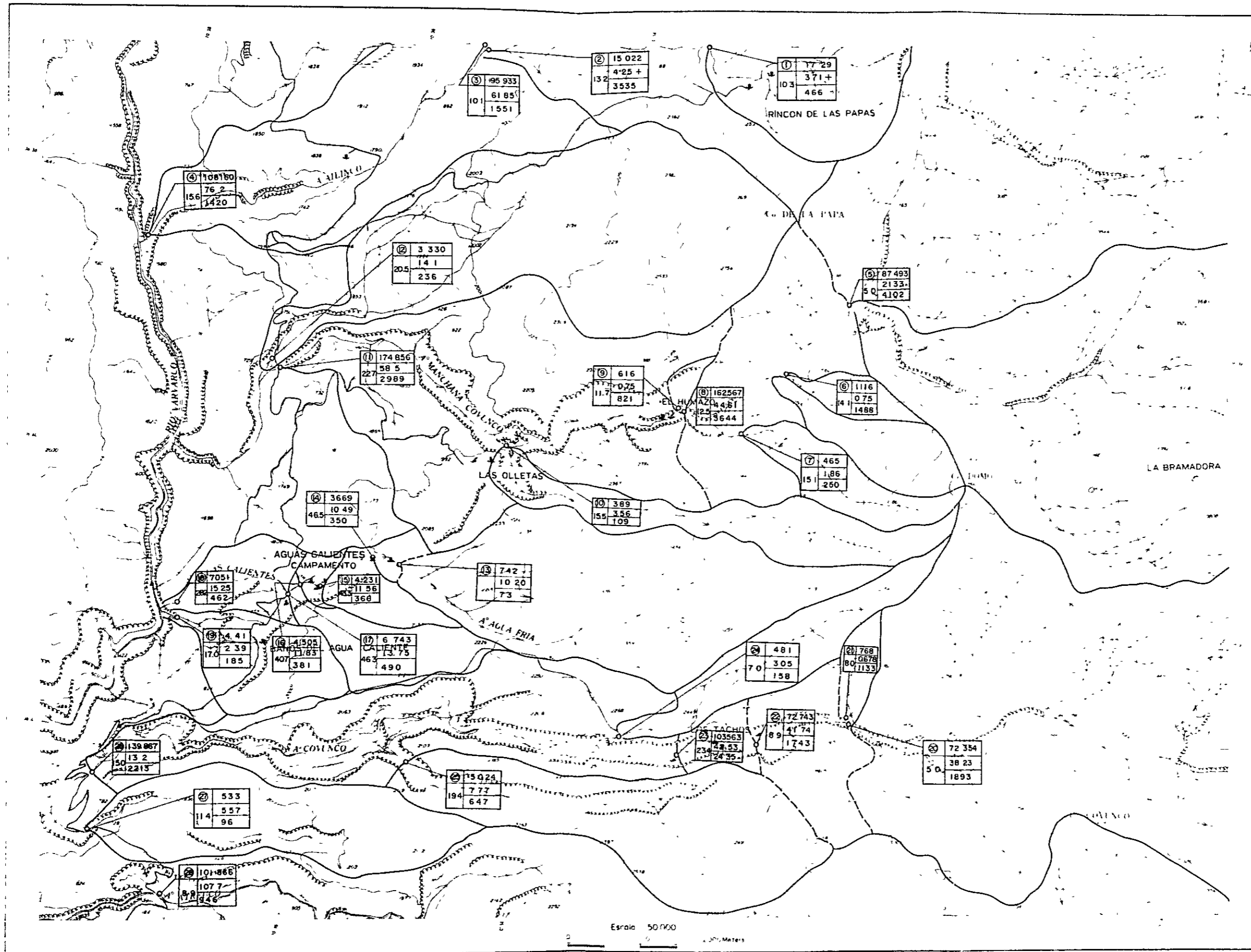


Fig.5-32 Composite map of anomalous areas of ground temperature and Hg - CO₂ geochemistry

6. 調査地域の地熱流体構造



**LEGEND
(REFERENCIAS)**

No	rate of flow (Caudales) m^3/min
Temp (°C)	Contributory area (area) km^2
	Specific rate of flow (Caudales específico) m^3/km^2

Fig.6-1 Location map of measurements of water discharge and calculations of specific rate of flow

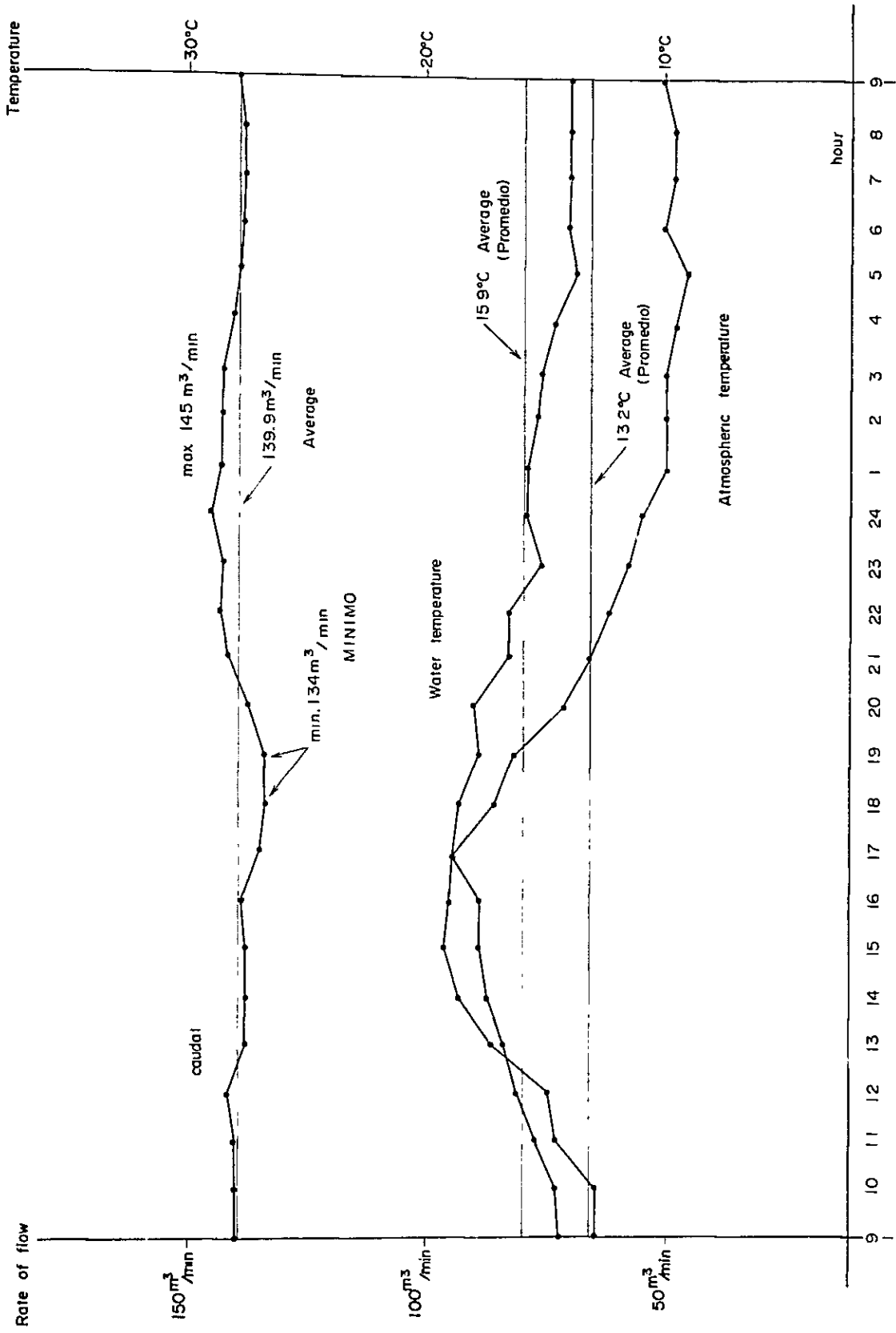


Fig.6-2 Daily variations of discharge, water temperature and atmospheric temperature

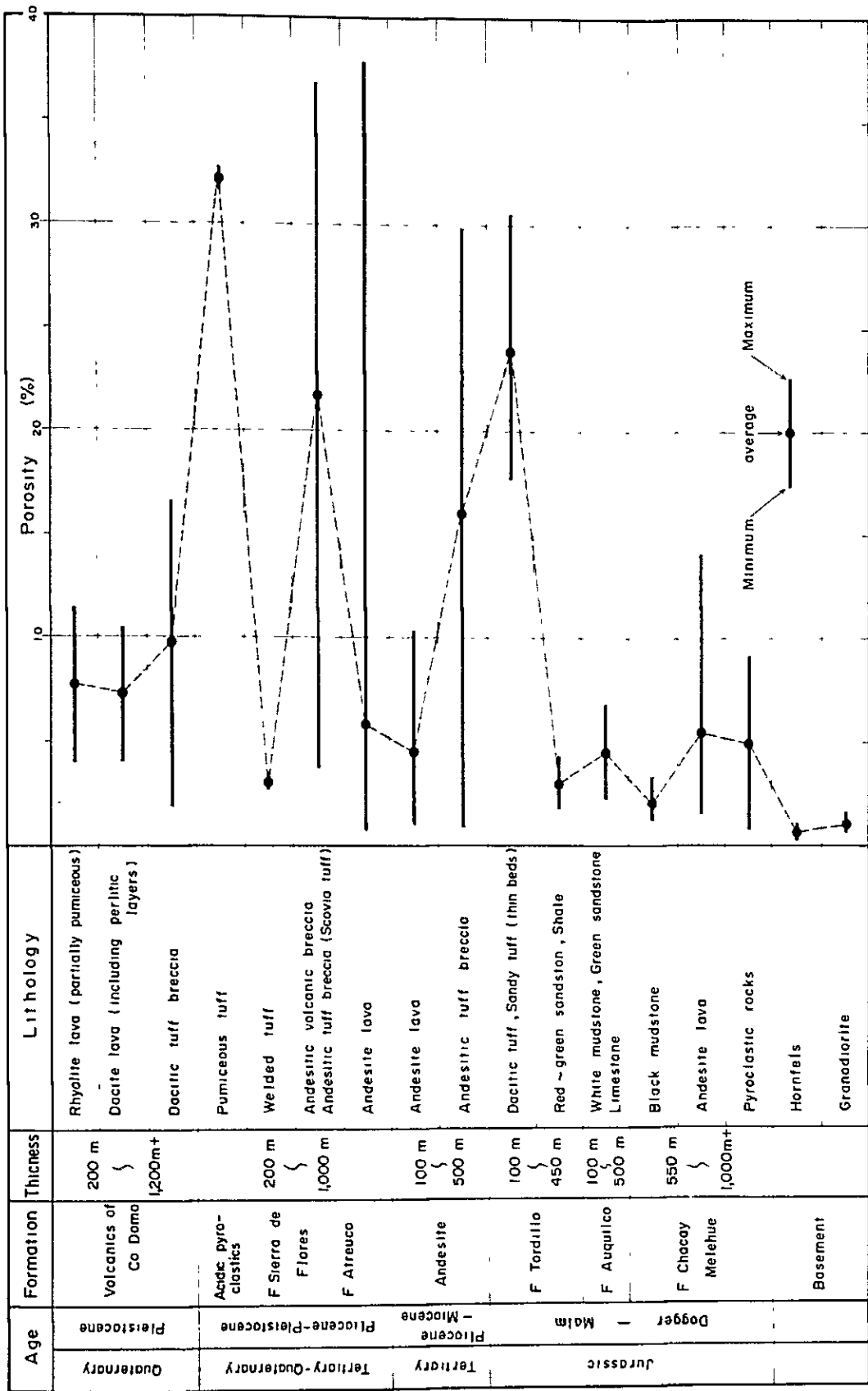


Fig.6-3 Schematic columnar section of effective porosity

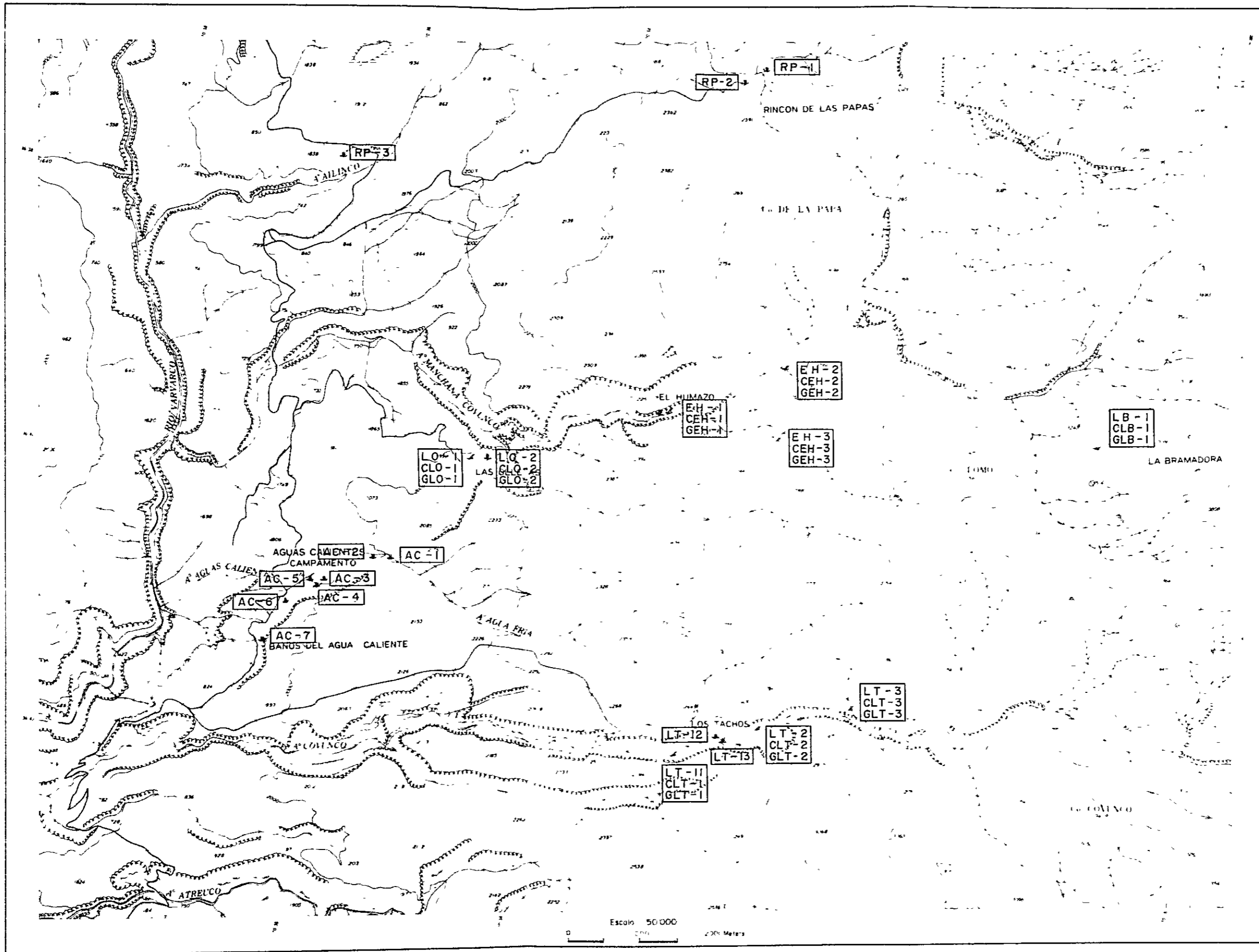


Fig.6-4 Location map of hot water, fumarolic gas and condensed water samplings

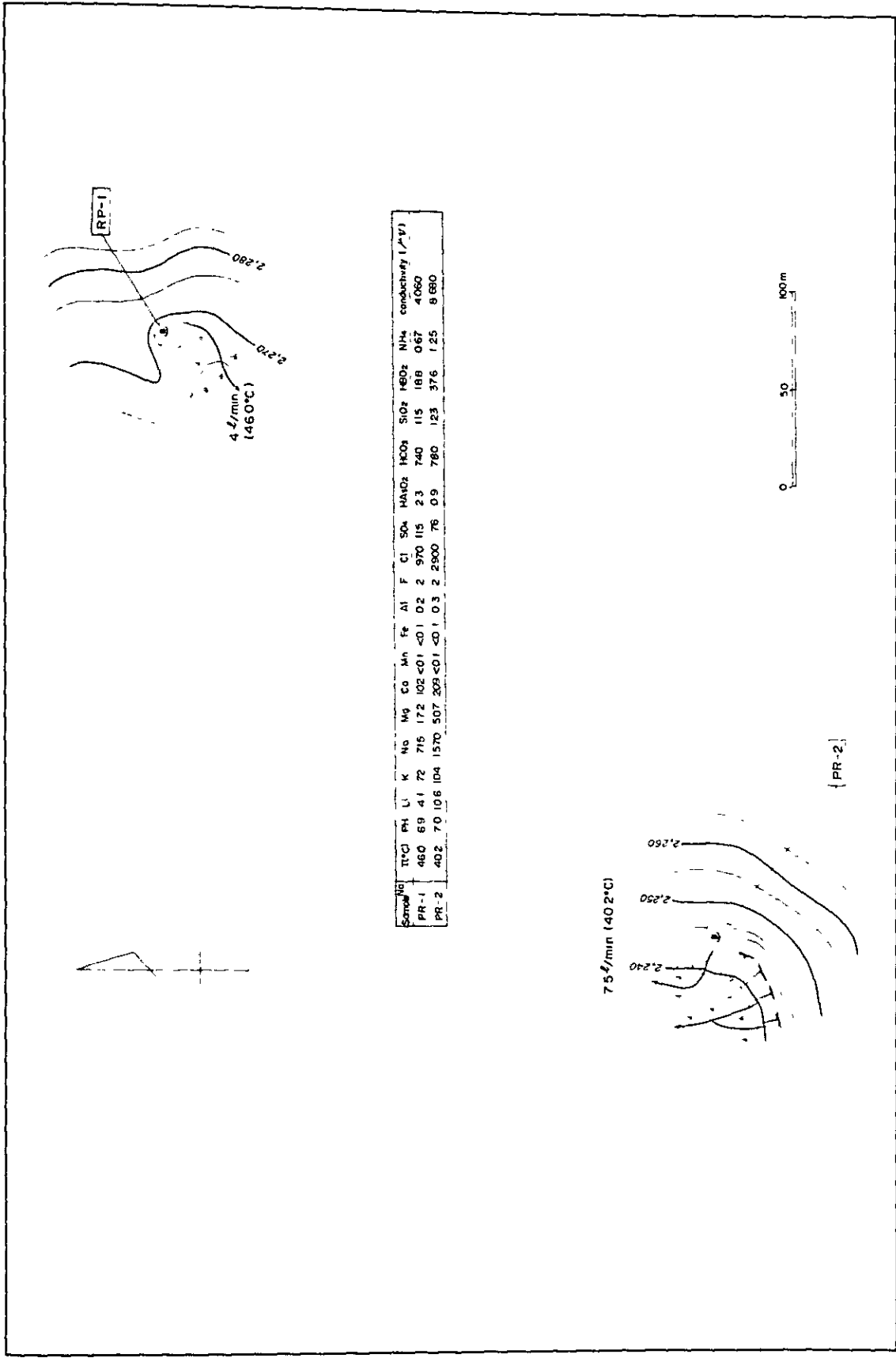


Fig.6-5 Detailed sketch of geothermal manifestation (1) Rincon de Las Papas

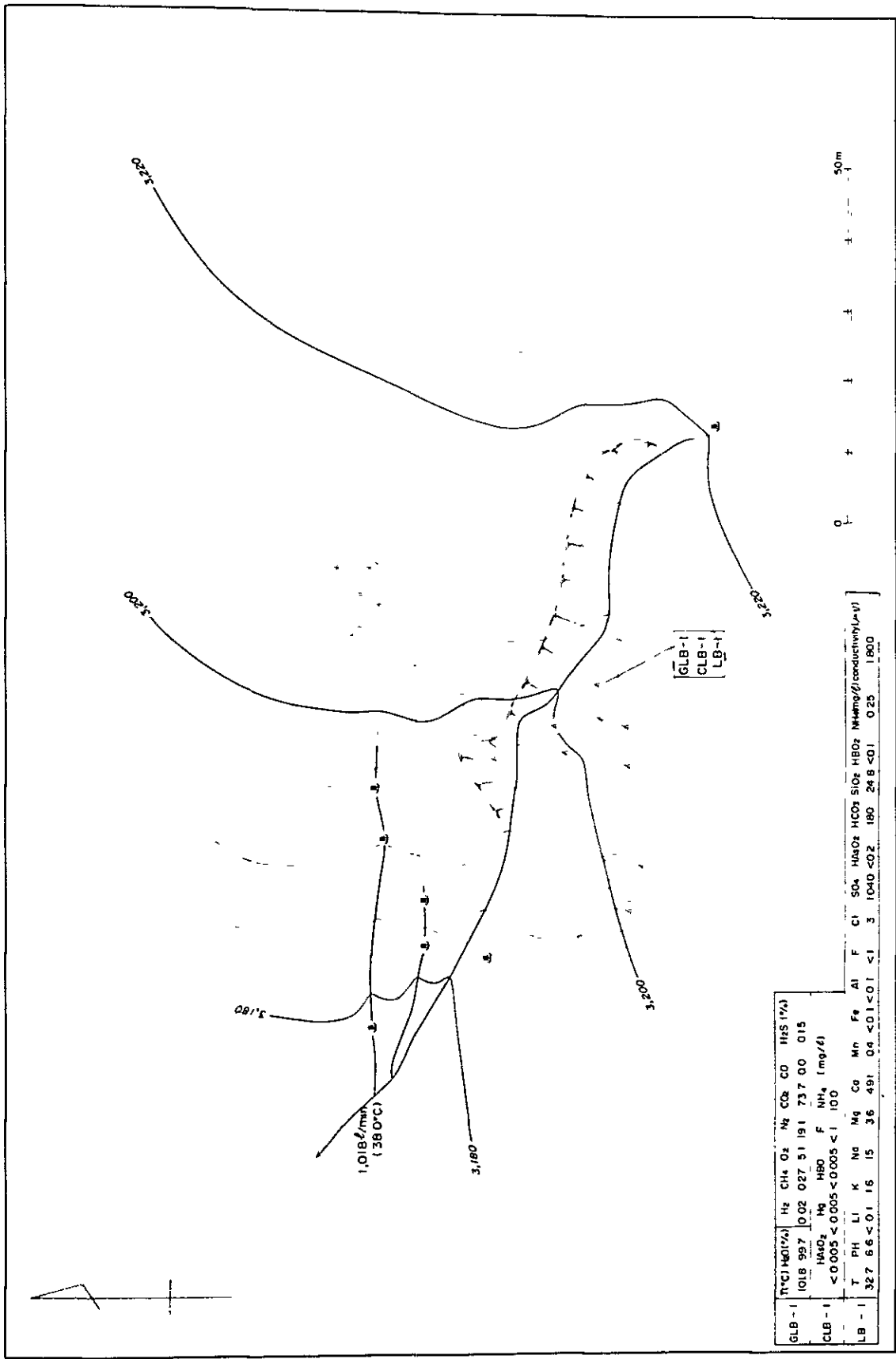


Fig.6-6 Detailed sketch of geothermal manifestation (2) La Bramadora

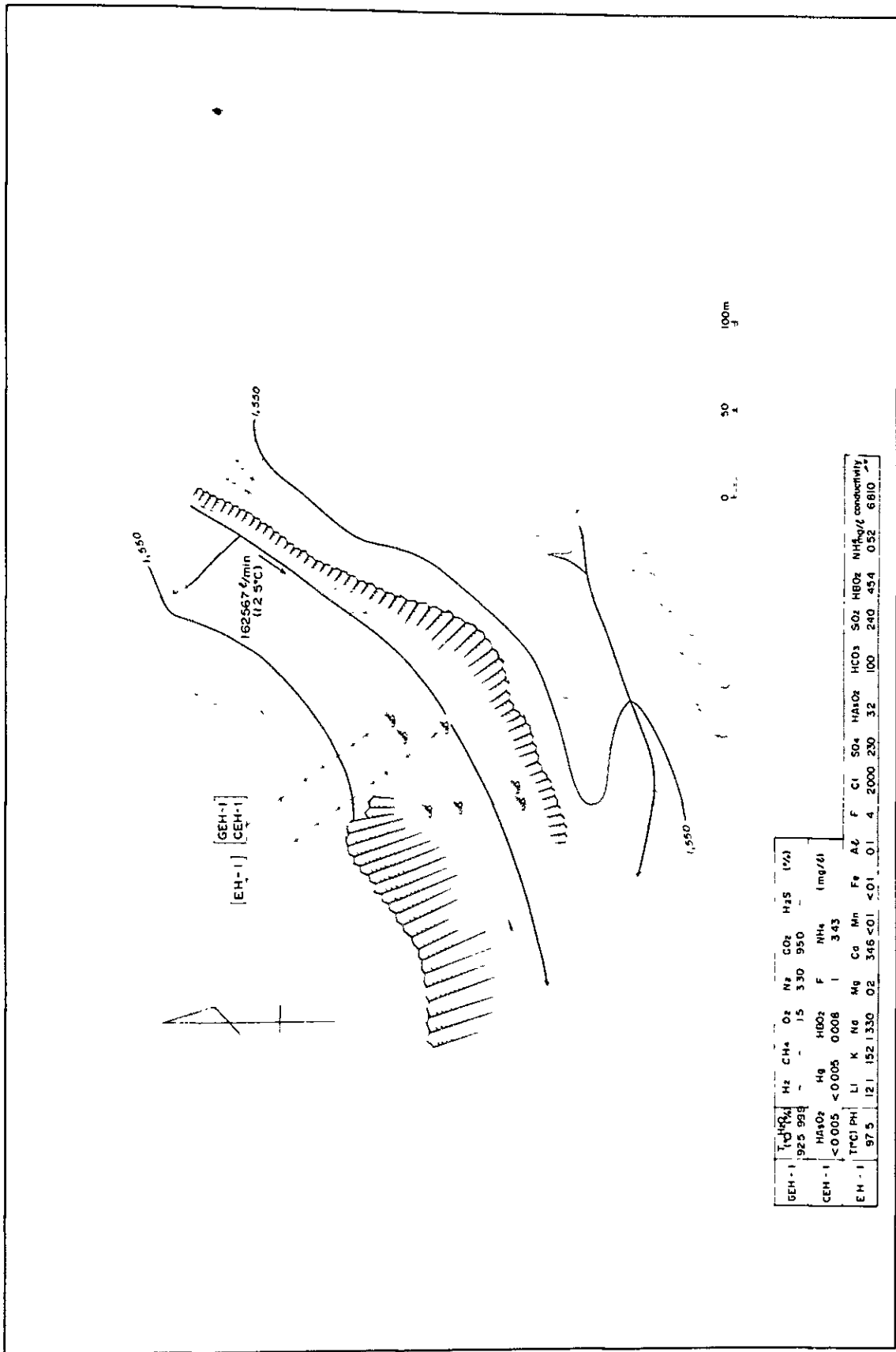


Fig.6-7 Detailed sketch of geothermal manifestation (3) El Humazo - 1

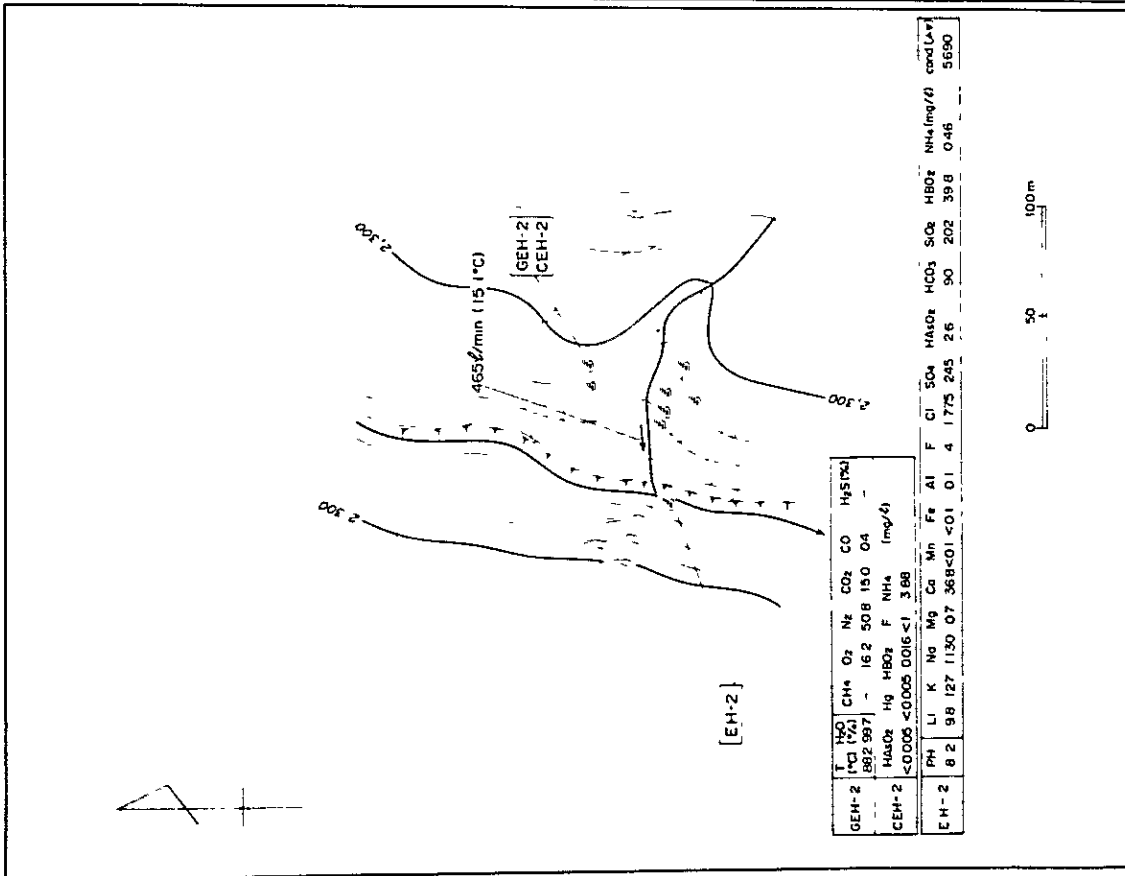


Fig.6-8 Detailed sketch of geothermal manifestation (4) El Humazo - 2

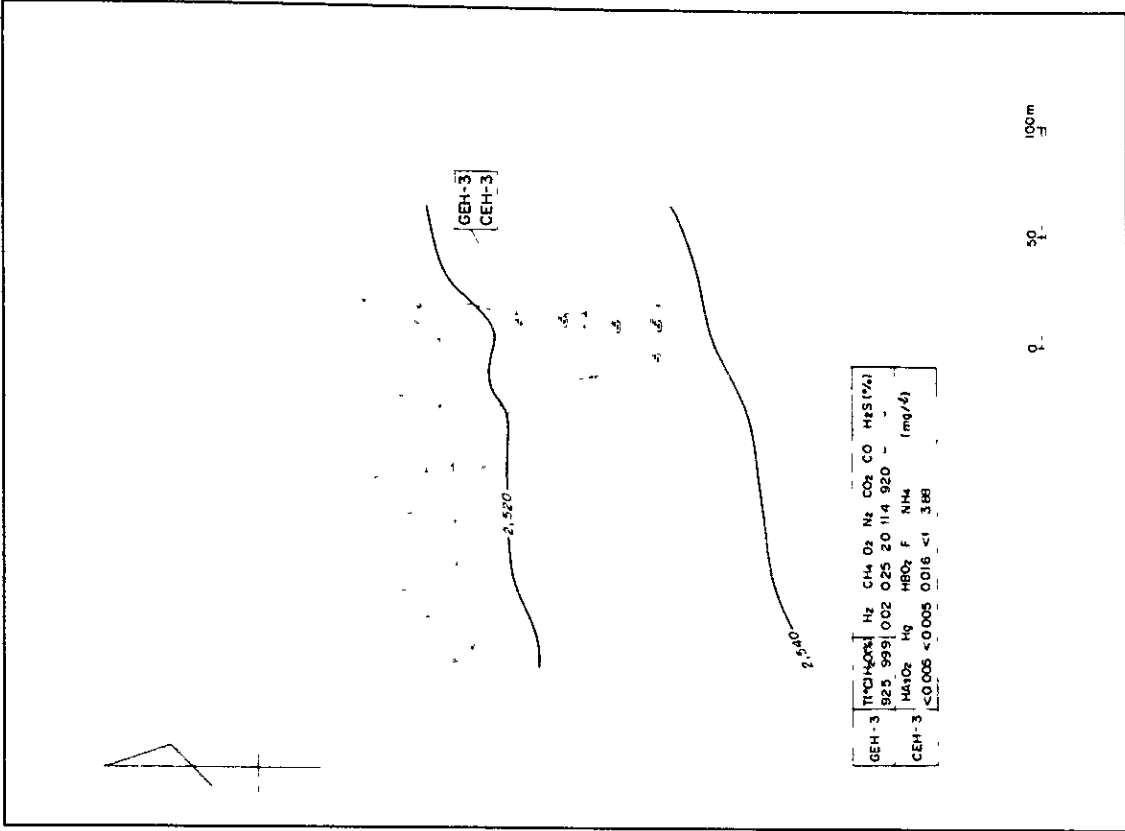


Fig.6-9 Detailed sketch of geothermal manifestation (5) El Humazo - 3

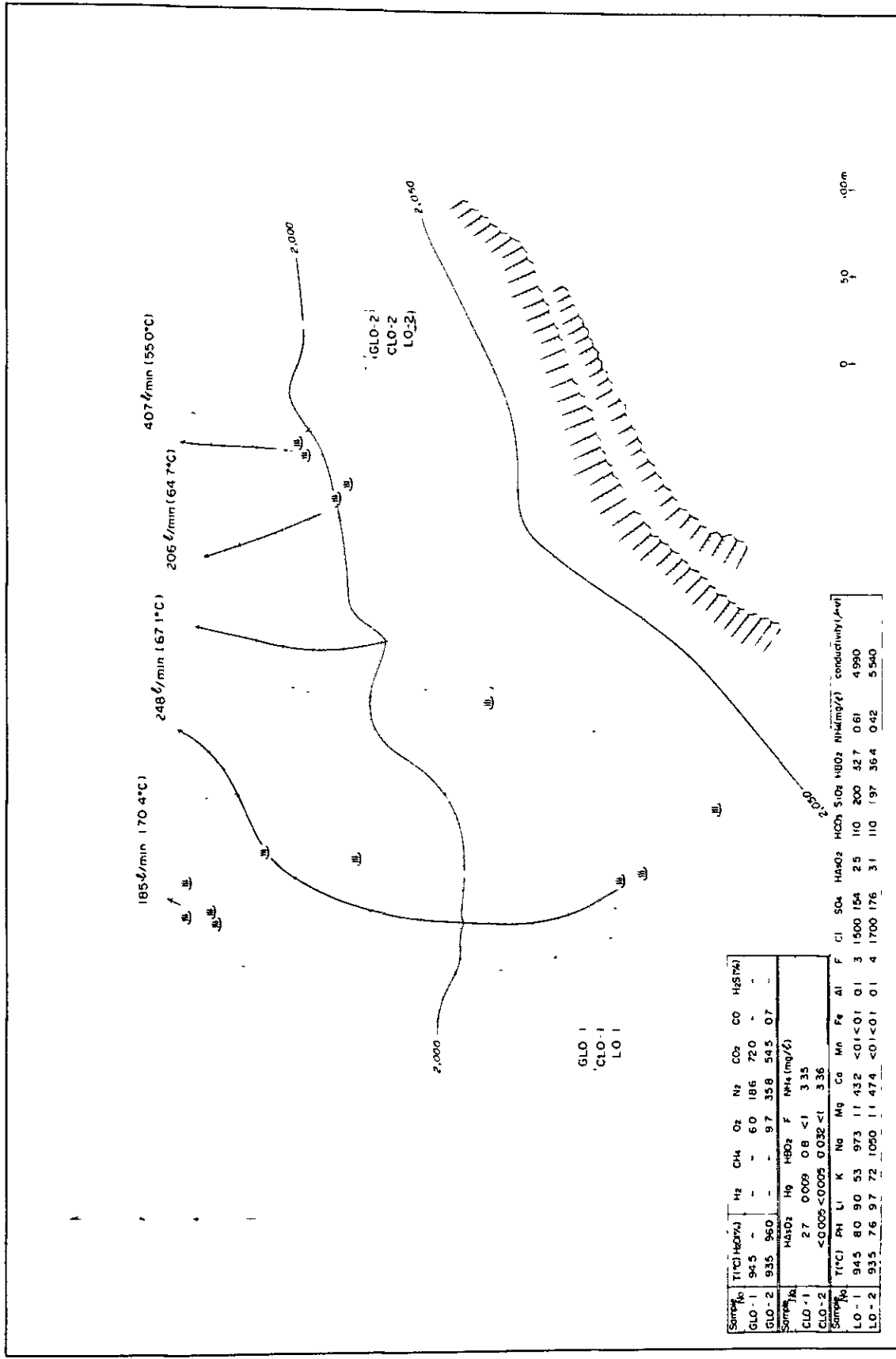


Fig.6-10 Detailed sketch of geothermal manifestation (6) Las Olletas

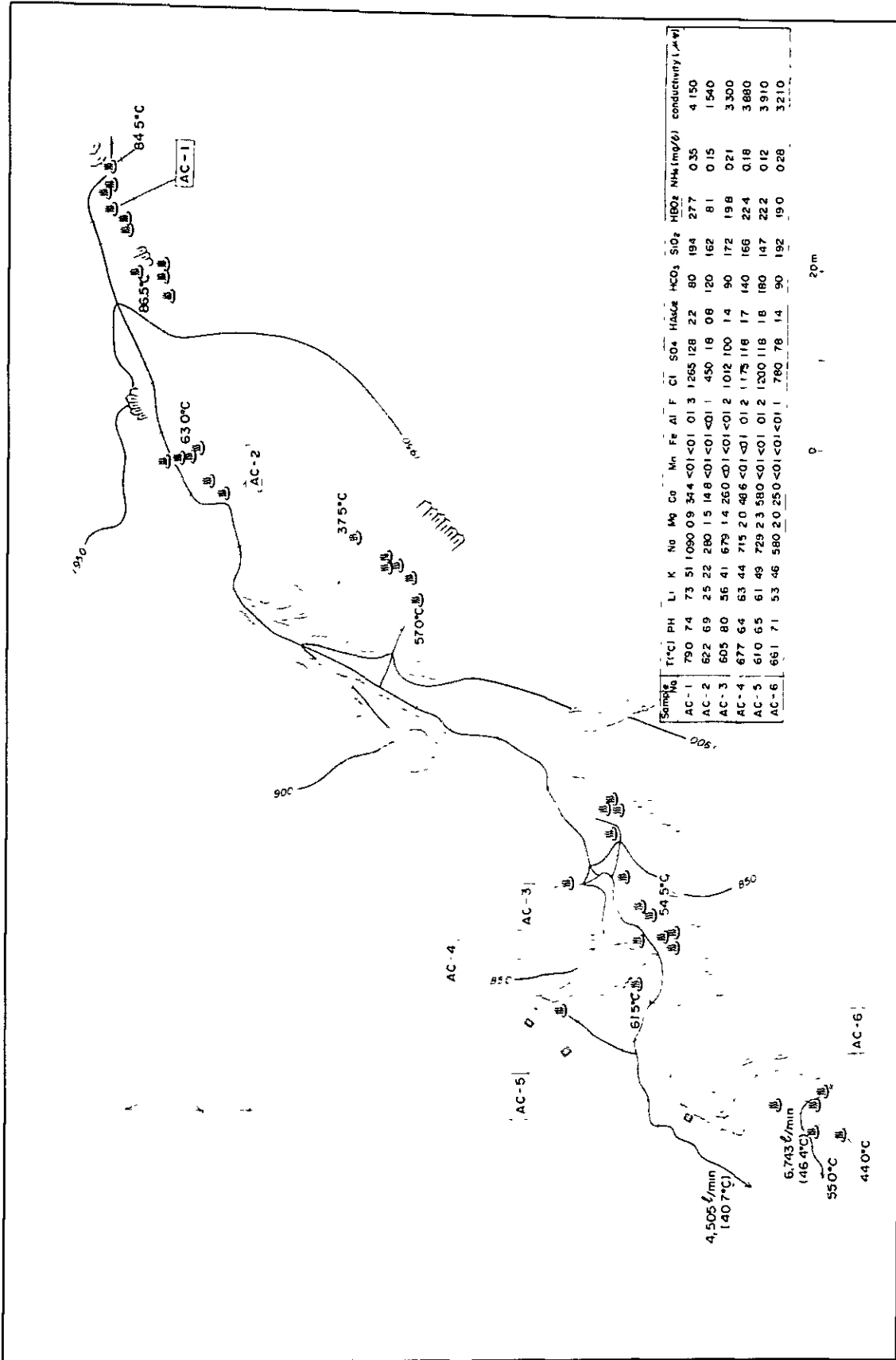


Fig.6-11 Detailed sketch of geothermal manifestation (7) Aguas Calientes

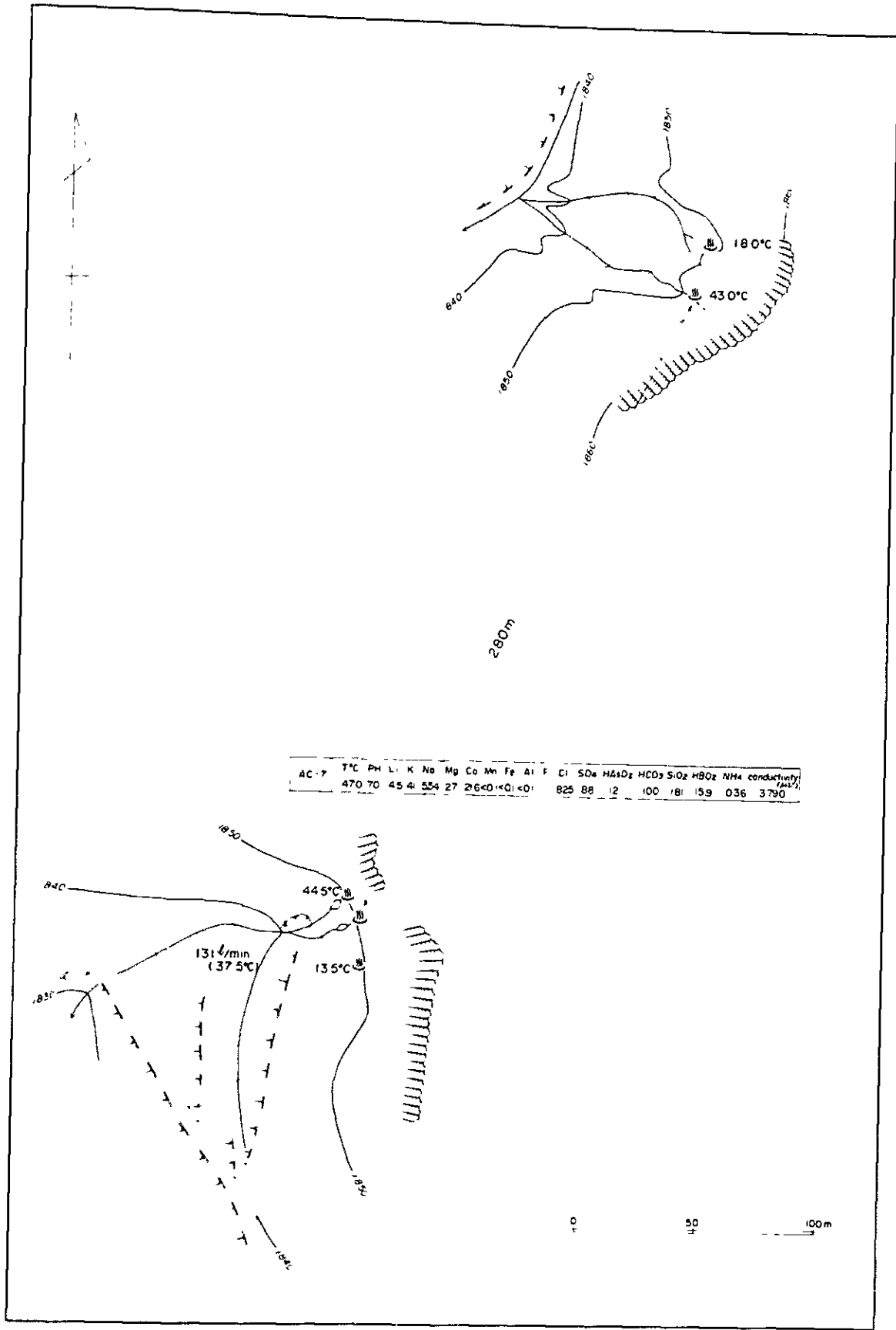


Fig.6-12 Detailed sketch of geothermal manifestation (8) Banos del Agua Caliente

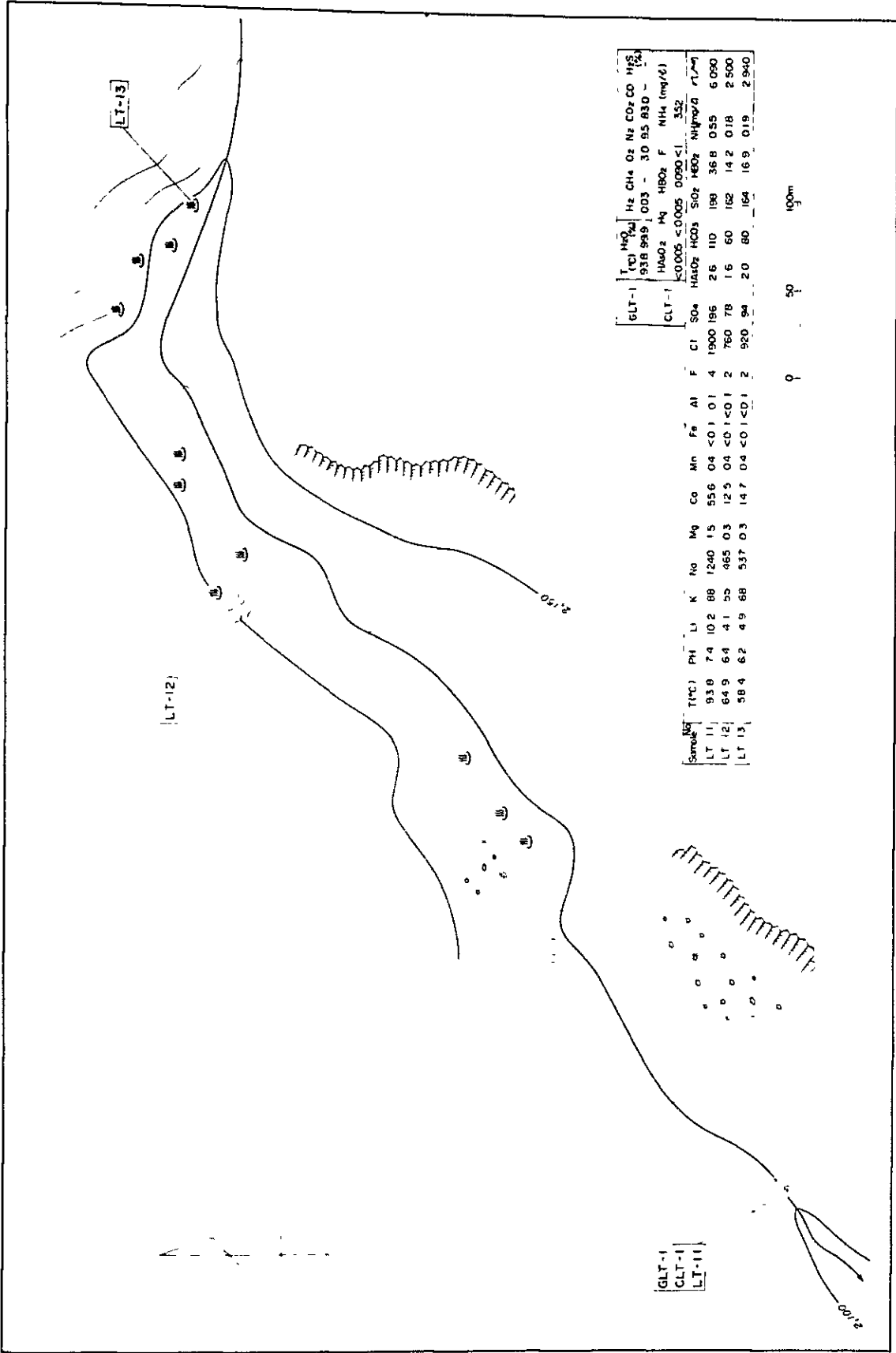


Fig.6-13 Detailed sketch of geothermal manifestation (9) Los Tachos - 1

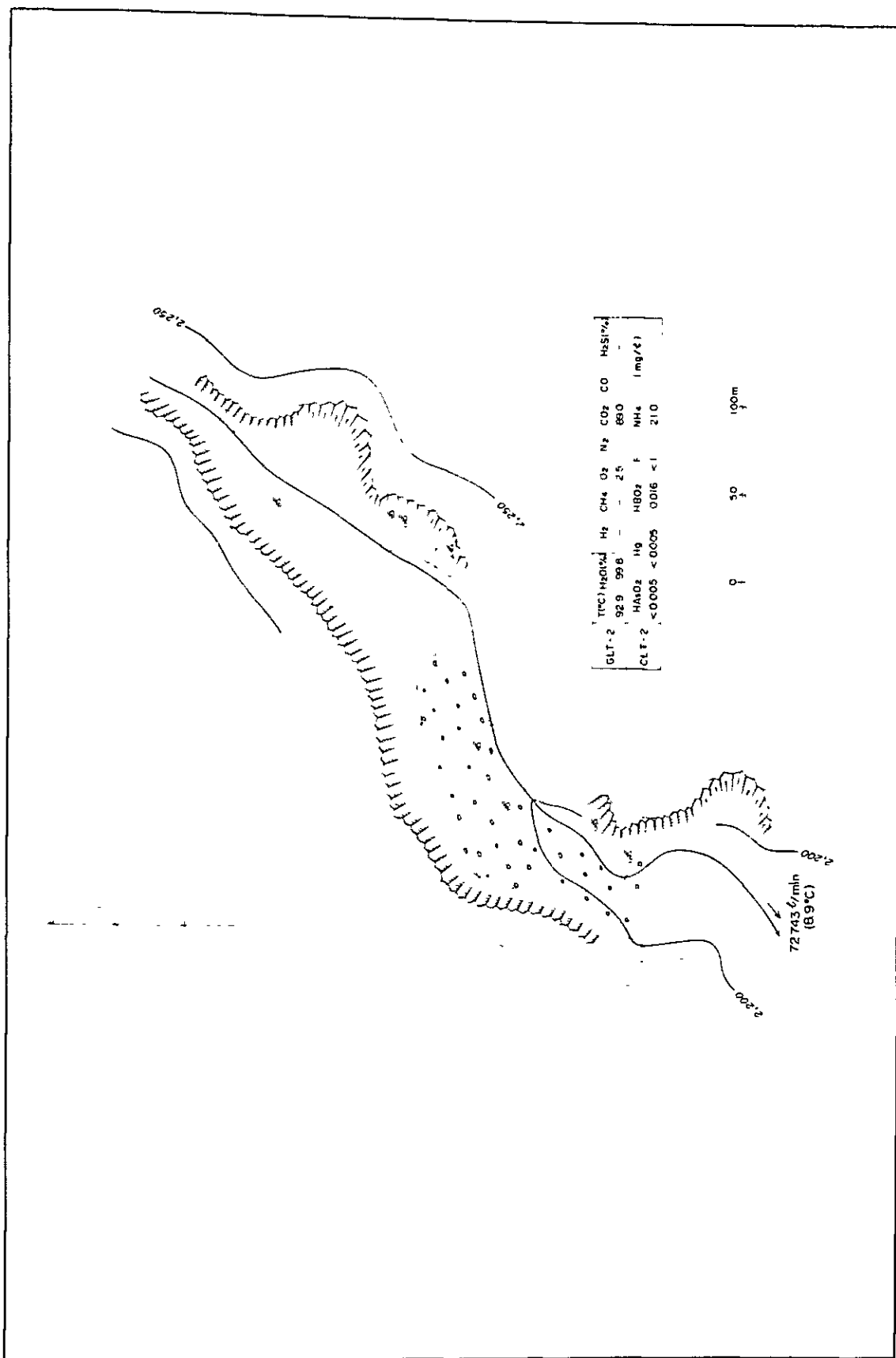


Fig.6-14 Detailed sketch of geothermal manifestation (10) Los Tachos - 2

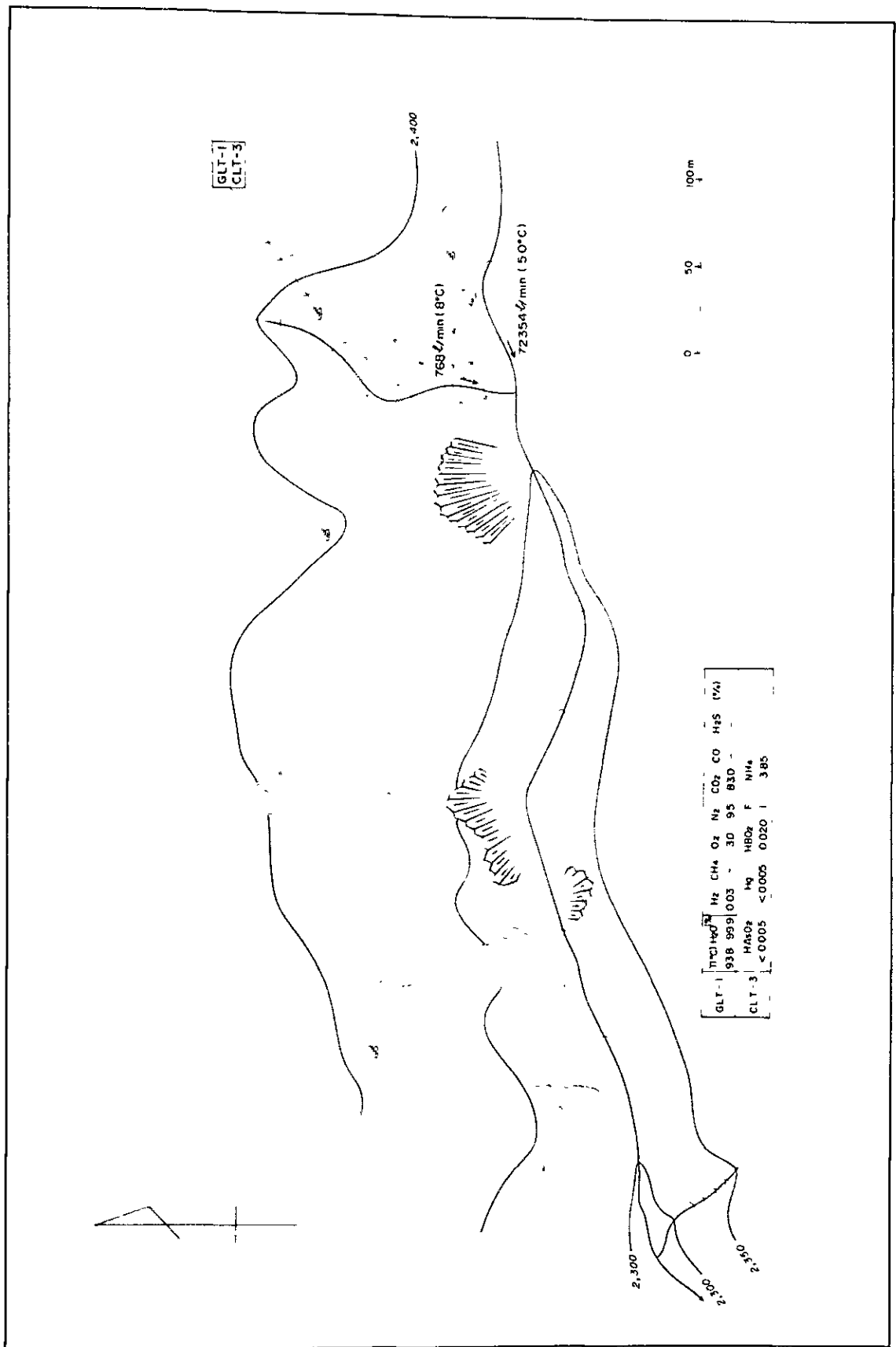


Fig.6-15 Detailed sketch of geothermal manifestation (11) Los Tachos - 3

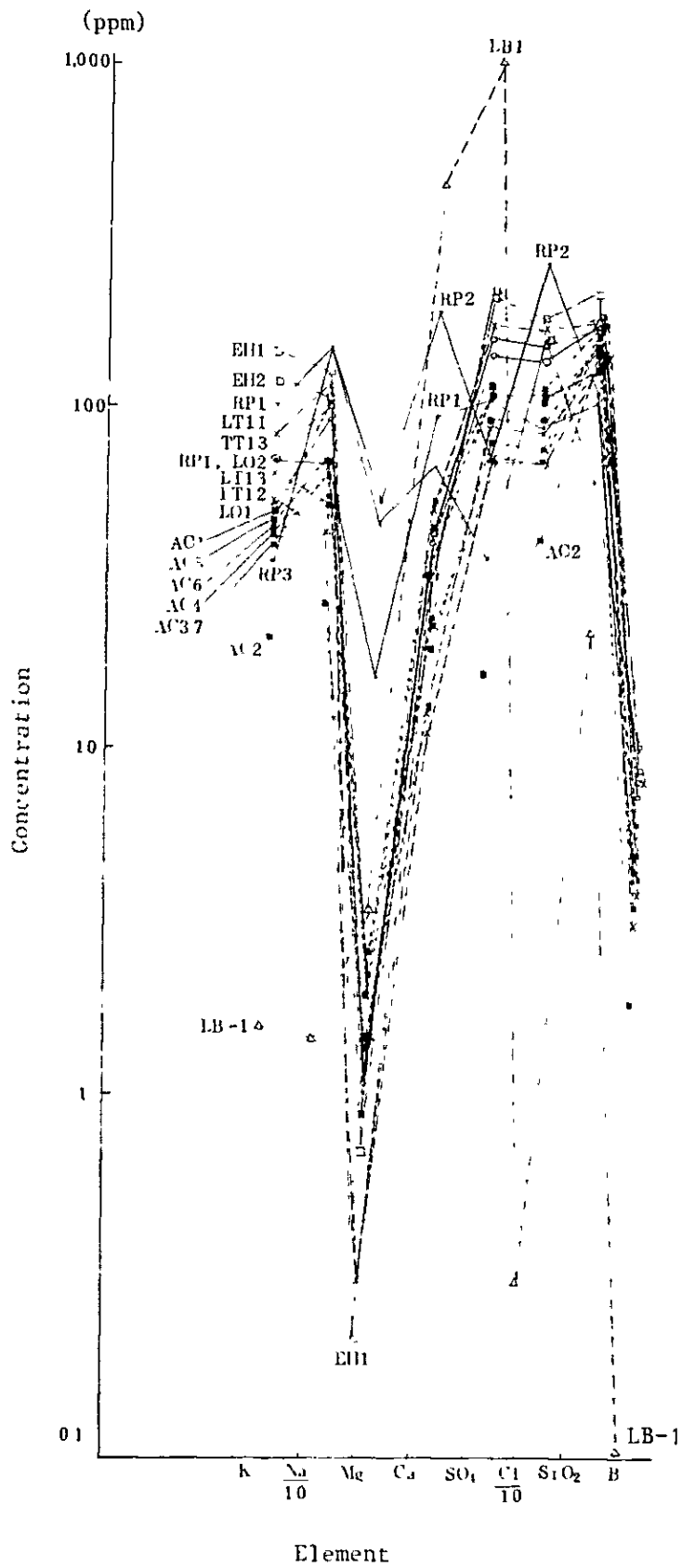


Fig.6-16 Main chemical compositions of hot water

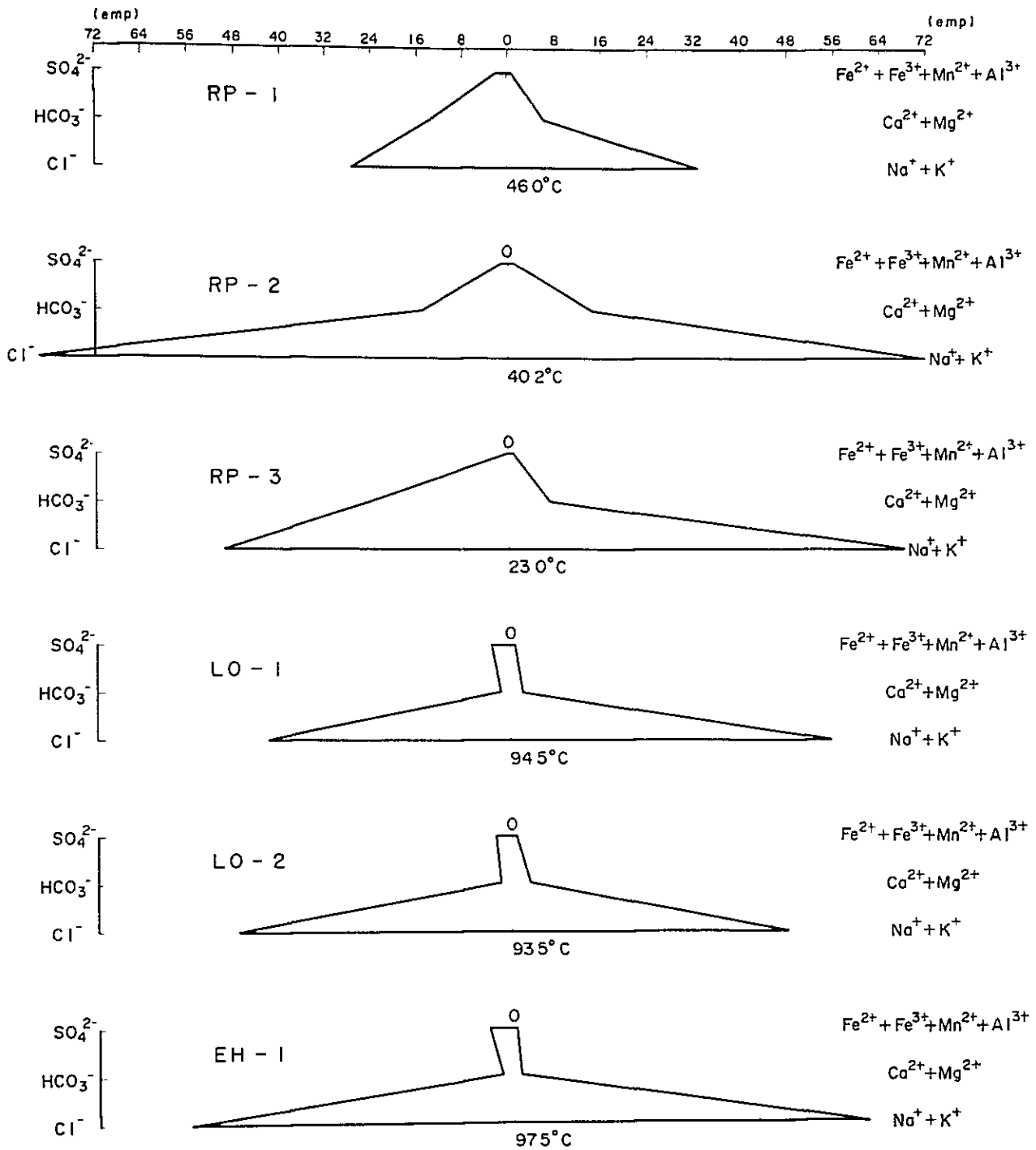


Fig.6-17(1) Hexadiagrams of main chemical compositions of hot water

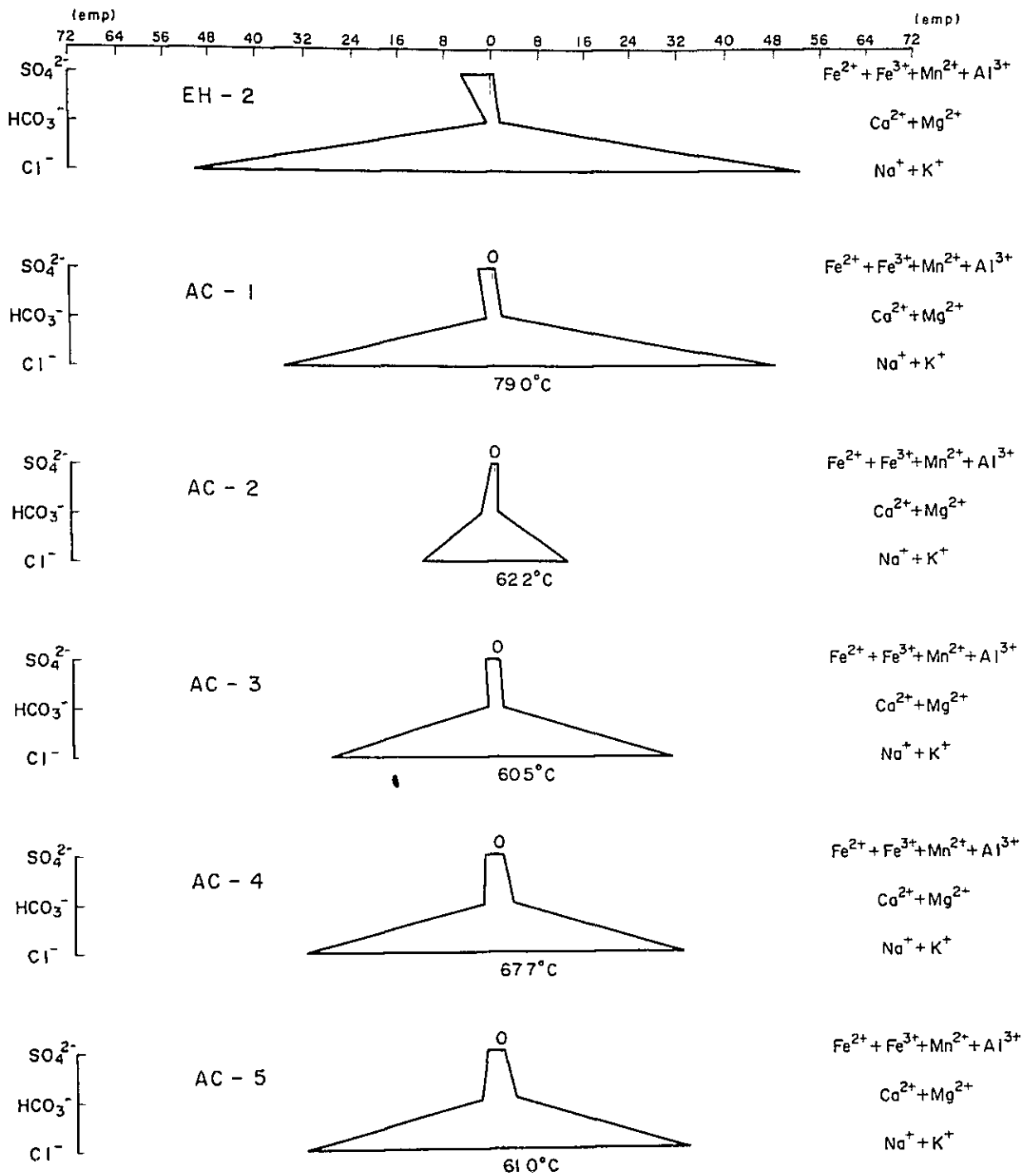


Fig.6-17(2) Hexadiagrams of main chemical compositions of hot water

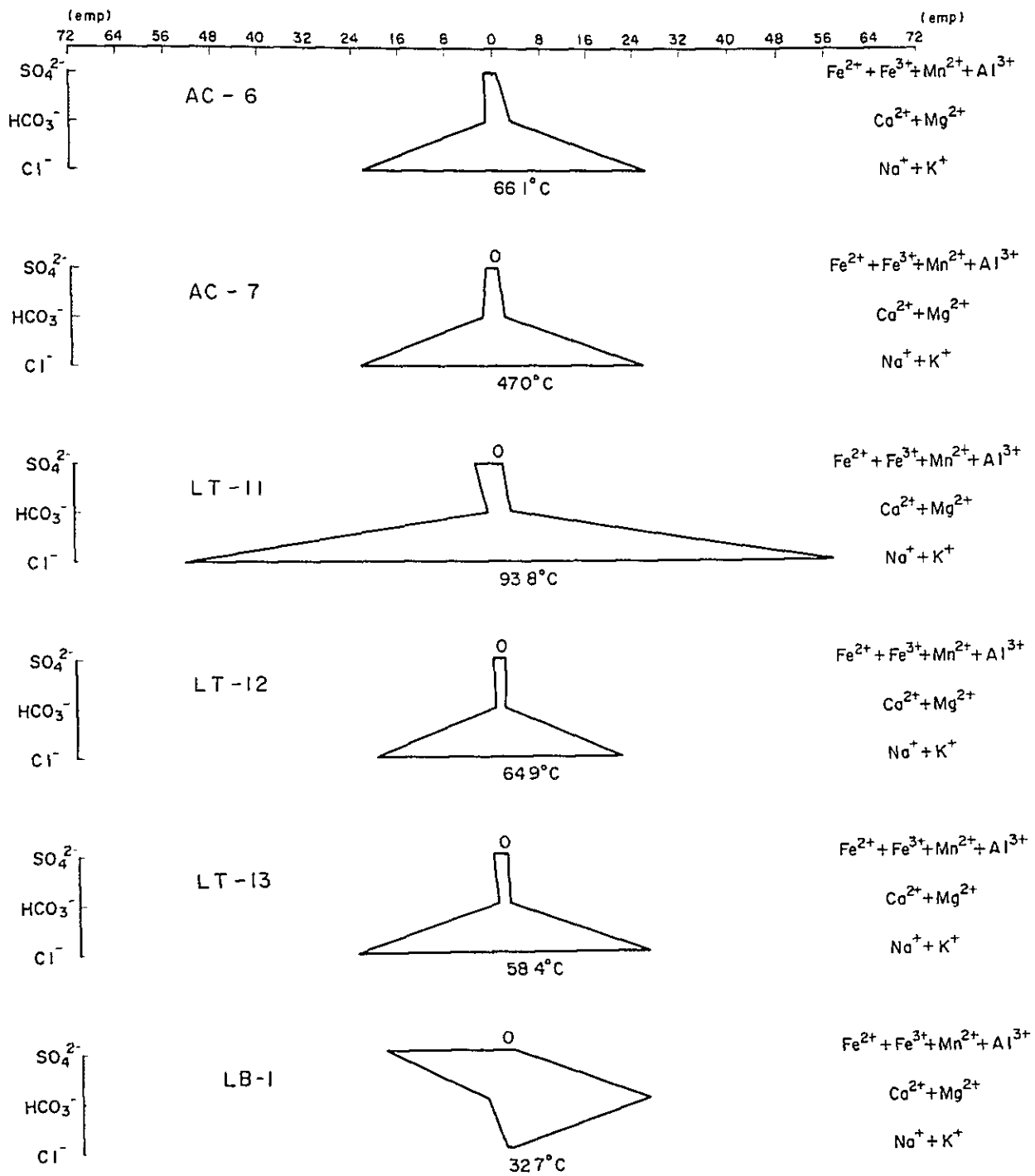
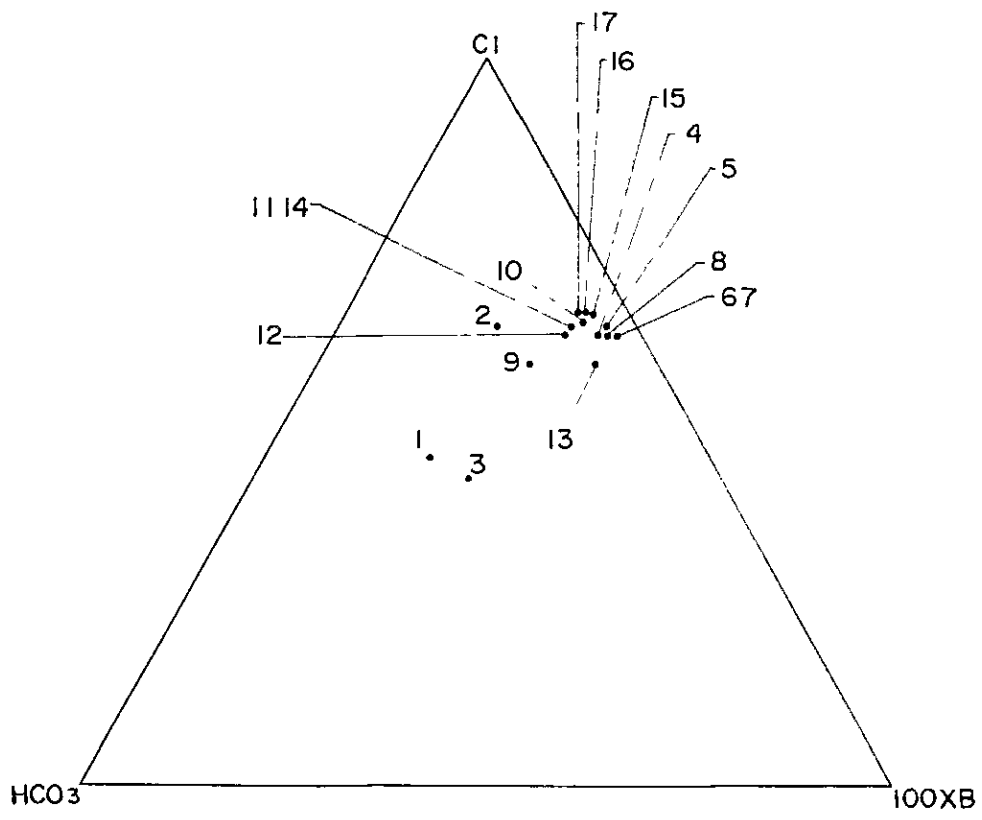


Fig.6-17(3) Hexadiagrams of main chemical compositions of hot water



1	RP-1	7	EH-2	13	AC-6
2	RP-2	8	AC-1	14	AC-7
3	RP-3	9	AC-2	15	LT-11
4	LO-1	10	AC-3	16	LT-12
5	LO-2	11	AC-4	17	LT-13
6	EH-1	12	AC-5		

Fig.6-18 Diagram of Cl - HCO₃ - B contents of hot water

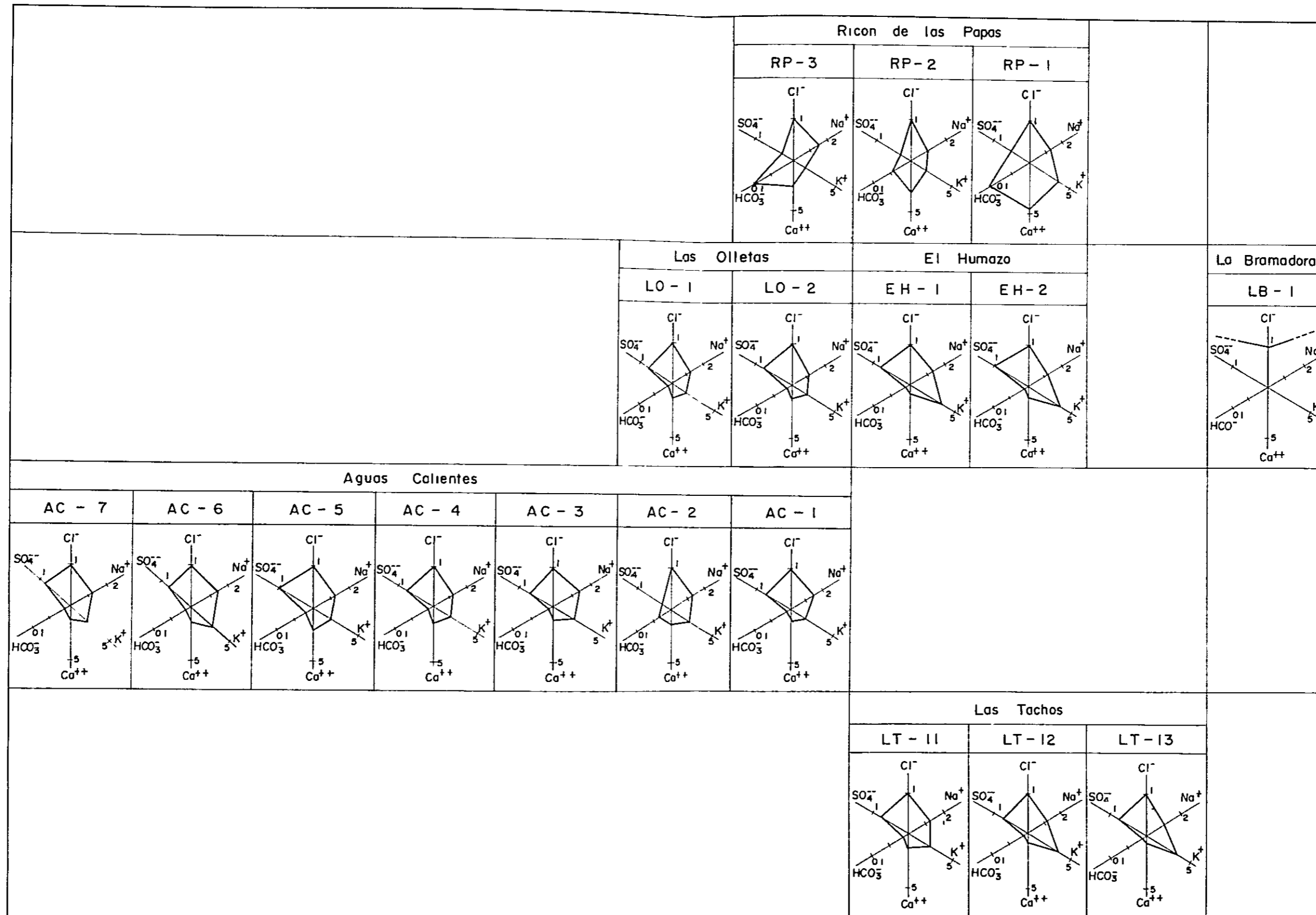
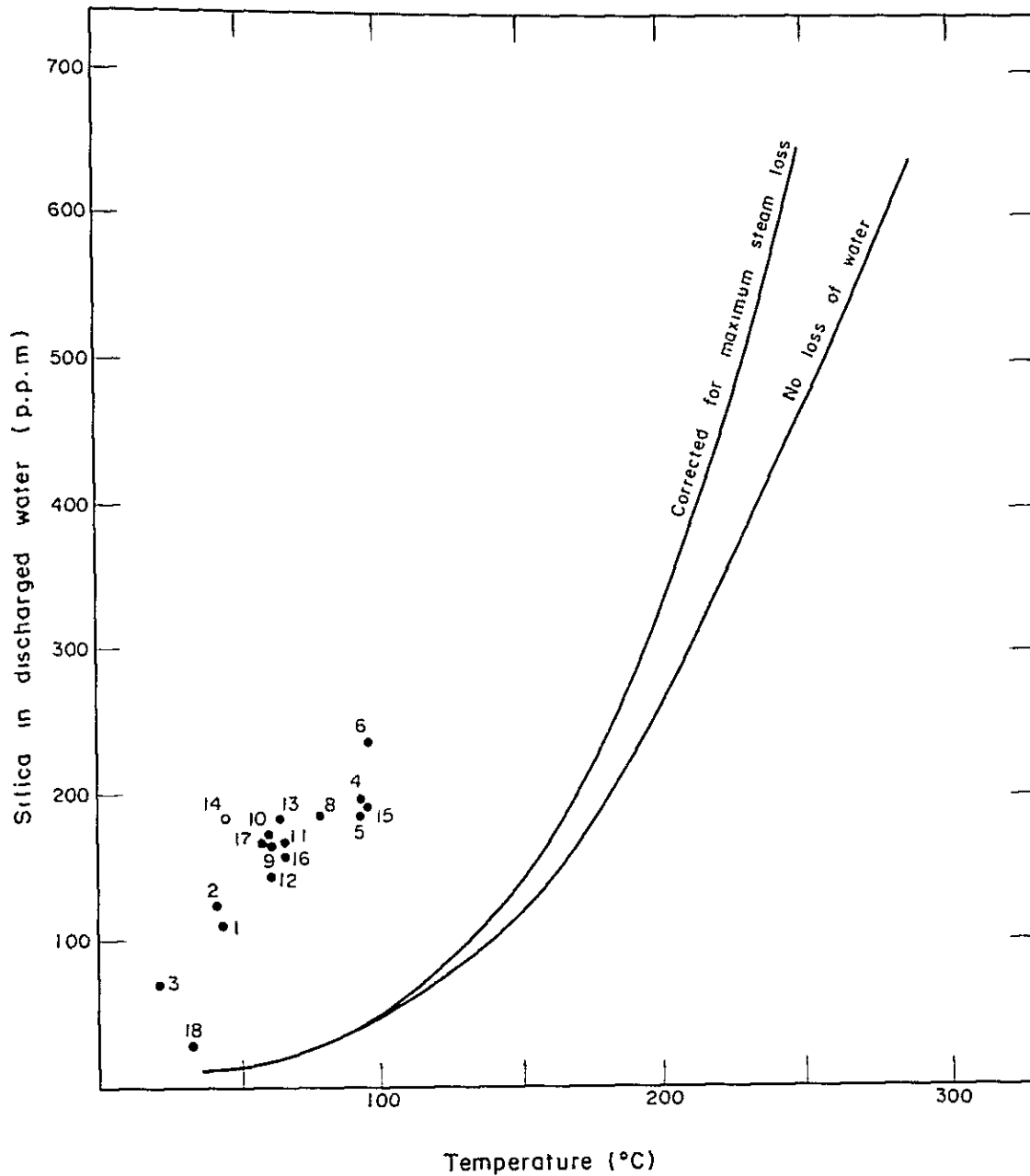
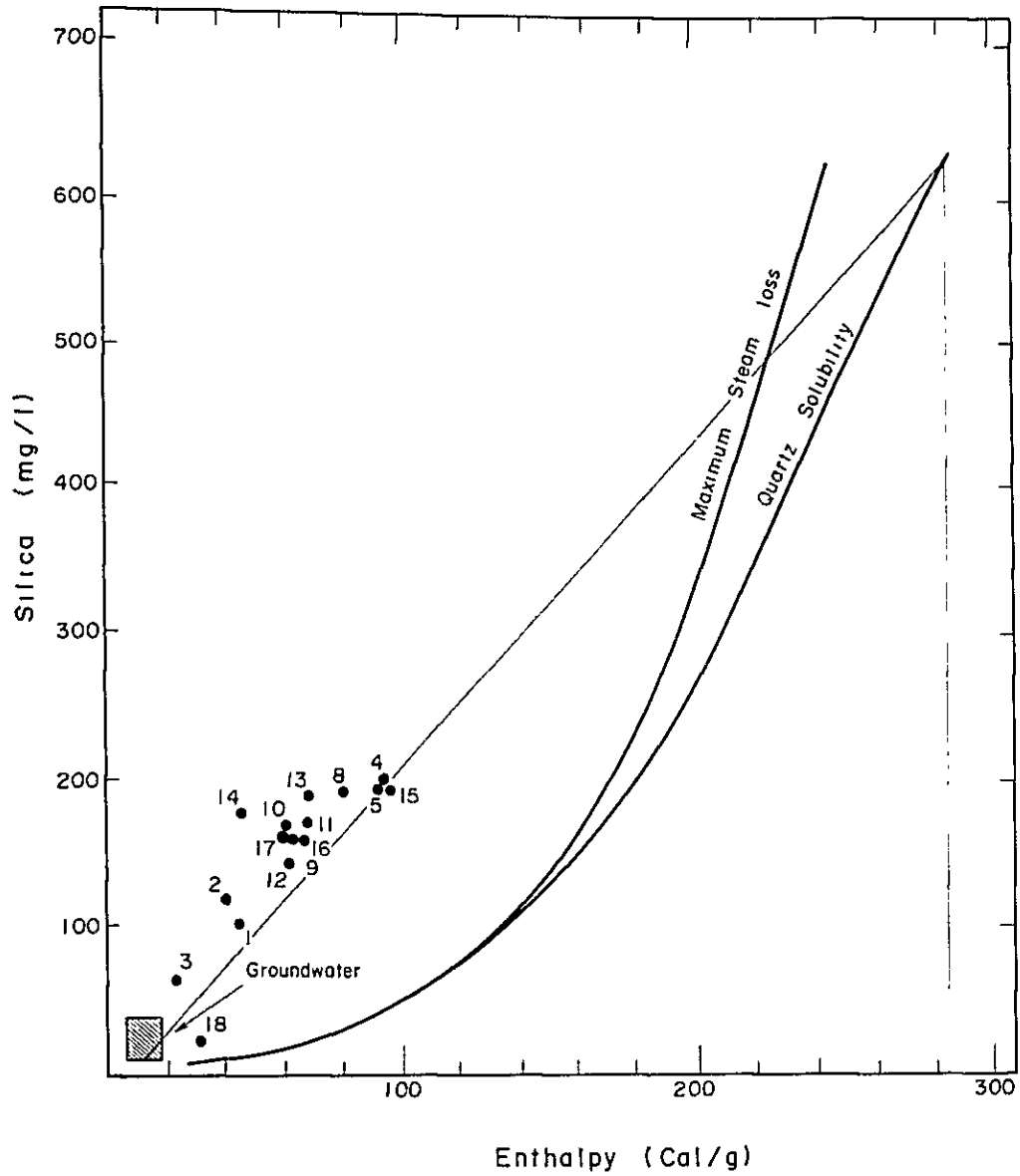


Fig.6-19 Comparative diagrams of ion - concentration index between sea water and hot water



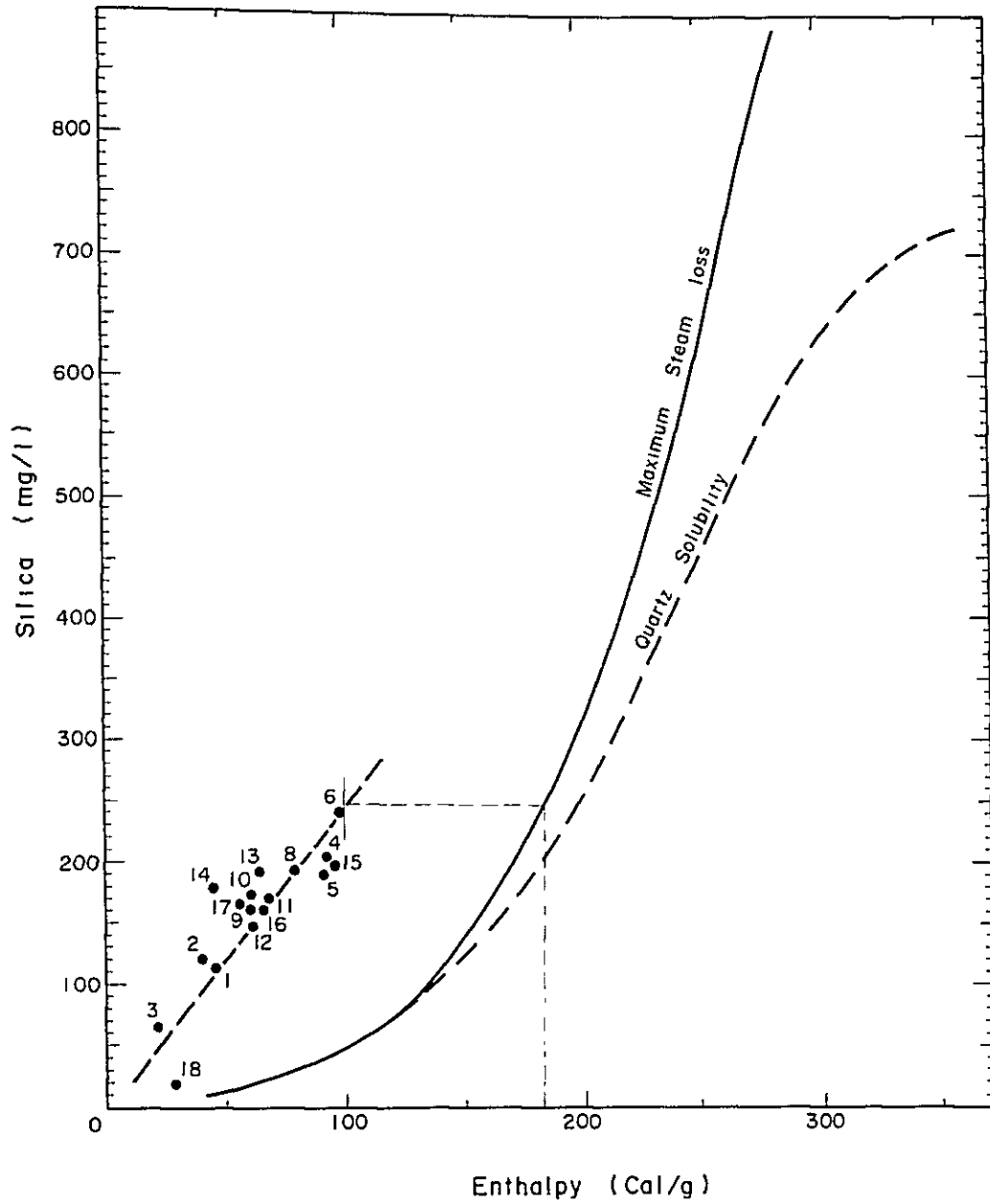
Rincón de las Papas		Los Olletas		El Humazo		Aguas Calientes		Los Tachos		La Bramadora	
No	Sample No	No	Sample No	No	Sample No	No	Sample No	No	Sample No	No	Sample No
1	RP - 1	4	LO - 1	6	EH - 1	8	AC - 1	15	LT - 11	18	LB
2	" - 2	5	" - 2		" - 2	9	" - 2	16	" - 12		
3	" - 3					10	" - 3	17	" - 13		
						11	" - 4				
						12	" - 5				
						13	" - 6				
						14	" - 7				

Fig.6-20 Silica - geochemical geothermometer



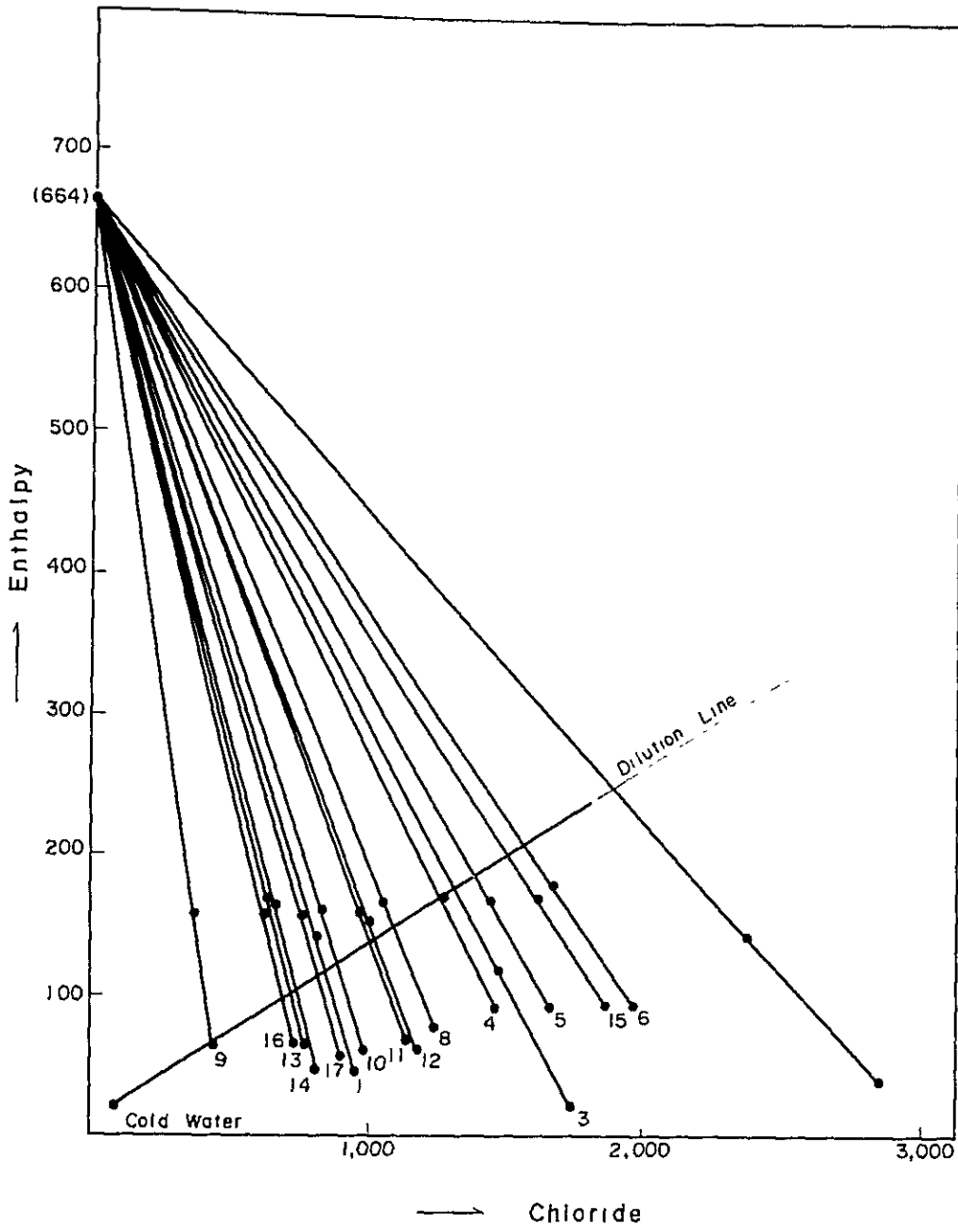
Rincón de las Popas		Las Olletas		El Humazo		Aguas Calientes		Los Tachos		La Bromadora	
No	Sample No	No	Sample No	No	Sample No	No	Sample No	No	Sample No	No	Sample No
1	RP - 1	4	LO - 1	6	EH - 1	8	AC - 1	15	LT - 11	18	LB
2	" - 2	5	" - 2		" - 2	9	" - 2	16	" - 12		
3	" - 3					10	" - 3	17	" - 13		
						11	" - 4				
						12	" - 5				
						13	" - 6				
						14	" - 7				

Fig.6-21 Silica - geochemical geothermometer
(mixing model 1-1)



Rincón de las Popas		Las Olletas		El Humazo		Aguas Calientes		Los Tachos		La Bromadora	
No	Sample No	No	Sample No	No	Sample No	No	Sample No	No	Sample No	No	Sample No
1	RP - 1	4	LO - 1	6	EH - 1	8	AC - 1	15	LT - 11	18	LB
2	" - 2	5	" - 2		" - 2	9	" - 2	16	" - 12		
3	" - 3					10	" - 3	17	" - 13		
						11	" - 4				
						12	" - 5				
						13	" - 6				
						14	" - 7				

Fig.6-22 Silica - geochemical geothermometer
(mixing model 1 - 2)



Rincón de las Papas		Las Olletas		El Humazo		Aguas Calientes		Los Tachos		La Bramadora	
No	Sample No	No	Sample No	No	Sample No	No	Sample No	No	Sample No	No	Sample No
1	RP - 1	4	LO - 1	6	EH - 1	8	AC - 1	15	LT - 11	18	LB
2	" - 2	5	" - 2		" - 2	9	" - 2	16	" - 12		
3	" - 3					10	" - 3	17	" - 13		
						11	" - 4				
						12	" - 5				
						13	" - 6				
						14	" - 7				

Fig.6-23 Silica - geochemical geothermometer (mixing model 2)

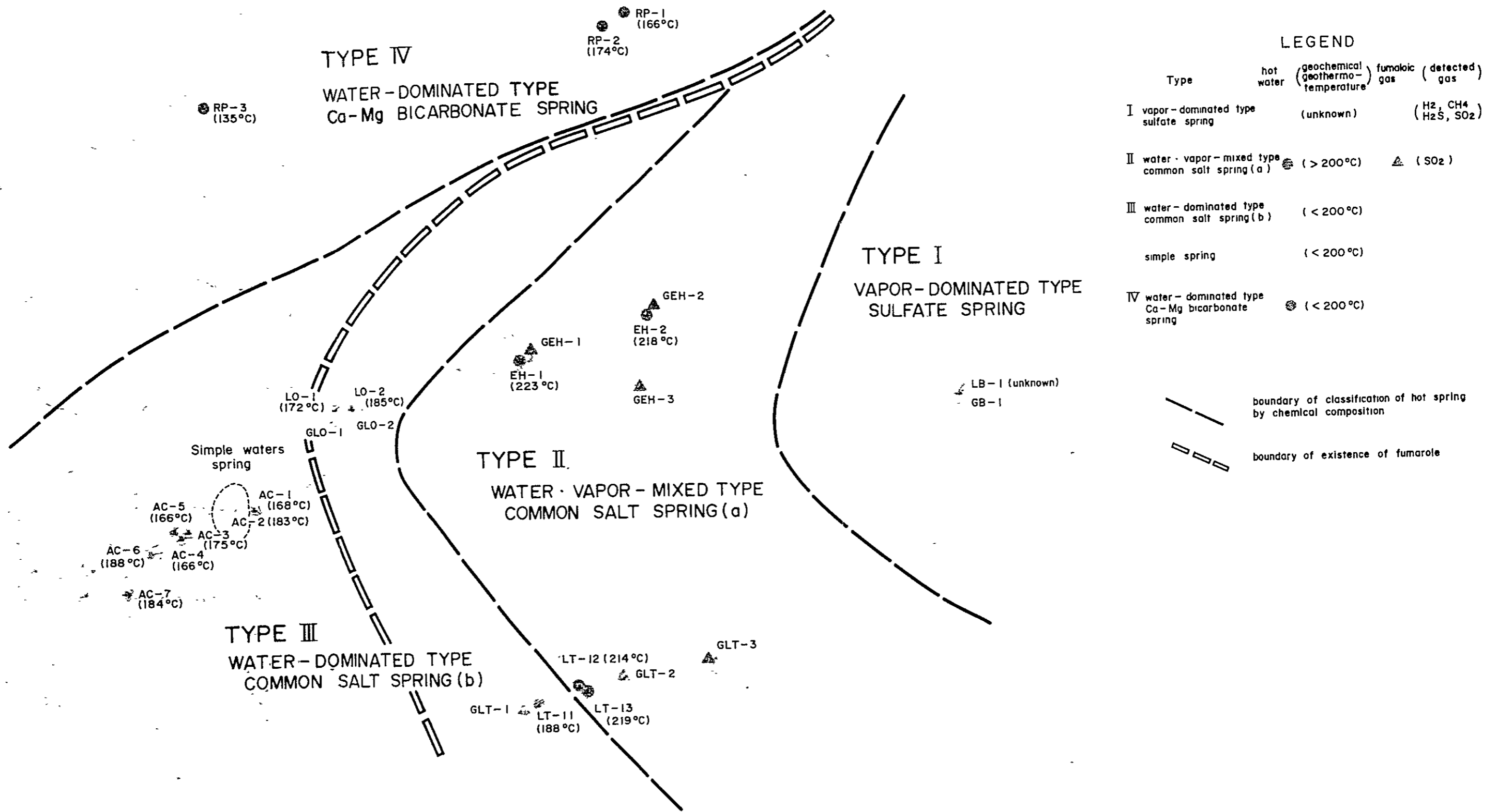
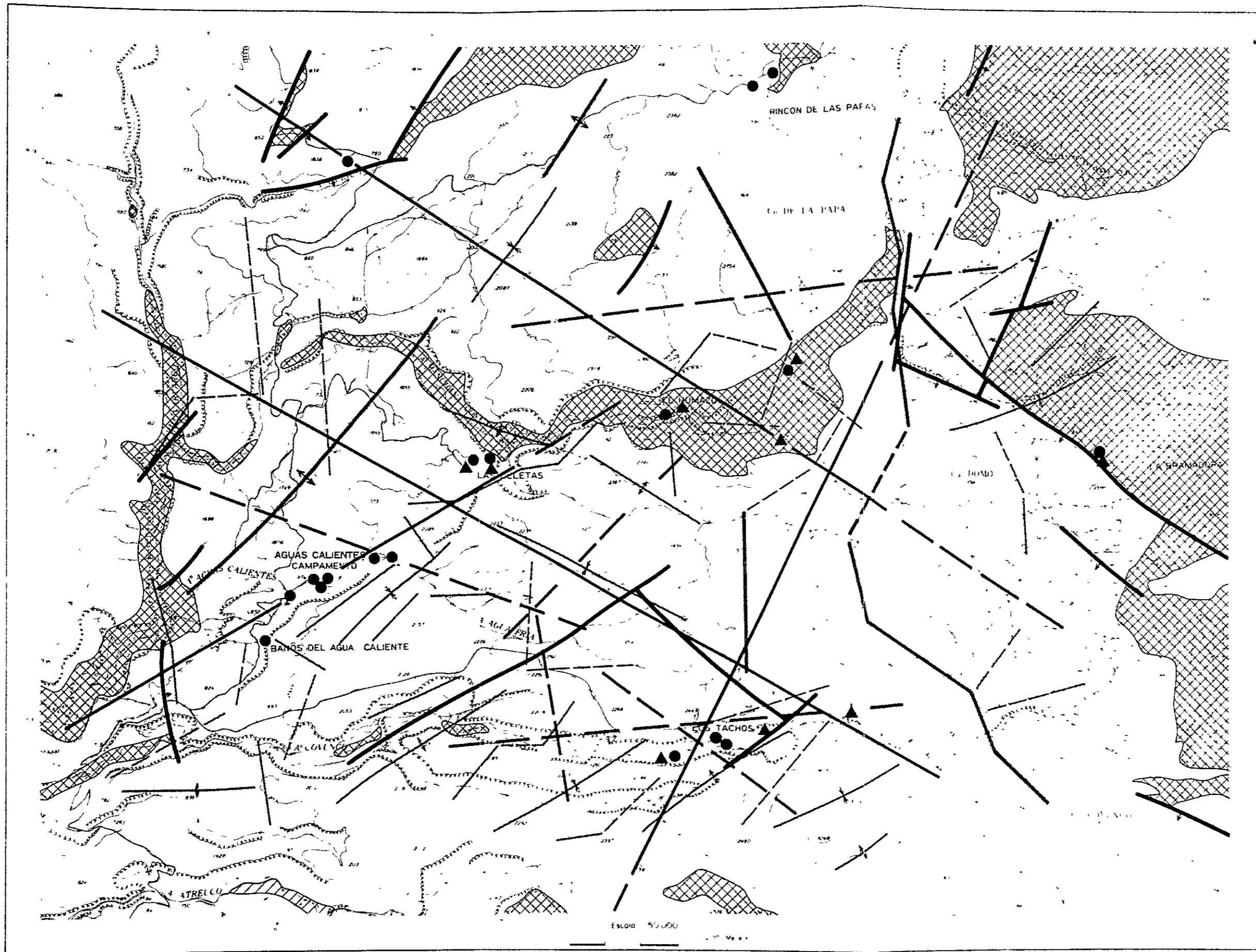


Fig.6-24 Composite map of zoning of hot spring - fumarole and geochemical geothermo-temperature

7. 地 熱 構 造 モ デ ル



LEGEND

- (Geology)
 - basement & Mesozoic formation
 - fault
 - (Gravity)
 - high gravity area
 - low gravity area
 - gravimetric lineament (distinct)
 - gravimetric lineament (indistinct)
 - gravimetric anticline
 - gravimetric syncline
 - (Ground temperature & Geochemistry)
 - trend of anomalies (distinct)
 - trend of anomalies (indistinct)
 - (Geothermal manifestation)
 - hot spring
 - fumarole
- (geothermal-temperature)
 - dominated type
 late spring (unknown)
 r - vapor - mixed type
 common salt spring (a) (> 200°C)
 r - dominated
 common salt spring (b) (< 200°C)
 r - dominated type
 -Mg bicarbonate spring (< 200°C)
- (chemistry) area
 al ground temperature
 concentration
 concentration
 (--- distinct
 --- indistinct)
- nite zone (temperature) high
 ↑
 low
 fe - zone

Fig.7-1 Synthetic interpretation map of geologic structure

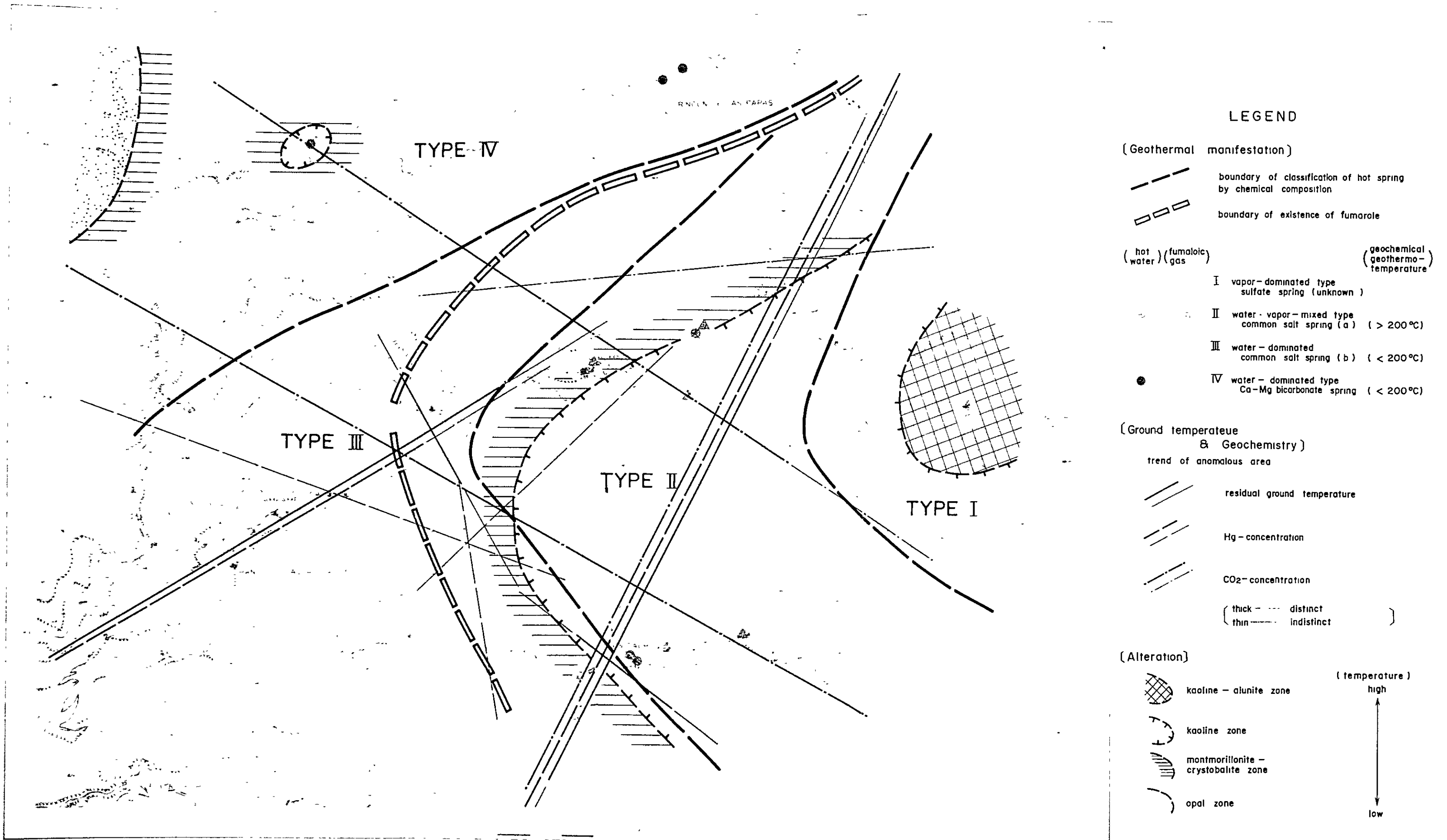


Fig.7-2 Synthetic interpretation map of heat flow structure

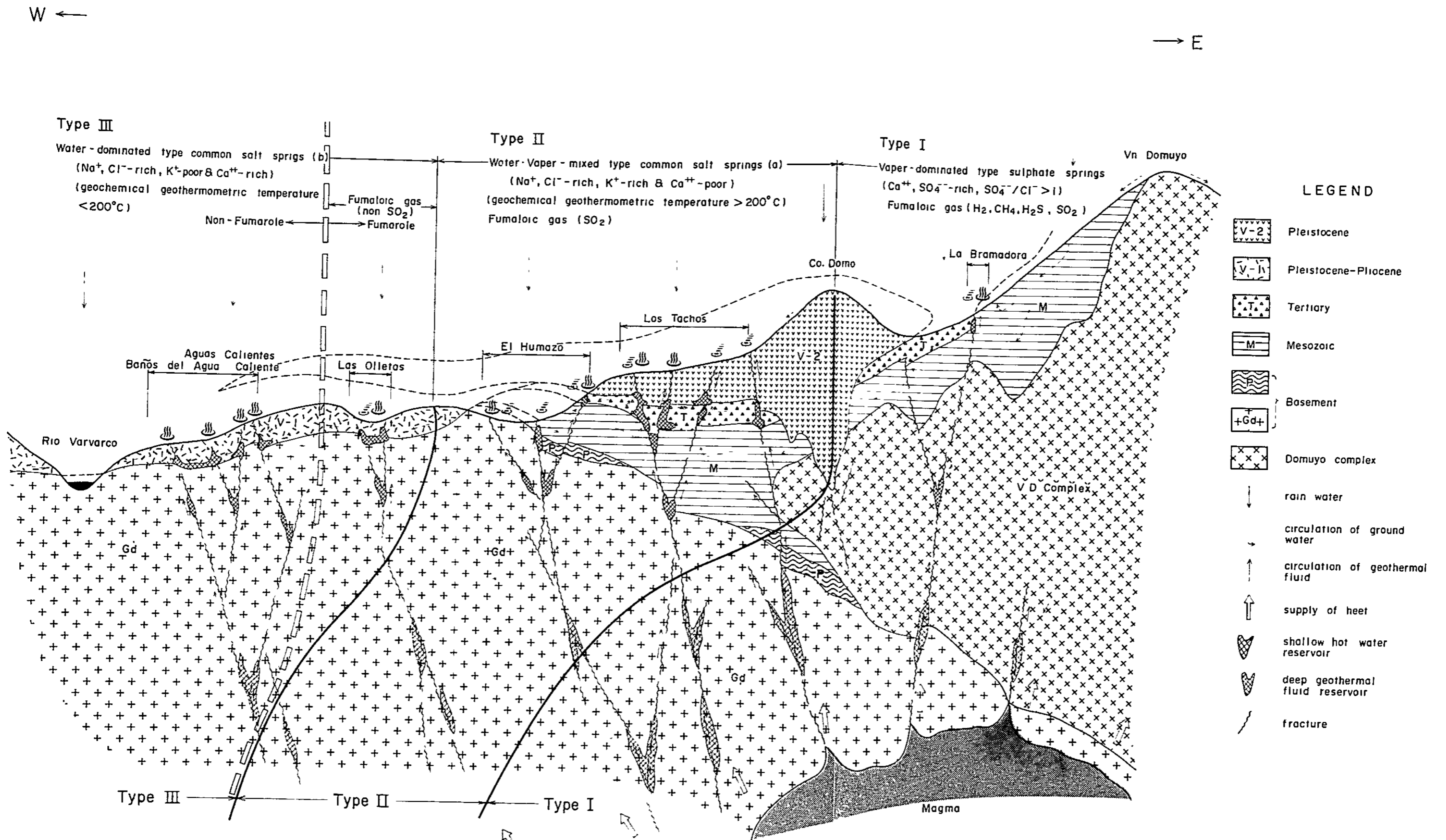


Fig.7-3 Model of circulation mechanism of geothermal fluid and geothermal reservoir structure (1)

NW ←

→ SE

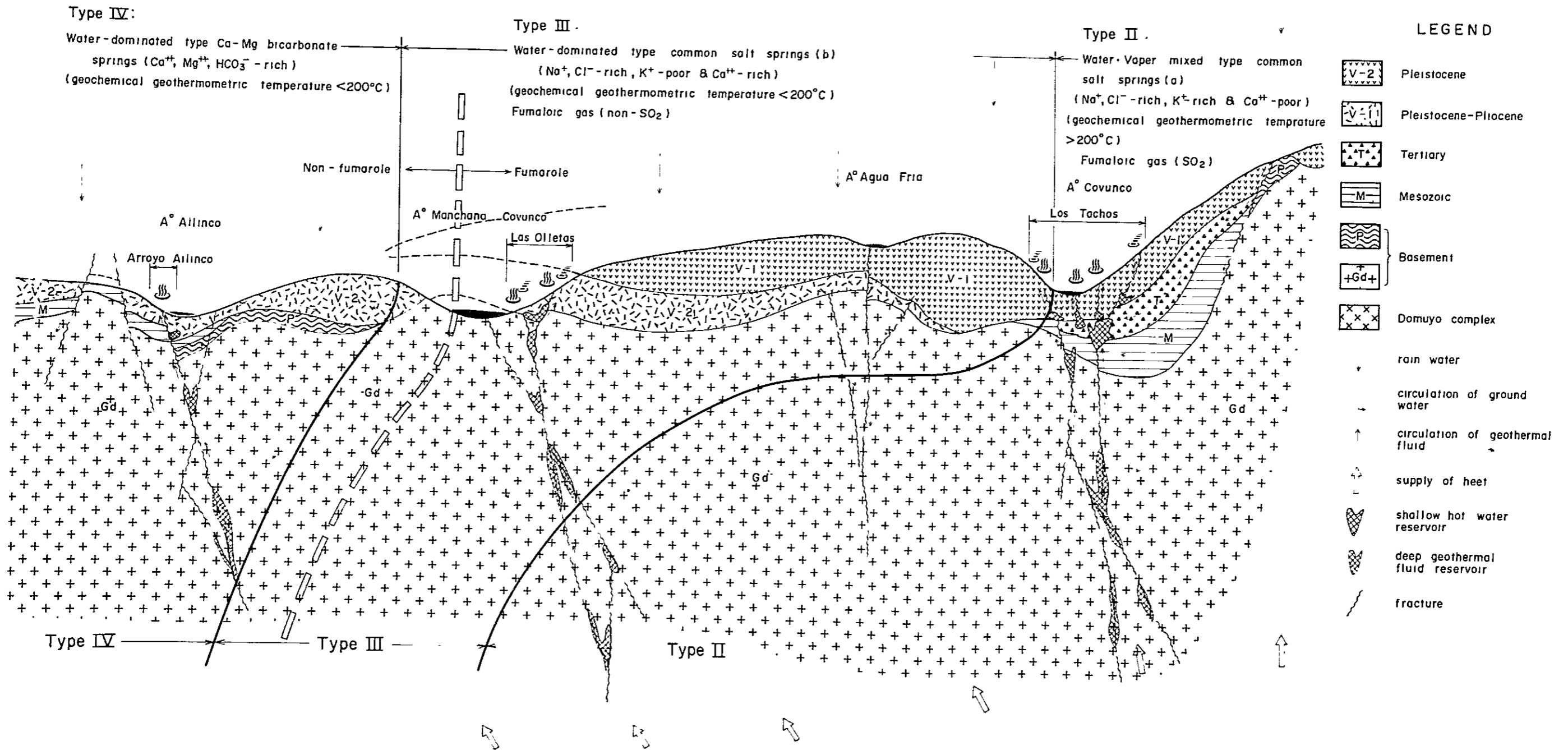


Fig.7-4 Model of circulation mechanism of geothermal fluid and geothermal reservoir structure (2)

8. 総括

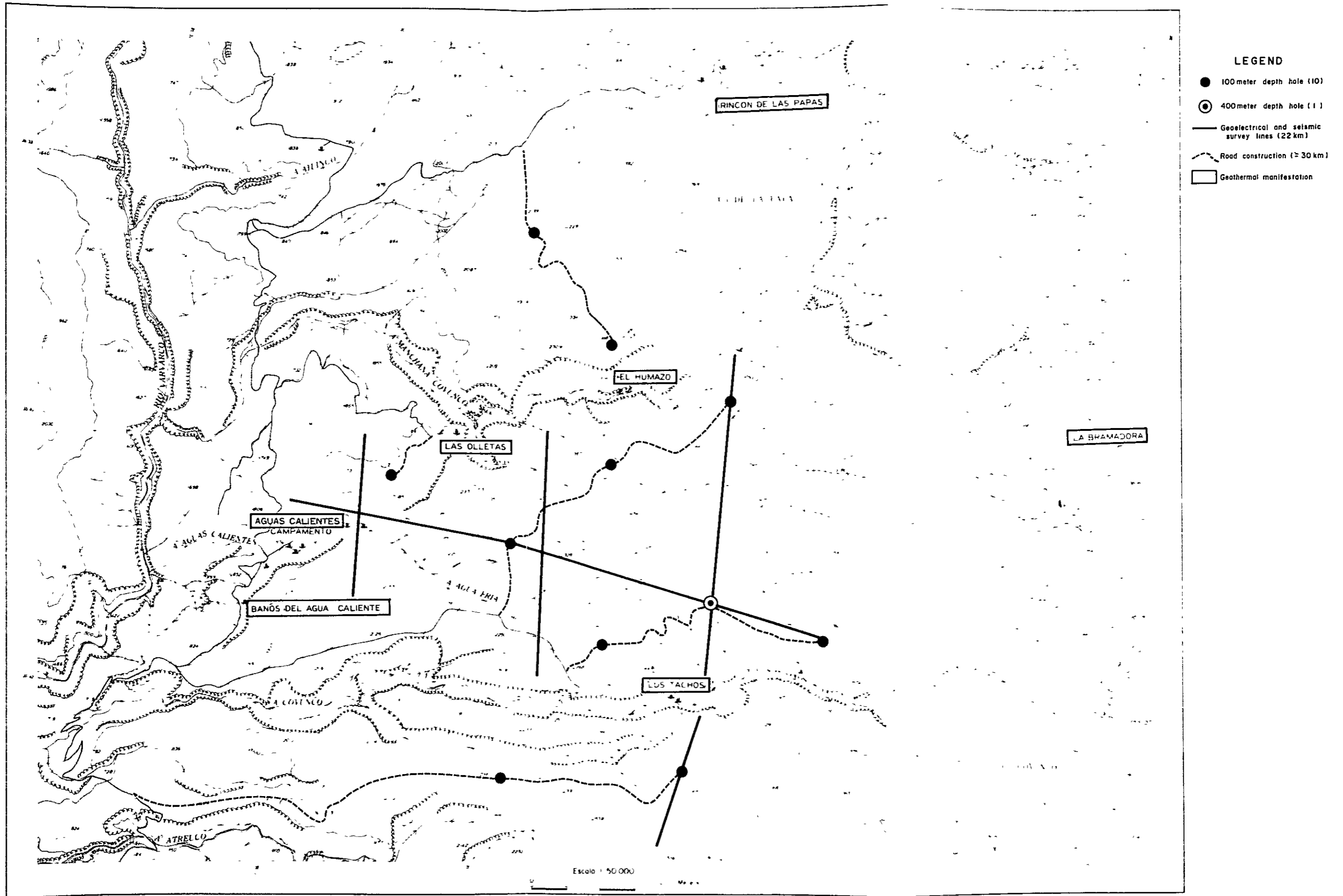


Fig.8-1 Proposed working plan of the third phase survey

