

国際協力事業団 (JICA)

No. 5

マレーシア国
第一次産業省
鉱物資源科学局 (MGD)

マレーシア国
サバ州石炭探査・評価調査

最終報告書

図面

平成11年9月

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J1152906(2)

三井鉱山エンジニアリング株式会社
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鉱調資

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99-150

国際協力事業団(JICA)

マレーシア国
第一次産業省
鉱物資源科学局(MGD)

マレーシア国
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三井鉱山エンジニアリング株式会社
日 鉱 探 開 株 式 会 社



1152906 [2]

図

- 図2-4-1 炭層露頭位置図-Sheet No. 4/117/5 (Sungai Kalabakan)
- 図2-4-2 炭層露頭位置図-Sheet No. 4/116/8 (Tambulanan)
- 図2-4-3 炭層露頭位置図-Sheet No. 4/116/12 (Gunung Maliat)
- 図2-4-4 炭層露頭位置図-Sheet No. 4/117/9 (Gunong Luis)
- 図2-4-5 炭層露頭位置図-Sheet No. 4/117/10 (Serudong)

- 図2-6-1 地層柱状図 - マリバウ (中央-東部)
- 図2-6-2 地層柱状図 - マリバウ (西部)
- 図2-6-3 地層柱状図 - 南西マリバウ
- 図2-6-4 地層柱状図 - セスイ西

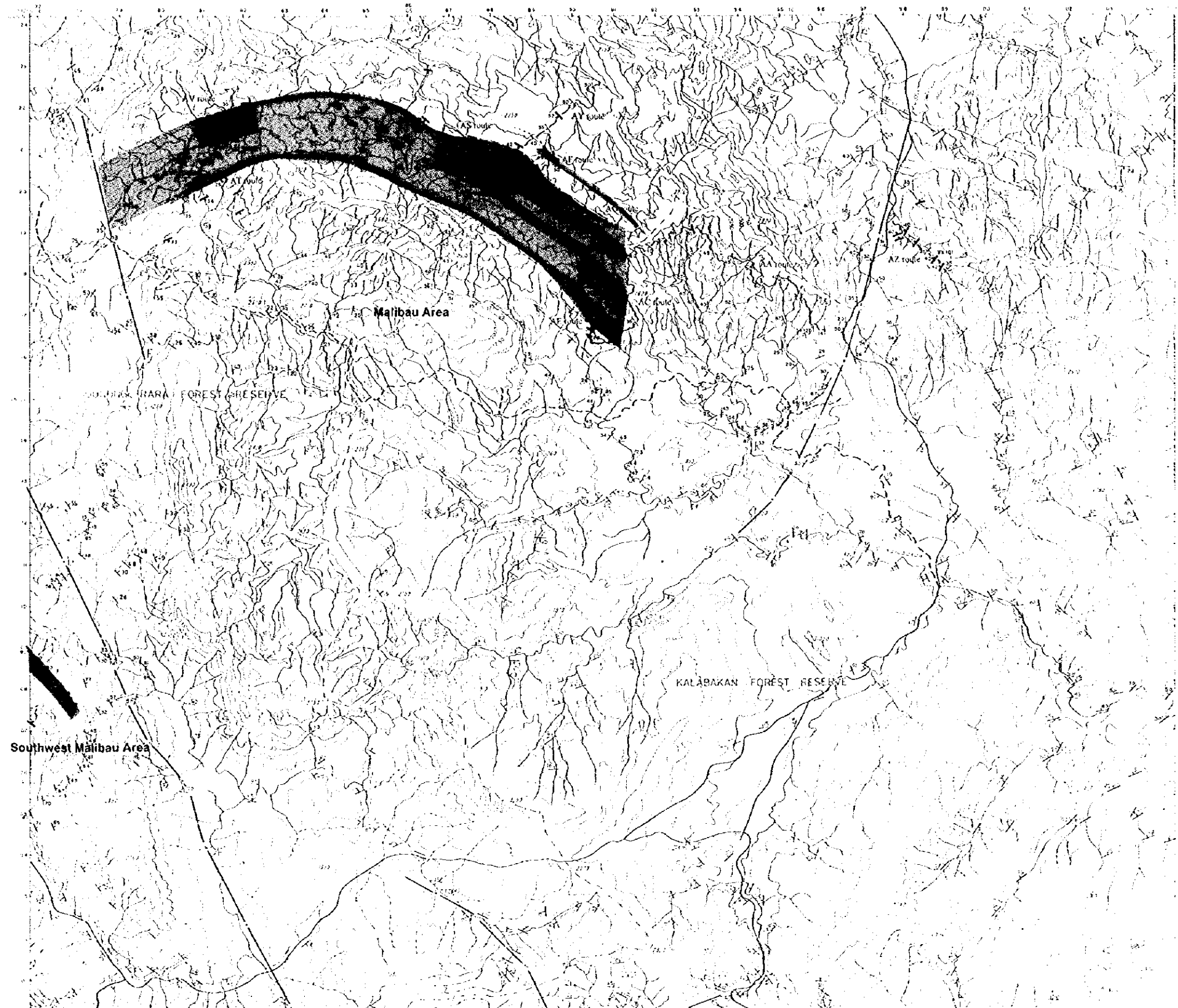
- 図4-1-1 地質図 マリバウ地域
- 図4-1-2 地質図 南西マリバウ

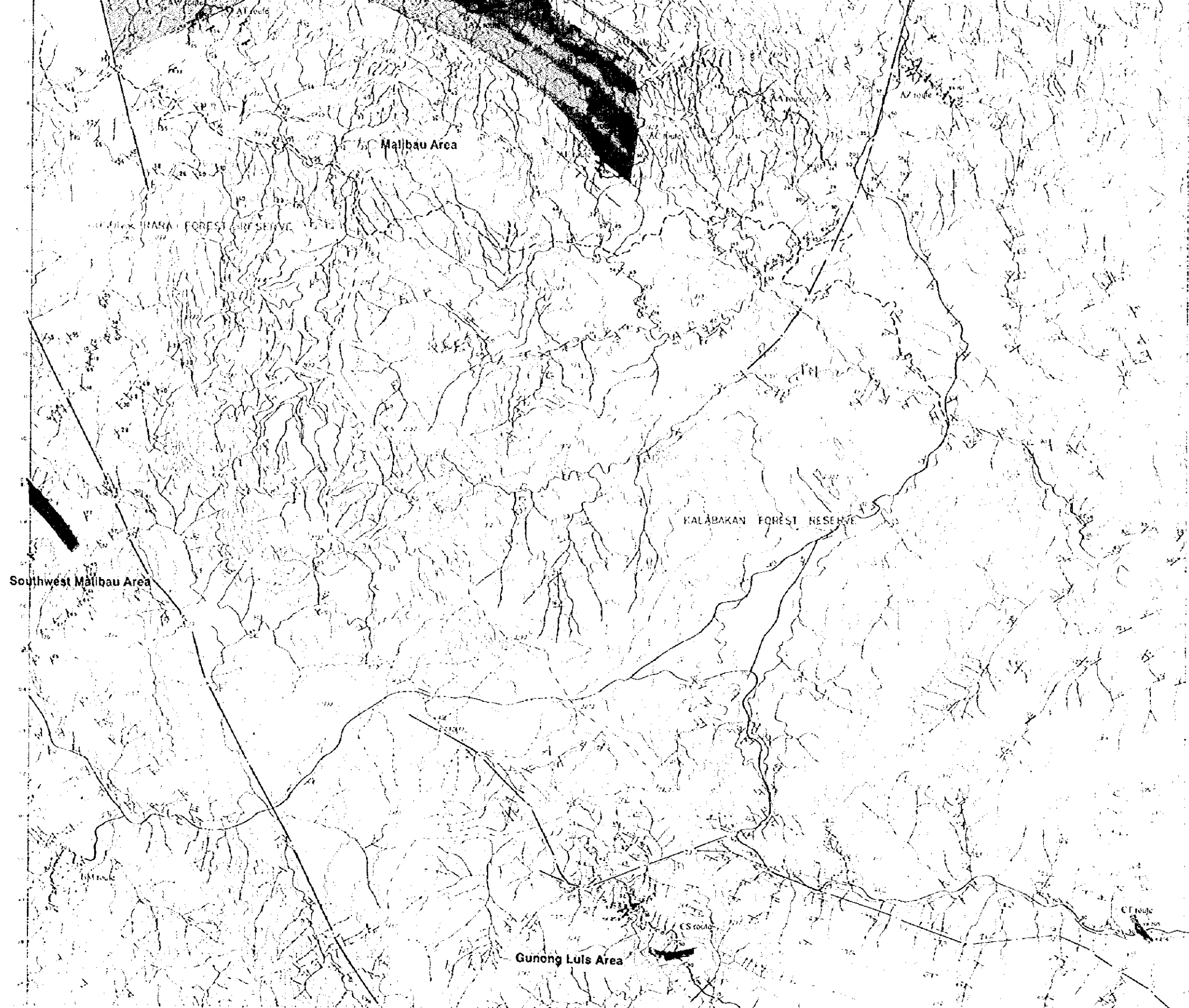
- 図4-3-1 炭層柱状図 マリバウ地域 (東部)
- 図4-3-2 炭層柱状図 マリバウ地域 (西部)
- 図4-3-3 炭層柱状図 南西マリバウ地域

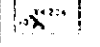
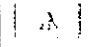
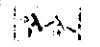

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SUNGAI KALABAKAN

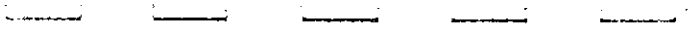
Sheet No. 47.17.5





-  strike and dip of coal with outcrop number
-  strike and dip of rock
-  mapping route
-  coal mine

Scale 1 / 50,000







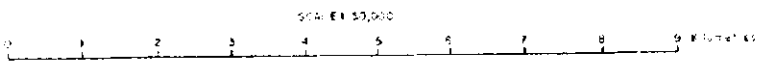
マレーシア国サバ州石炭探査・評価調査
炭層露頭位置図
 Sungai Kalabakan
 (Sheet No. 4/117/5)
 圖 2-4-1 Date: 1999年9月

TAMBULANAN (4/116/8)





-  strike and dip of coal with group number
-  strike and dip of rock
-  mapping route
-  coal zone

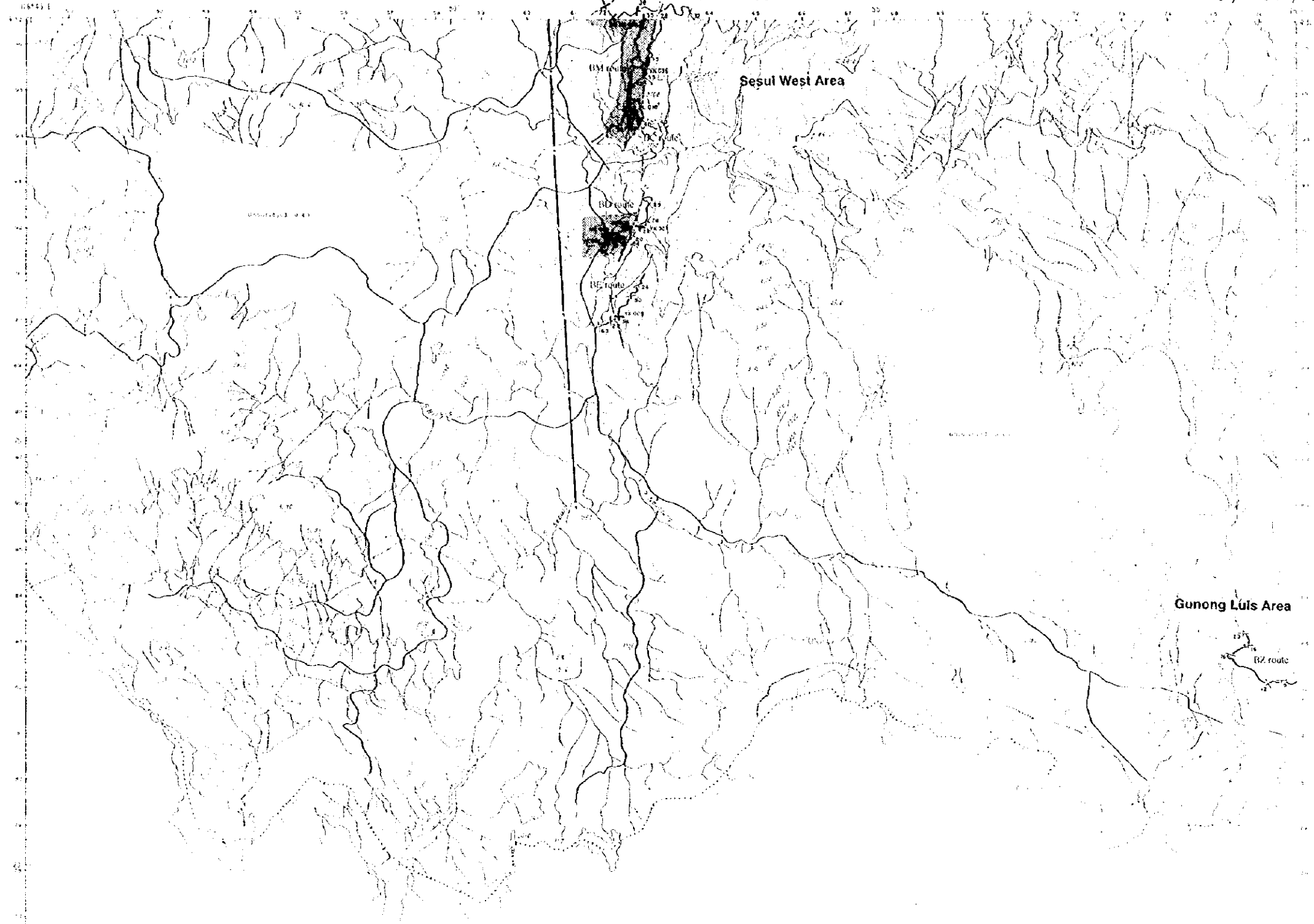


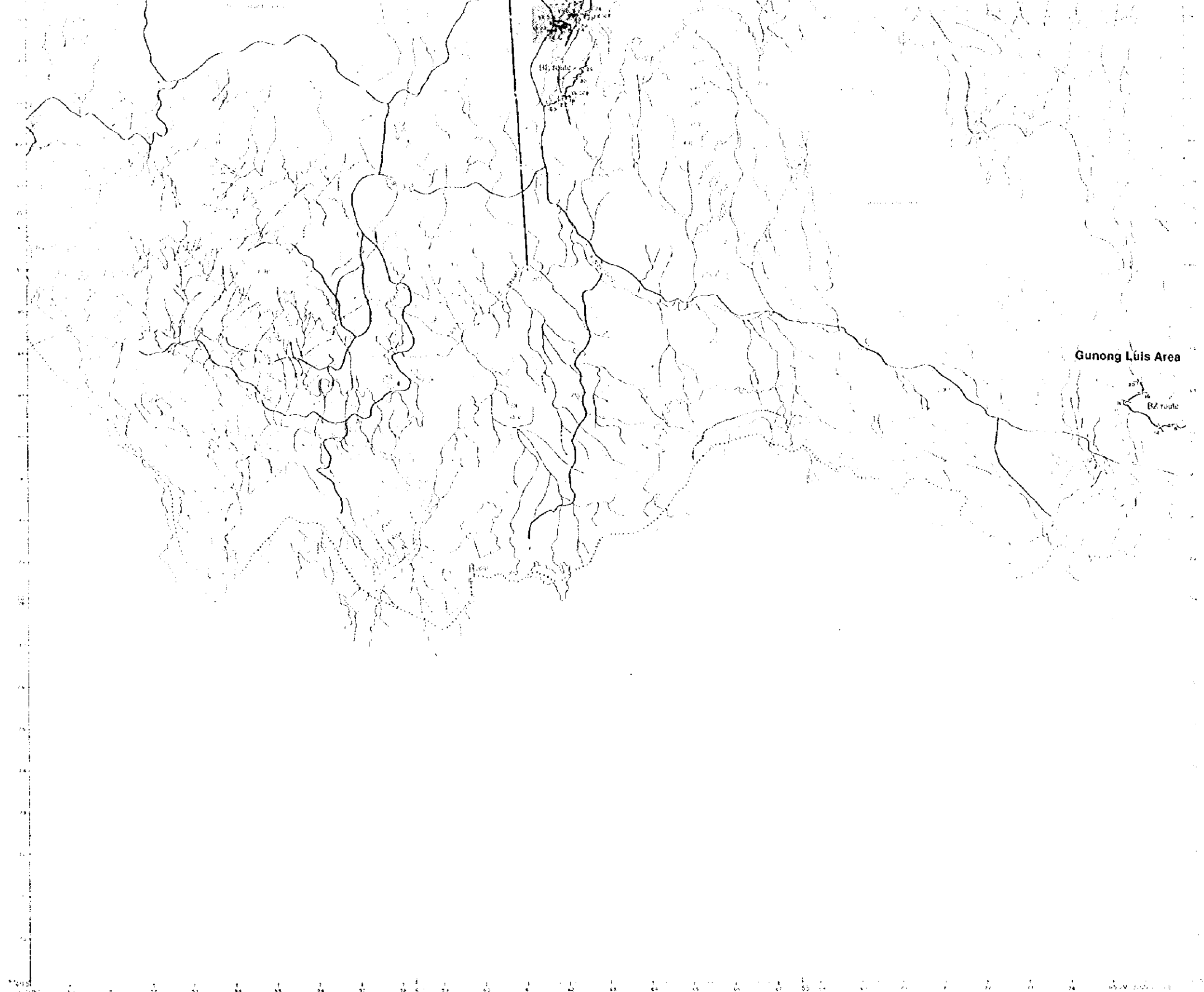
マレーシア国サバ州石炭探査・評価調査
炭層露頭位置図
 Tambulanan
 (Sheet No. 4/116/8)
 図 2-4-2 Date: 1999年9月

1 : 50,000

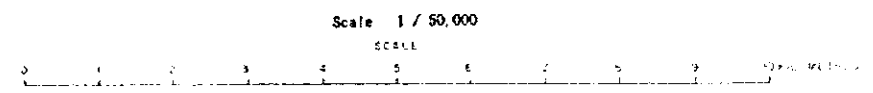
GUNUNG MALIAT

4 / 1 / 12





- | | |
|--|--|
| | strike and dip of coal with outcrop number |
| | strike and dip of rock |
| | mapping route |
| | coal zone |



マレーシア国サバ州石炭探査・評価調査
 炭層露頭位置図
 Gunung Maliat
 (Sheet No. 4/116/12)
 図 2-4-3 Data 1999年9月





GUNONG LUIS

1:50,000

11779



Scale 1 / 50,000

-  strike and dip of coal with outcrop number
-  strike and dip of rock
-  mapping route
-  coal zone

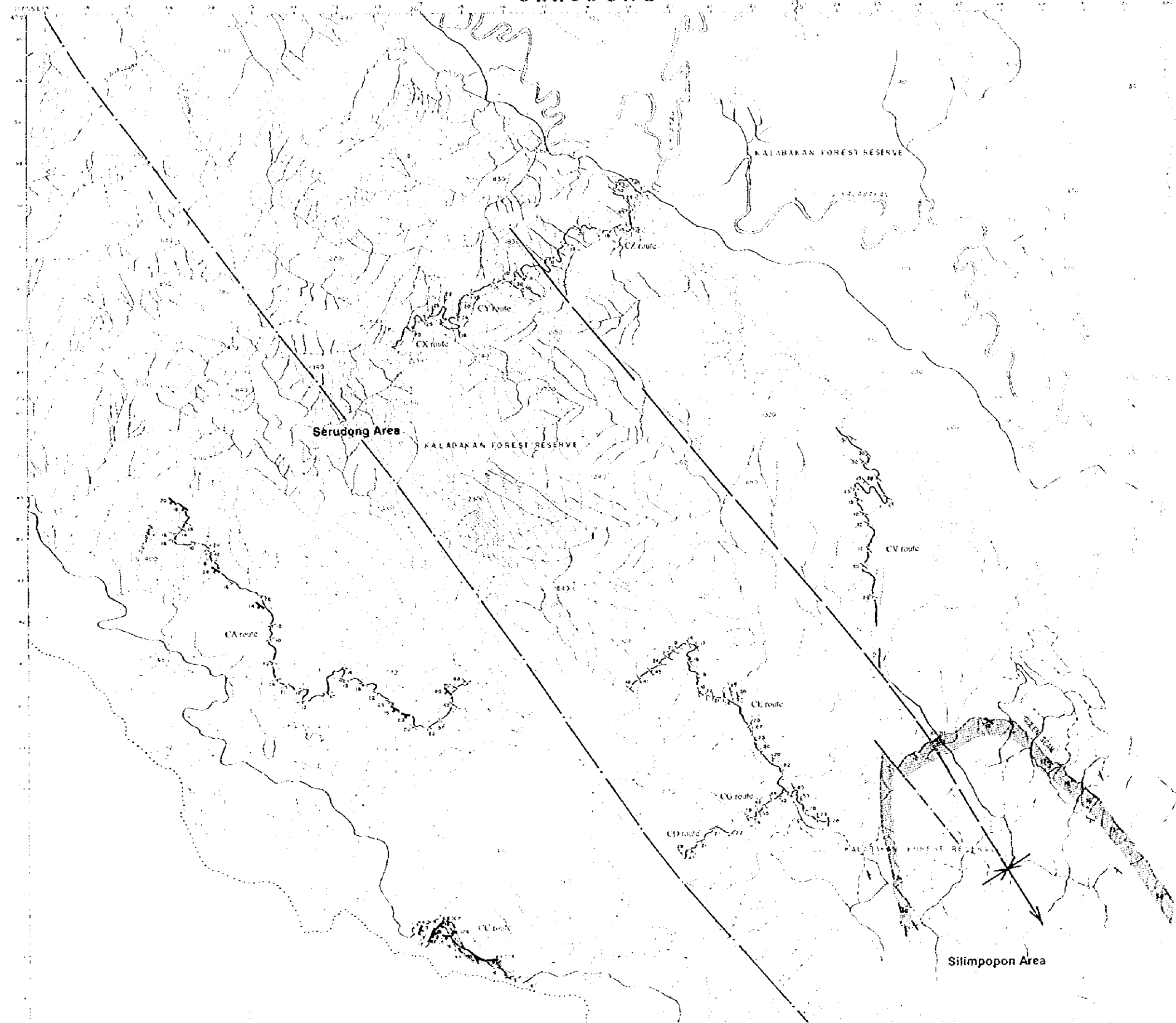
マレーシア国サバ州石炭調査・評価調査

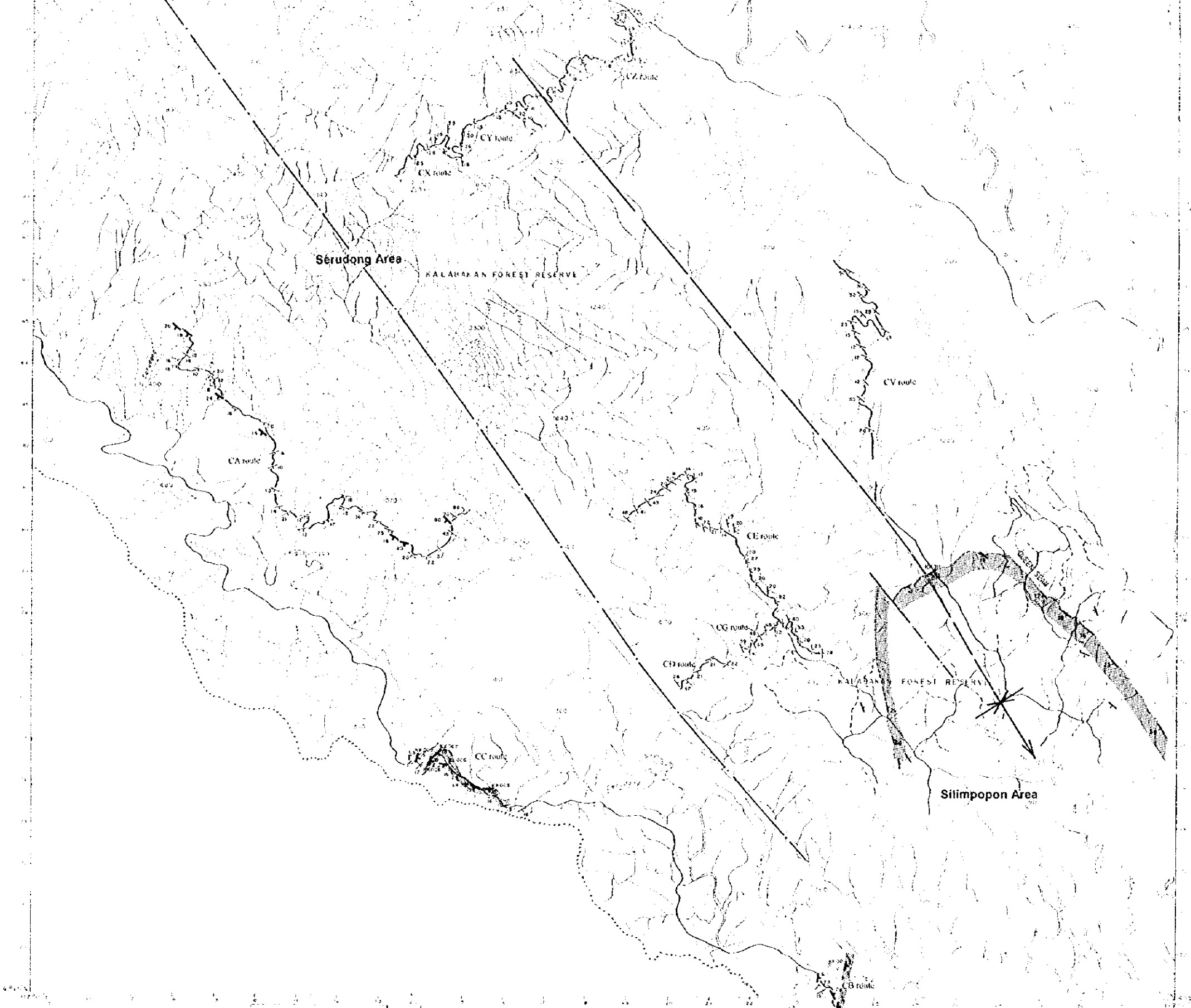
炭層露頭位置図
Gunung Luis
(Sheet No. 4/117/9)

図 2-4-4
Date: 1993年9月

SERUDONG

1.11 / 10





1:50,000 500 1000 1500 2000 2500 3000 3500 4000 4500 5000

	strike and dip of coal with outcrop number
	strike and dip of rock
	mapping route
	coal zone

SCALE 1:50,000

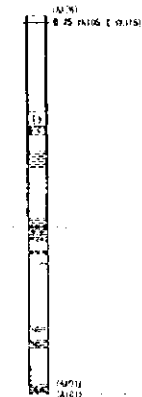


マレーシア国サバ州石炭探査・評価調査
 炭層露頭位置図
 Serudong
 (Sheet No. 4/117/10)
 図 2-4-5 Date: 1999年9月

AX51-AS81



AX(E)



AY01-AY79



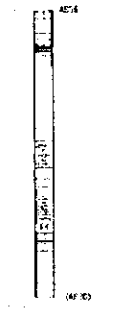
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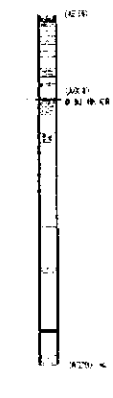
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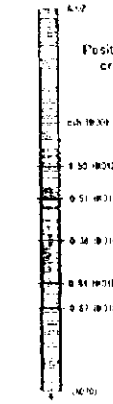
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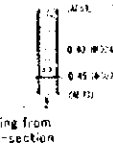
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AD02-AD70



AE50-73



AE30-57



Positioning from cross-section

Positioning from cross-section

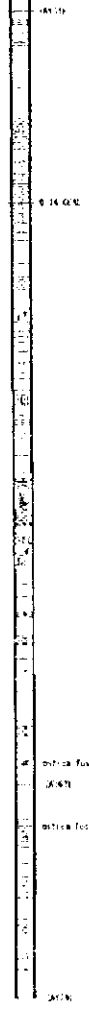
Positioning from cross-section

0 27 1623

0 15 1622

0 15 1621

0 15 1620



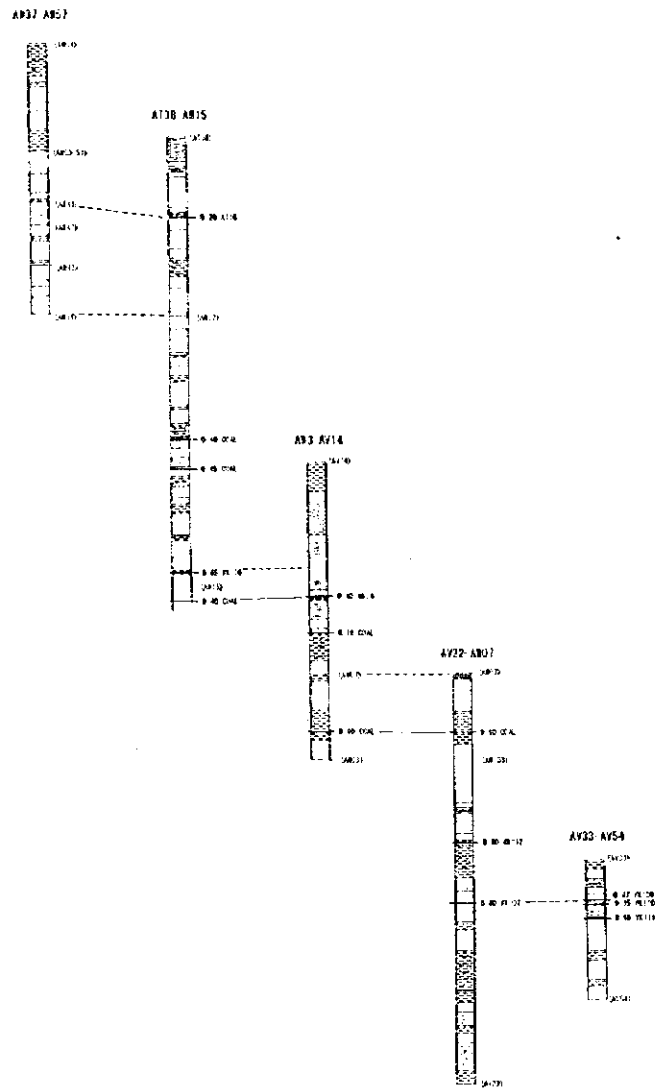
LEGEND

- ① 砂岩
- ② 砂岩
- ③ 砂岩
- ④ 砂岩
- ⑤ 砂岩
- ⑥ 砂岩
- ⑦ 砂岩
- ⑧ 砂岩
- ⑨ 砂岩
- ⑩ 砂岩
- ⑪ 砂岩
- ⑫ 砂岩
- ⑬ 砂岩
- ⑭ 砂岩
- ⑮ 砂岩
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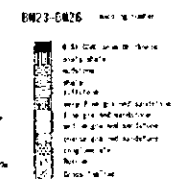
マレーシア国サバ州石炭探査・評価調査
 地層柱状図
 マリバウ (中央-東部)
 図 2-6-1

Scale 1 / 4,000

Date 1990年9月

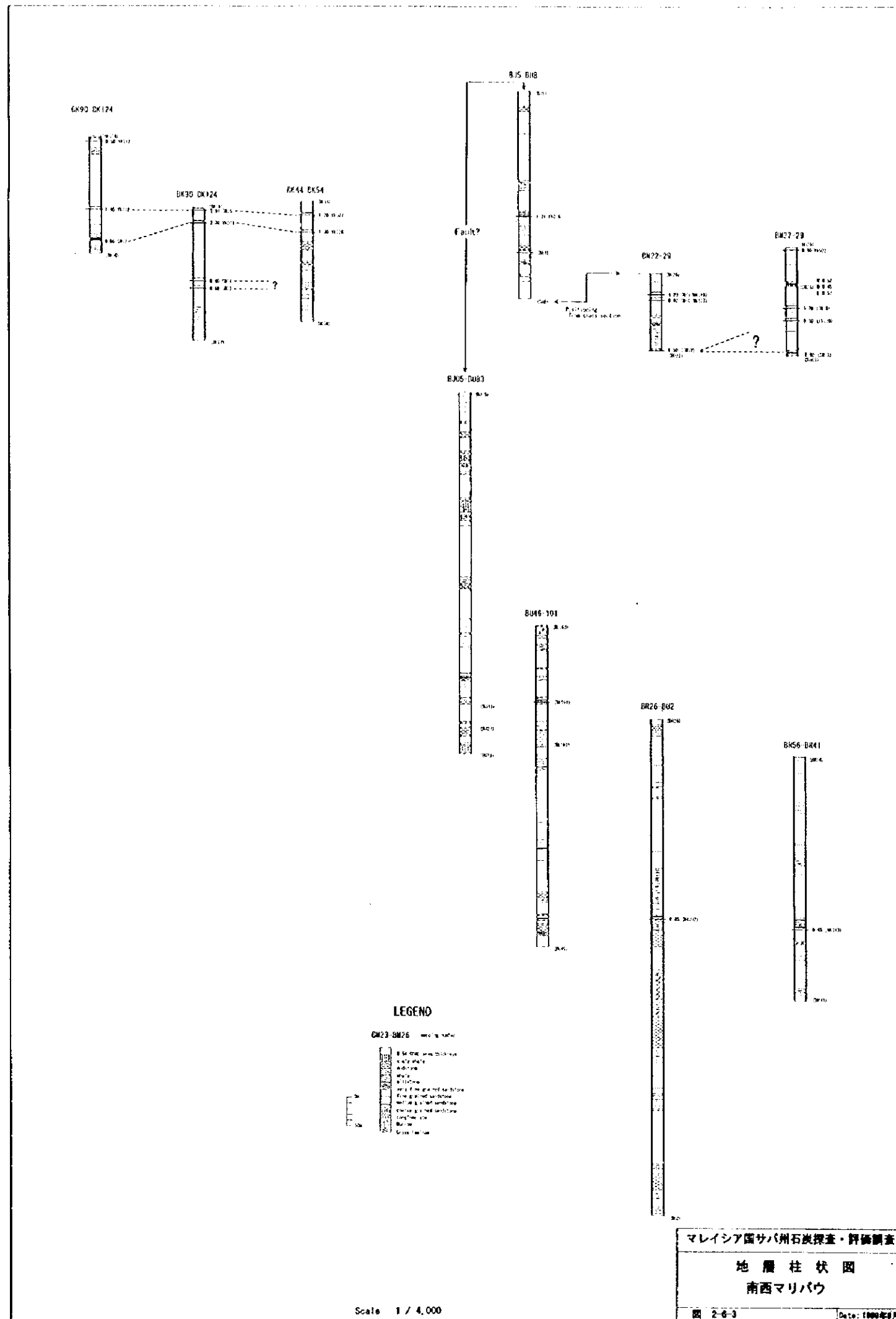


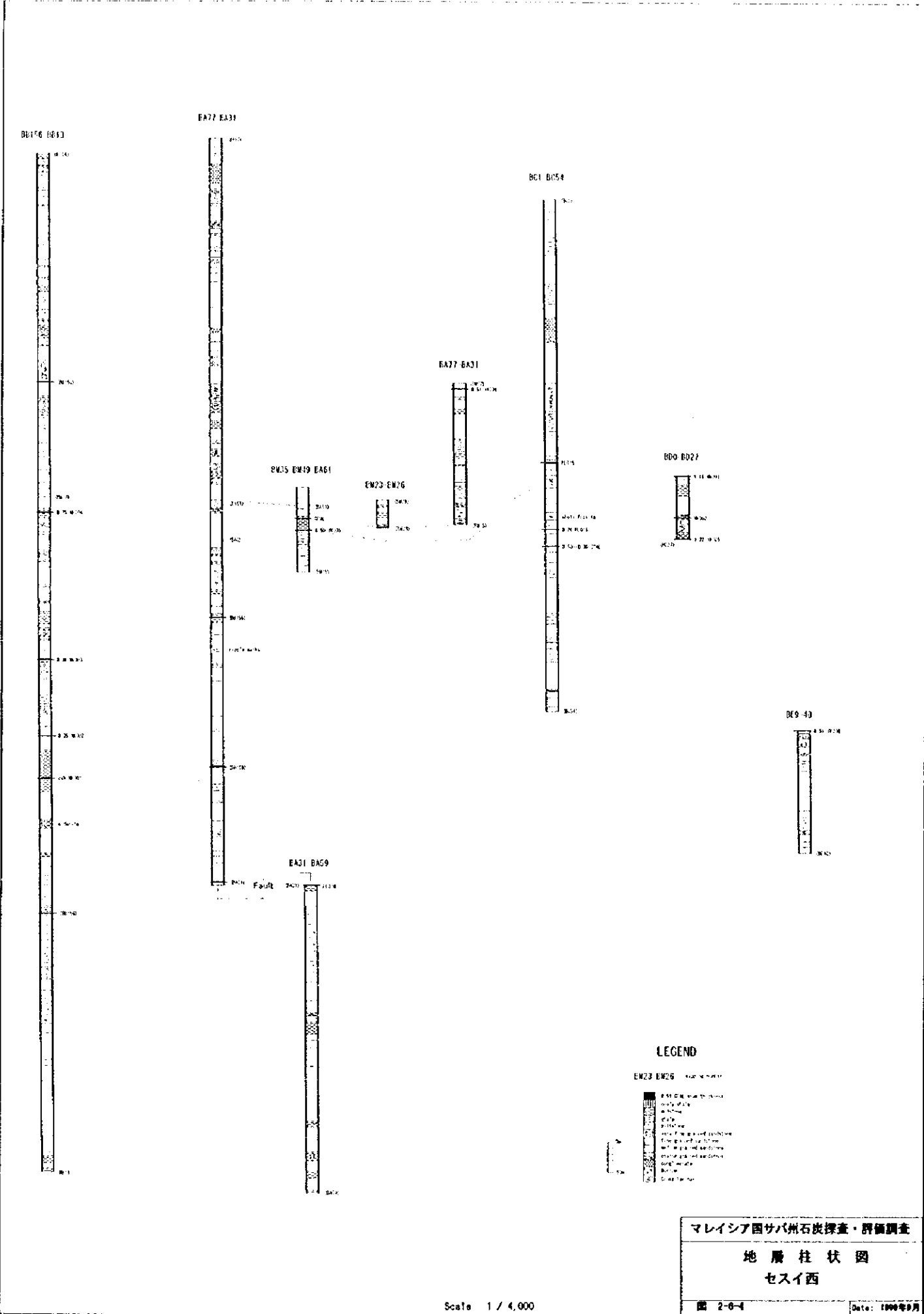
LEGEND

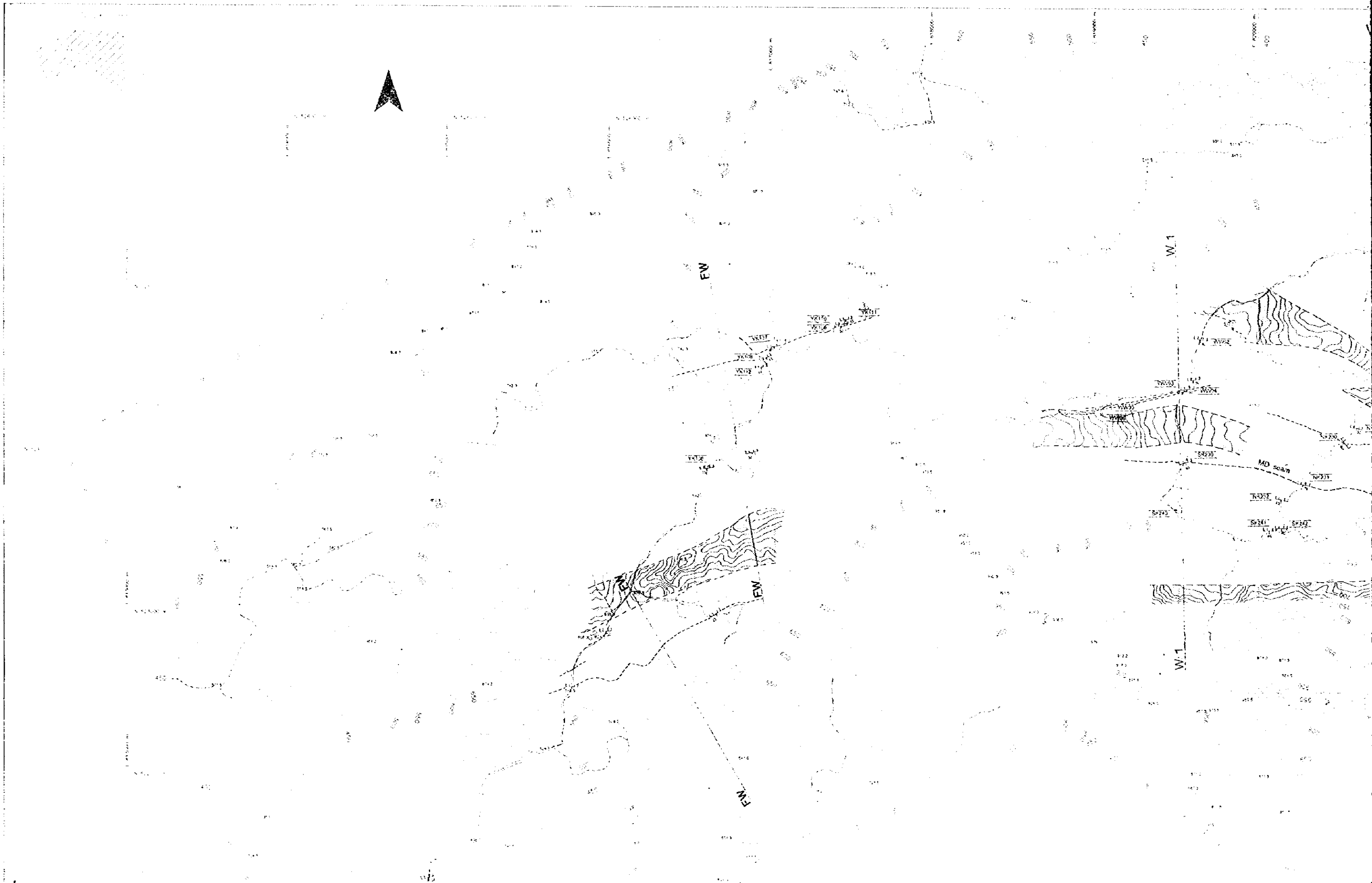


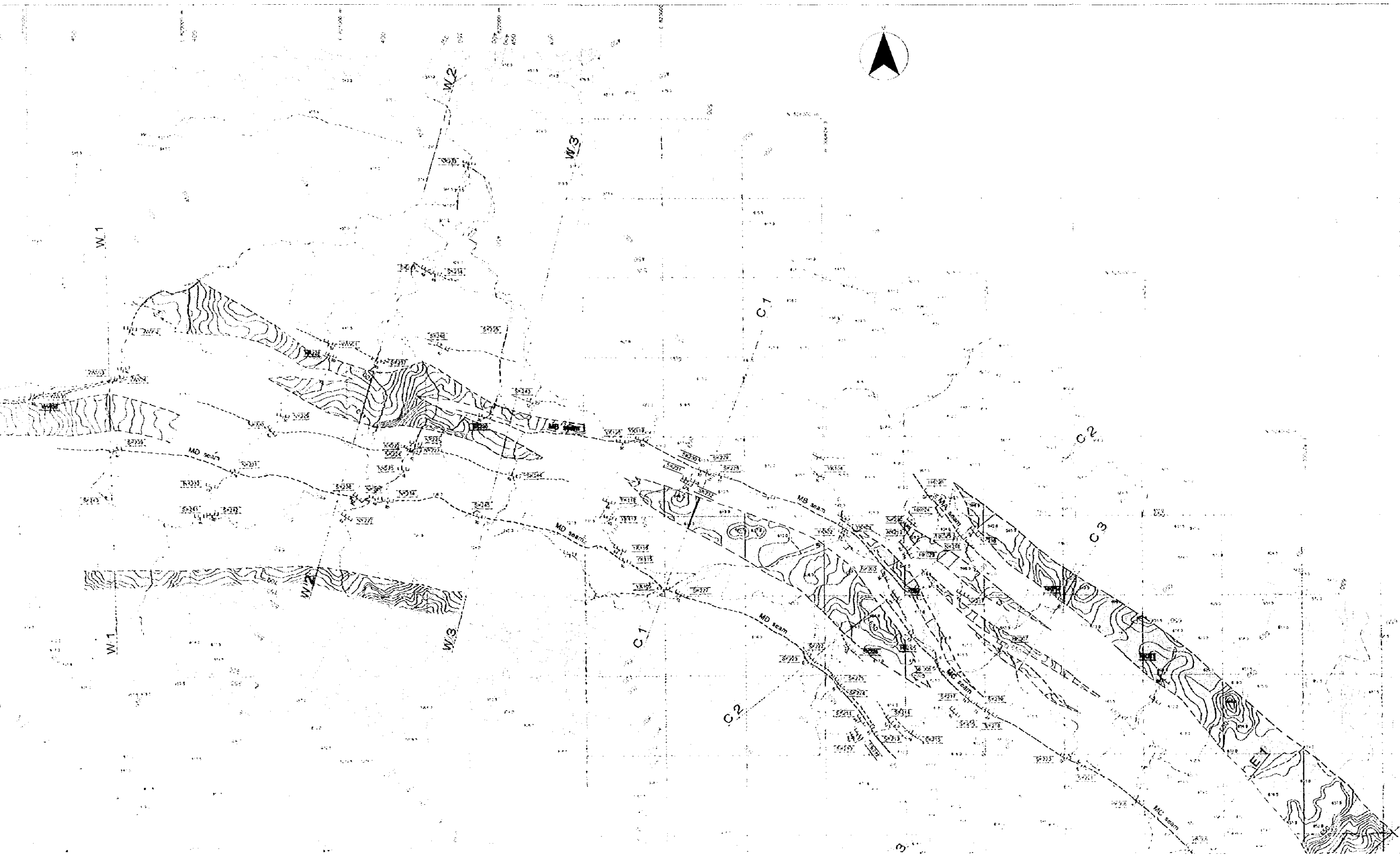
マレーシア国サバ州石炭探査・評価調査
 地層柱状図
 マリバウ (西部)
 図 2-5-2 Date: 1968年9月

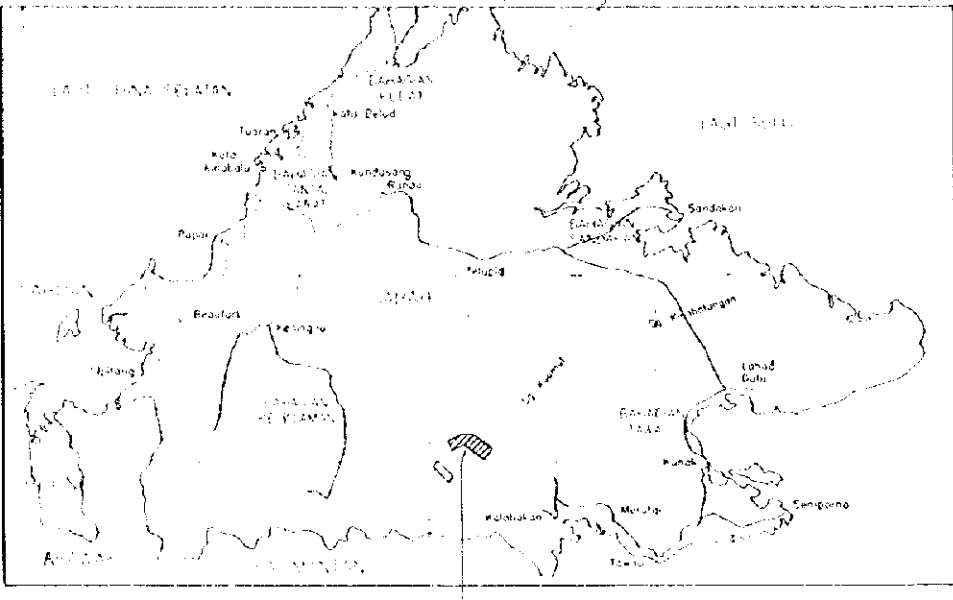
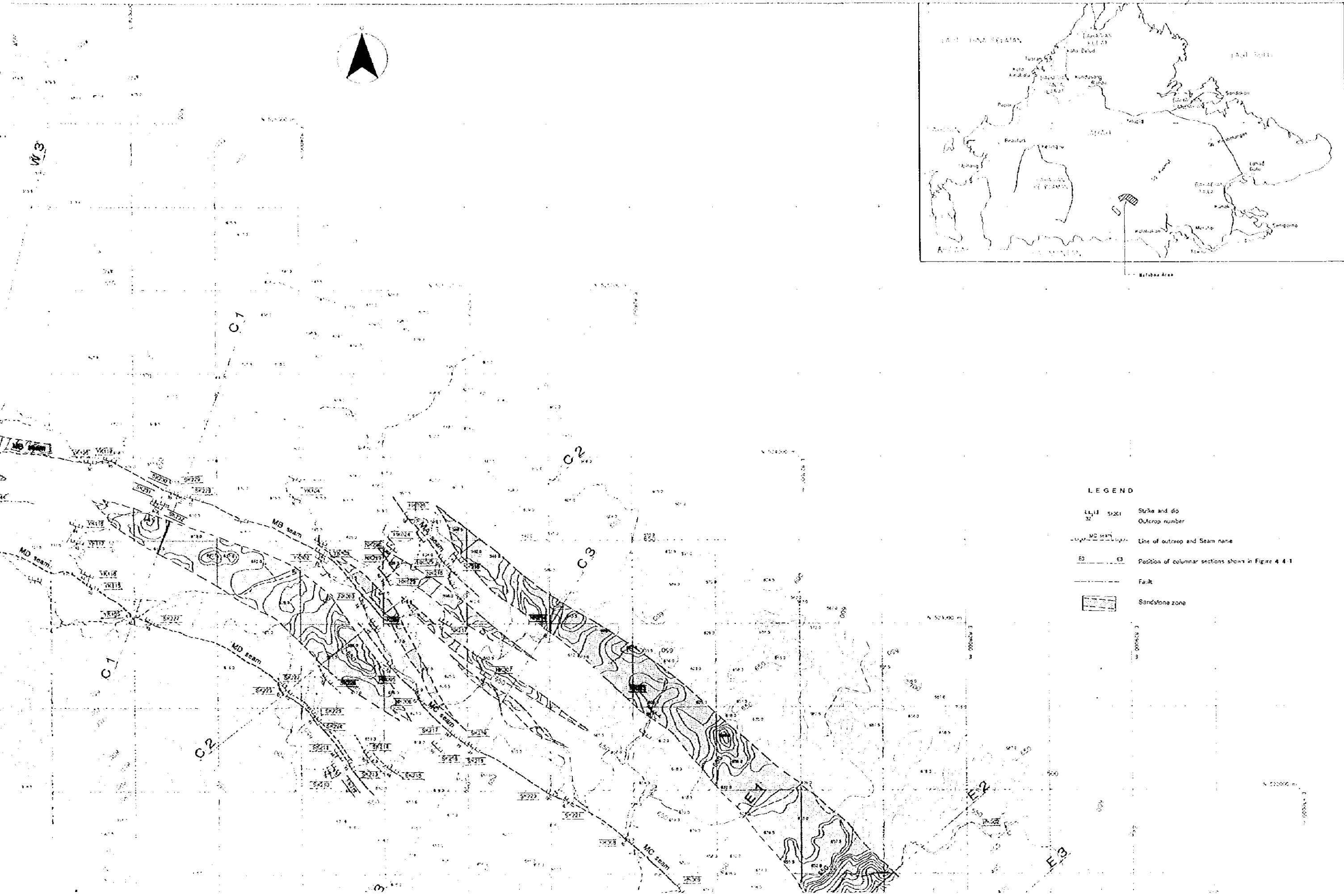
Scale 1 / 4,000











LEGEND

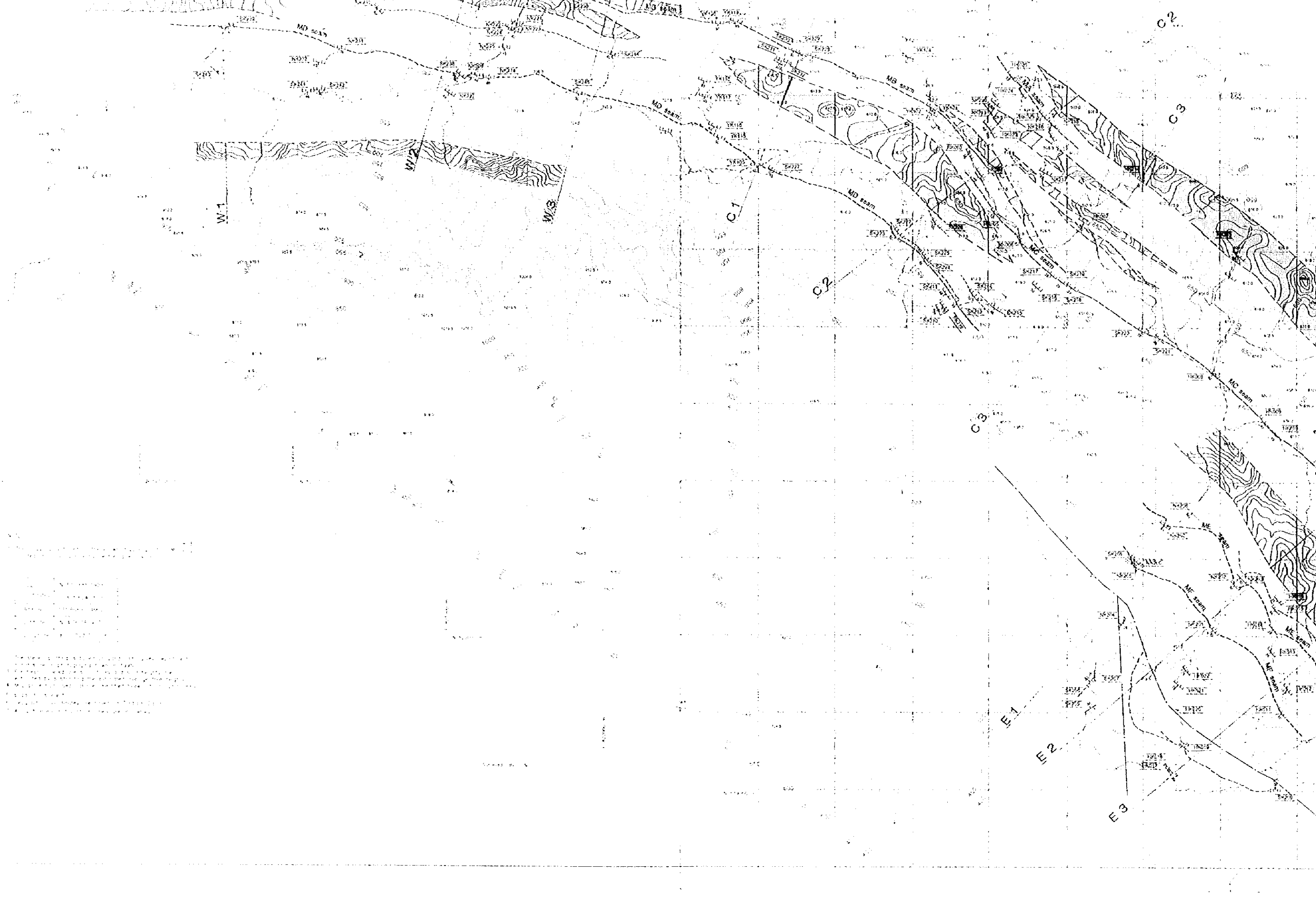
- L1:1 5:261 32 Strike and dip
- W3 Outcrop number
- MD seam Line of outcrop and Seam name
- E1 E2 E3 Position of columnar sections shown in Figure 4.4.1
- Fault
- Sandstone zone

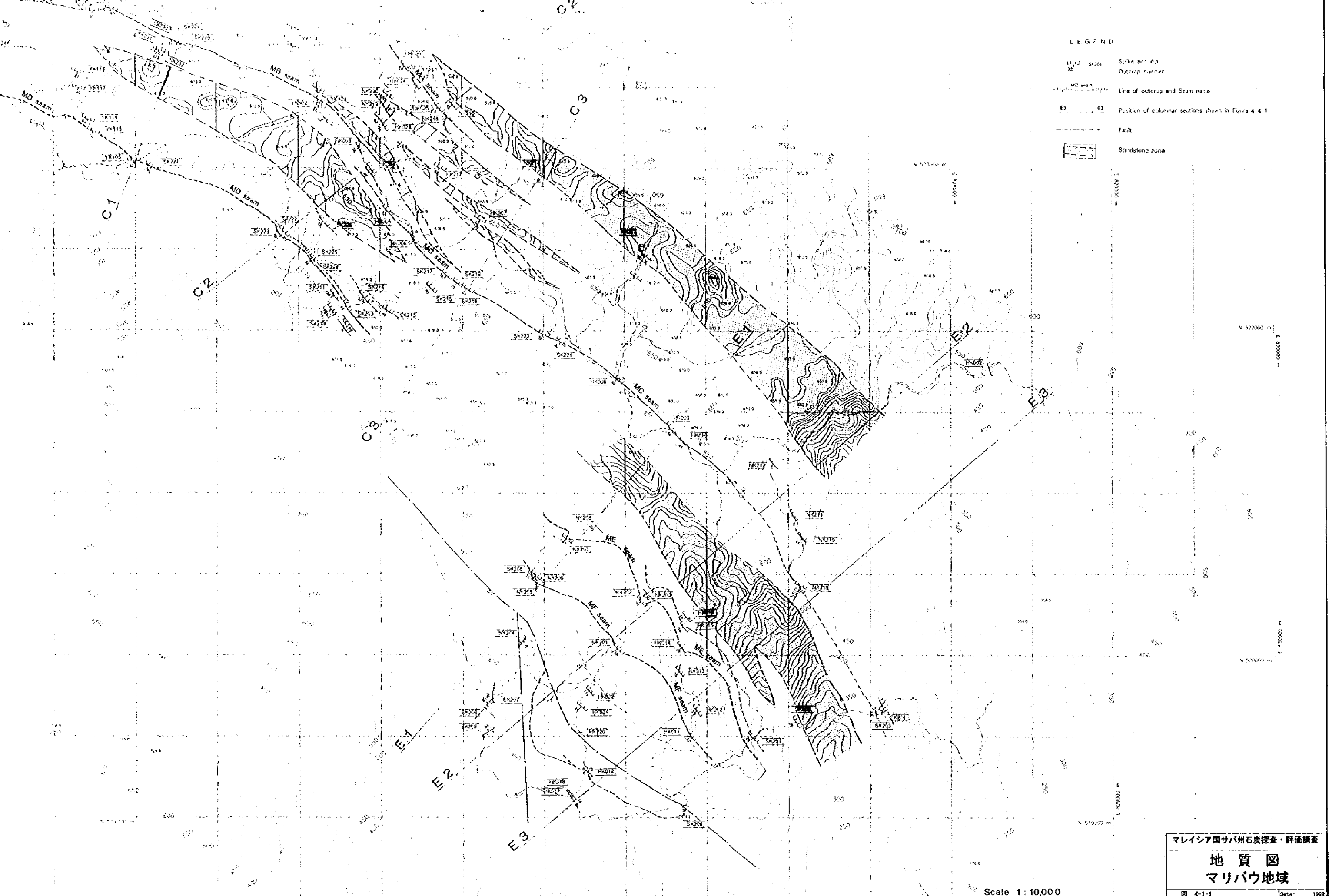


LEGEND

- Road
- Contour line
- Spot height
- Spot height
- Spot height
- Contour line

1. The map is based on the work of the U.S. Army Corps of Engineers, District of Columbia, and the U.S. Army Corps of Engineers, District of Columbia.
2. The map is based on the work of the U.S. Army Corps of Engineers, District of Columbia, and the U.S. Army Corps of Engineers, District of Columbia.
3. The map is based on the work of the U.S. Army Corps of Engineers, District of Columbia, and the U.S. Army Corps of Engineers, District of Columbia.
4. The map is based on the work of the U.S. Army Corps of Engineers, District of Columbia, and the U.S. Army Corps of Engineers, District of Columbia.
5. The map is based on the work of the U.S. Army Corps of Engineers, District of Columbia, and the U.S. Army Corps of Engineers, District of Columbia.
6. The map is based on the work of the U.S. Army Corps of Engineers, District of Columbia, and the U.S. Army Corps of Engineers, District of Columbia.
7. The map is based on the work of the U.S. Army Corps of Engineers, District of Columbia, and the U.S. Army Corps of Engineers, District of Columbia.



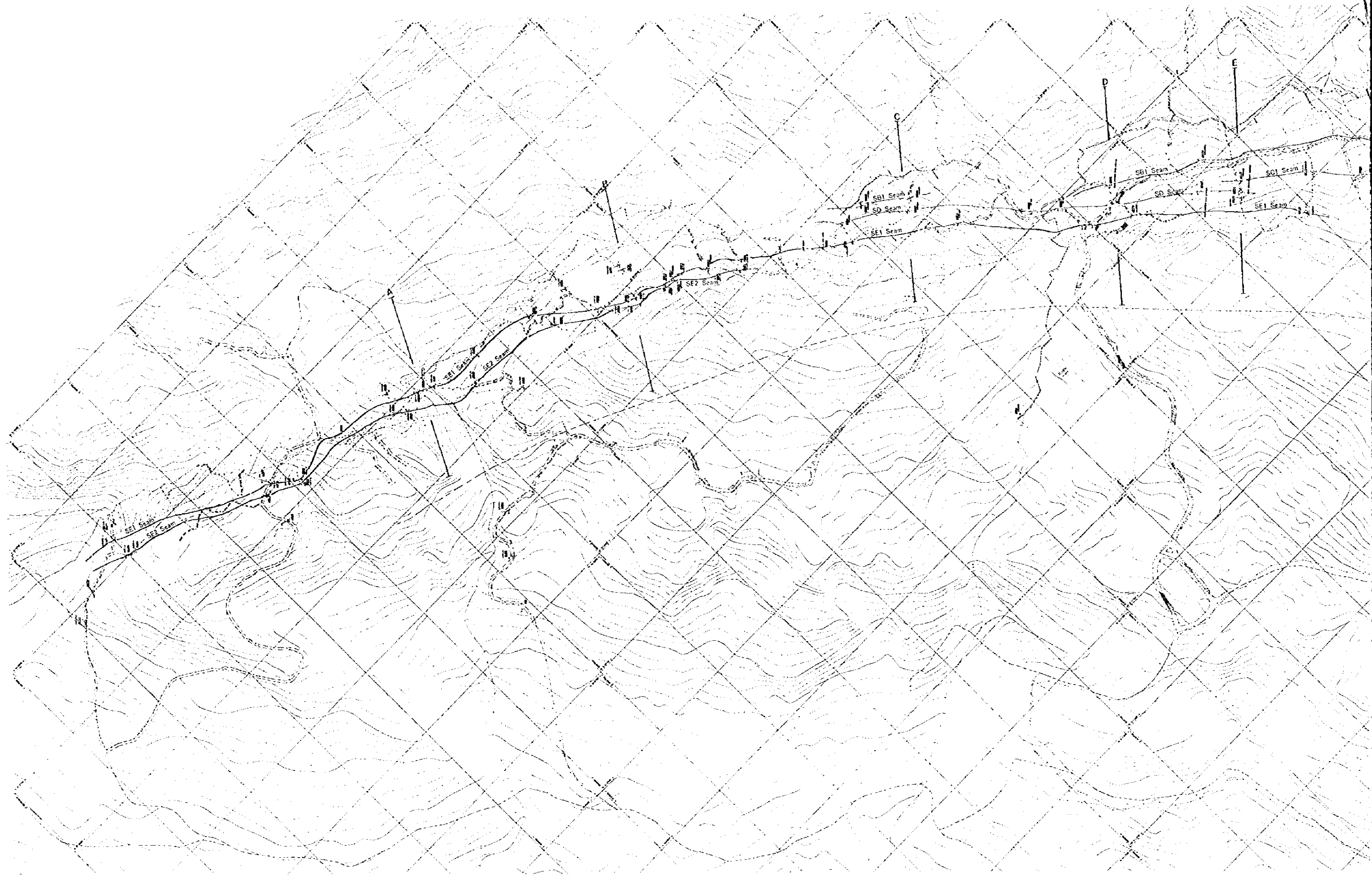


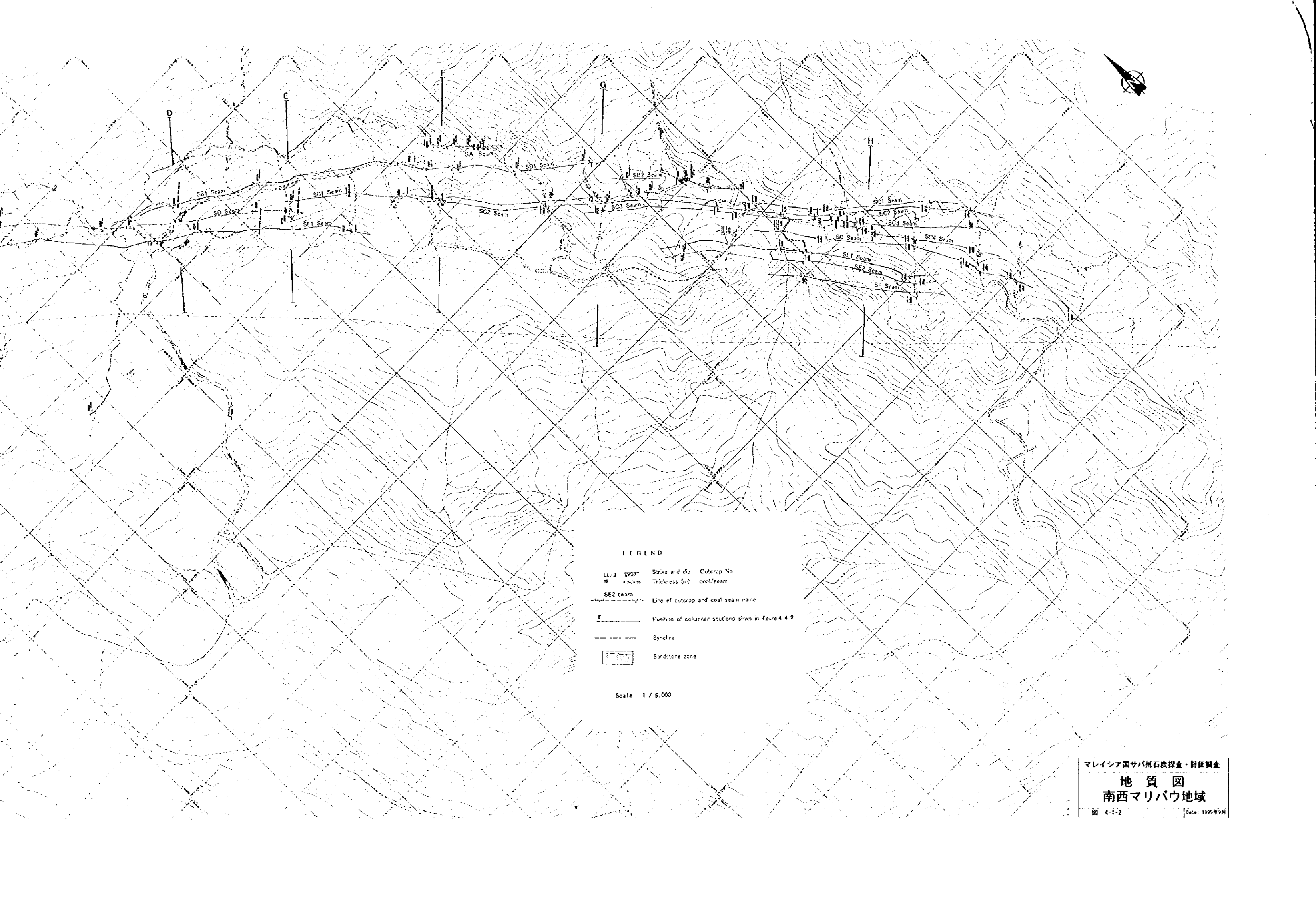
LEGEND

5221	5226	Strike and dip
5222	5227	Outcrop number
MD seam		Line of outcrop and Seam name
E1	E1	Position of columnar sections shown in Figure 4-4-1
---		Fault
[Stippled Box]		Sandstone zone

マレーシア国サバ州石炭探査・評価調査
地質図
マリバウ地域
 図 4-1-1 Date 1999

Scale 1:10,000





LEGEND

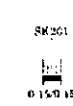
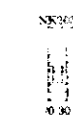
- Strike and dip Outcrop No.
- Thickness (m) coal/seam
- SE2 seam Line of outcrop and coal seam name
- E Position of columnar sections shown in figure 4.4.2
- Syncline
- Sandstone zone

Scale 1 / 5,000

(E1)

(E2)

(E3)



MF Seam

MF Seam

ME Seam

ME Seam

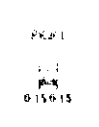
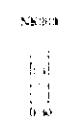
MD Seam

MD Seam

(C2)

(C3)

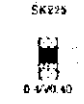
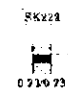




MD Seam



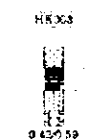
MD Seam



MC Seam



MC Seam

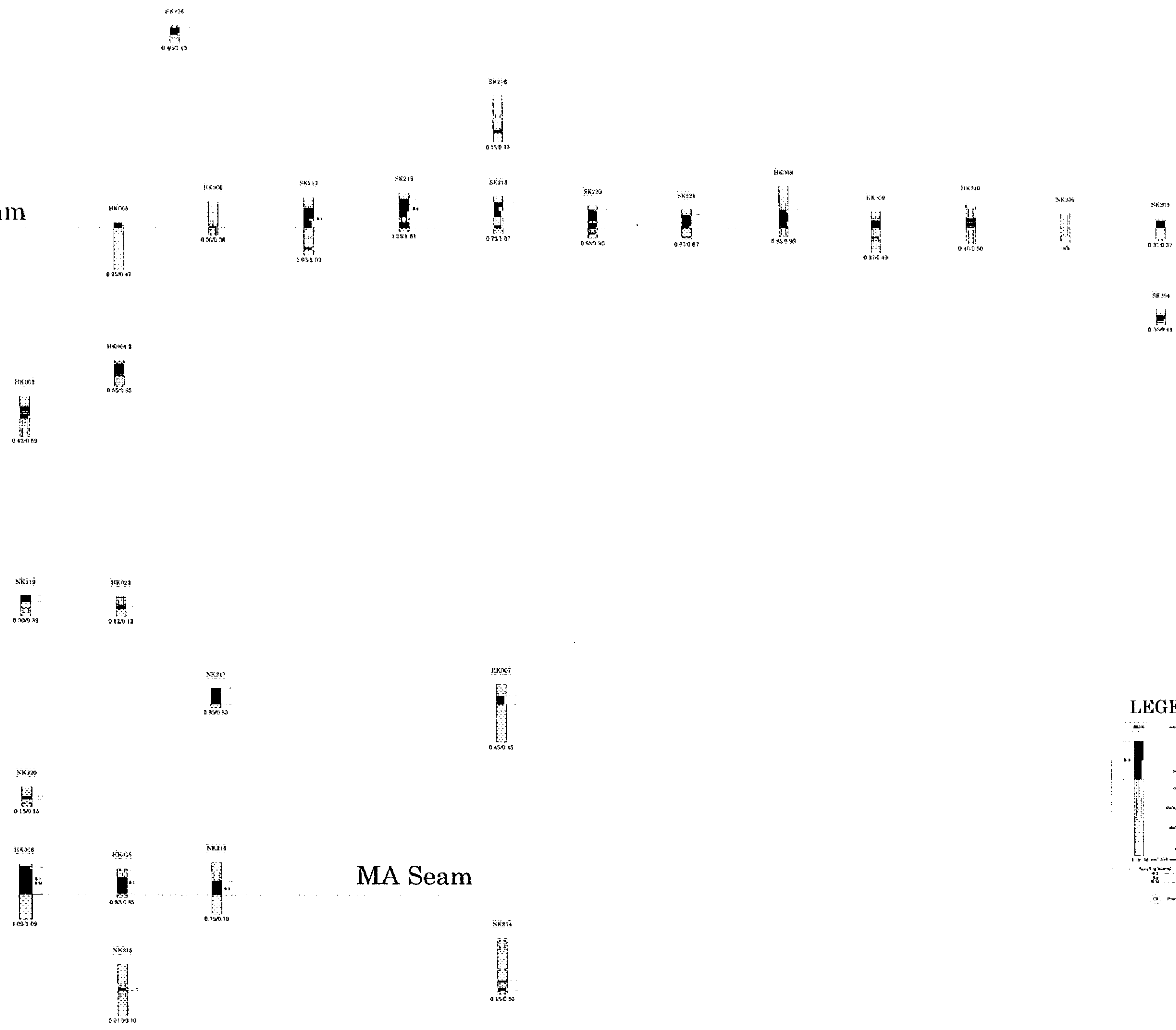


MC Seam

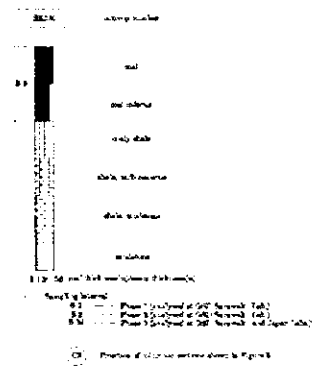
MC Seam

MA Seam

MA Seam



LEGEND



(FW)

(W1)

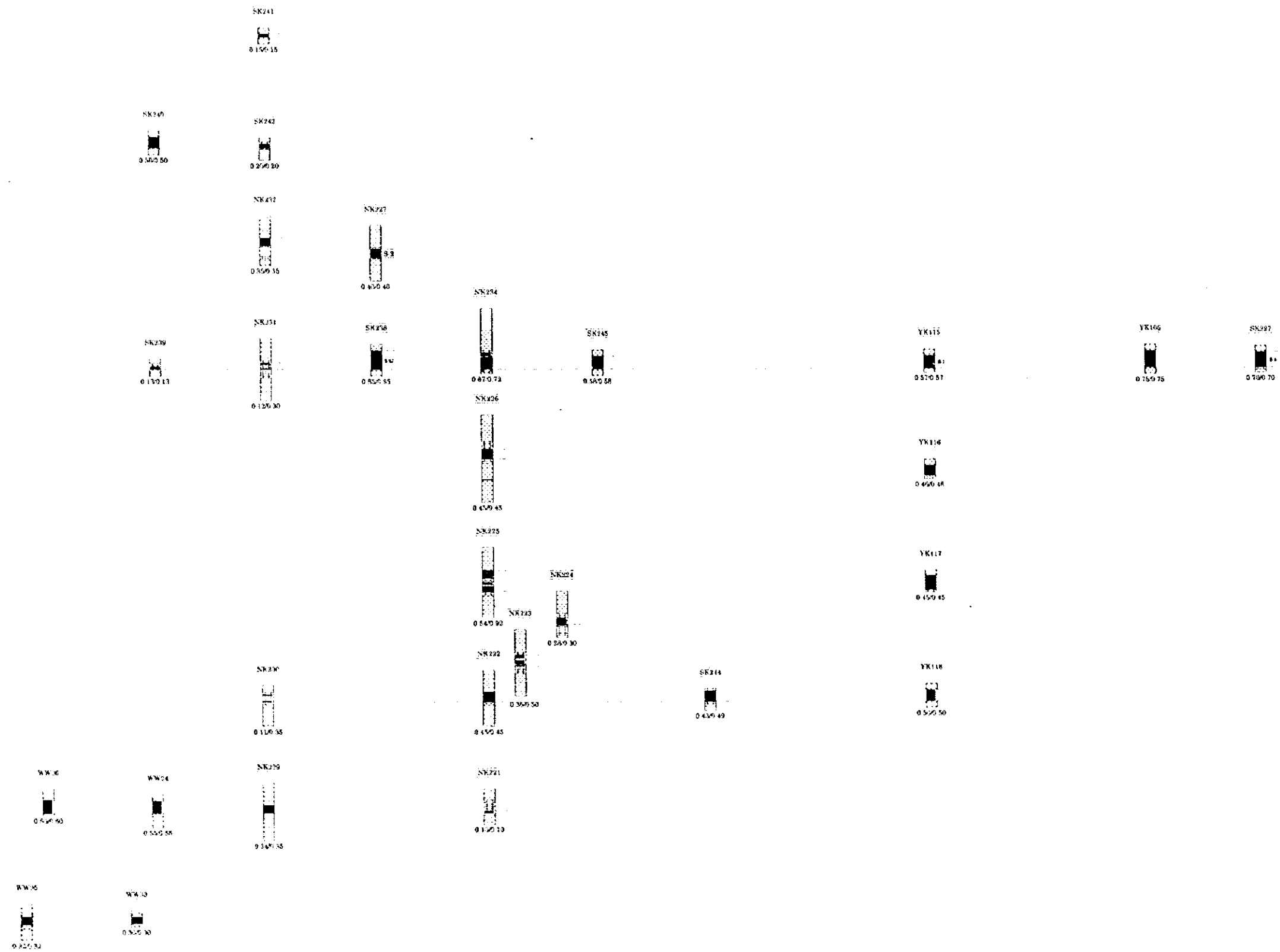
(W2)

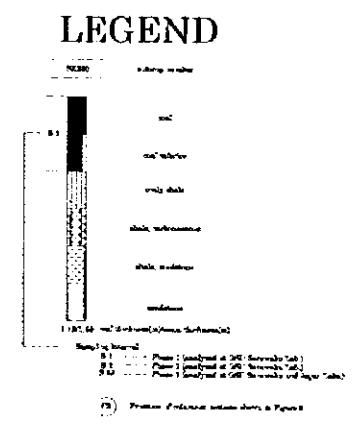
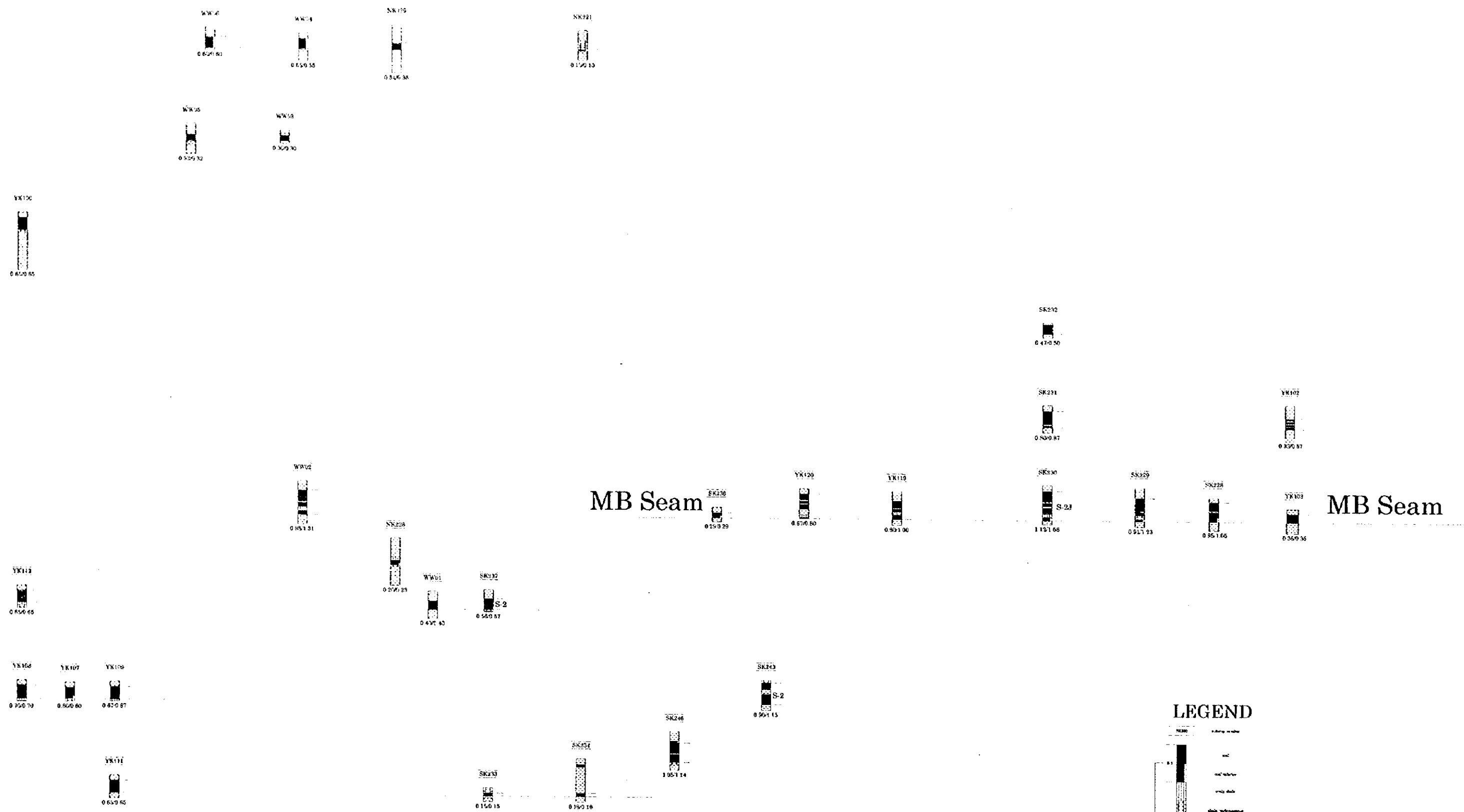
(W3)

(C1)

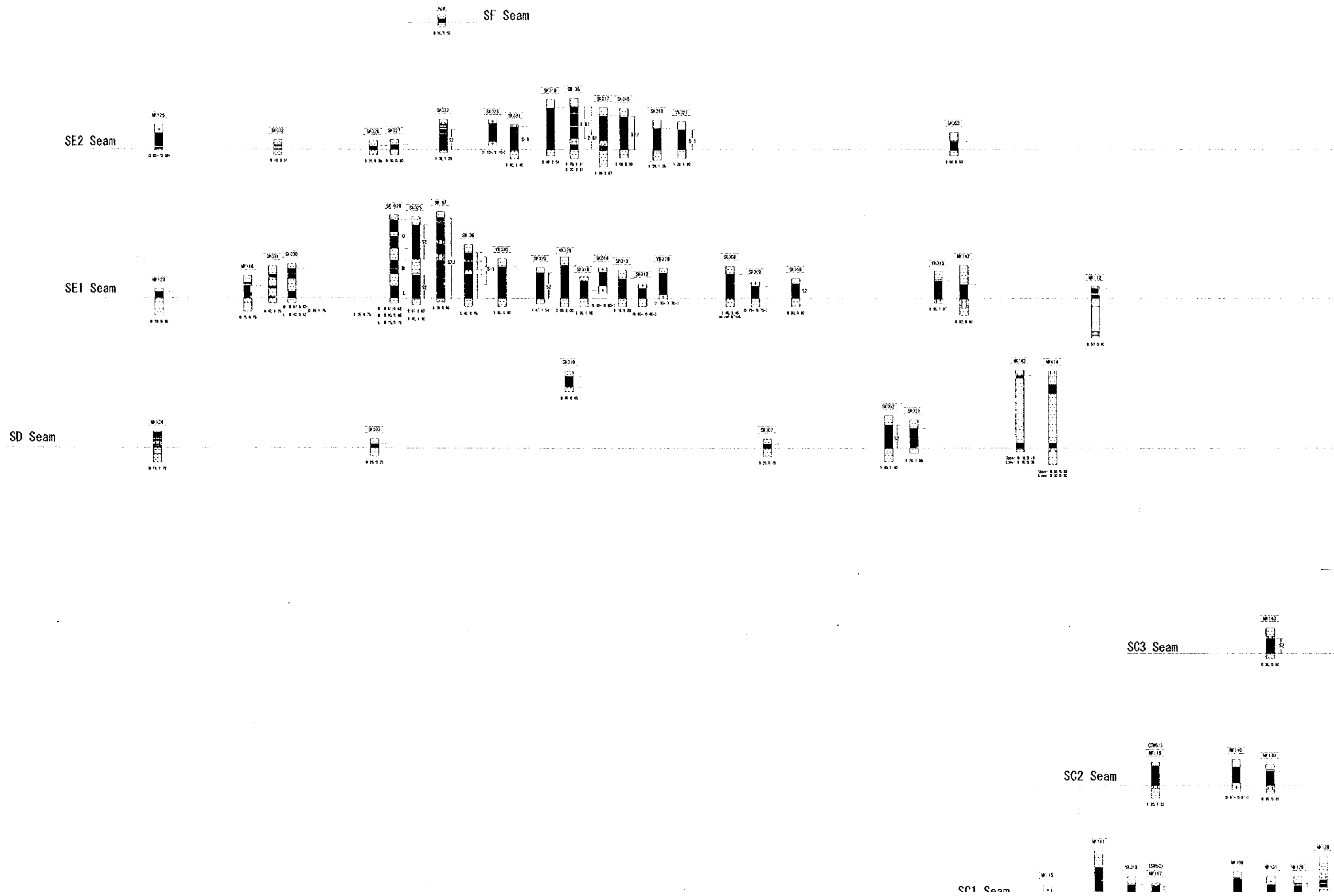
MD Seam

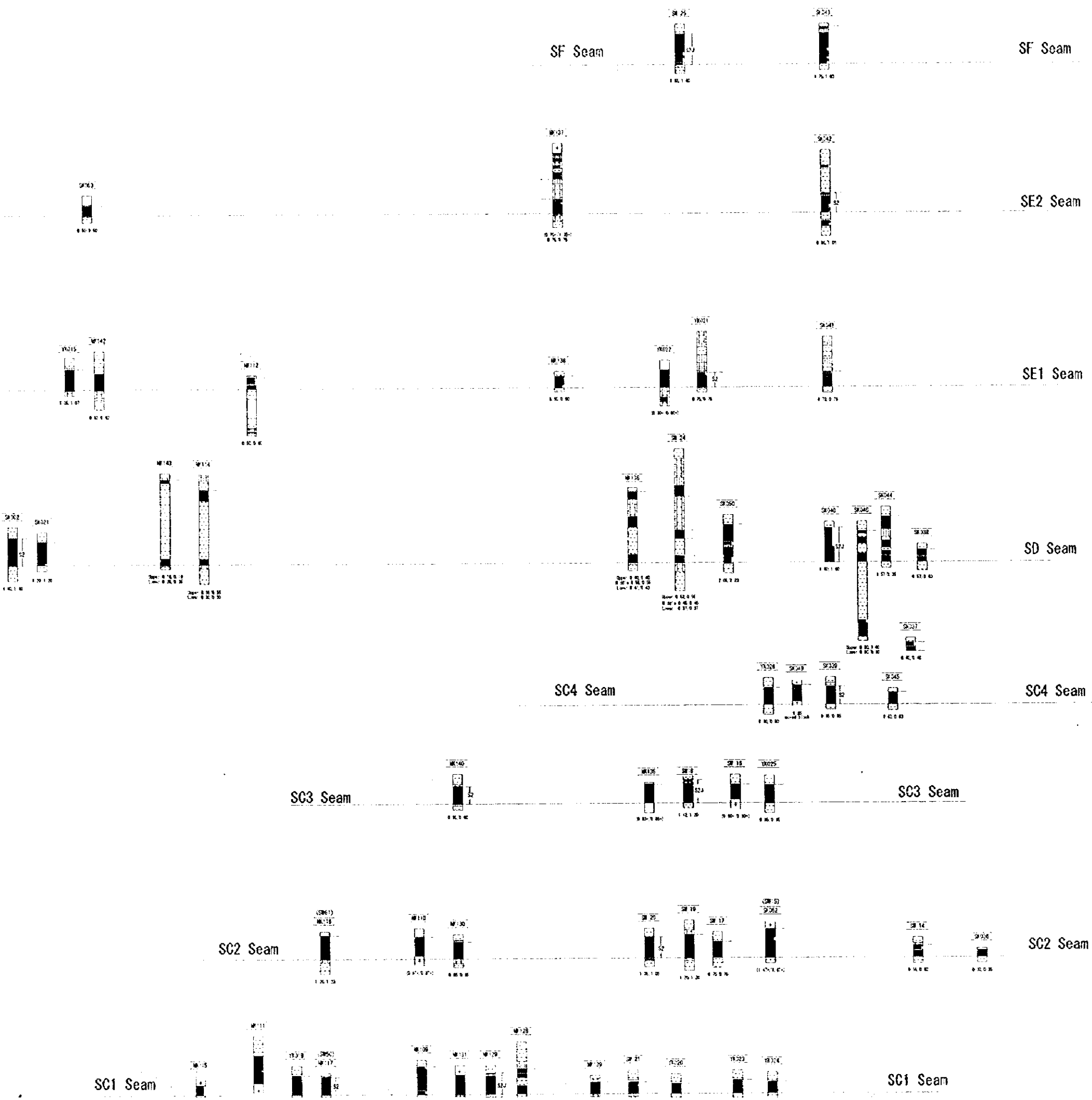
MD Seam



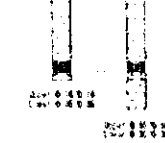
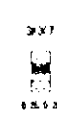


マレーシア国サバ州石炭探査・評価調査
炭層柱状図
 マリバウ地域 (西部)
 図 4-3-2 Date: 1999年9月





SD Seam



SC3 Seam



SC2 Seam



SC1 Seam



SB2 Seam



SB1 Seam

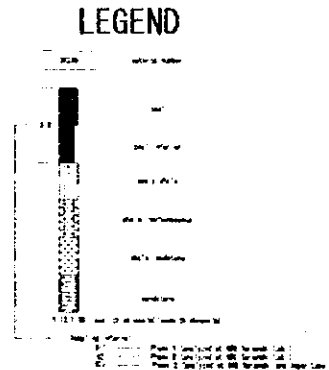
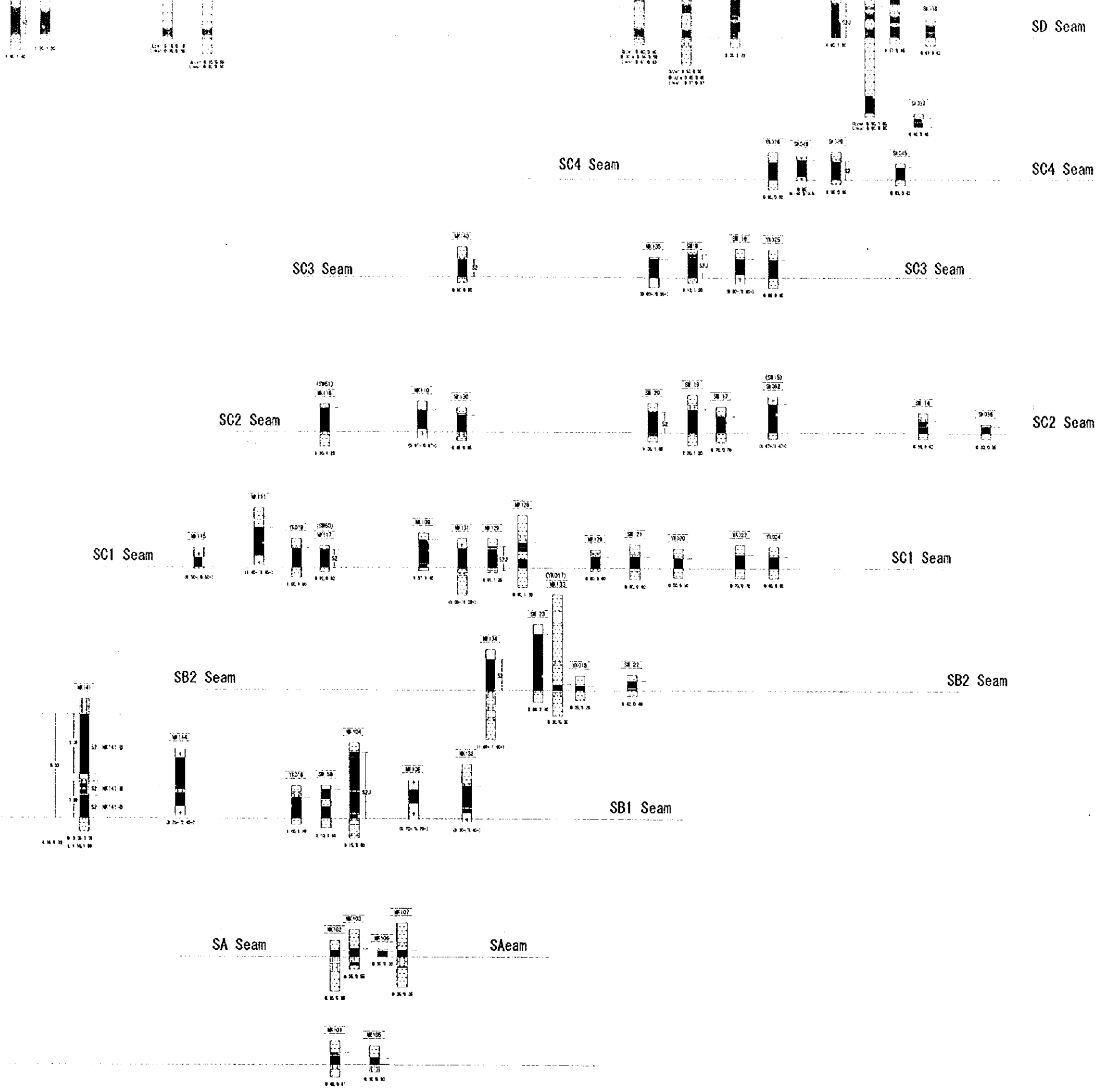


SA Seam



SA Seam





JICA