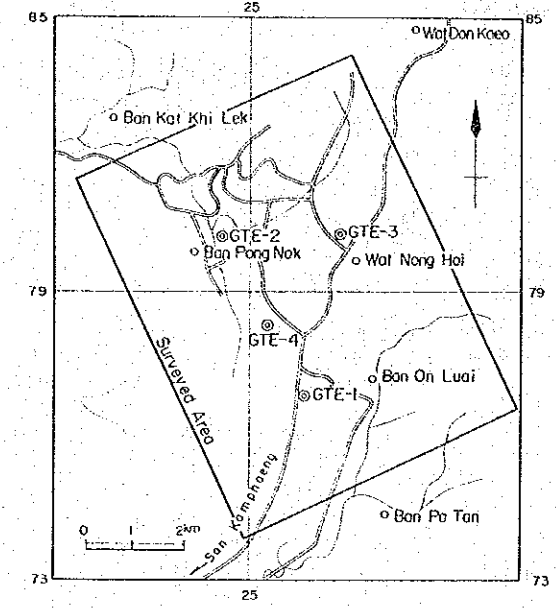


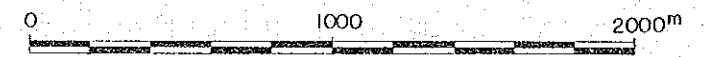
THE PRE-FEASIBILITY STUDY
ON
THE SAN KAMPAENG GEOTHERMAL DEVELOPMENT PROJECT
IN THE KINGDOM OF THAILAND

DEEP GRAVIMETRIC COMPONENT



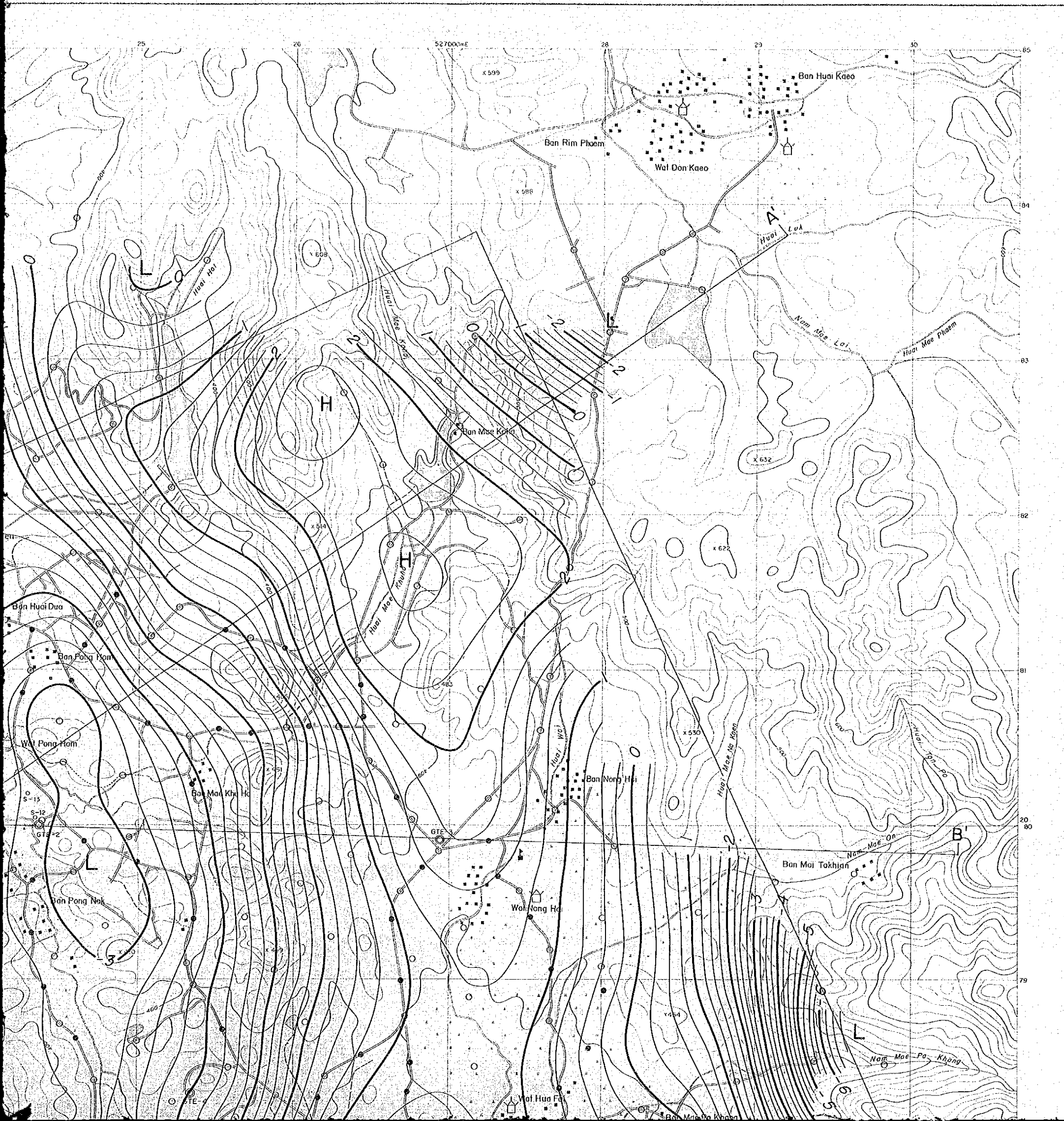
JAPAN INTERNATIONAL COOPERATION AGENCY
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DEPARTMENT OF MINERAL RESOURCES
CHIANG MAI UNIVERSITY

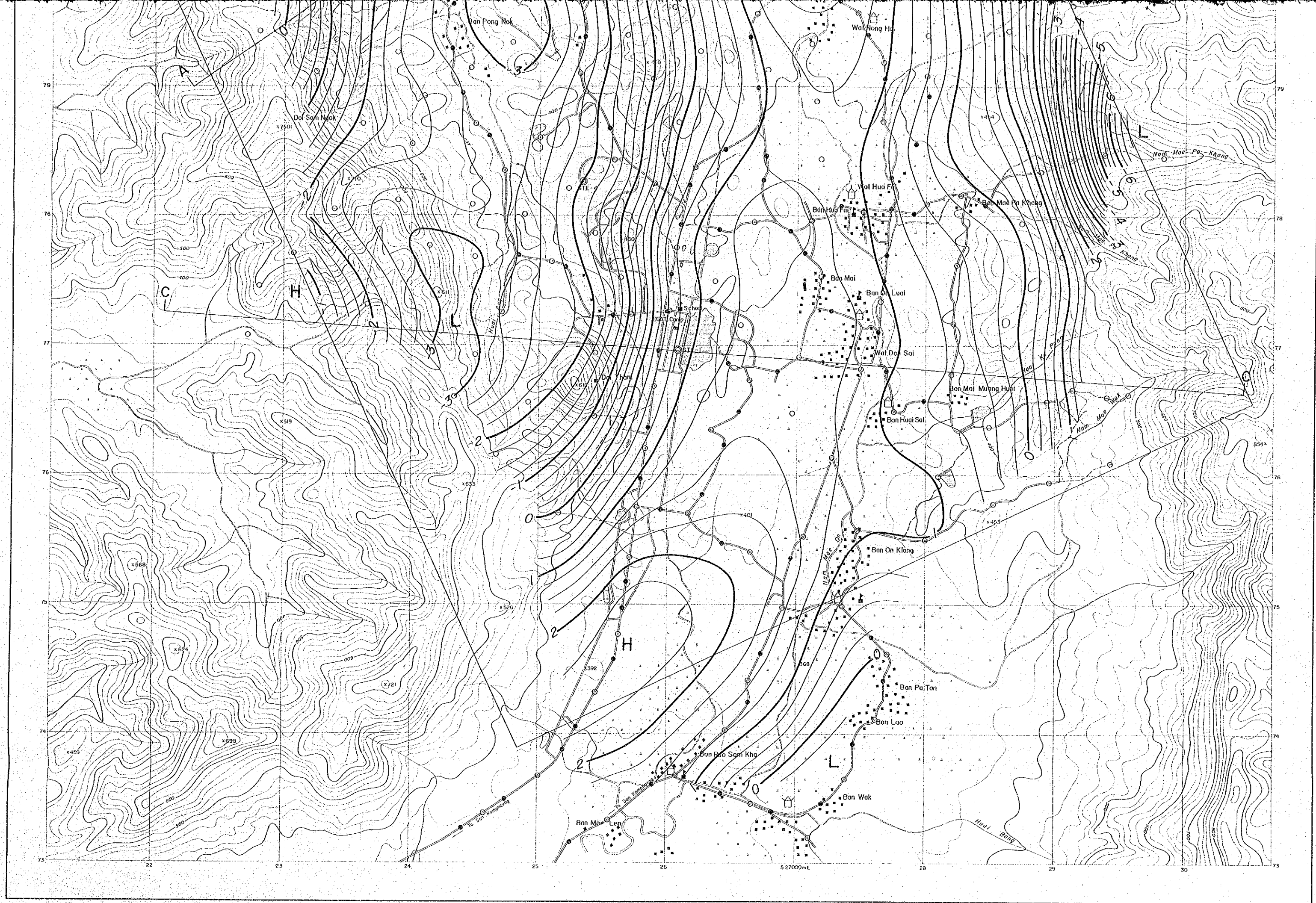
MARCH 1983

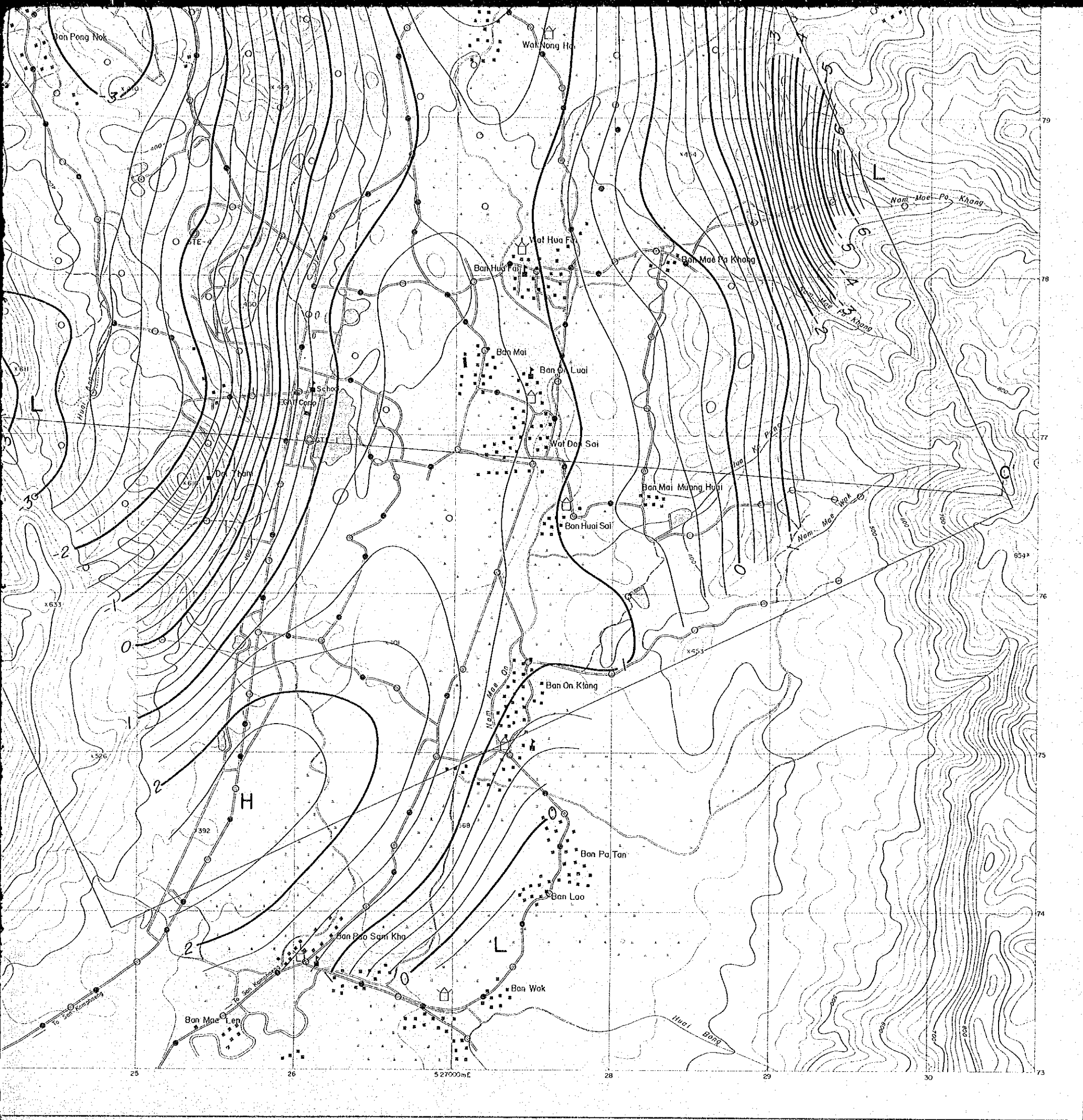


LEGEND

- | | | | |
|--|-------------|--|---------------------|
| | Wide road | | Wat |
| | Narrow path | | School |
| | Stream | | Rice field |
| | Village | | Dam (water reserve) |



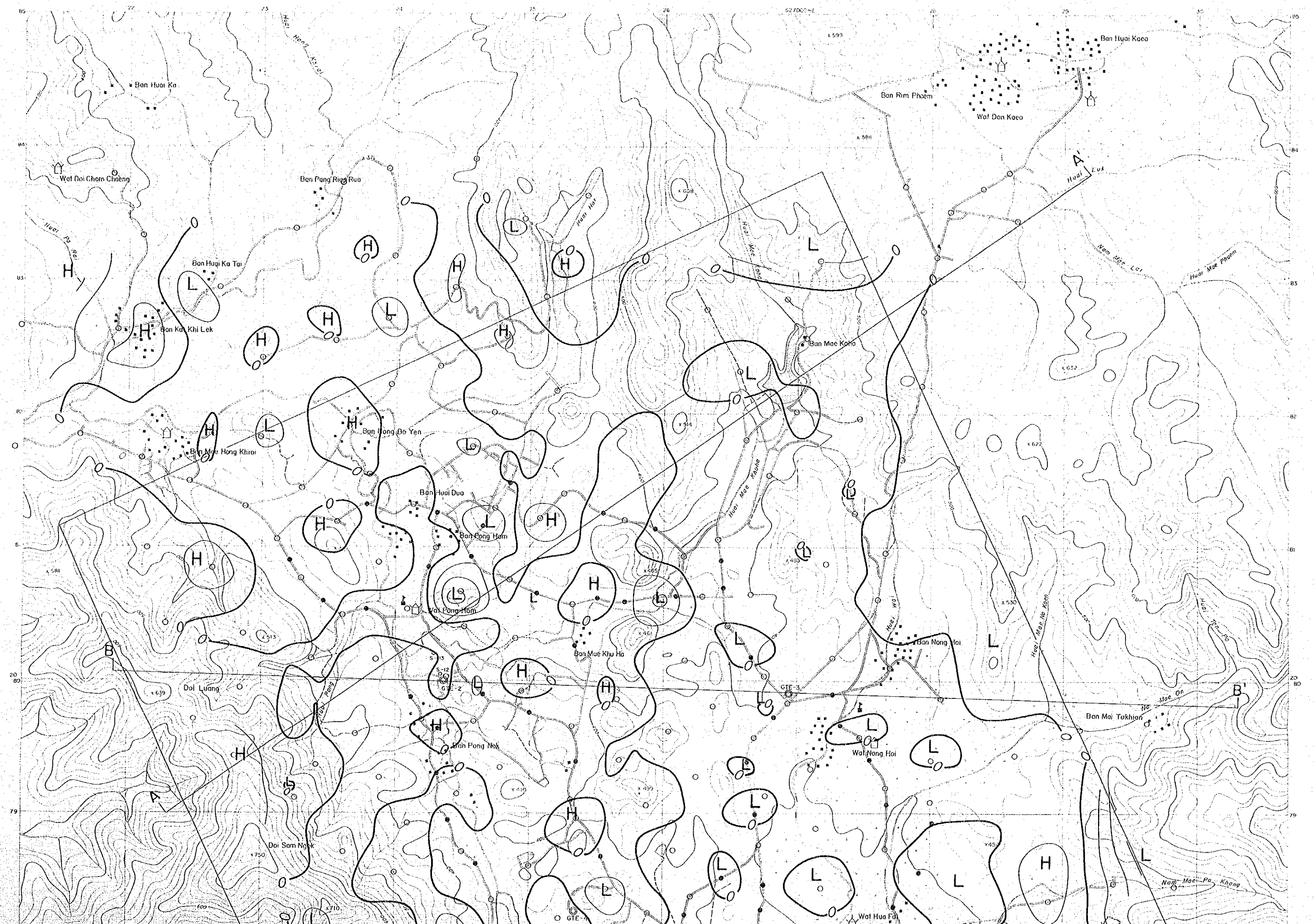




LEGEND

- Wide road
- Narrow path
- Stream
- Village
- Wat
- School
- Rice field
- Dam (water reserve)

- Gravity station surveyed by JICA
- Gravity station surveyed by DMR
- Drill hole
- 1.0 mgal
- 0.25 mgal
- Contour line
- High gravity anomaly
- Low gravity anomaly
- Profile of underground structure



Ban Hui Ka

Wat Doi Chom Chong

Ban Pang Rung Ruo

Ban Hui Ka Tai

Ban Ka Khi Lek

Ban Mu Hong Khroi

Ban Hong Do Yen

Ban Hui Dua

Ban Cong Hom

Wat Pong Hom

Ban Mu Khu Ha

Doi Luang

Ban Pong Nok

Doi Sam Nok

Ban Rim Phom

Wat Don Kaeo

Ban Hui Kaeo

Ban Mae Koha

Ban Nong Hoi

Ban Mai Tukhian

Wat Nong Hoi

Wat Hua Fai

Nam Mae Pa Khong

527000-2

x 593

x 586

x 508

x 514

x 565

x 499

x 530

x 622

x 531

x 639

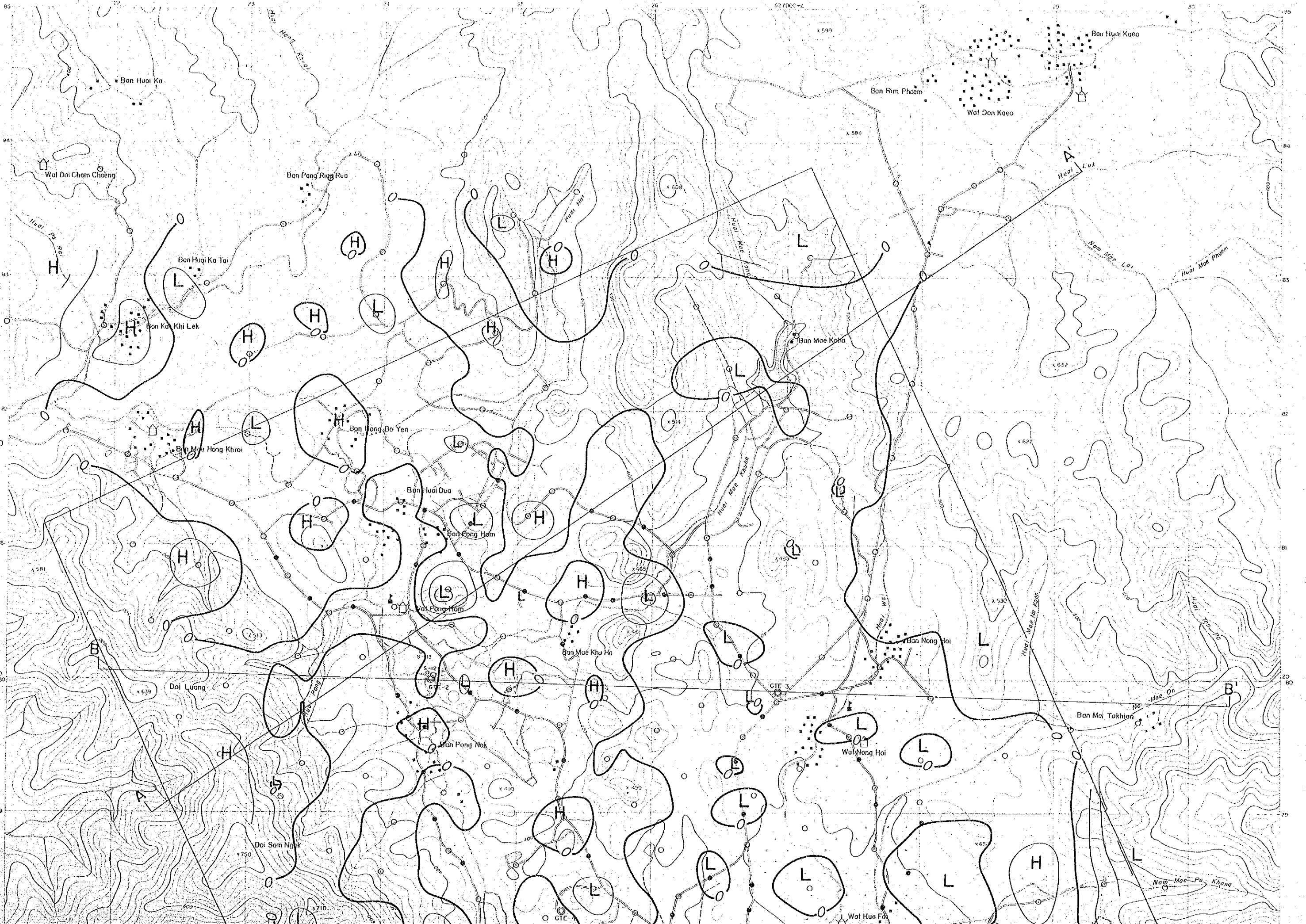
x 750

x 710

x 410

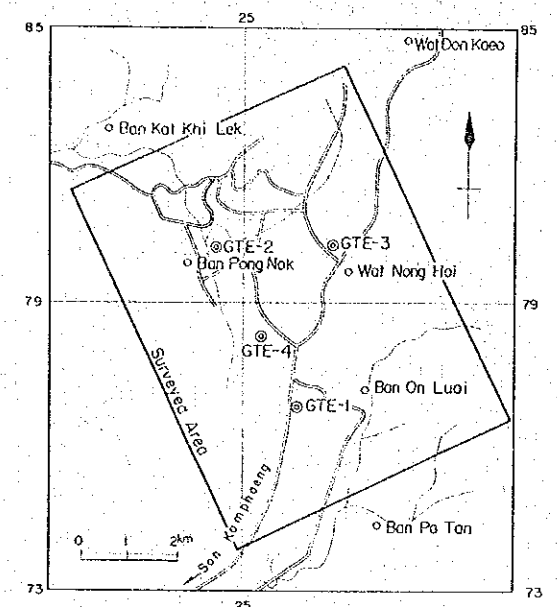
x 450

x 45



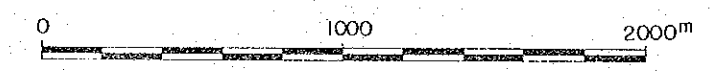
THE PRE-FEASIBILITY STUDY
ON
THE SAN KAMPAENG GEOTHERMAL DEVELOPMENT PROJECT
IN THE KINGDOM OF THAILAND

SHALLOW GRAVIMETRIC COMPONENT



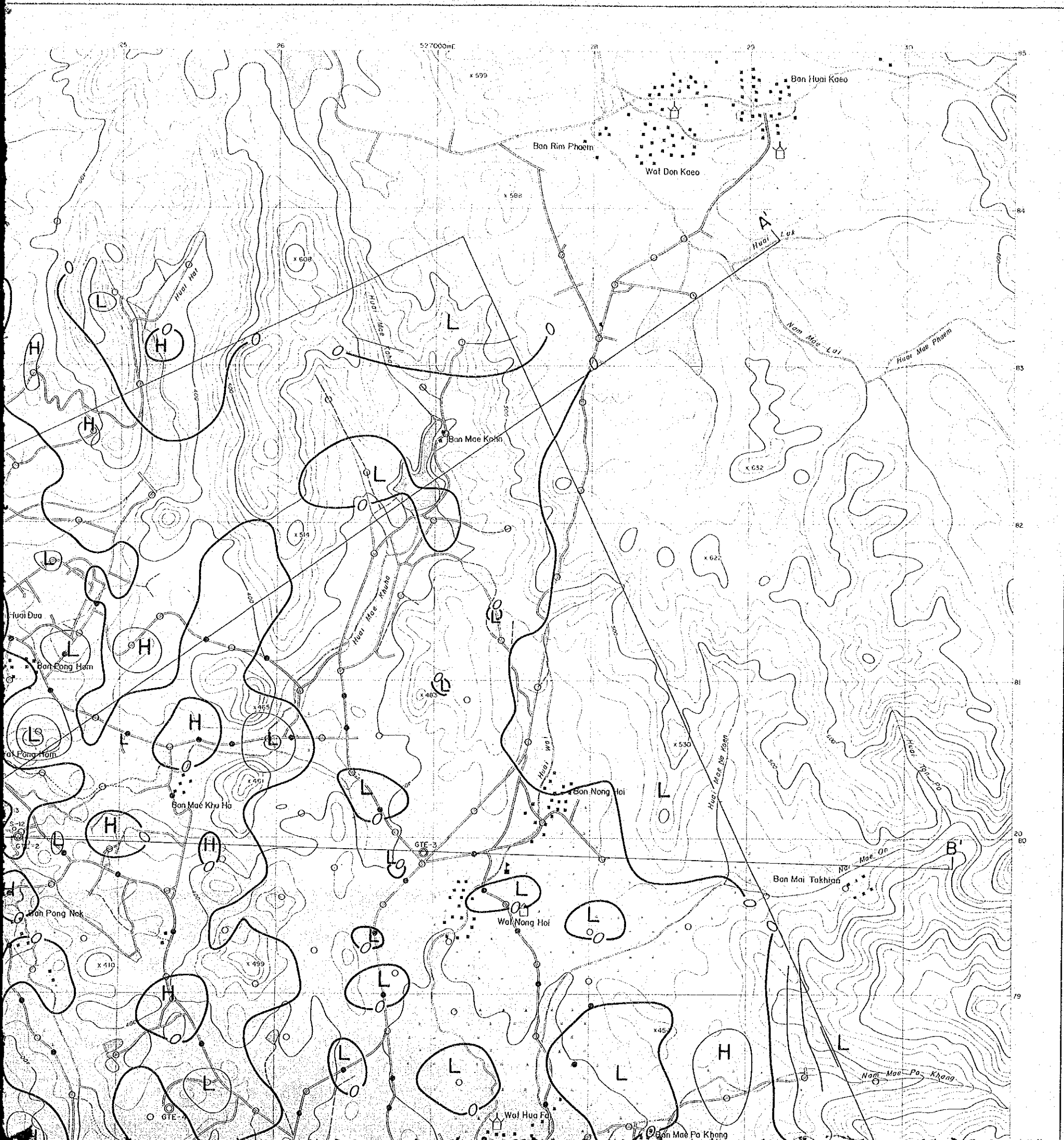
JAPAN INTERNATIONAL COOPERATION AGENCY
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DEPARTMENT OF MINERAL RESOURCES
CHIANG MAI UNIVERSITY

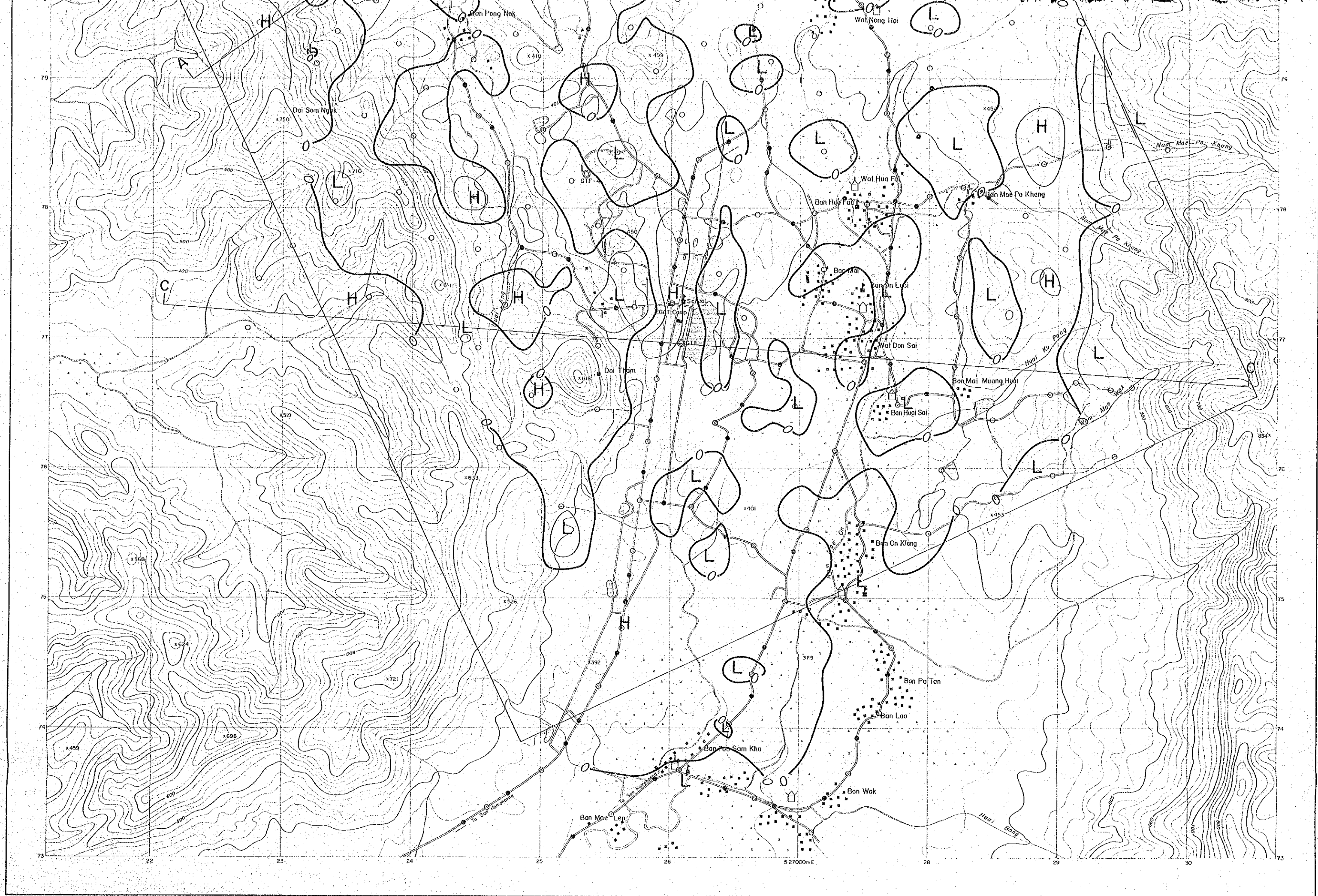
MARCH 1983

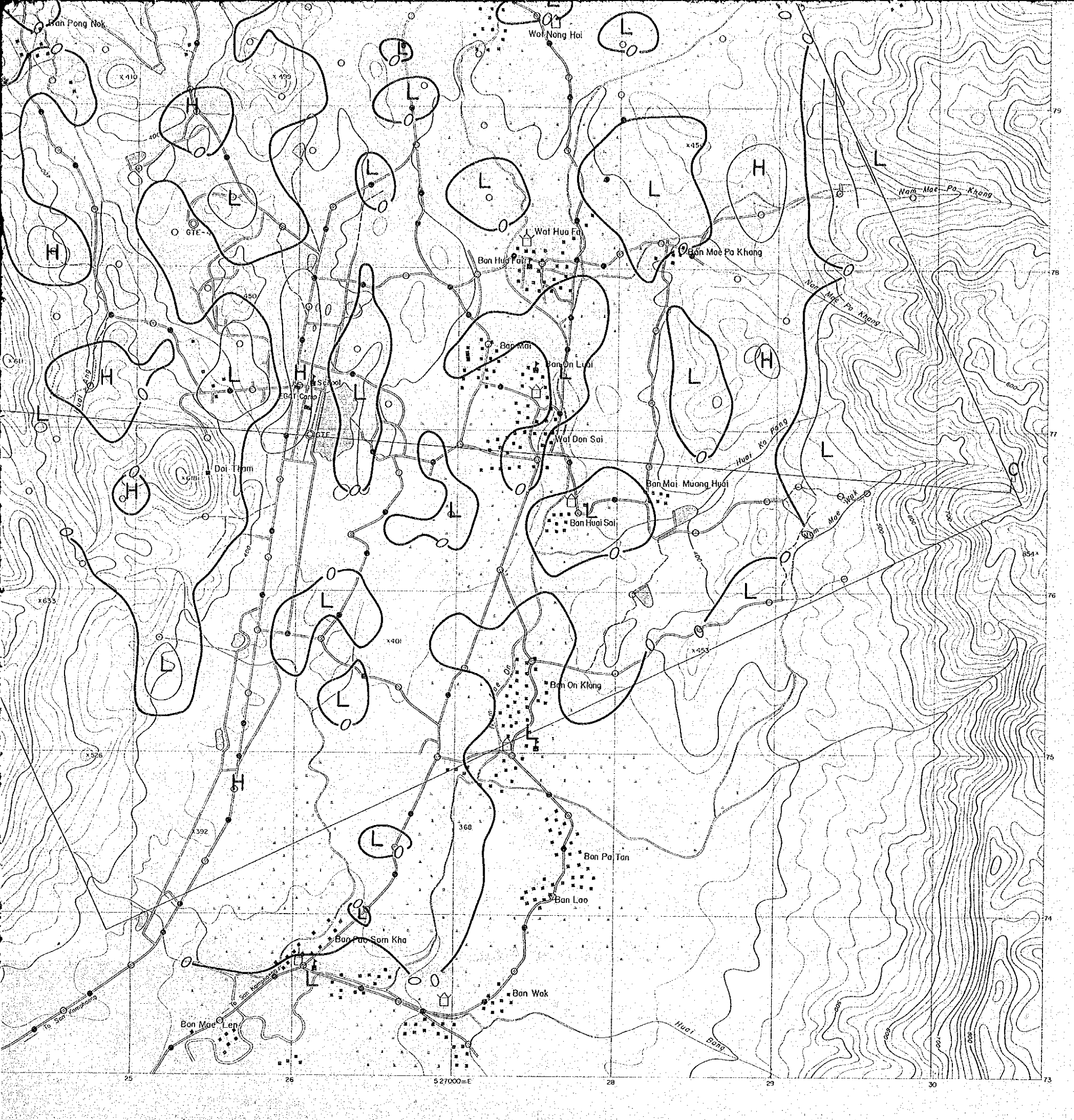


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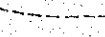
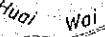





- Wide road
- Narrow path
- Stream
- Village
- Wat
- School
- Rice field
- Dam (water reserve)














LEGEND

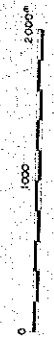
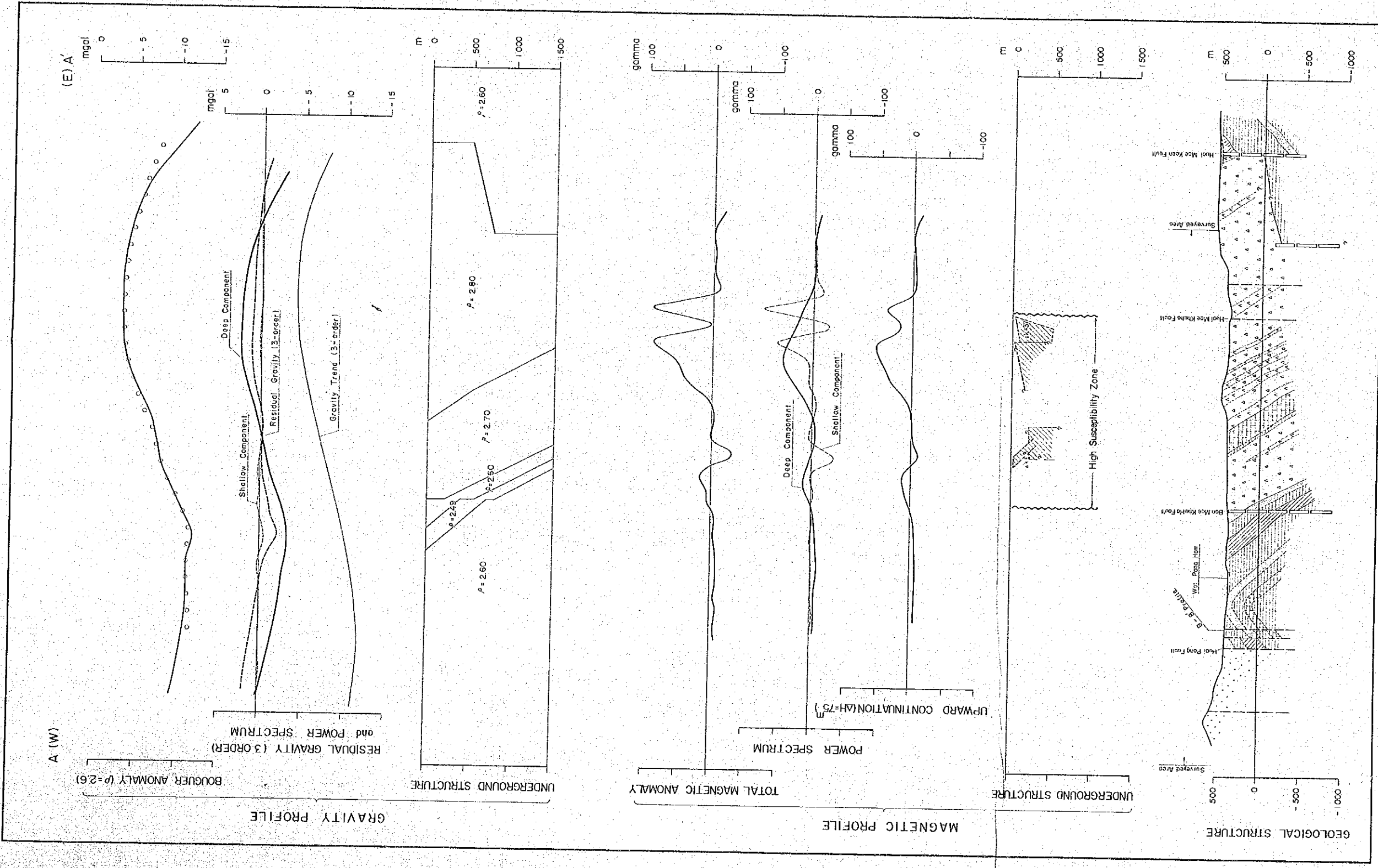
-  Wide road
-  Narrow path
-  Stream
-  Village
-  Wat
-  School
-  Rice field
-  Dam (water reserve)

-  Gravity station surveyed by JICA
-  Gravity station surveyed by DMR
-  Drill hole
-  0.25 mgal Contour line
-  High gravity anomaly
-  Low gravity anomaly
-  Profile of underground structure

PL.II.2-6
 THE PRE-FEASIBILITY STUDY
 ON
 THE SAN KAMPAENG GEOTHERMAL DEVELOPMENT PROJECT
 IN THE KINGDOM OF THAILAND

PROFILE OF UNDERGROUND STRUCTURE
 (GRAVITY SURVEY
 MAGNETIC SURVEY)
 (A - A')

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



LEGEND

GRAVITY PROFILE

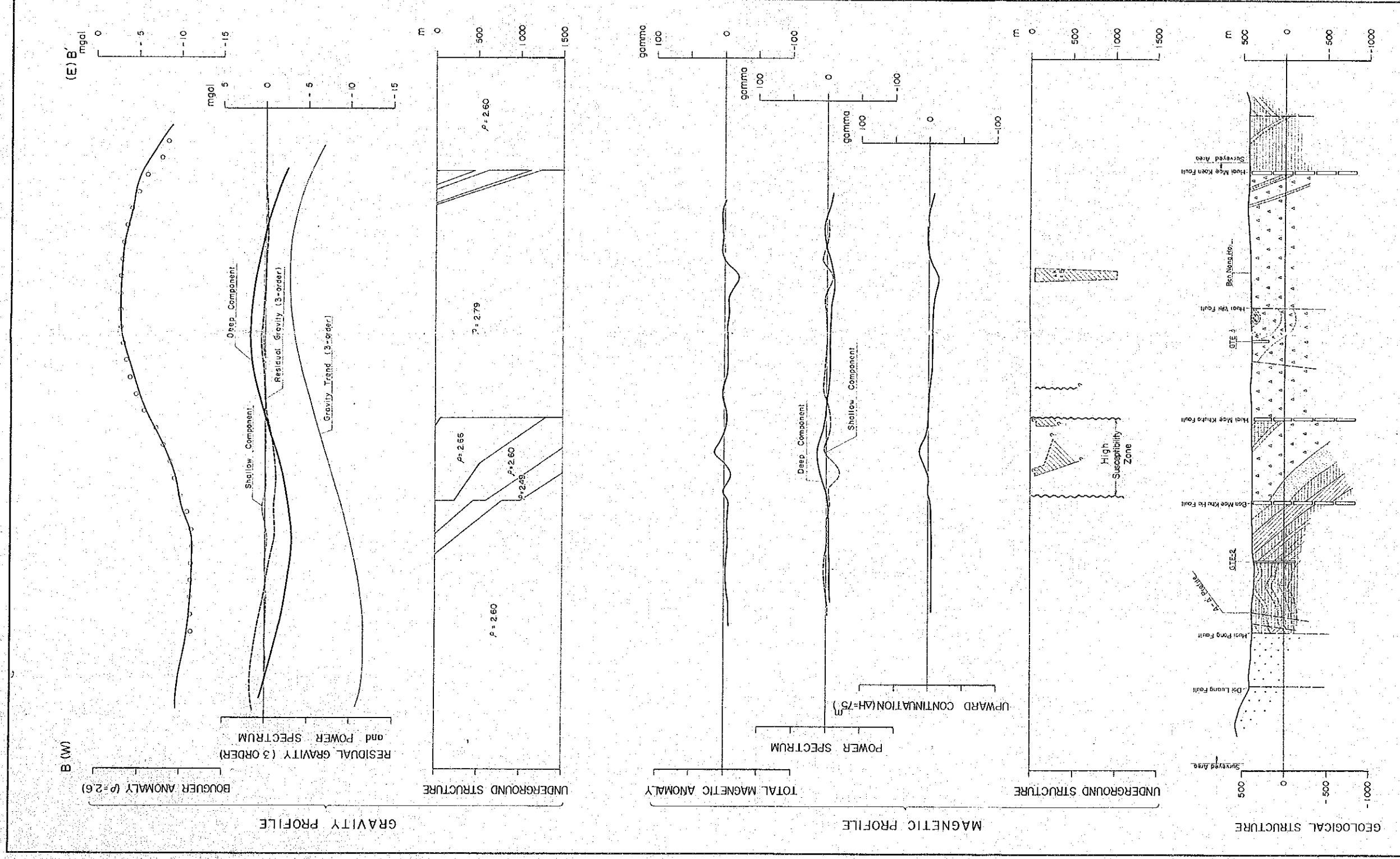
- Estimated gravity values
- ρ Assumed density (g/cm³)

MAGNETIC PROFILE

- Magnetic body
- Magnetic susceptibility (10⁻⁶ cgsemu)
- Magnetic boundary

GEOLOGICAL PROFILE

- Alluvium
- Upper: Basaltic tuff, tuff breccia, lapilli tuff, Basalt
- Middle-Lower: Shale, Sandstone, Chert, Limestone
- Carboniferous Mae Tho Formation: Sandstone
- Fault
- Four-like structure (Density boundary)



PL.II.2-7

THE PRE-FEASIBILITY STUDY
ON
THE SAN KAMPAENG GEOTHERMAL DEVELOPMENT PROJECT
IN THE KINGDOM OF THAILAND

PROFILE OF UNDERGROUND STRUCTURE
(GRAVITY SURVEY)
(MAGNETIC SURVEY)
(B - B)

JAPAN INTERNATIONAL COOPERATION AGENCY
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DEPARTMENT OF MINERAL RESOURCES
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MARCH 1983



LEGEND

GRAVITY PROFILE

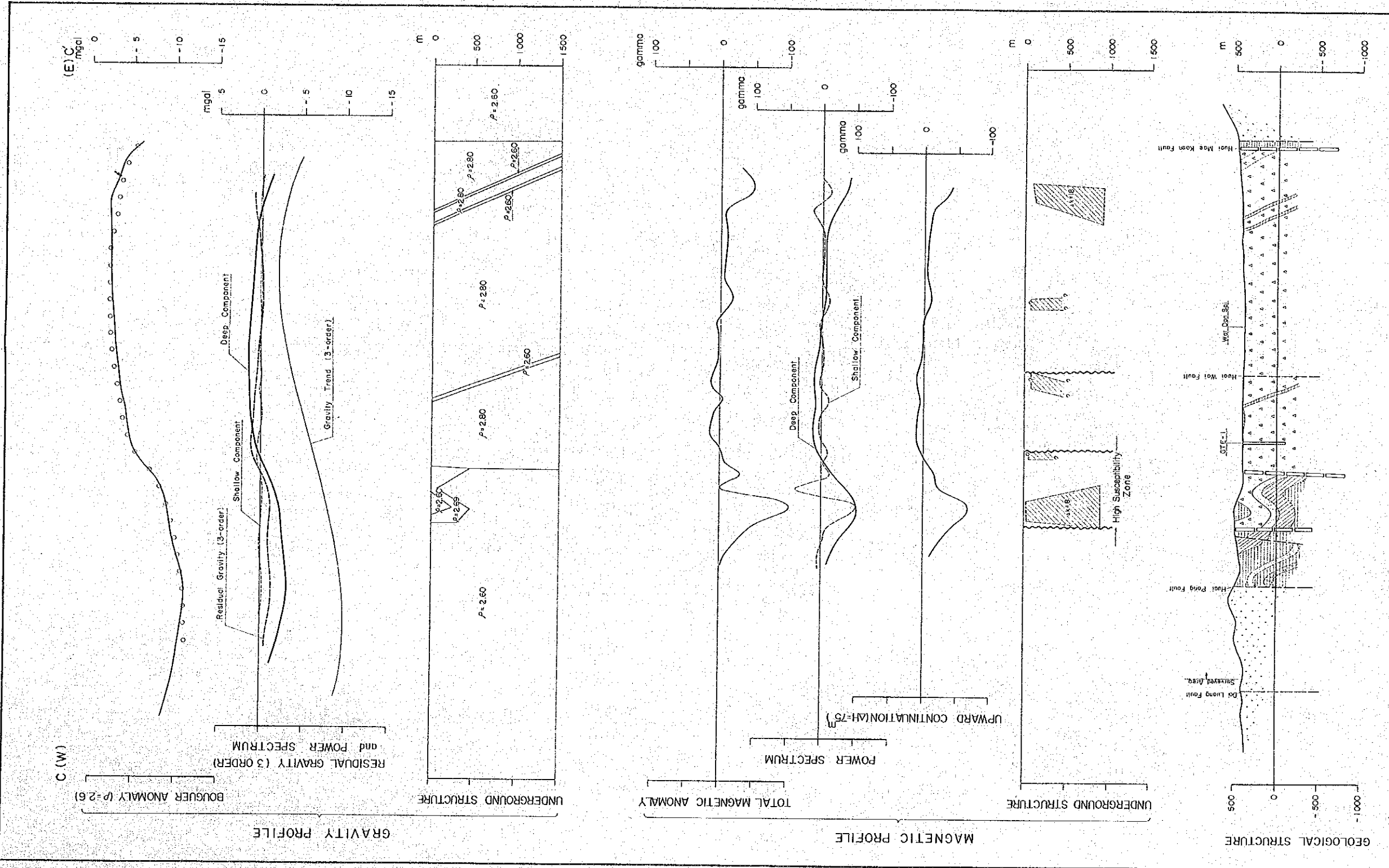
- Estimated gravity values
- Assumed density (ρ/cm^3)

MAGNETIC PROFILE

- Magnetic body
- Magnetic susceptibility (10^{-4} cgsemu)
- Magnetic boundary

GEOLOGICAL PROFILE

- Alluvium
- Upper
 - Basaltic tuff, tuff breccia
 - Lapilli tuff
 - Basalt
- Middle-Lower
 - Shale
 - Sandstone
 - Chert
 - Limestone
 - Sandstone
- Carboniferous Mae Tha Formation
- Fault
- Fault-like structure (Density boundary)



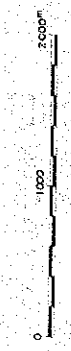
PL.II.2-8

THE PRE-FEASIBILITY STUDY
ON
THE SAN KAMPAENG GEOTHERMAL DEVELOPMENT PROJECT
IN THE KINGDOM OF THAILAND

**PROFILE OF UNDERGROUND STRUCTURE
(GRAVITY SURVEY)
(MAGNETIC SURVEY)**

(C - C')

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



LEGEND

GRAVITY PROFILE

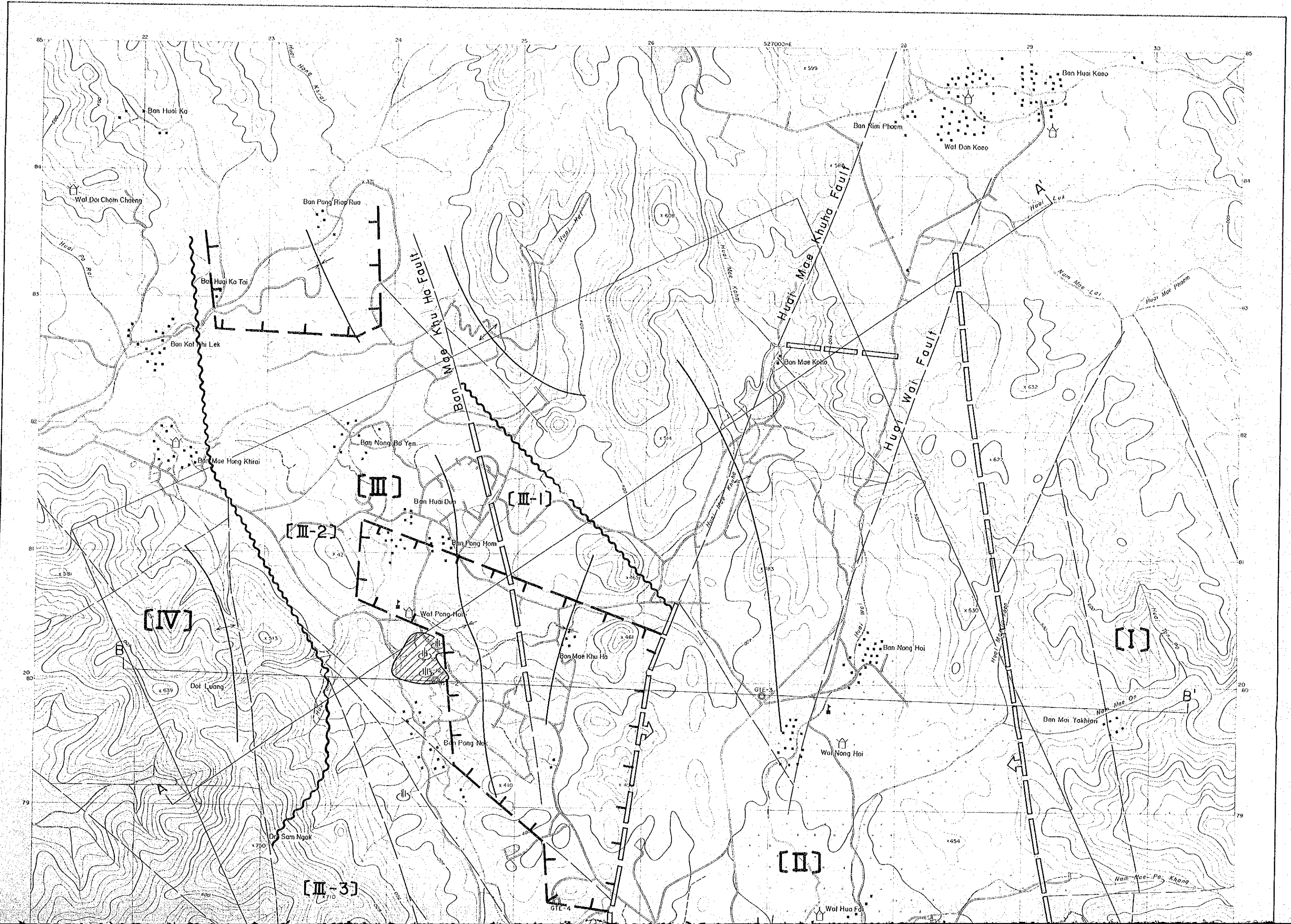
- Estimated gravity values
- P Assumed density (g/cm³)

MAGNETIC PROFILE

- Magnetic body
- Magnetic susceptibility (10⁻⁴ cgsemu)
- Magnetic boundary

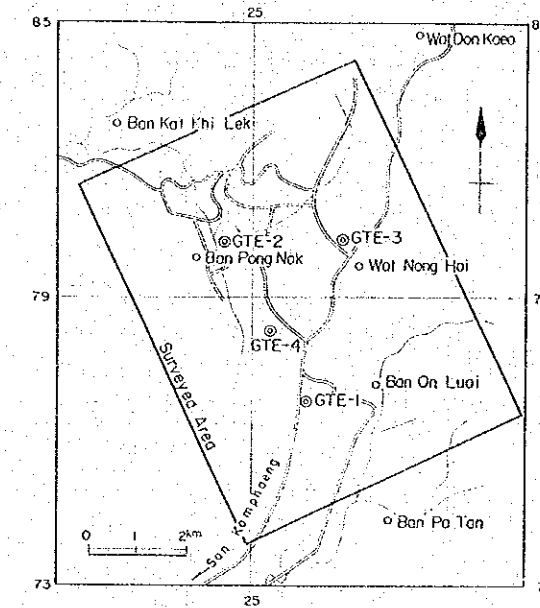
GEOLOGICAL PROFILE

- Alluvium
- Upper
- Permian Klu Lam Formation
- Middle-Lower
- Carboniferous Mae Tha Formation
- Aluvial deposit
- Basaltic tuff, tuff breccia, lapilli tuff
- Basalt
- Shale
- Sandstone
- Chert
- Limestone
- Sandstone
- Fault
- Fault-like structure (Density boundary)



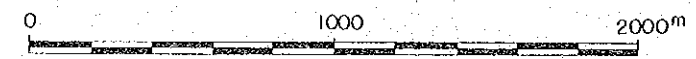
THE PRE-FEASIBILITY STUDY
ON
THE SAN KAMPAENG GEOTHERMAL DEVELOPMENT PROJECT
IN THE KINGDOM OF THAILAND

UNDERGROUND STRUCTURE



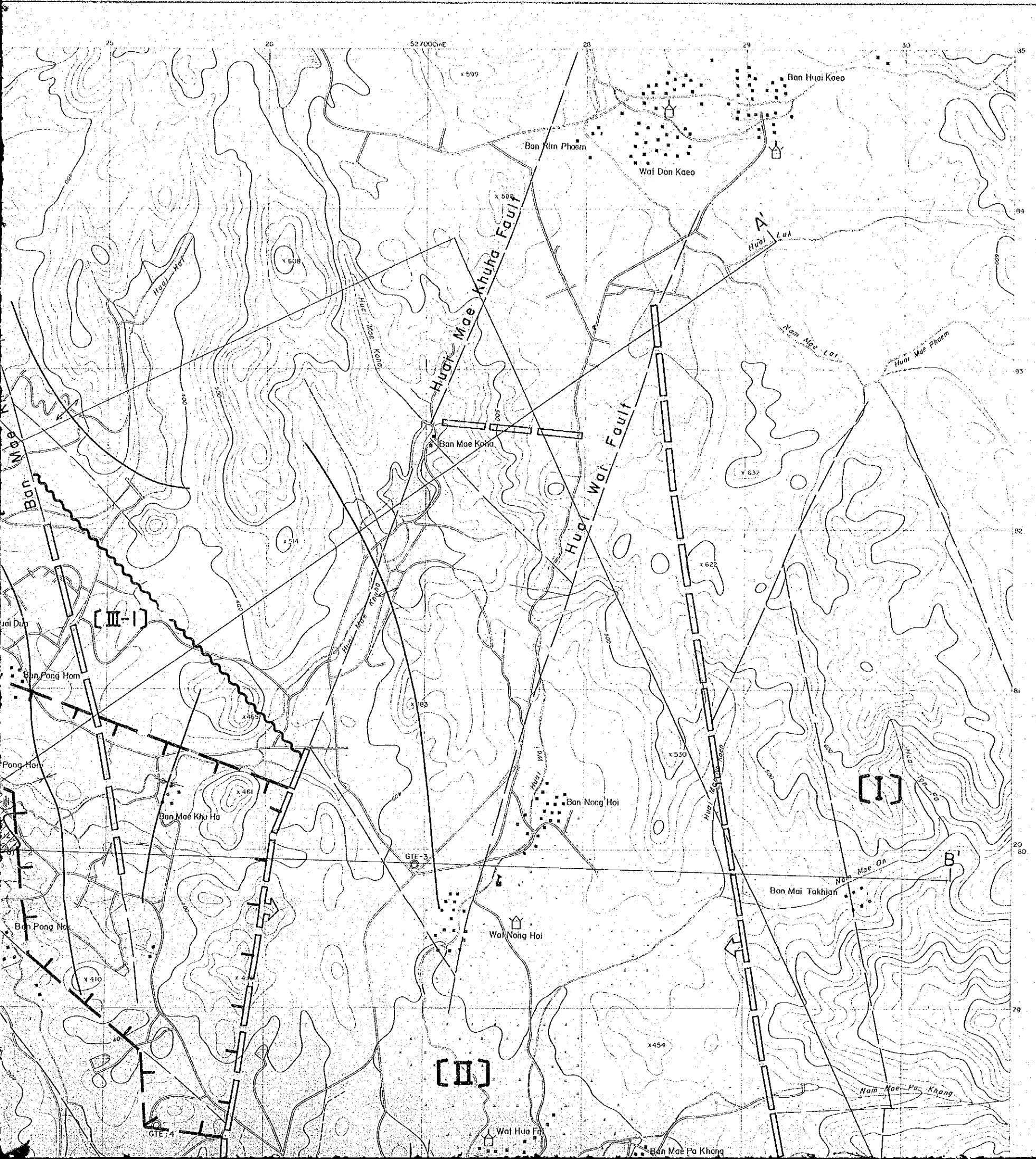
JAPAN INTERNATIONAL COOPERATION AGENCY
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DEPARTMENT OF MINERAL RESOURCES
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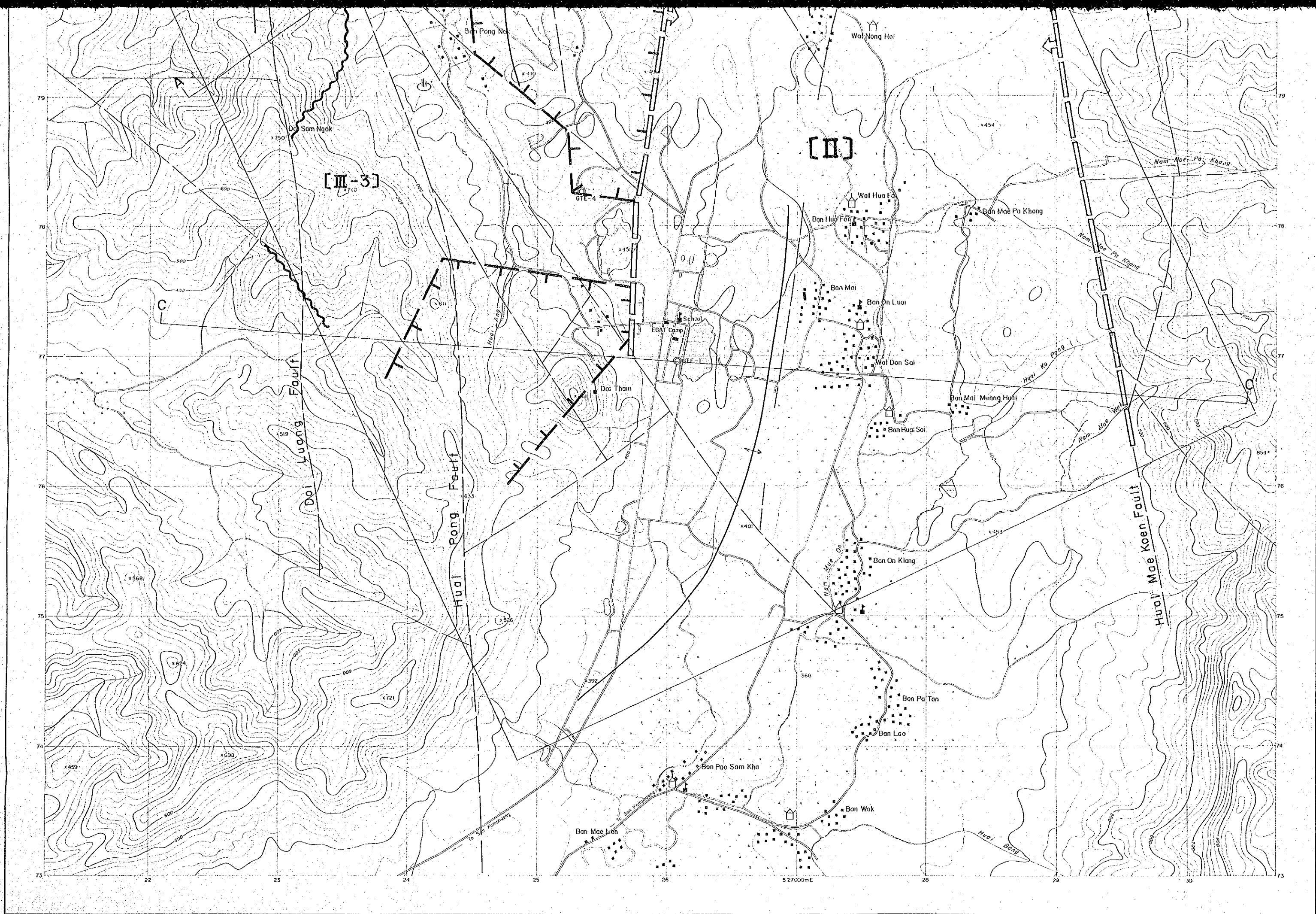
MARCH 1983

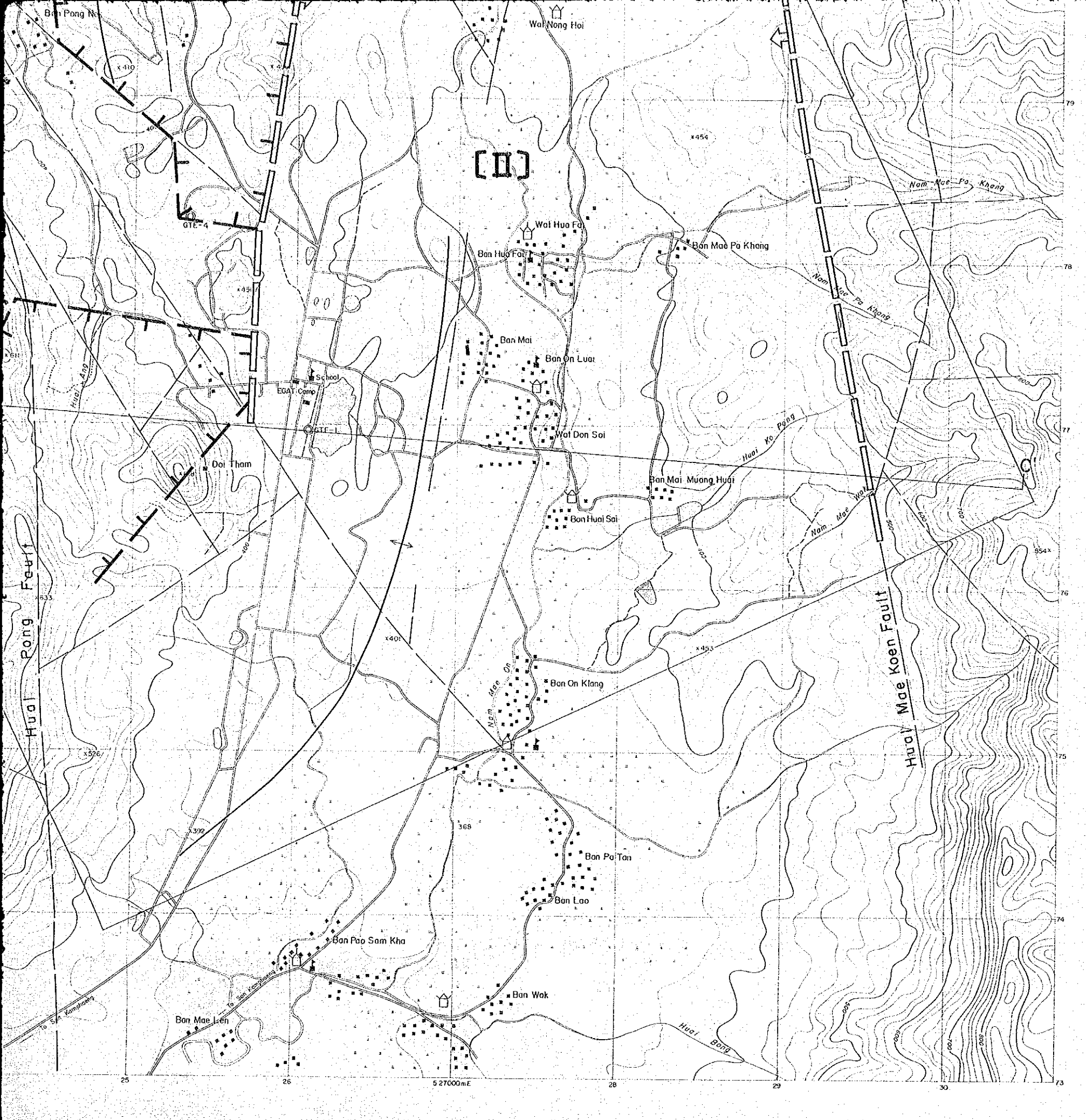


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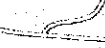
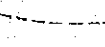
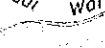
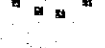
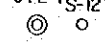

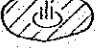



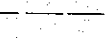
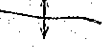
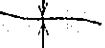
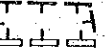




- | | | | |
|--|------------------|--|---------------------|
| | Confirmed road | | Wat |
| | Unconfirmed road | | School |
| | Stream | | Rice field |
| | Village | | Dam (water reserve) |







LEGEND

-  Confirmed road
-  Unconfirmed road
-  Stream
-  Village
-  Drill hole
-  Profile of underground structure
-  Geothermal manifestation
-  [III]-2 Block of gravity structure
-  Fault-like structure and dip direction
-  Density boundary
-  Main fault
-  Axis of high gravity
-  Axis of low gravity
-  Low residual gravity zone (third order polynomial)
-  Wat
-  School
-  Rice field
-  Dam (water reserve)