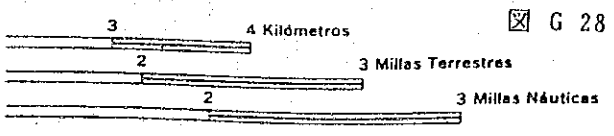


838 191 839 192 840 193 841 194 50' 842 195 843 196 844 197 845 198 846 199 847 200 32

JUTIAPA 7.5 KM.
CULAPA 65 KM.

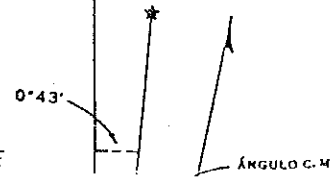


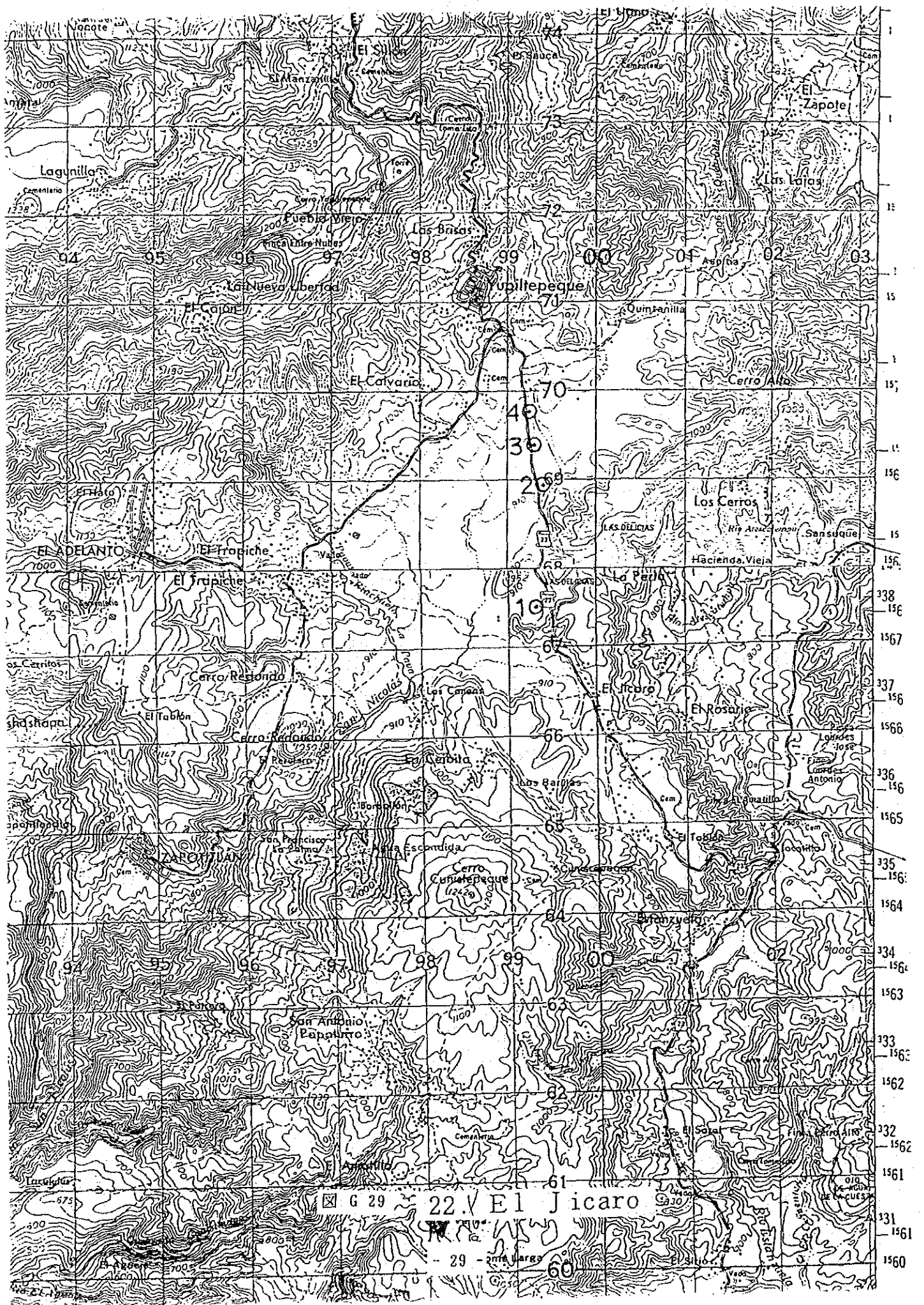
☒ G 28

28.X El Guayabo

IMPRE

3 DE 20 METROS





22 El Jicaro

29 - 29 - 60

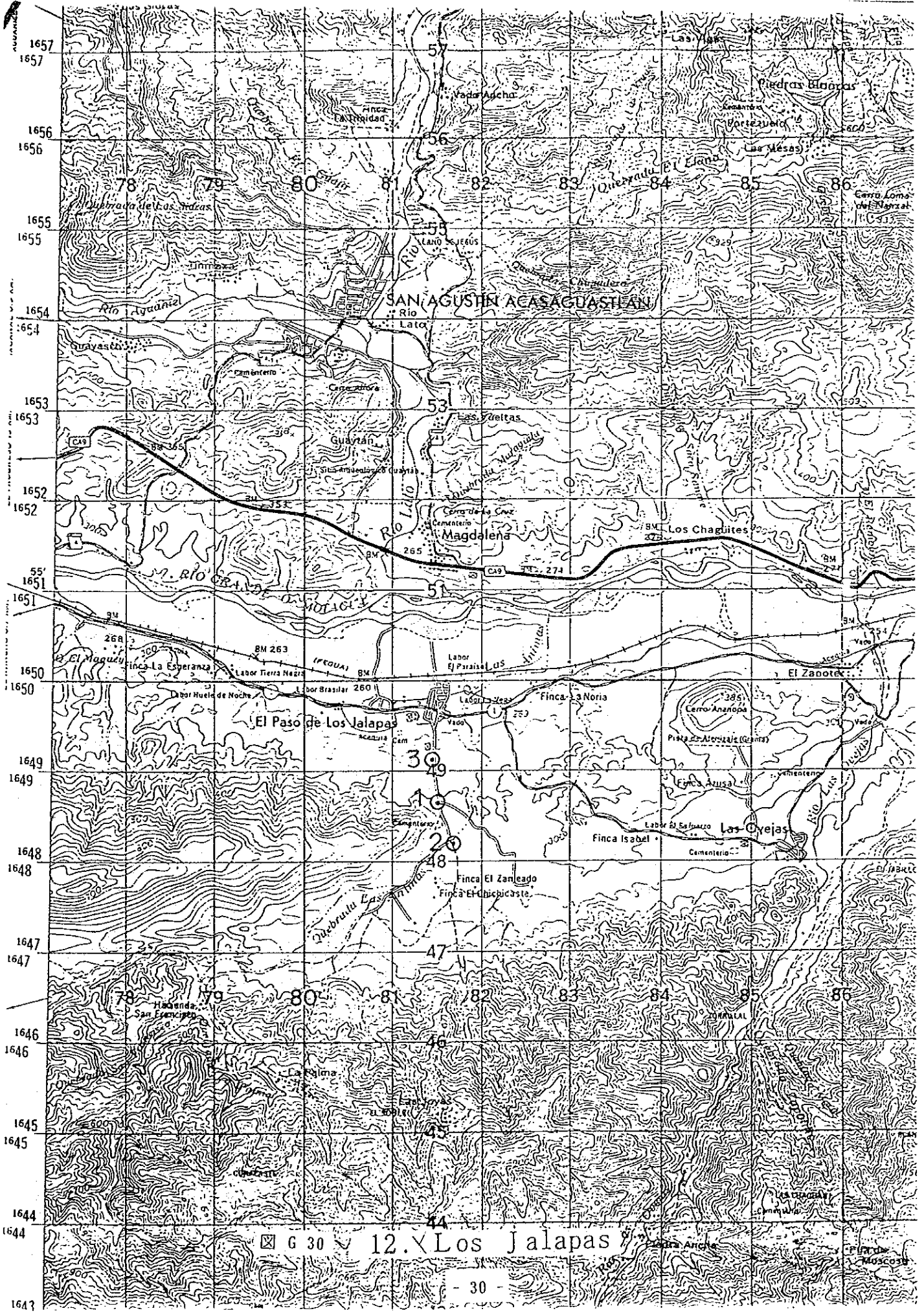
94 95 96 97 98 99 00 01 02 03

94 95 96 97 98 99 00 01 02

61 62 63 64 65 66 67 68 69 70

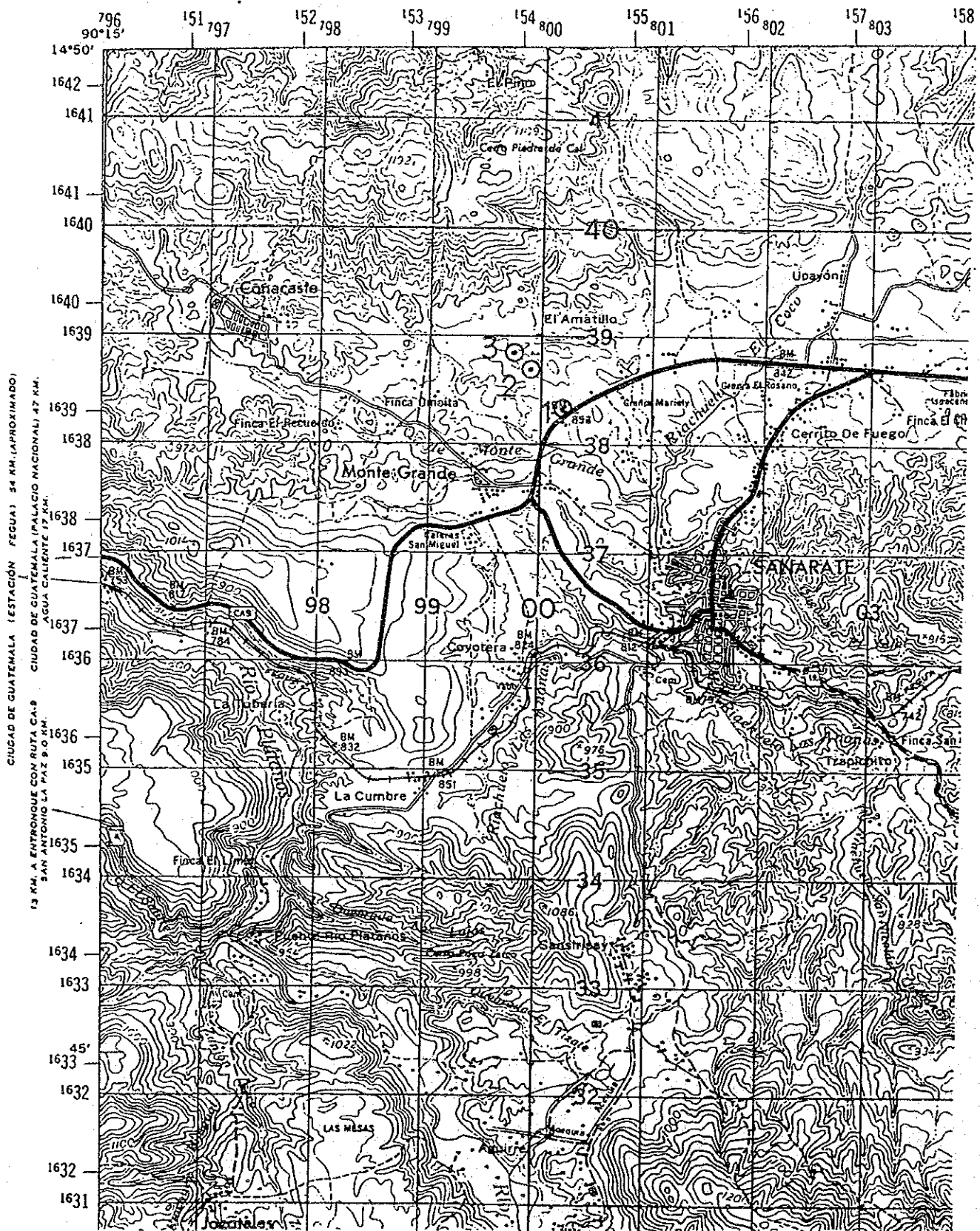
31 32 33 34 35 36 37 38 39

1560 1561 1562 1563 1564 1565 1566 1567 1568



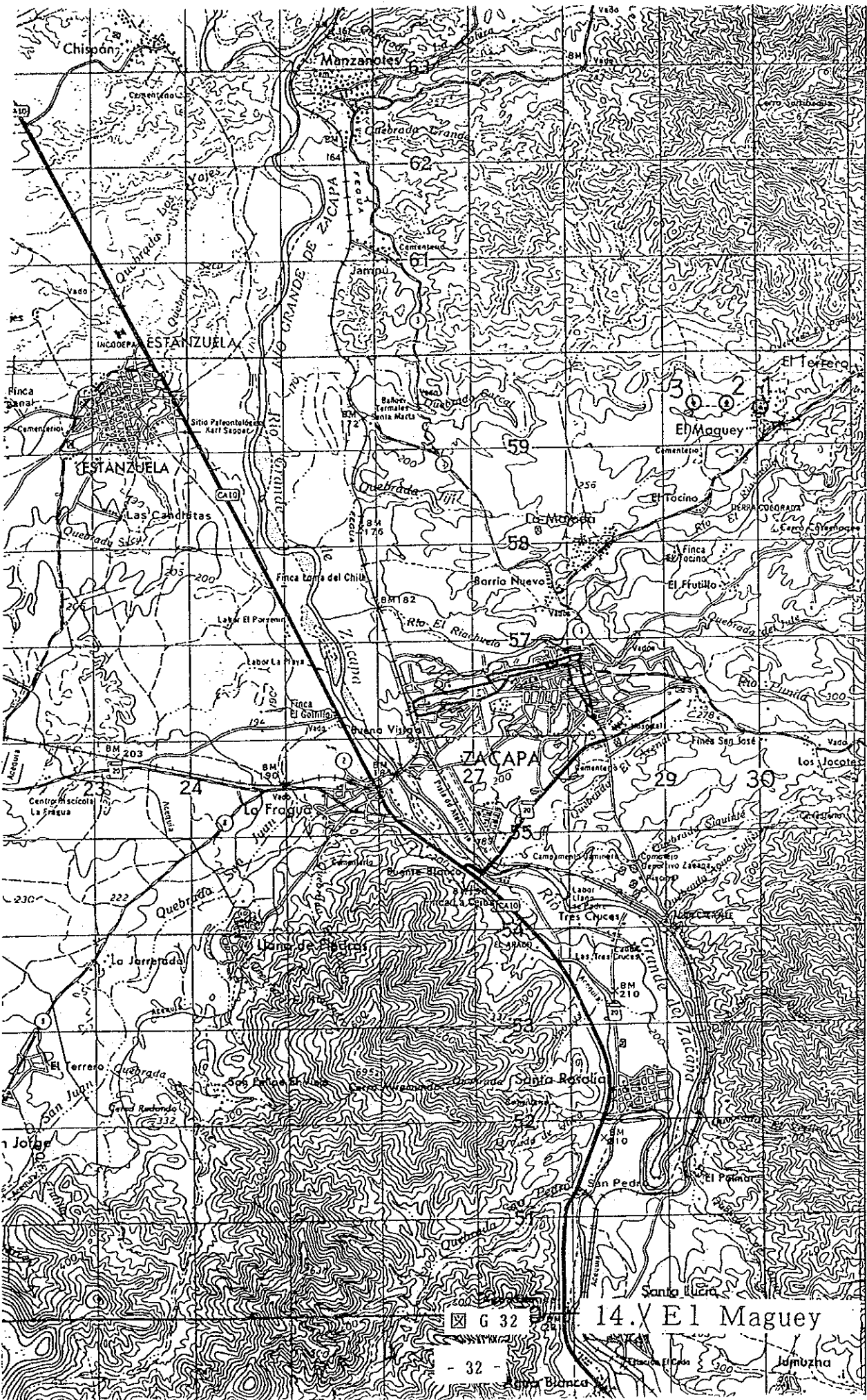
G 30 12 Los Jalapas

GUATEMALA 1:50,000



CIUDAD DE GUATEMALA (ESTACION FEGUA) 34 KM. (APROXIMADO)
 13 KM. A ENTRONQUE CON RUTA CA-9 CIUDAD DE GUATEMALA (PALACIO NACIONAL) 47 KM.
 SAN ANTONIO LA PAZ 9.0 KM. AGUA CALIENTE 17 KM.

☒ G 31 13 X El Upayon (Matazano)



1663
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Cié
Rái
Ná:
Na:
Roc
Roc
Pel
Sor
Arr
Cur

14. El Maguey

Fig. G - 33 ESQUEMA DE LA ESTRUCTURA GEOLOGICO EN EL LUGAR DE POZO PLANIFICADO

Nombre del sitio	
Las Aradas	Fig. 33
La Coronada	Fig. 34
La Esperanza	Fig. 35
Shusho Abajo	Fig. 36
Sansare	Fig. 37
Sansare II	Fig. 38
Los Cerritos	Fig. 39
San Agustín	Fig. 40
El Tintero	Fig. 41
Las Ovejas	Fig. 42
Lo de China	Fig. 43
Los Jalapas	Fig. 44
El Matazano	Fig. 45
El Maguey	Fig. 46
San Vicente	Fig. 47
La Palmilla	Fig. 48
Horcones	Fig. 49
La Arada	Fig. 50
El Rodeo	Fig. 51
El Tempisque	Fig. 52
El Trapiche	Fig. 53
El Jicaro	Fig. 54
Jalpatagua	Fig. 55
El Coco	Fig. 56
Playa de Coyol	Fig. 57
Chiquimulilla	Fig. 58
Trancas I	Fig. 59
El Guayabo	Fig. 60
Monjas	Fig. 61
La Pena	Fig. 62
Data Sheet for Resistivity Sounding	Fig. 64
Explicación de Análisis	Fig. 65
Ejemplo de Análisis	Fig. 66
Standard Curves	Fig. 67
Subsidiary Curves	Fig. 68

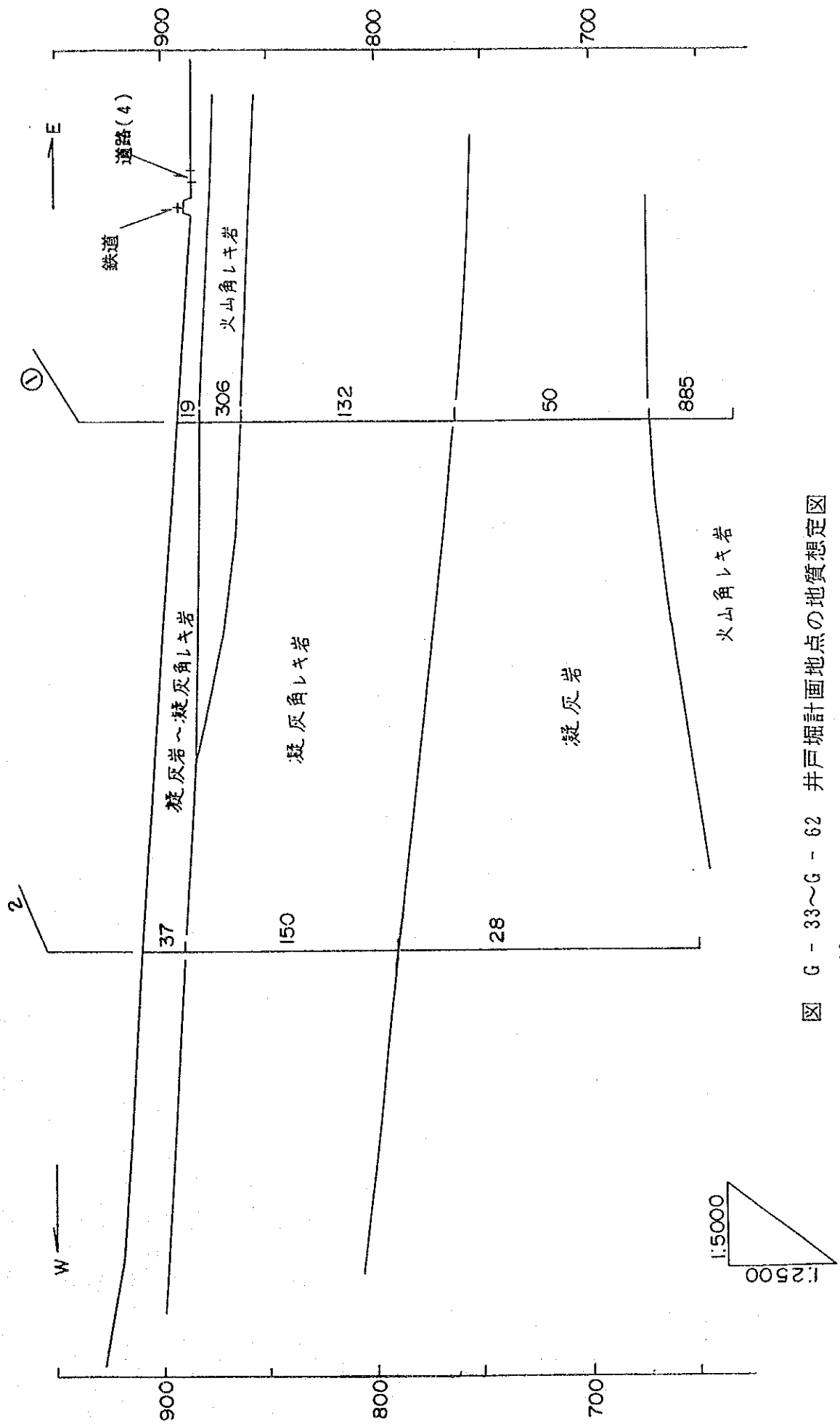


図 G - 33~G - 62 井戸堀計画地点の地質想定図

図 G 33 1. Las Aradas, Ipala

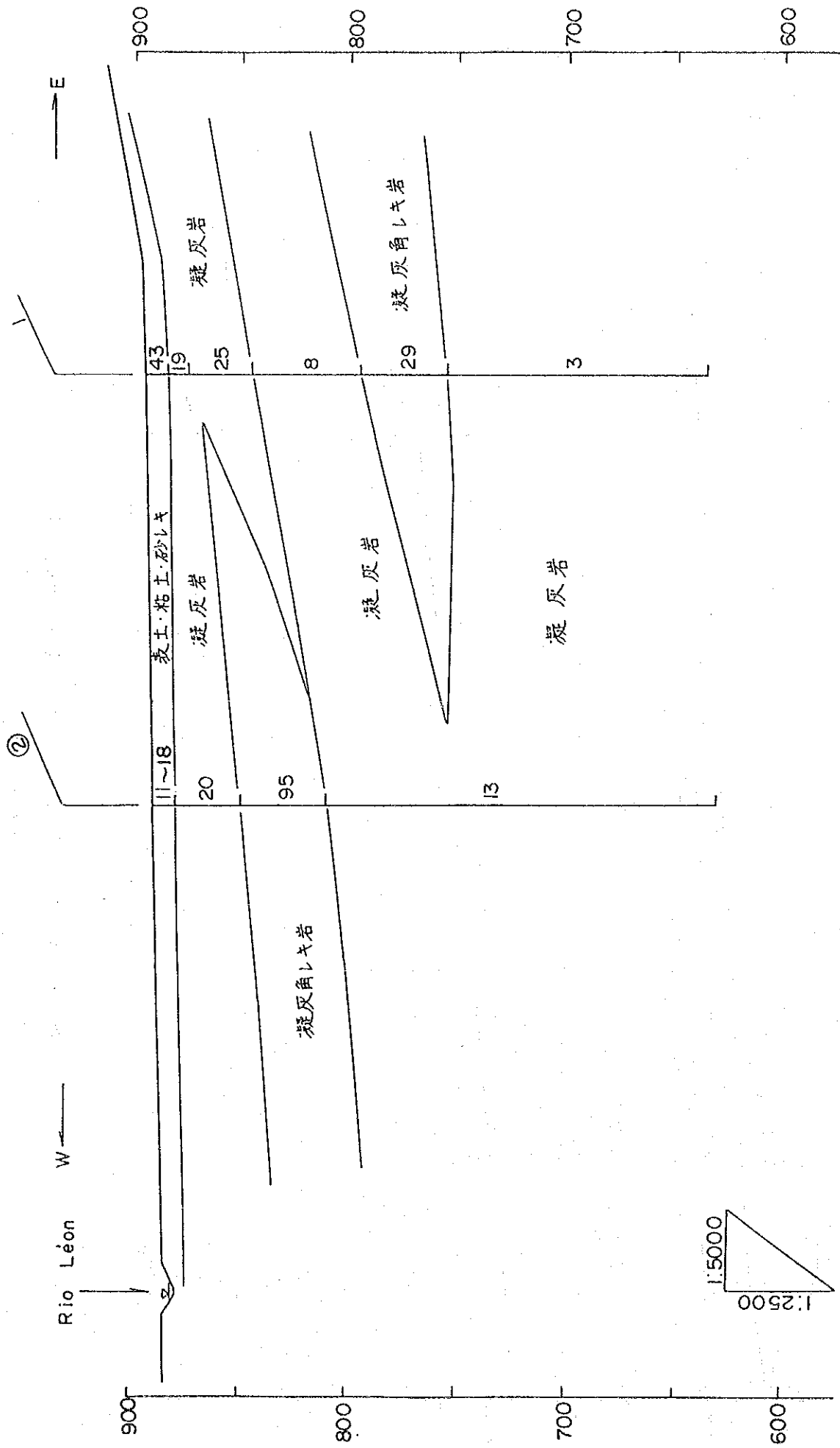


図 G 34 2. La Coronada

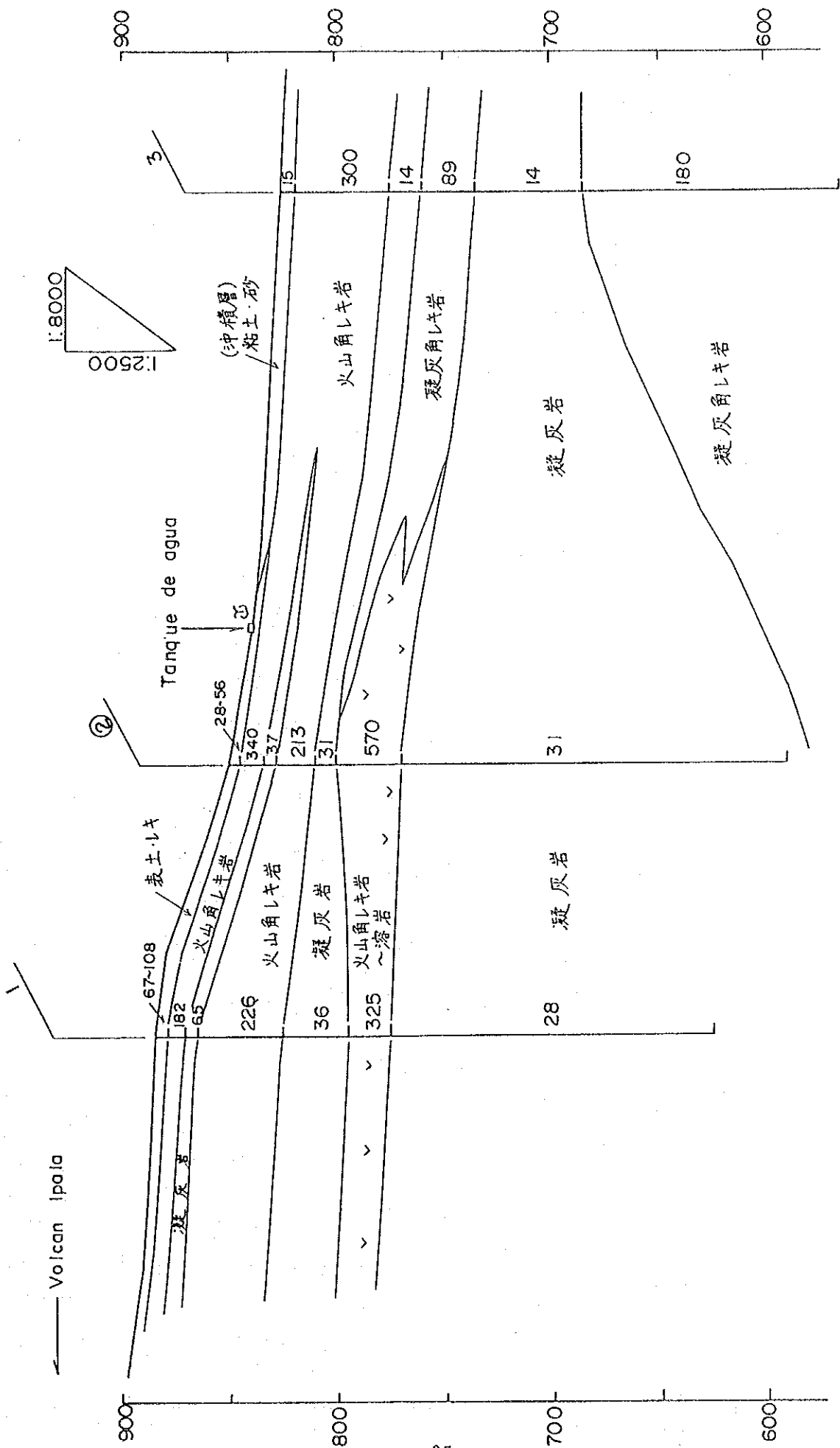


図 G 35 3. La Esperanza

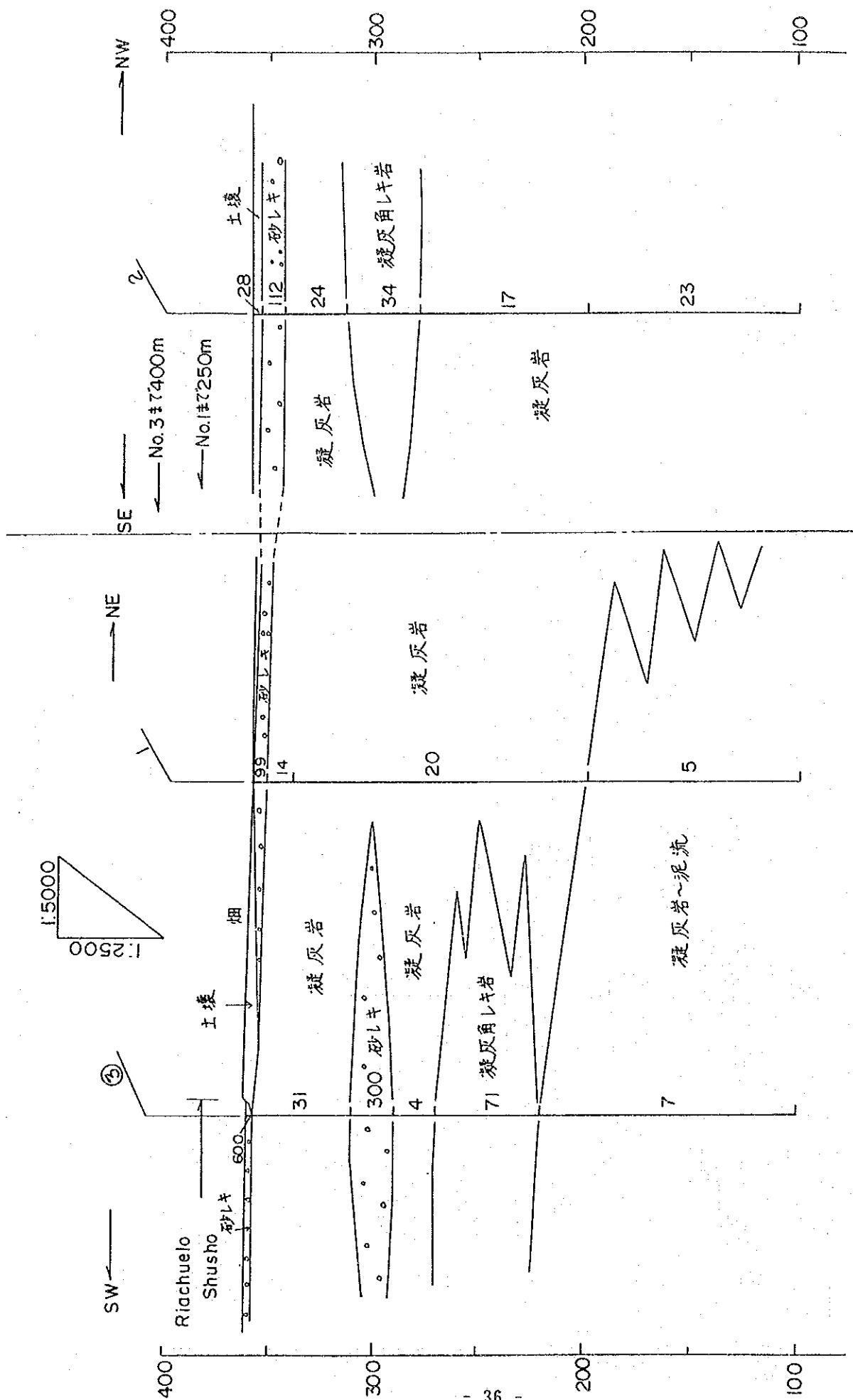


図 G 36 4. Shusho Abajo

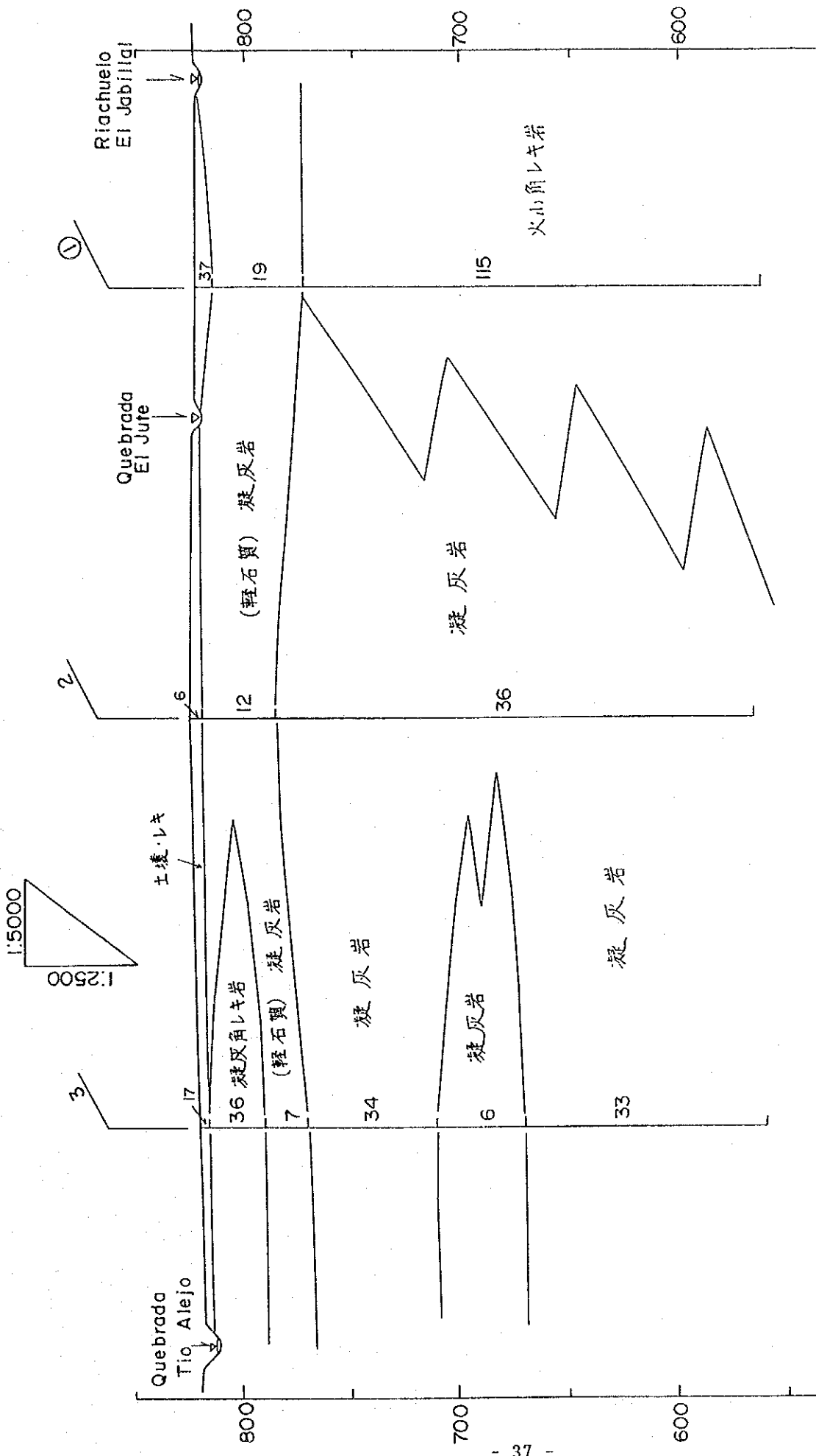


図 G 37 5. Sansare I

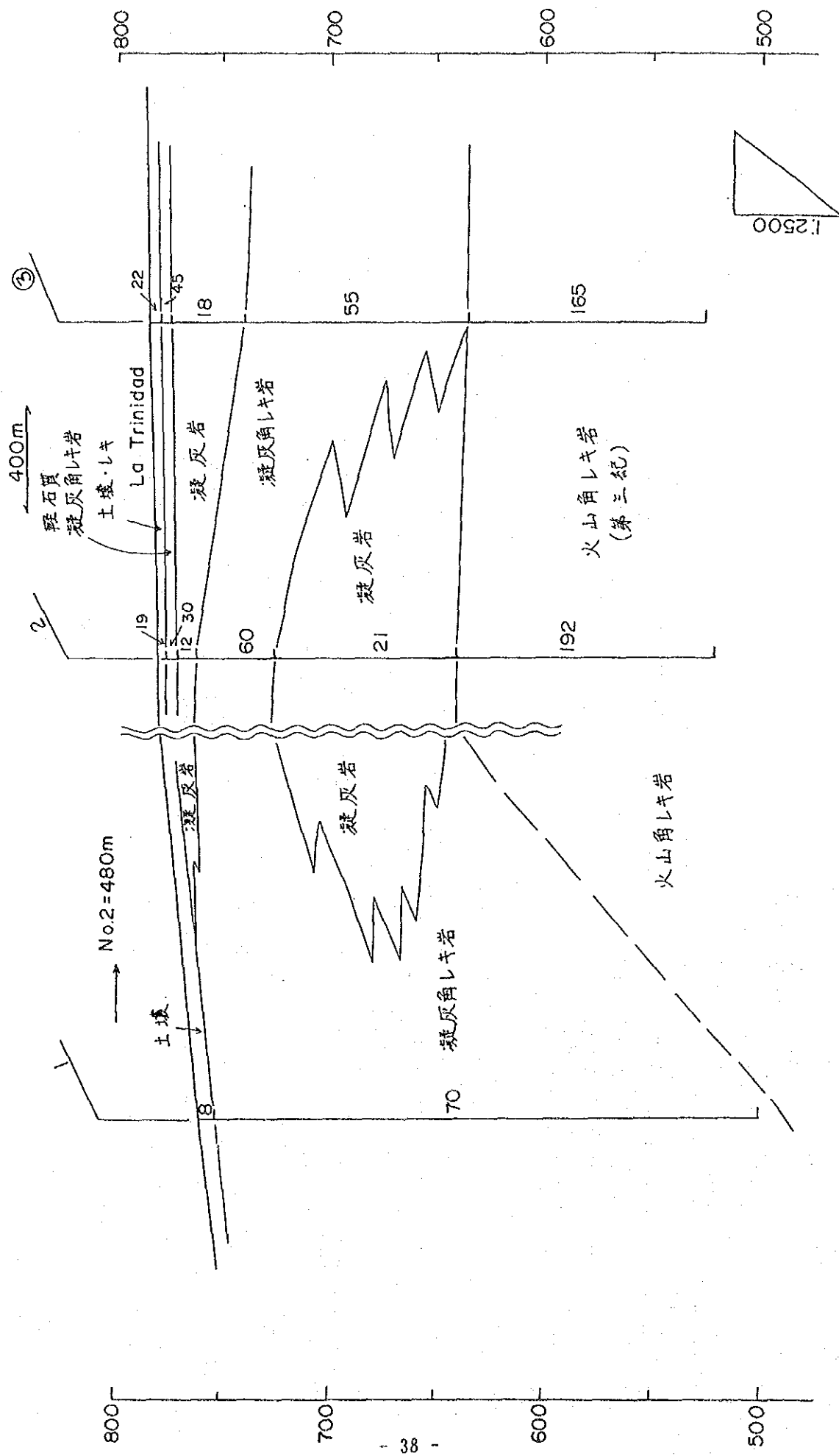


図 G 38 6. Sansare II

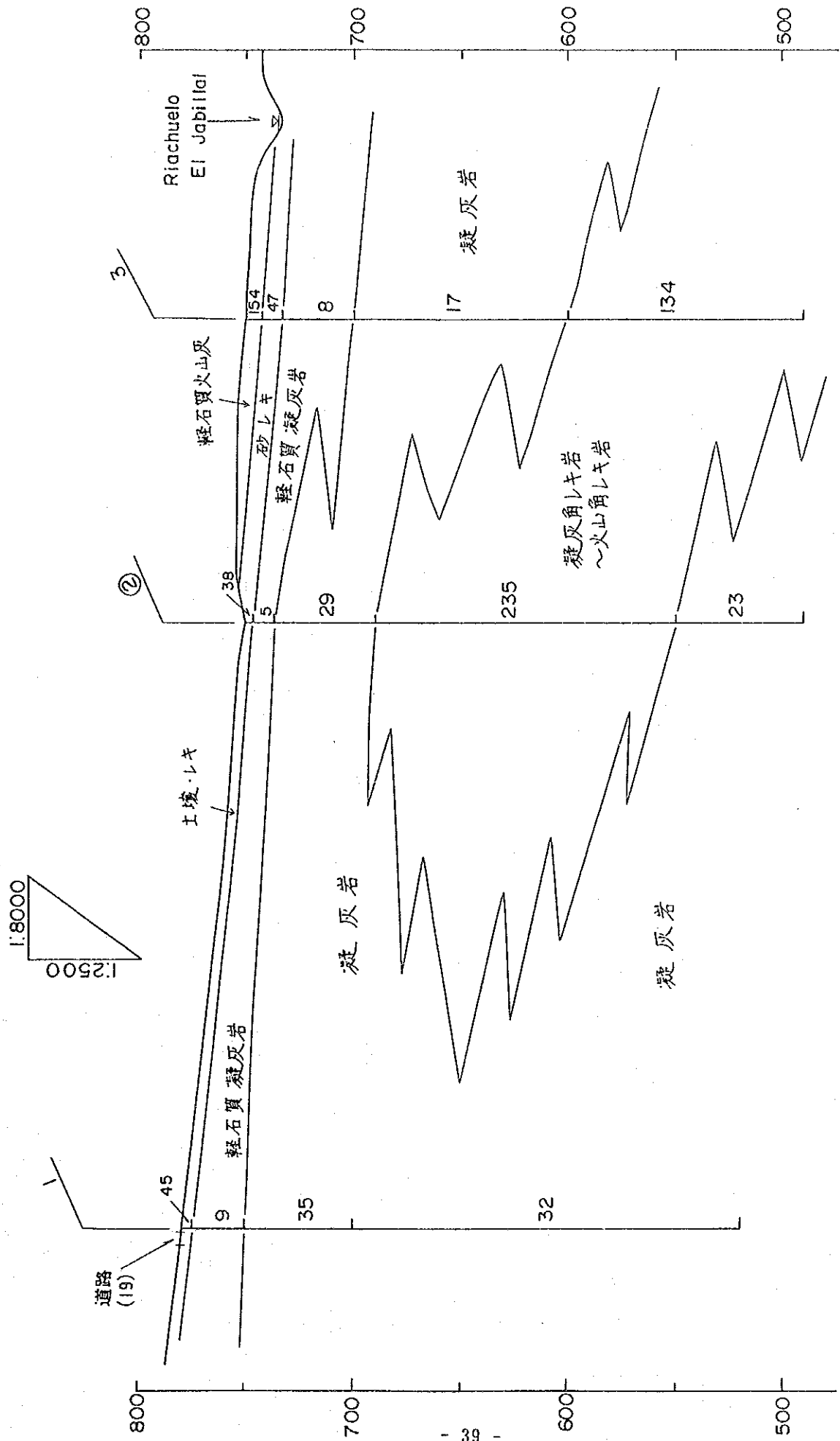


図 G 39 7. Los Cerritos

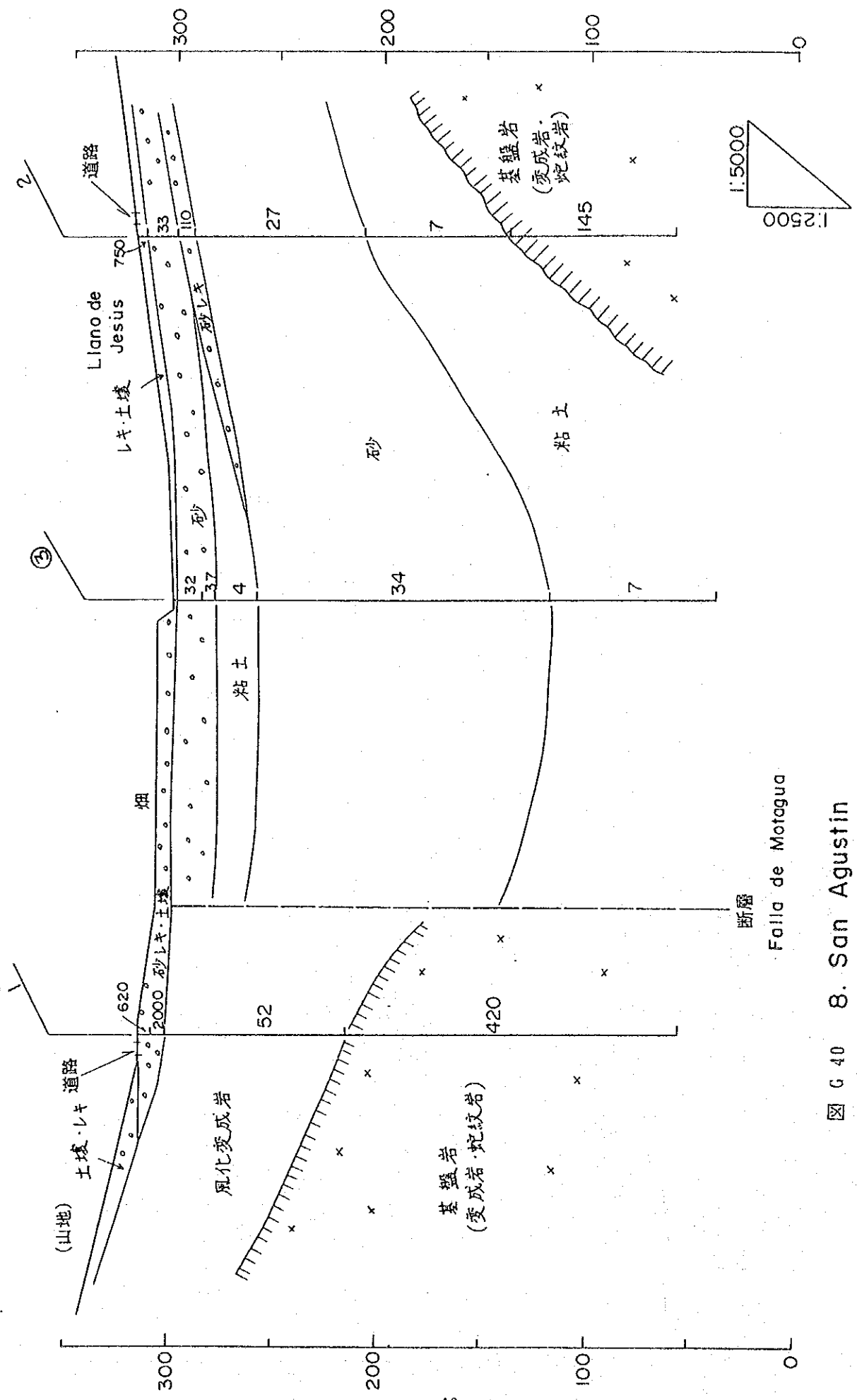
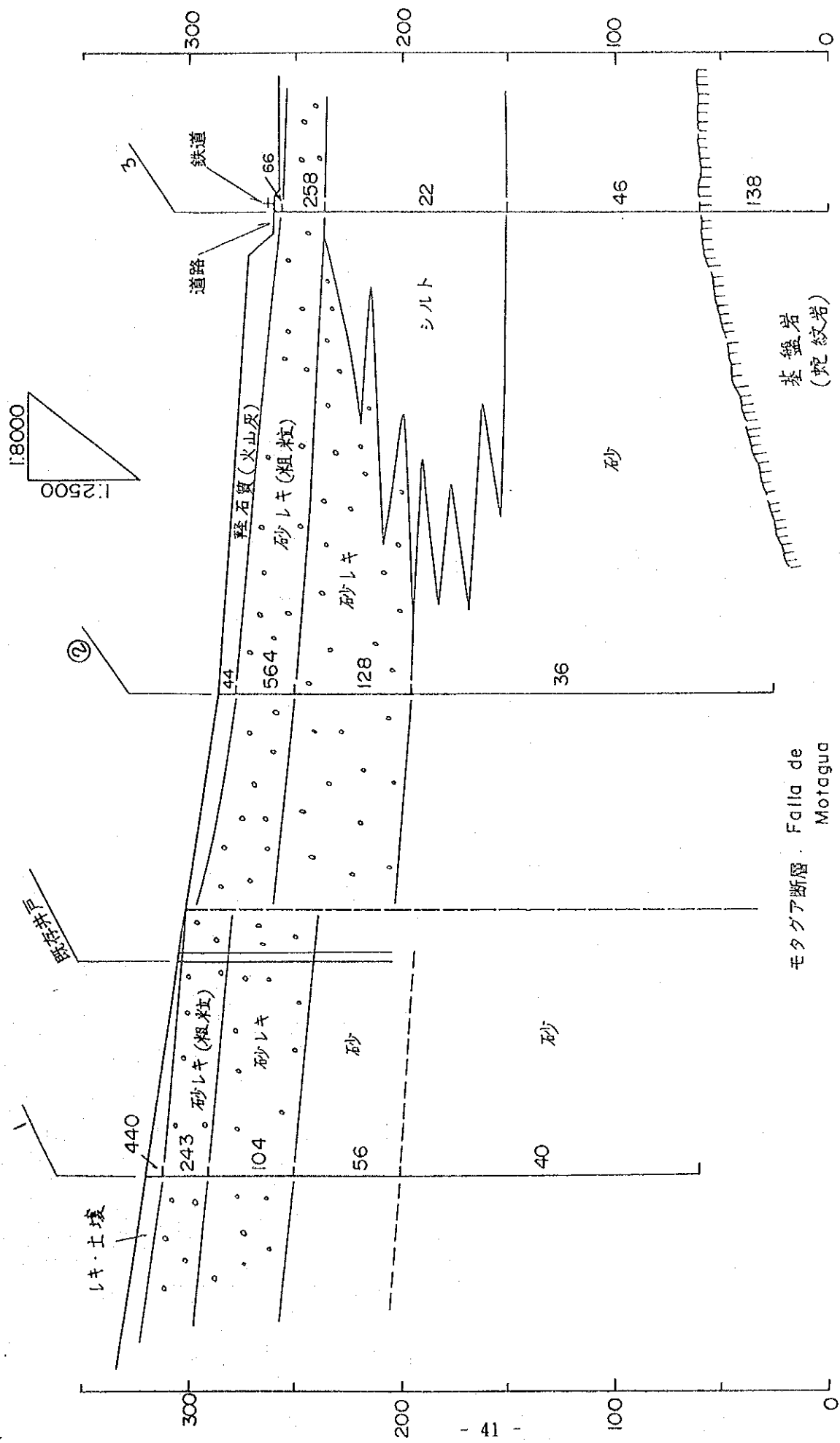


图 G 40 8. San Agustín



モタグア断層 Falla de Motagua

図 G 41 9. El Tintero

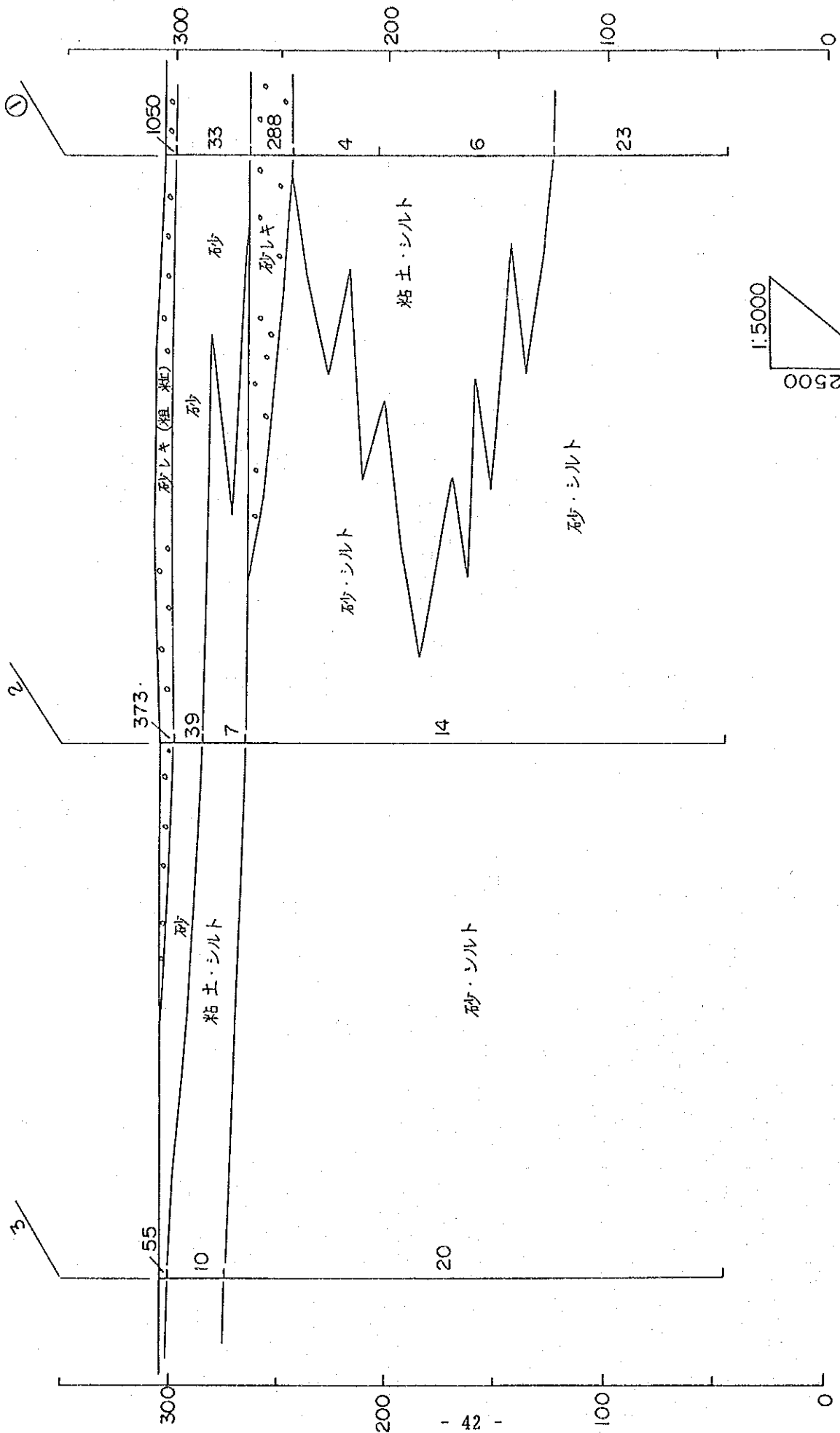


図 G 42 10. Las Ovejas

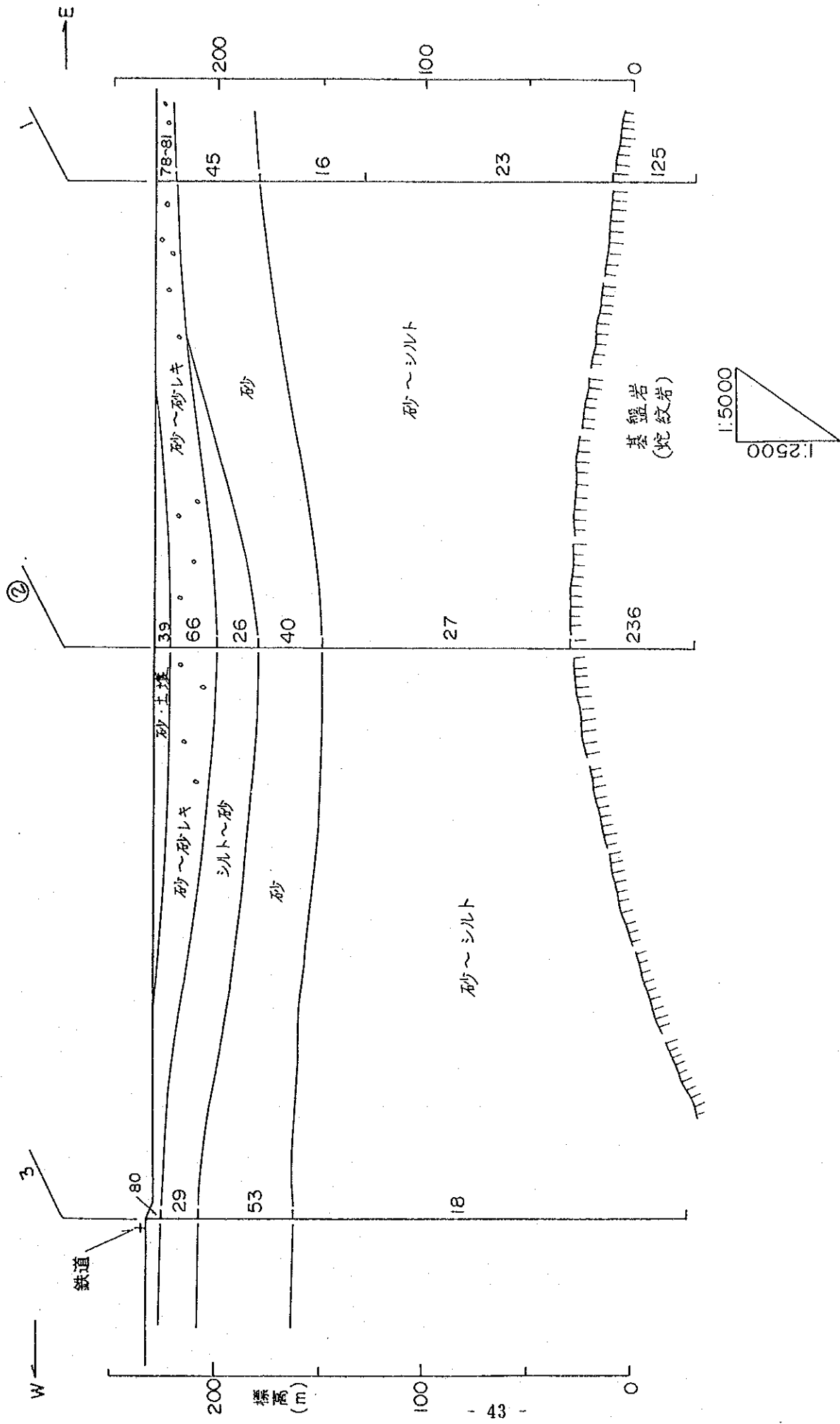


図 G 43 11. Lo de China

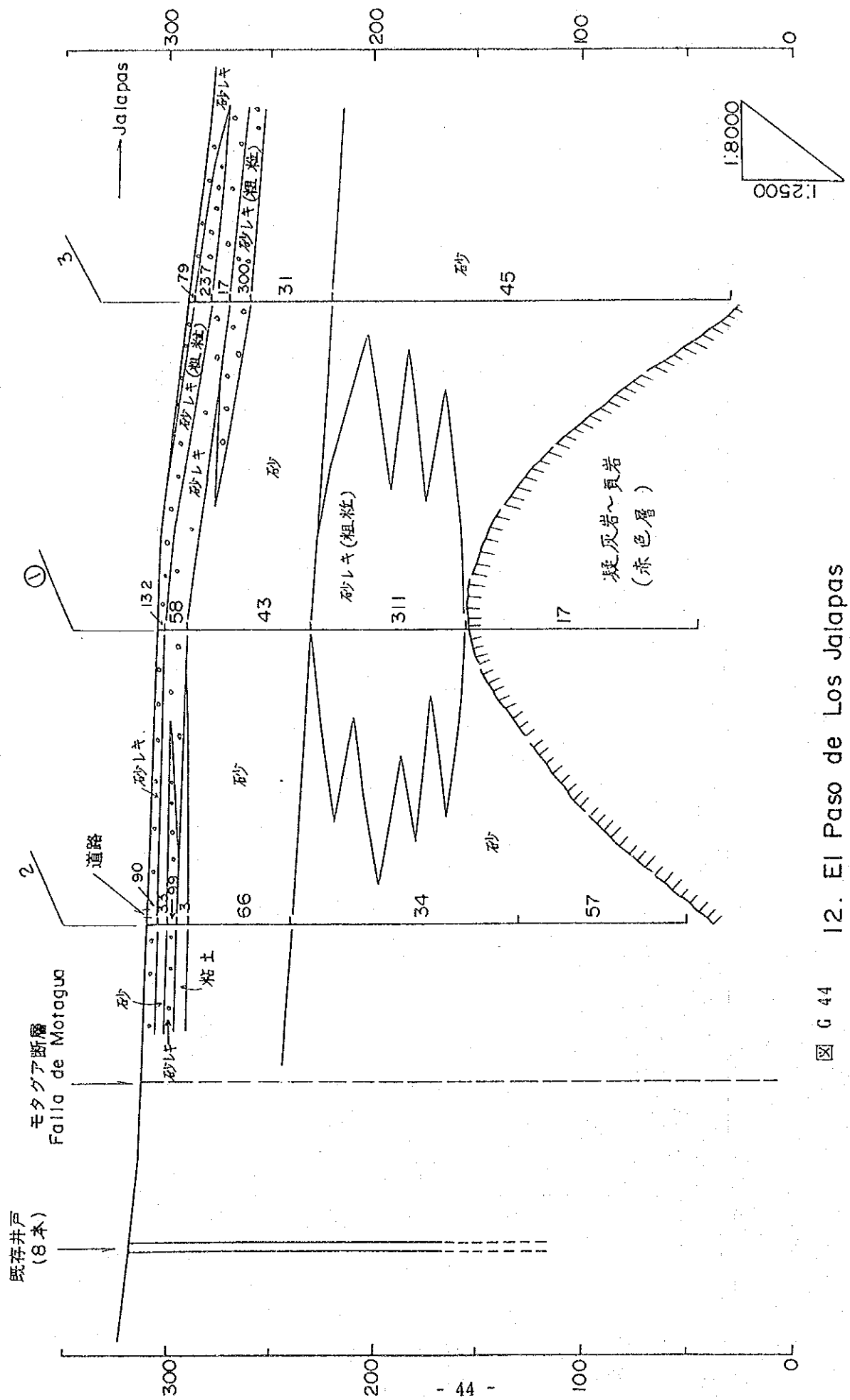


図 G 44 12. El Paso de Los Jalapas

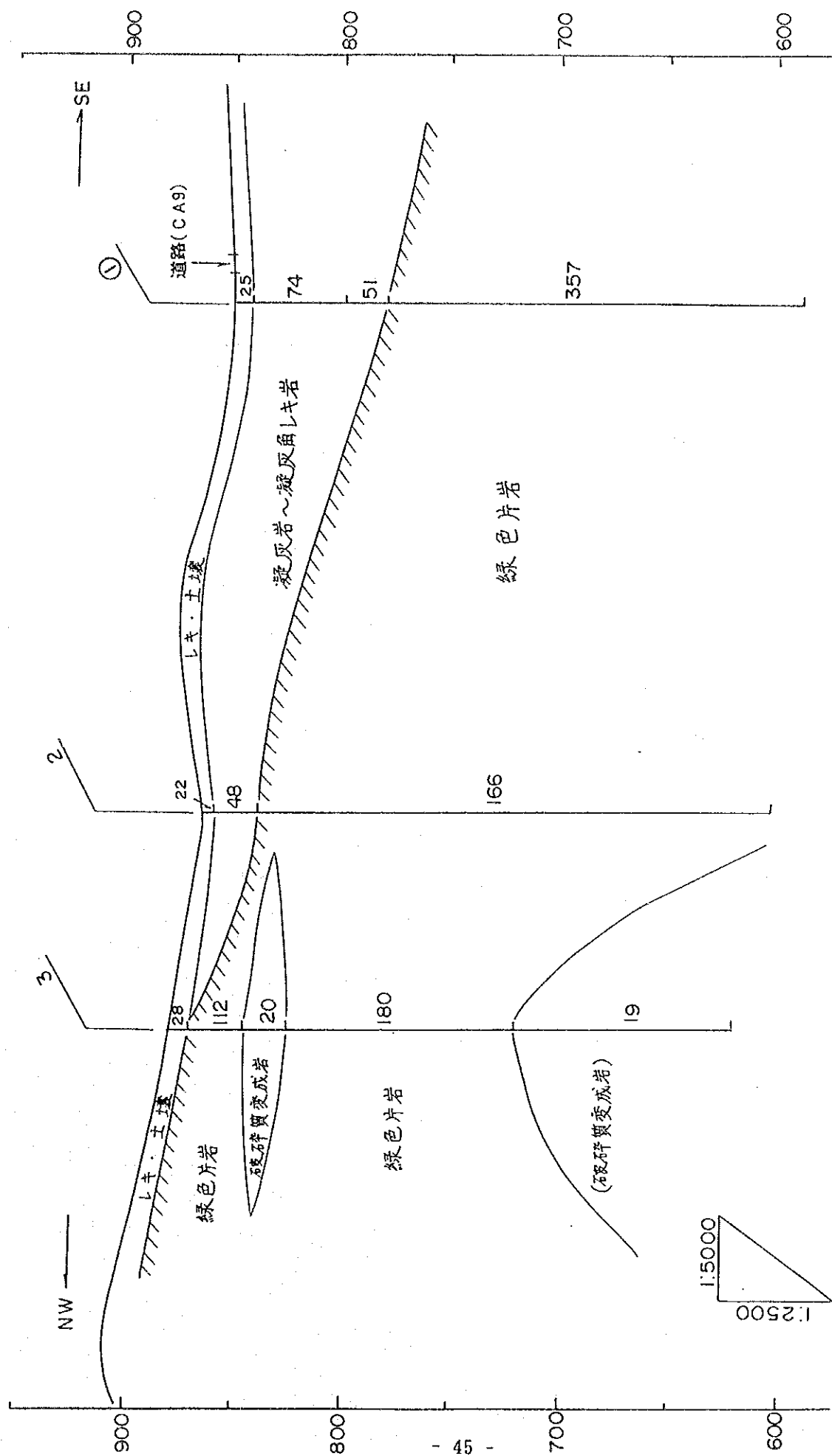


図 G 45 13. El Matazano (El Upayón)

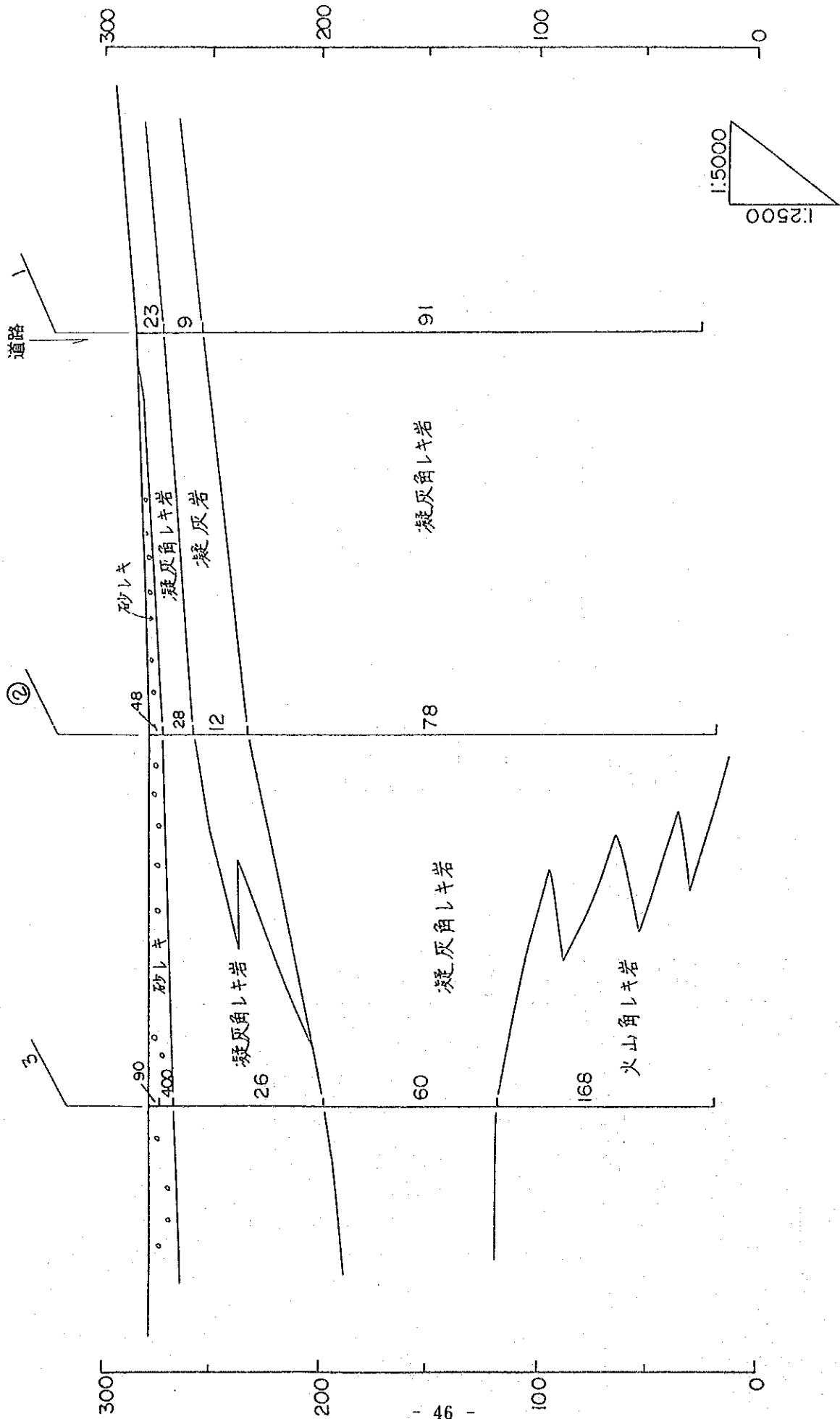


図 G 46 14. E1 Maguey

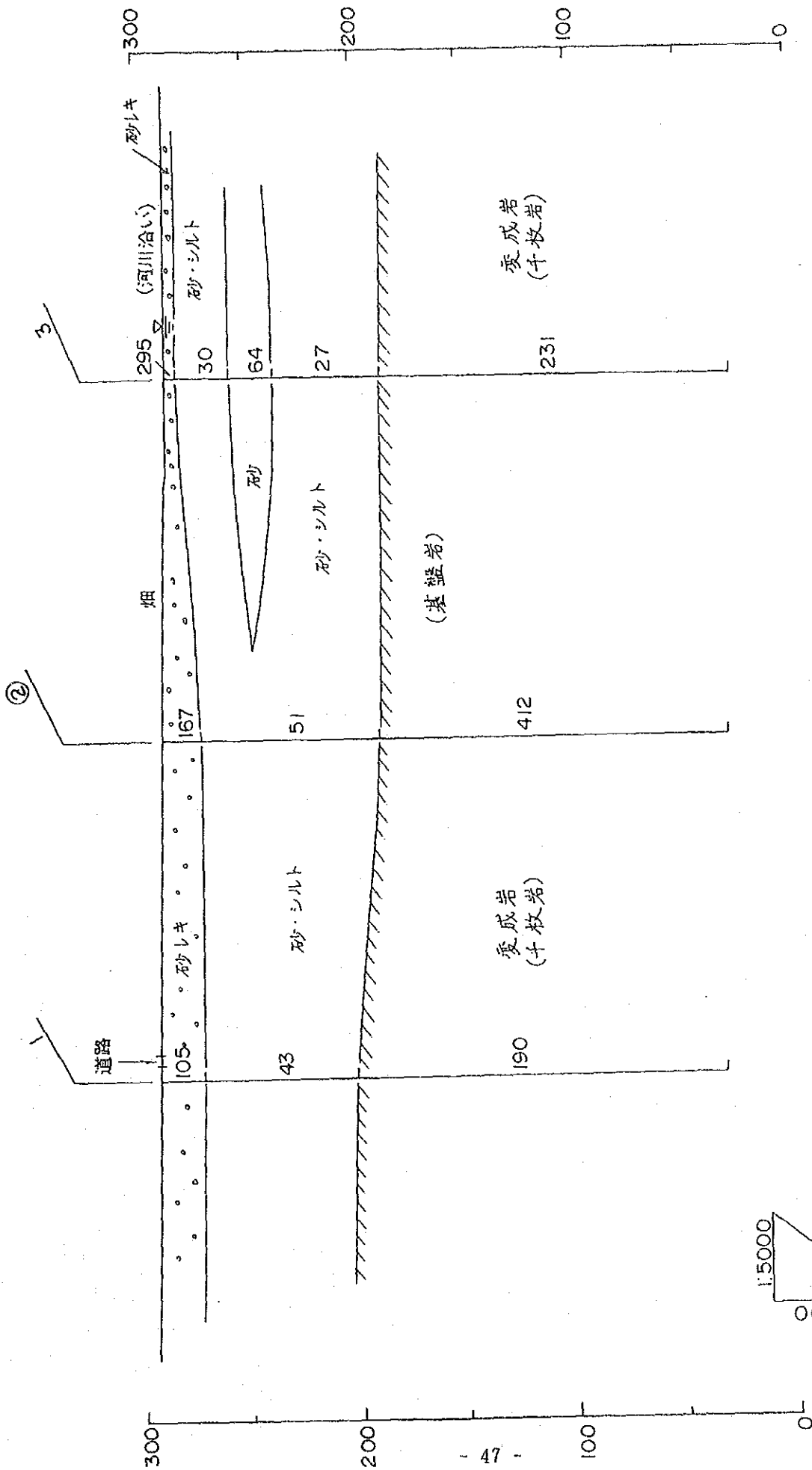


図 G 47 15. San Vicente

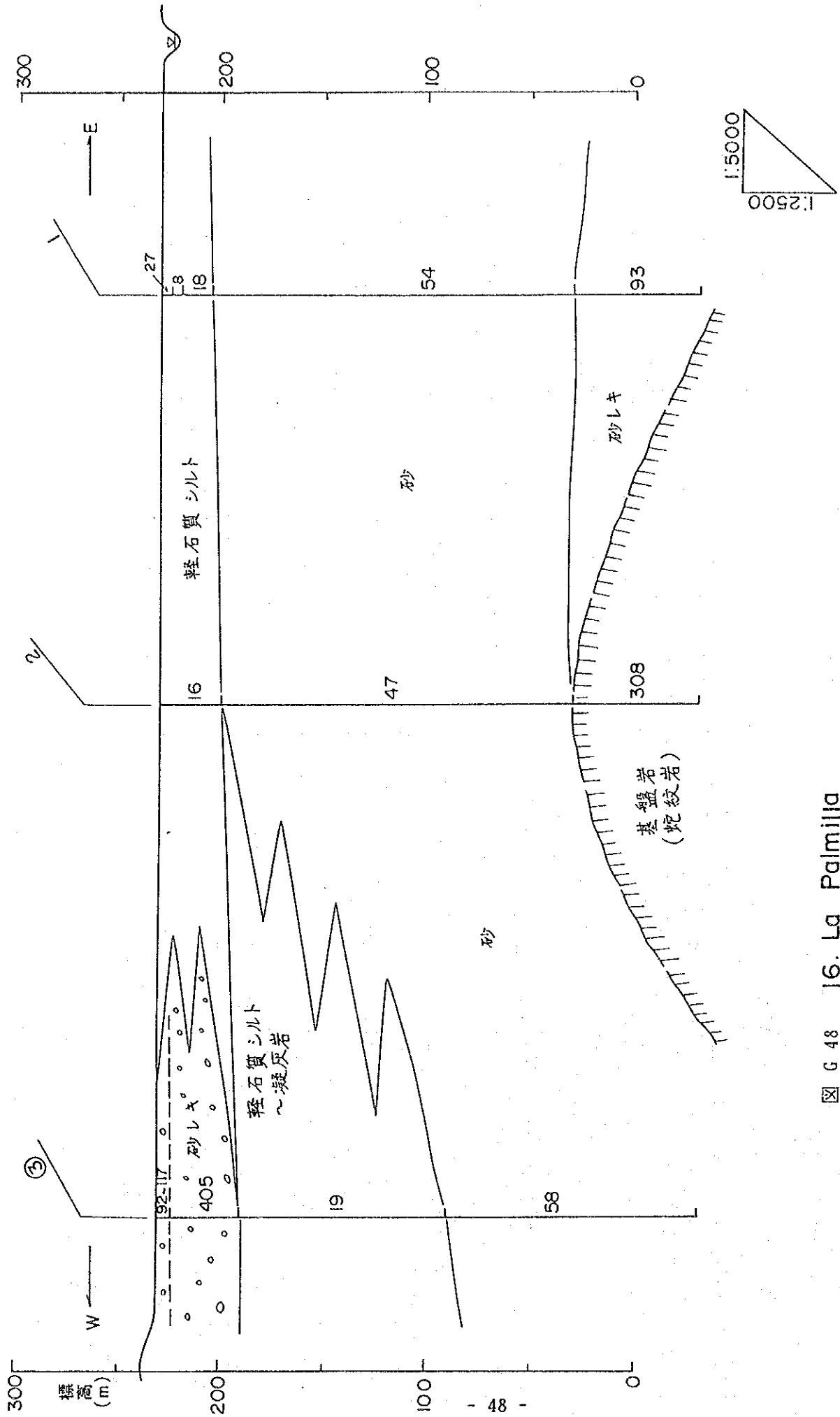


図 G 48 16. La Palmilla

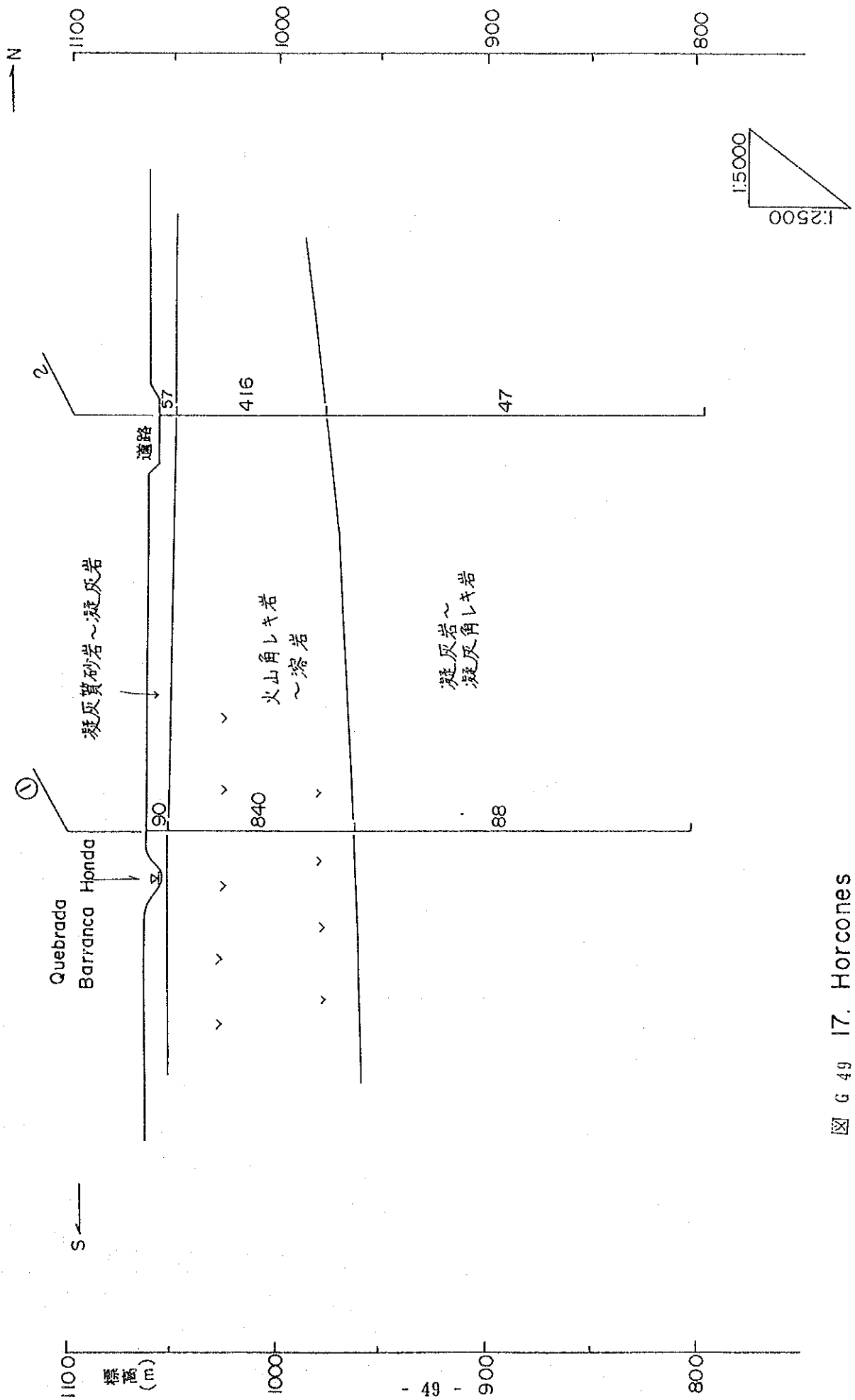


図 49 17. Horcones

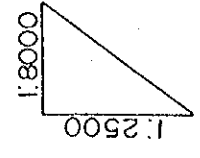
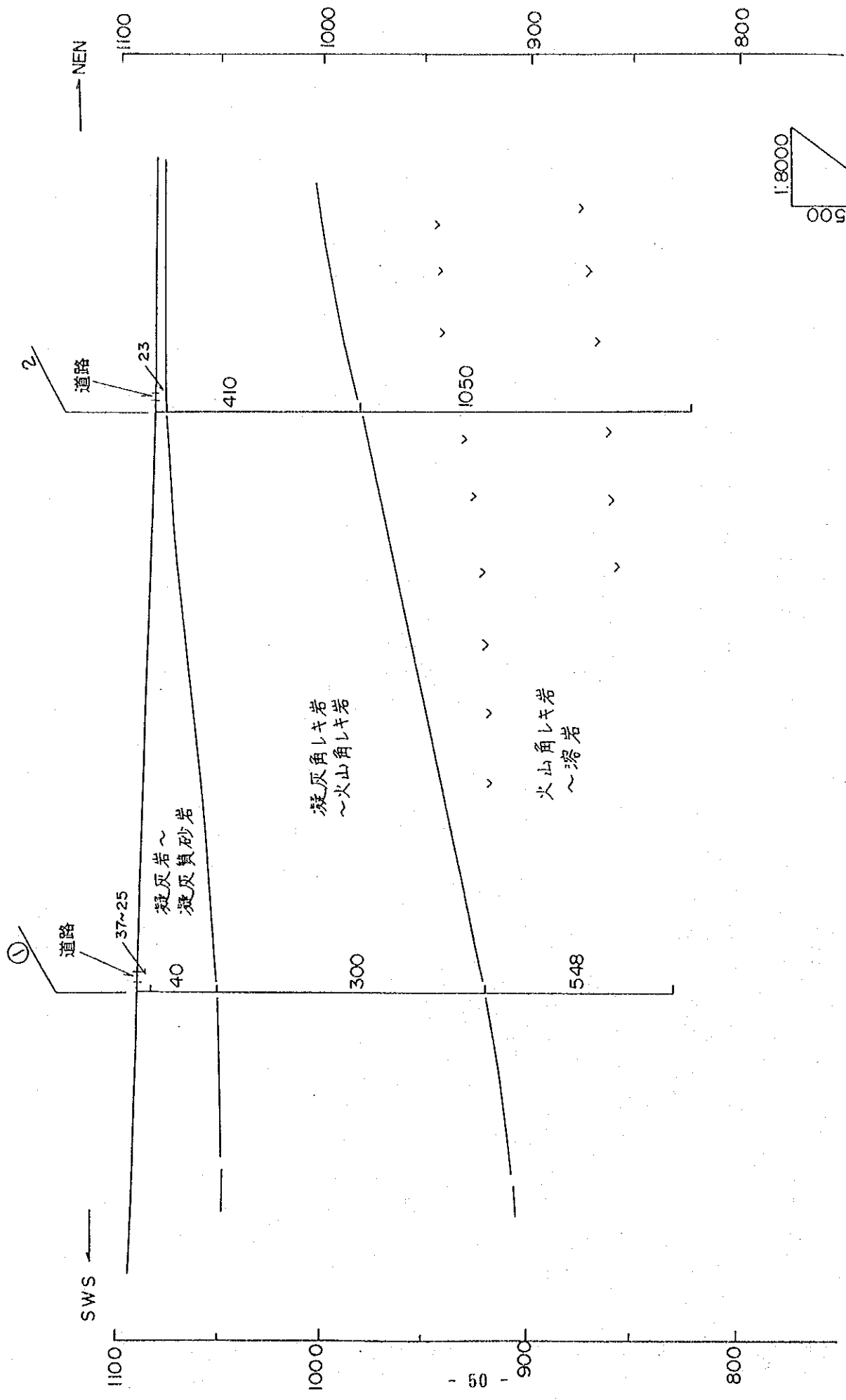


図 G 50 18. La Arada

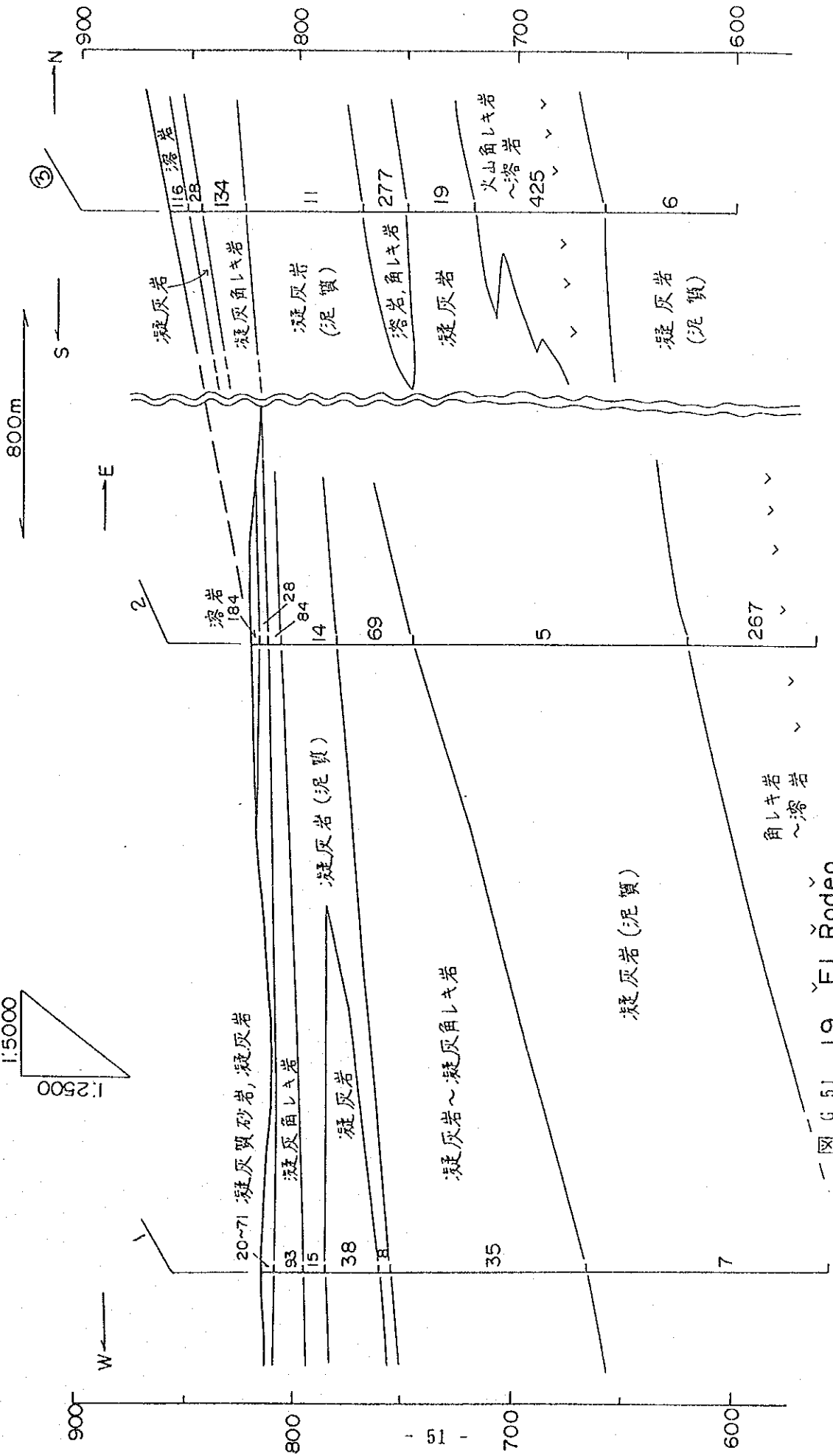
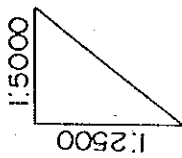


図 G 51 19. El Rodeo

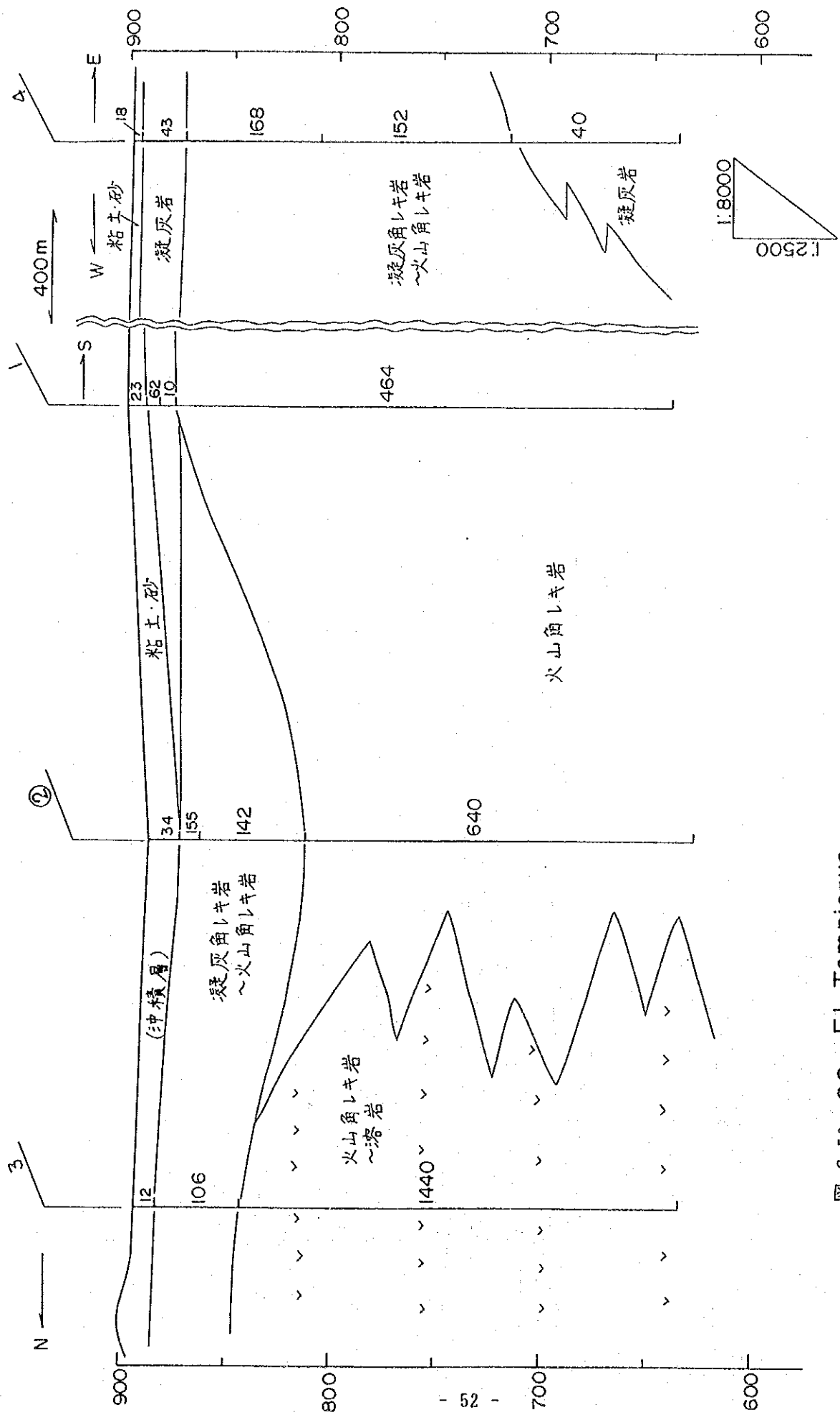


図 G 52 20. El Tempisque

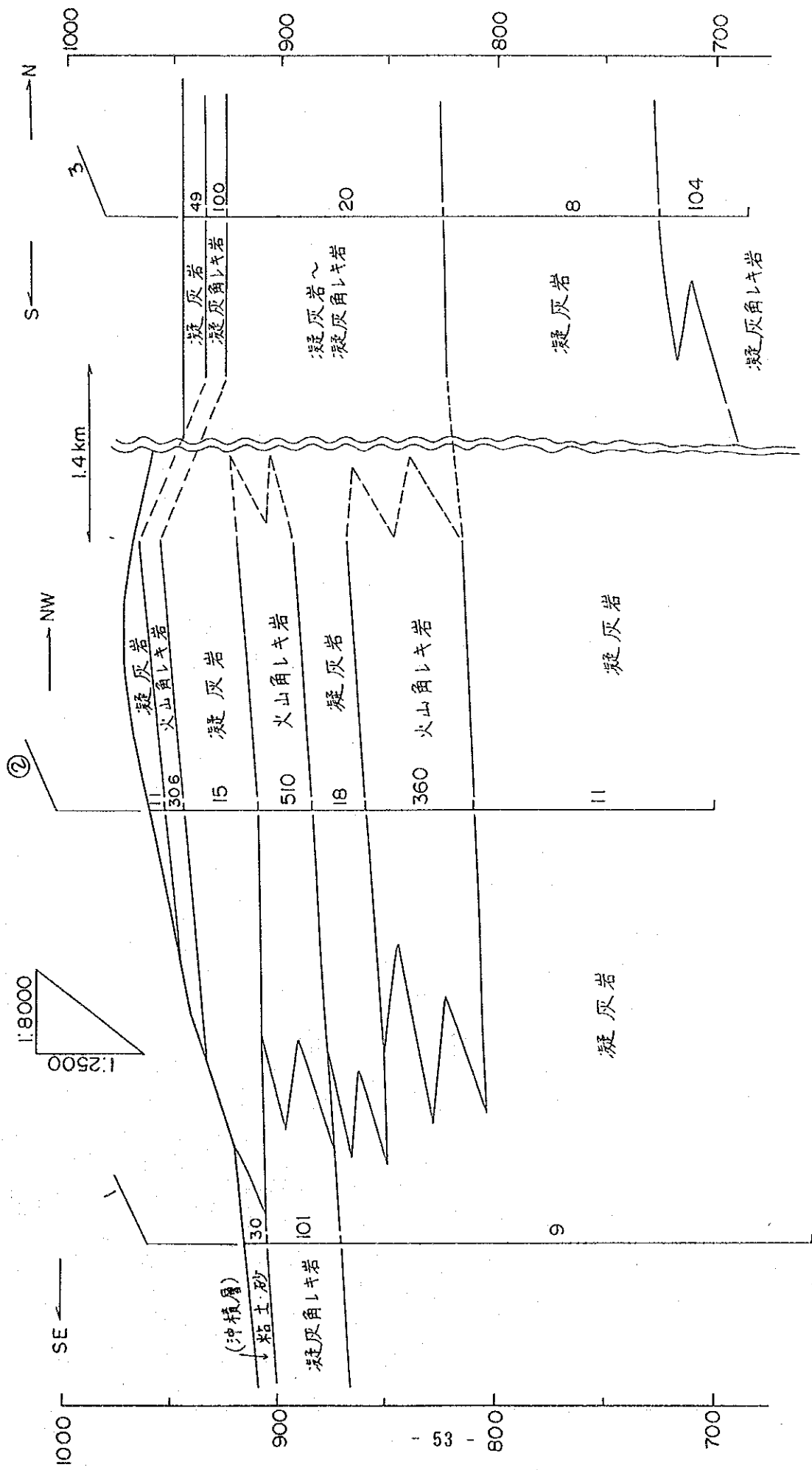


図 G 53 21. El Trapiche

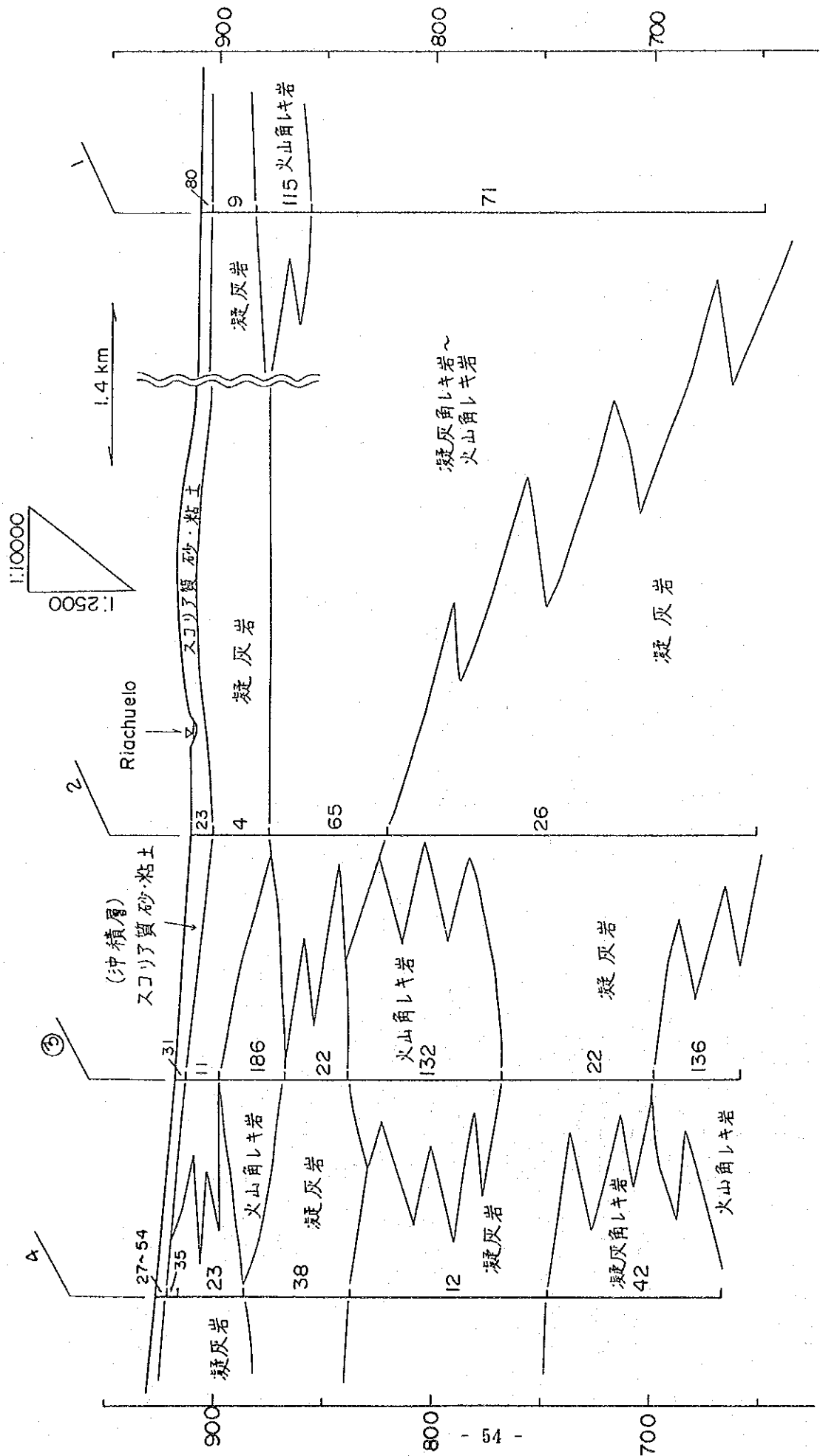


図 G 54 22. El Jicaro

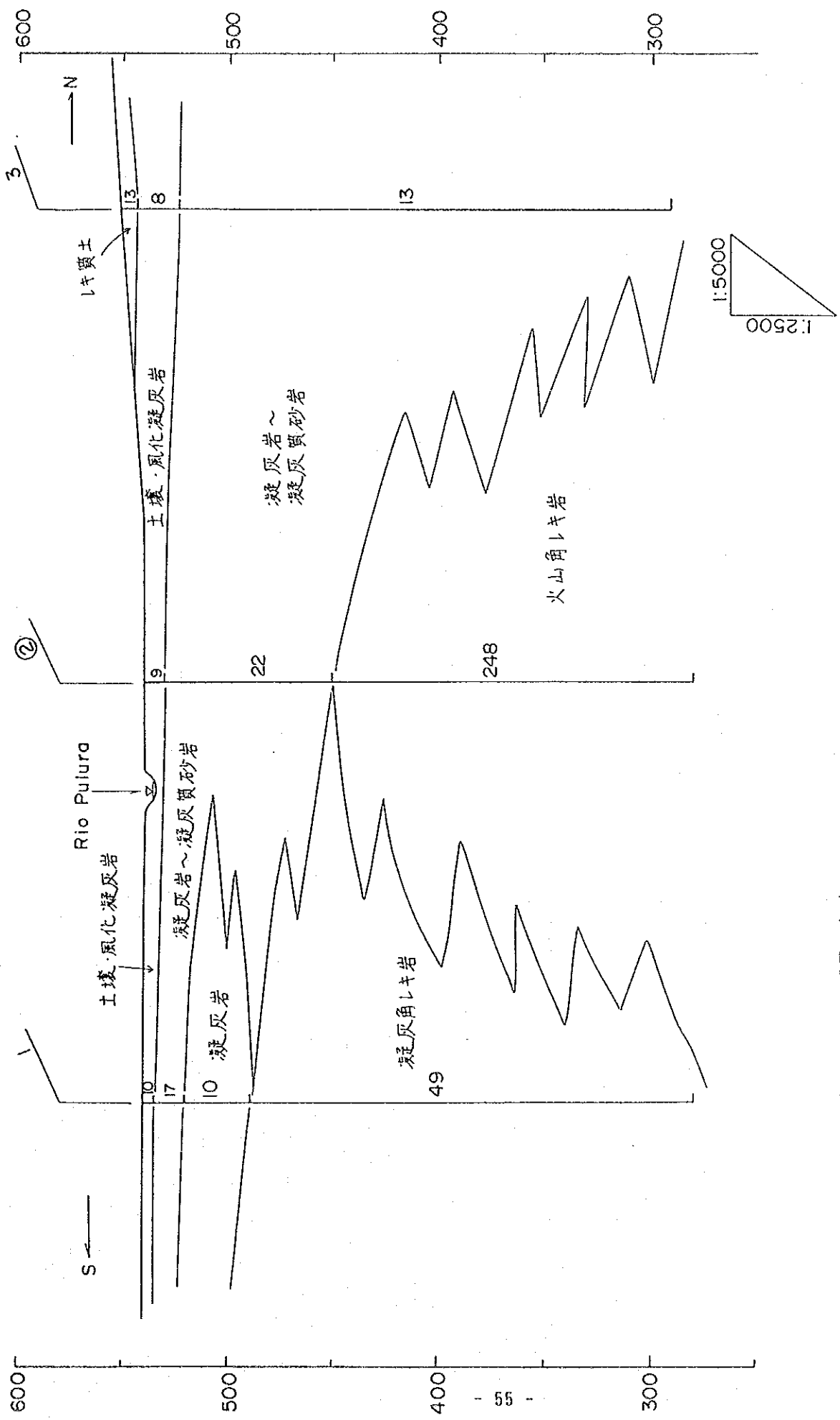


図 G 55 23. Jalapatagua

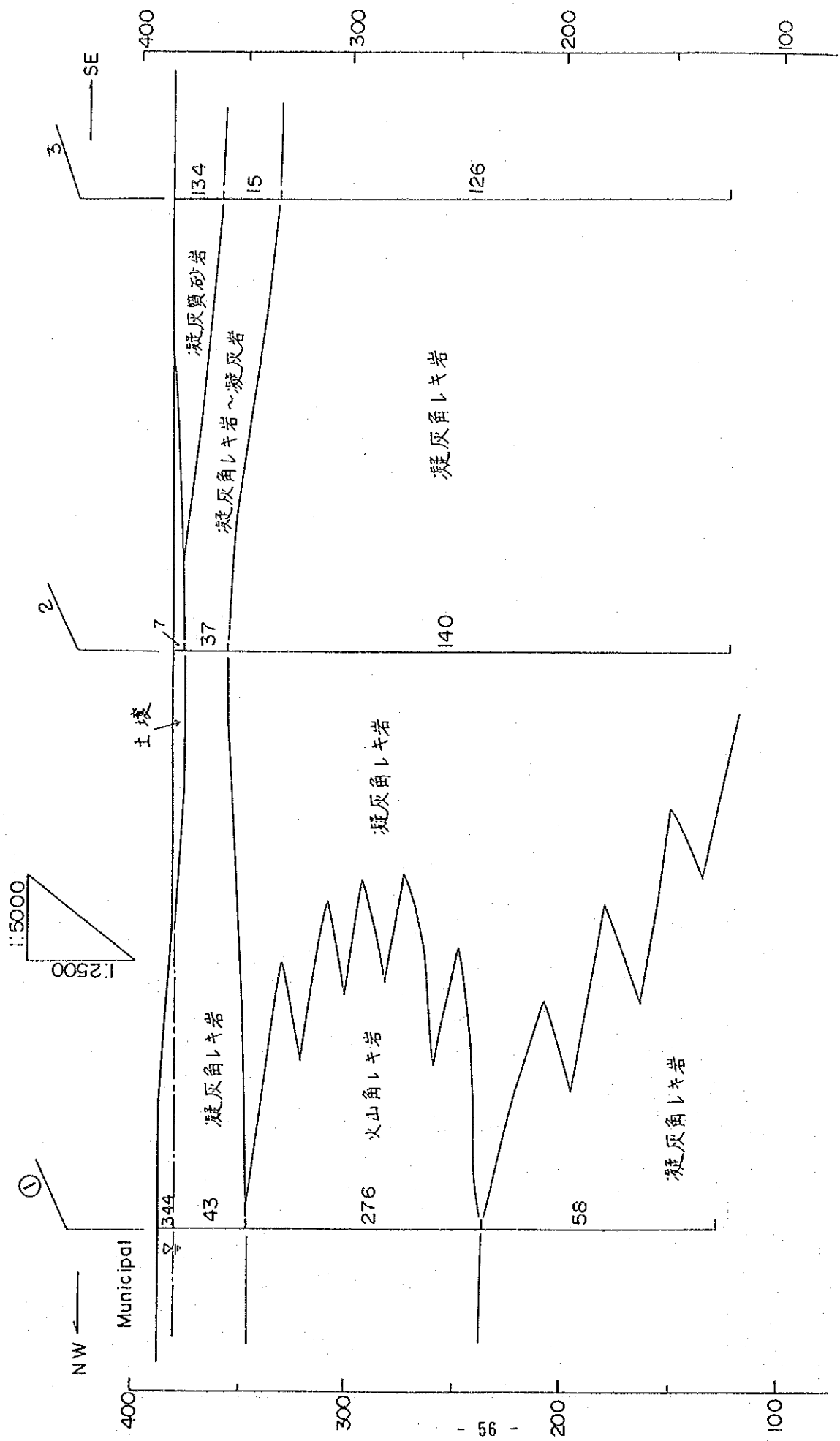


図 G 56 24. El Coco

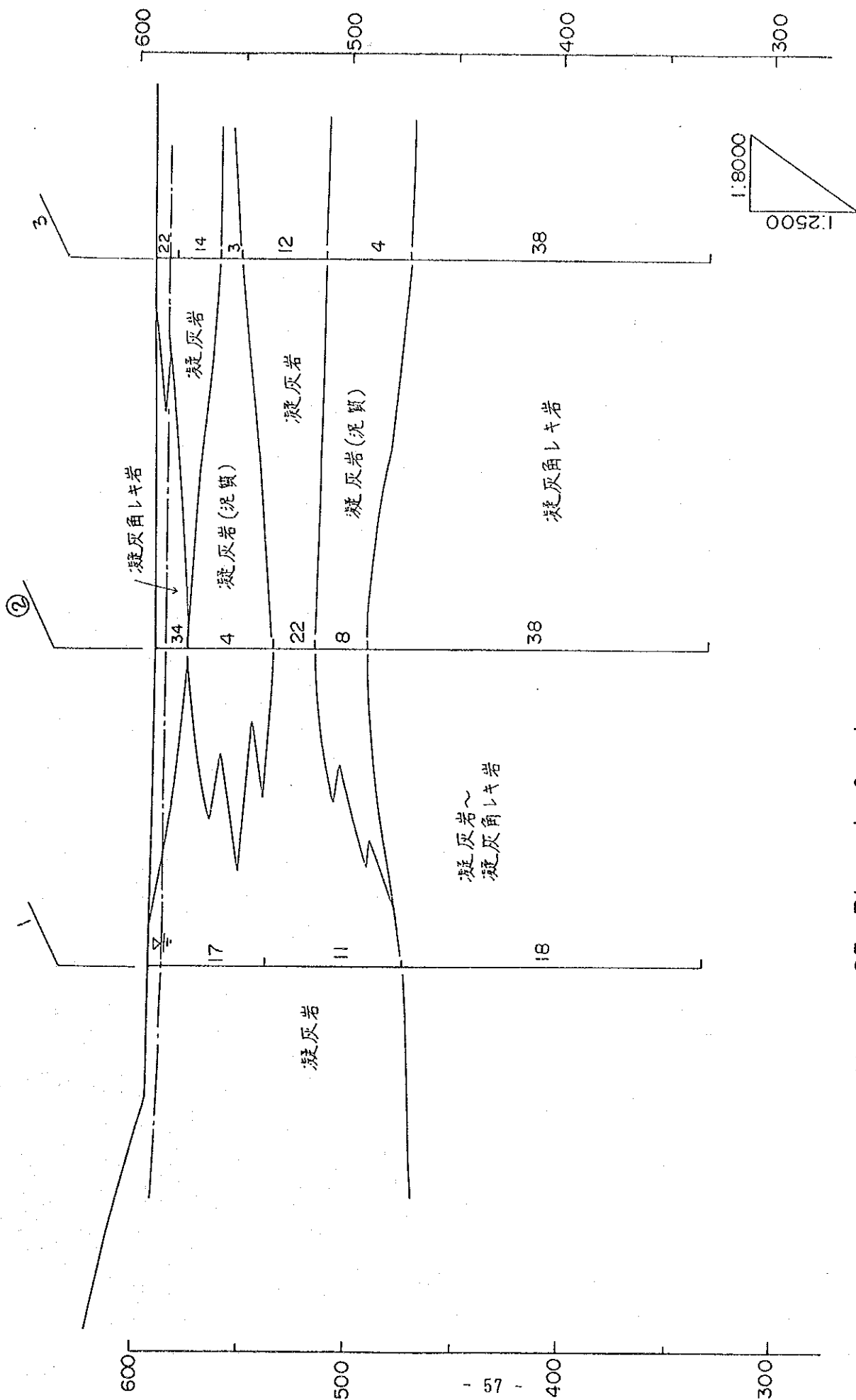


図 G 57 25. Playa de Coyol

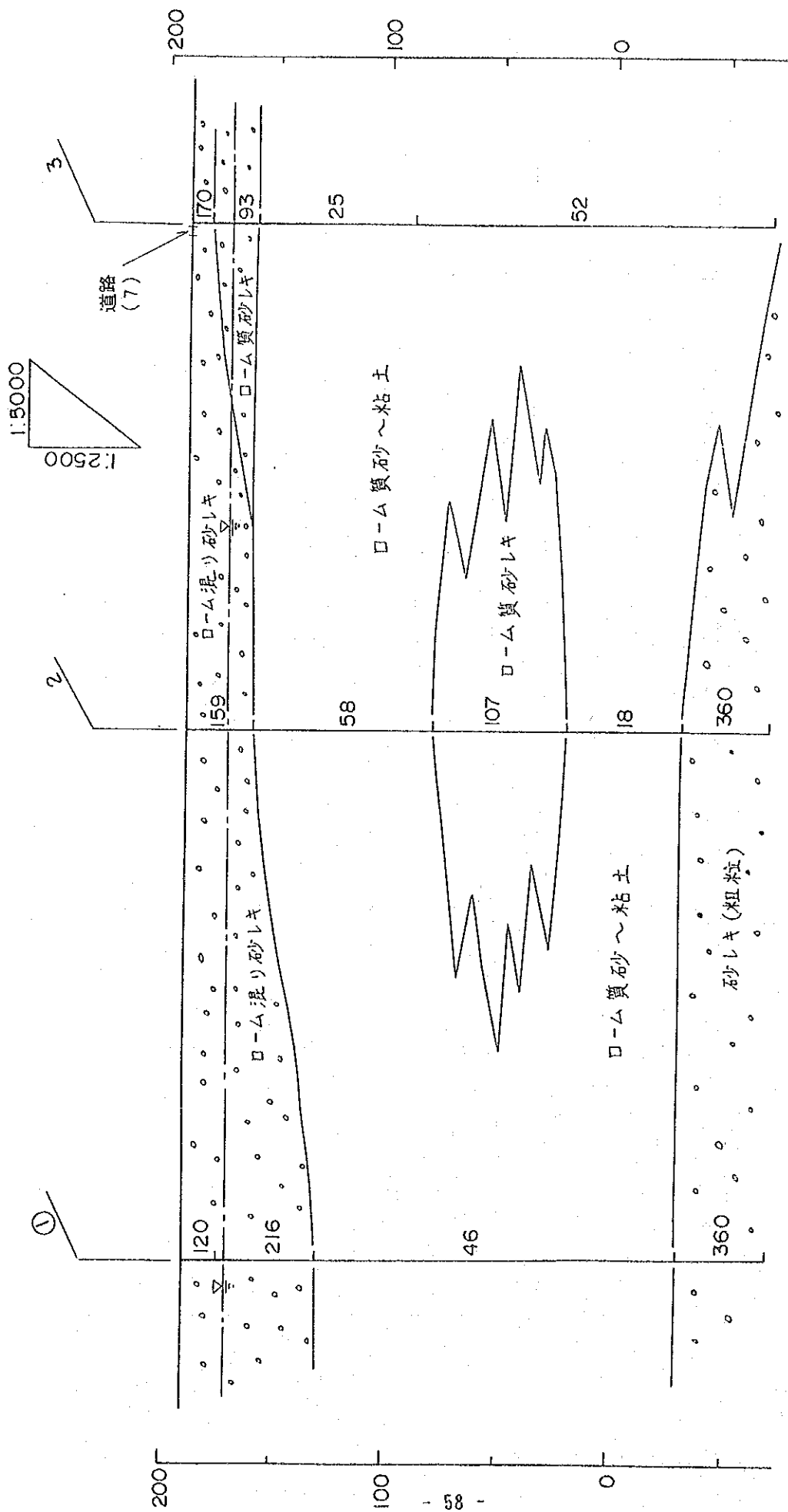


図 G 58 26 Ujuxtales, Chiquimulilla

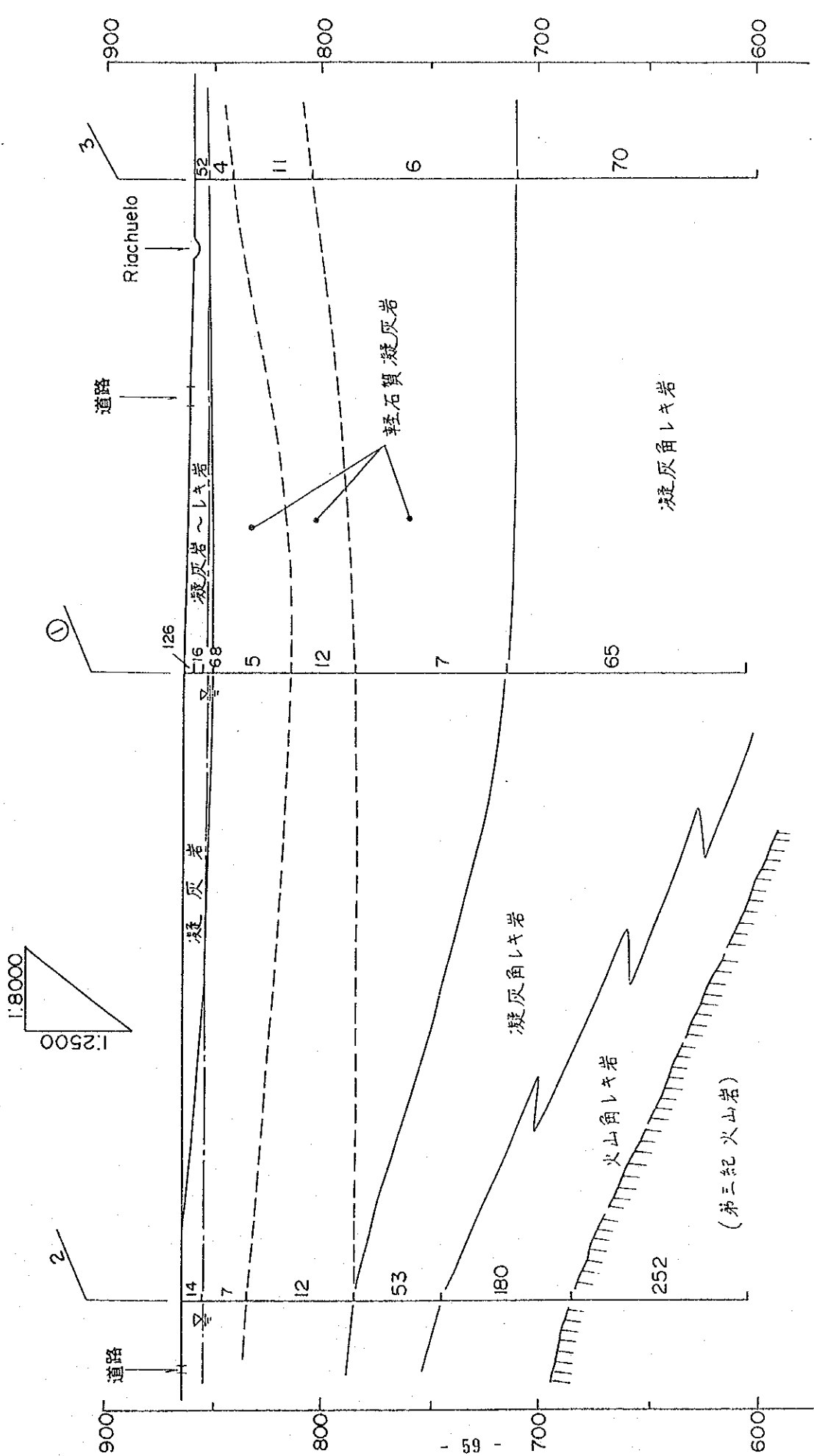


図 G 59 27. Trancas I

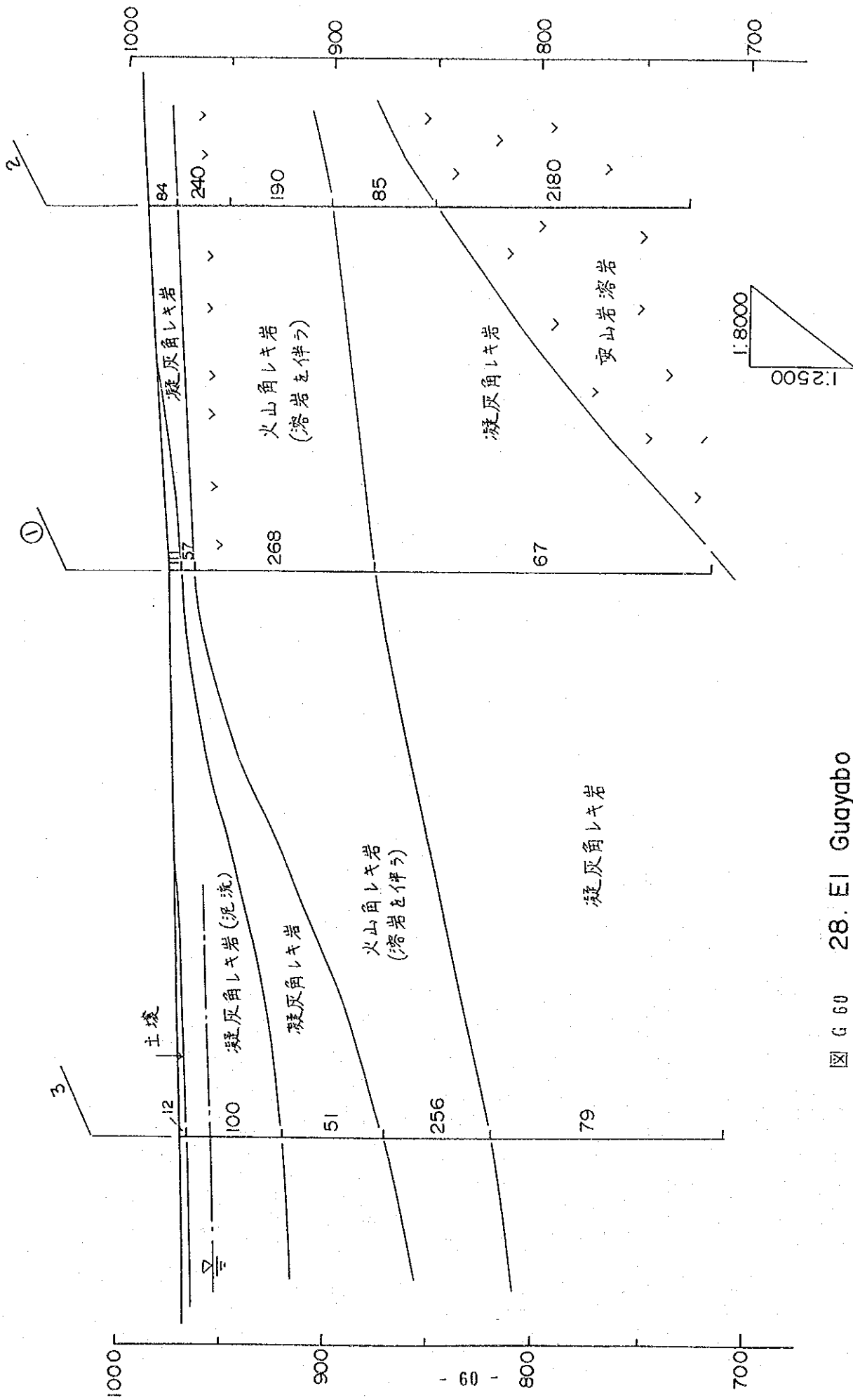


図 G 60 28. El Guayabo

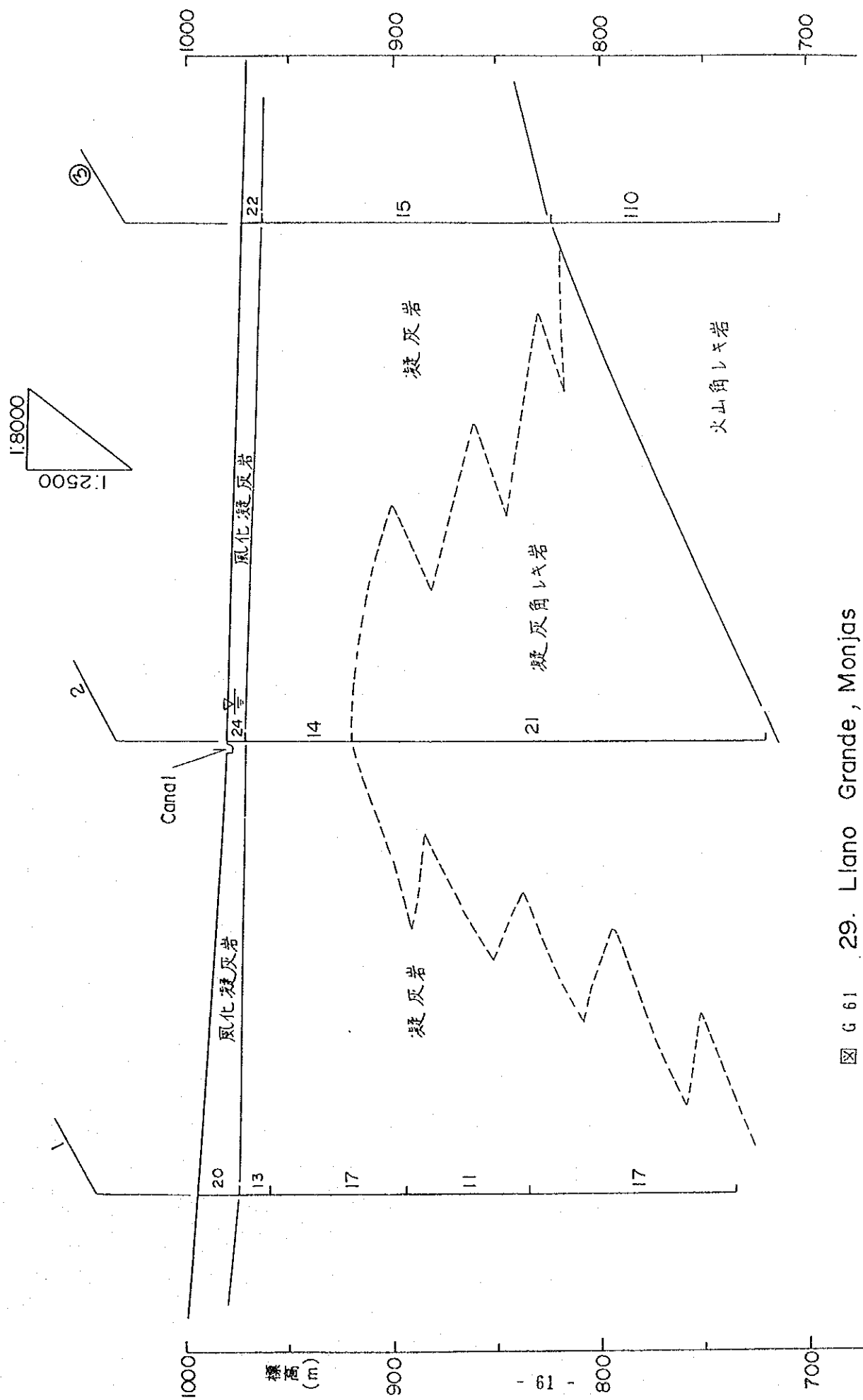


図 G 61 29. Llano Grande, Monjas

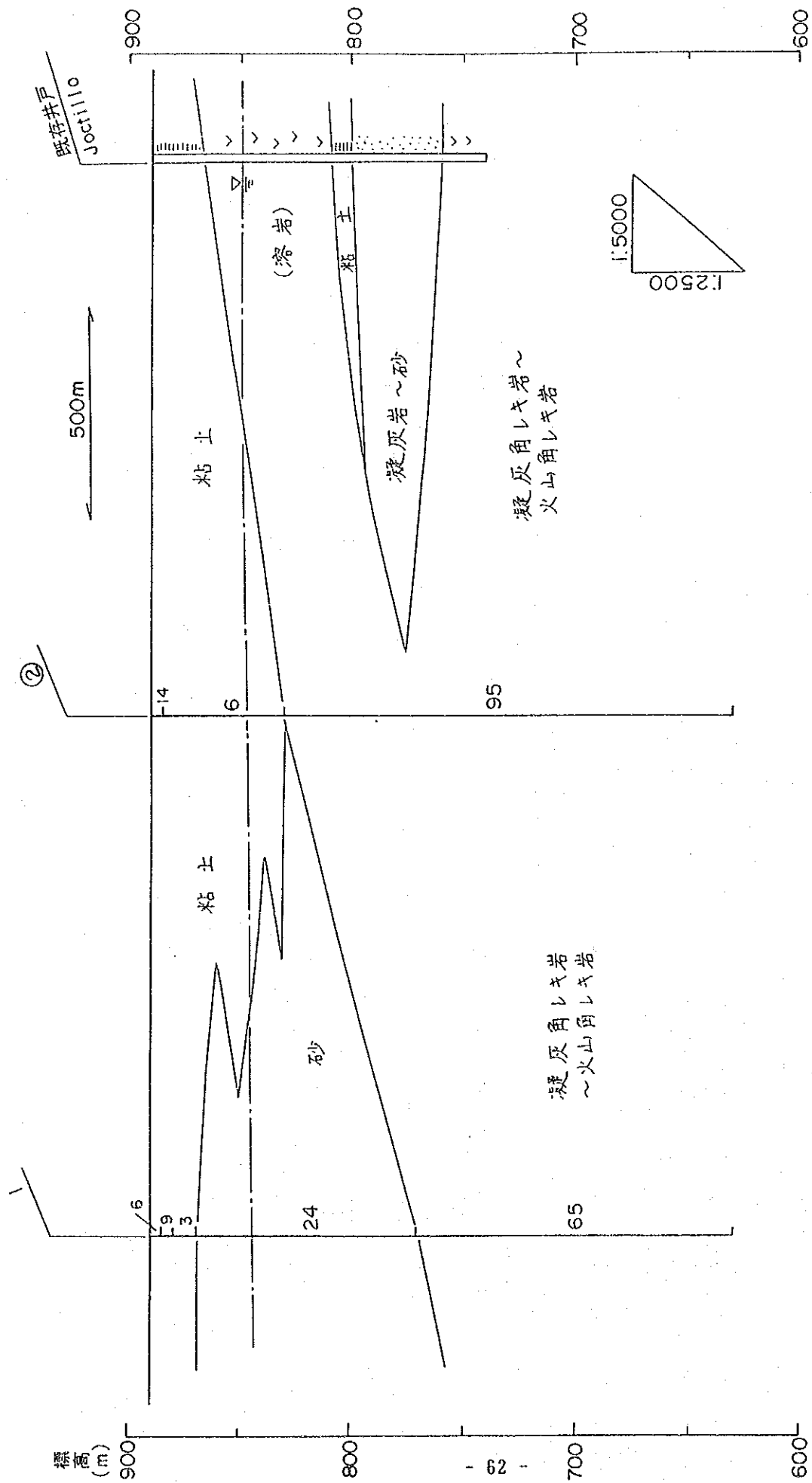
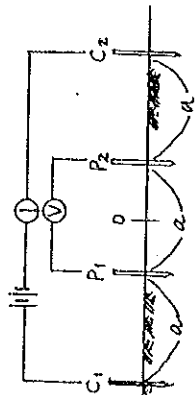


図 G 62 30. La Pena

Fig. 64 Data Sheet for Resistivity Sounding



Data Sheet for Resistivity Sounding (Wenner's Configuration)

No. _____ Name of Place : _____ Date : _____ Operated by : _____
 Geologic formation _____ Surface Condition _____ Weather _____

No	a (m)	C ₁ C ₂ /2 (m)	P ₁ P ₂ /2 (m)	$\frac{2\pi a}{\rho}$	R	$\rho = 2\pi aR$	Remarks
1	1	1.5	0.5	6.28			
2	2	3.0	1.0	12.6			
3	3	4.5	1.5	18.8			
4	4	6.0	2.0	25.1			
5	5	7.5	2.5	31.4			
6	6	9.0	3.0	37.8			
7	8	12.0	4.0	50.3			
8	10	15.0	5.0	62.9			
9	12	18.0	6.0	75.5			
10	14	21.0	7.0	87.9			
11	16	24.0	8.0	100			
12	18	27.0	9.0	113			
13	20	30.0	10.0	126			
14	24	36.0	12.0	151			
15	28	42.0	14.0	176			
16	32	48.0	16.0	201			
17	36	54.0	18.0	226			
18	40	60.0	20.0	251			
19	45	67.5	22.5	283			
20	50	75.0	25.0	314			
21	55	82.5	27.5	345			
22	60	90.0	30.0	377			
23	65	97.5	32.5	408			
24	70	105.0	35.0	440			
25	76	114.0	38.0	477			
26	82	123.0	41.0	515			
27	90	135.0	45.0	565			
28	100	150.0	50.0	628			
29	110	165.0	55.0	691			
30	120	180.0	60.0	754			
31	140	210.0	70.0	879			
32	160	240.0	80.0	1005			
33	180	270.0	90.0	1130			
34	200	300.0	100.0	1260			
35	220	330.0	110.0	1380			
36	240	360.0	120.0	1507			
37	260	390.0	130.0	1630			
38	280	420.0	140.0	1760			
39	300	450.0	150.0	1885			
40	320	480.0	160.0	2010			
41	340	510.0	170.0	2136			
42	360	540.0	180.0	2262			
43	380	570.0	190.0	2388			
44	400	600.0	200.0	2512			

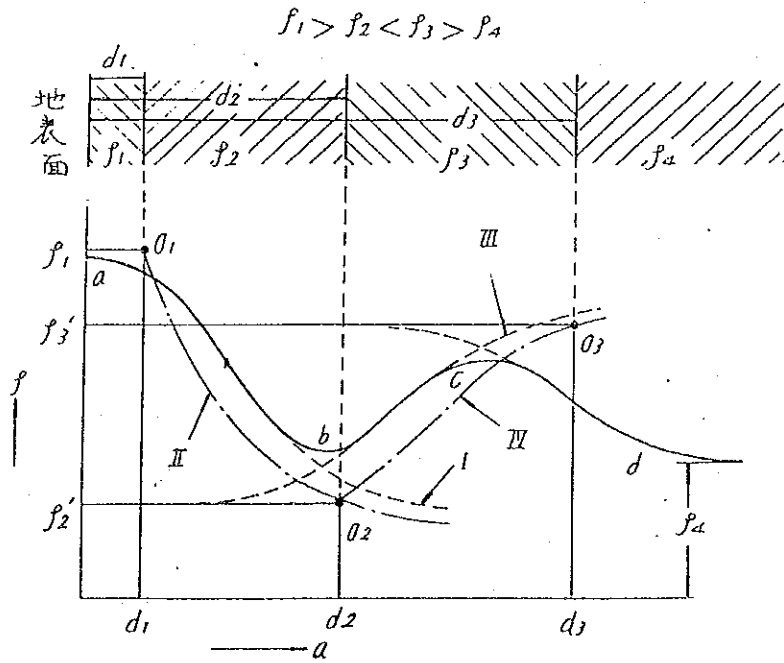


Fig. 65 Explicación de Análisis

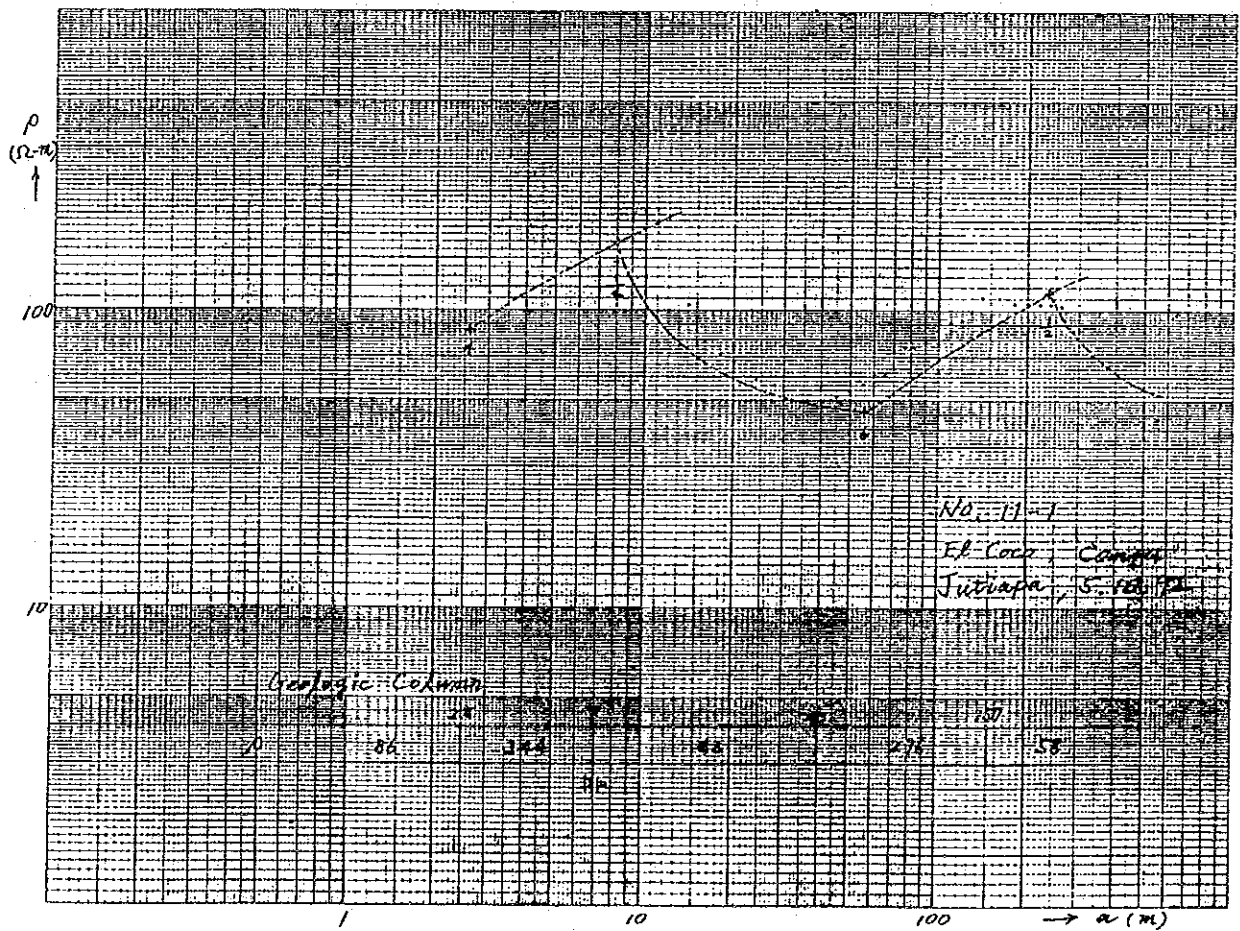


Fig. 66 Ejemplo de Análisis

標準曲線

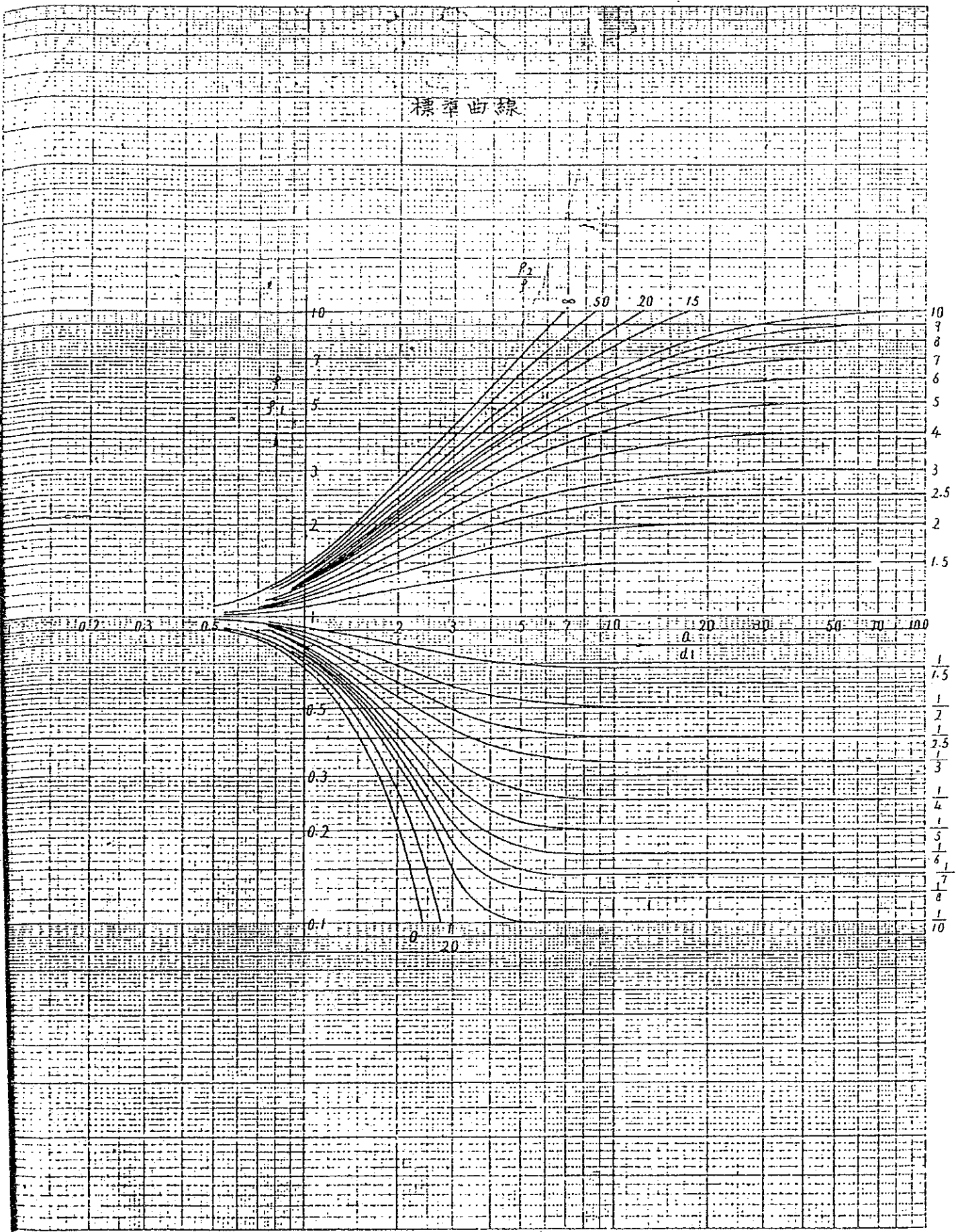


Fig. 67 Standard Curves

補助曲線

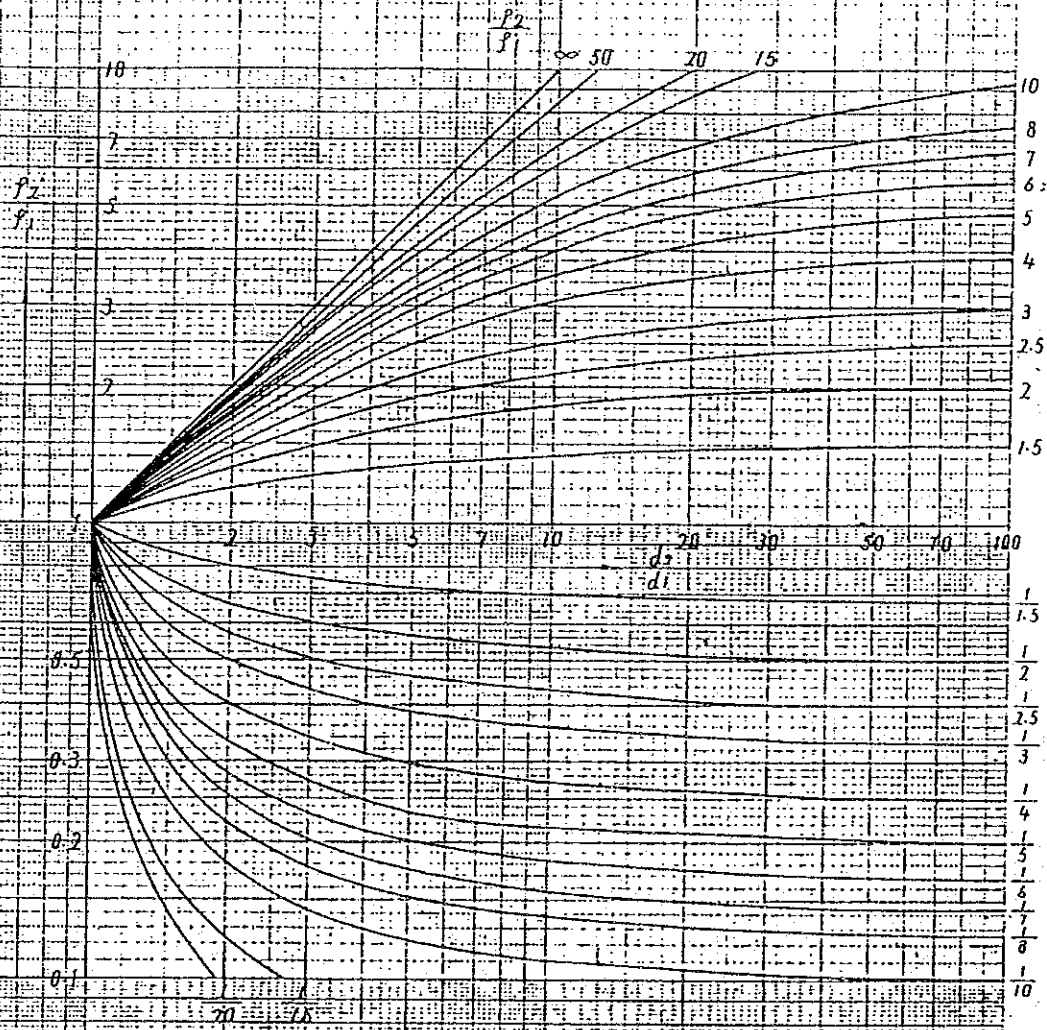
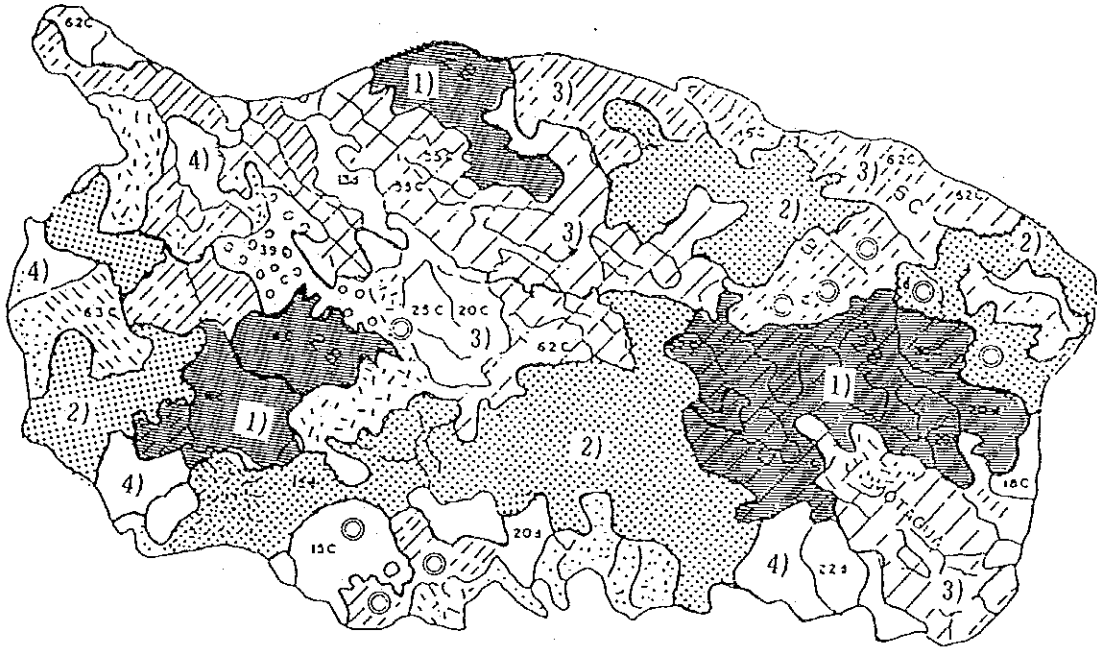


Fig. 68 Subsidiary Curves



DEPARTAMENTO DE EL PROGRESO
 USO POTENCIAL DE SUELOS
 ESCALA 1:250,000

◎ 開発予定地

凡例

火山堆積物土壤 (EL PROGRESO 県)

- 1) 灰白色の微細火山灰土壤
- 2) 火山性褐色土壤、表土は薄い。
- 3) 赤褐色微細火山灰土壤。
- 4) 火山岩風化土壤。

出典、Clasificacion de Reconocimiento de Los
 Suelos de la Republica de GUATEMALA (1985)

土壤図 (エル プログレス 県)

Fig. G - 56 Clasificación de Suelo



DEPARTAMENTO DE ZACAPA
USO POTENCIAL DE SUELOS
ESCALA 1:250,000

◎ 開発予定地

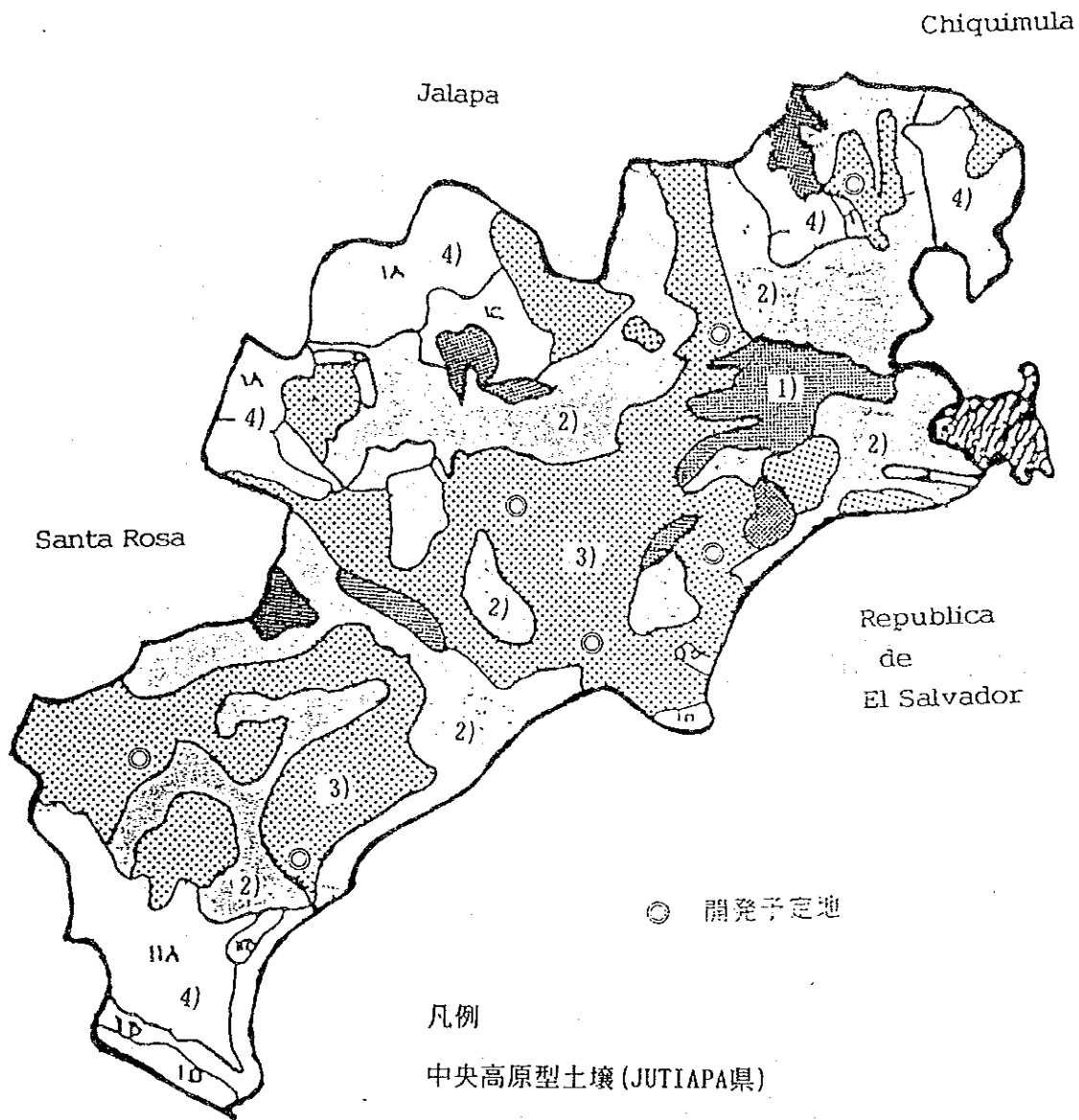
凡例

火山噴出物堆積性土壤 (ZACAPA県)

- 1) 火山岩風化黒色土壤。
- 2) 褐色火山灰混合土壤。
- 3) 火山堆積物土壤。
- 4) 赤褐色火山堆積物土壤。

出典、Clasificacion de Reconocimiento de Los
Suelos de la Republica de GUATEMALA (1985)

土壤図 (サカパ 県)



凡例

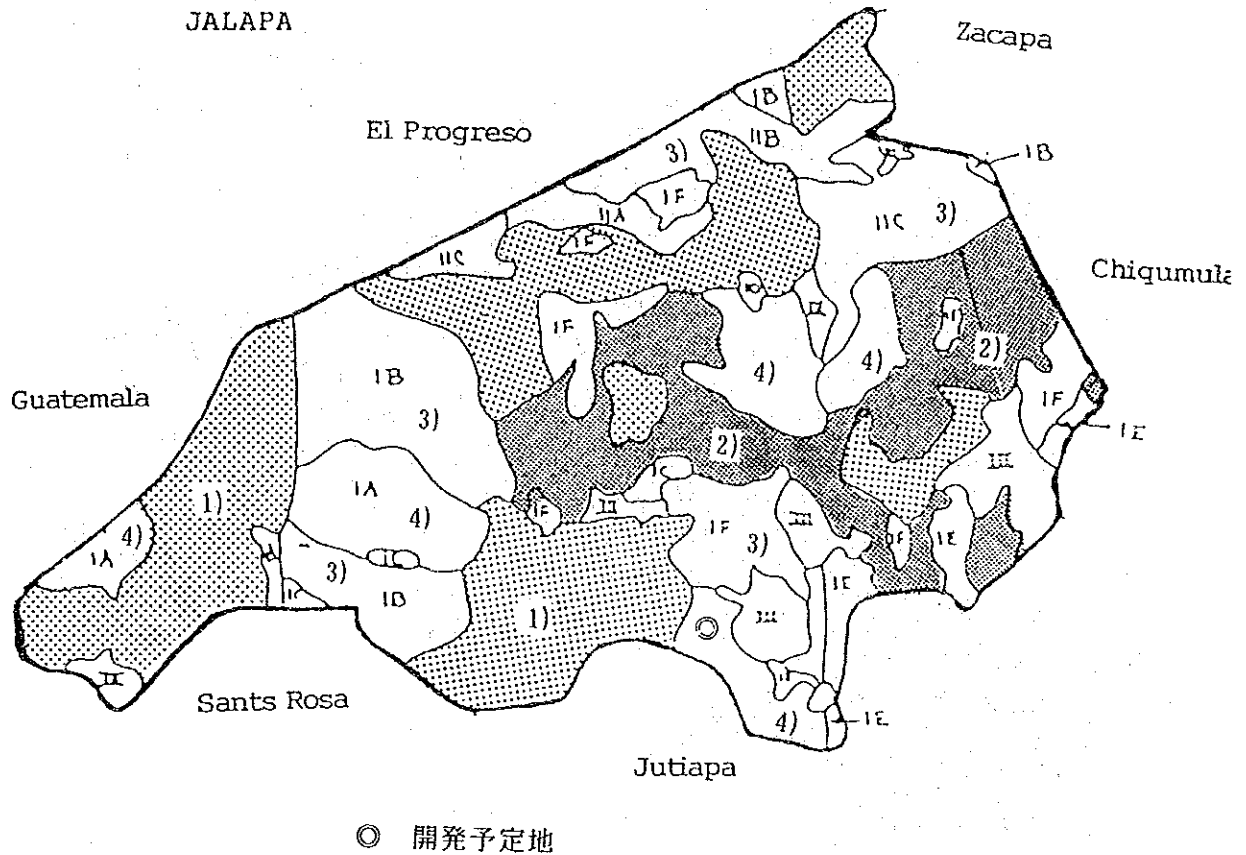
中央高原型土壤 (JUTIAPA県)

- 1) 暗褐色、火山性風化土壤、暖傾斜地に分布する。
- 2) 赤色土壤、土壤層は中程で標高は中間位に分布する。
- 3) 黒褐色土壤、平坦部に分布する。
- 4) 赤色土壤、表土が浅い堆積岩層からなる土壤。

出典、Clasificacion de Reconocimiento de Los Suelos de la Republica de GUATEMALA (1985)

土壤図 (フティァパ 県)

CLASIFICACION DE SUELOS DEPTO



凡例

火山性土壌 (JALAPA県)

- 1) 淡赤色で、土壌層が深い、低標高地に分布する。
- 2) 赤色土壌、土壌層は中程で標高は中間位に分布する。
- 3) 暗褐色の傾斜地に堆積した土壌。
- 4) 堆積、変成岩土壌で蛇紋石が混じり土層は薄い。

出典、Clasificacion de Reconocimiento de Los
Suelos de la Republica de GUATEMALA (1985)

土壌図 (ハラバ 県)

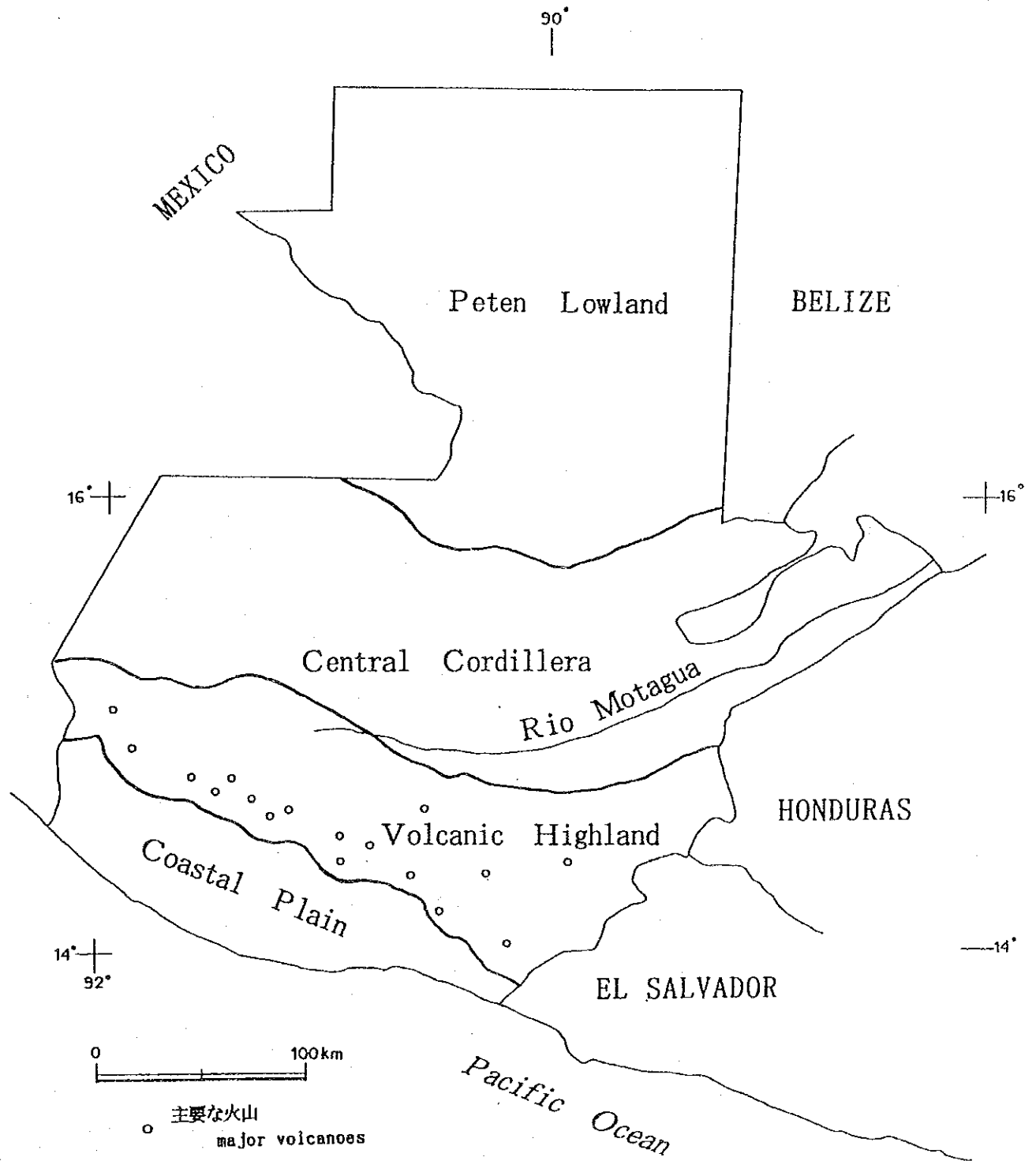


Fig. G - 60 Clasificación de topografía de Guatemala

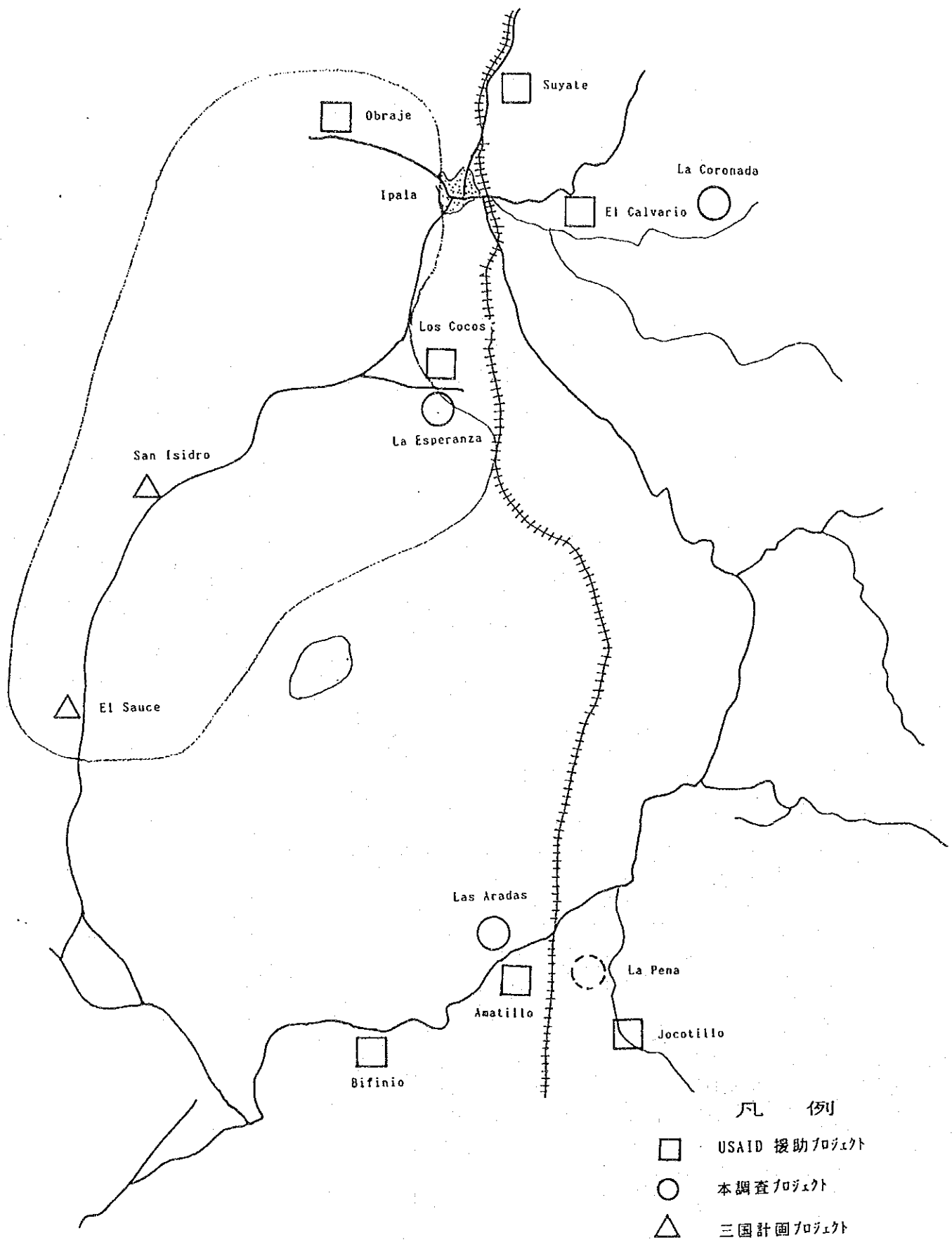
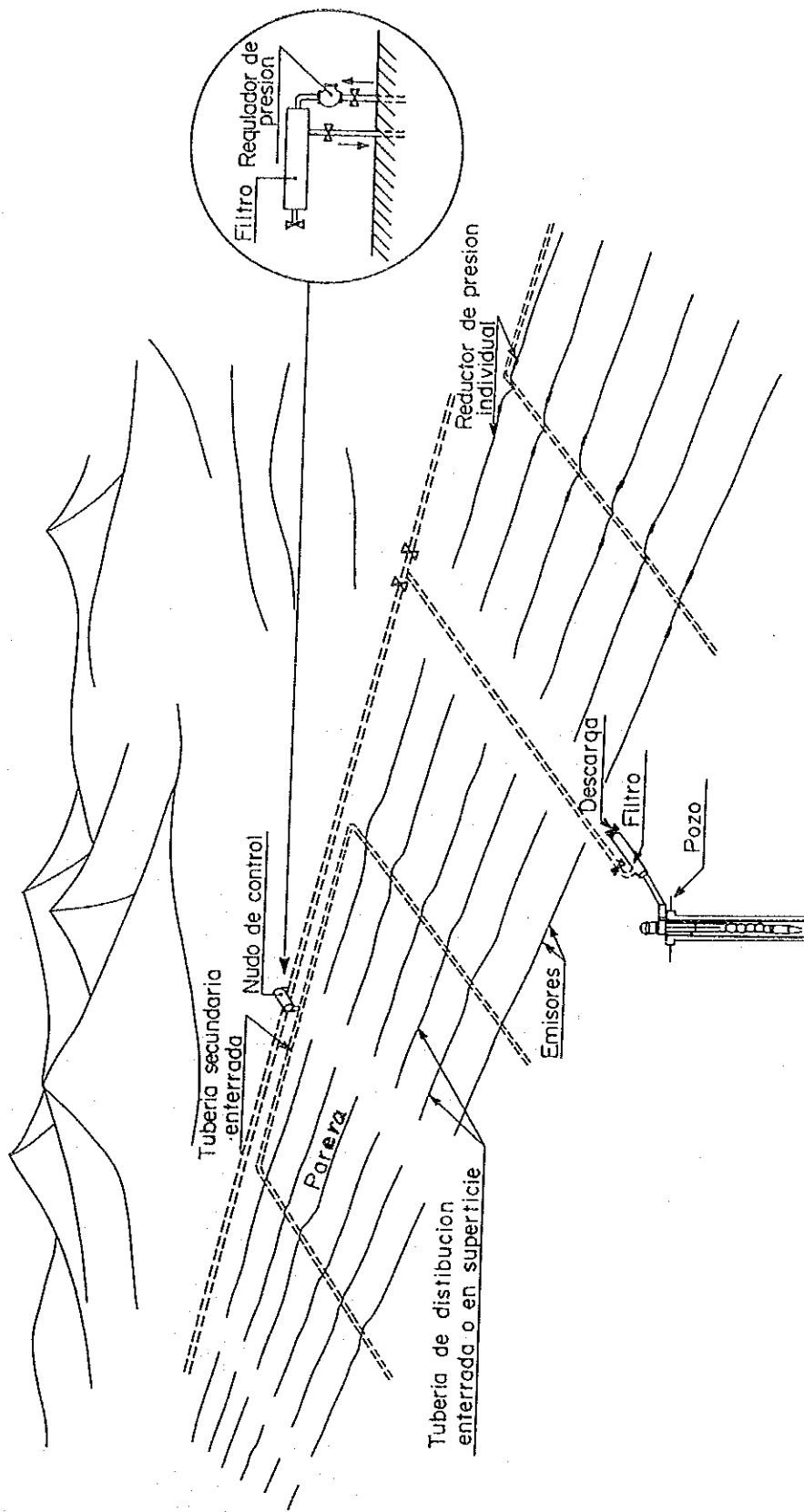
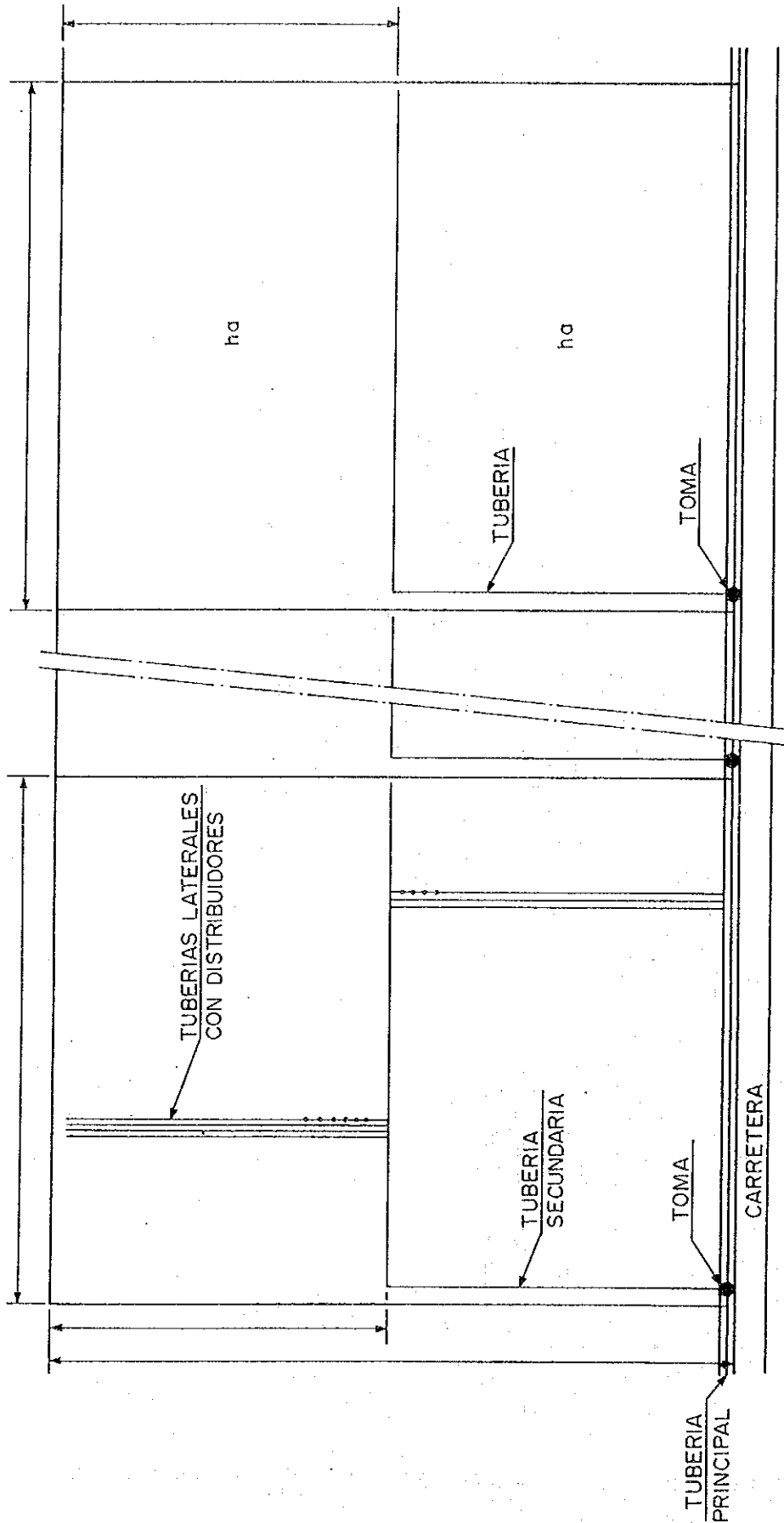


Fig. P - 1 Ubicaciones de los Proyectos apoyo Internacional cercanías de la zona Ipala



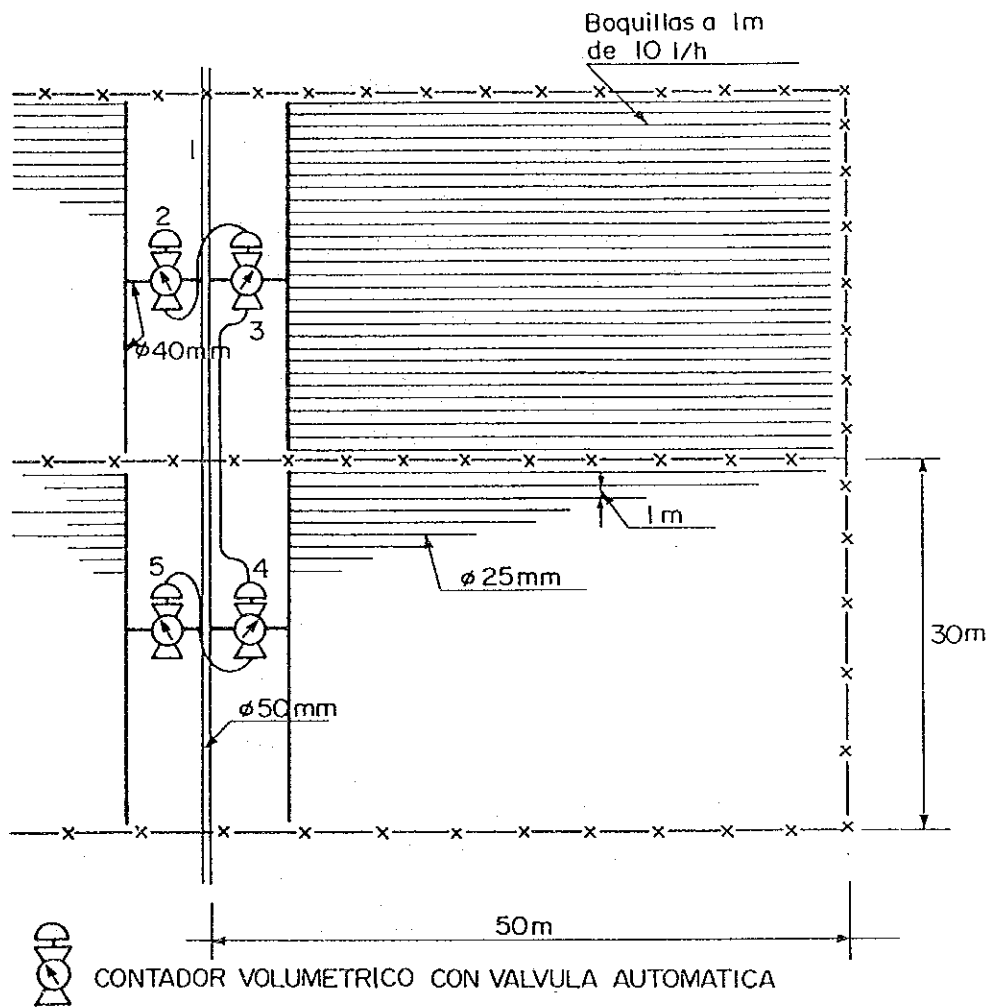
ESQUEMA DEL PROYECTO MINIRRIEGO

Fig. P - 2 ESQUEMA DEL PROYECTO MINIRRIEGO



Plan de una zona de aprovechamiento. Instalación colectiva con distribución a la demanda.

Fig. P - 3 Plan de una zona de aprovechamiento. Instalación colectiva con distribución a la demanda.



EL AGUA CIRCULA POR 1 Y COMIENZA A PASAR POR 2 MIENTRAS SE MANTIENEN CERRADOS 3,4..... CUANDO POR 2 HA PASADO EL VOLUMEN PREVISTO SE CIERRA, ABRIENDO 3 Y ASI SUCESIVAMENTE.

PARCERA TIPICA. SISTEMA DE GOTEO

Fig. P - 4 PARCELA TIPICA (SISTEMA DE GOTEO)

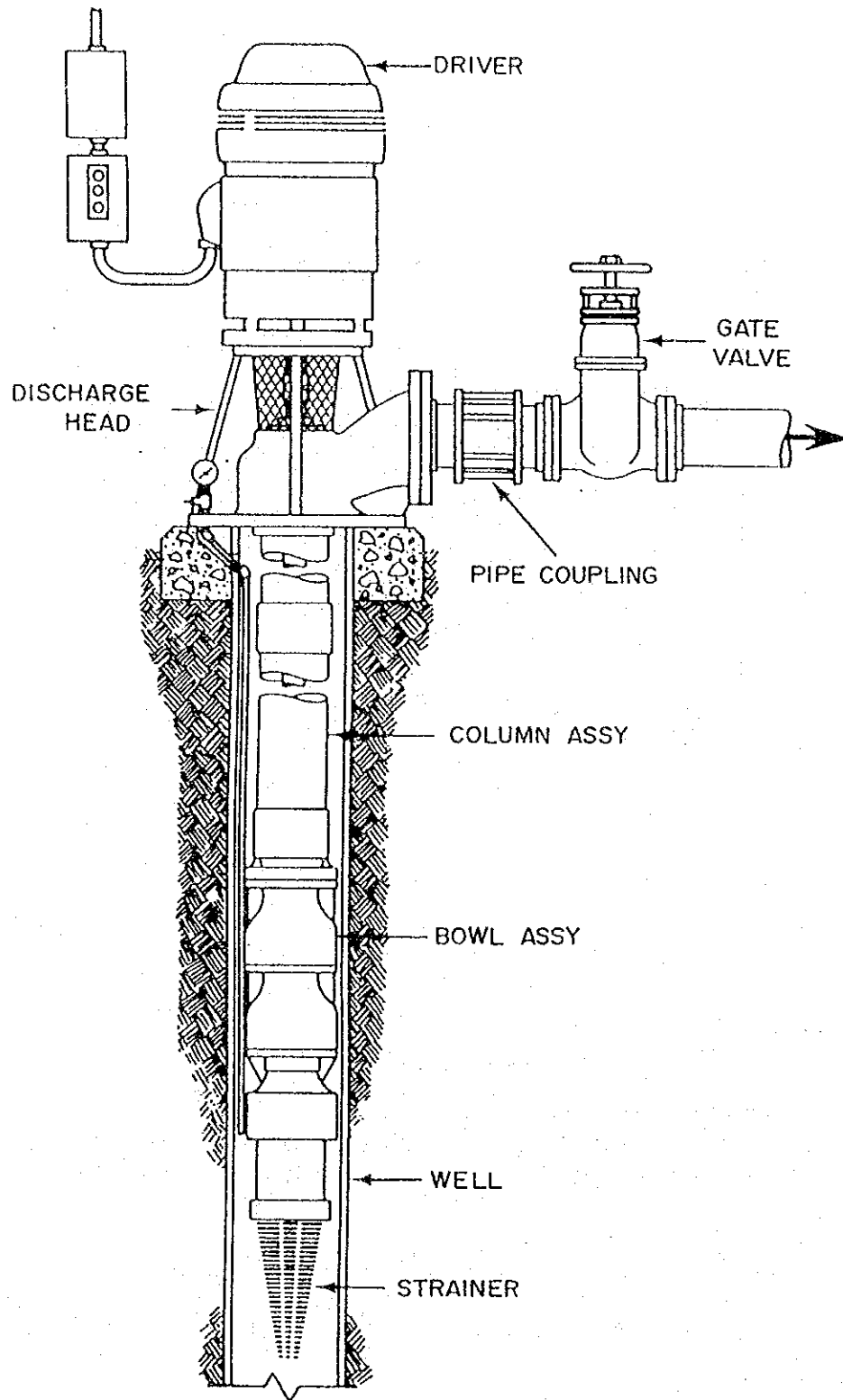


Fig. P - 5 ESQUEMA DE BOMBA TURBINA DE ETAPAS MULTIPLES DE EJE VERTICAL

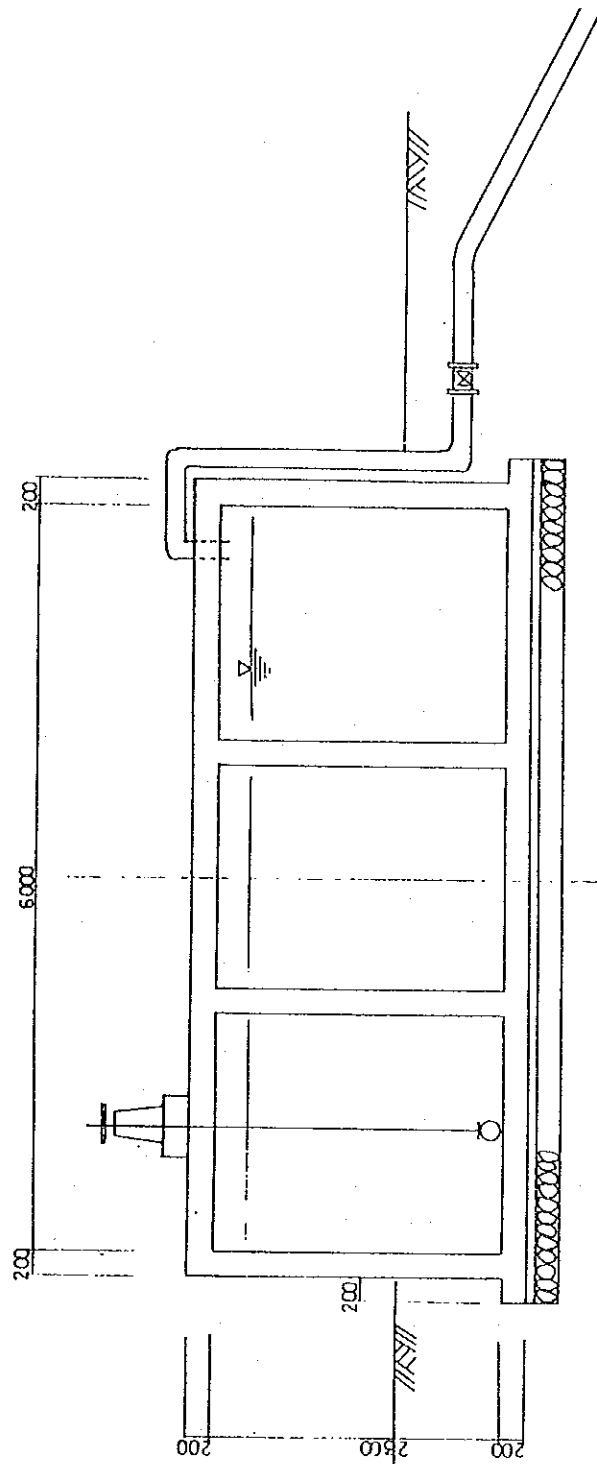


图 P - 6 配水槽标准断面图

Fig. P - 6 SECCION TIPICA DEL TANQUE DE AGUA

潜水橋 サン・ピセンテ

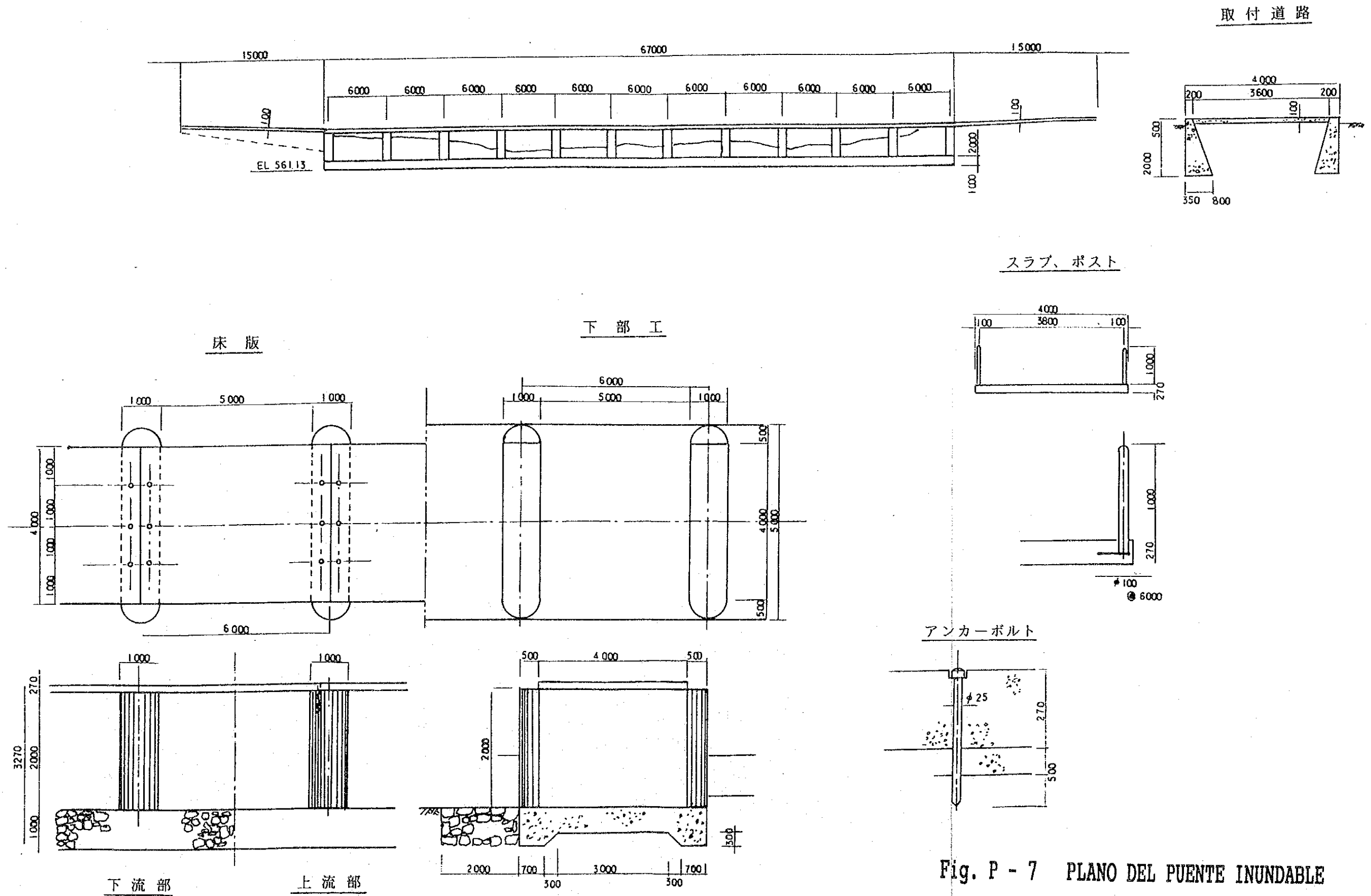


Fig. P - 7 PLANO DEL PUENTE INUNDABLE



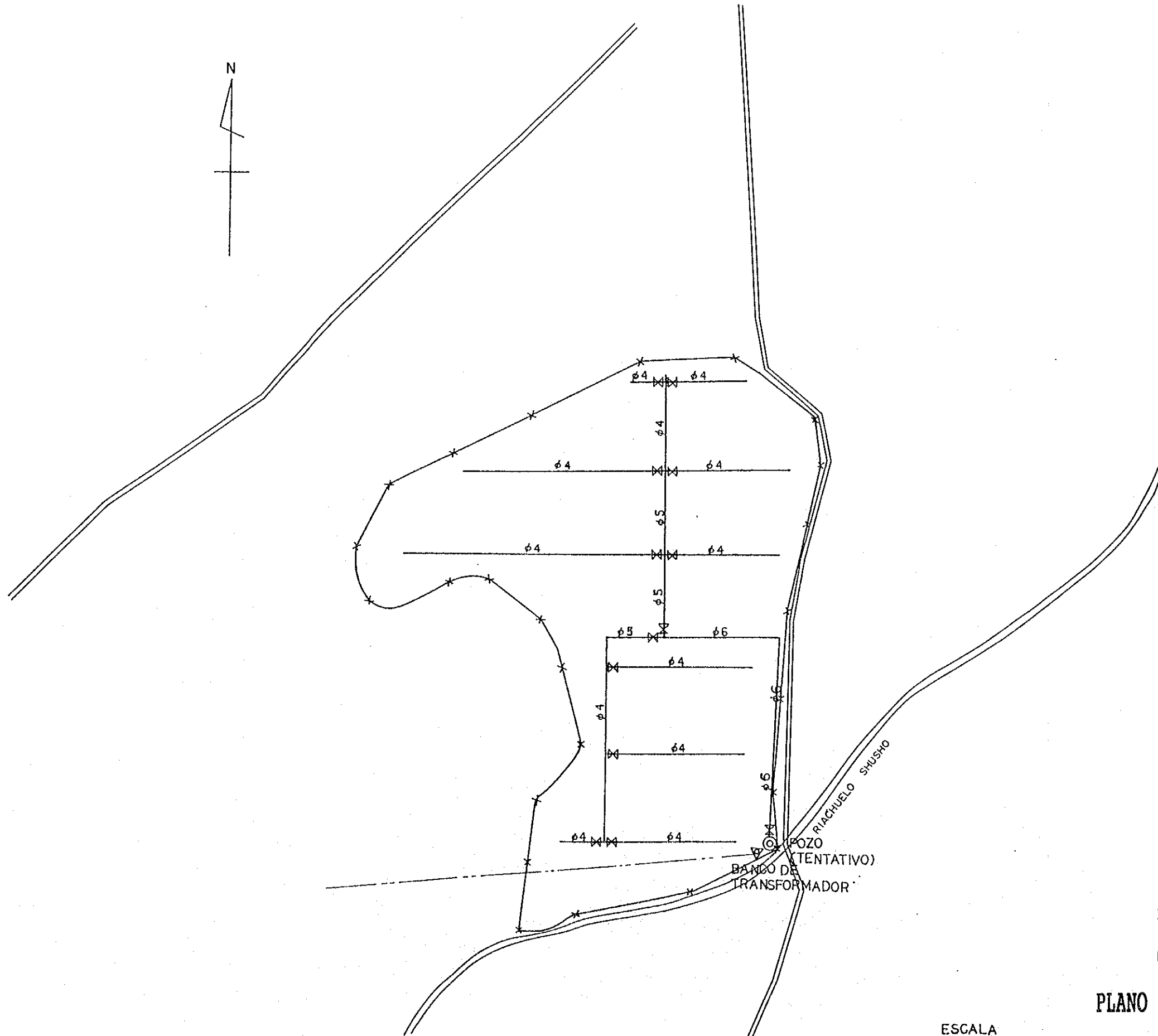
LO DE CHINA

ESCALA 1:5000

図 P - 8 計画地区各施設計画配置図

計画地区施設計画配置図 (Lo de China)

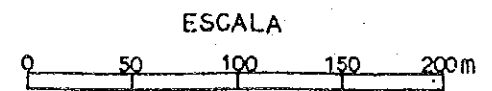
PLANO GENERAL (TENTATIVO) LO DE CHINA

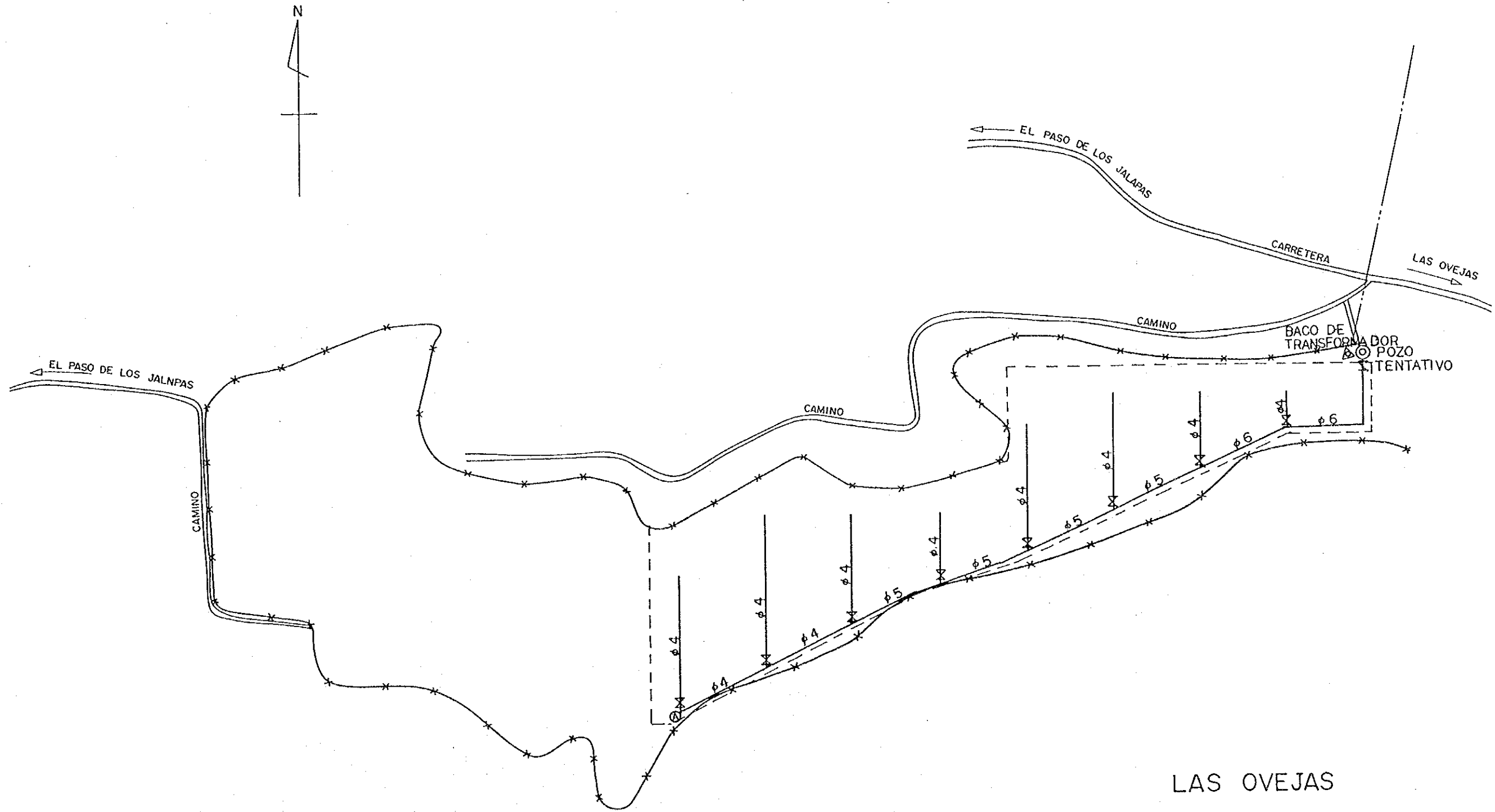


SHUSHO ABAJO

ESCALA 1:2500

PLANO GENERAL (TENTATIVO) SHUSHO ABAJO

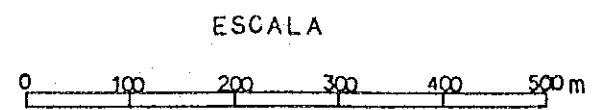




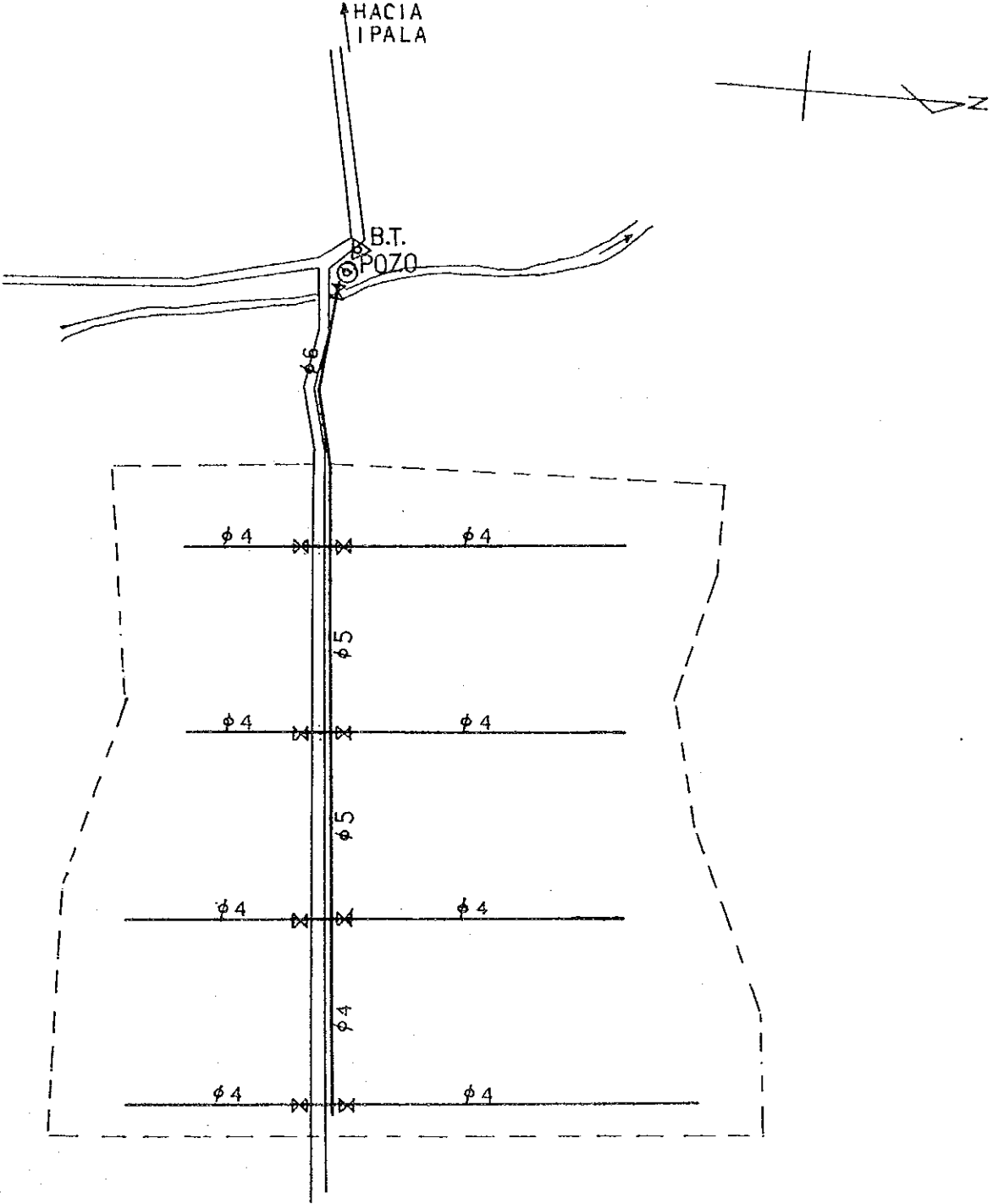
LAS OVEJAS

ESCALA 1:5000

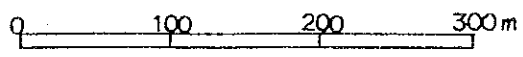
PLANO GENERAL (TENTATIVO) LAS OVEJAS



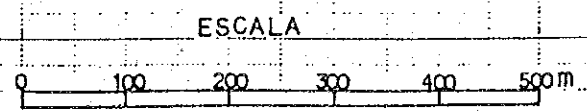
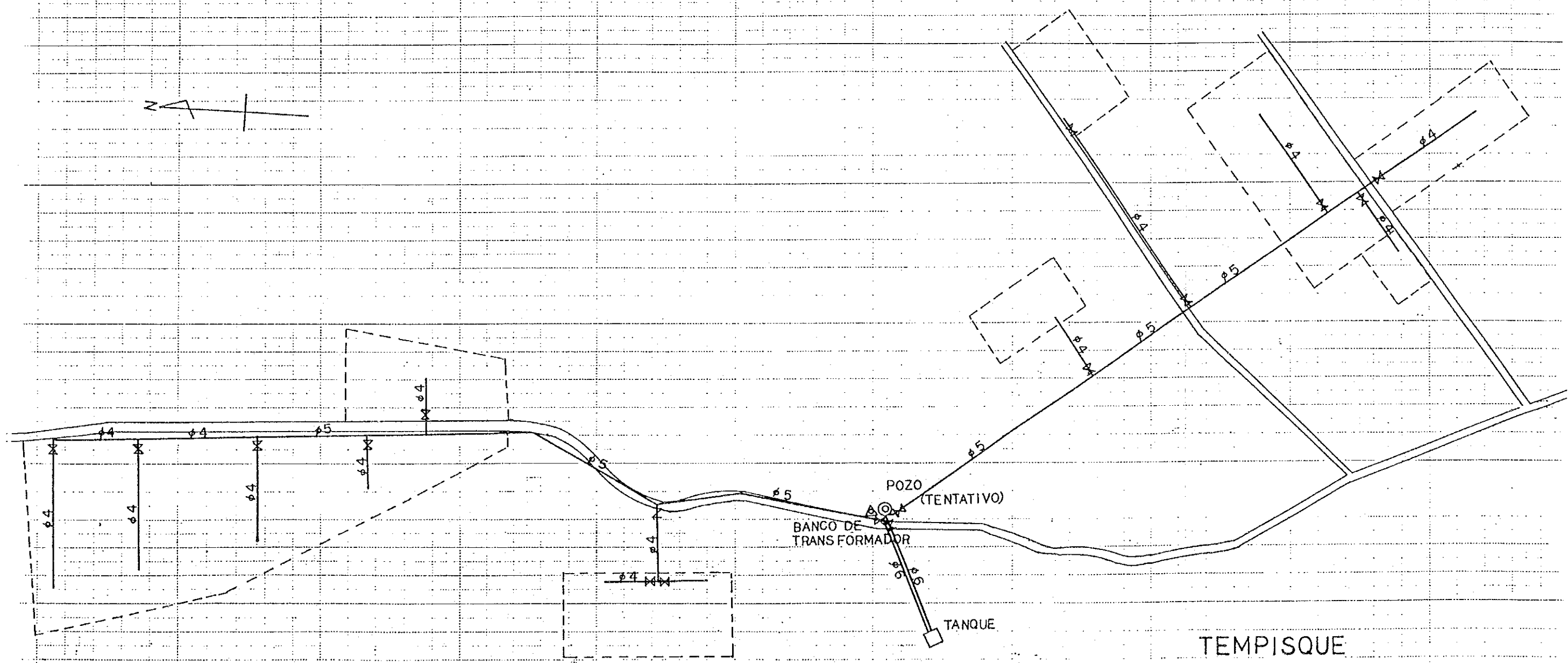
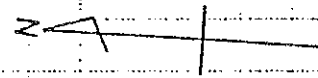
LA CORONADA



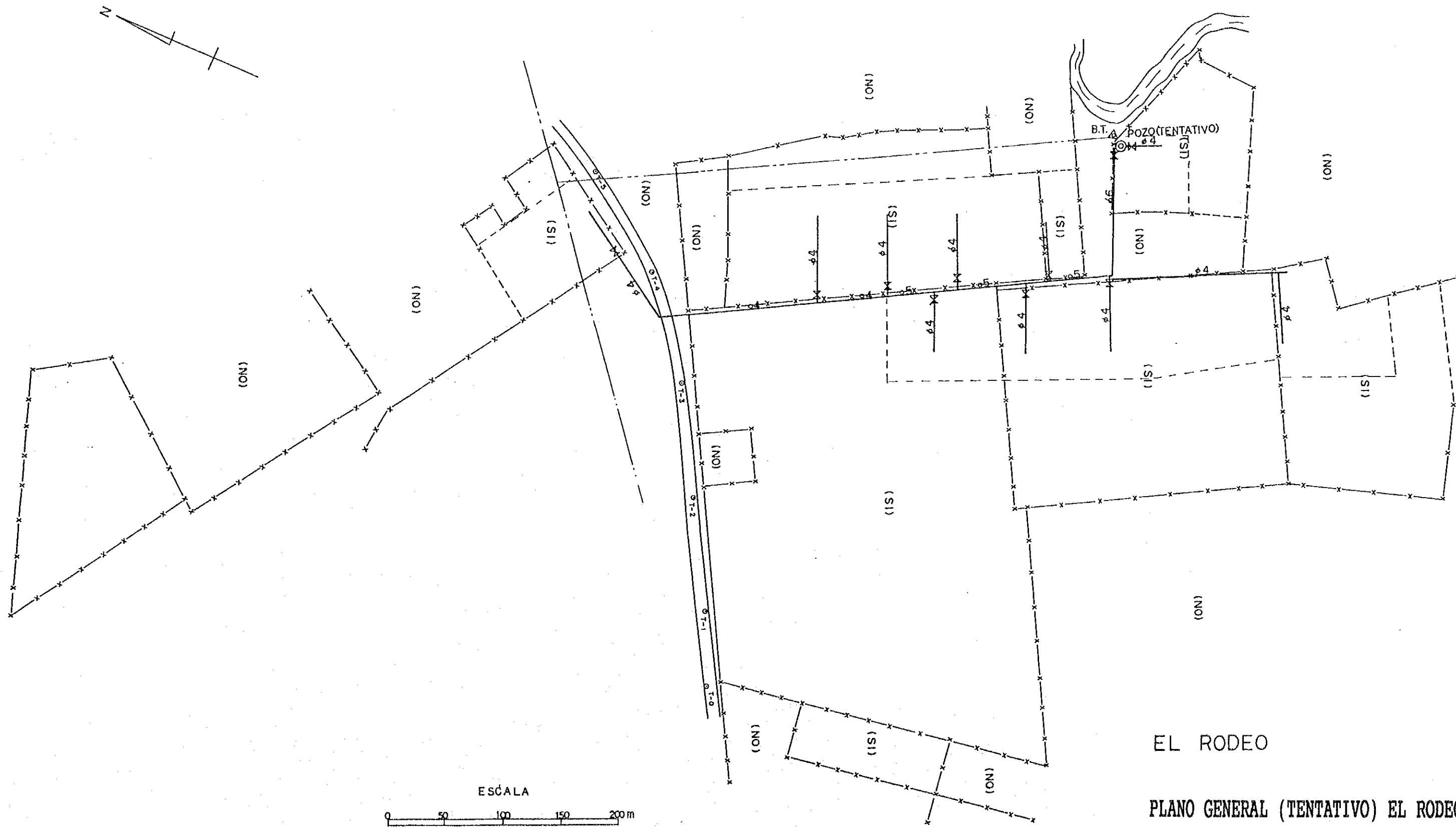
ESCALA



PLANO GENERAL (TENTATIVO) LA CORONADA



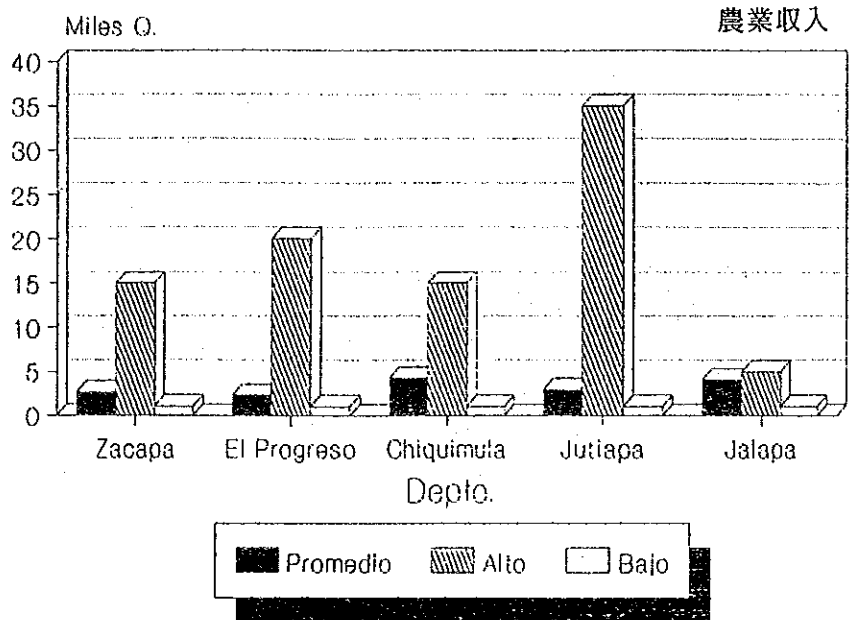
PLANO GENERAL (TENTATIVO) EL TEMPISQUE



EL RODEO
 PLANO GENERAL (TENTATIVO) EL RODEO

INGRESO / EGRESO

(Ingreso Agrícola)



INGRESO / EGRESO

(Egreso Agrícola)

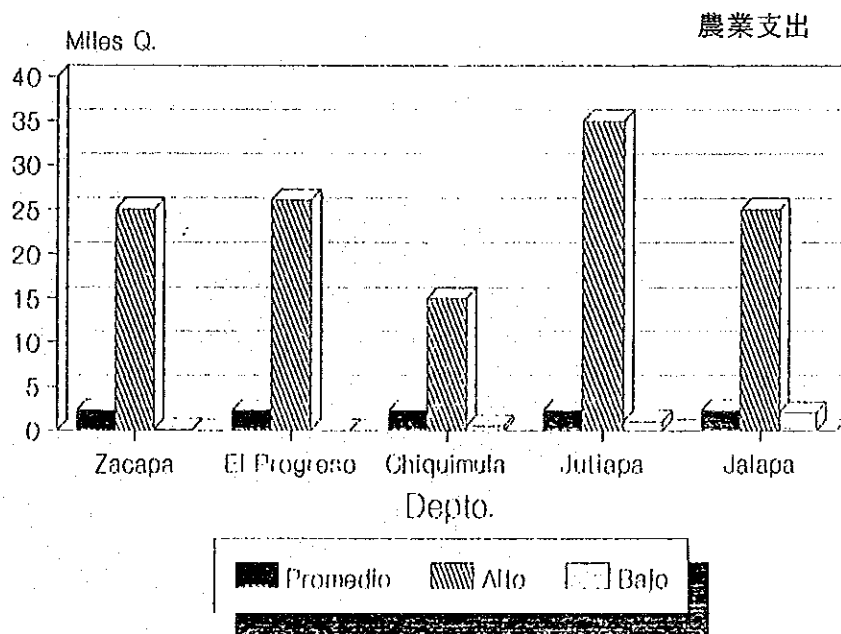
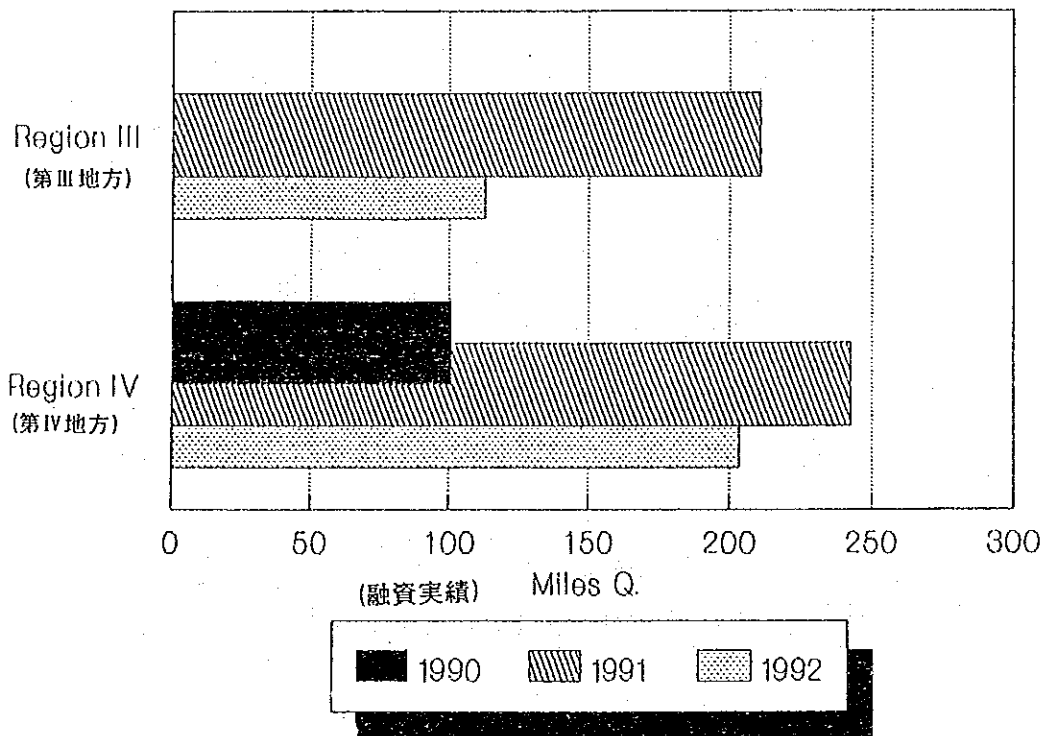


Fig. P - 9 INGRESO Y EGRESO DE AGRICOLA

FINANCIAMIENTO DE BANDESA

Productos Agricola



Fuente: BANDESA

Fig. P - 10 FINANCIAMIENTO DE BANDESA (1990 - 1992)

FINANCIAMIENTO DE BANDESA

1991 (Millones Q.)

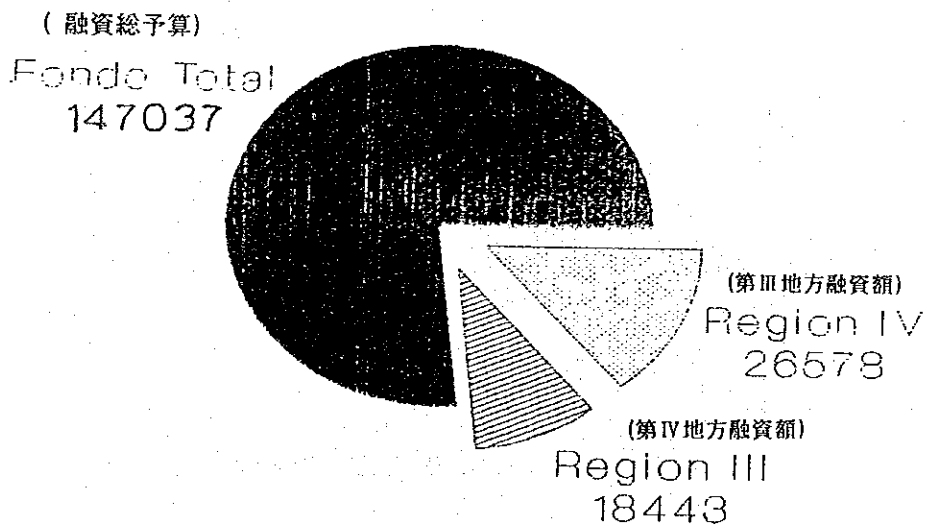


Fig. P - 11 FINANCIAMIENTO DE BANDESA 1991

JICA