

## Figures



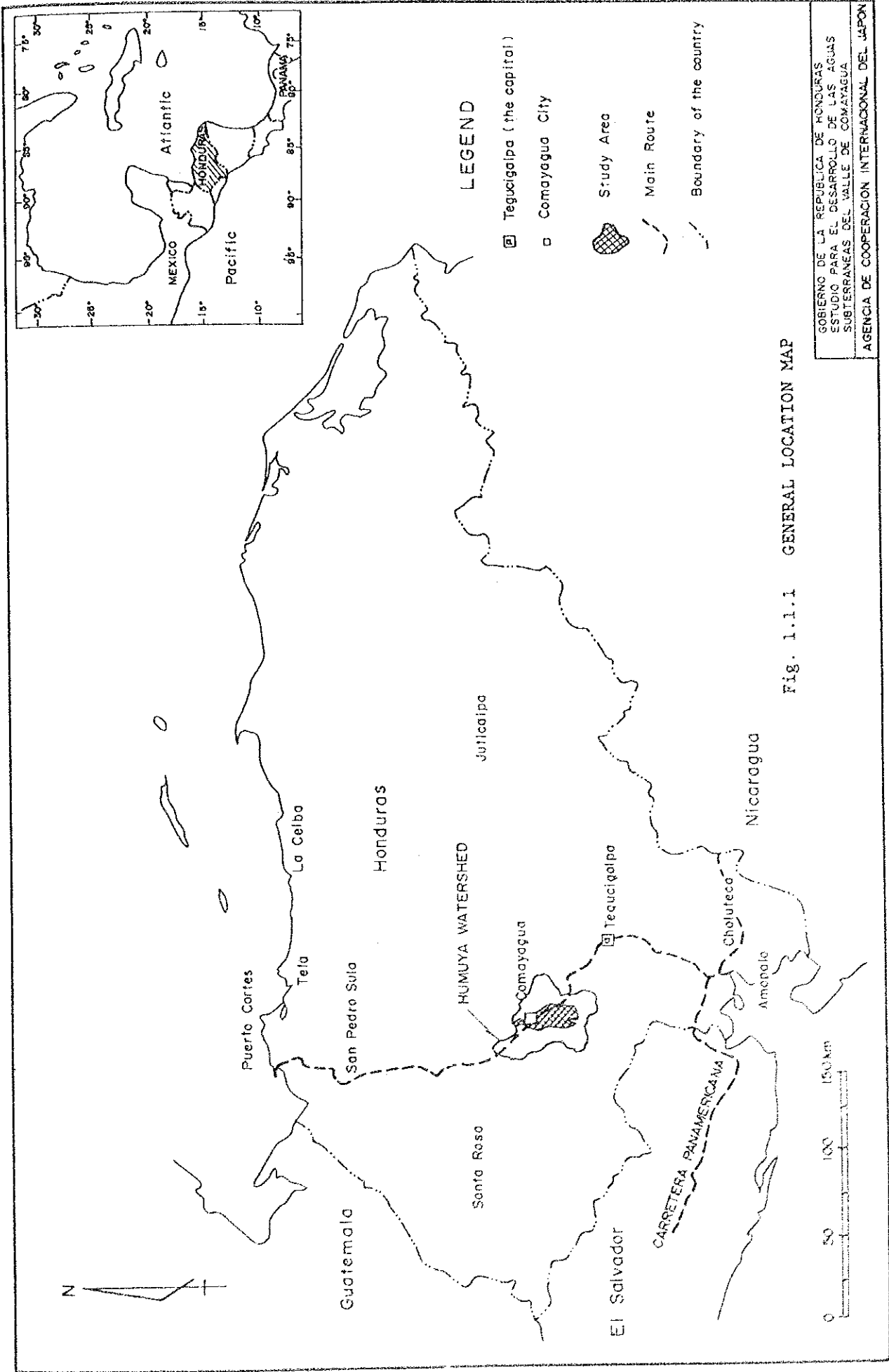


Fig. 1.1.1.1 GENERAL LOCATION MAP

Gobierno de la República de Honduras  
 Estudio para el desarrollo de las aguas  
 subterráneas del valle de Comayagua  
 Agencia de Cooperación Internacional del Japón



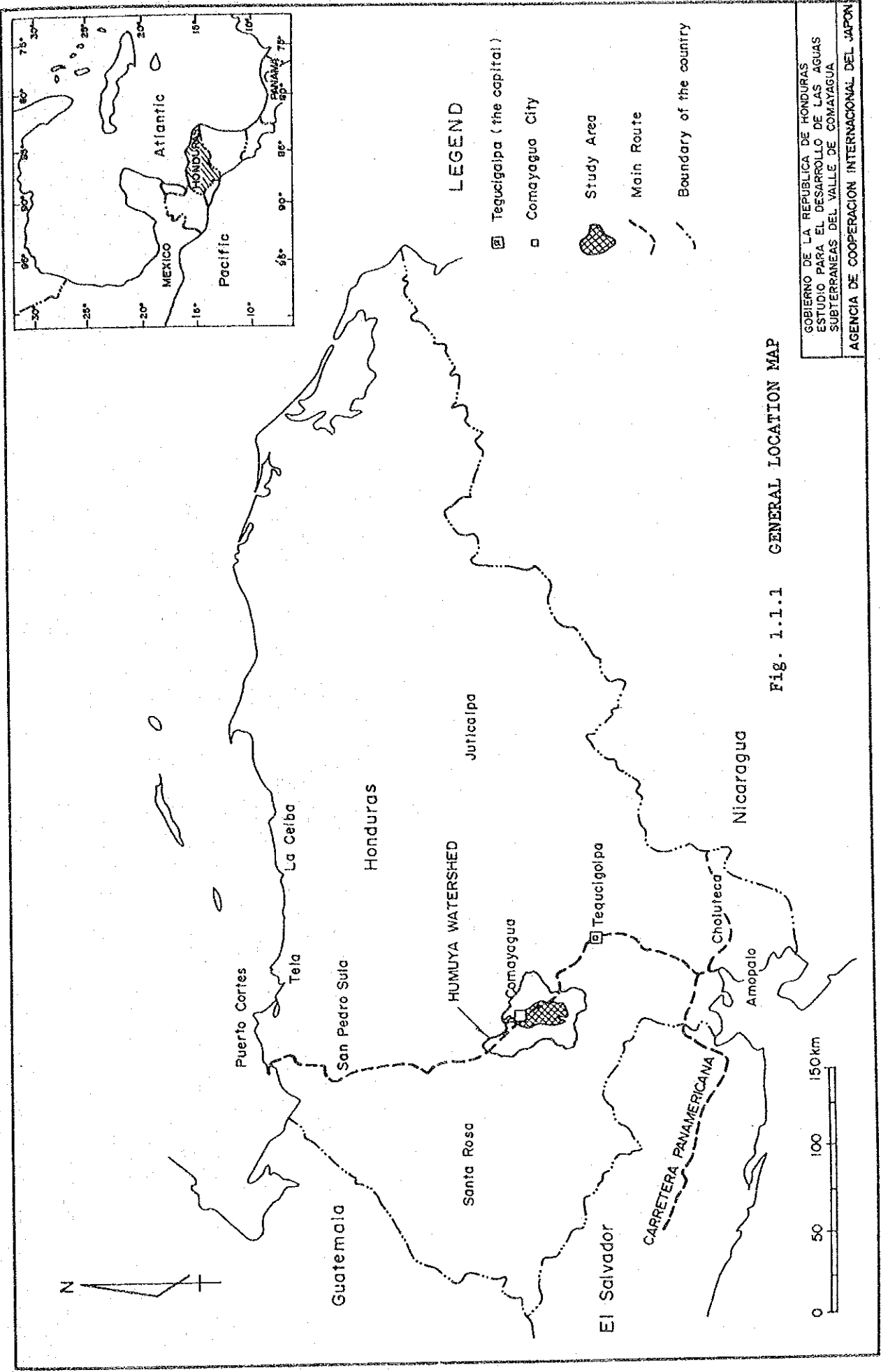


Fig. 1.1.1 GENERAL LOCATION MAP

GOBIERNO DE LA REPUBLICA DE HONDURAS  
 ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
 SUBTERRANEAS DEL VALLE DE COMAYAGUA  
 AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON

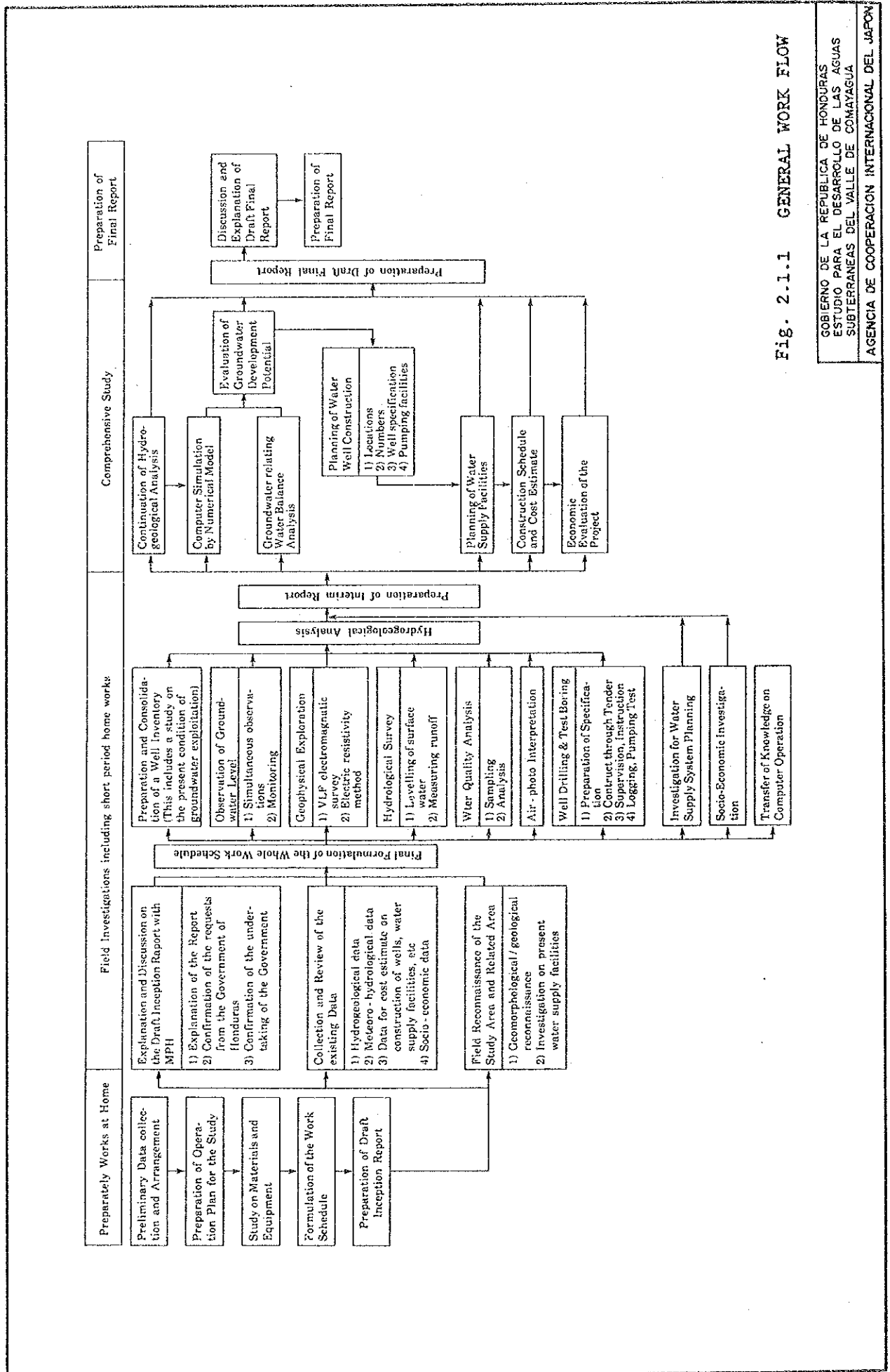
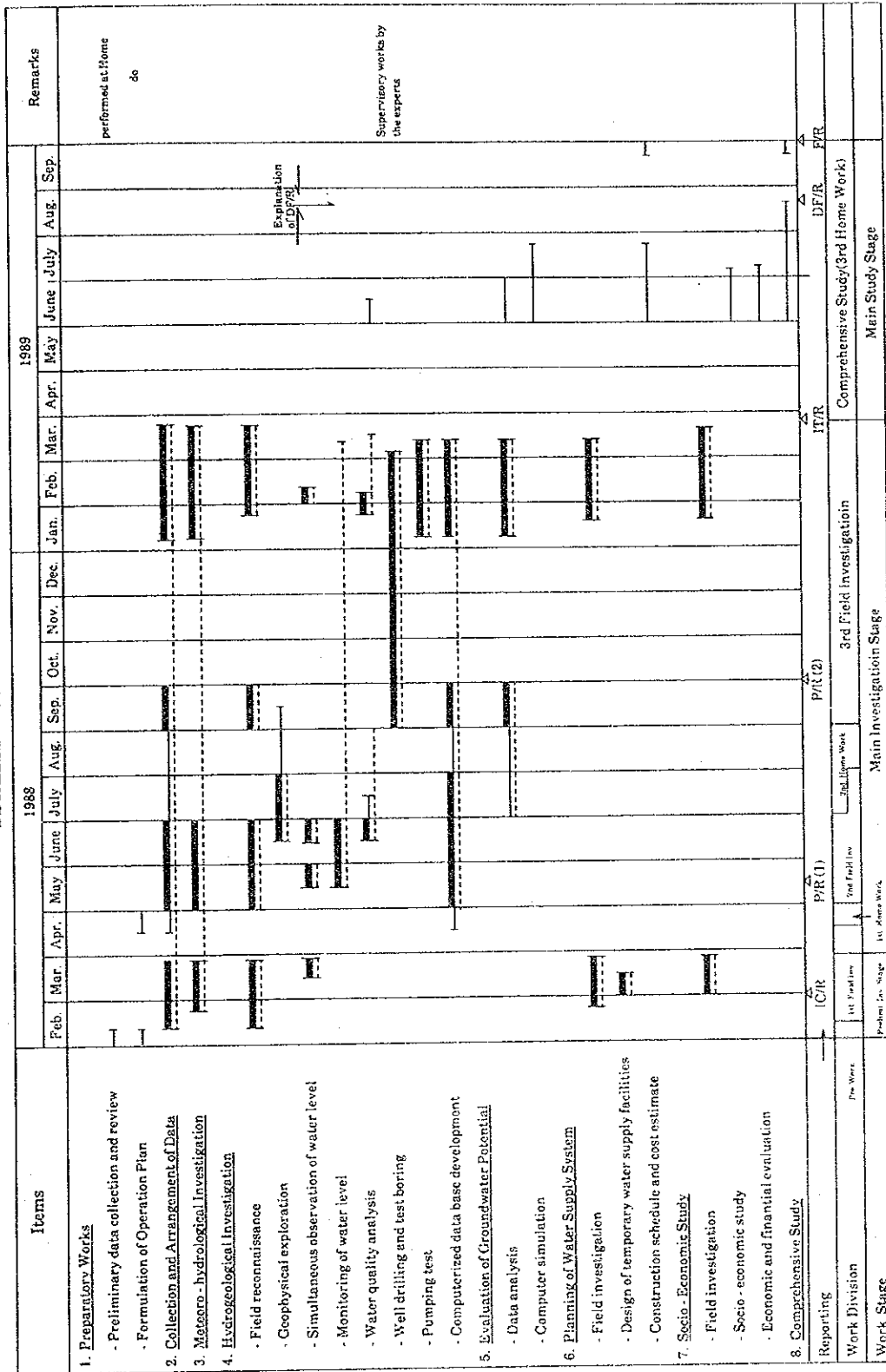


Fig. 2.1.1 GENERAL WORK FLOW

Gobierno de la República de Honduras  
 Estudio para el Desarrollo de las Aguas Subterráneas del Valle de Comayagua  
 Agencia de Cooperación Internacional del Japón

DETAILED WORK SCHEDULE



Note : Field Works to be performed by the JICA study team, Home Work of the JICA study team, Works to be executed and / or assisted by the MPH counterpart engineers  
 IC/R : Inception Report, P/R : Progress Report, ITR : Interim Report, DF/R : Draft Final Report, F/R : Final Report

Fig. 2.1.2 DETAILED WORK SCHEDULE

GOBIERNO DE LA REPUBLICA DE HONDURAS  
 ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
 SUBTERRANEAS DEL VALLE DE COMAYAGUA  
 AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON

ASSIGNMENT SCHEDULE

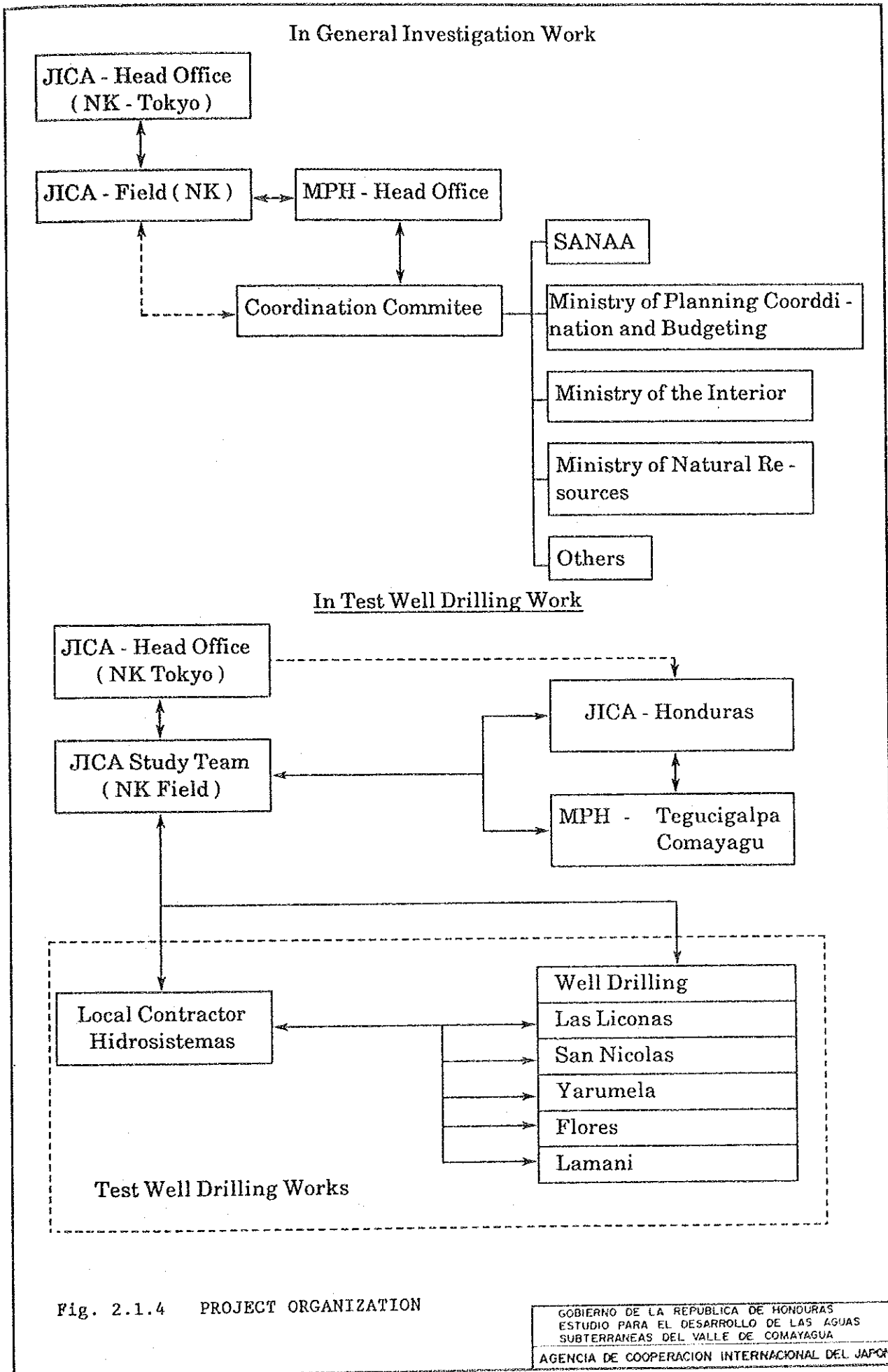
Position	Name	1988												1989											
		J	F	M	A	M	J	J	A	S	O	N	D	J	M	A	M	J	J	A	S	O	N	D	
Team Leader	N. Miyamoto	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█			
Hydrogeologist	M. Saito	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█			
Hydrologist/Computer Specialist	I. Tanabe	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█			
Geophysicist	T. Suzumura																								
Water quality specialist	Y. Koike																								
Boring expert	K. Obase																								
Water supply system engineer	S. Sasaki																								
Socio-economist	K. Oono																								
Reporting																									

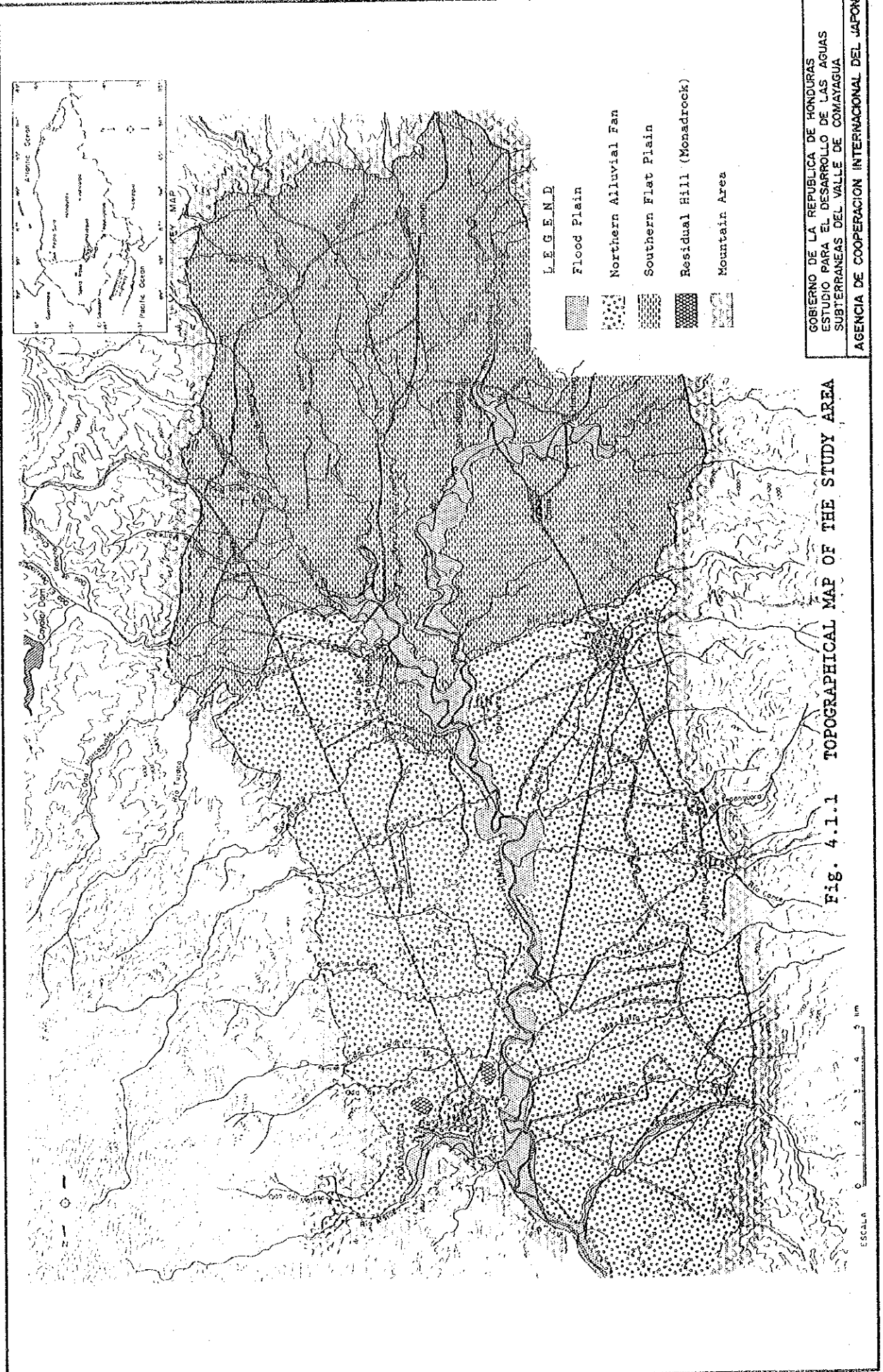
Note : █ Field work █ Home work

Fig. 2.1.3 ASSIGNMENT SCHEDULE

Gobierno de la Republica de Honduras  
 Estudio para el desarrollo de las aguas  
 subterranas del Valle de Comayagua  
 Agencia de Cooperacion Internacional del Japon







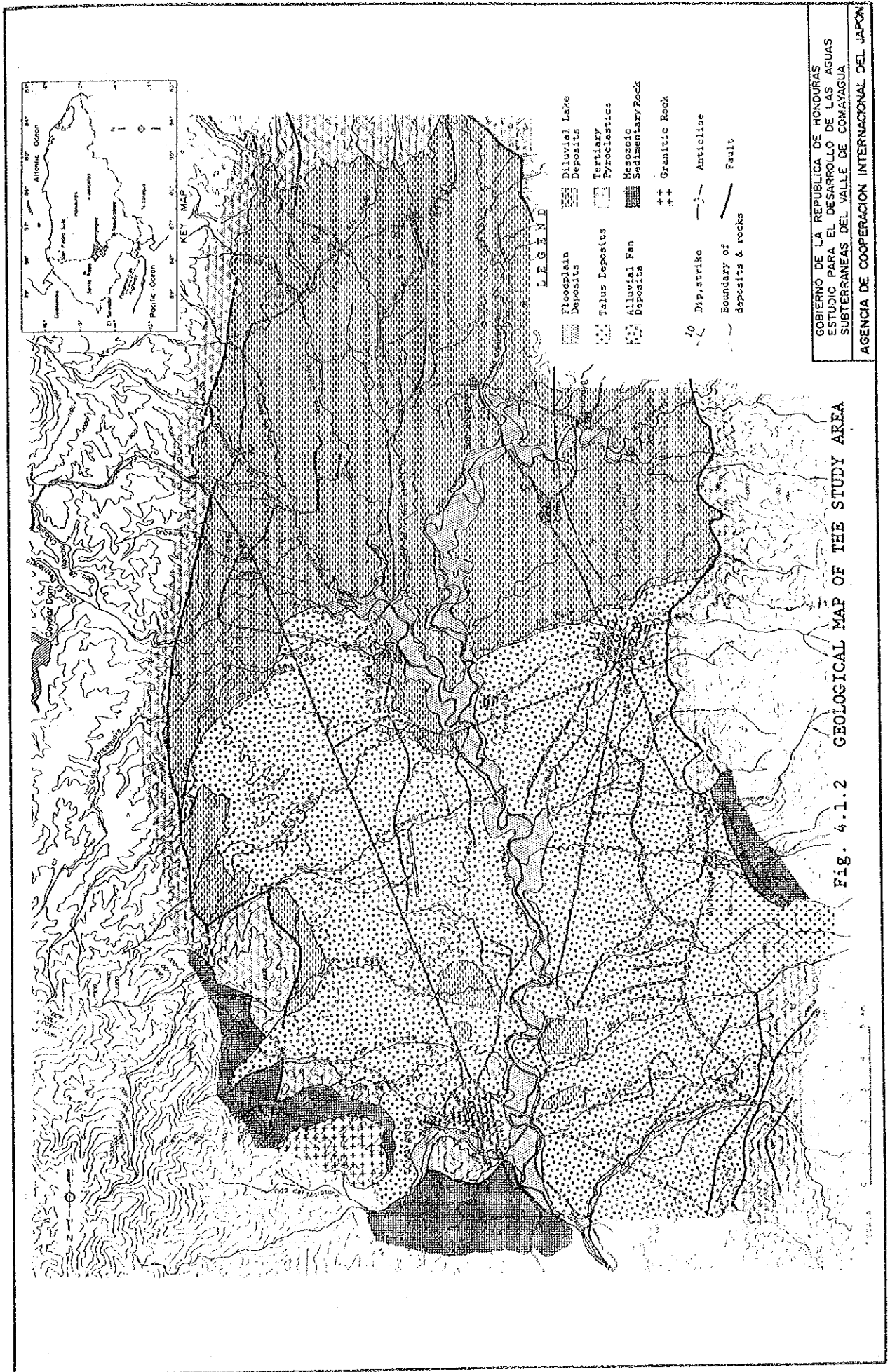
**L E G E N D**

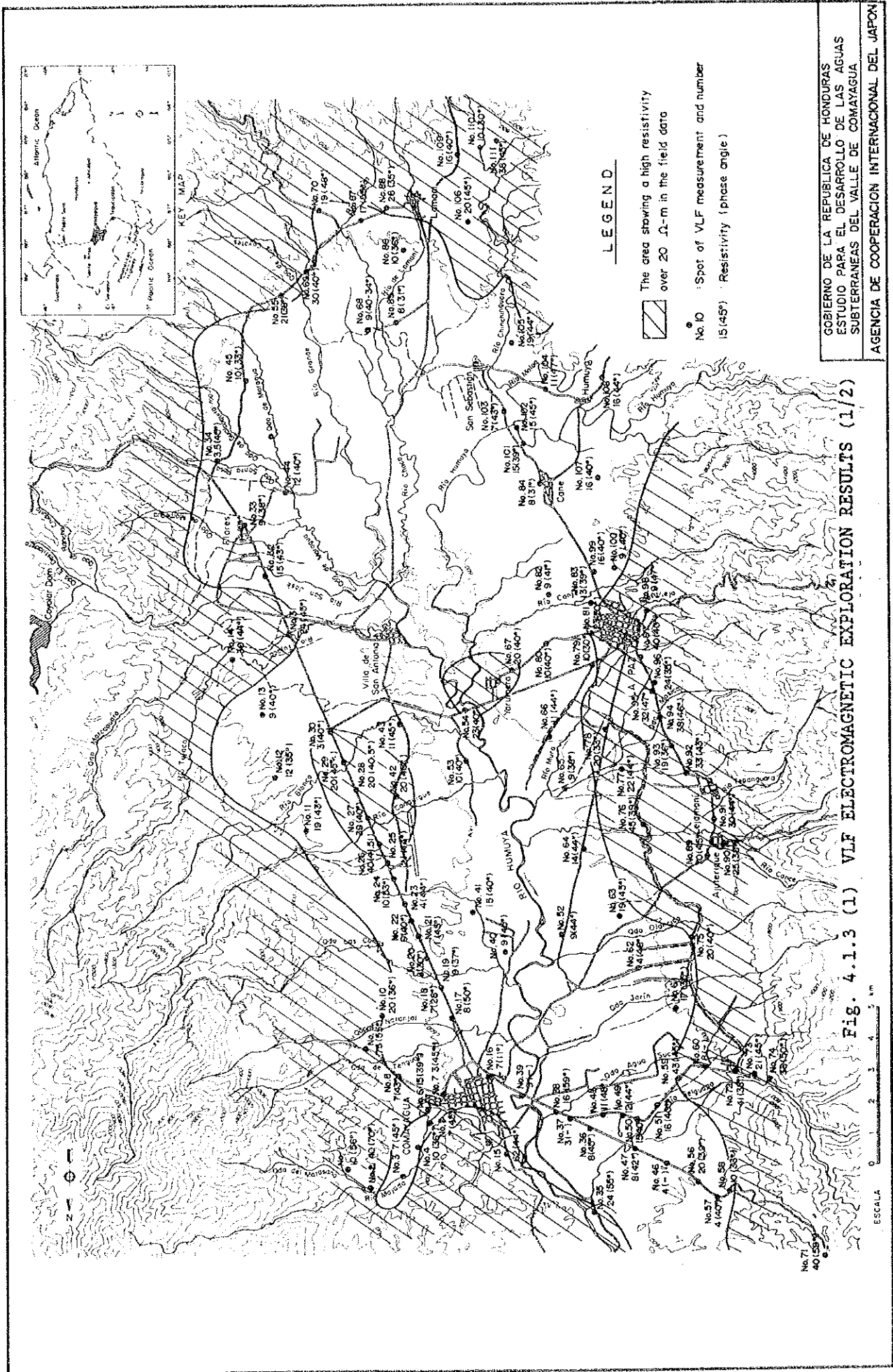
- Flood Plain
- Northern Alluvial Fan
- Southern Flat Plain
- Residual Hill (Monadnock)
- Mountain Area

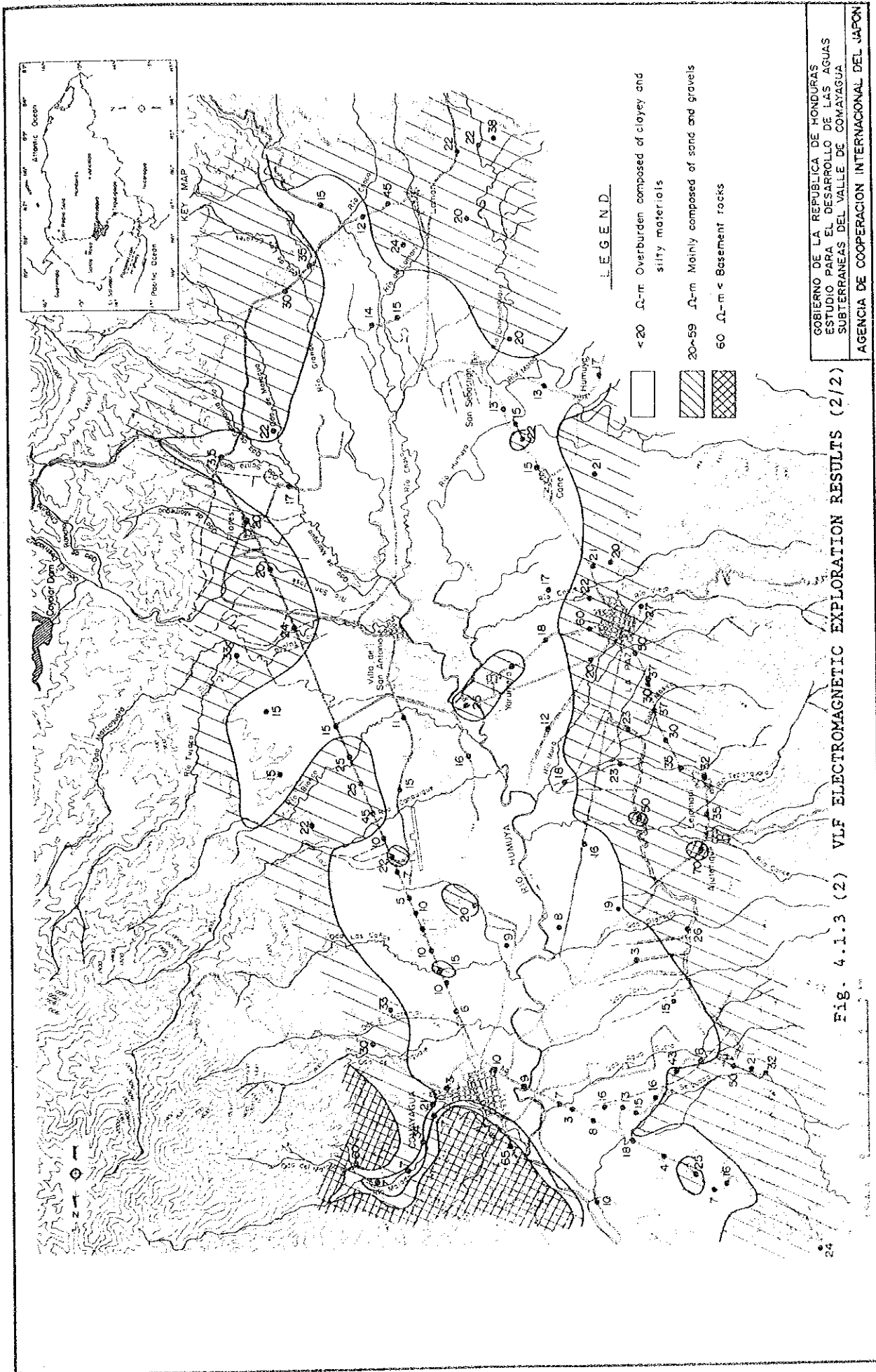
GOBIERNO DE LA REPUBLICA DE HONDURAS  
 ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
 SUBTERRANEAS DEL VALLE DE COMAYAGUA  
 AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON

FIG. 4.1.1 TOPOGRAPHICAL MAP OF THE STUDY AREA

ESCALA 6 2 4 6 8 km







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 SUBTERRANEAS DEL VALLE DE COMAYAGUA  
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Fig. 4.1.3 (2) VLF ELECTROMAGNETIC EXPLORATION RESULTS (2/2)

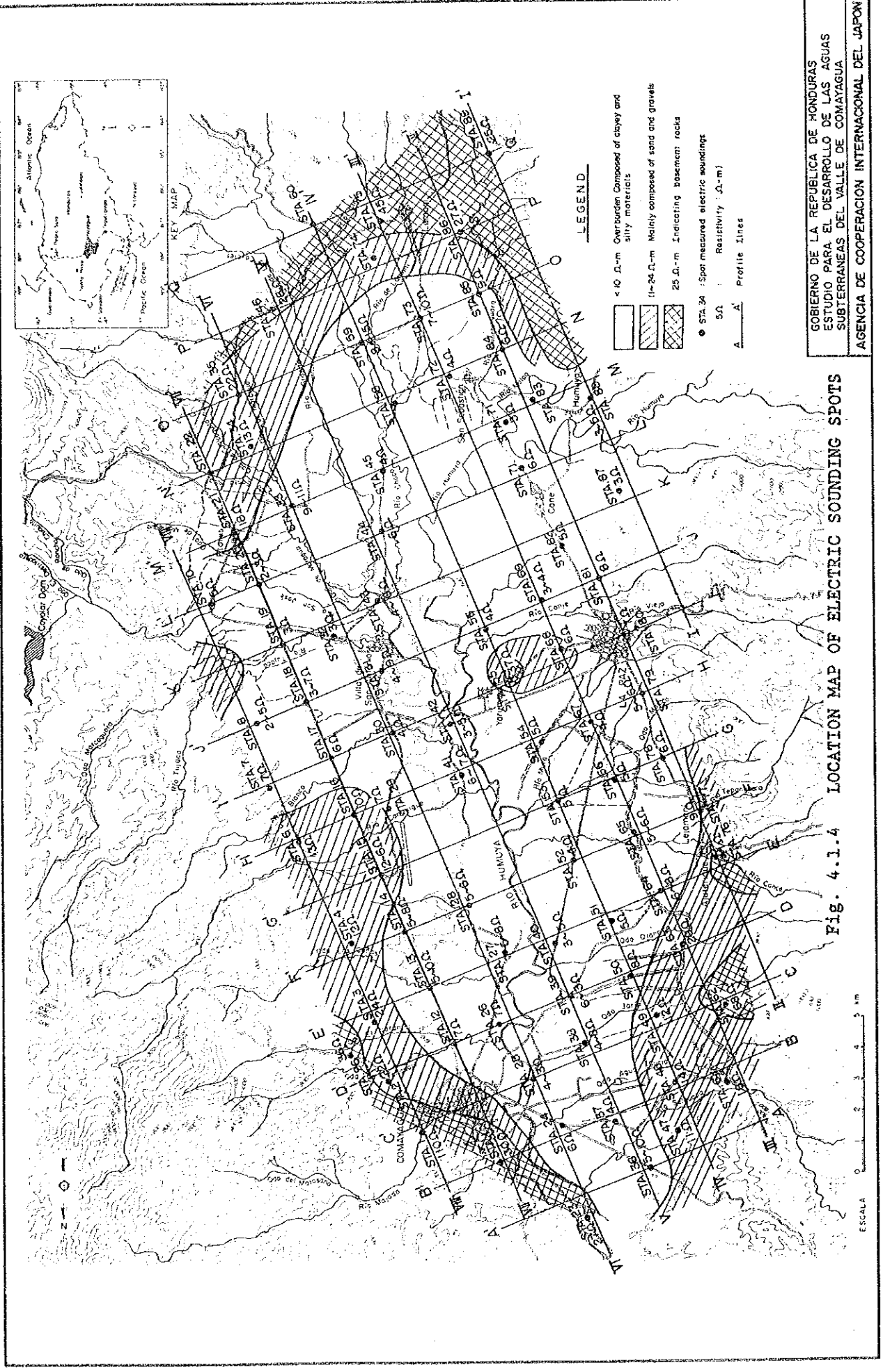


Fig. 4.1.4 LOCATION MAP OF ELECTRIC SOUNDING SPOTS

GOBIERNO DE LA REPUBLICA DE HONDURAS  
 ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
 SUBTERRANEAS DEL VALLE DE COMAYAGUA  
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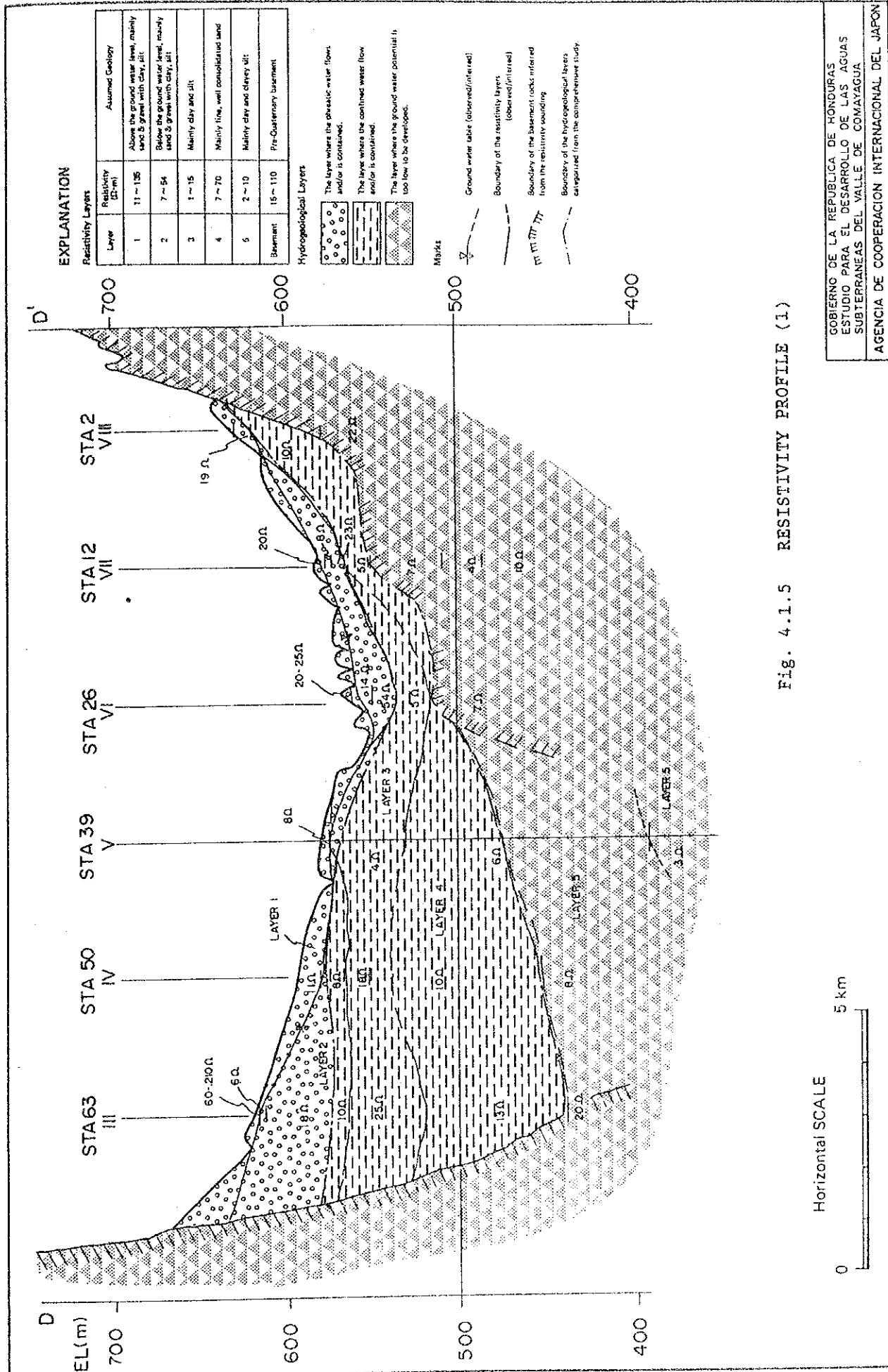


Fig. 4.1.5 RESISTIVITY PROFILE (1)

GOBIERNO DE LA REPUBLICA DE HONDURAS  
 ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
 SUBTERRANEAS DEL VALLE DE COMAYAGUA  
 AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON







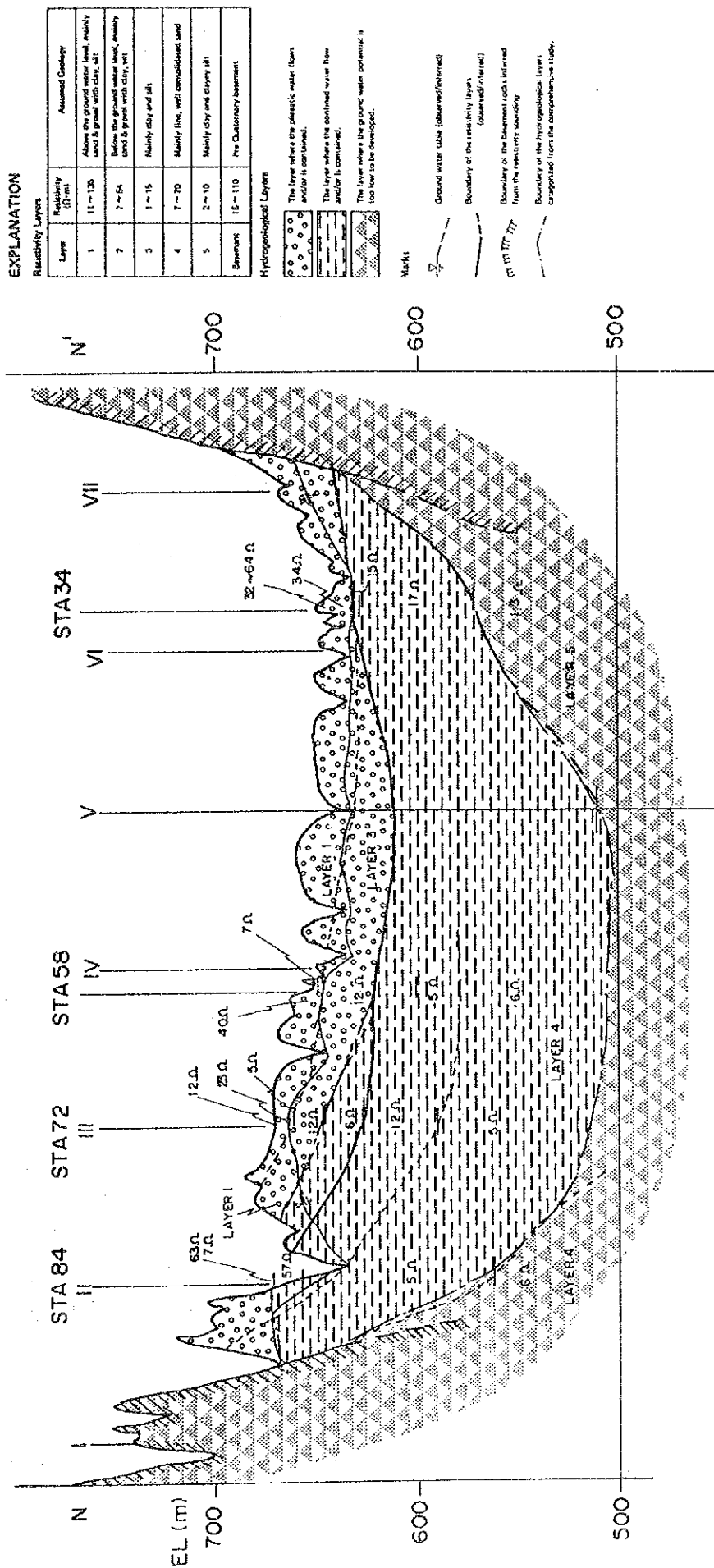
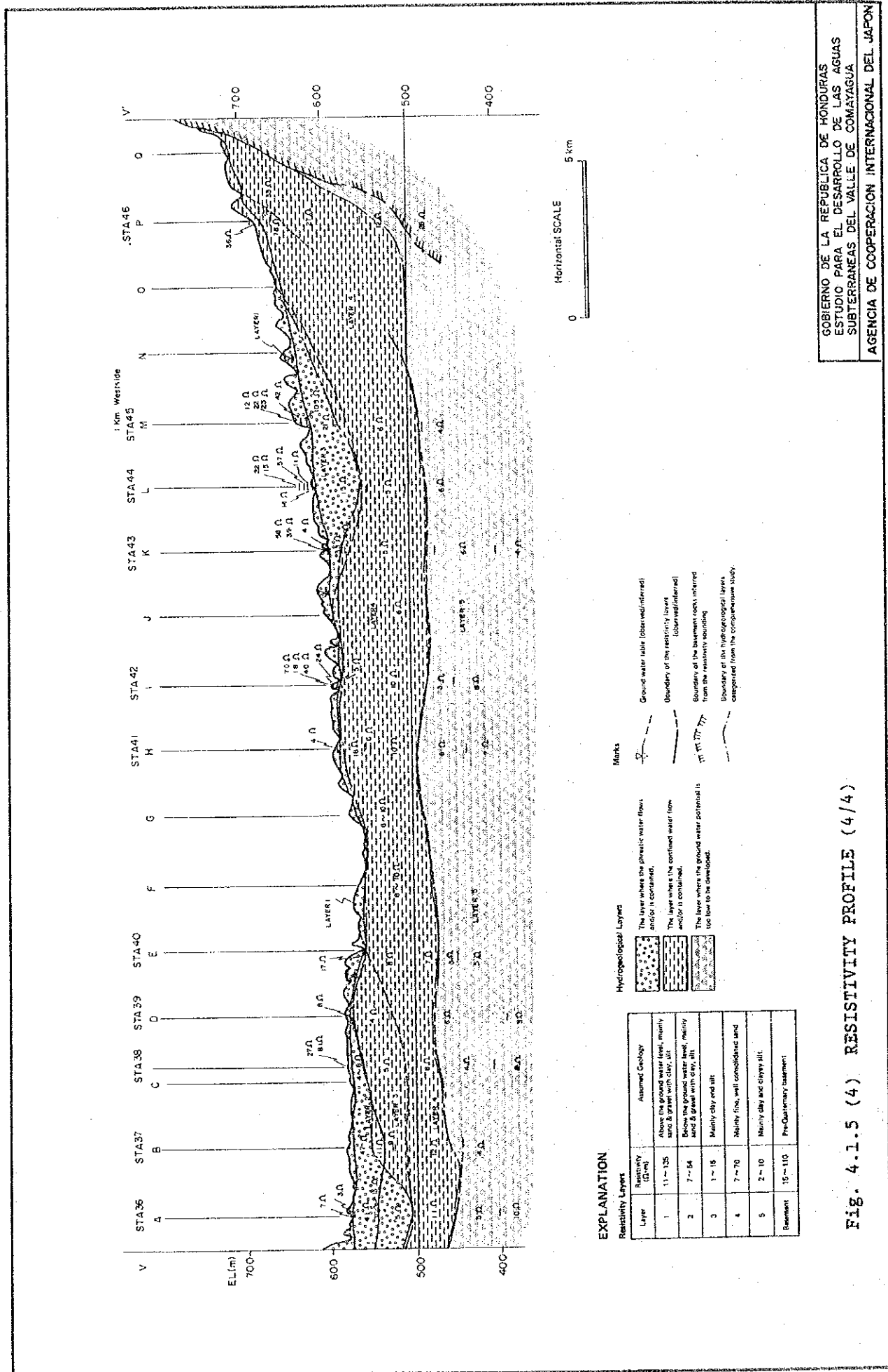


Fig. 4.1.5 RESISTIVITY PROFILE (3)

GOBIERNO DE LA REPUBLICA DE HONDURAS  
 ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
 SUBTERRANEAS DEL VALLE DE COMAYAGUA  
 AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON



**EXPLANATION**

Layer	Resistivity (Ω·m)	Assumed Geology
1	11 ~ 15	Above the ground water level, mainly sand & gravel with clay silt
2	7 ~ 14	Below the ground water level, mainly sand & gravel with clay silt
3	1 ~ 15	Mainly clay and silt
4	7 ~ 70	Mainly fine, well consolidated sand
5	2 ~ 10	Mainly clay and clayey silt
Basement	15 ~ 110	Pre-Quaternary basement

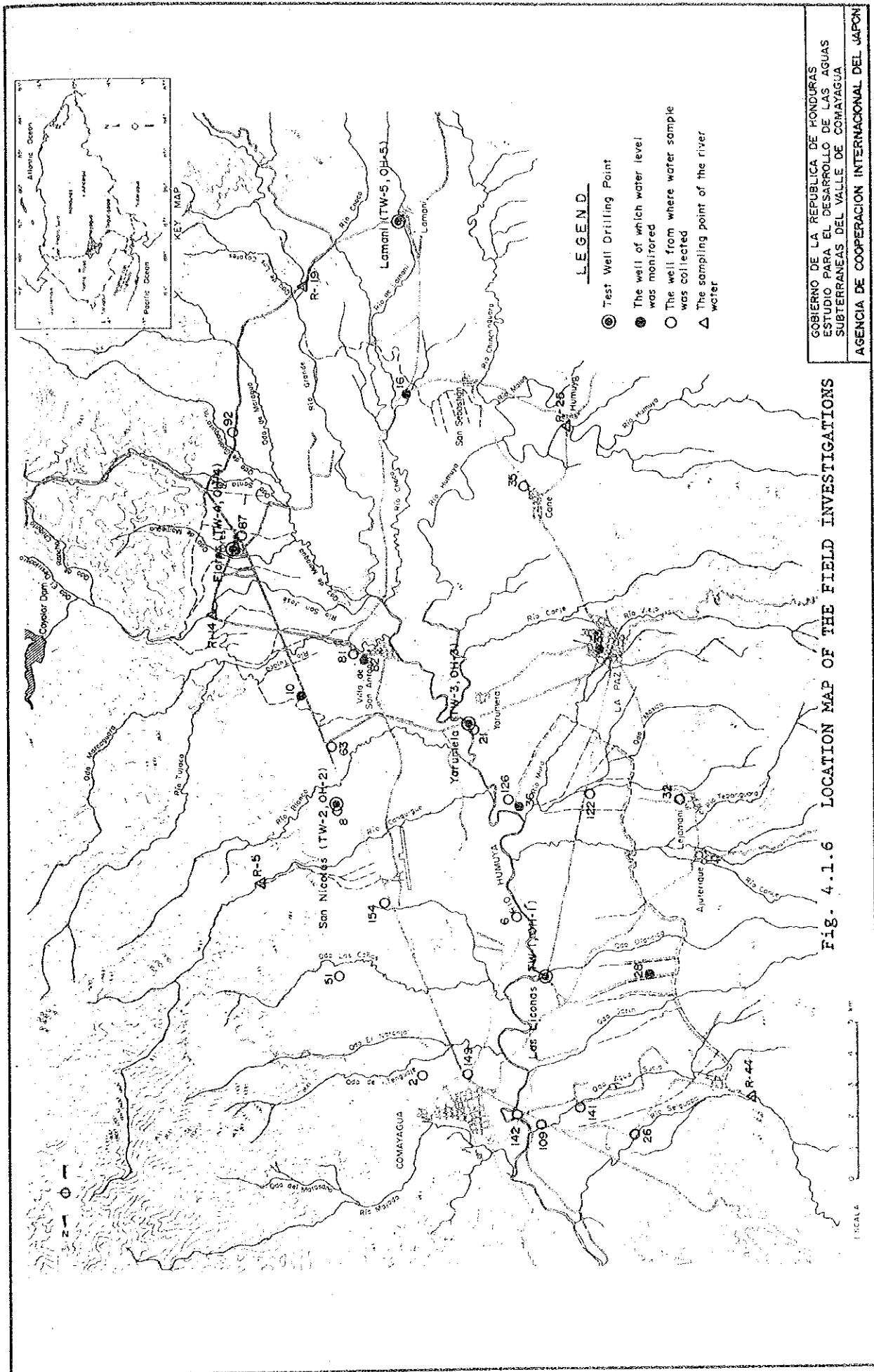
**Hydrogeological Layers**

- The layer where the ground water flows and/or is contained.
- The layer where the confined water flow and/or is contained.
- The layer where the ground water potential is not free to be dissipated.

**Marks**

- Ground water table (observed/inferred)
- Boundary of the resistivity layer (observed/inferred)
- Boundary of the basement rocks inferred from the resistivity sounding
- Boundary of the hydrogeological layers categorized from the comprehensive study.

**Fig. 4.1.5 (4) RESISTIVITY PROFILE (4/4)**



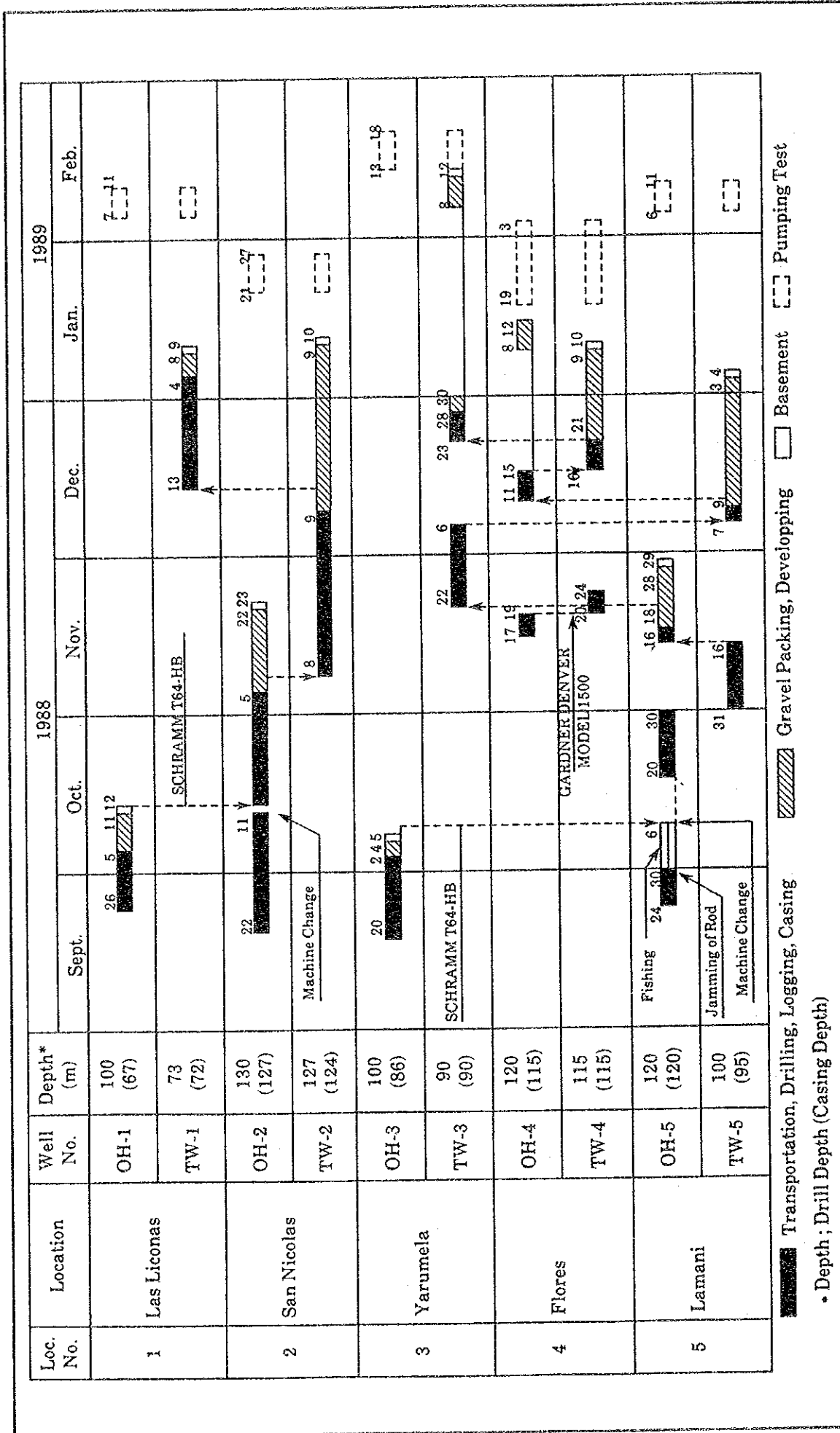
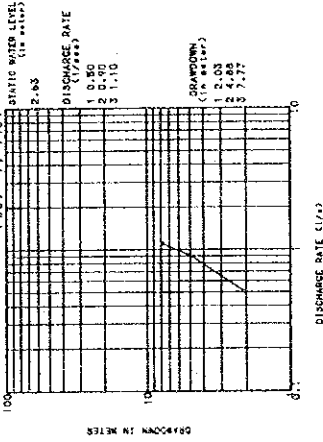


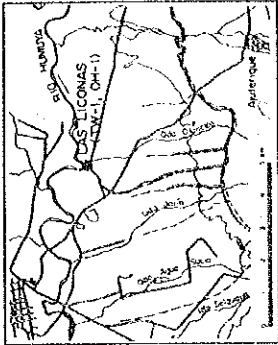
Fig. 4.1.7 WORK SCHEDULE OF THE TEST WELL DRILLING

Gobierno de la Republica de Honduras  
 Estudio para el desarrollo de las aguas subterranas del Valle de Comayagua  
 Agencia de Cooperación Internacional del Japon

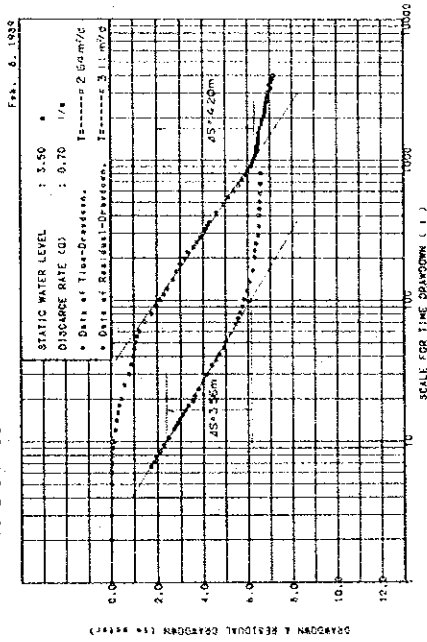
**STEP DRAWDOWN TEST**  
Feb. 7, 1969



**LOCATION MAP**



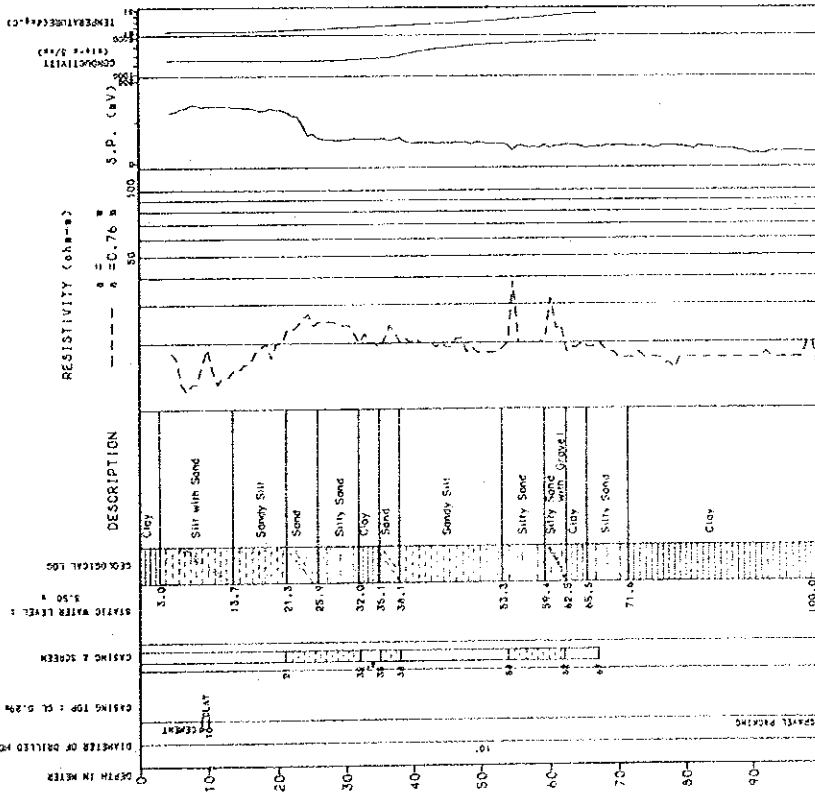
**TIME DRAWDOWN GRAPH & RESIDUAL DRAWDOWN GRAPH**  
Feb. 6, 1969



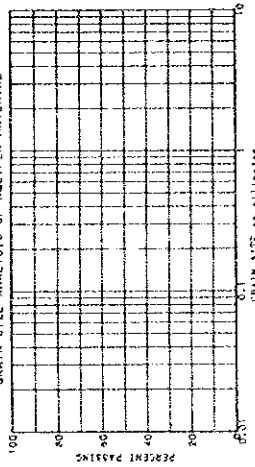
**WATER QUALITY**

Temperature	1
Conductivity	1
pH	8.0
LABORATORY TEST	
TDS	10.3
PERCENTAGE	
Ca	14
Mg	1
Cl	304
HCO <sub>3</sub>	603
Fa	16

CONCENTRATIONS ARE EXPRESSED IN P.P.M.



**GRAIN SIZE ANALYSIS OF AQUIFER MATERIAL**



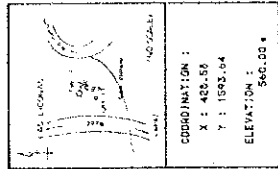
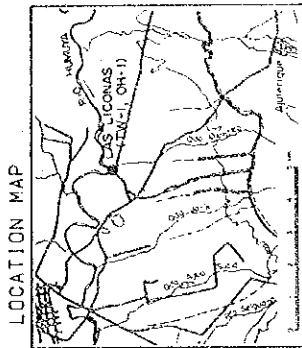
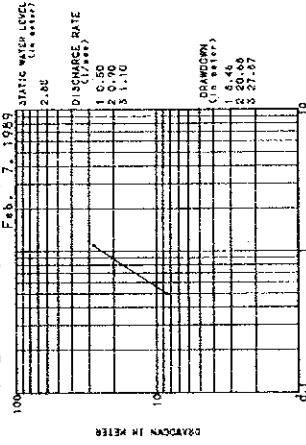
**LEGEND**

- Gravel
  - Sand
  - Silt
  - Clay
  - Silty Sand
  - Sandy Silt
  - Sandy Clay
  - with Gravel
  - with Sand
  - with Silt
  - with Clay
- DRILLING STARTED ON 3-9-69  
 COMPLETED ON Oct. 12, 1969  
 DRILLING MACHINE SUREMATIC

**Fig. 4.1.8 (1) WELL DRILLING RESULT (1/10)**  
 - Las Liconas OH-01 -

GOBIERNO DE LA REPUBLICA DE HONDURAS  
 ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
 SUBTERRANEAS DEL VALLE DE COMAYAGUA  
 AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON

**STEP DRAWDOWN TEST**  
Feb. 7, 1969

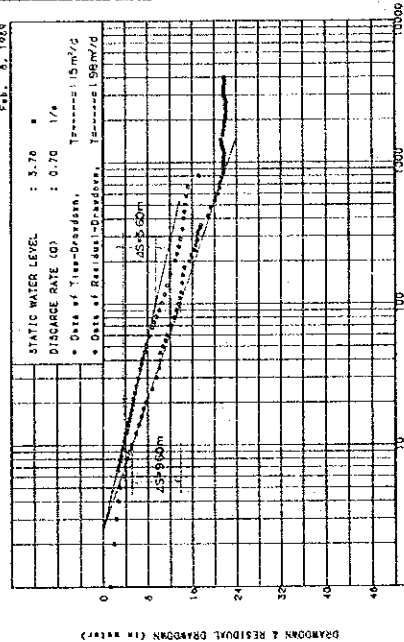


**WATER QUALITY**

IN-SITU TEST	Temperature: 30.5
EC (micro/mho/cm)	1900
PH	8.1
LABORATORY TEST	
TDS	1900
Hardness	1900
Ca	45.0
Mg	19.0
Na	290.0
K	0.5
Cl	44.0
SO4	304.0
HCO3	0.0
Fe	0.0
Mn	0.0
Cu	0.0

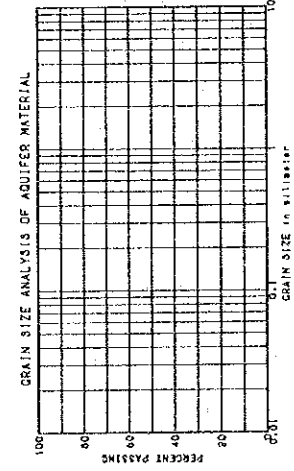
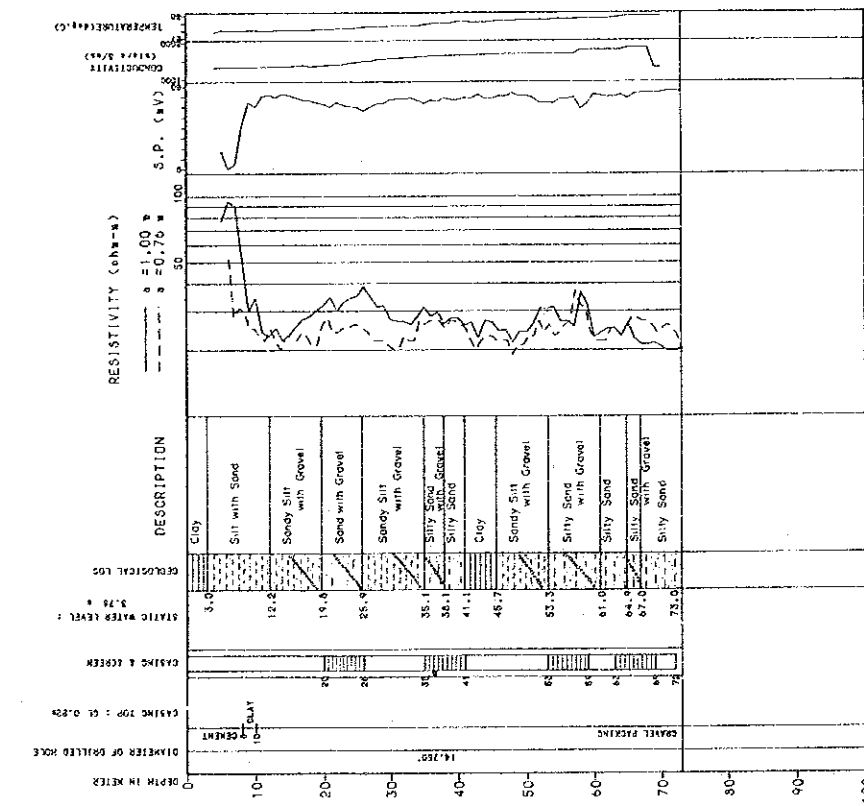
CONCENTRATION ARE EXPRESSED IN P.P.T.

**TIME DRAWDOWN GRAPH & RESIDUAL DRAWDOWN GRAPH**  
Feb. 9, 1969



SCALE FOR TIME DRAWDOWN (1:1)  
SCALE FOR RESIDUAL DRAWDOWN (1:1)

1:1 Time in minutes since pump started  
1:1 Time in minutes since pump stopped



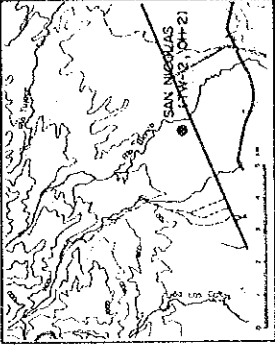
**LEGEND**

- Gravel
- Sand
- Silt
- Clay
- Silty Sand
- Sandy Silt
- Sandy Clay
- with Gravel
- with Sand
- with Silt
- with Clay

**Fig. 4.1.8 (2) WELL DRILLING RESULT (2/10) - Las Licotas TW-01 -**

GOBIERNO DE LA REPUBLICA DE HONDURAS  
ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
SUBTERRANEAS DEL VALLE DE COMAYAGUA  
AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON

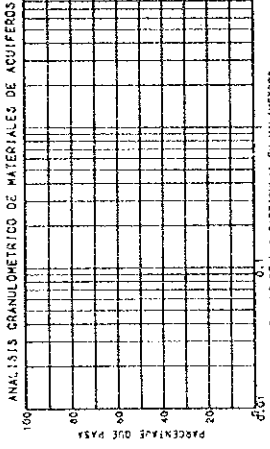
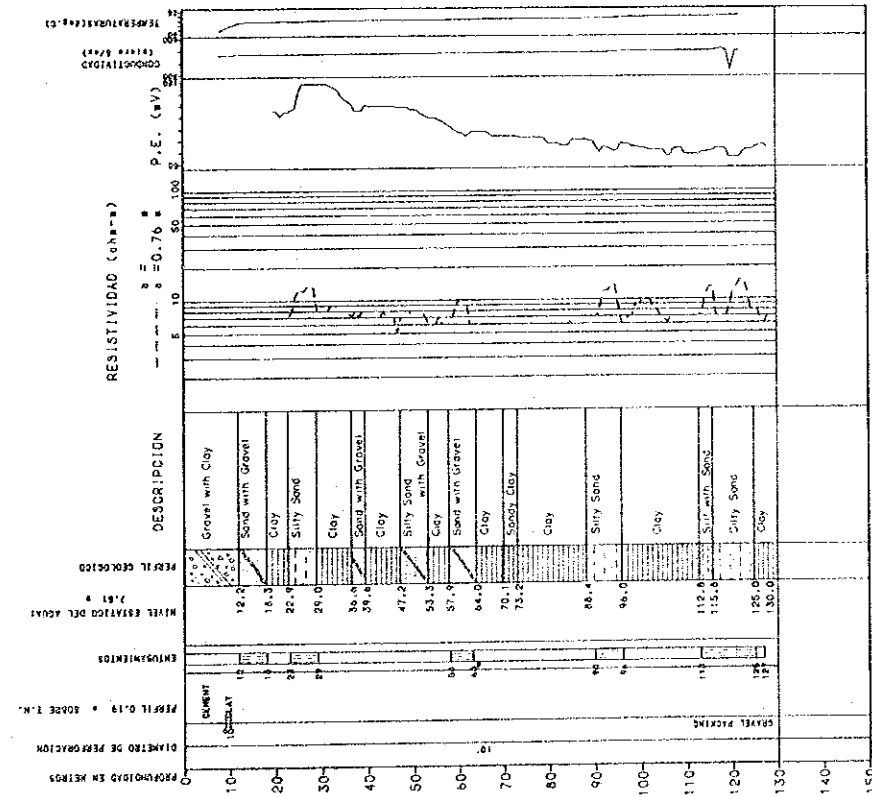
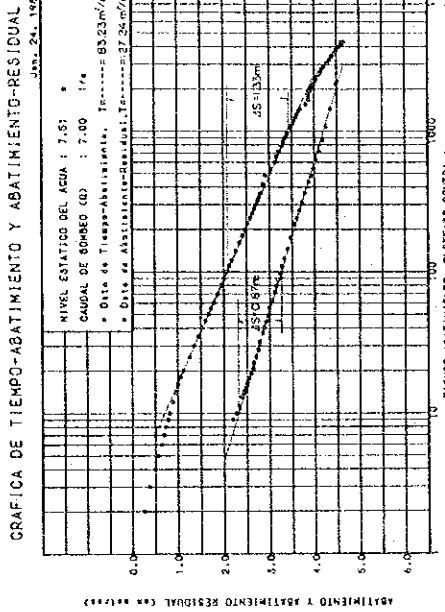
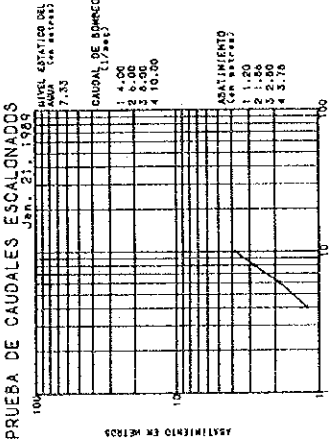
MAPA DE LOCALIZACION



COORDINADAS:  
 X : 435.55  
 Y : 1588.18  
 ELEVACION : 800.00 m

CALIDAD DEL AGUA

ANALISIS EN EL CAMPO		ANALISIS EN LABORATORIO	
Temperatura	24	PH	7.51
EC (cmhos/cm)	304	Ca	0.00
PH	7.51	Mg	0.00
		Fe	0.00



LEYENDA

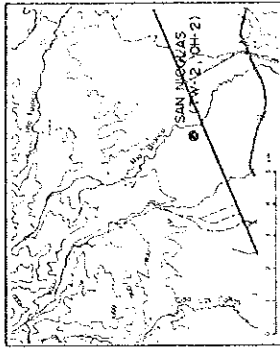
PERFIL GEOLÓGICO	DESCRIPCION
[Symbol]	Sandy Clay
[Symbol]	Clay
[Symbol]	Sand
[Symbol]	Silt
[Symbol]	Clay
[Symbol]	Silty Sand
[Symbol]	Sandy Silt

LA PERFORACION SE INICIO EL: Sep. 27, 1968  
 SE COMPLETO EL: Sep. 23, 1968  
 MAQUINA DE PERFORACION: SCHRAMM T-4-HB

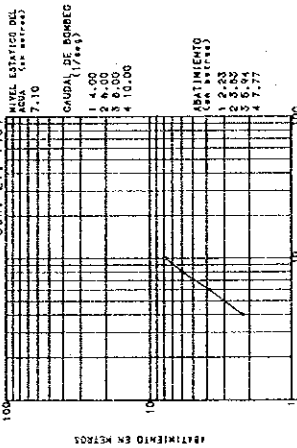
Fig. 4.1.8 (3) WELL DRILLING RESULT (3/10) - San Nicolas OH-02 -

GOBIERNO DE LA REPUBLICA DE HONDURAS  
 ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
 SUBTERRANEAS DEL VALLE DE COMATAGUA  
 AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON

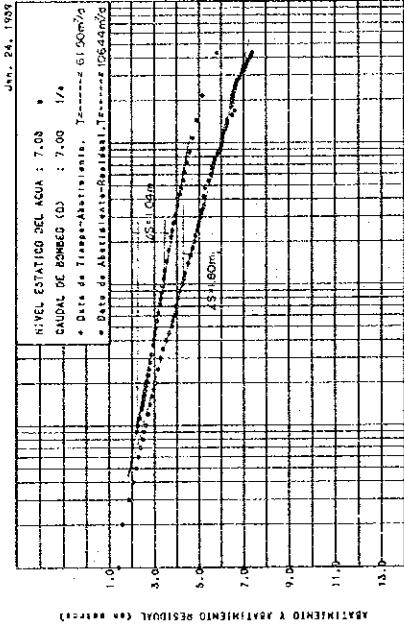
MAPA DE LOCALIZACION



PRUEBA DE CAUDALES ESCALONADOS



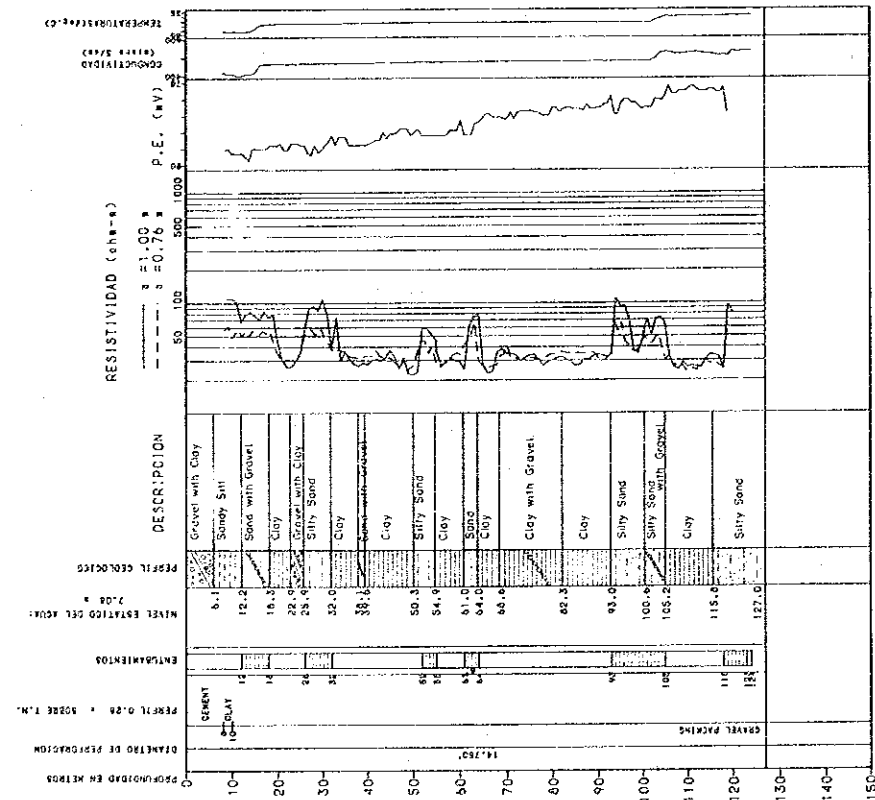
GRAFICA DE TIEMPO-ABATIMIENTO Y ABATIMIENTO-RESIDUAL



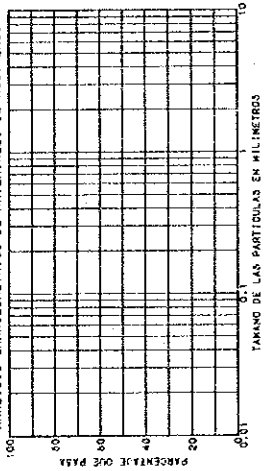
CALIDAD DEL AGUA

ANALISIS EN EL CAMPO	
Temp. (C)	30.0
EC. (microhm/cm)	400
pH	7.30
ANALISIS EN LABORATORIO	
T.S.O.	1.00
Grasas	174.0
Ca	99.3
Mg	6.1
Mn	13.0
K	3.4
Cl	3.3
SO <sub>4</sub>	304.20
HCO <sub>3</sub>	000
Fe	00

LAS OBTENCIONES ESTAN EXPRESADAS EN mg/l.



ANALISIS GRANULOMETRICO DE MATERIALES DE ACUFEROS



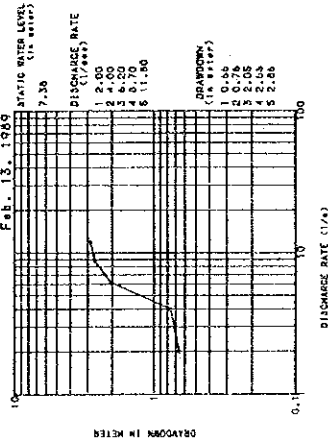
- LEYENDA
- Sandy Clay
  - Clay
  - Sand
  - Silt
  - Clay
  - Silty Sand
  - Sandy Silt
  - LA PERFORACION SE INICIO EL: Nov. 01, 1990
  - SE COMPLETO EL: Jan. 10, 1999
  - MAQUINA DE PERFORACION: SCHRAMK TGA-10

Fig. 4.1.8 (4) WELL DRILLING RESULT (4/10) - San Nicolas TW-02 -

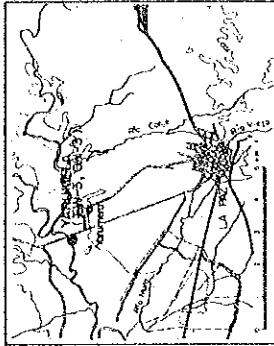
GOBIERNO DE LA REPUBLICA DE HONDURAS  
 ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
 SUBTERRANEAS DEL VALLE DE COMAYAGUA  
 AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON



**STEP DRAWDOWN TEST**  
Feb. 13, 1969



**LOCATION MAP**

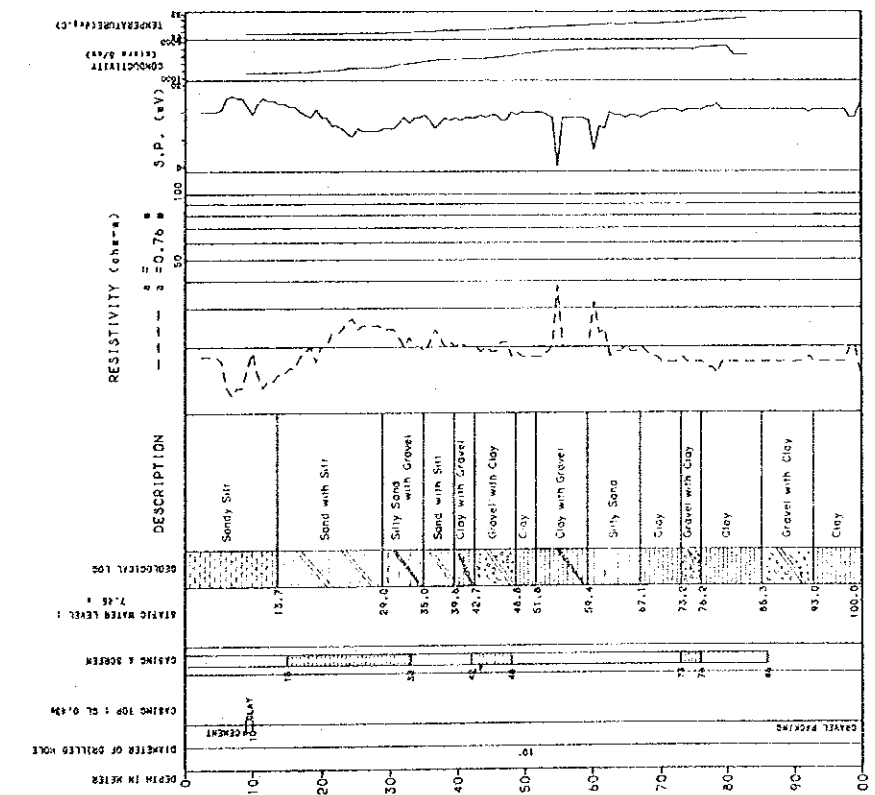
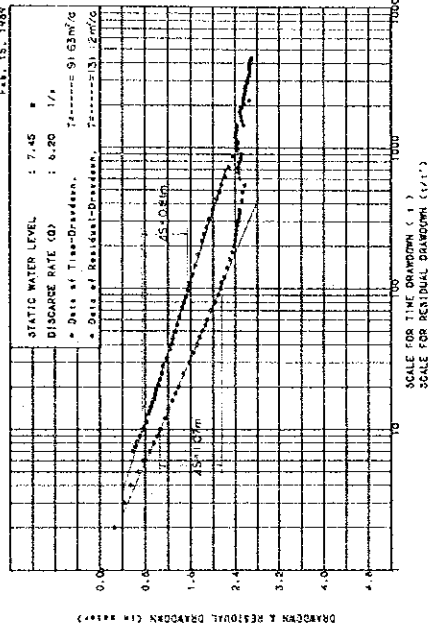


COORDINATION:  
X : 430.94  
Y : 1586.56  
ELEVATION : 585.00 m

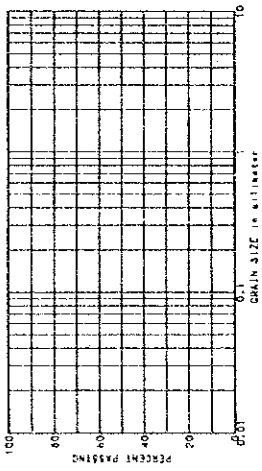
**WATER QUALITY**

TEMPERATURE	PH
TURBIDITY	CO <sub>2</sub>
TOTAL SOLIDS	CaCO <sub>3</sub>
CHLORIDE	NO <sub>3</sub>
SULFATE	Fe
AMMONIA	Mn
COPPER	Zn
CADMIUM	Pb
COBALT	Cd
CHROMIUM	As
SELENIUM	Hg
ANTHRACENE	PCB
PHENOL	TOXIC
OTHER	

**TIME DRAWDOWN GRAPH & RESIDUAL DRAWDOWN GRAPH**  
Feb. 13, 1969



**GRAIN SIZE ANALYSIS OF AQUIFER MATERIAL**



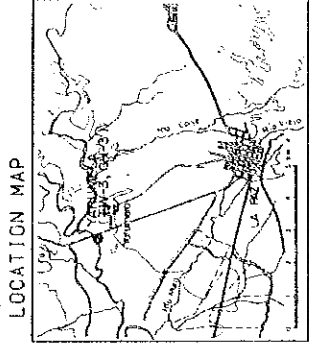
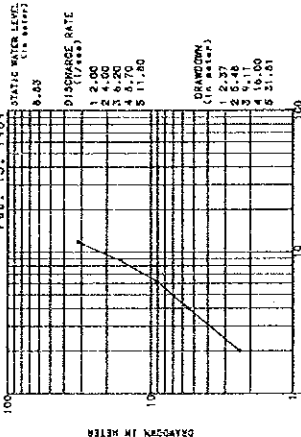
**LEGEND**

- Gravel
- Sand
- Silt
- Clay
- Silty Sand
- Shaly Clay
- with Gravel
- with Silt
- with Clay

**Fig. 4.1.8 (5) WELL DRILLING RESULT (5/10)**  
- Yarumela OH-03 -

GOBIERNO DE LA REPUBLICA DE HONDURAS  
ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
SUBTERRANEAS DEL VALLE DE COMAYAGUA  
AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON

**STEP DRAWDOWN TEST**  
Feb. 13, 1984

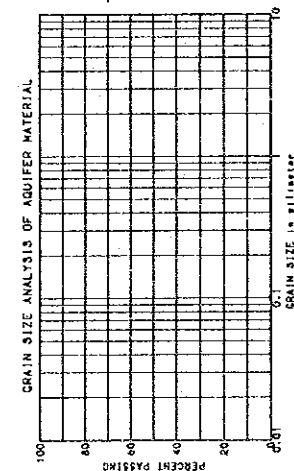
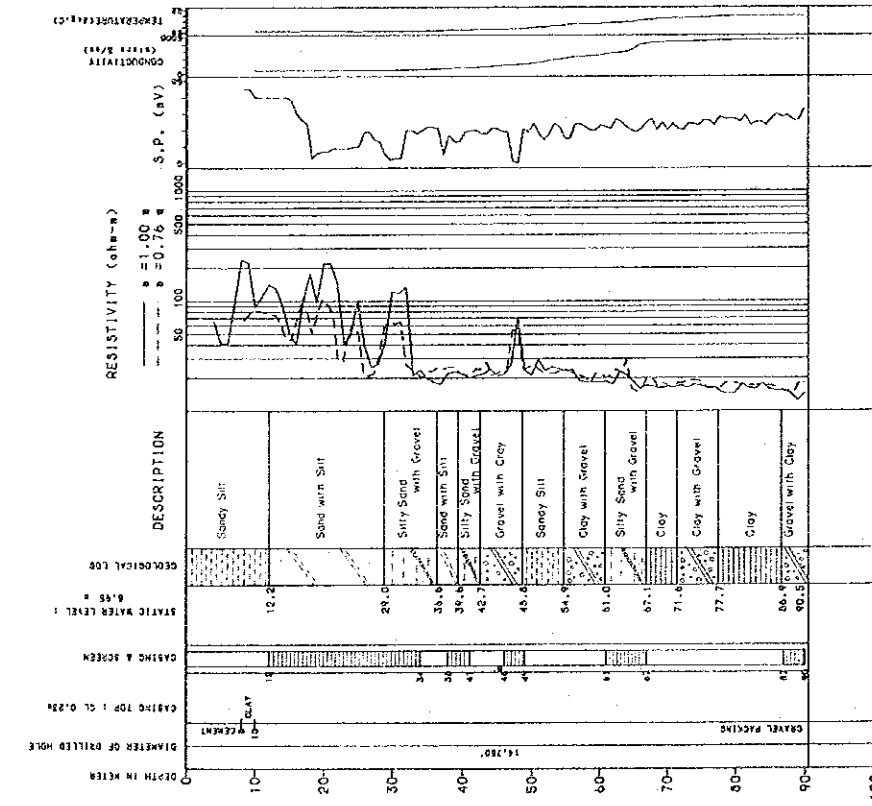
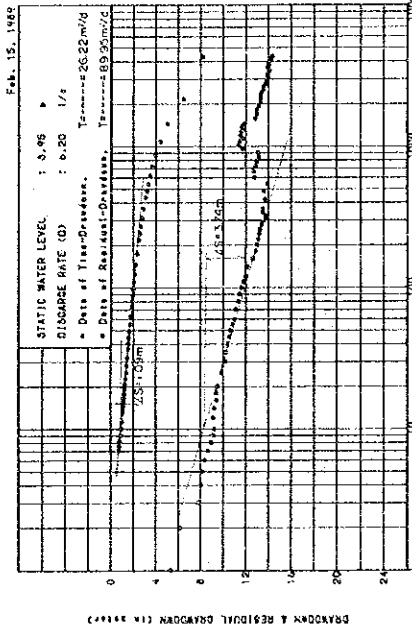


COORDINATION:  
X : 450.94  
Y : 1685.86  
ELEVATION : 585.00

**WATER QUALITY**

IN-SITU TEST	
Temp. (deg. C)	24.0
CO. (mg/l/lt)	450
MH	545
LABORATORY TEST	
T.S.	10.0
Hardness	10.0
CaCO3	10.0
Me	130.0
K	27.0
Cl	84.0
NO3	304.750
CO3	0.0
Fe	0.2
Mn	0.2

**TIME DRAWDOWN GRAPH & RESIDUAL DRAWDOWN GRAPH**  
Feb. 15, 1984



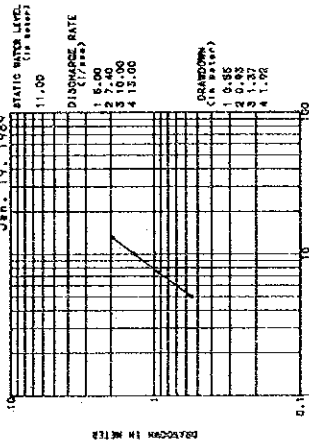
**LEGEND**

- Gravel
- Sand
- Silt
- Clay
- Silty Sand
- Sandy Silt
- Sandy Clay
- with Gravel
- with Sand
- with Silt
- with Clay

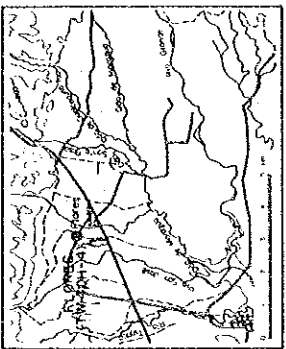
**Fig. 4.1.8 (6) WELL DRILLING RESULT (6/10)**  
- Yarumela TW-03 -

GOBIERNO DE LA REPUBLICA DE HONDURAS  
ESTUDIO PARA EL DESARROLLO DE LAS AGUAS  
SUBTERRANEAS DEL VALLE DE COMAYAGUA  
AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON

**STEP DRAWDOWN TEST**  
Jan. 19, 1989

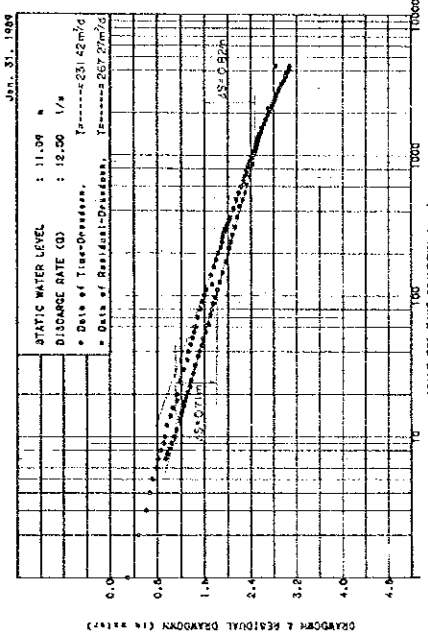


**LOCATION MAP**



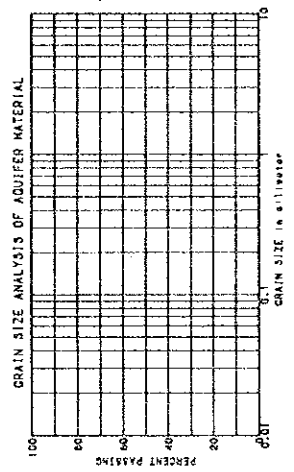
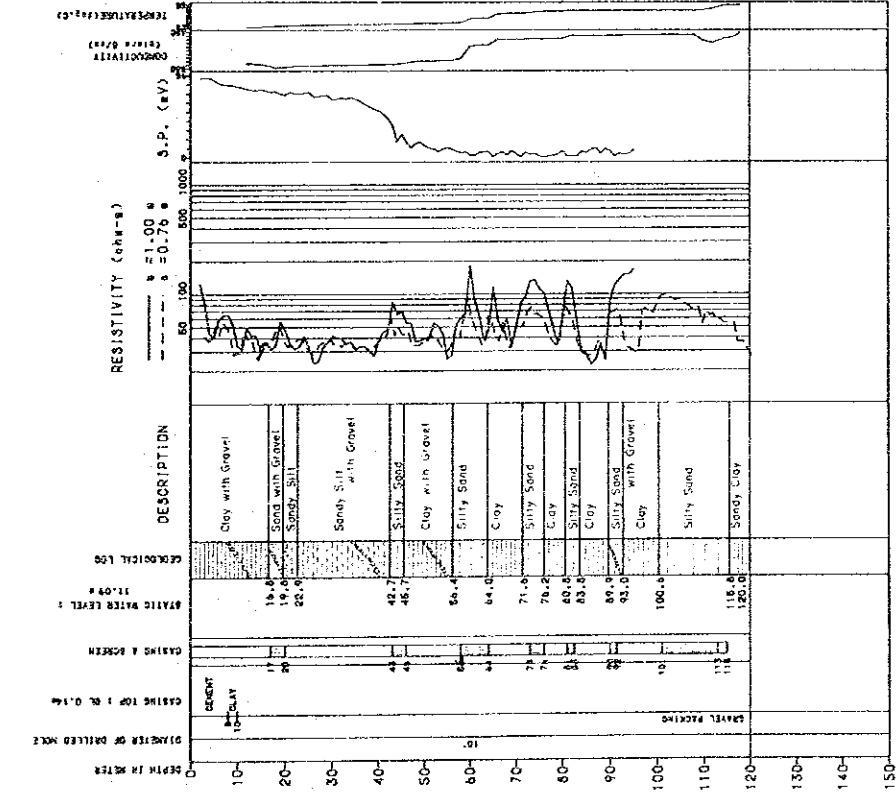
COORDINATION:  
X : 458.81  
Y : 1560.14  
ELEVATION : 635.00 m

**TIME DRAWDOWN GRAPH & RESIDUAL DRAWDOWN GRAPH**  
Jan. 31, 1989



**WATER QUALITY**

IN-SITU TEST  
Temp (C/F) :  
EC (microhm/cm):  
PH:  
LABORATORY TEST  
T.D.S  
Hardness  
Ca  
Mg  
K  
Cl  
NO3  
Fe



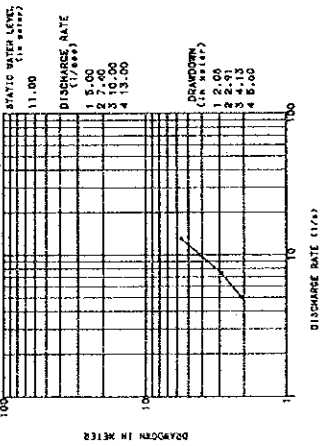
**LEGEND**

- Gravel
- Sand
- Silt
- Clay
- Silty Sand
- Sandy Clay
- Silt with Gravel
- Sand with Gravel
- Silt with Silt
- Clay with Clay
- Sandy Silt

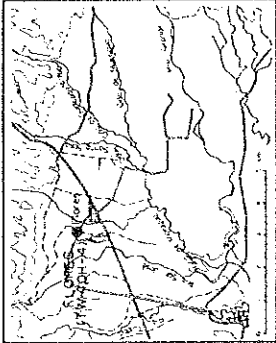
**Fig. 4.1.8 (7) WELL DRILLING RESULT (7/10)**  
- Flores OH-04 -

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**STEP DRAWDOWN TEST**  
Jan. 19, 1989

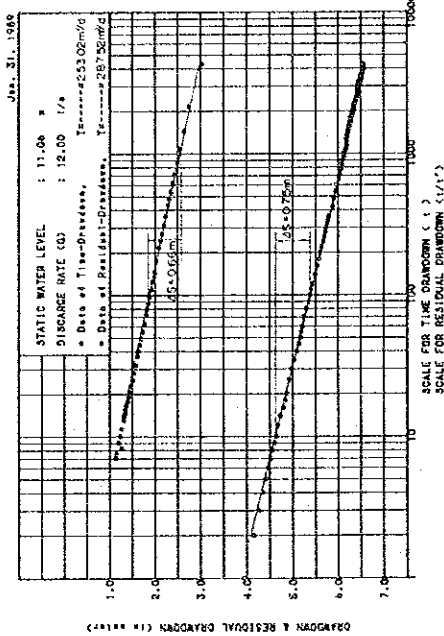


**LOCATION MAP**



COORDINATION:  
X : 430.01  
Y : 1500.14  
ELEVATION : 635.00 m

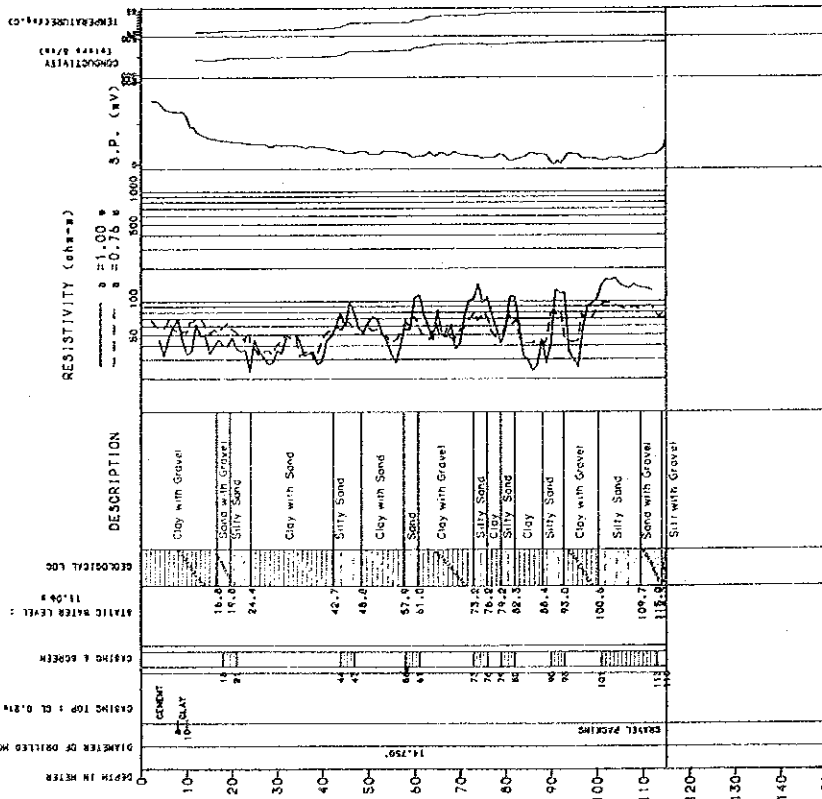
**TIME DRAWDOWN GRAPH & RESIDUAL DRAWDOWN GRAPH**  
Jan. 31, 1989



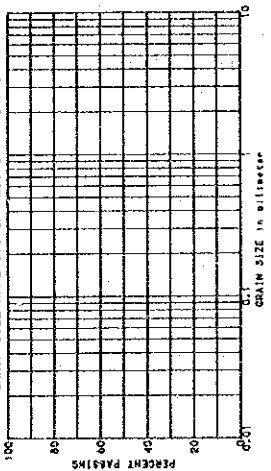
**WATER QUALITY**

IN-SITU TEST  
Temp (C/F) : 27.0  
pH (calculated) : 8.00  
Hardness : 100.0 mg/l  
Ca : 20.0 mg/l  
Mg : 80.0 mg/l

LABORATORY TEST  
T.D.S : 100.0 mg/l  
Sulfate : 10.0 mg/l  
Nitrate : 0.0 mg/l  
Chloride : 0.0 mg/l  
Total Solids : 100.0 mg/l



**GRAIN SIZE ANALYSIS OF AQUIFER MATERIAL**



**LEGEND**

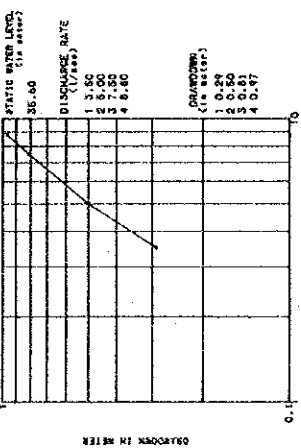
- Gravel
- Sand
- Silt
- Clay
- Silty Sand
- Sandy Silt
- Sandy Clay
- CLAY with Gravel
- Sand with Sand
- CLAY with Silt
- Silty Sand with Clay

DRILLING STARTED ON: Mar. 20, 1988  
COMPLETED ON: Jan. 10, 1989  
DRILLING MACHINE: GARDNER DENVER MODEL 1500

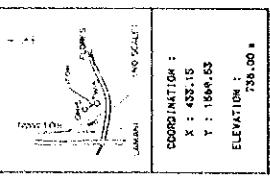
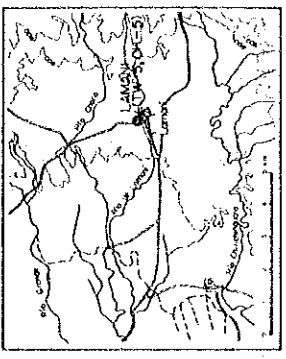
**Fig. 4.1.8 (8) WELL DRILLING RESULT (8/10)**  
- Flores TW-04 -

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**STEP DRAWDOWN TEST**  
Feb. 6, 1968



**LOCATION MAP**

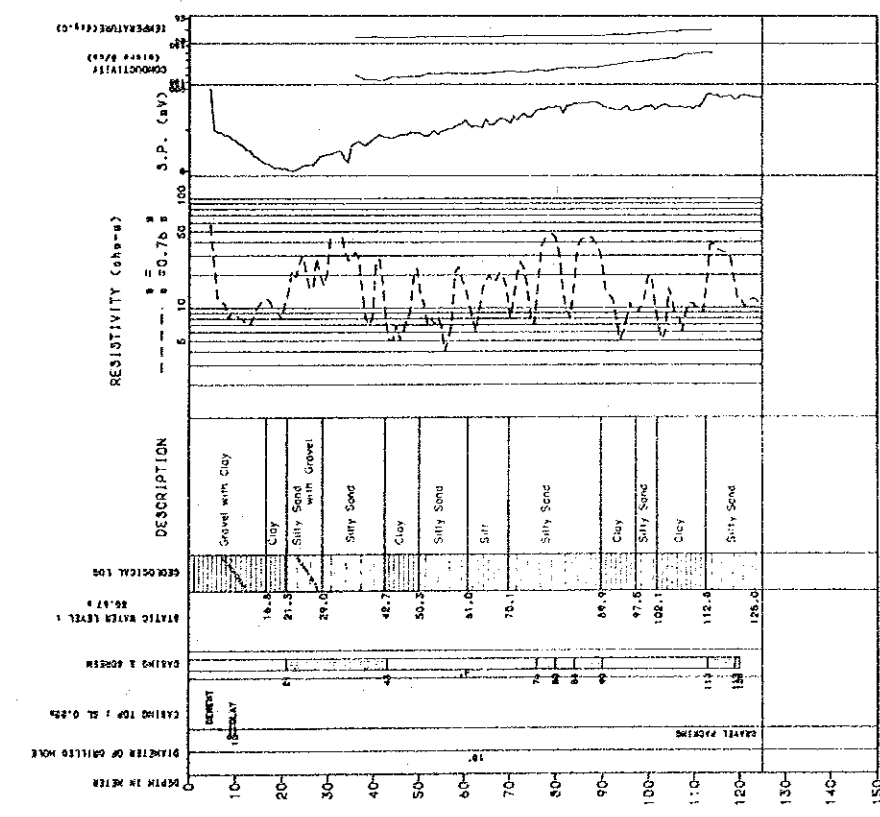
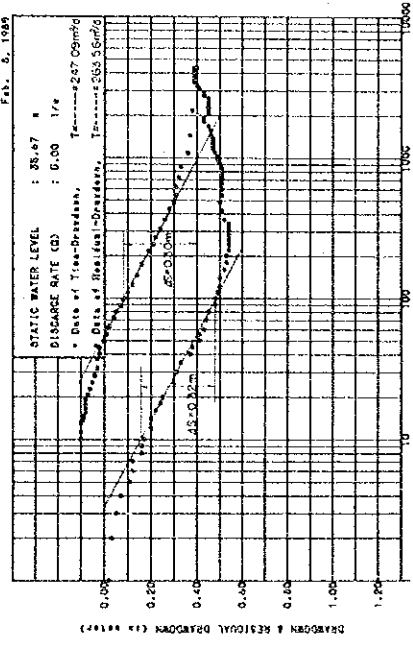


**WATER QUALITY**

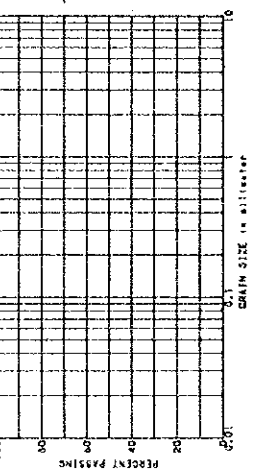
IN-SITU TEST	
Temp. (Celsius) :	
EC. (microhm/cm) :	
pH :	
LABORATORY TEST	
T.D.B	
Hardness	
Ca	
Mg	
Cl	
NO3	
Fe	

COMPOSITIONAL ANALYSIS  
CONTINUED IN 14/17

**TIME DRAWDOWN GRAPH & RESIDUAL DRAWDOWN GRAPH**  
Feb. 6, 1968



**DRAIN SIZE ANALYSIS OF AQUIFER MATERIAL**

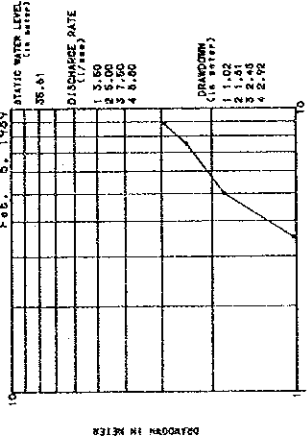


- LEGEND**
- Gravel
  - Sand
  - Silt
  - Clay
  - Silty Sand
  - Sandy Silt
  - Gravel with Clay
  - Sand with Gravel
  - Silt with Sand
  - Clay with Silt
  - Silty Sand with Clay
  - Sandy Silt with Clay

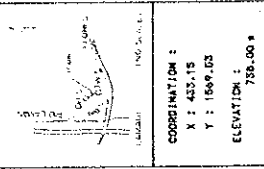
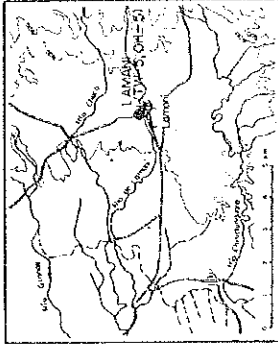
**Fig. 4.1.8 (9) WELL DRILLING RESULT (9/10)**  
- Lamani OH-05 -

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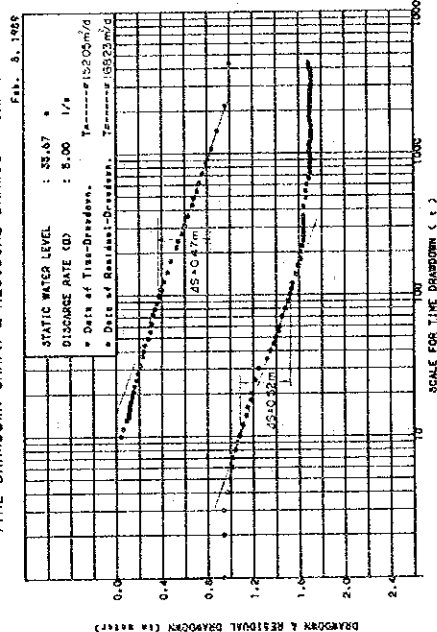
**STEP DRAWDOWN TEST**  
Feb. 5, 1968



**LOCATION MAP**



**TIME DRAWDOWN GRAPH & RESIDUAL DRAWDOWN GRAPH**  
Feb. 5, 1968



**WATER QUALITY**

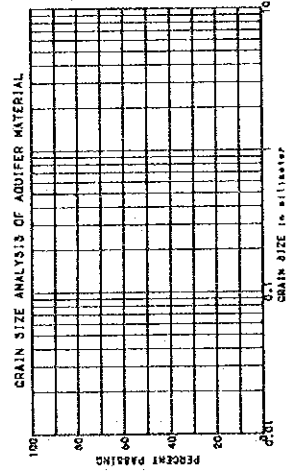
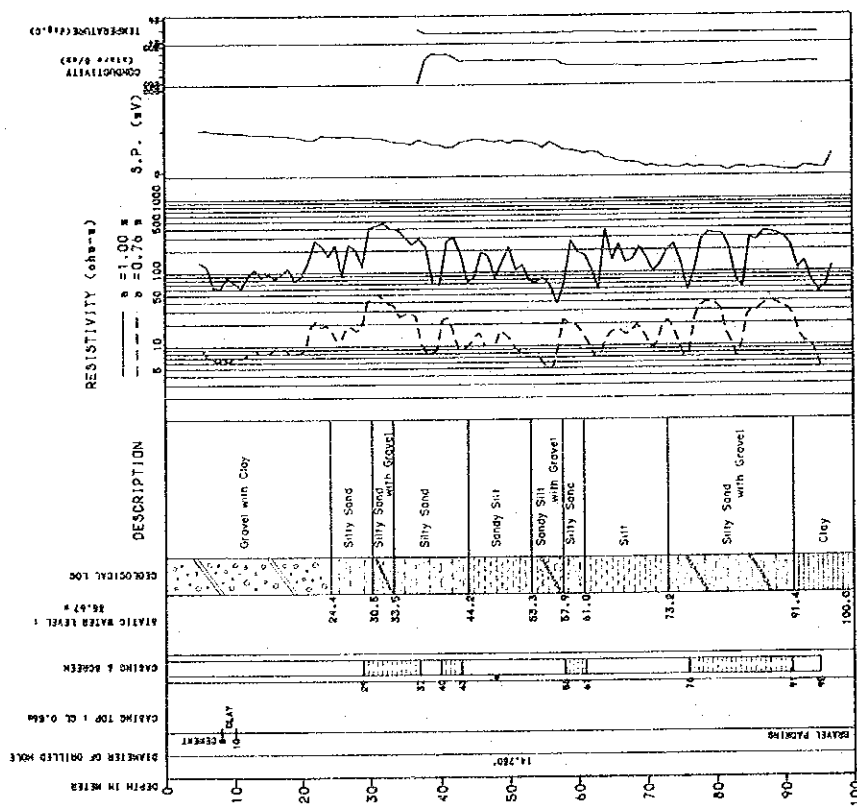
IN-SITU TEST :

Temp. (deg C) : 26.0  
 EC. (micro/mho/cm) : 260  
 PH :  
 HARDNESS :

LABORATORY TEST :

T.D.B  
 Chloride  
 Ca : 4.9 Mg : 5.4  
 Na : 73.0 K : 21.0  
 CI : 65.0 CO<sub>3</sub> : 9.6  
 MOISTURE :  
 P<sub>1</sub> : < 0.1 P<sub>2</sub> : < 0.1

CONCENTRATIONS ARE EXPRESSED IN mg/l



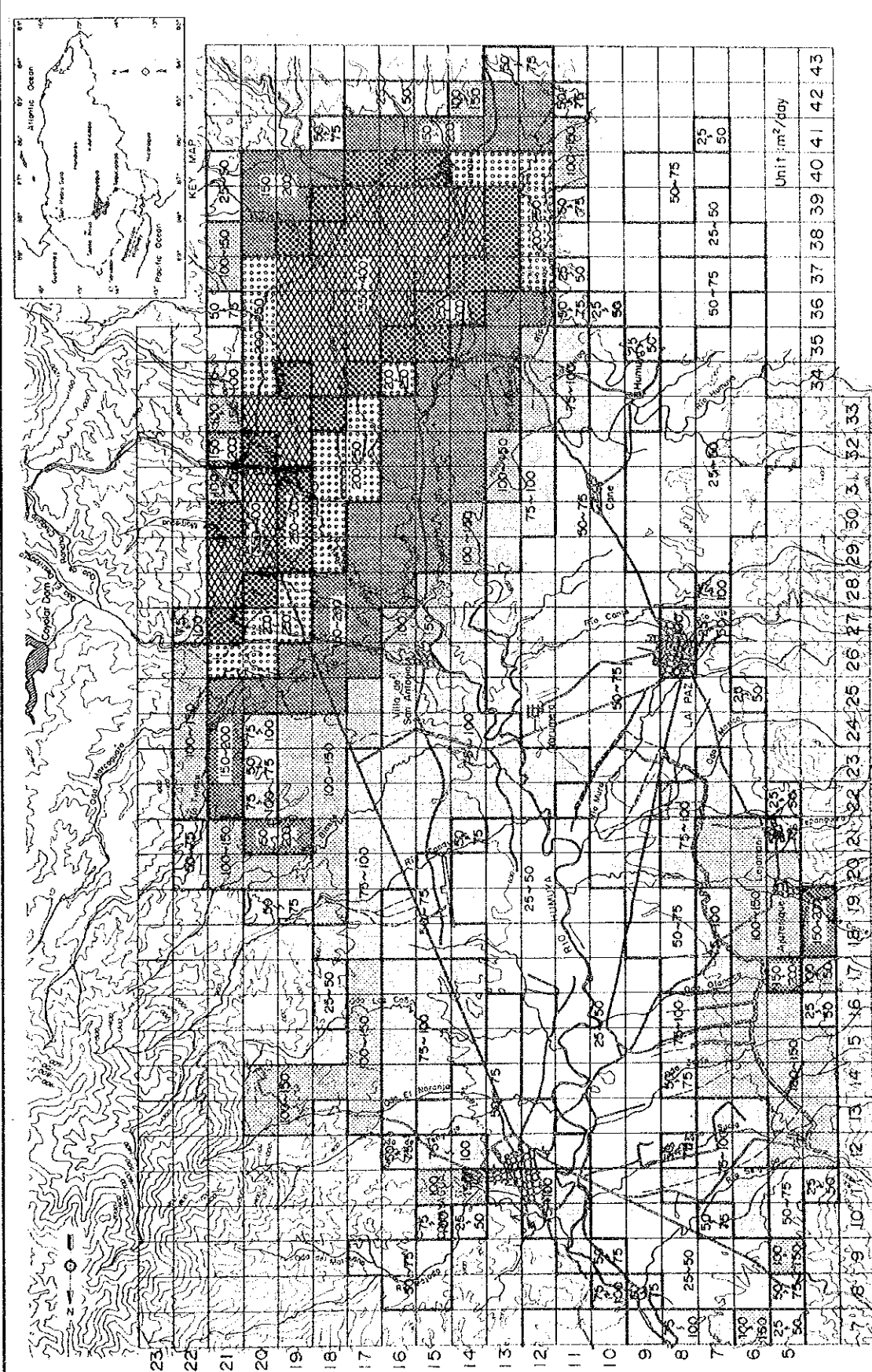
**LEGEND**

- Gravel
- Sand
- Silt
- Clay
- Silty Sand
- Sandy Silt
- Sandy Clay
- Silty Sand with Gravel
- Silt with Sand
- Clay with Silt
- Silty Sand with Clay
- Sandy Silt

DRILLING STARTED ON Oct. 31, 1968  
 COMPLETED ON Jan. 4, 1968  
 DRILLING MACHINE SORAHUM 16-110

**Fig. 4.1.8 (10) WELL DRILLING RESULT (10/10)**  
- Lamani TW-05 -

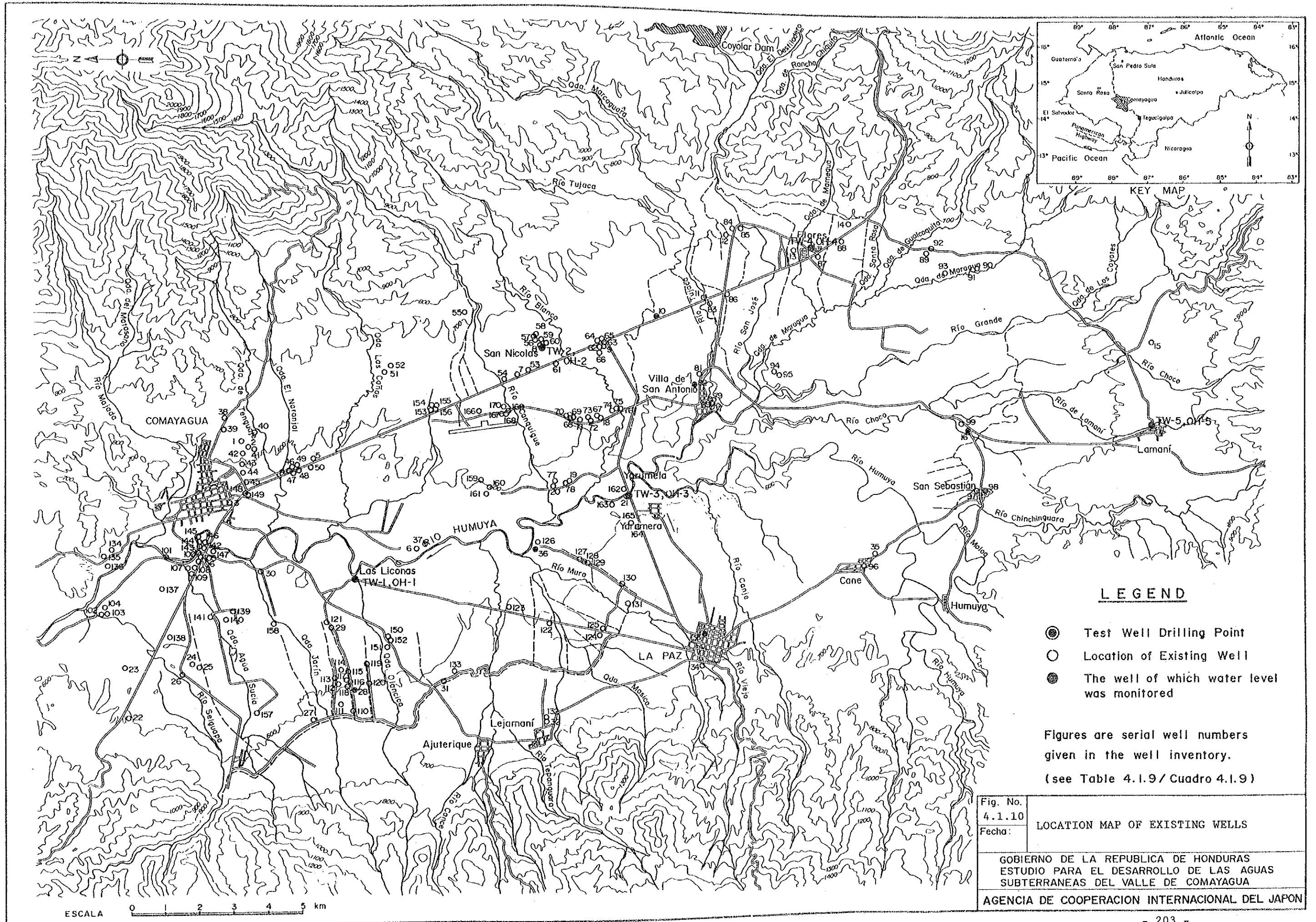
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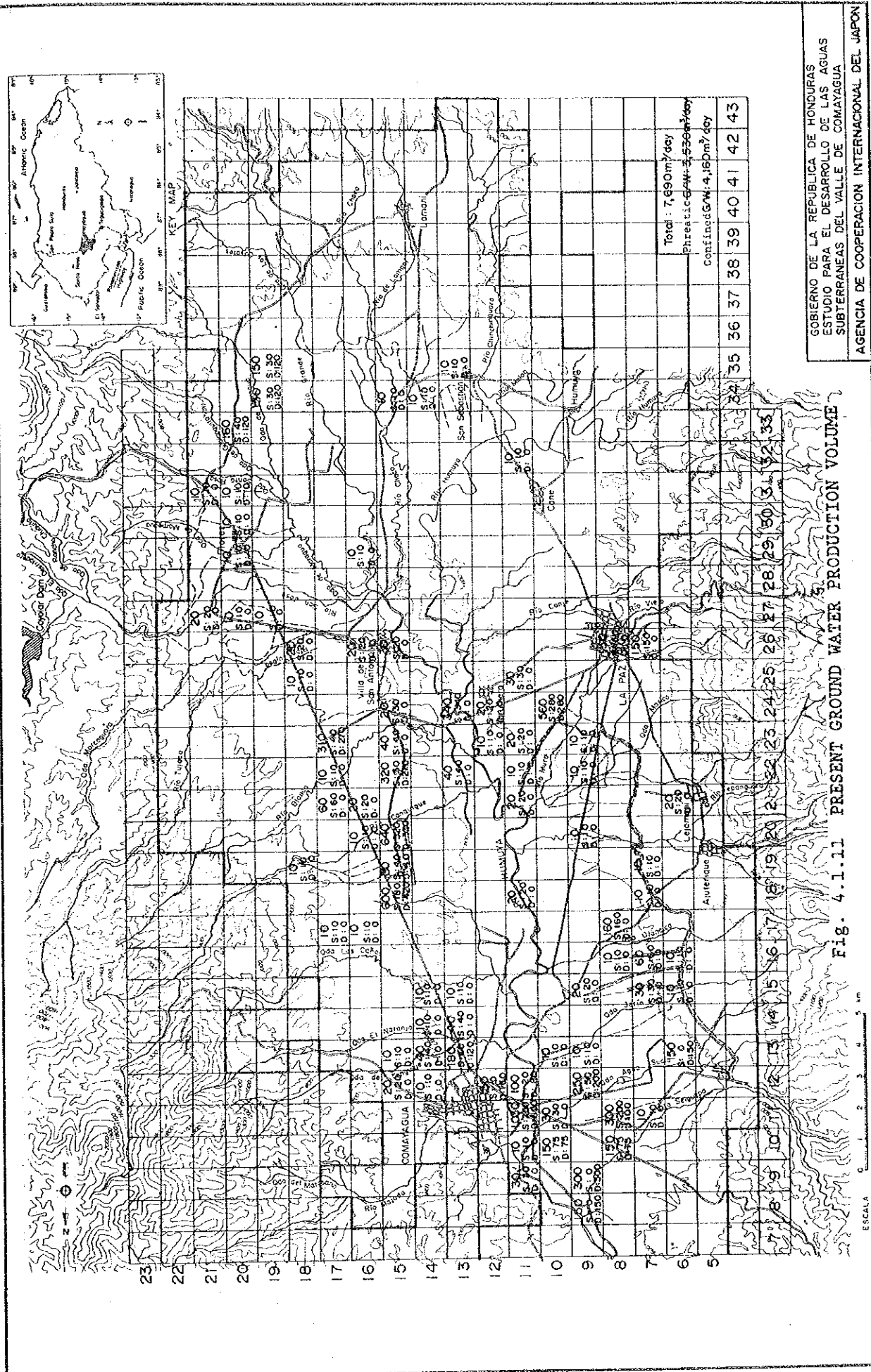
Fig. 4.1.9 TRANSMISSIVITY MAP OF THE CONFINED WATER

ESCALA 0 1 2 3 4 5 km



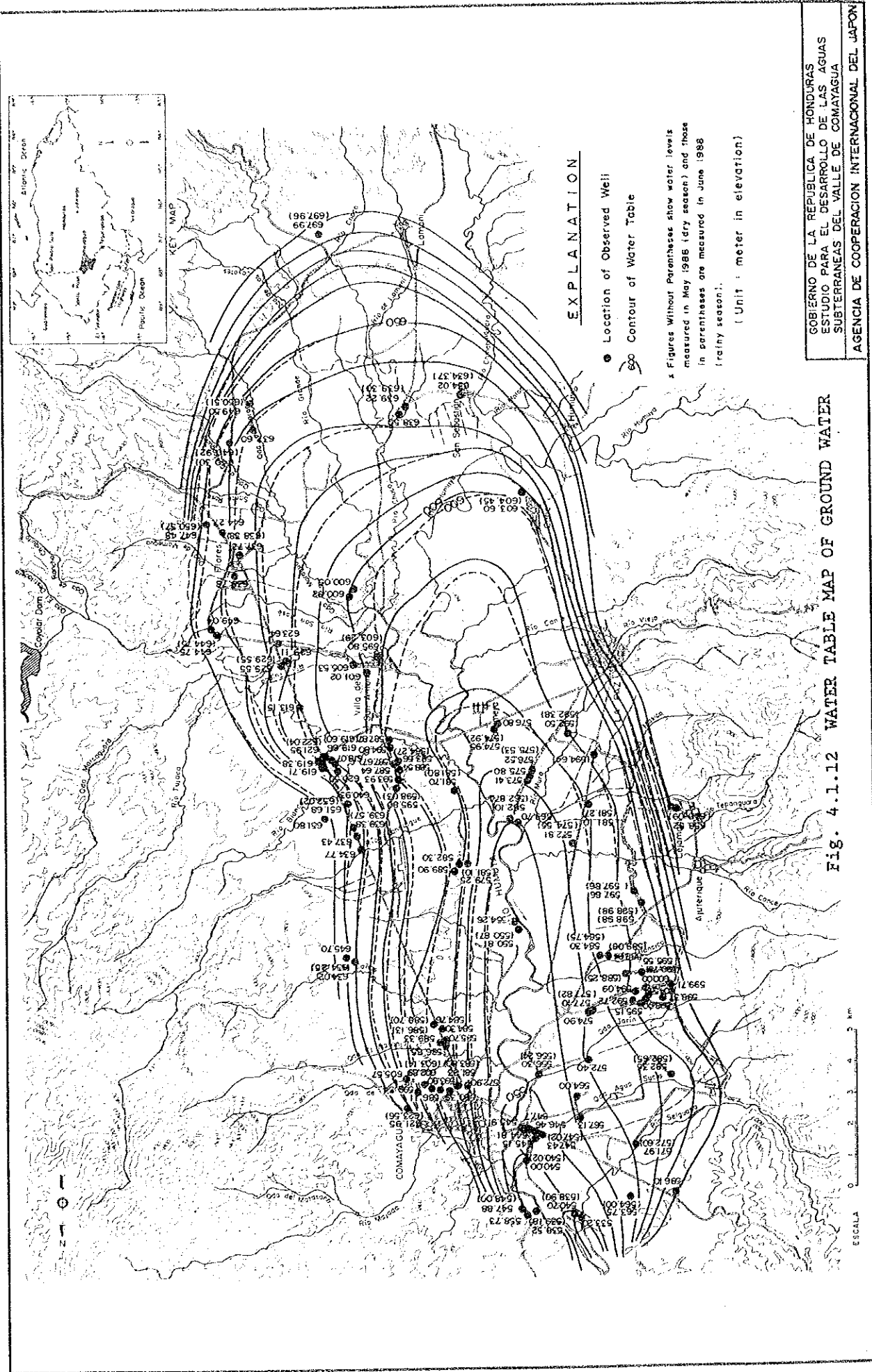






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Fig. 4.1.11 PRESENT GROUND WATER PRODUCTION VOLUME



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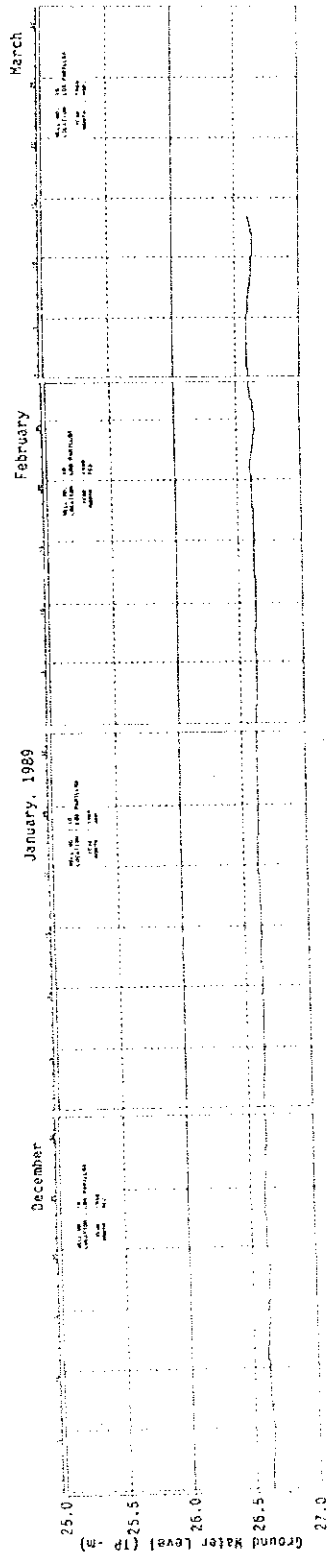
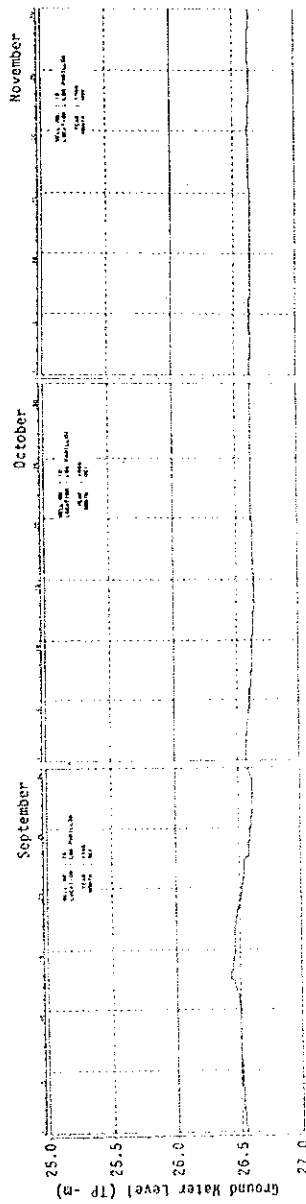
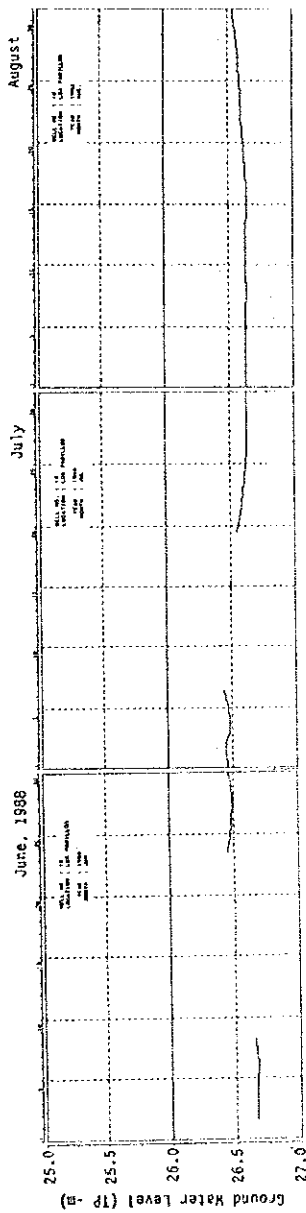


Fig. 4.1.13 (1) HYDROGRAPH OF EXISTING WELL (1/6)  
- LOS PALILLOS : WELL NO. 10 -

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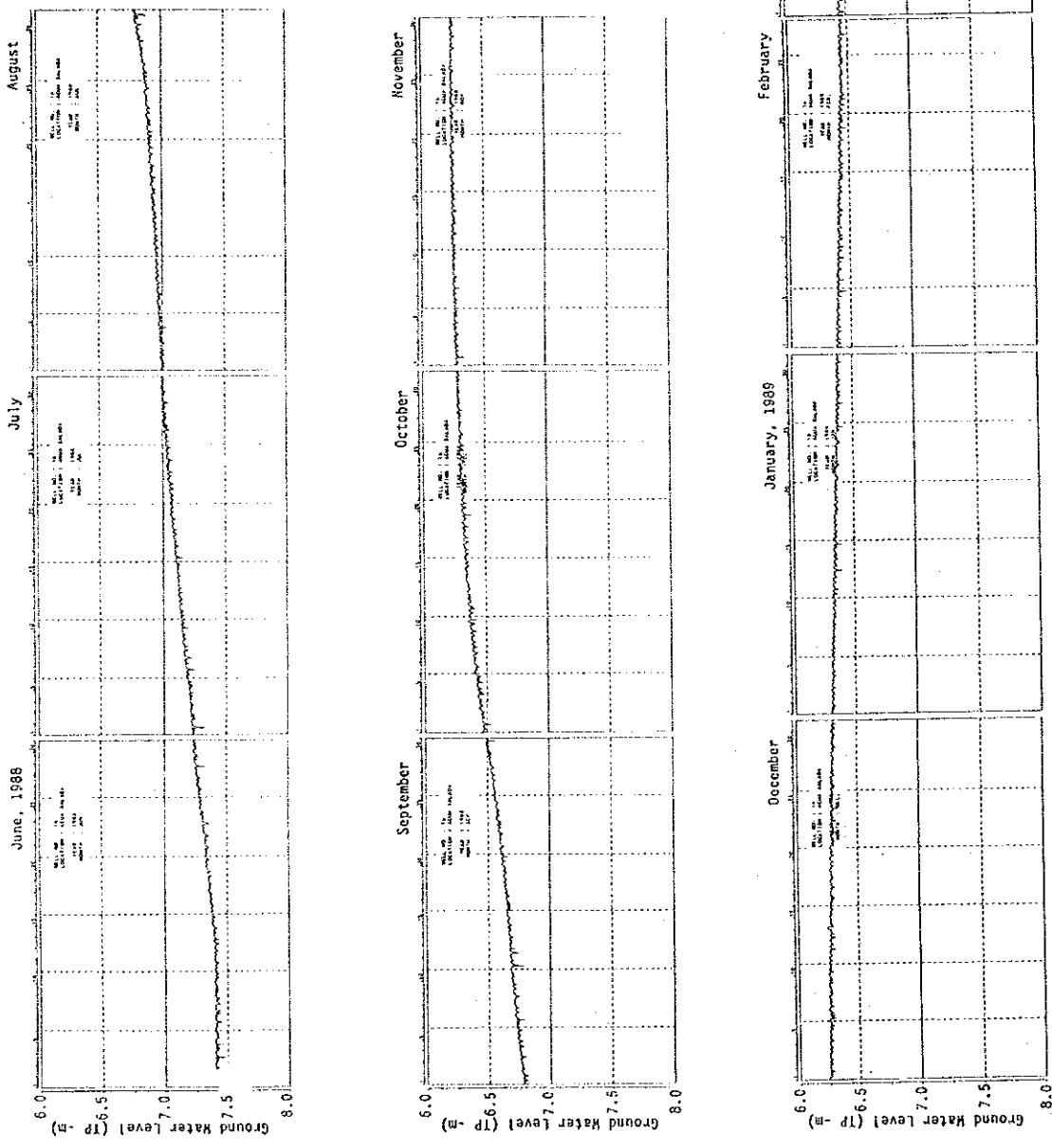


Fig. 4.1.13 (2) HYDROGRAPH OF EXISTING WELL (2/6)  
 - AGUA SALADA : WELL NO. 16 -

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 Estudio para el desarrollo de las aguas  
 subterráneas del Valle de Comayagua  
 Agencia de Cooperación Internacional del Japón

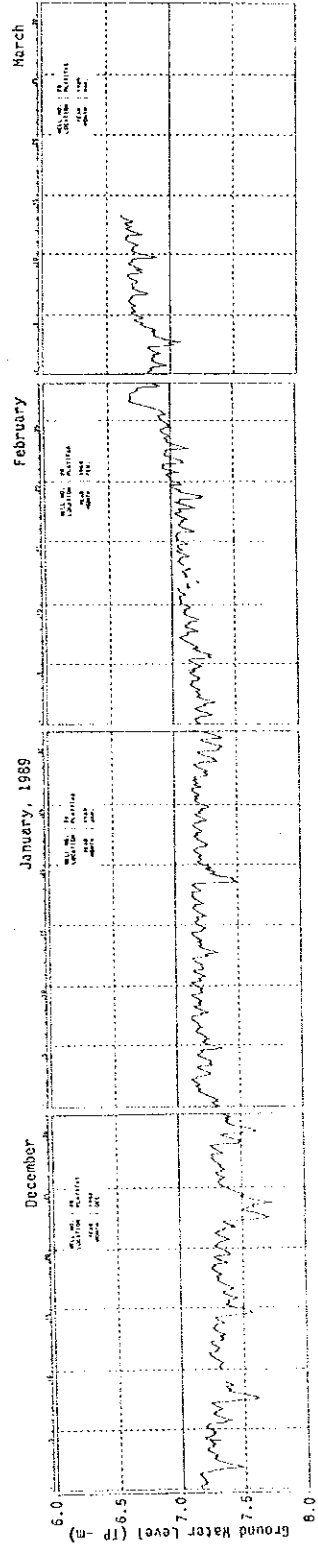
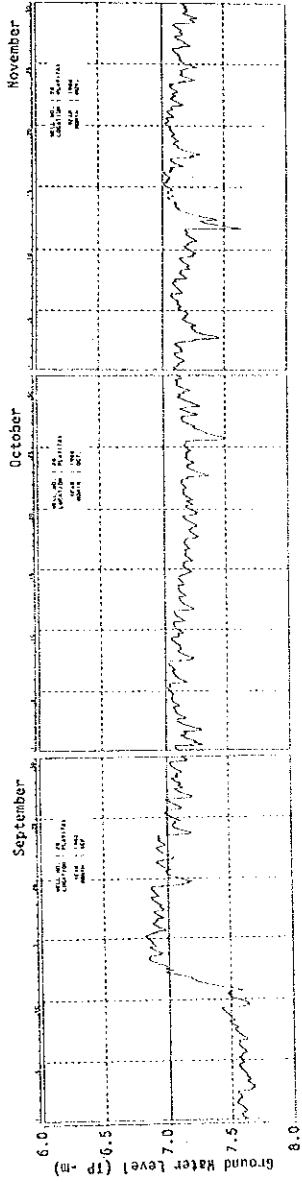
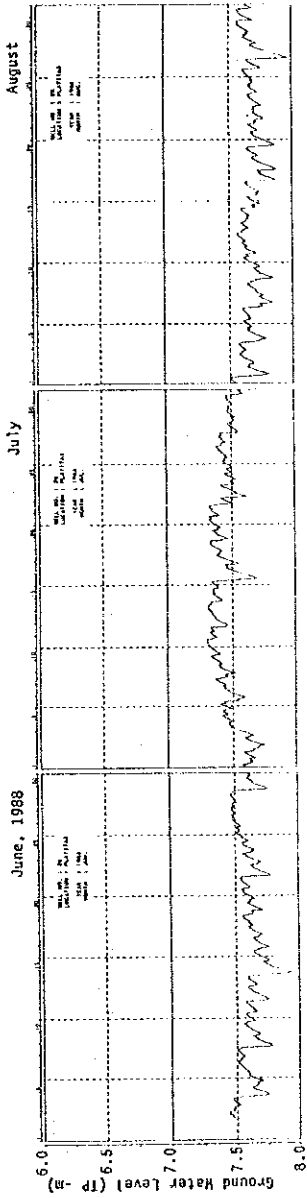


Fig. 4.1.13 (3) HYDROGRAPH OF EXISTING WELL (3/6)

- PLAYITAS : WELL NO. 28 -

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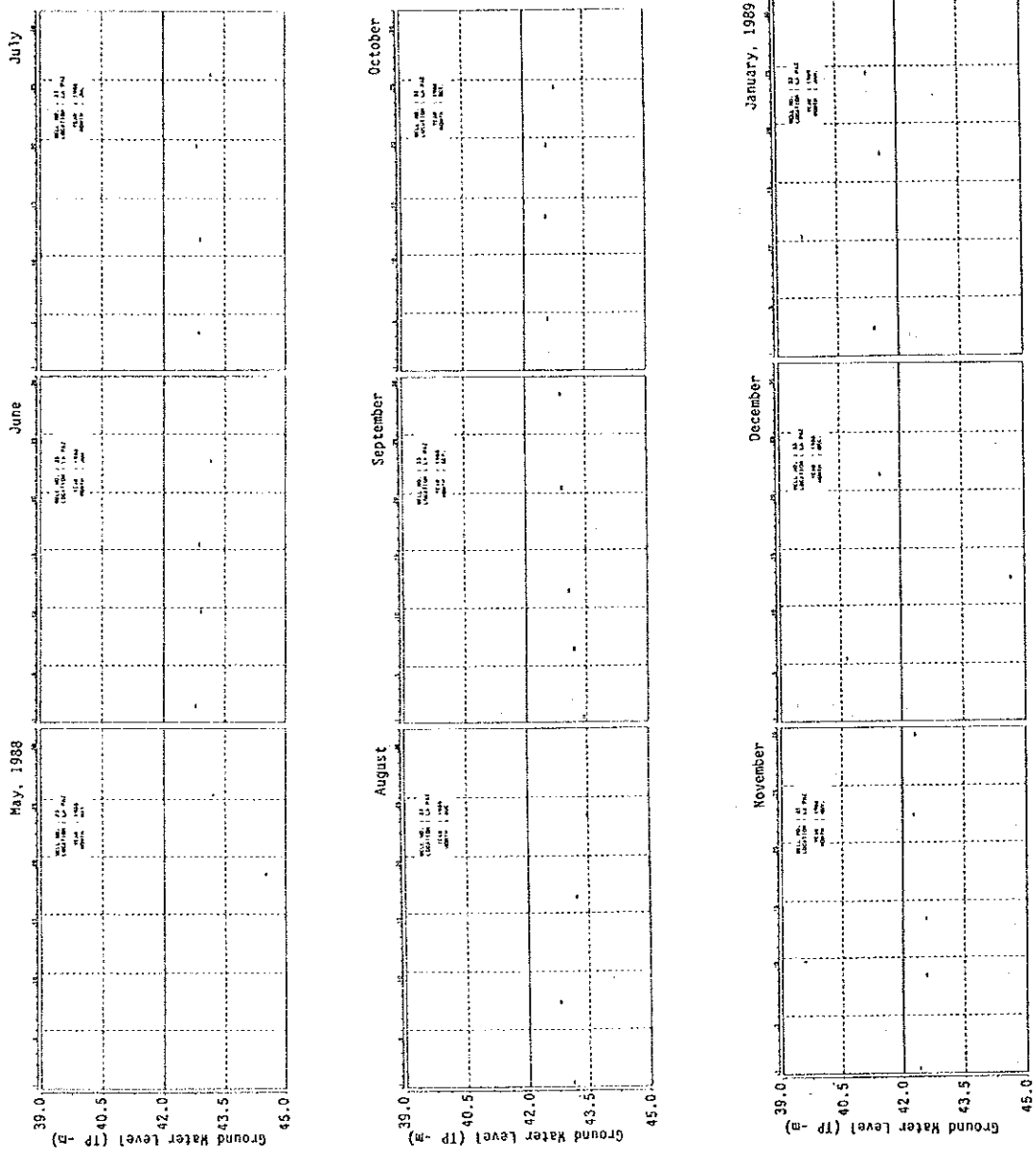


Fig. 4.1.13 (4) HYDROGRAPH OF EXISTING WELL (4/6)  
 - LA PAZ : WELL NO. 33 -

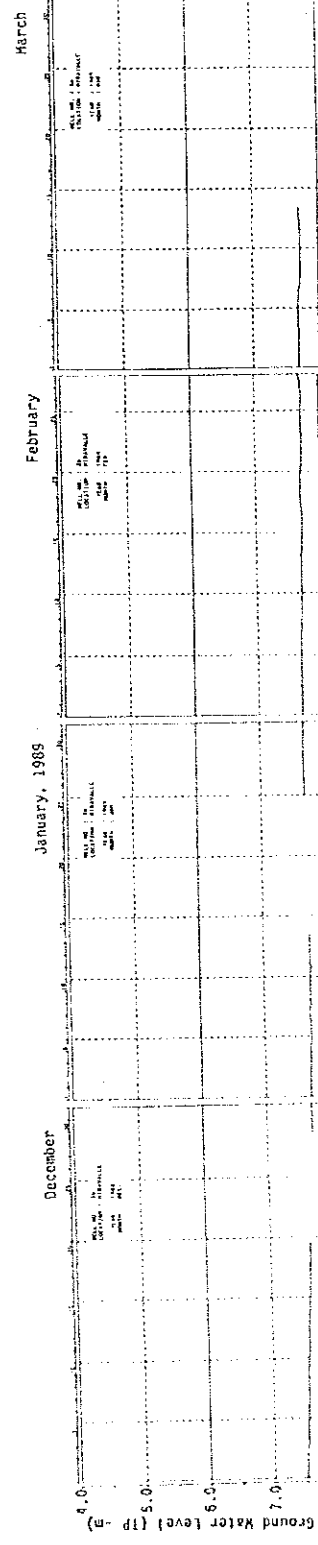
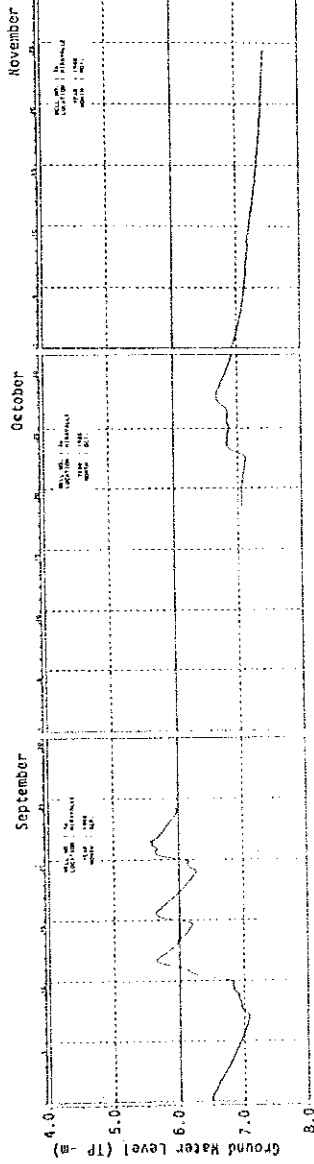
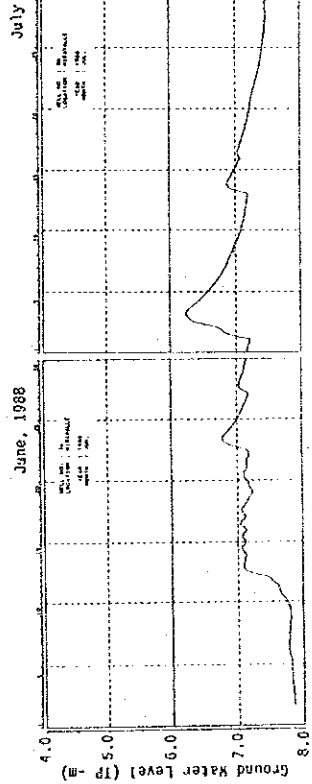
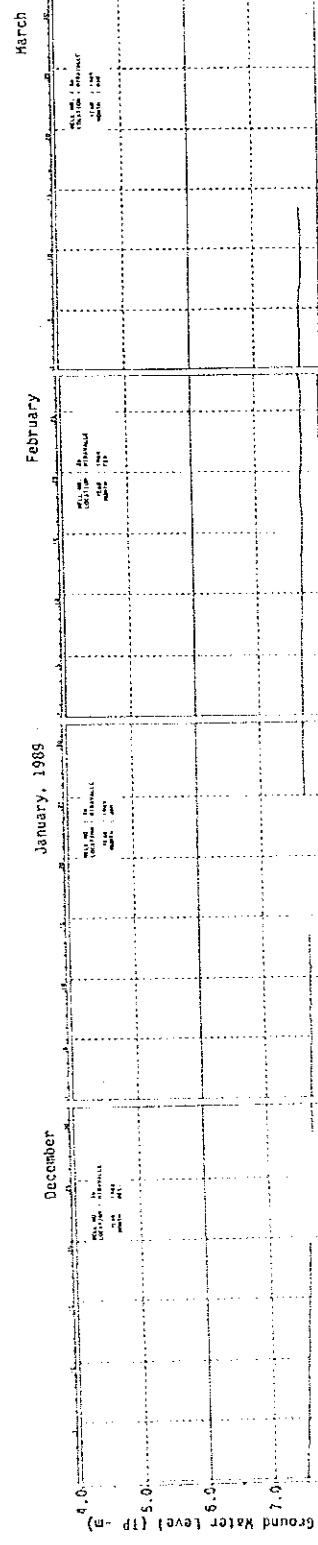
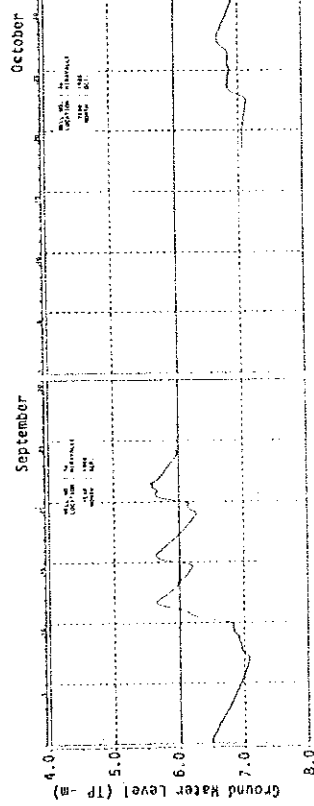
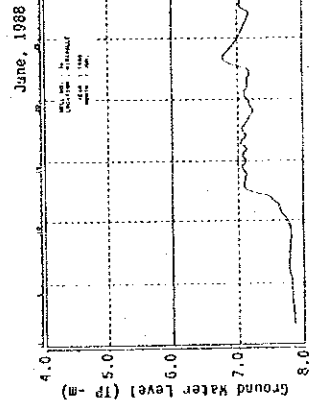
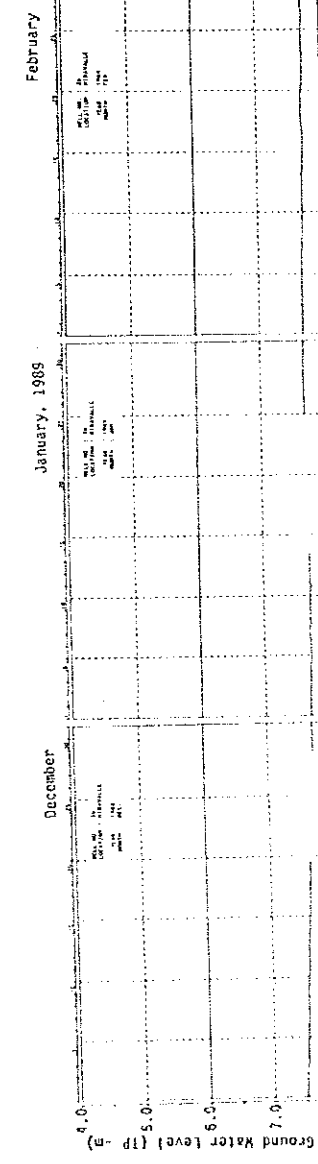
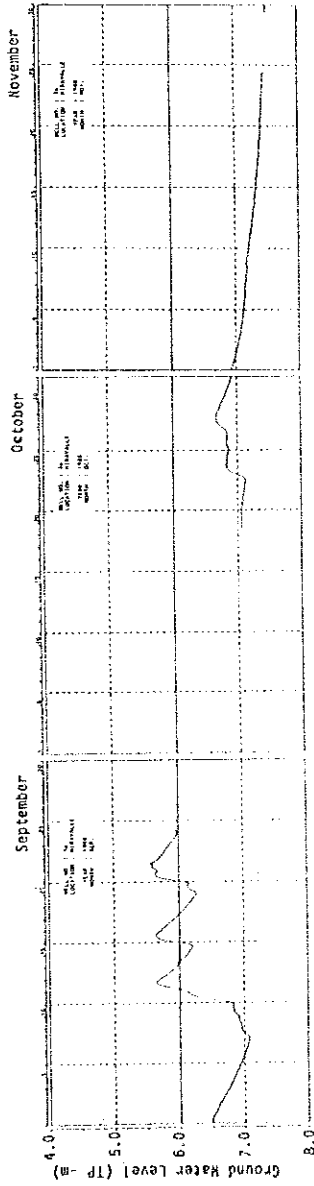
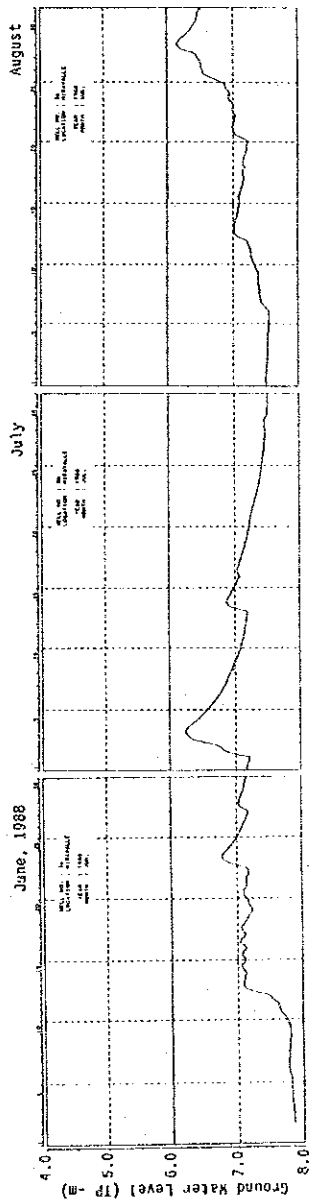


Fig. 4.1.13 (5) HYDROGRAPH OF EXISTING WELL (5/6)  
 - MIRAVALLE : WELL NO. 36 -



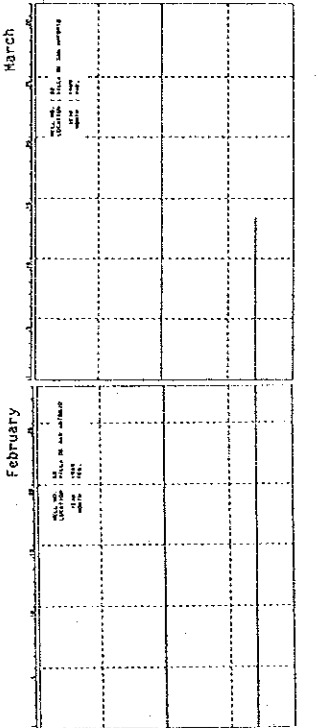
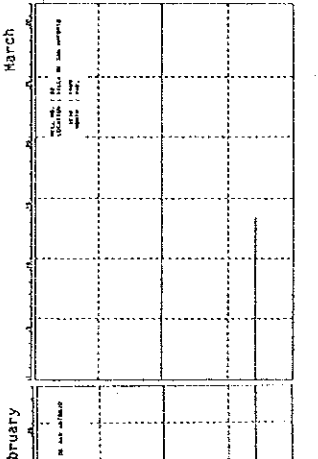
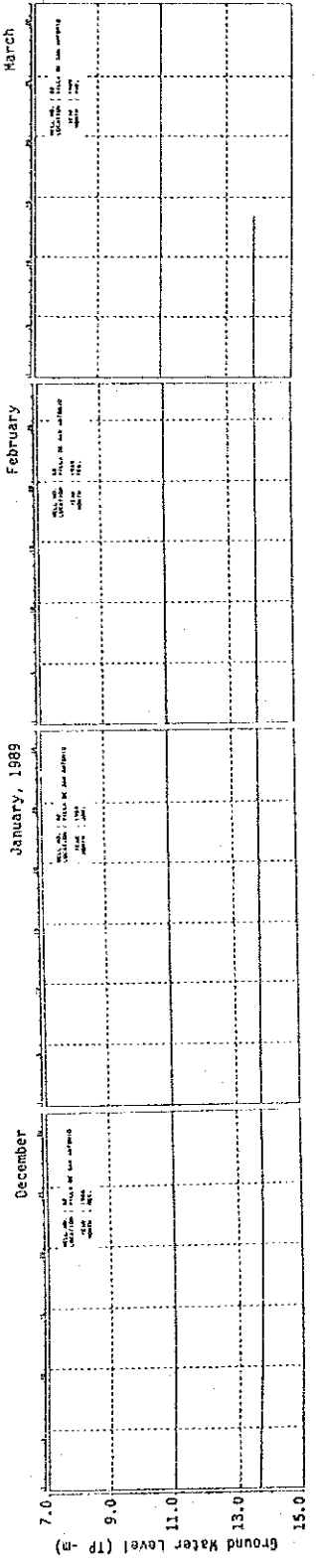
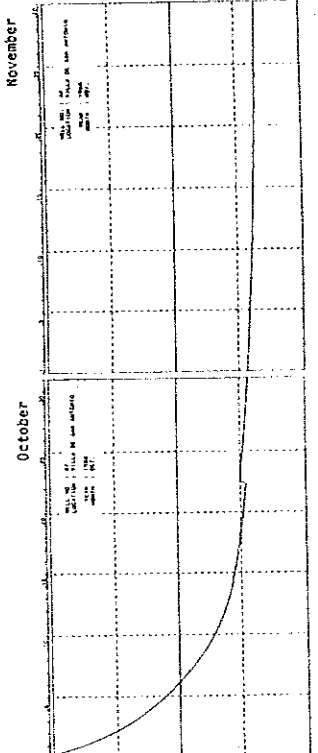
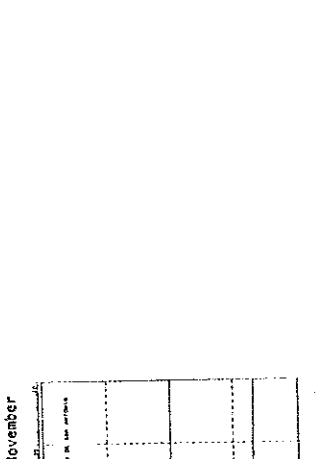
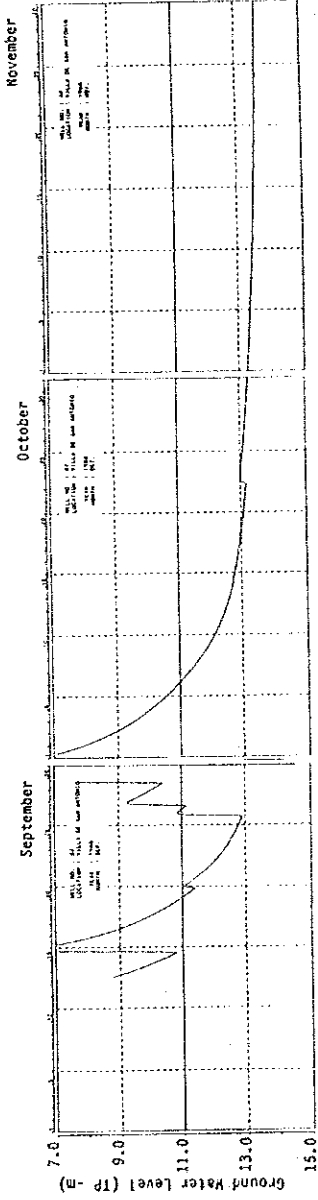
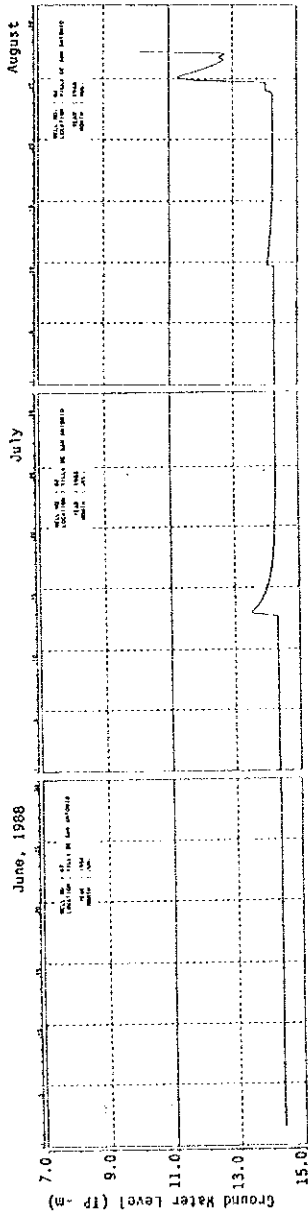


Fig. 4.1.13 (6) HYDROGRAPH OF EXISTING WELL (5/6)  
- VILLA DE SAN ANTONIO : WELL NO. 82 -

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