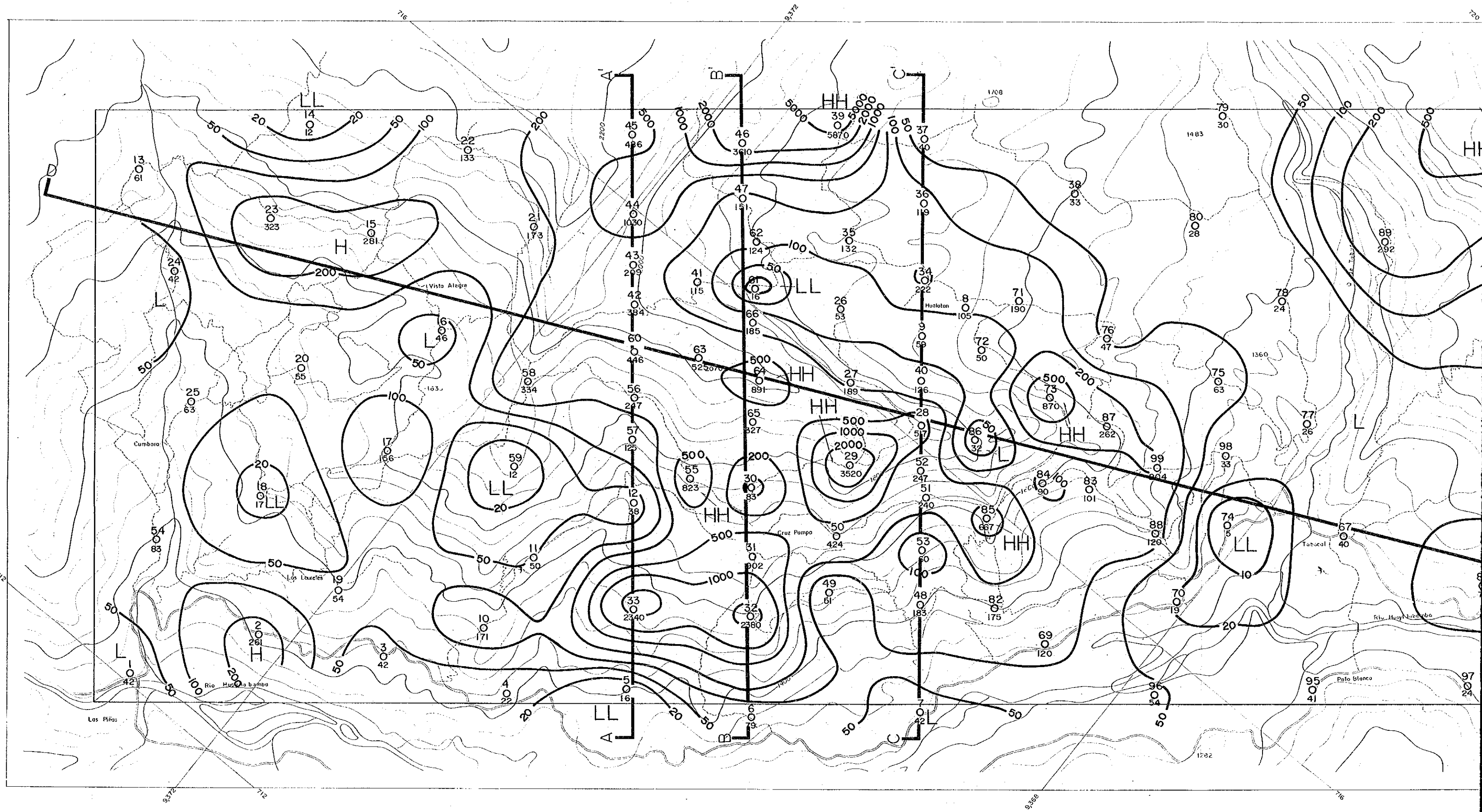
PL-8 ρ_a -f Spectrum Map
of the Chontali Area

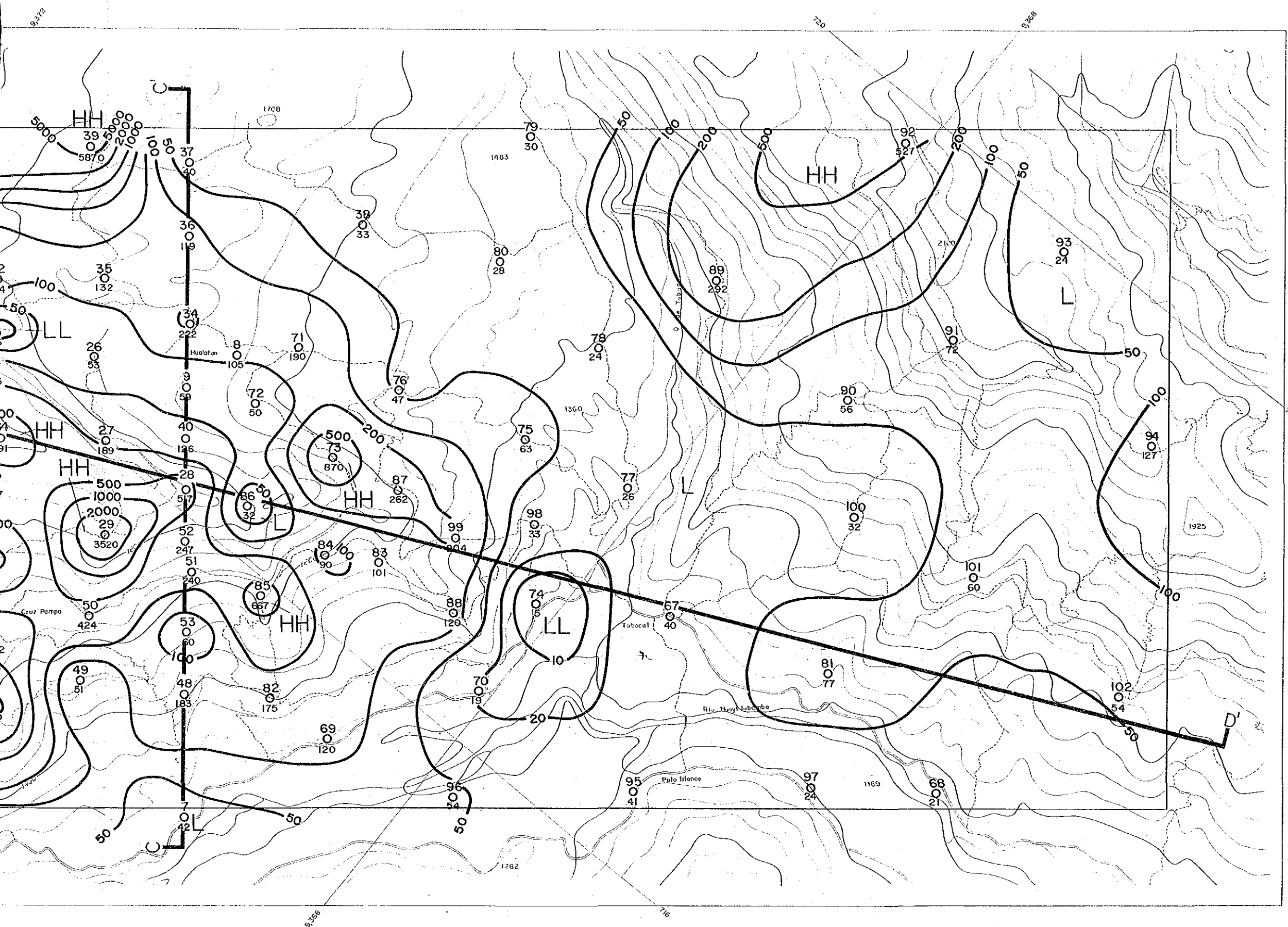


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FEBRUARY 1990
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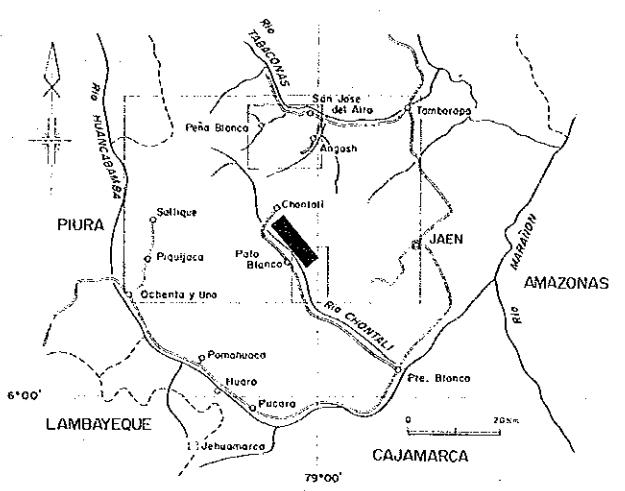
LEGEND







THE MINERAL EXPLORATION
 IN
 THE PACHAPIRIANA AREA, REPUBLIC OF PERU
 (PHASE II)
 PL-9(1) Apparent Resistivity Map
 of the Chontali Area (2048 Hz)



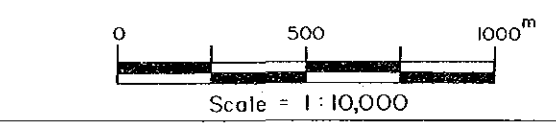
JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
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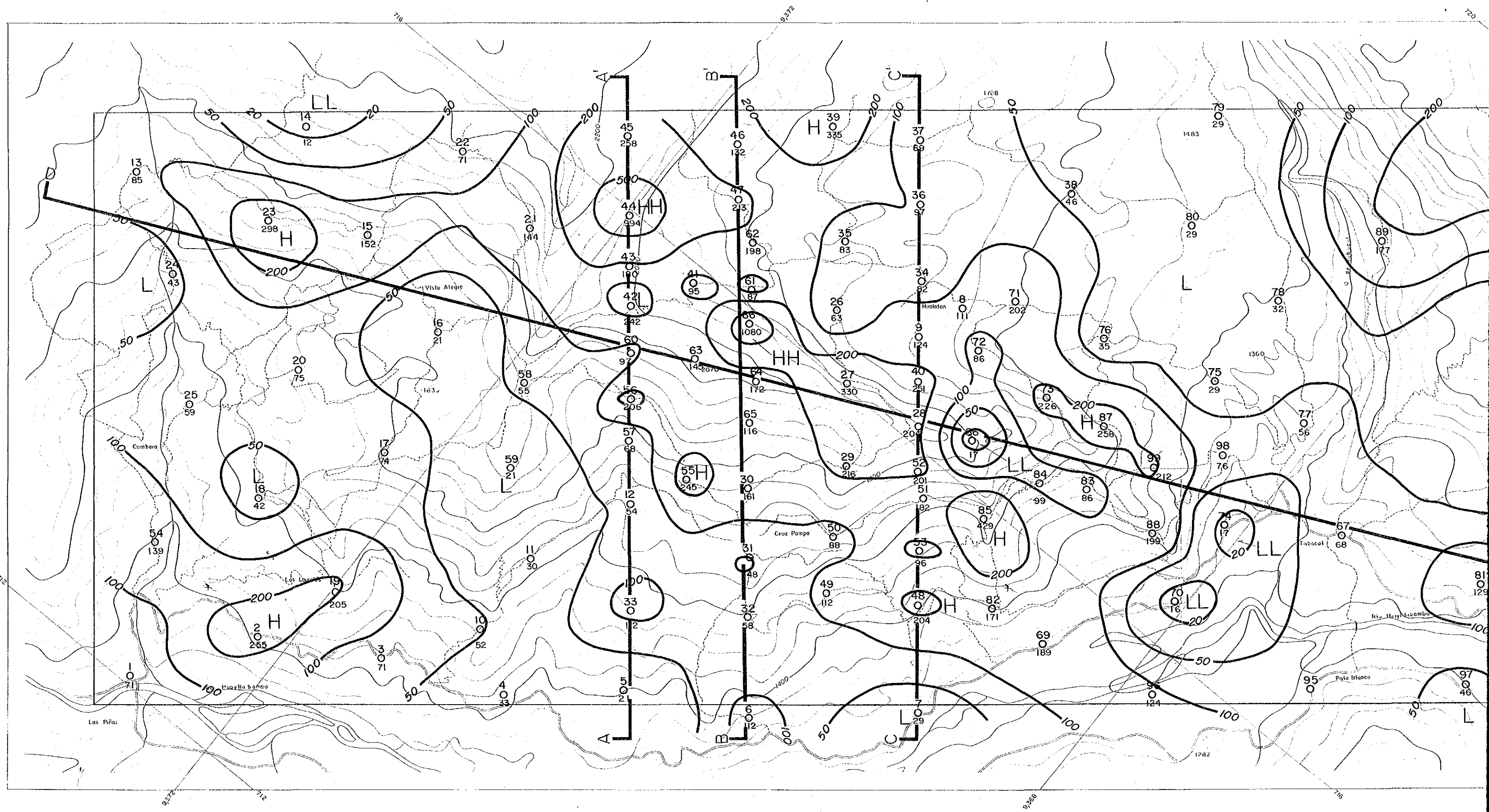
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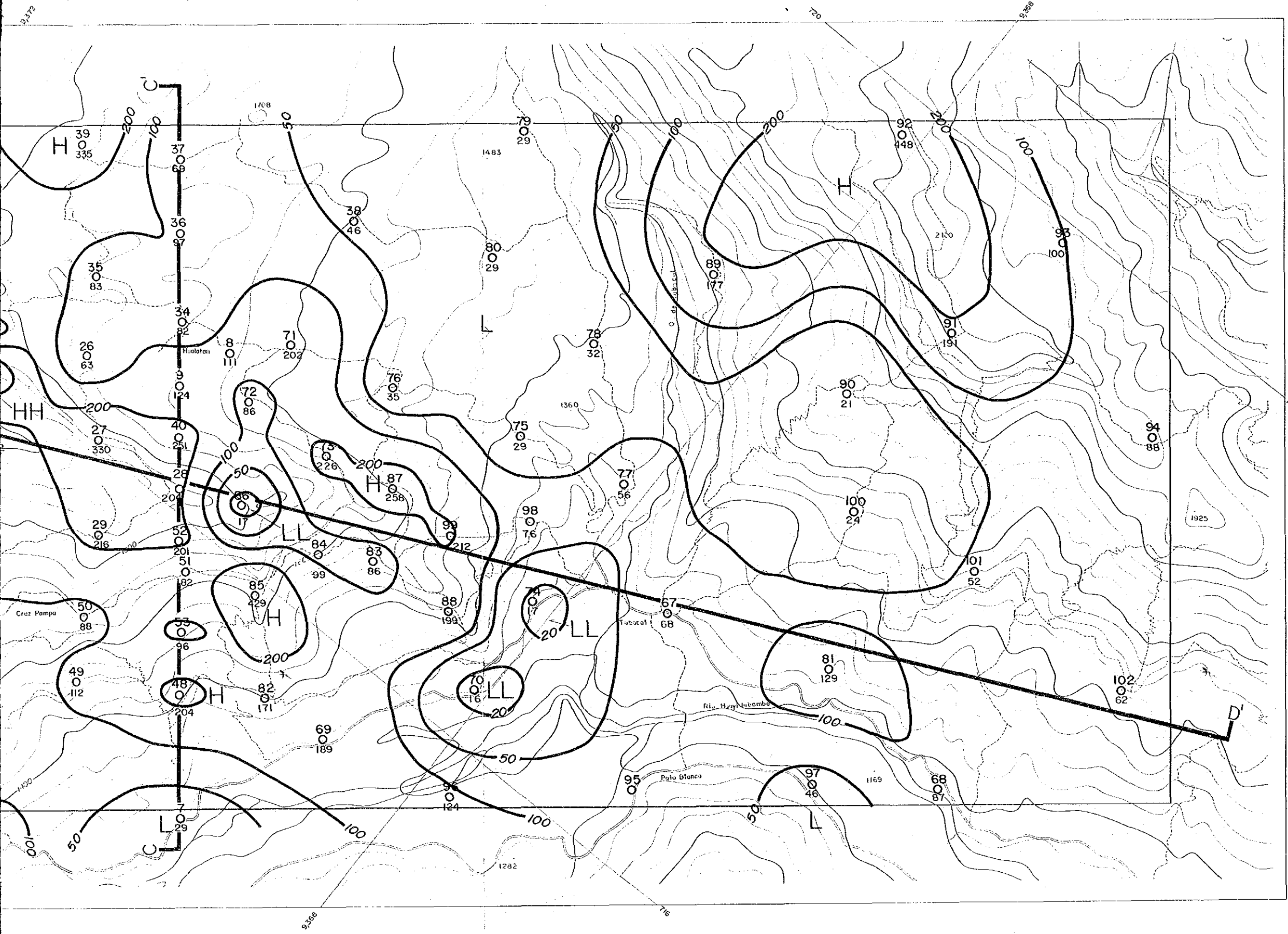
- 45 Station number
- CSAMT Station
- 202 Apparent Resistivity (Ω·m)
- Cross Section
- 10 Apparent Resistivity
- 20 Resistivity
- 50 Contour (Ω·m)

Division of Apparent Resistivity

20	50	200	500 (Ω·m)
LL	L	H	HH







THE MINERAL EXPLORATION
 IN
 THE PACHAPIRIANA AREA, REPUBLIC OF PERU
 (PHASE II)
 PL-9(2) Apparent Resistivity Map
 of the Chontali Area (256 Hz)

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LEGEND

45 Station number
 ○ CSAMT Station
 202 Apparent Resistivity (Ω·m)

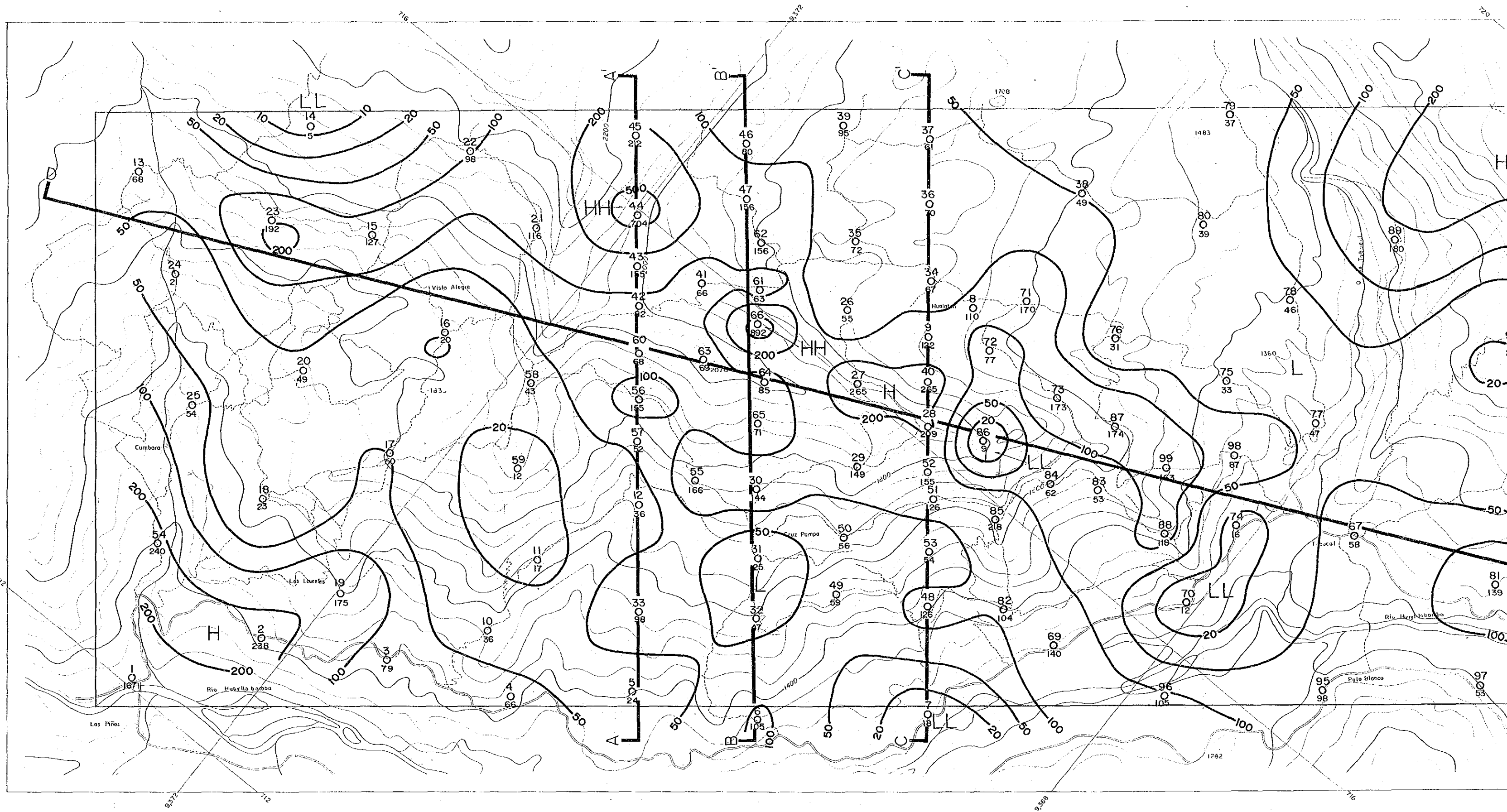
Division of Apparent Resistivity

20	50	200	500 (Ω·m)
LL	L	H	HH

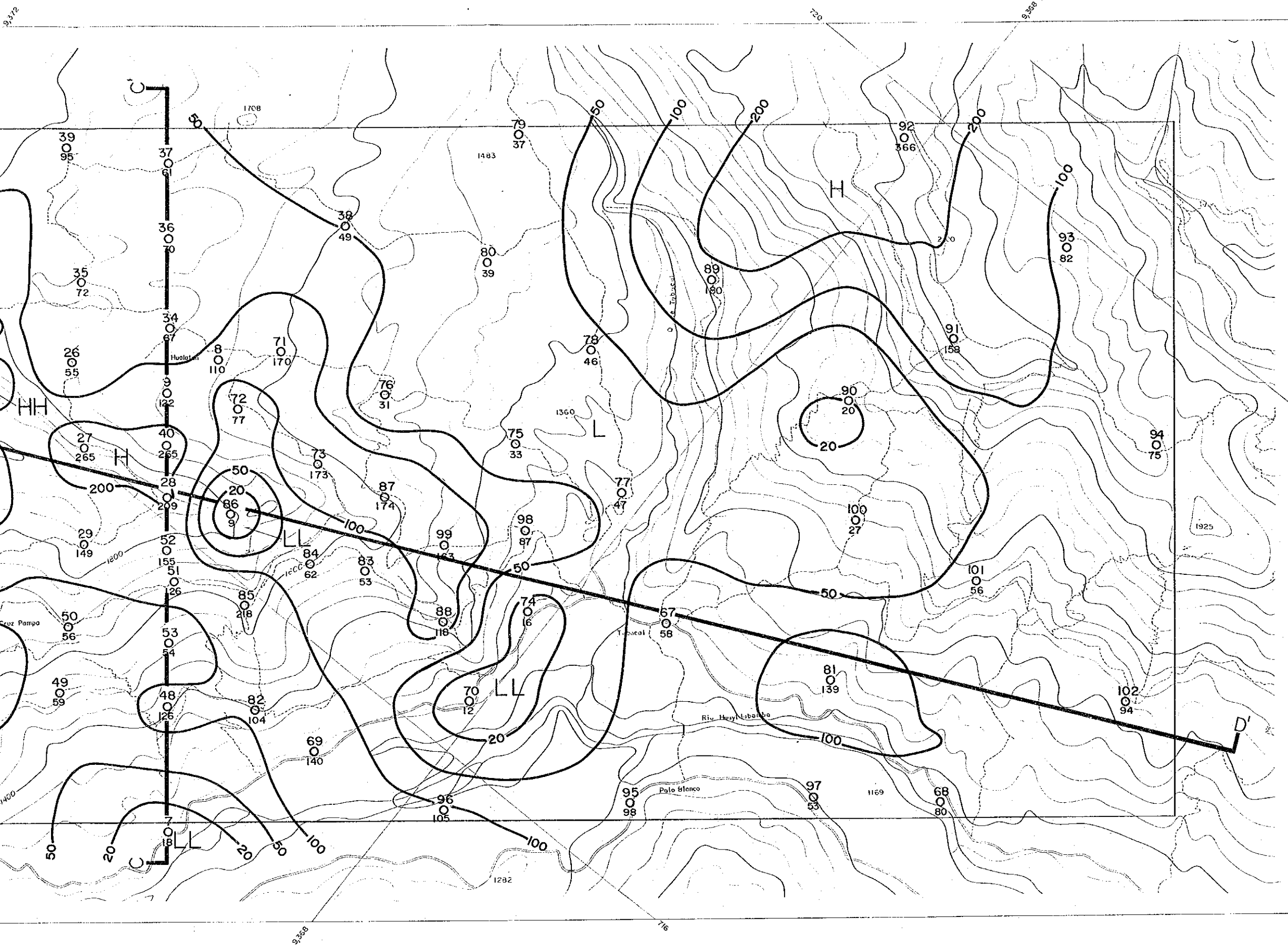
Cross Section

10 Apparent
 20 Resistivity
 50 Contour (Ω·m)

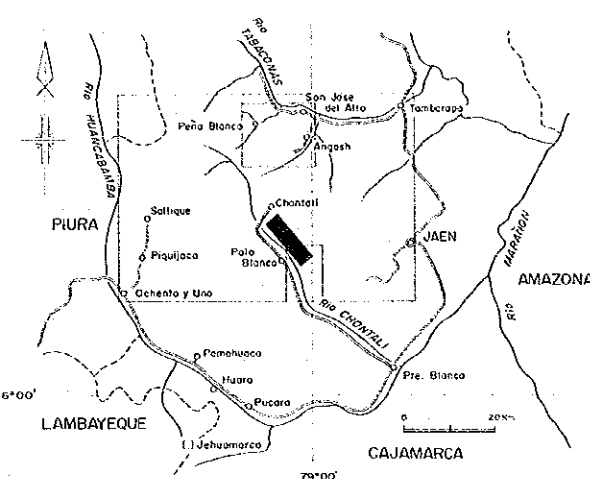
Scale = 1 : 10,000



9312



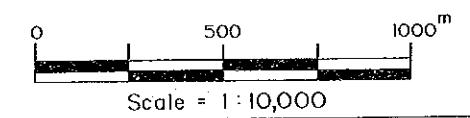
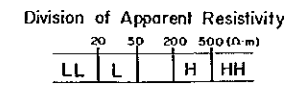
THE MINERAL EXPLORATION
 IN
 THE PACHAPIRIANA AREA, REPUBLIC OF PERU
 (PHASE II)
 PL-9(3) Apparent Resistivity Map
 of the Chontali Area (64Hz)

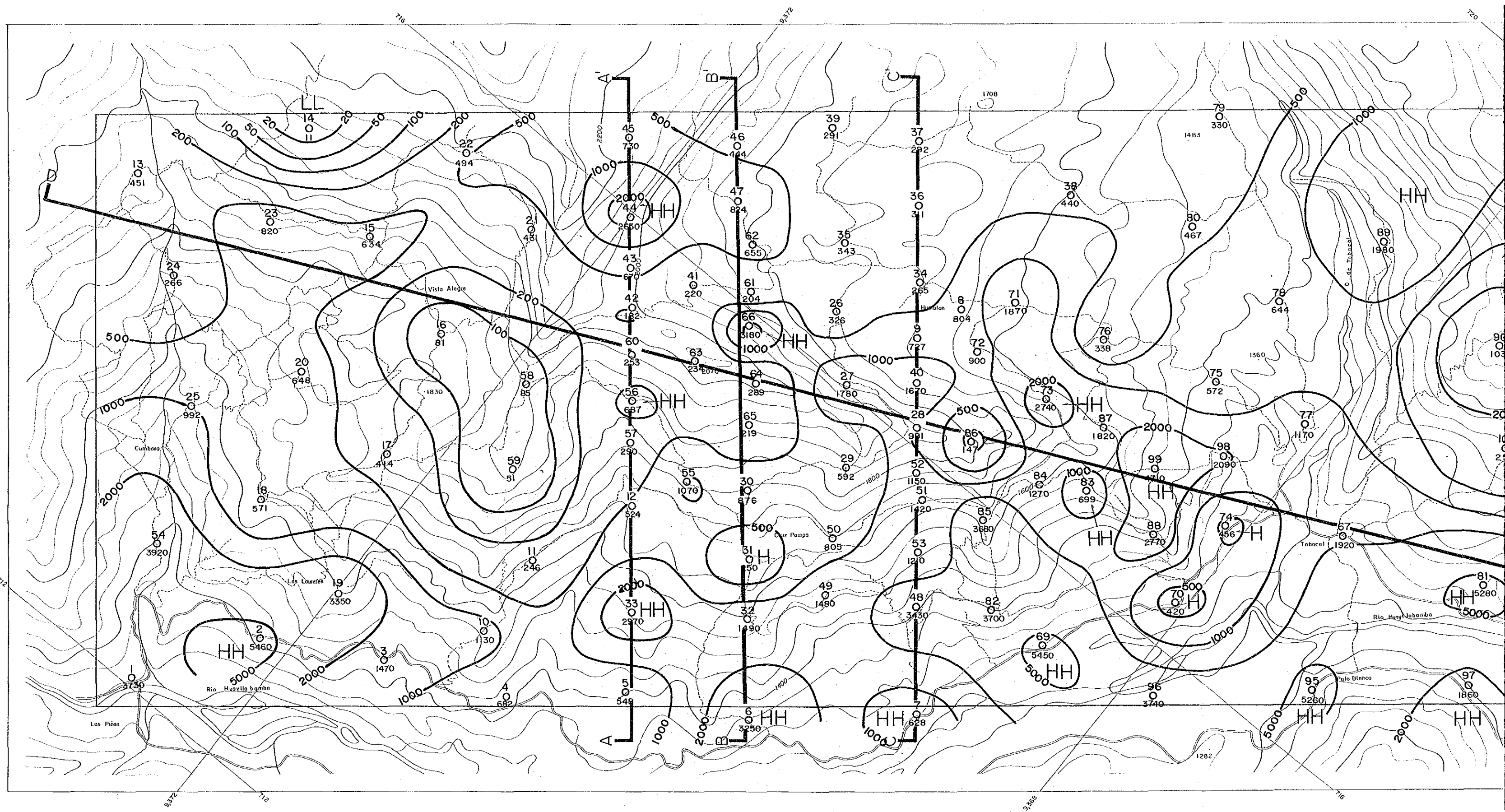


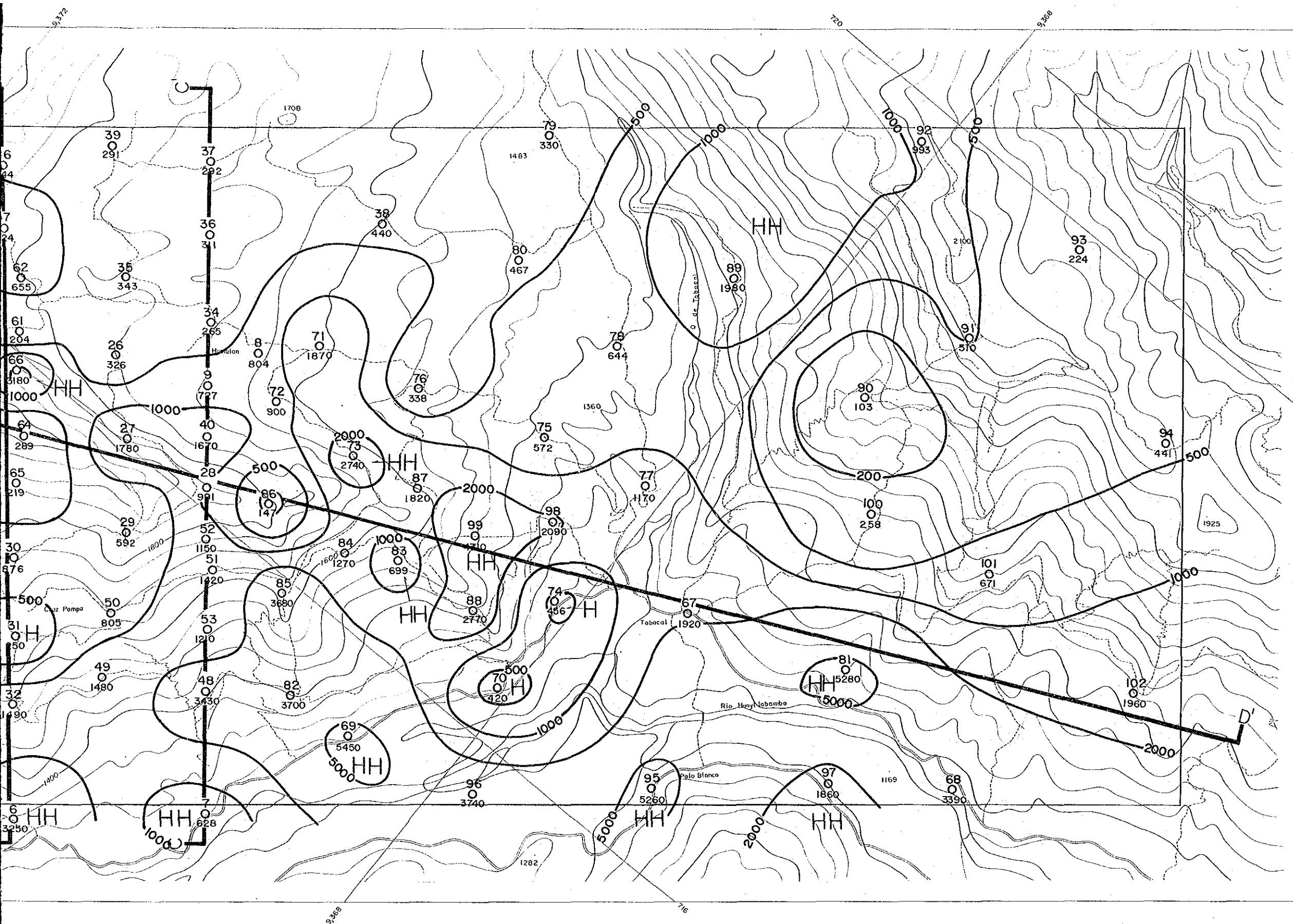
JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
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LEGEND

- 45 Station number
- CSAMT Station
- 202 Apparent Resistivity (Ω.m)
- A A' Cross Section
- 10 Apparent Resistivity Contour (Ω.m)
- 20 Resistivity Contour (Ω.m)
- 50 Contour (Ω.m)







THE MINERAL EXPLORATION
IN
THE PACHAPIRIANA AREA, REPUBLIC OF PERU
(PHASE II)

PL-9(4) Apparent Resistivity Map
of the chontali Area (4 Hz)

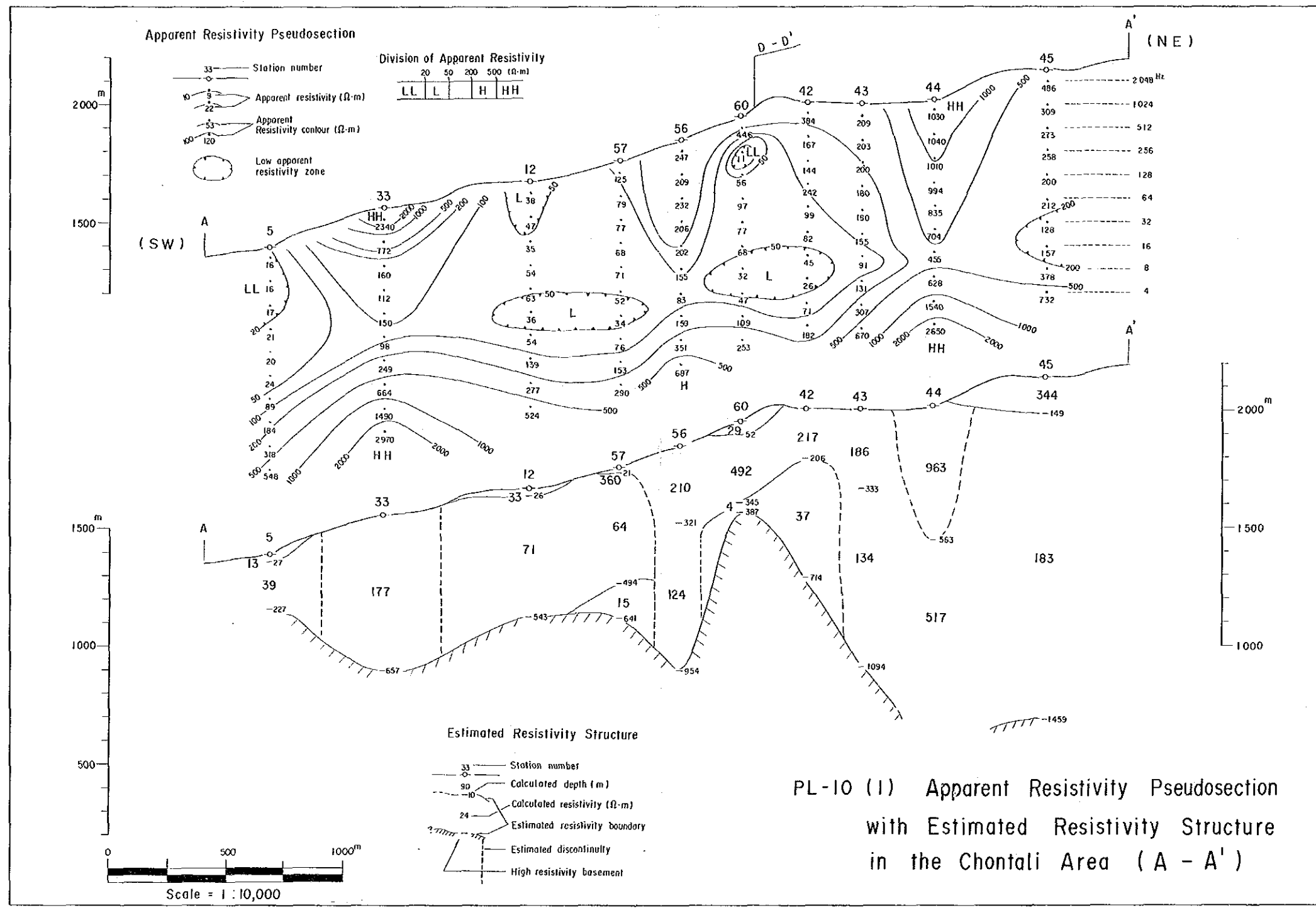
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
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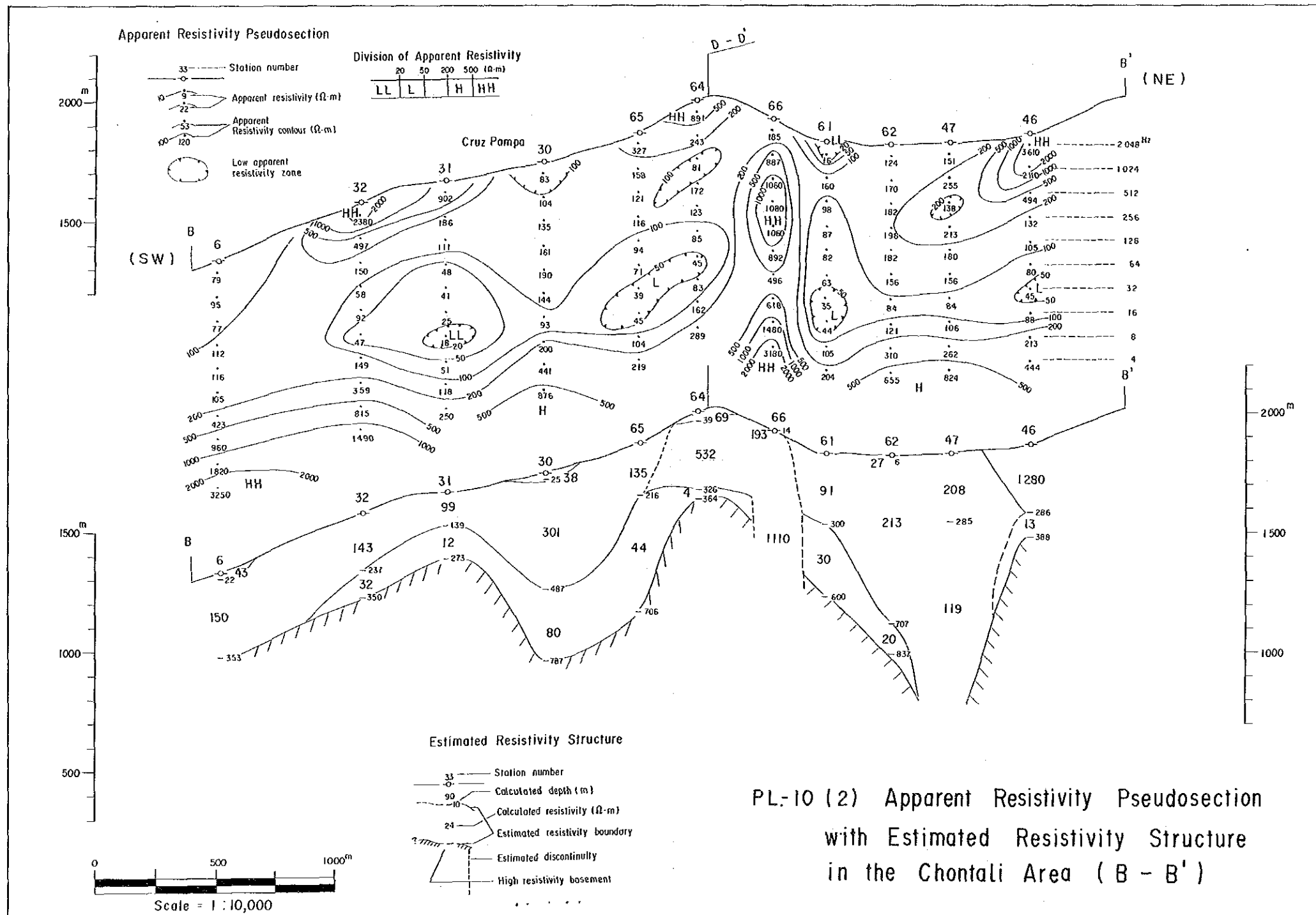
LEGEND

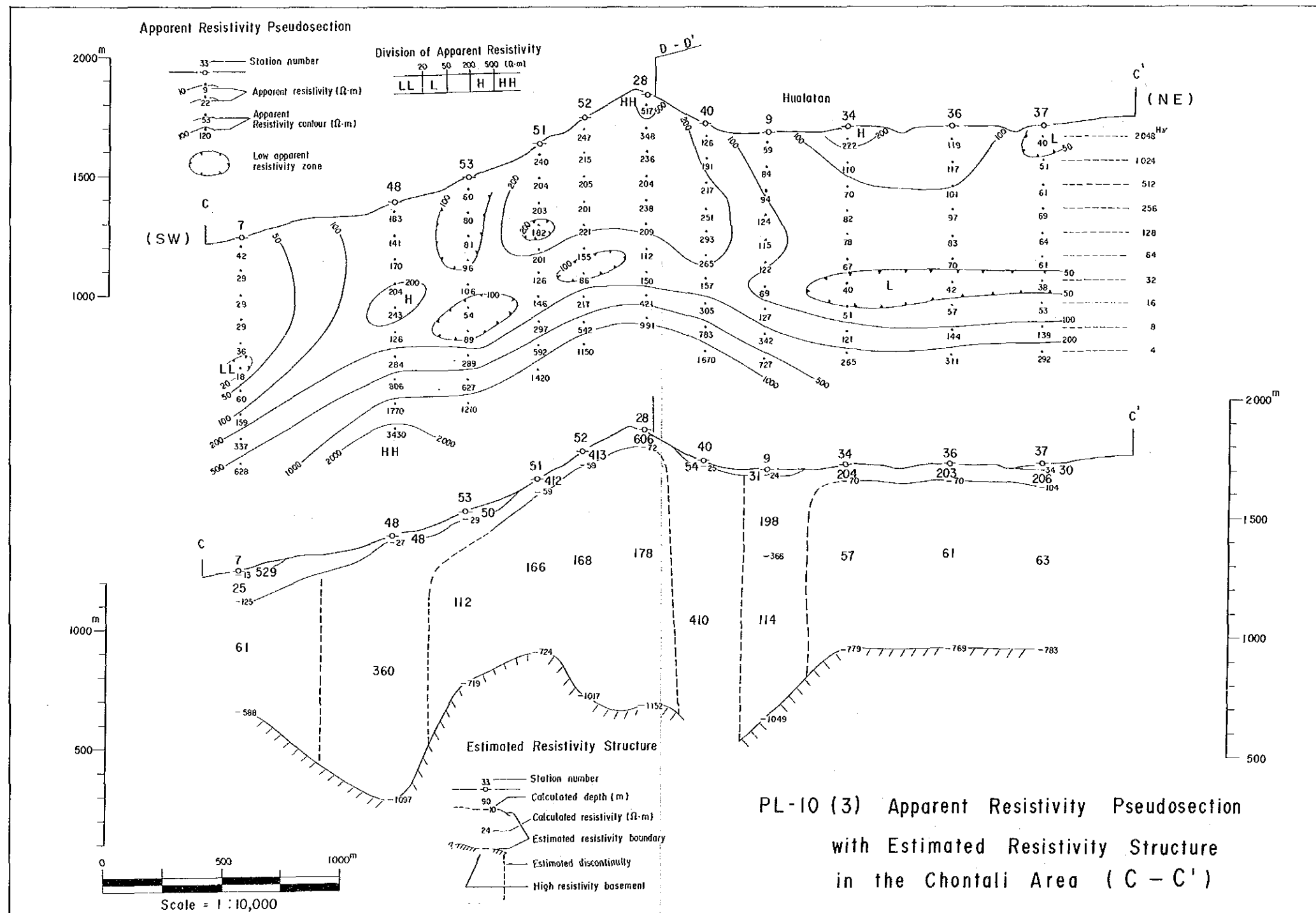
- 45 Station number
- CSAMT Station
- 202 Apparent Resistivity (n.m)
- A A' Cross Section
- 10 Apparent Resistivity
- 20 Resistivity
- 50 Contour (n.m)

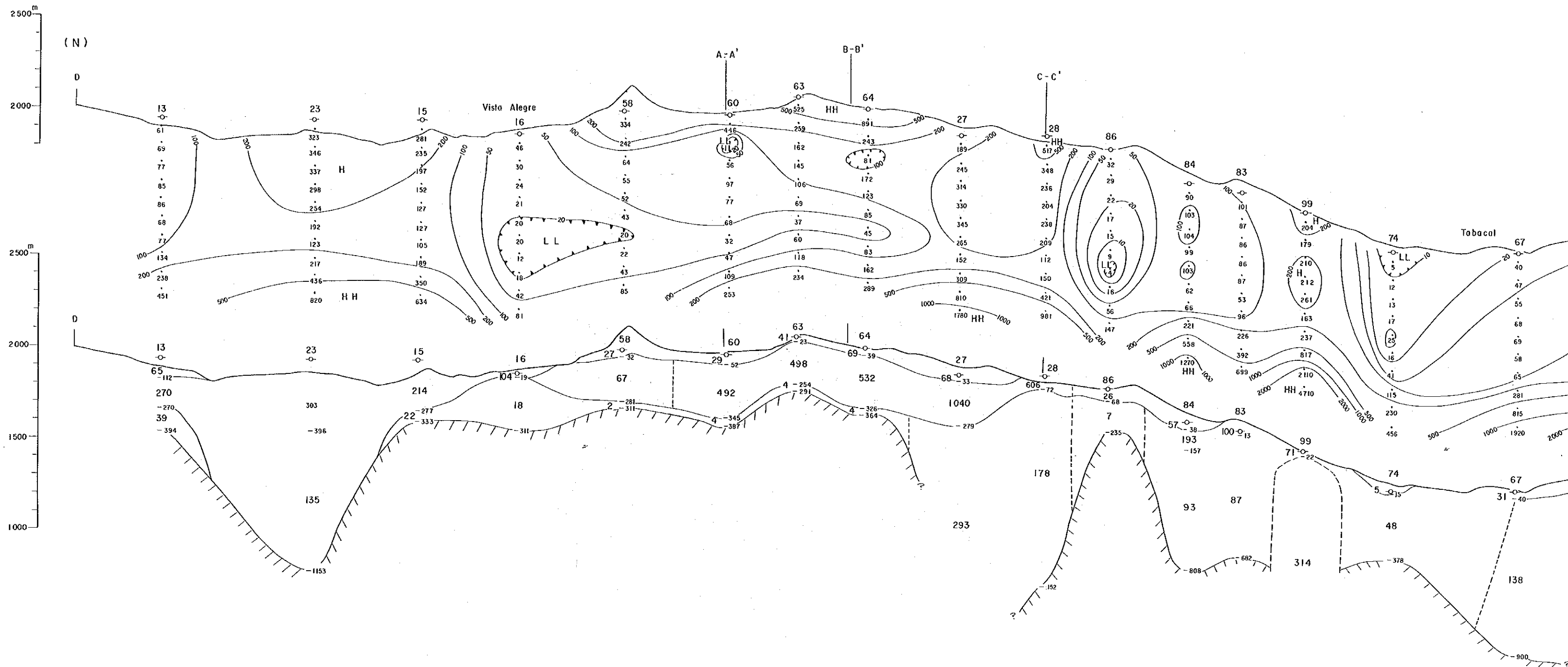
Division of Apparent Resistivity
20 50 200 500 (n.m)
LL L H HH

0 500 1000 m
Scale = 1 : 10,000







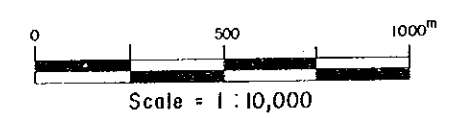


LEGEND

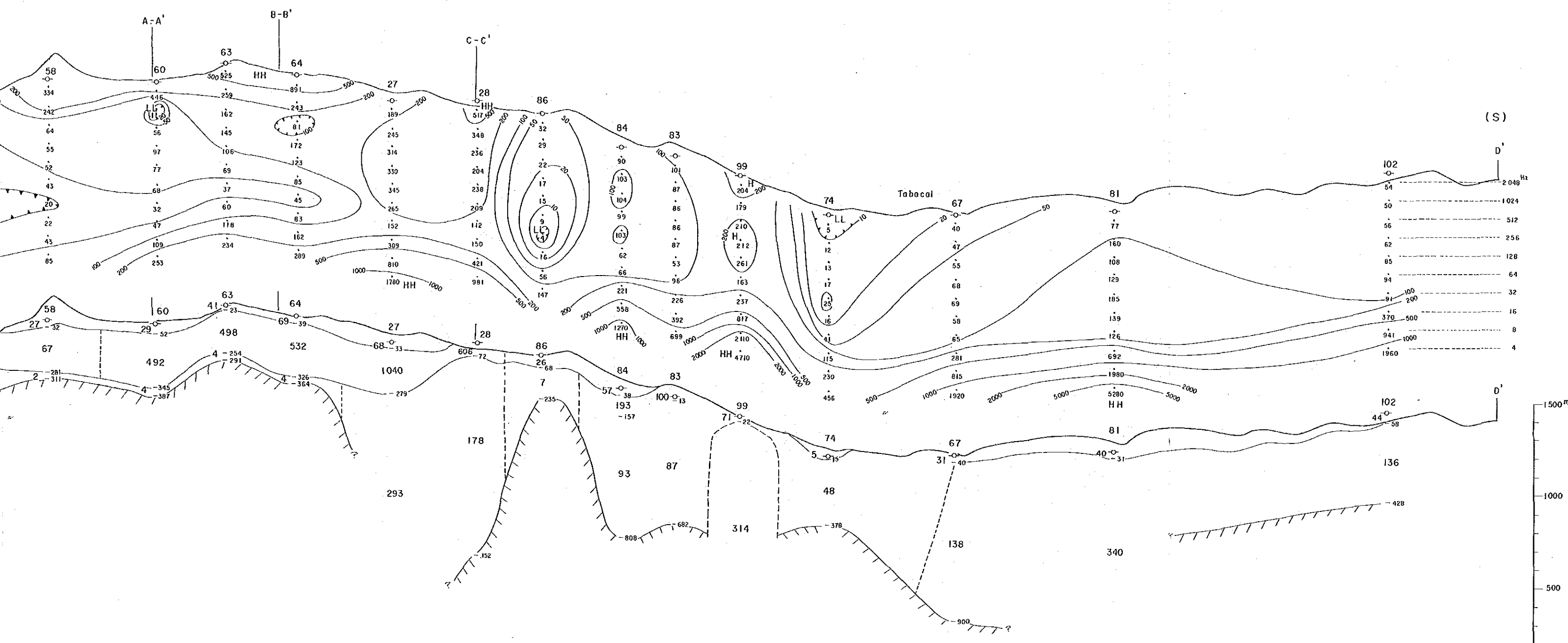
- | Apparent Resistivity Pseudosection | Estimated Resistivity Structure |
|---|---|
| <ul style="list-style-type: none"> ○ Station number ○ Apparent resistivity ($\Omega\cdot m$) ○ Apparent Resistivity contour ($\Omega\cdot m$) ○ Low apparent resistivity zone | <ul style="list-style-type: none"> ○ Station number ○ Calculated depth (m) ○ Calculated resistivity ($\Omega\cdot m$) ○ Estimated resistivity boundary ○ Estimated discontinuity ○ High resistivity basement |

Division of Apparent Resistivity

20	50	200	500 ($\Omega\cdot m$)
LL	L	H	HH



PL-10 (4) Apparent
with Estimate
in the Chontal



Legend

Station number

Calculated depth (m)

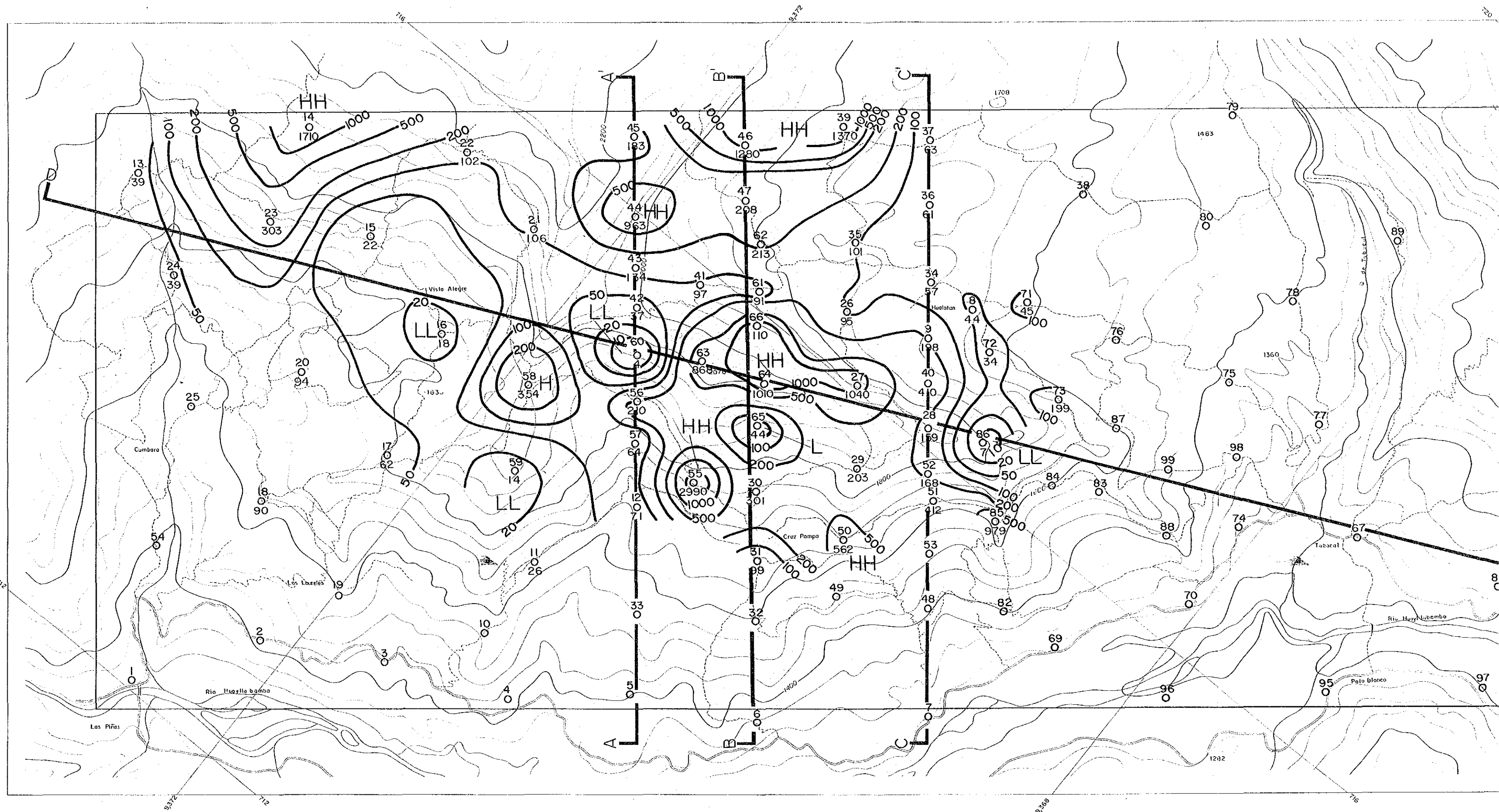
Calculated resistivity ($\Omega\cdot m$)

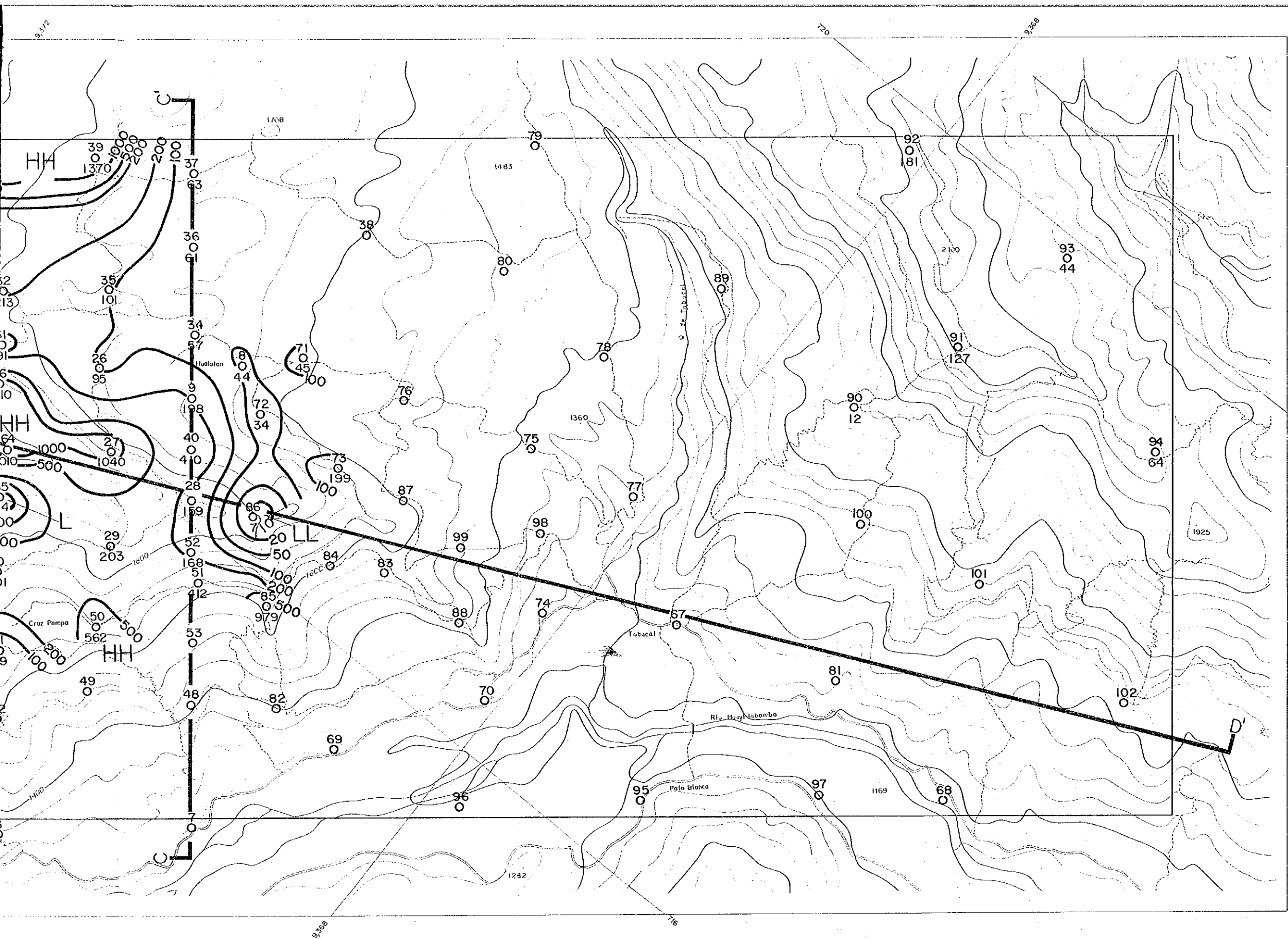
Estimated resistivity boundary

Estimated discontinuity

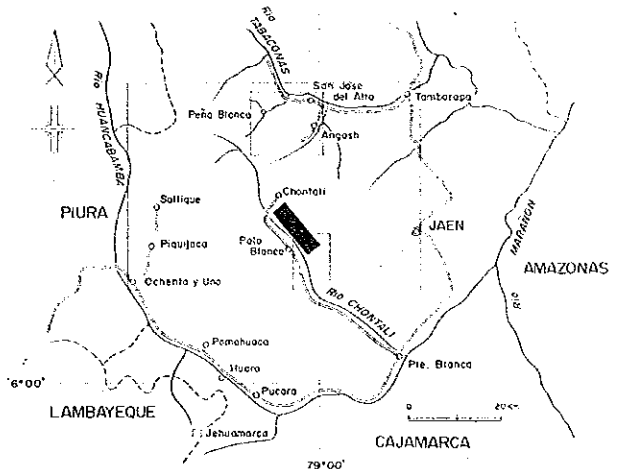
High resistivity basement

PL-10 (4) Apparent Resistivity Pseudosection
with Estimated Resistivity Structure
in the Chontali Area (D - D')



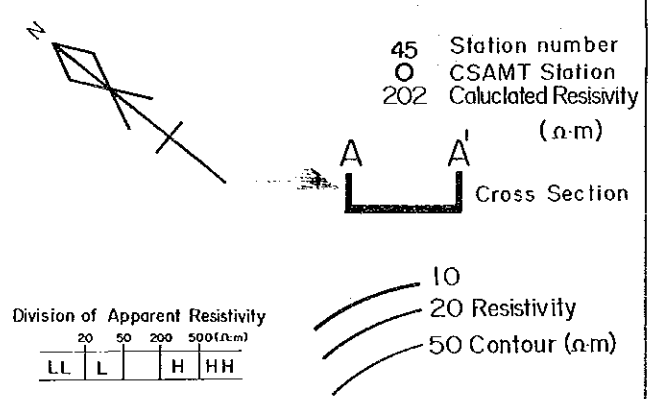


THE MINERAL EXPLORATION
 IN
 THE PACHAPIRIANA AREA, REPUBLIC OF PERU
 (PHASE II)
 PL-II(I) Resistivity Structure Map
 of the Chontali Area (+1,600m)

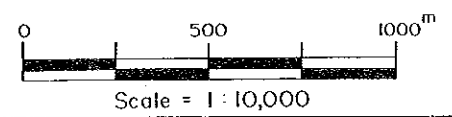


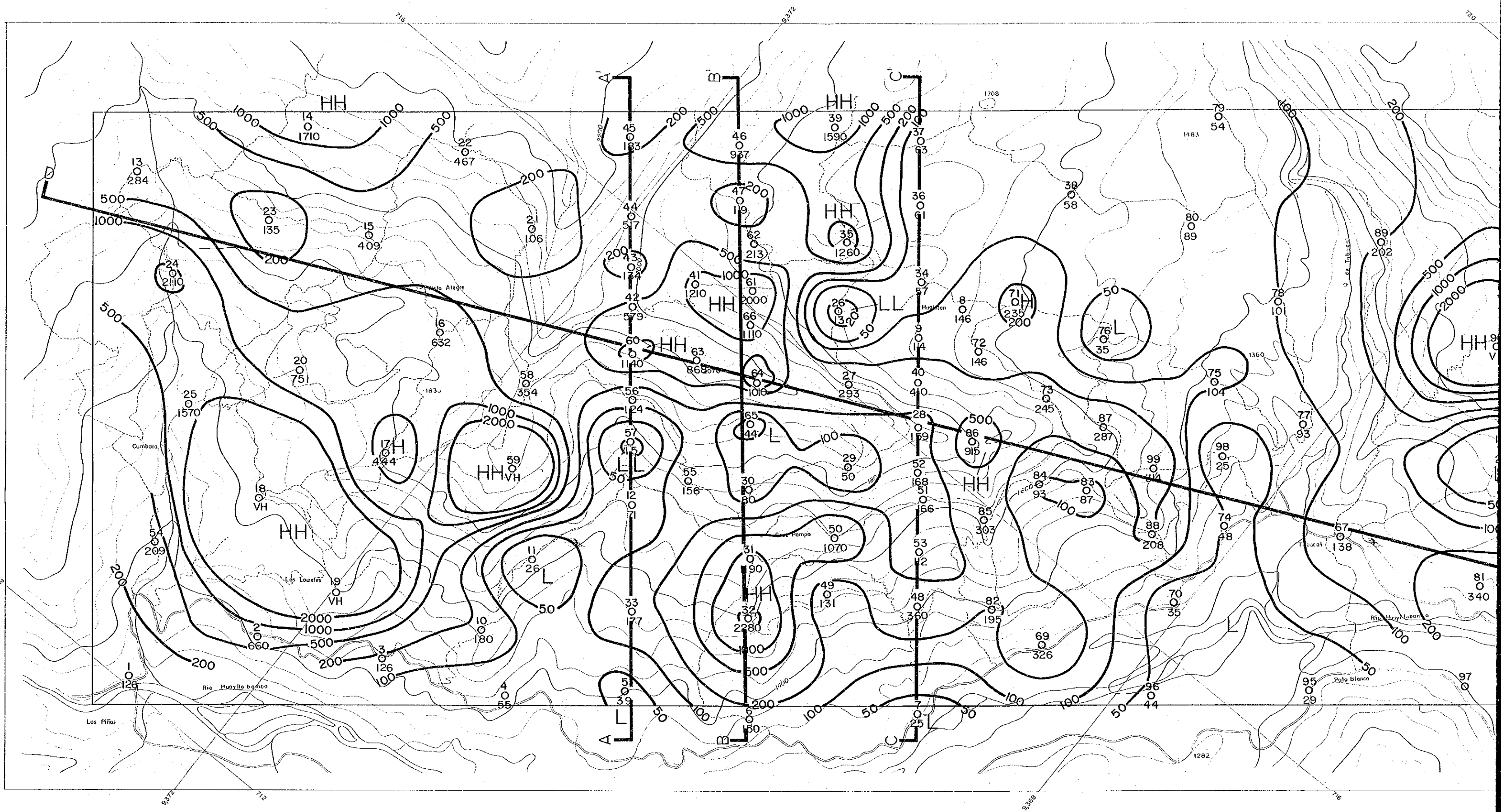
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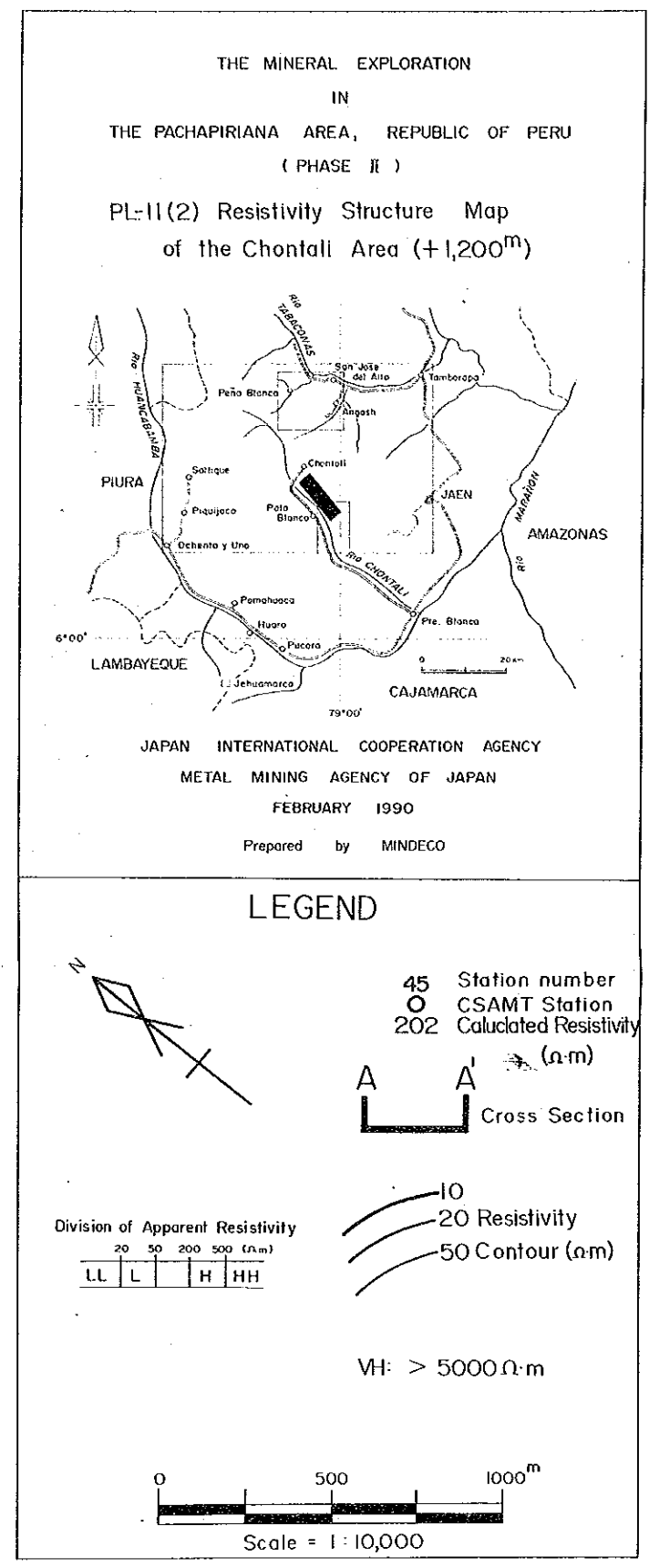
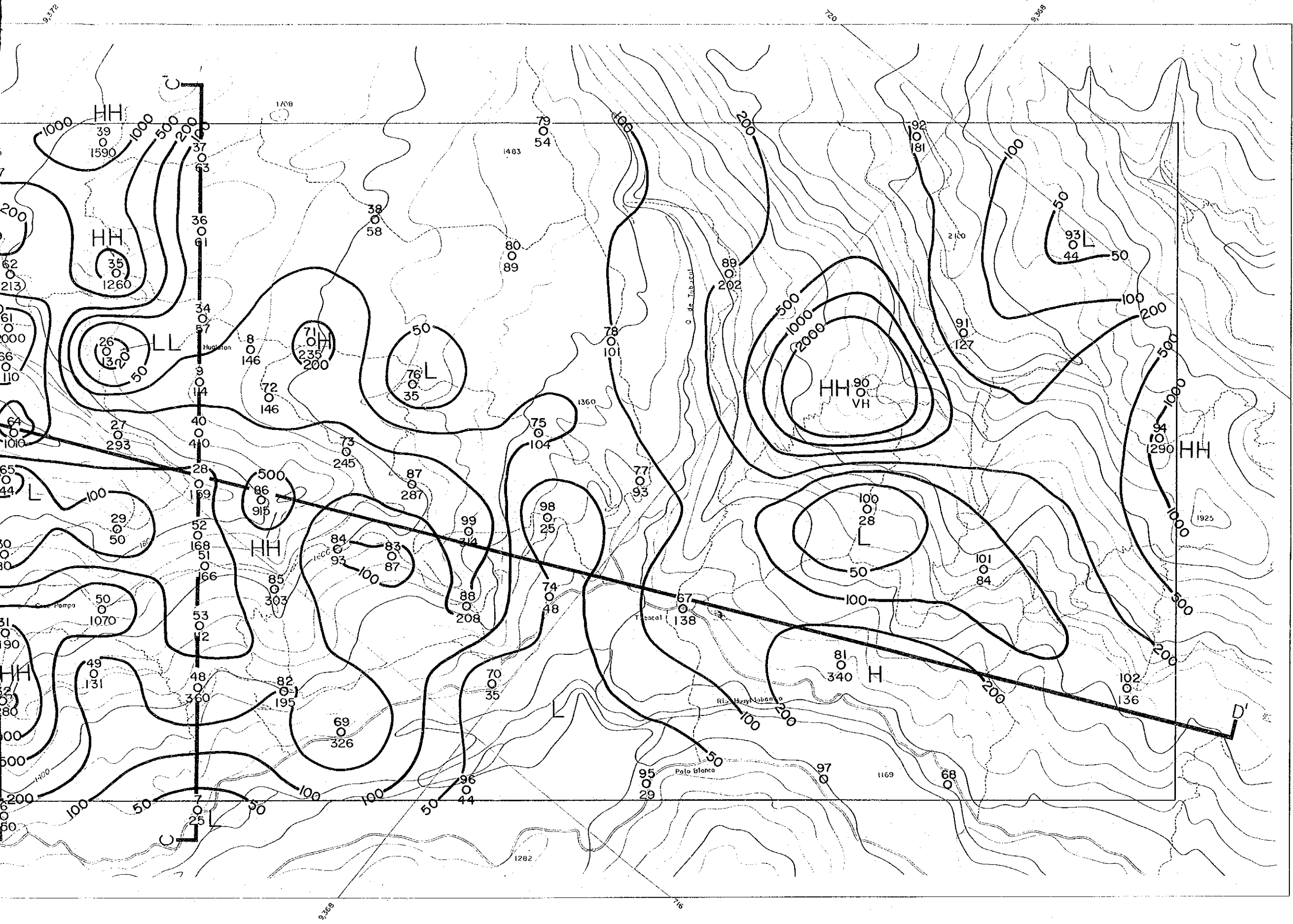
LEGEND



Division of Apparent Resistivity
 20 50 200 500(Ω.m)
 LL L H HH



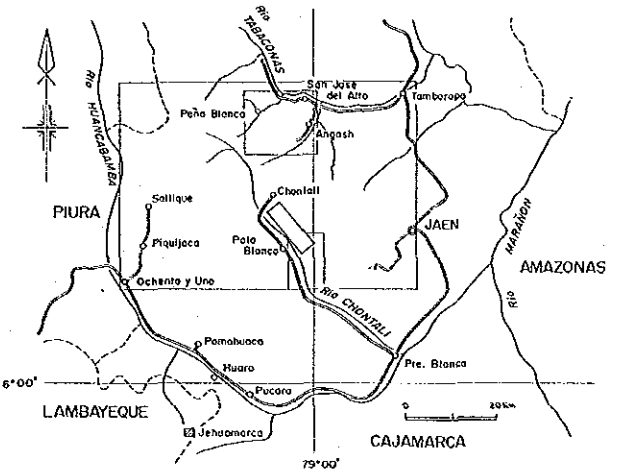




Symbol	Depth	Observation	Fracture	Alteration					Mineralization					Assay								
				Sil	Arg	Chl	Py	Sp	Py	Chl	Sp	Ga	Au	Ag	Cu	Pb	Zn	Mo				
		(soil)																				
	298	weathering tp-ff soil																				
	25	limo v-fst 0.2cm																				
		weathering tp-ff wk chl																				
		leached Z																				
		limo tp-ff																				
	250	chl tp-ff																				
	250	chl zone (fault?)																				
	30	limo Qtz 1.5cm																				
	30	limo dr-Qtz 0.7cm																				
	30	wk Arg chl ff																				
	30	dr Qtz Sp Py 0.2cm																				
	30	dr Qtz Sp Py 0.2-1.0cm																				
	30	wk Sil wk Arg chl tp-ff																				
	30	dr Qtz Sp Py 0.4cm																				
	30	Sil sh 1.5cm																				
	30	dr Qtz Sp Py 0.6cm																				
	30																					
	30	dr Qtz Sp Py 0.8cm																				
	30	dr Qtz Sp Py 0.4cm																				
	30	sh																				
	30	white clay Sp 0.2cm																				
	30	dr Qtz Sp Py 0.5cm																				
	30	dr Qtz chl Sp Py 1cm																				
	30	dr Qtz chl Sp Py 0.3cm																				
	30	dr Qtz Sp Py 1cm																				
	30	dr Qtz Sp Py 0.5cm																				
	30	dr Qtz Sp Py 0.3cm																				
	30	if bearing II sh foliation																				
	30	if shbearing if (unwatered)																				
	30	dr Qtz Sp Py 0.2cm																				
	30	dr Qtz white clay Sp Py 0.6cm																				
	30	dr Qtz Sp Py 0.2cm																				
	30	dr Qtz Sp Py 0.2cm																				
	30	dr Qtz Sp Py Ga 0.2cm																				
	30	if sh																				
	30	drusy Qtz vein																				
	30	intercalated Sil-sh bearing																				
	30	hanging side 35cm																				
	30	leached zone																				
	30	Sample 62.6																				
	30	clay 0.6cm																				
	30	Sil wk Arg chl tp-ff																				
	30	dr Qtz Sp 0.2cm																				
	30	dr Qtz Sp Py 0.4cm																				
	30	wk Sil wk Arg chl ff																				
	30	clay with breccia 4cm																				
	30	dr Qtz Sp Py 0.5cm																				
	30	faulty intercalated bed plane																				
	30	Sil wk Arg chl tp-ff																				
	30	dr Qtz chl Sp Py 0.6-1.0cm																				
	30	Sil Arg wk chl ff (600ft?)																				
	30	Sil Arg wk chl ff																				
	30	Sil Arg wk chl tp-ff grey clay 1cm																				
	30	Sil Arg wk chl tp-ff																				
	30	white clay 3cm																				
	30	dr Qtz Py tect 0.2cm																				
	30	Qtz Py 0.5-1.2cm																				
	30	Qtz clay Sp Py 0.2cm																				
	30	dr Qtz Sp Py tect 0.2cm																				
	30	Sil Arg brecciated tp-ff																				
	30	Sil Arg tp-ff																				
	30	Qtz v. Pyrich with Sp																				
	30	Sil wk Arg tp-ff																				
	30	dr Qtz clay Sp 5cm																				
	30	Sil Arg chl tp-ff																				
	30	Sil Arg tp-ff																				
	30	dr Qtz Py Sp 0.4cm																				
	30	dr Qtz Py Sp 0.4cm																				
	30	Qtz white clay Sp Py 0.8cm																				
	30	Sil Arg tp-ff																				
	30																					
	30	dr Qtz Py Sp 0.3cm																				
	30	dr Qtz Py Sp 0.2cm																				

Symbol	Depth	Observation	Fracture	Alteration					Mineralization					Assay								
				Sil	Arg	Chl	Py	Sp	Py	Chl	Sp	Ga	Au	Ag	Cu	Pb	Zn	Mo				
		Sil Arg tp-ff chl clay Py Sp 0.3cm																				
		dr-Qtz Py Sp 0.8cm																				
		dr-Qtz Sp Py 0.3cm																				
		Sil Arg chl tp-ff dr Qtz white clay Py Sp 0.4cm																				
		Sil Arg tp-ff																				
		Sil Arg chl ff																				
		clay Py Sp 0.6cm																				
		Sil Arg ff																				
		breccia bearing clay 15cm																				
		Sil chl laminated tp-ff																				
		270																				
		Sil Arg ff																				
		Qtz clay Py Sp 10-15cm																				
		dr Qtz chl Py Sp 1.0cm																				
		Sil Arg ff																				
		Qtz clay Py Sp 0.5cm																				
		clay Py Sp 0.3cm																				
		wk limo																				
		clay Py Sp 0.2cm																				
		clay Py Sp 0.2cm																				
		Sil Arg chl ff																				
		Qtz Py Sp 1cm																				
		black clay fem																				
		dr-Qtz Py Sp 0.5cm																				
		dr-Qtz Sp Py 0.3cm																				
		dr-Qtz Sp Py 1.2cm																				
		Sil Arg chl tp-ff																				
		Sil wk Arg tp-ff																				
		Sil Arg tp-ff																				
		dr Qtz Py Sp 0.5cm																				
		Qtz clay Py Sp 0.8cm																				
		Sil Arg chl tp-ff (relatively fresh dacitic tp-ff)																				
		250																				
		dr-Qtz Sp Py 0.3-0.8cm																				
		Sil Arg chl tp-ff																				
		Qtz clay Py Sp 0.2cm																				
		fault breccia with clay, post																				

THE MINERAL EXPLORATION IN THE PACHAPIRIANA AREA, REPUBLIC OF PERU (PHASE II) CORE LOG in the JEHUAMARCA AREA MJPJ - 1



JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN FEBRUARY 1990 Prepared by MINDECO

Location : 9°32'6.058" N , 69°52'05.5" E Elevation : 3227.32 m Direction : --- Inclination : -90°

LEGEND section defining symbols for alteration intensity (weak, moderate, strong, sporadically) and various geological features (shale, tuff, brecciated rock, fault breccia, sheared zone, quartz zone, missing zone, intersected angle of vein, intersected angle of bedding plane) and mineral abbreviations (sh, if, lp-if, if-bre, Sit, Arg, chl, ep, oth, wk, py, Cp, Trh, Sp, Gn, cc, Bn, lmo, Hm, Hb, Qtz, dr, v).

Core log table (left) with columns: Observation, Alteration, Mineralization, Assay (Au, Ag, Cu, Pb, Zn, Mo ppm). Includes lithological descriptions like 'ch clay Py Sp 0.3cm' and assay data.

Core log table (middle) with columns: Symbol, Depth, Observation, Alteration, Mineralization, Assay (Au, Ag, Cu, Pb, Zn, Mo ppm). Includes lithological descriptions like 'Qtz white clay Py Sp 0.6cm' and assay data.

Core log table (right) with columns: Symbol, Depth, Observation, Alteration, Mineralization, Assay (Au, Ag, Cu, Pb, Zn, Mo ppm). Includes lithological descriptions like 'Silt Arg wk chl lp-if' and assay data.