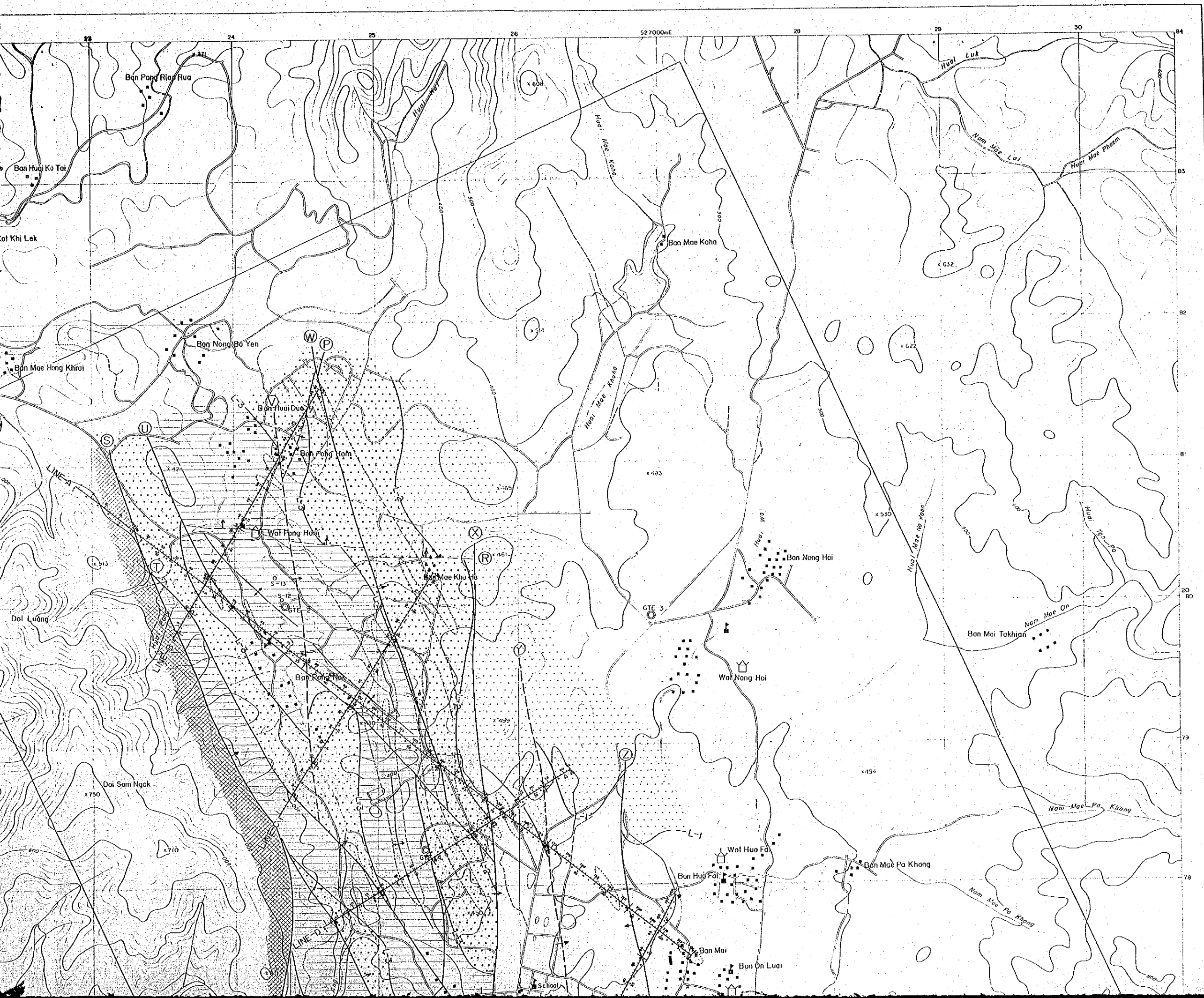


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PL II.2.2-46

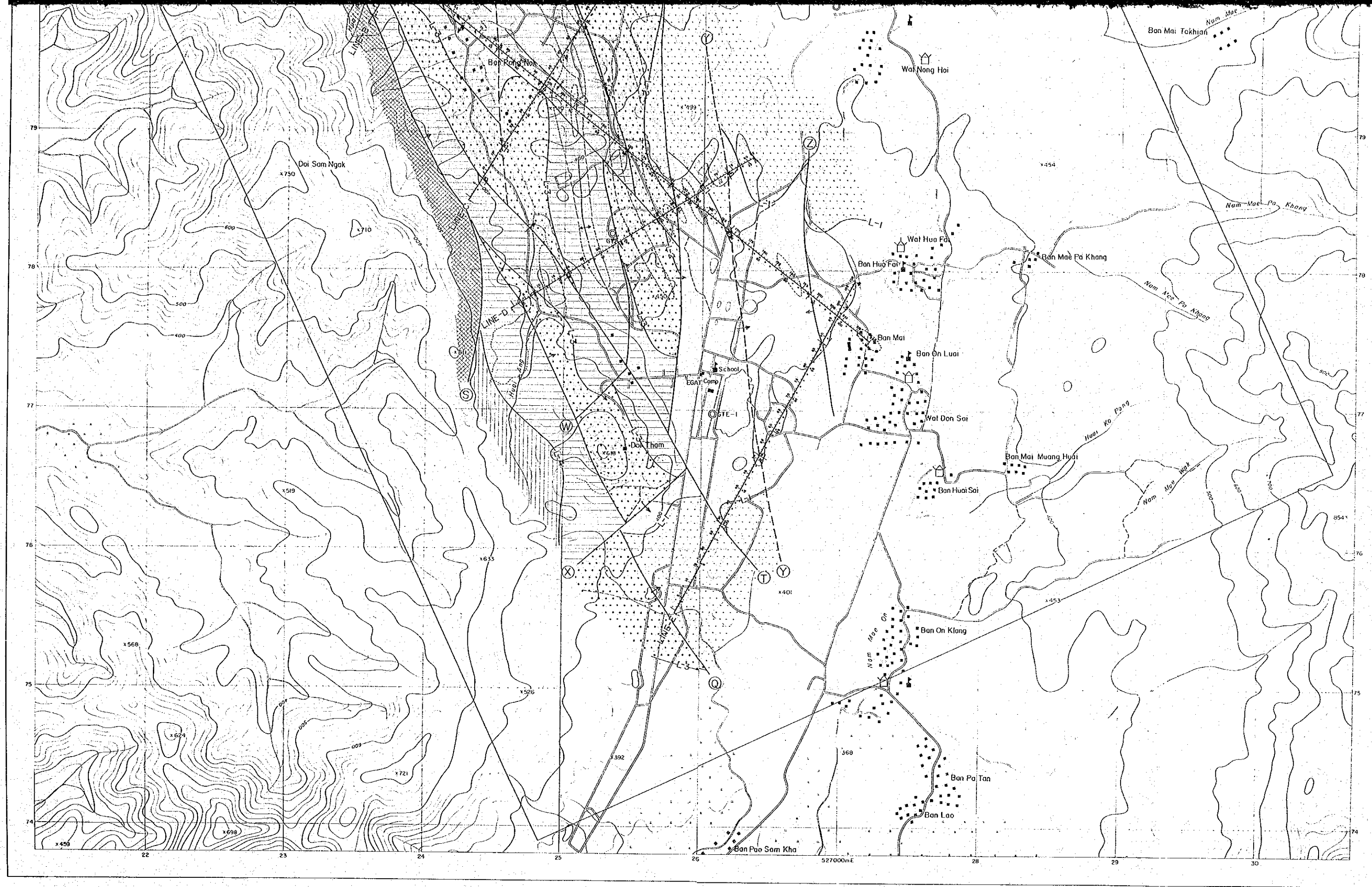
THE PRE-FEASIBILITY STUDY
ON
THE SAN KAMPAENG GEOTHERMAL DEVELOPMENT PROJECT
IN THE KINGDOM OF THAILAND
(DL - 1000)
DEPTH STRUCTURE ANALYSIS MAP

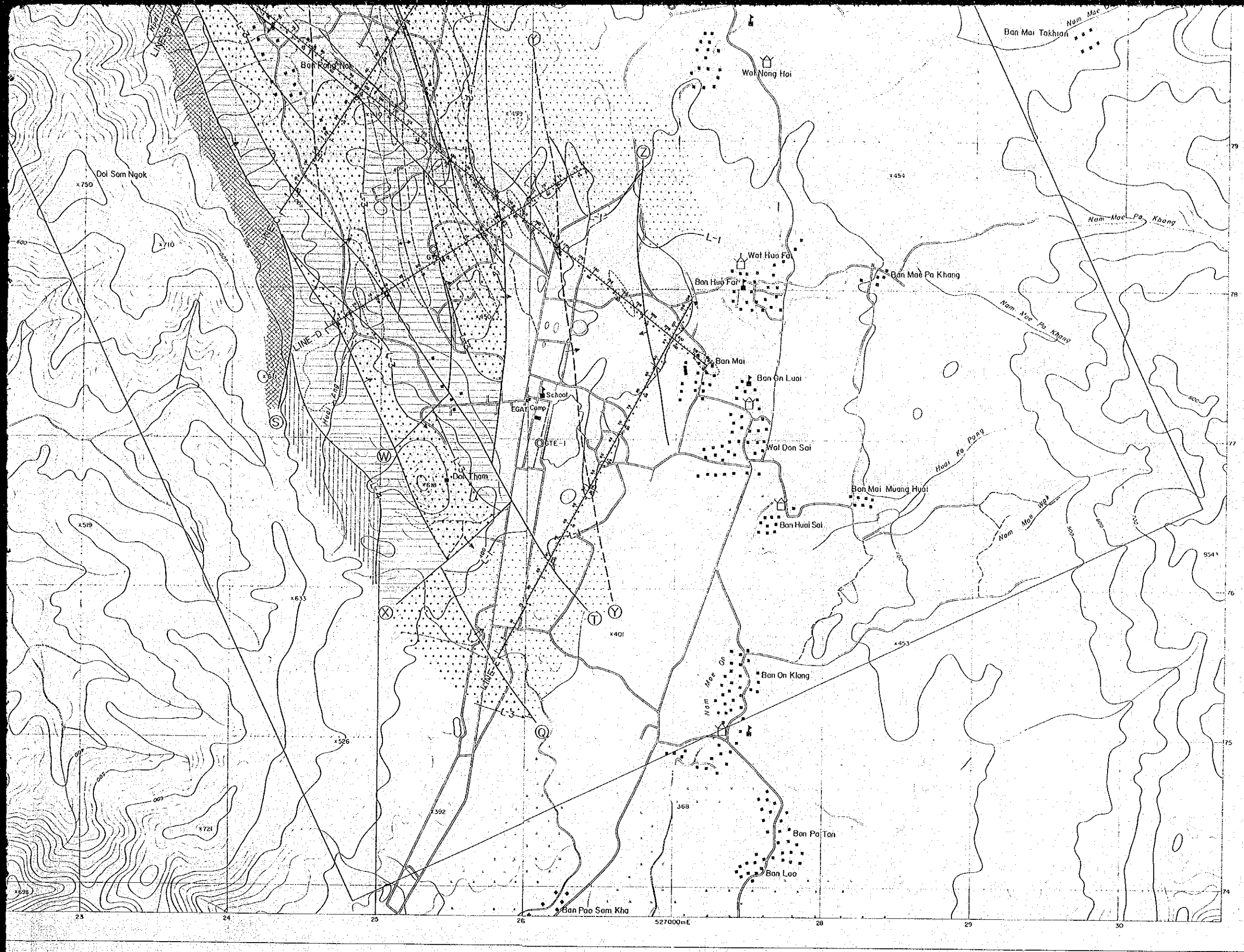
JAPAN INTERNATIONAL COOPERATION AGENCY
ELECTRICITY GENERATING AUTHORITY OF THAILAND
DEPARTMENT OF MINERAL RESOURCES
CHIANG MAI UNIVERSITY

MARCH 1983

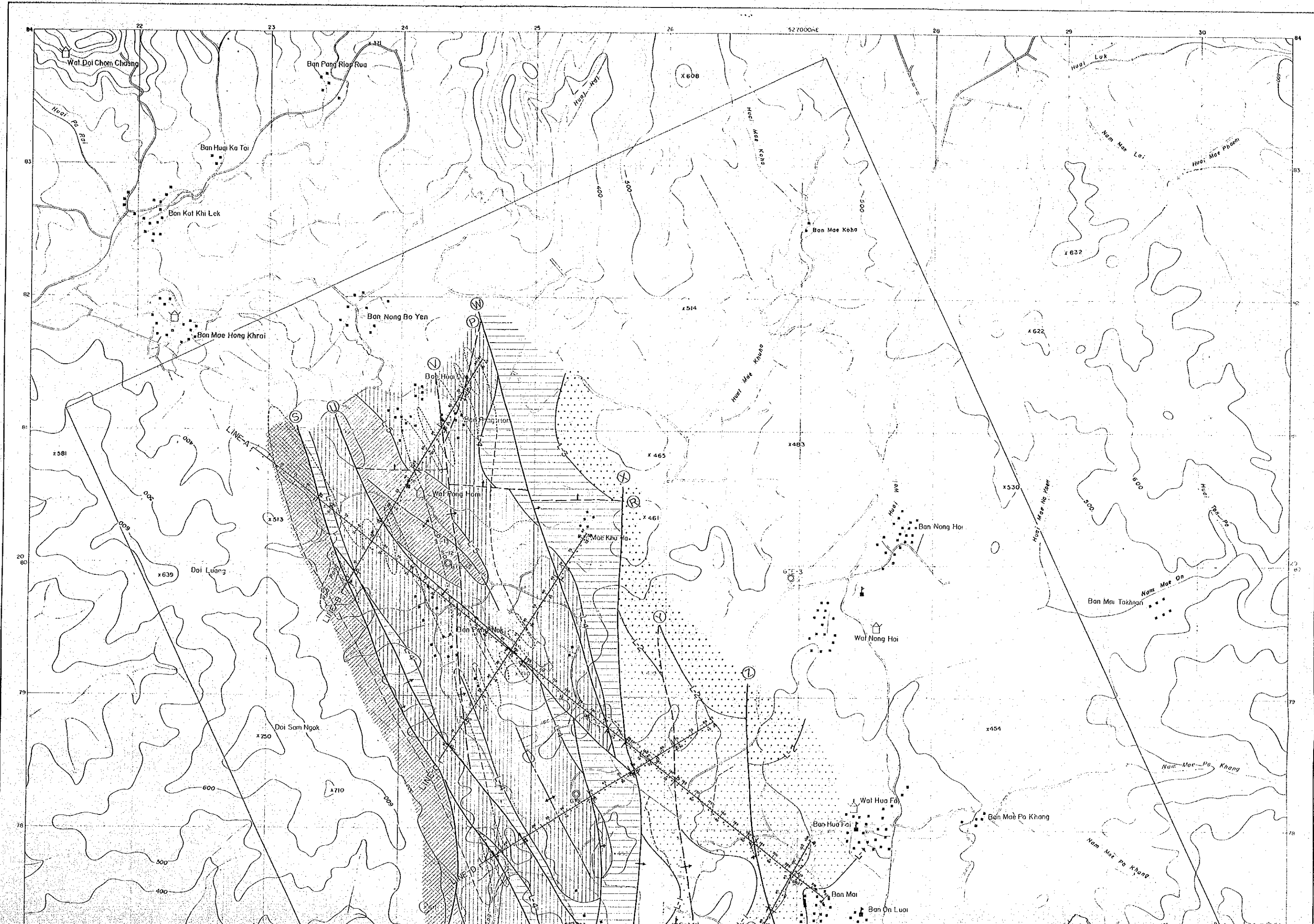
LEGEND

- Confirmed road
- Unconfirmed road
- Stream
- Village
- Wat
- School
- Rice field
- D.M. (water reserve)
- Reflective layer
- Decided fault (ex. S fault)
- Presumptive fault (ex. P fault)
- Anticline axis
- Syncline axis
- Low frequency zone ($f < 20\text{Hz}$)

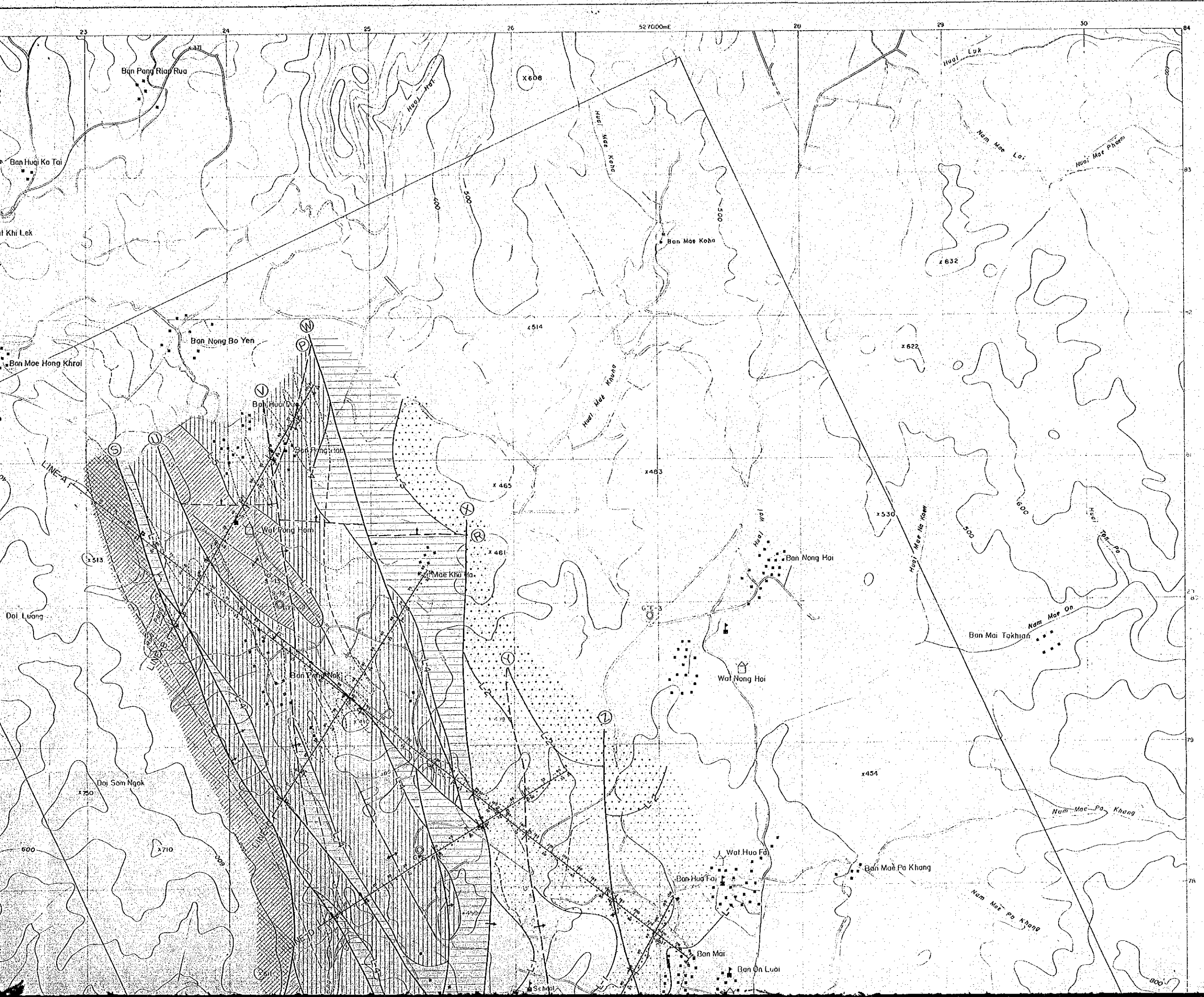




- L-5
 - L-4
 - L-5
 - L-6
 - L-7
 - L-8
- Reflective layer
- Decided fault (ex. S fault)
 - Presumptive fault (ex. P fault)
 - Anticline axis
 - Syncline axis
 - Low frequency zone (<20Hz)

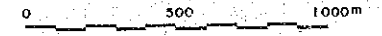


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THE PRE-FEASIBILITY STUDY PL II.2.2-47
 ON
 THE SAN KAMPAENG GEOTHERMAL DEVELOPMENT PROJECT
 IN THE KINGDOM OF THAILAND
 (DL -2000)
 DEPTH STRUCTURE ANALYSIS MAP

JAPAN INTERNATIONAL COOPERATION AGENCY
 ELECTRICITY GENERATING AUTHORITY OF THAILAND
 DEPARTMENT OF MINERAL RESOURCES
 CHIANG MAI UNIVERSITY
 MARCH 1983

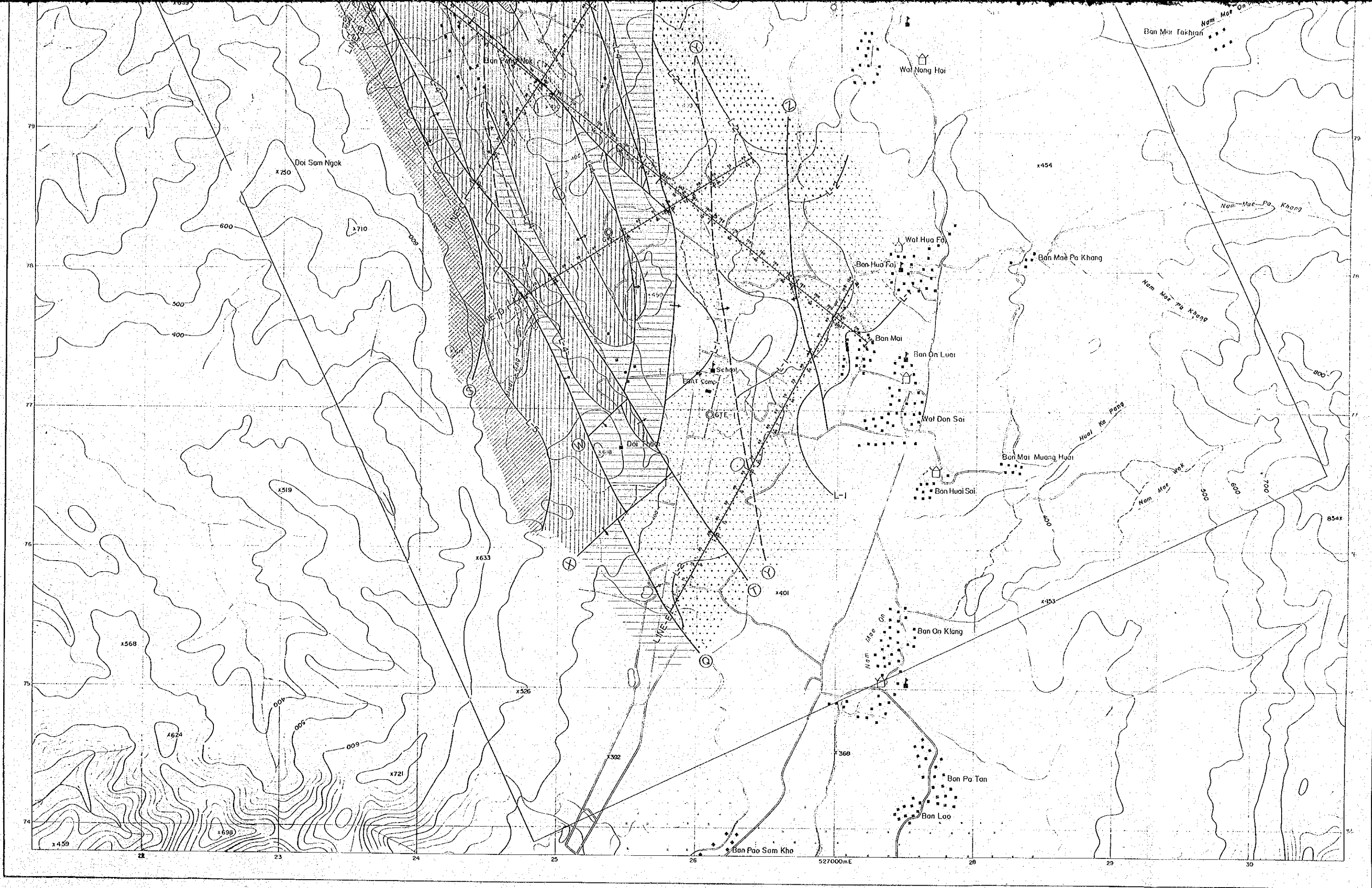


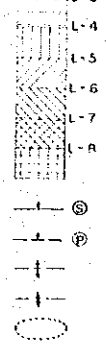
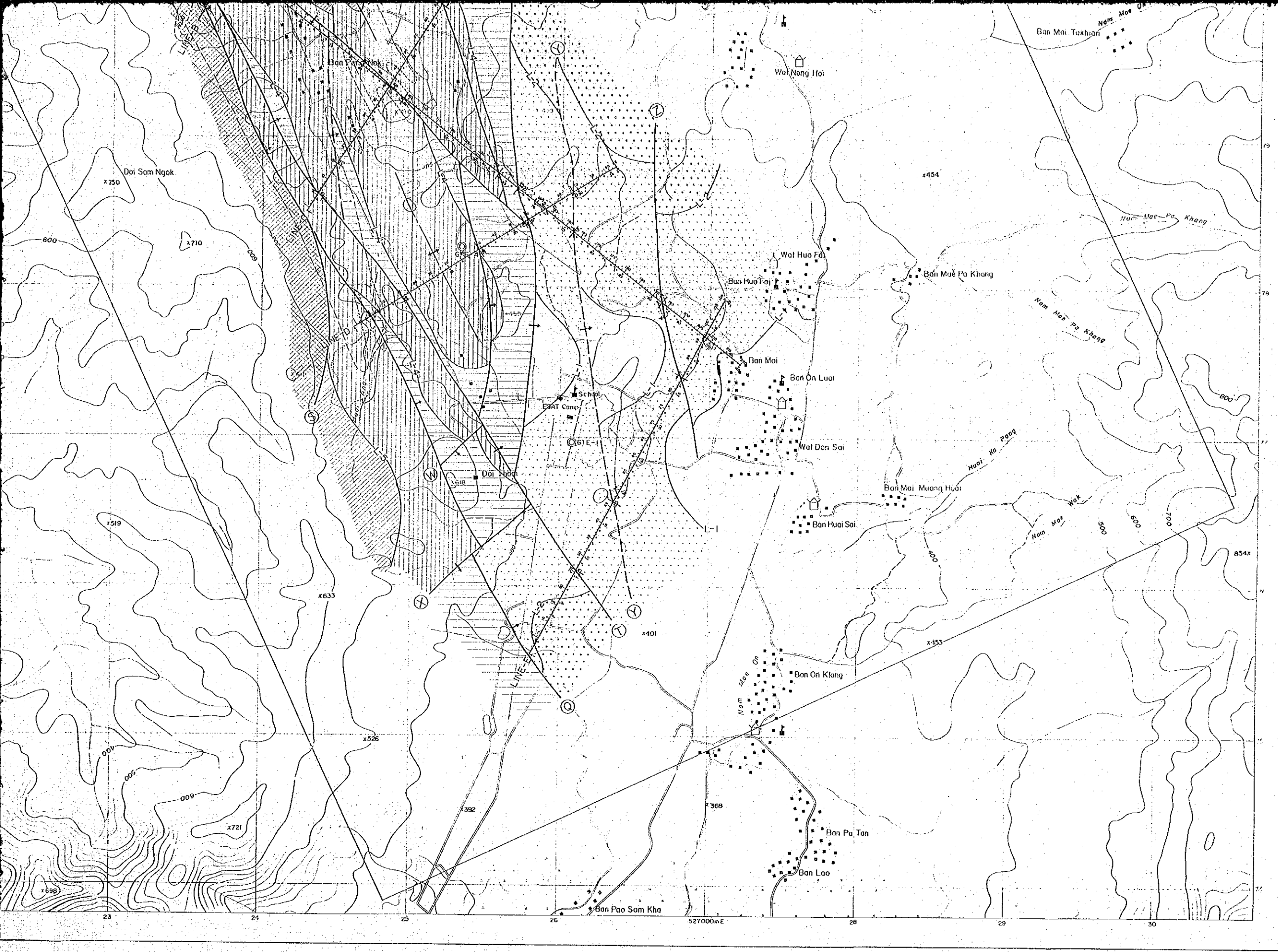
LEGEND

- Confirmed road
- Unconfirmed road
- Stream
- Village
- Wai
- School
- Rice field
- Dam (water reserve)

- Reflective layer
 L-1
 L-2
 L-3
 L-4
 L-5
 L-6
 L-7
 L-8

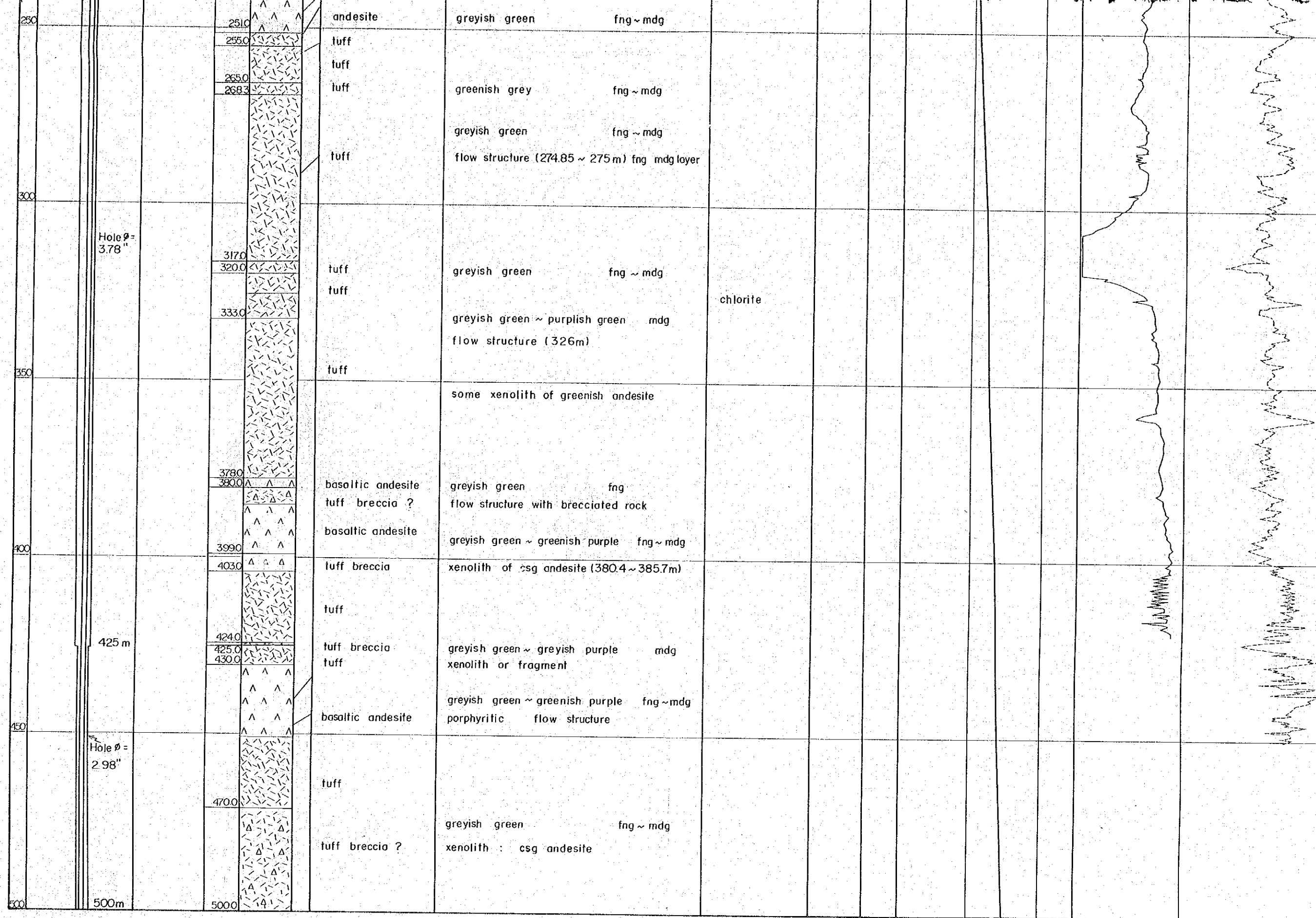
- Decided fault (ex. S fault)
- Presumptive fault (ex. P fault)
- Anticline axis
- Syncline axis
- Low frequency zone (<20Hz)



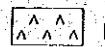
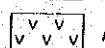
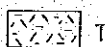
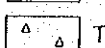


L-4
L-5
L-6
L-7
L-8
Reflective layer

⊙ **Decided fault (ex. S fault)**
⊗ **Presumptive fault (ex. P fault)**
—+— **Anticline axis**
—·— **Syncline axis**
○ **Low frequency zone (<20Hz)**



LEGEND

- Rock Name
-  Basaltic andesite
 -  Andesite
 -  Tuff
 -  Tuff breccia

PL. III. 2 - 1 COMPILED COLUMN OF GTE-1

Depth (m)	Drill Diameter Casing Program	Lost Circulation $\ell/\text{min.}$	Depth (m)	Geological Column	Inclination	Rock Name	Rock Facies	Alteration	Number of Cracks per m	Form of Core	Temperature ($^{\circ}\text{C}$)		Logging Data	
											50	100	SP (mV)	— SHORT ($\Omega\text{-m}$) --- NORMAL ($\Omega\text{-m}$)
			5.6			siltstone								
			8.4			siltstone								
			15.0			siltstone		white waxy mineral silicification						
			18.0			siltstone	grey~ black							
			300			siltstone		locally silicified						
			43.0			siltstone	grey~greyish black, quartz pyrite							
			51.3			silty shale	greyish black with sandstone lens							
50			51.3			shale	pyrite quartz							
			75.0			shale	calcite - quartz veinlet							
			95.0			shale	dark grey							
			100.5		45	sandstone	irregular sandstone bearing							
100			100.5			sandstone	dark grey medium grained							
			118.0			shale	dark grey							
			126.5			shale	dark grey							
			130.0			shale	calcareous shale							
			131.15			recrystallized limestone	recrystallized limestone							
			135.0			shale								
			141.4			shale	grey-green							
150			150.3			shale	dark - grey							
			156.0			siltstone	calcareous							
			158.8			shale								
			161.0			calcareous siltstone								
			166.5			shale								
			169.0			calcareous shale								
			178.3			limestone & shale	bluish dark grey limestone							
			182.7			shale	dark grey pyrite and calcite abundant							
			183.5			sparry limestone	dark grey cleavaged							
			188.3			shale								
			195.1			carbonaceous shale	calcite veinlet							
200			221.0			limestone	light grey							
			224.0			shale	light grey							
			233.2			carbonaceous shale	black, rather brittle and easy to break							
			235.0			calcareous shale	dark grey							
250			267.3			carbonaceous shale								
			273.3			limestone	light grey laminated							
			275.6			limestone								

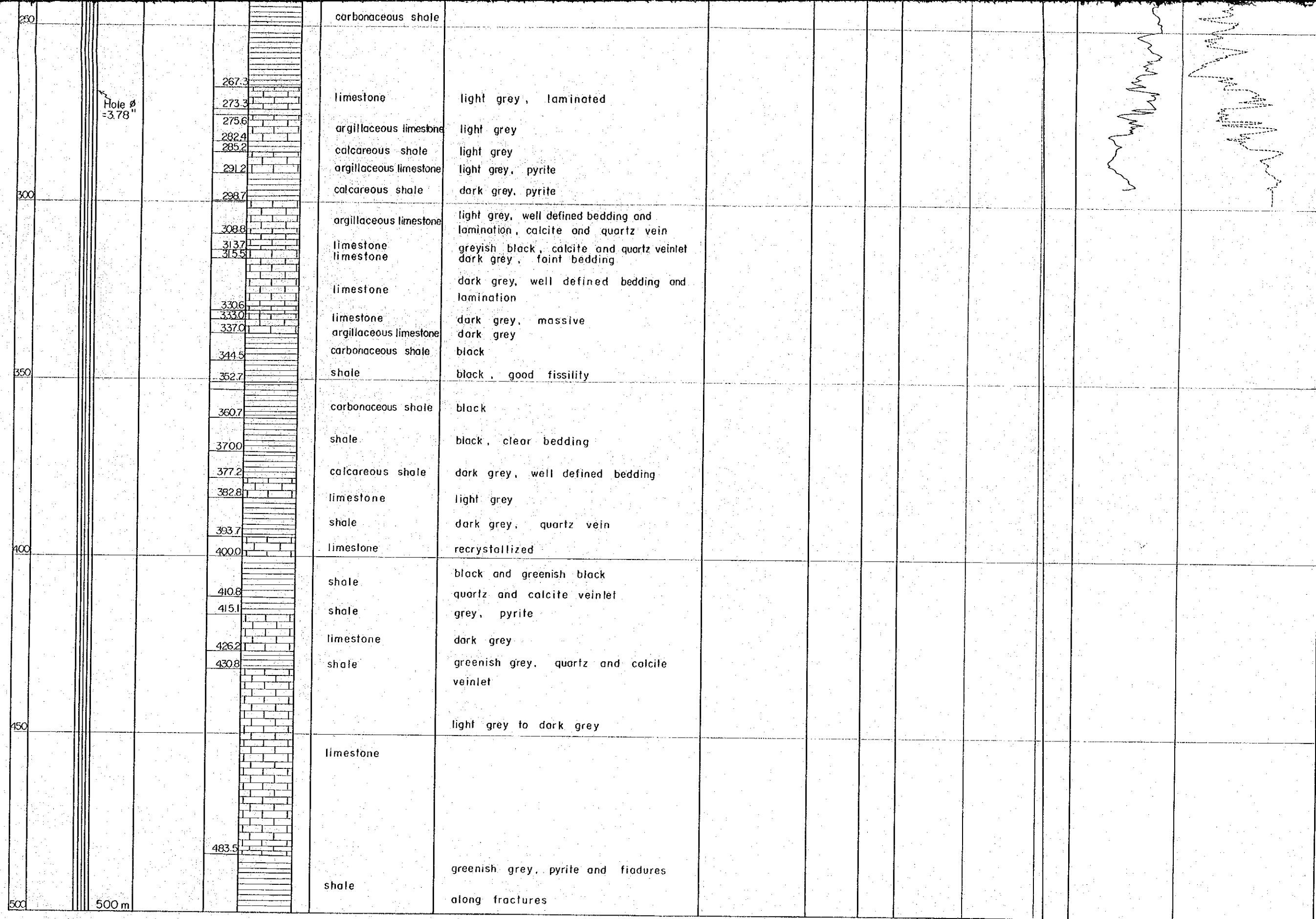
2.0" water pipe
Hole ϕ = 6.75"

51m Casing pipe ϕ = 5.5"





Hole ϕ = 4.89"

118 m

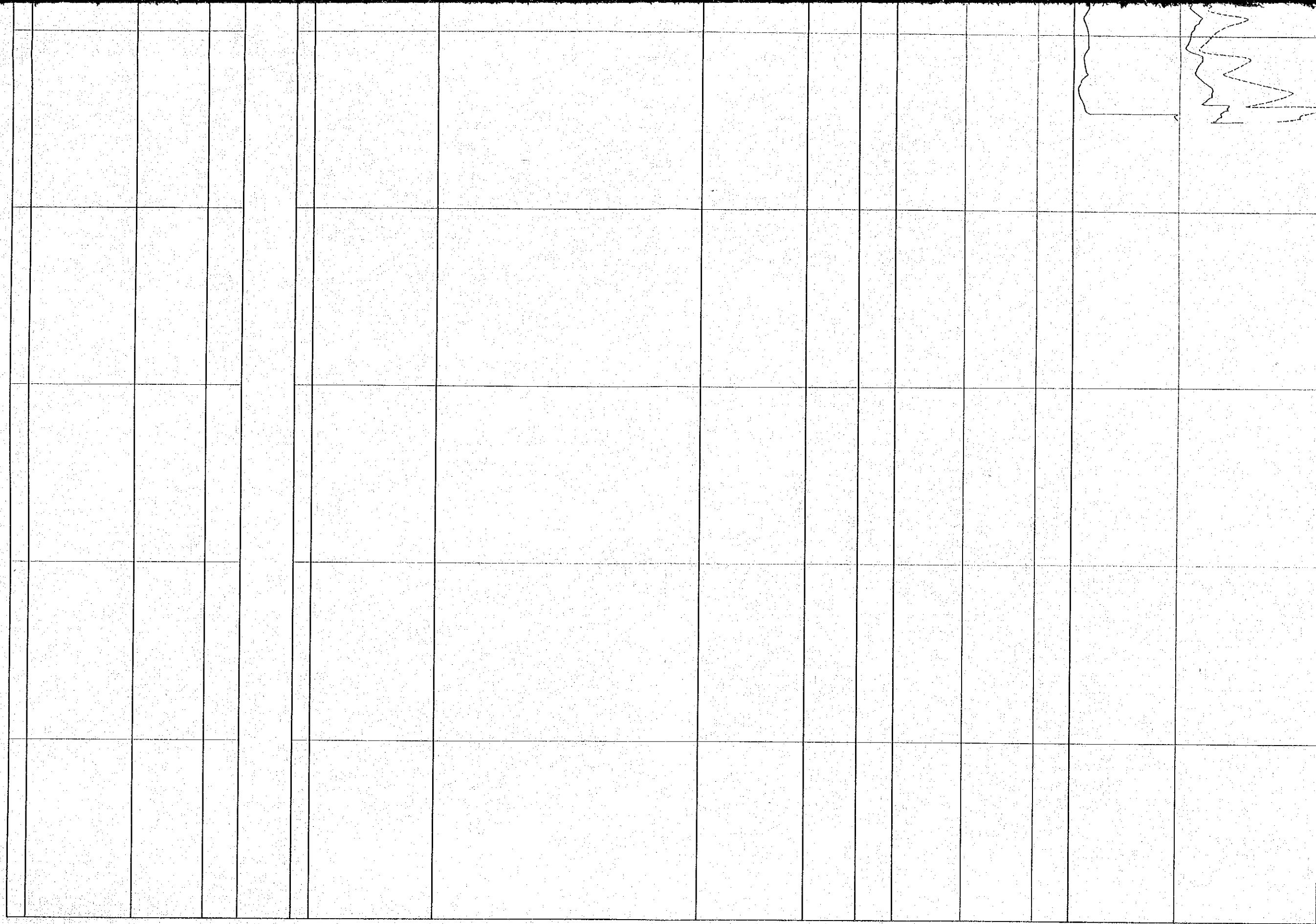
Hole ϕ = 3.78"






LEGEND

- Rock Name
-  Siltstone
 -  Sandstone
 -  Shale
 -  Limestone

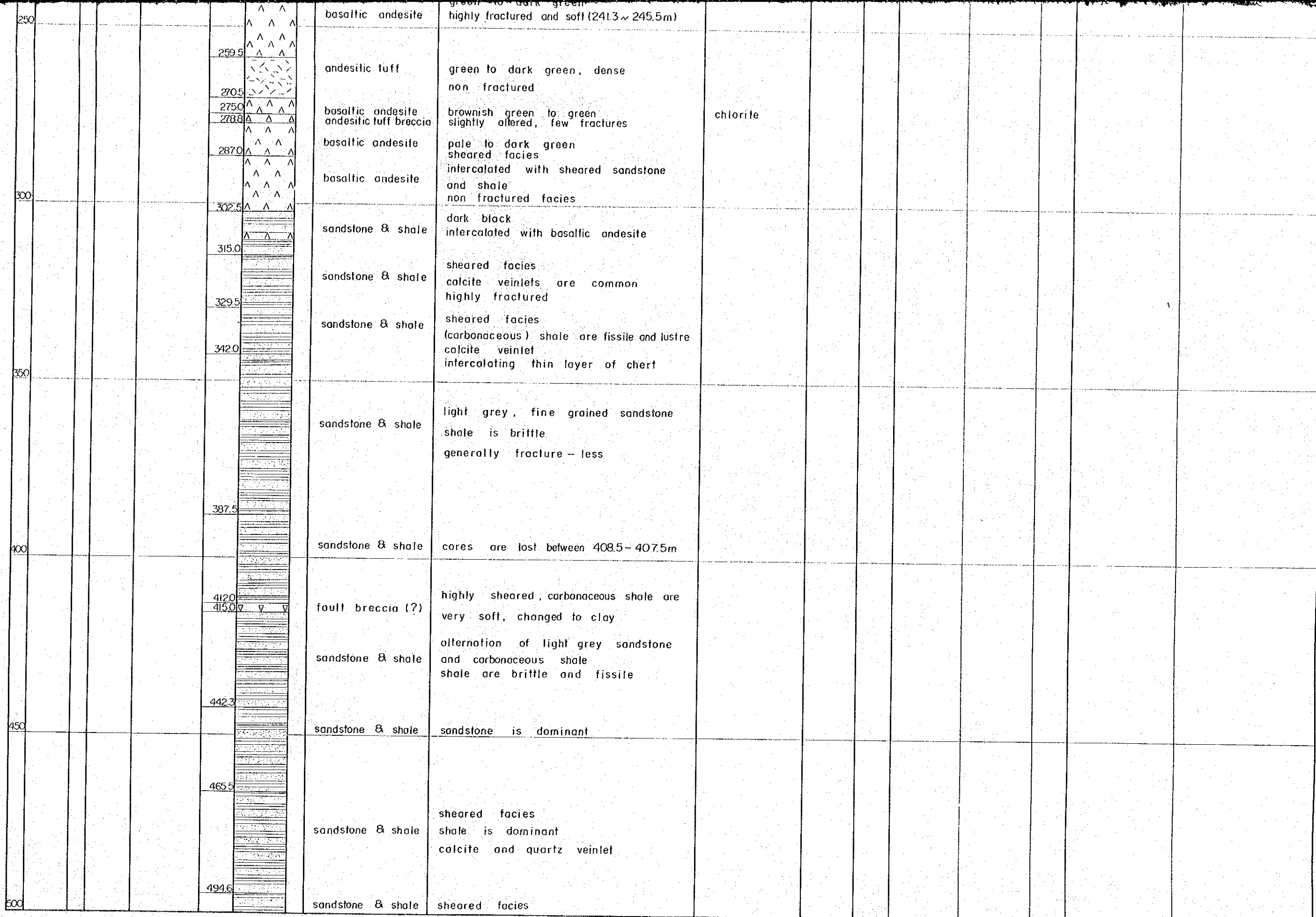
PL. III. 2-2 COMPILED COLUMN OF GTE-2



LEGEND

Rock Name  Tuff  Basalt
 Lapilli tuff or Tuff breccia

PL. III. 2-3 COMPILED COLUMN OF GTE-3



LEGEND

Rock Name	Shale	Tuff	Fault breccia
	Sandstone	Basaltic andesite	
	Limestone	Tuff breccia	