

LEGEND FOR GEOLOGICAL MAPS (SCALE : 1/5,000 OR 1/10,000)

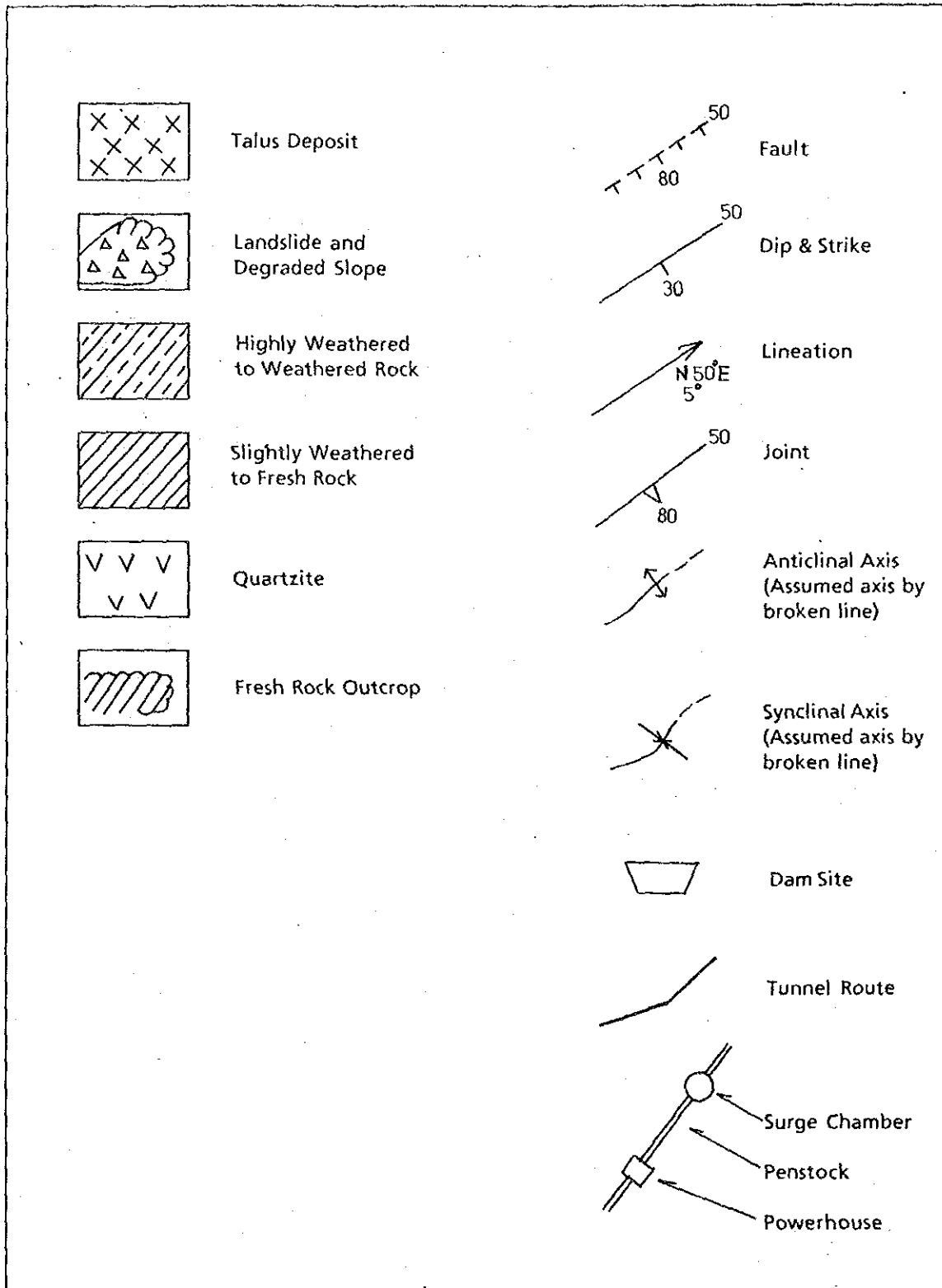
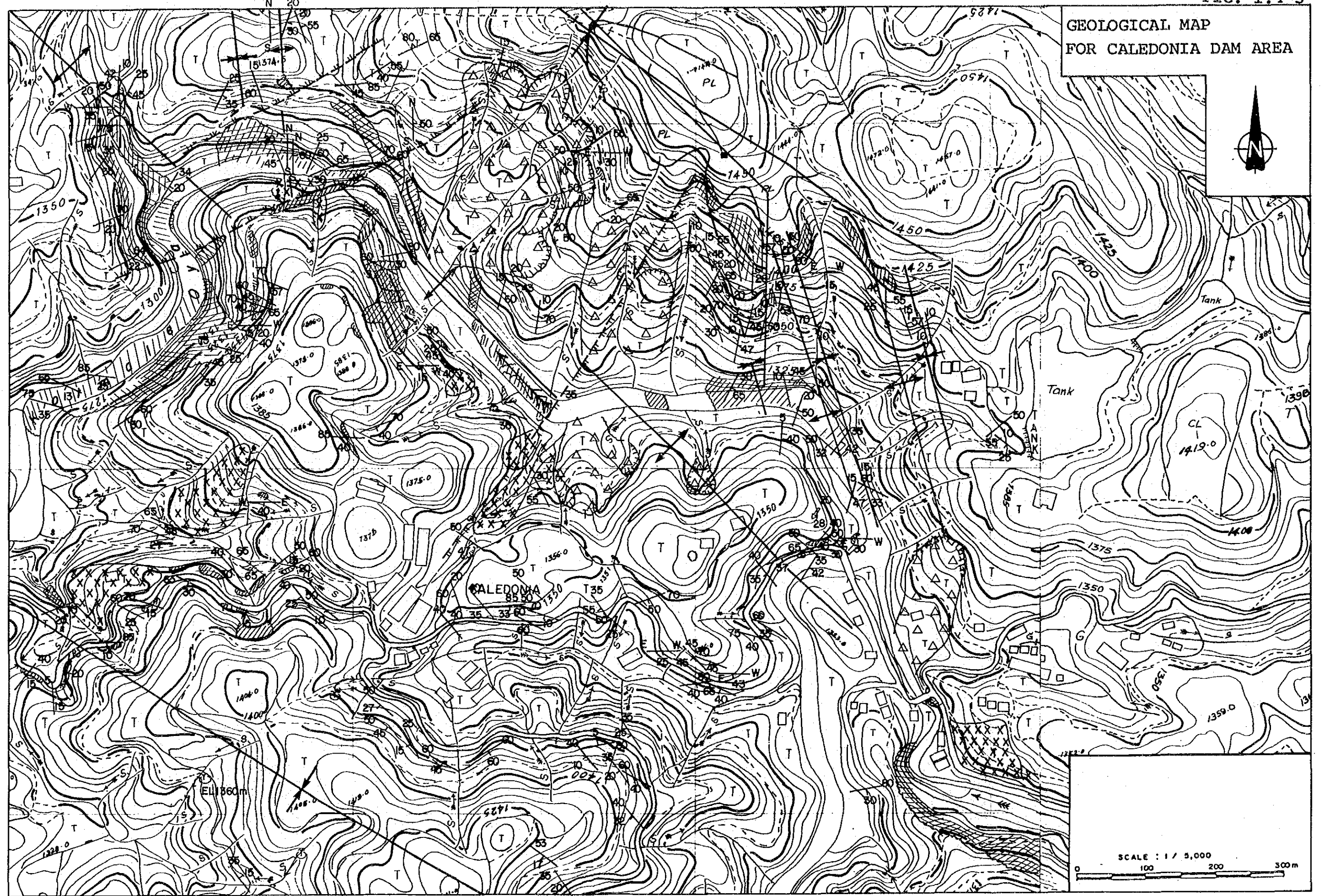




FIG. I.4-3





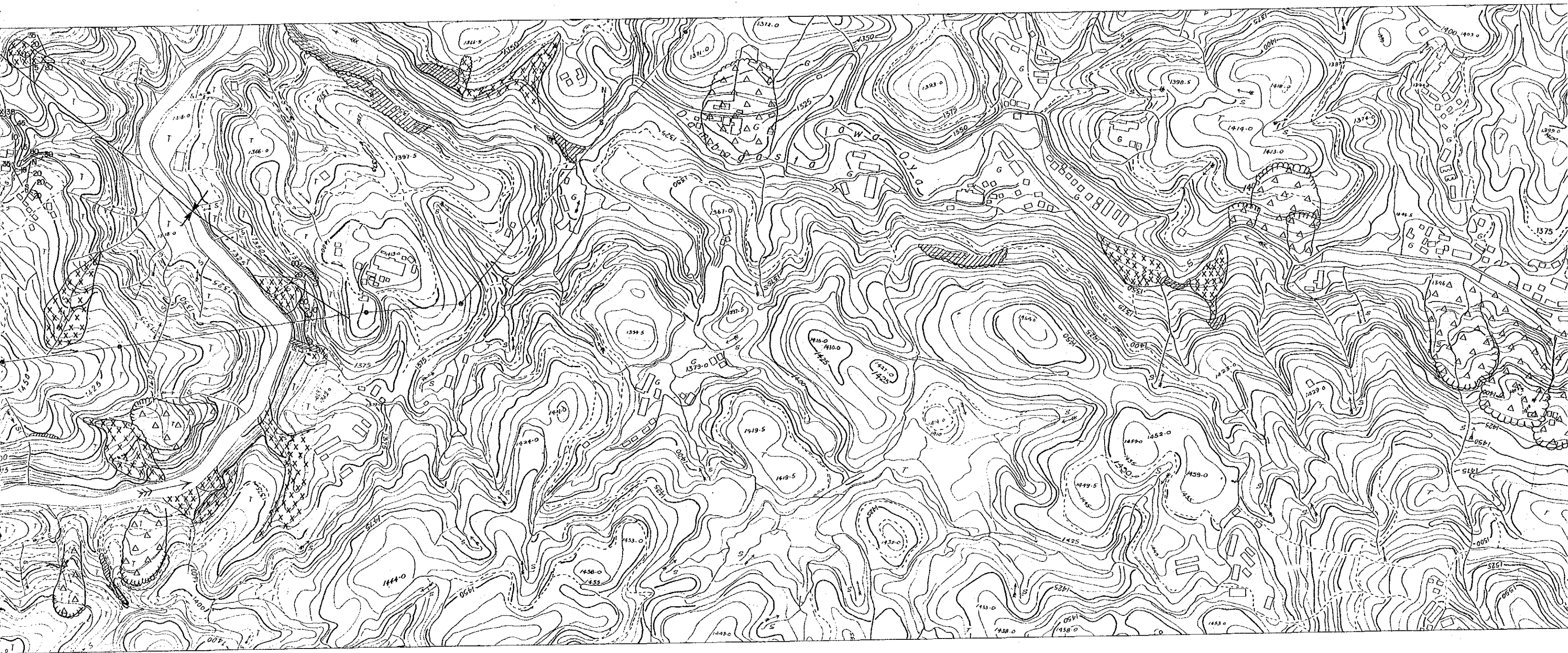
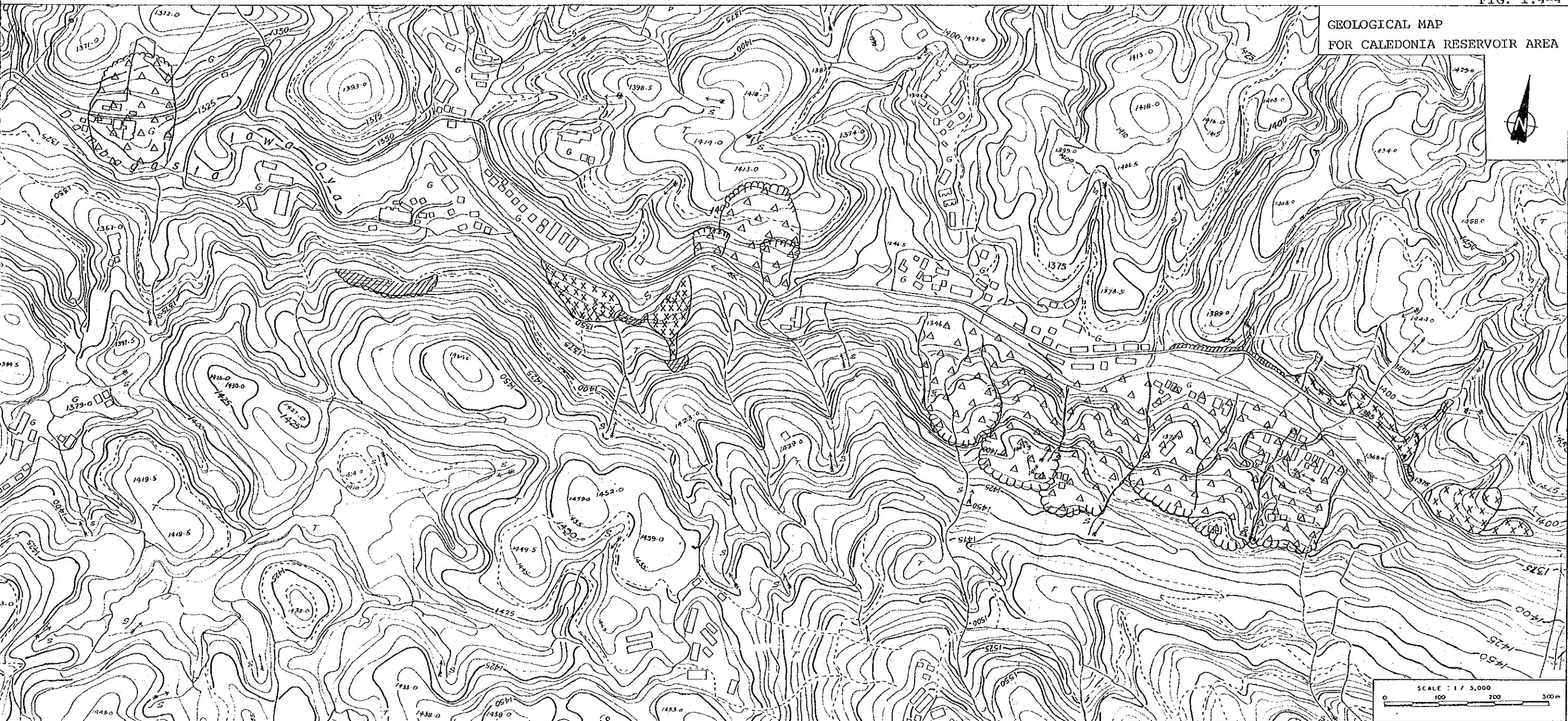
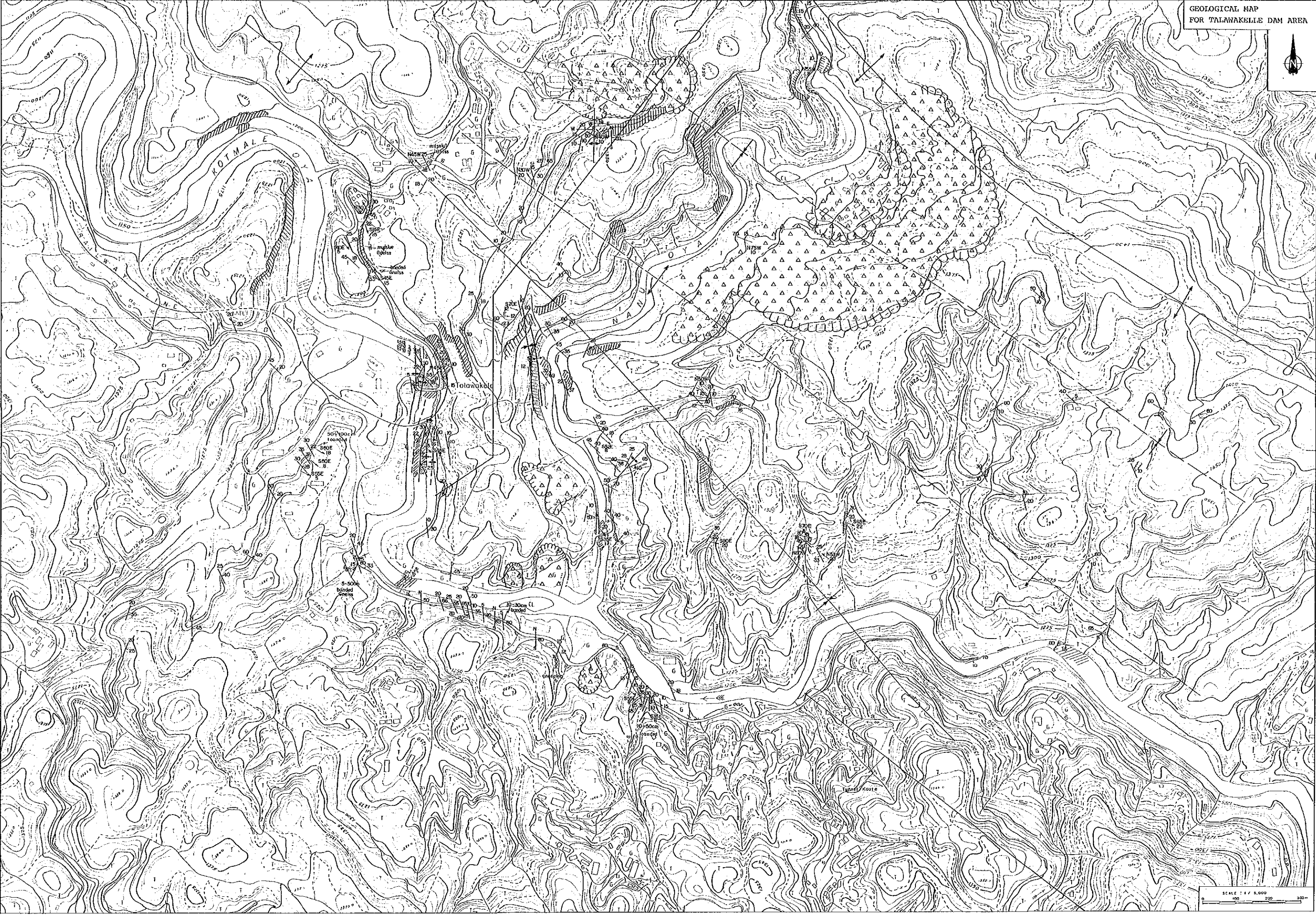


FIG. I.4-4



GEOLOGICAL MAP FOR TALAWAKELLE DAM AREA



SCALE : 1 / 5,000

GEOLOGICAL MAP FOR CALEDONIA P/S AREA



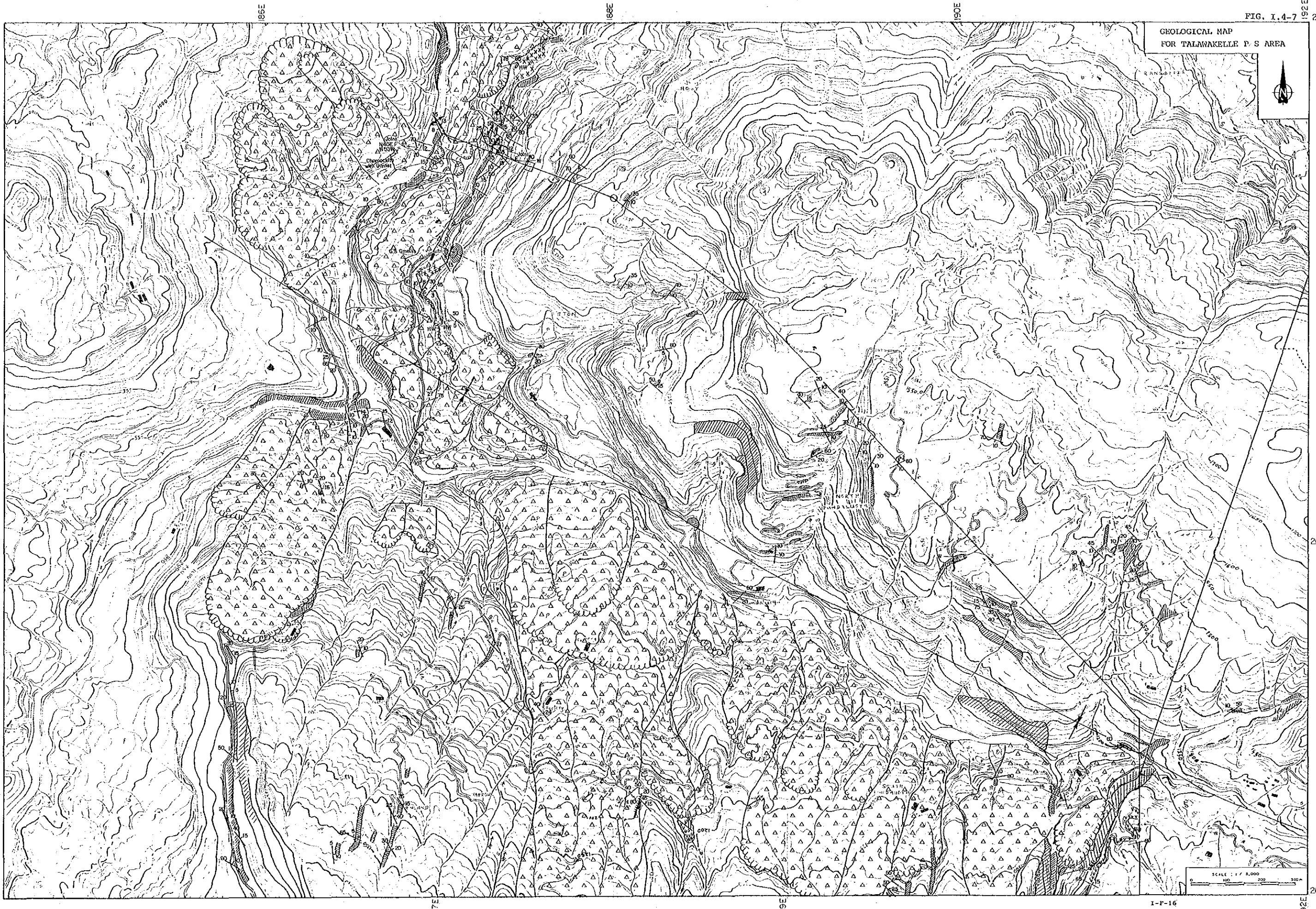


GEOLOGICAL MAP  
FOR TALAWAKELE P. S. AREA



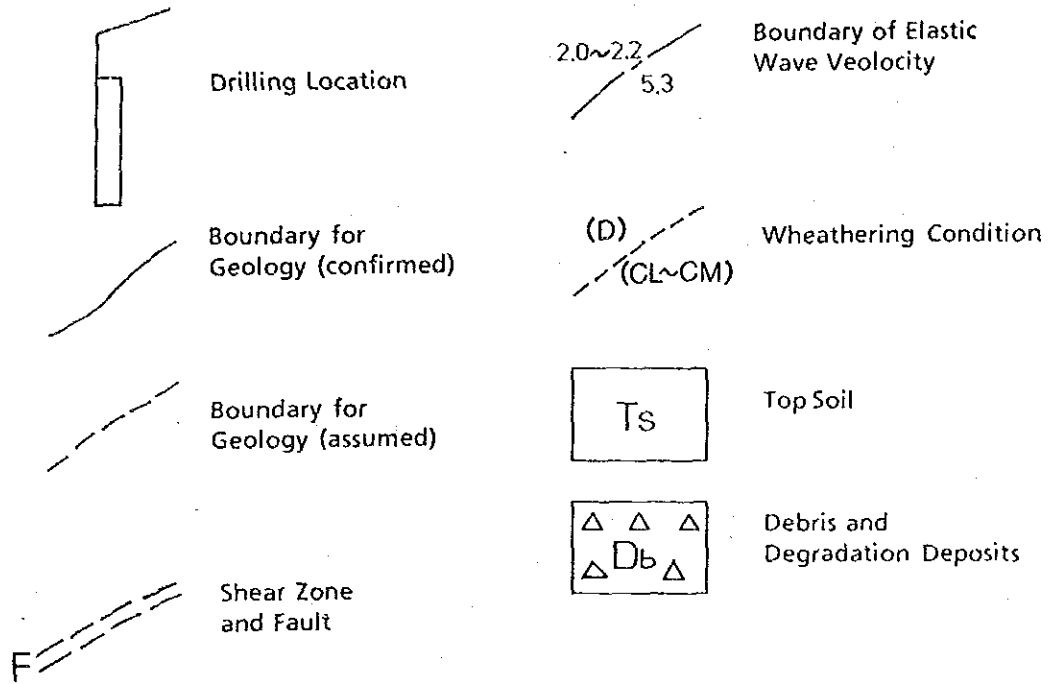
SCALE 1" = 2,000'

1-P-16





## LEGEND FOR GEOLOGICAL SECTIONS



### VELOCITY LAYER STRUCTURE

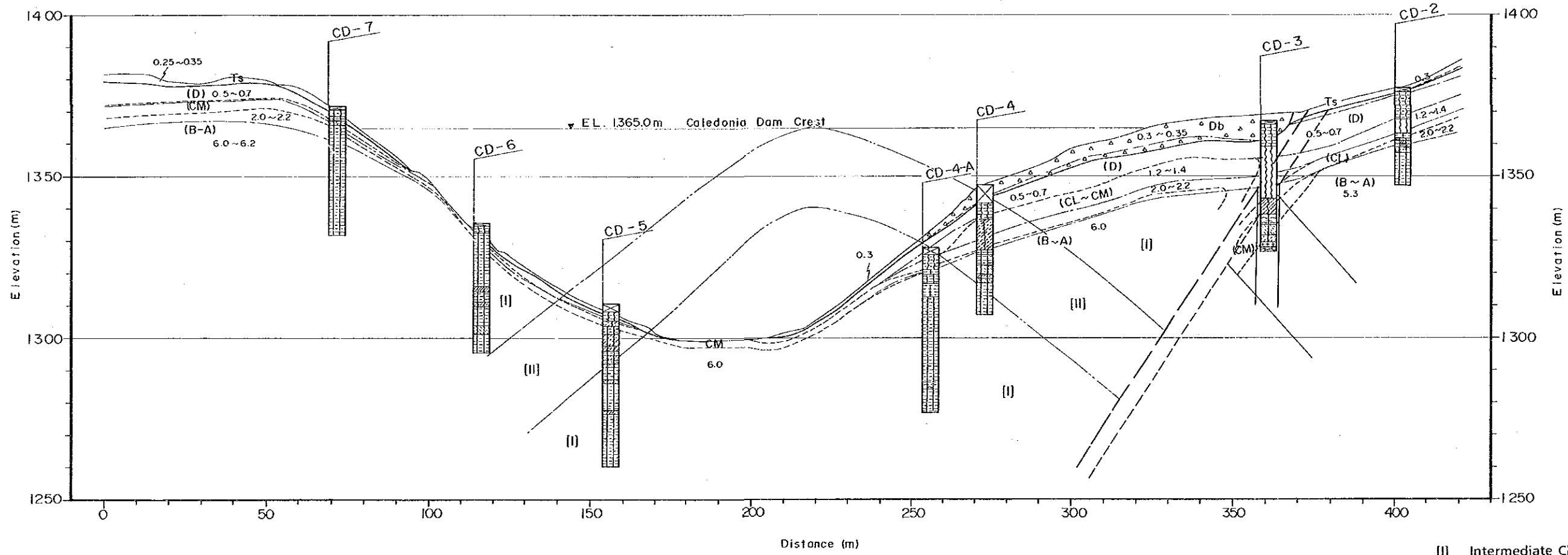
Velocity Layer	Velocity (km/sec)	Geology	Rock Classification
1st Layer	0.25 ~ 0.35	Topsoil, weathered soil	D
2nd Layer	0.5 ~ 0.8	Highly weathered rock, talus deposits	D
3rd Layer	1.0 ~ 1.5	Highly weathered rock	C <sub>L</sub>
4th Layer	2.0 ~ 2.4	Weathered rock	C <sub>M</sub>
5th Layer	5.0 ~ 6.2	Fresh rock	B ~ A
Low velocity Zone	2.5 ~ 4.0	Shear zone	C <sub>L</sub> ~ C <sub>H</sub>





FIG. I.4-8

GEOLOGICAL SECTION FOR  
SEISMIC LINE SL:CD-1



- (I) Intermediate Charnockite
- (II) Felsic Gneiss, Biotite Gneiss,  
Intermediate Charnockite alternation

FIG. I.4-9  
FIG. I.4-10

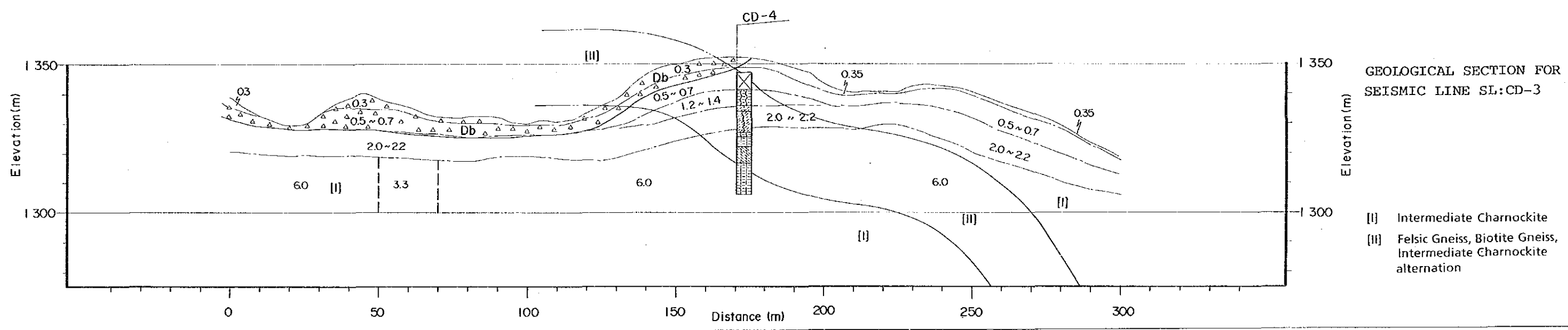
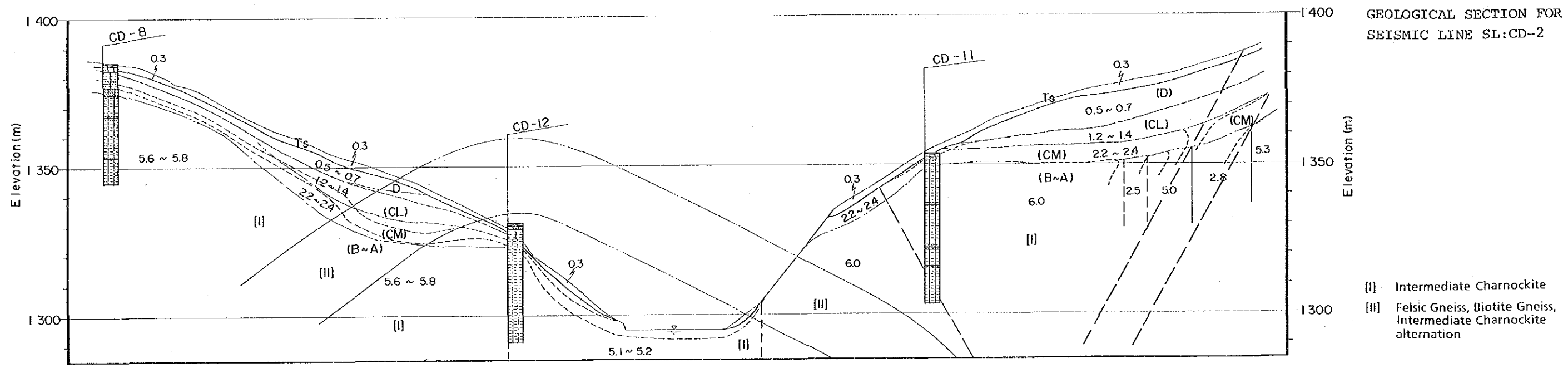
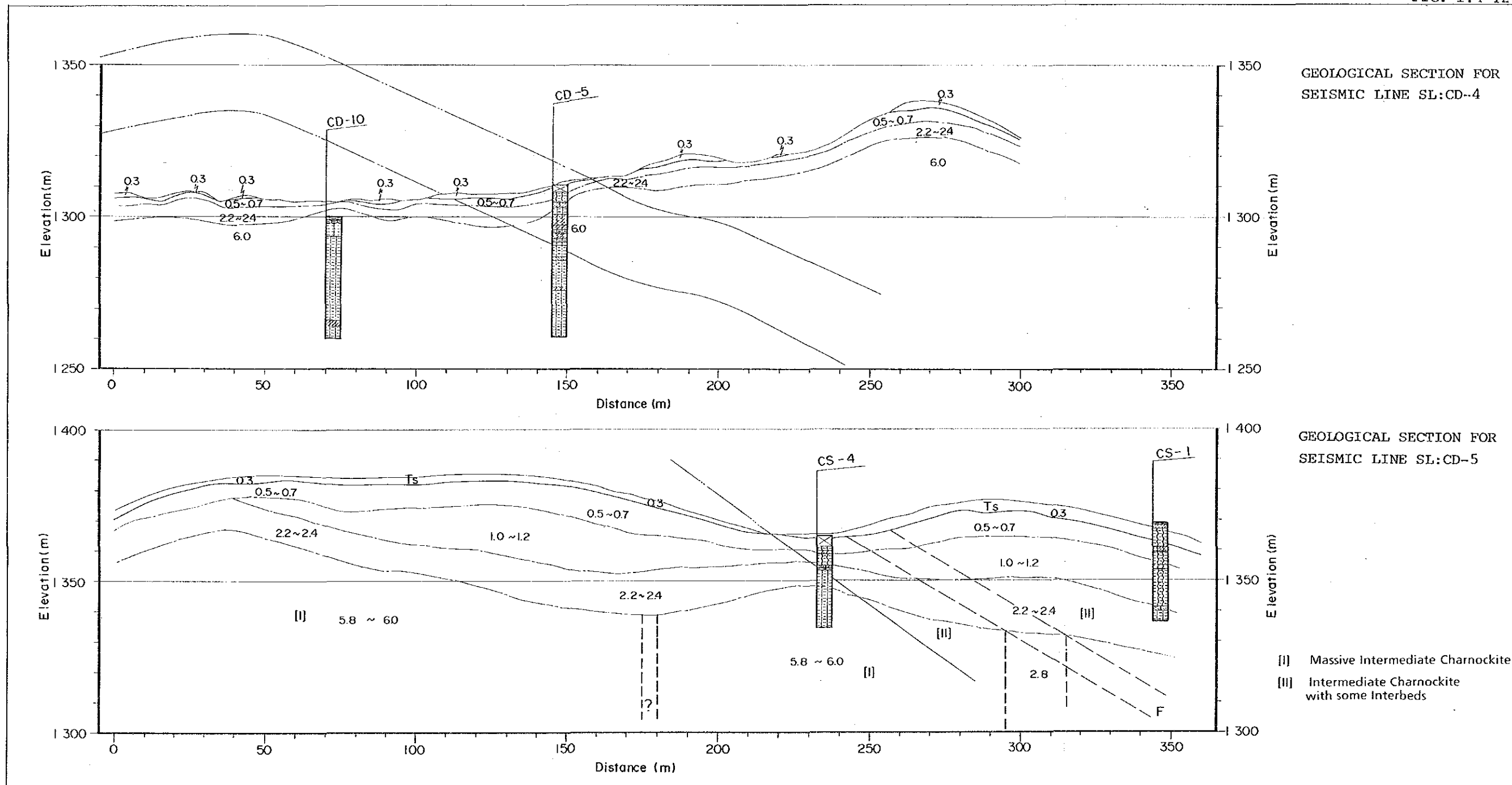


FIG. I.4-11  
FIG. I.4-12





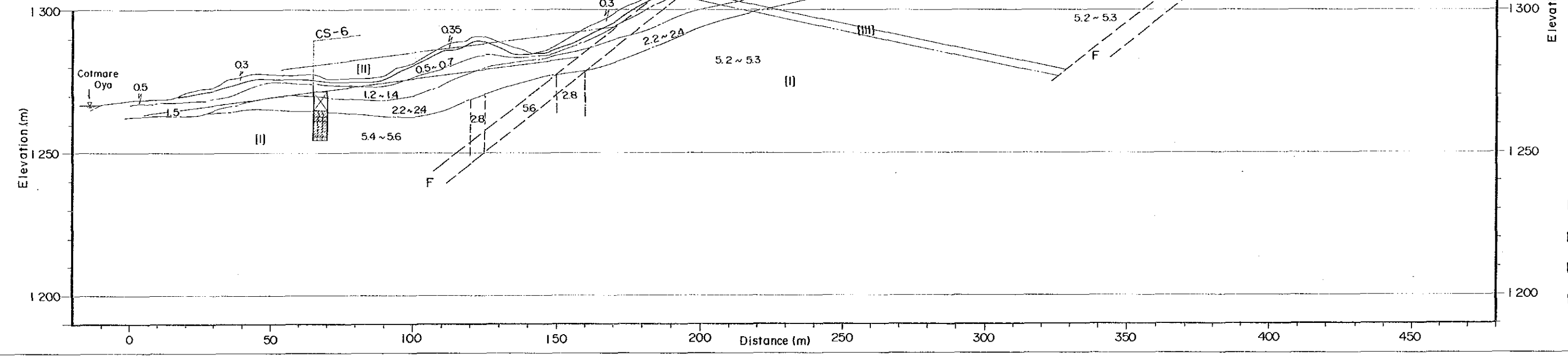
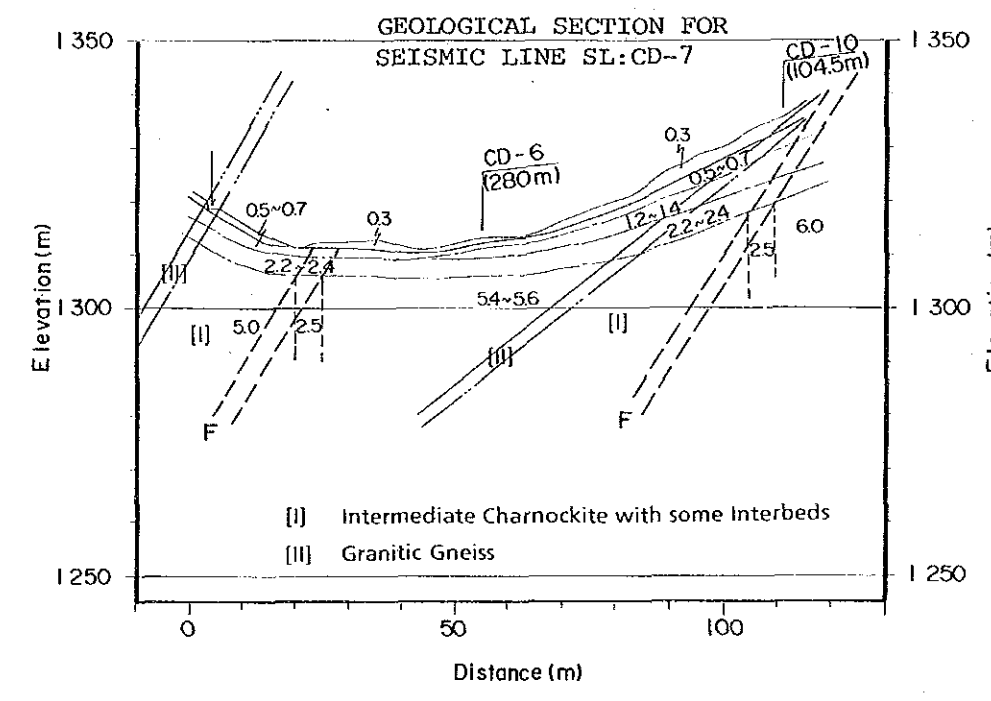


FIG. I.4-13  
FIG. I.4-14

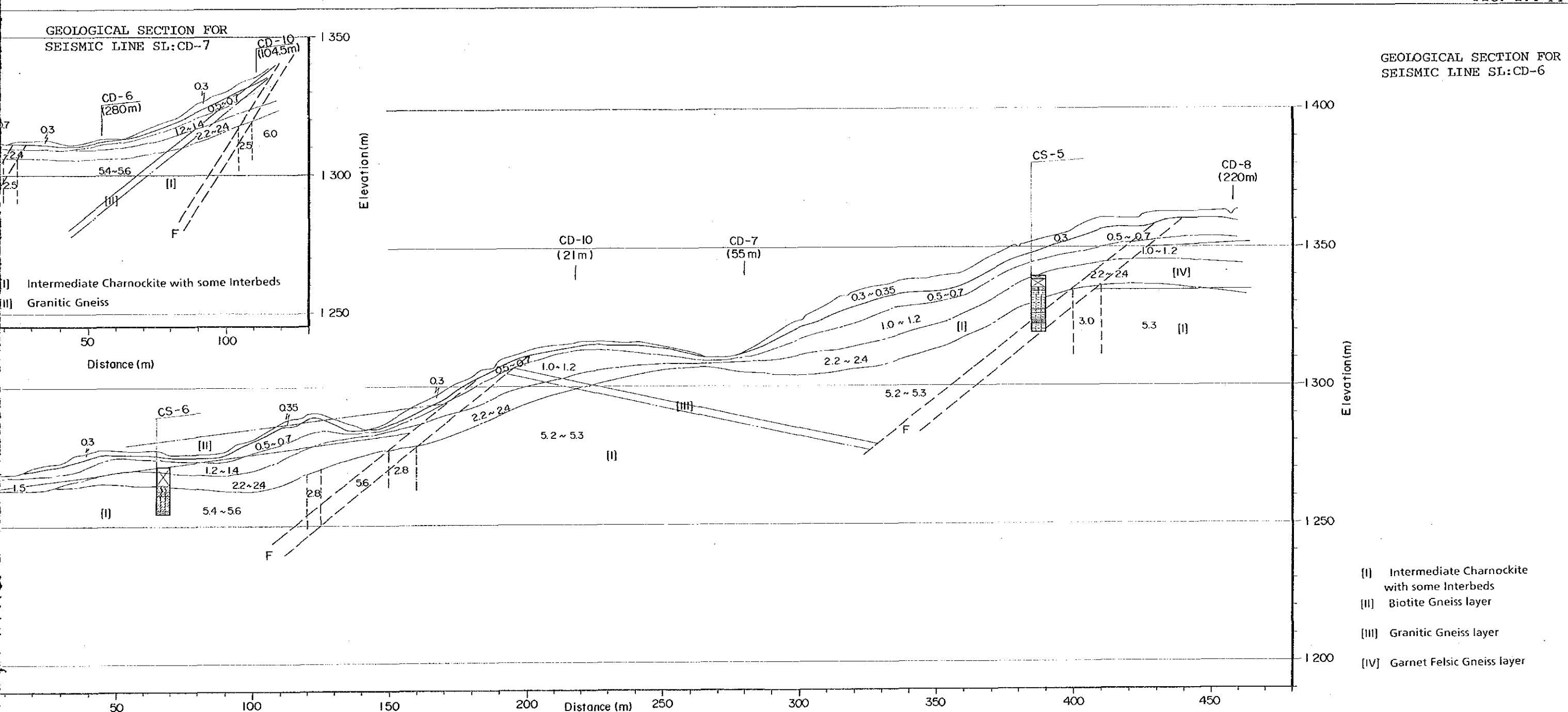
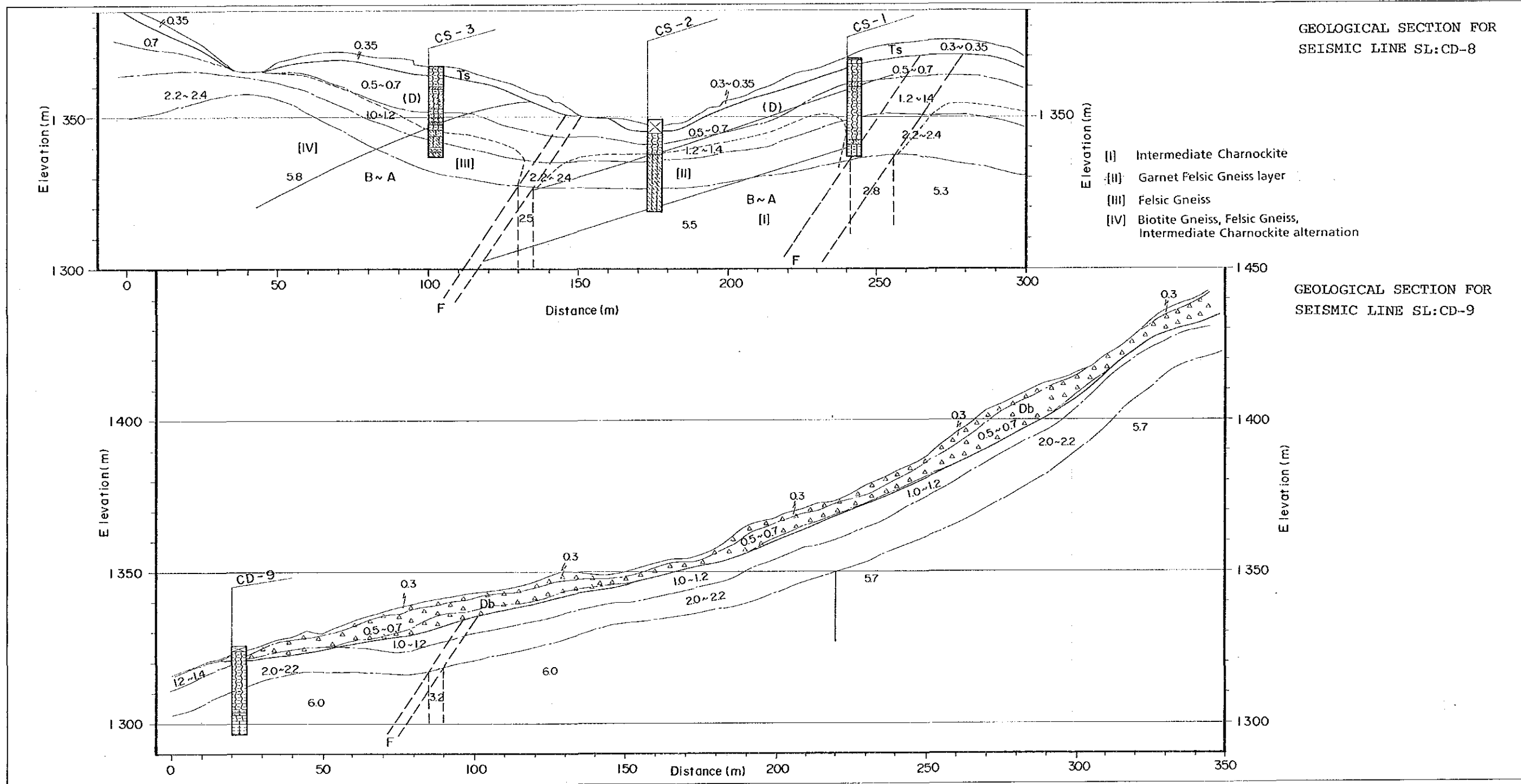


FIG. I.4-15  
FIG. I.4-16



GEOLOGICAL SECTION  
SEISMIC LINE SL:CD

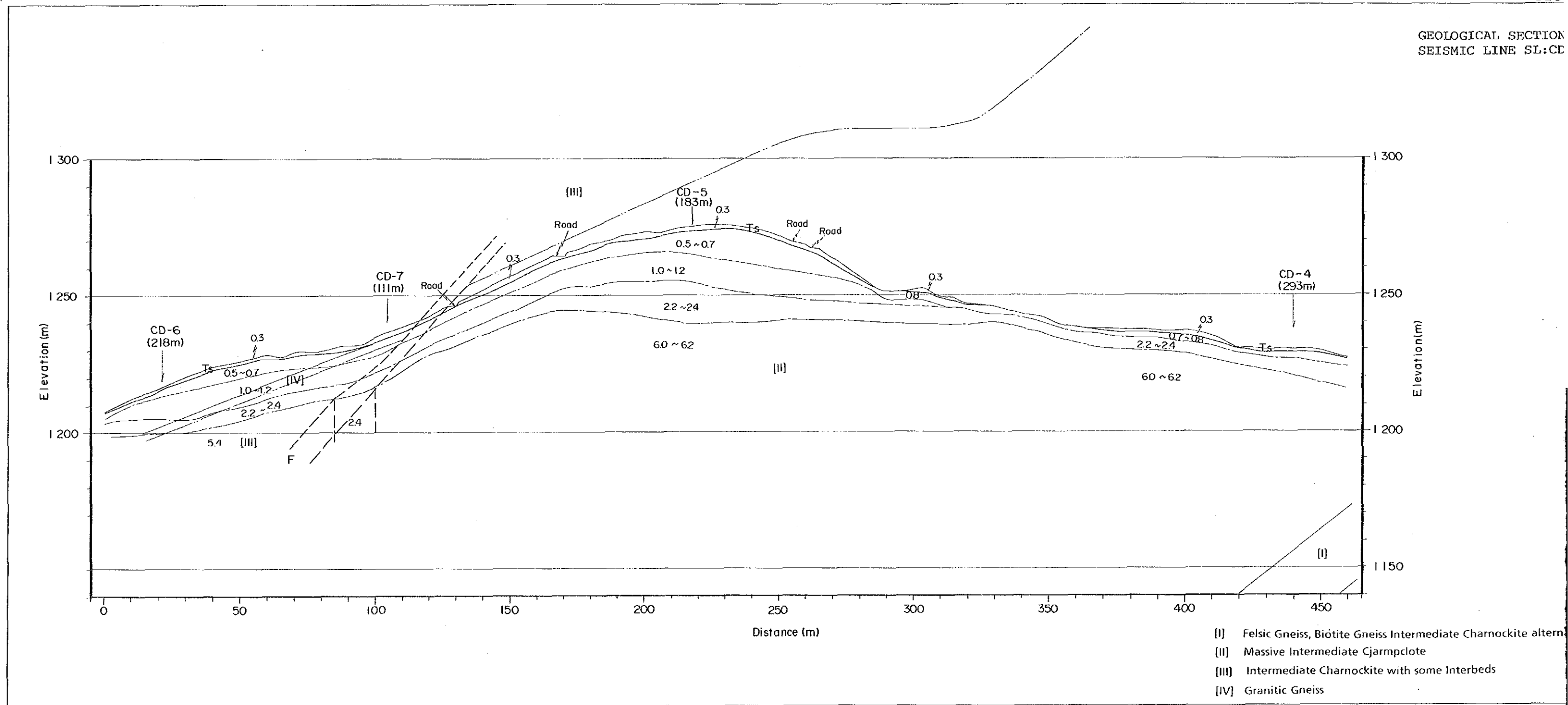
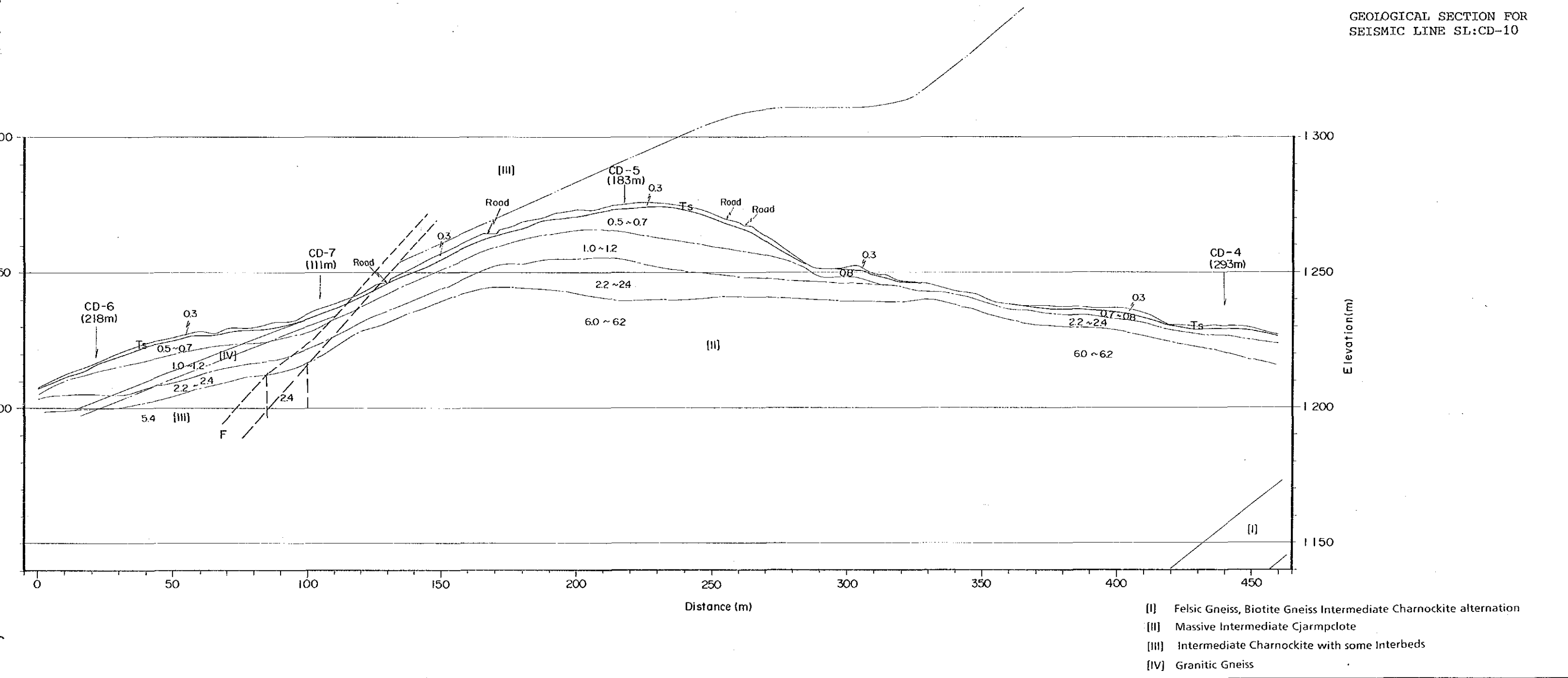
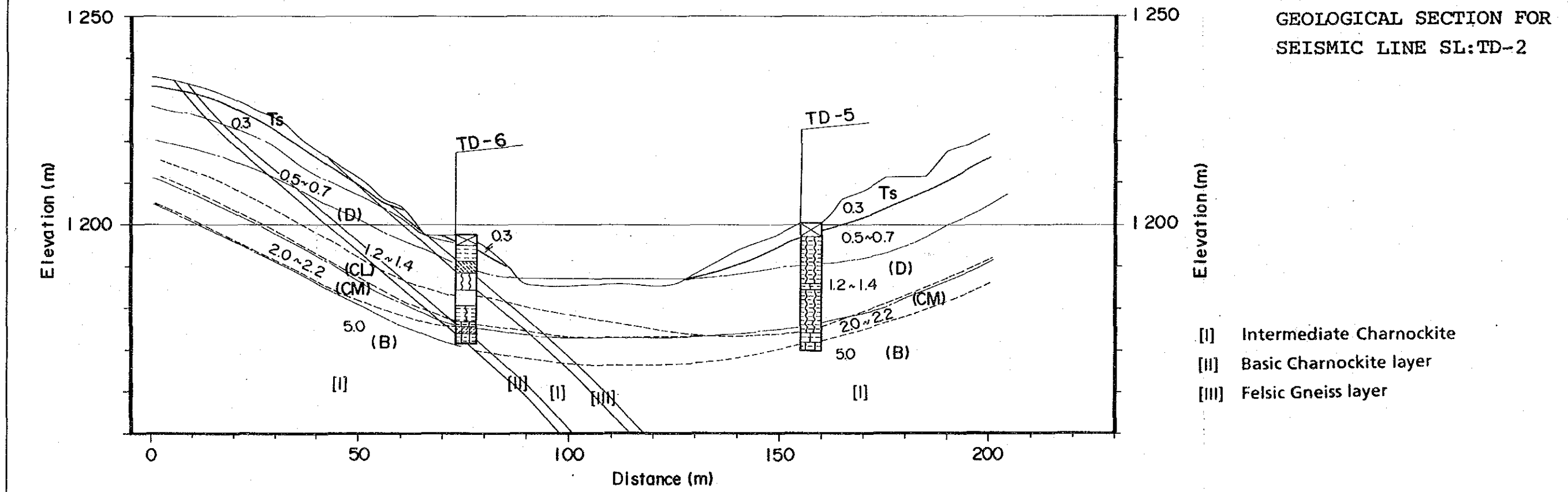
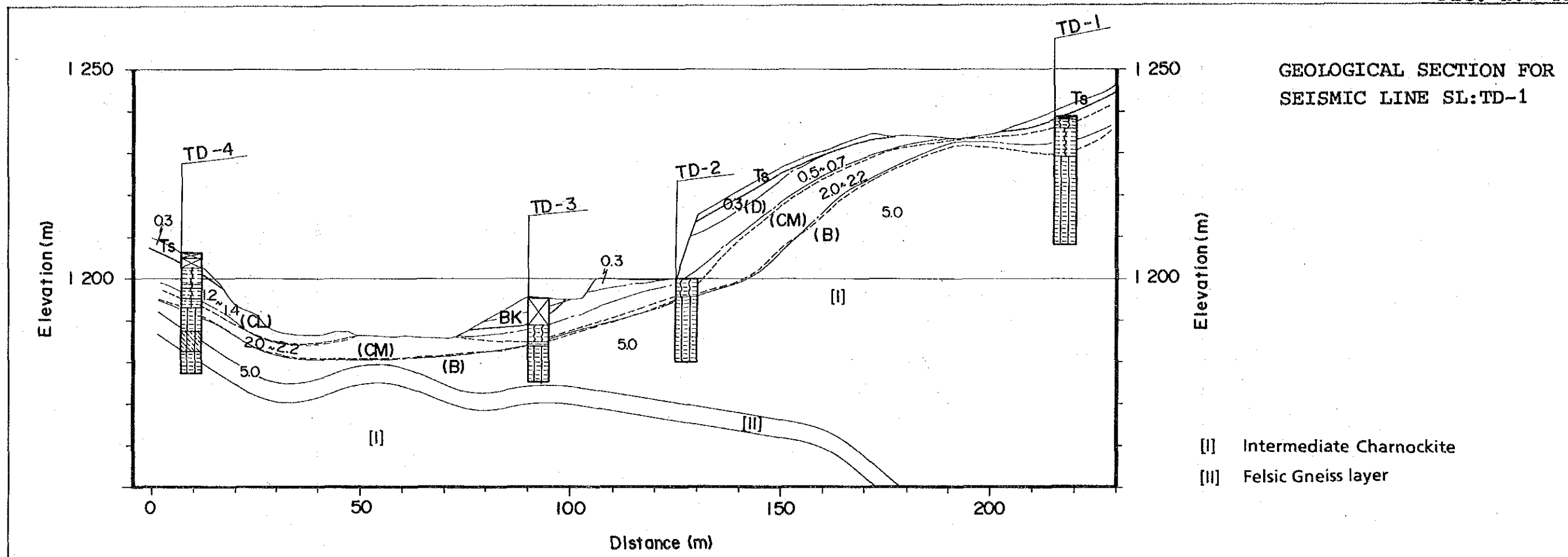
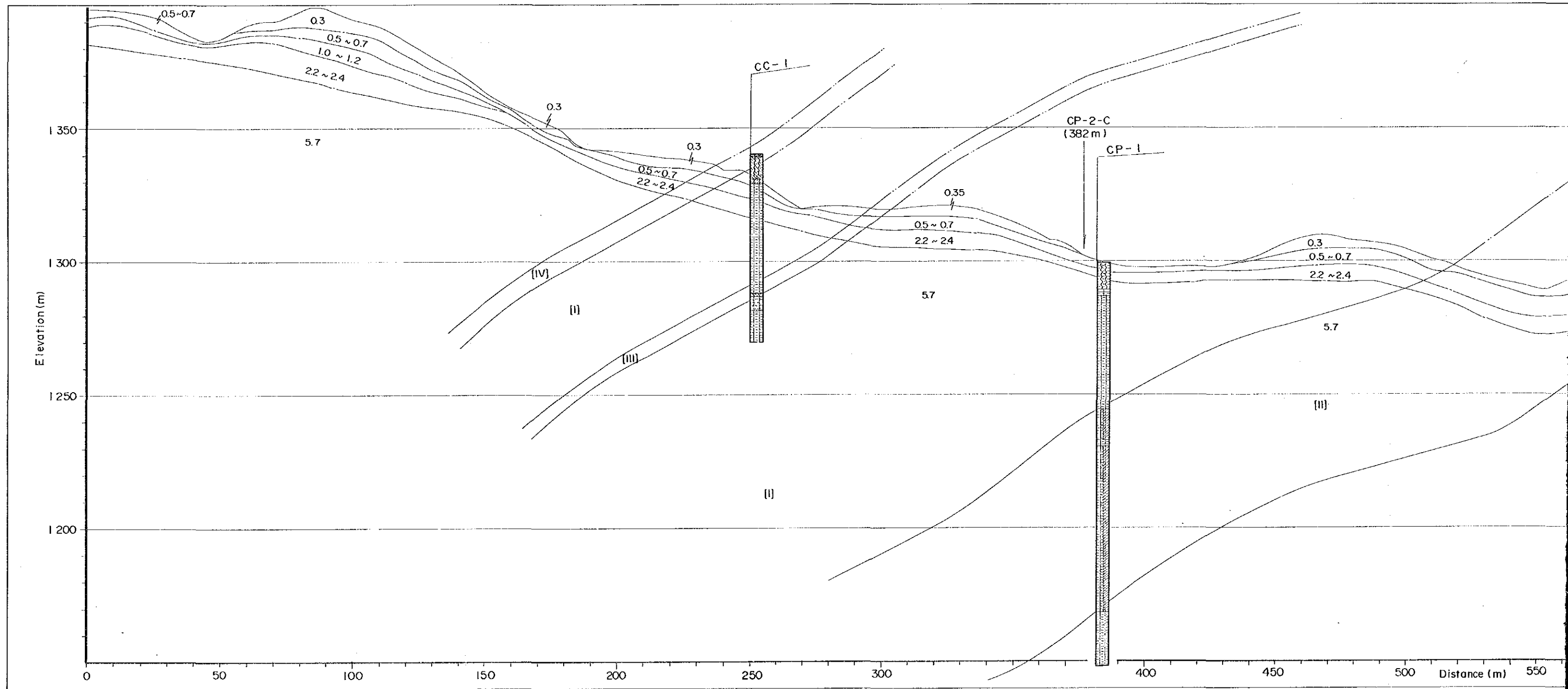


FIG. I.4-17

GEOLOGICAL SECTION FOR  
SEISMIC LINE SL:CD-10







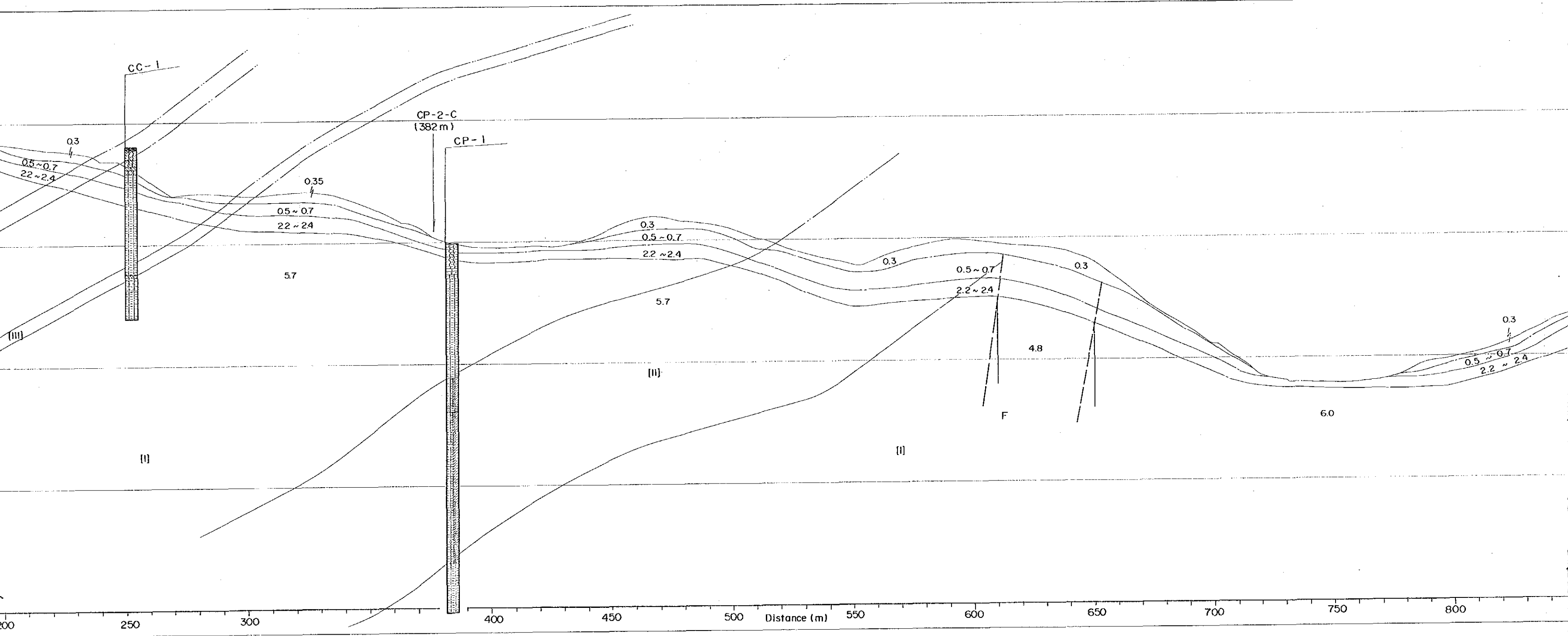
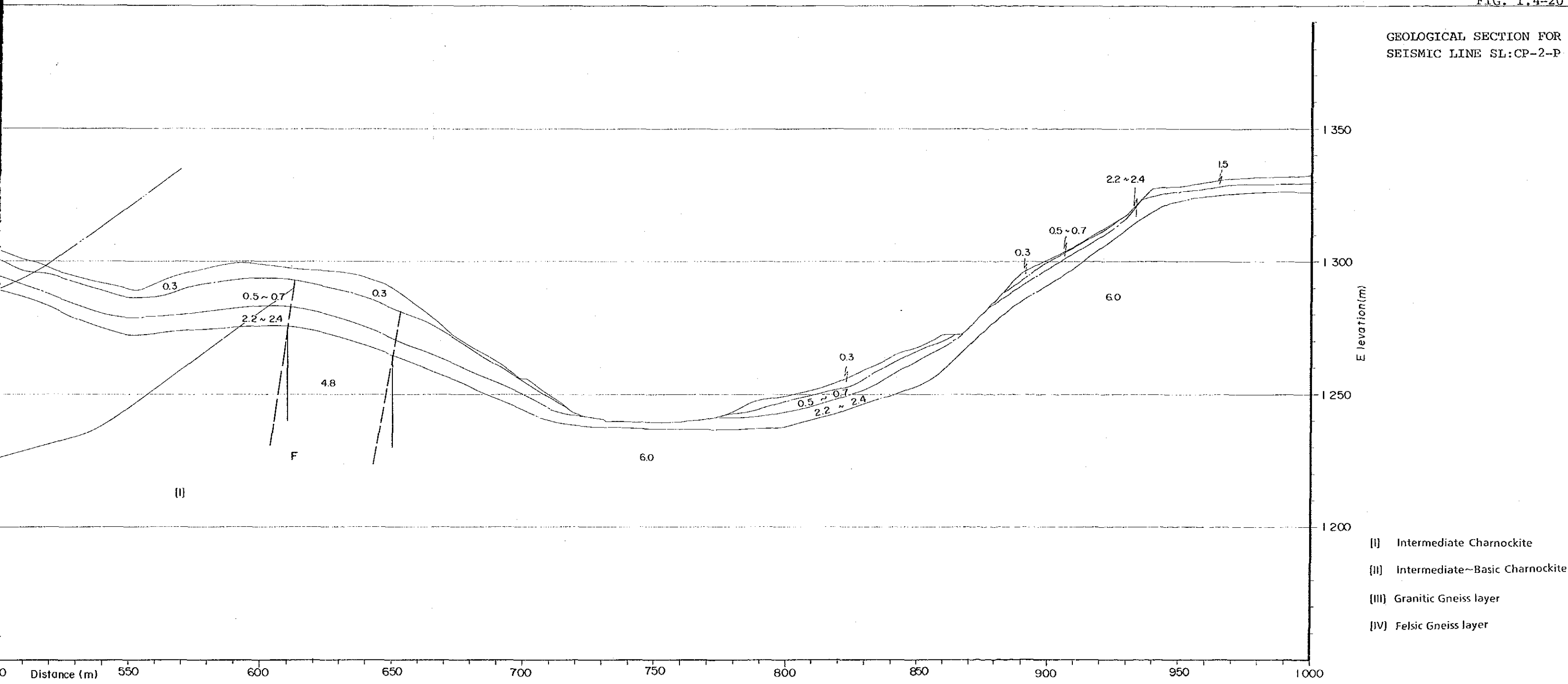




FIG. I.4-20



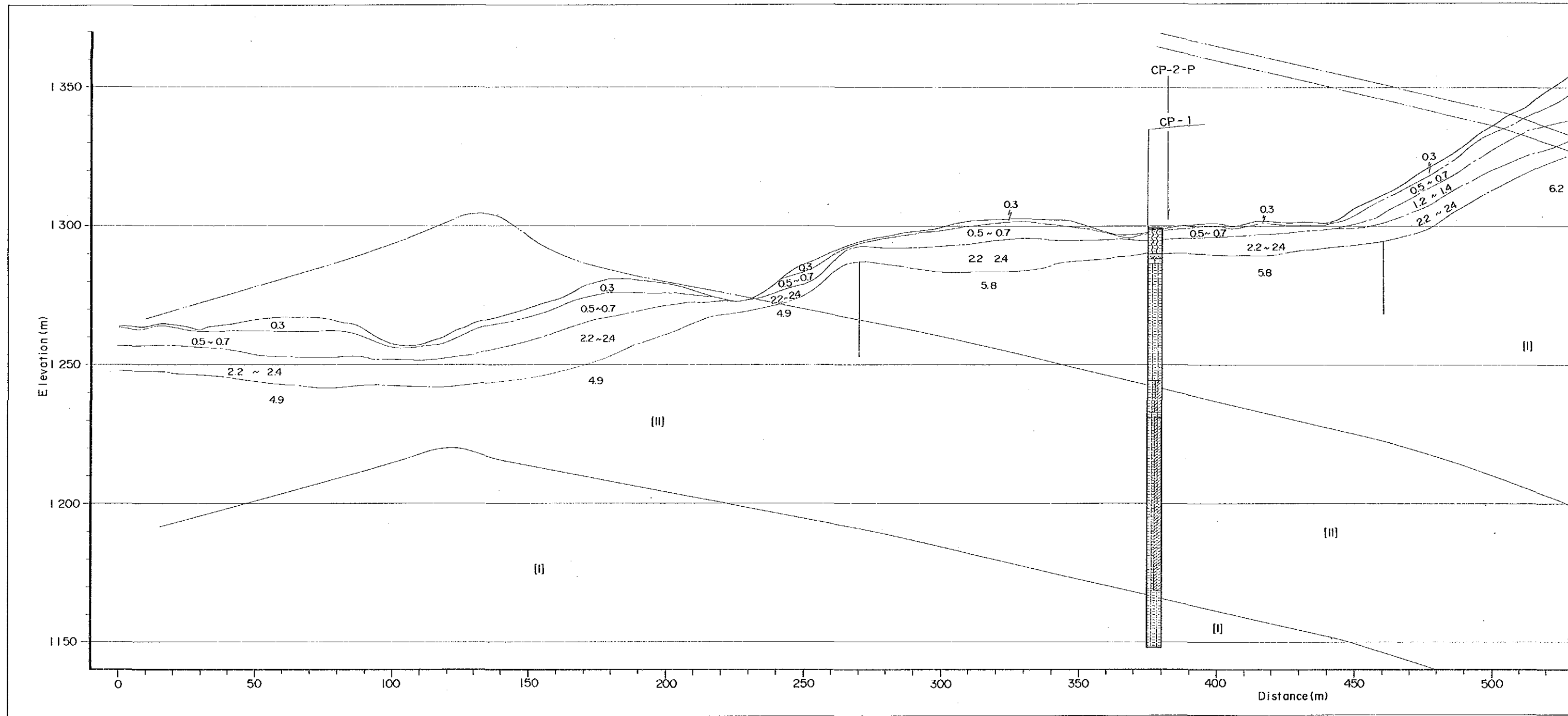
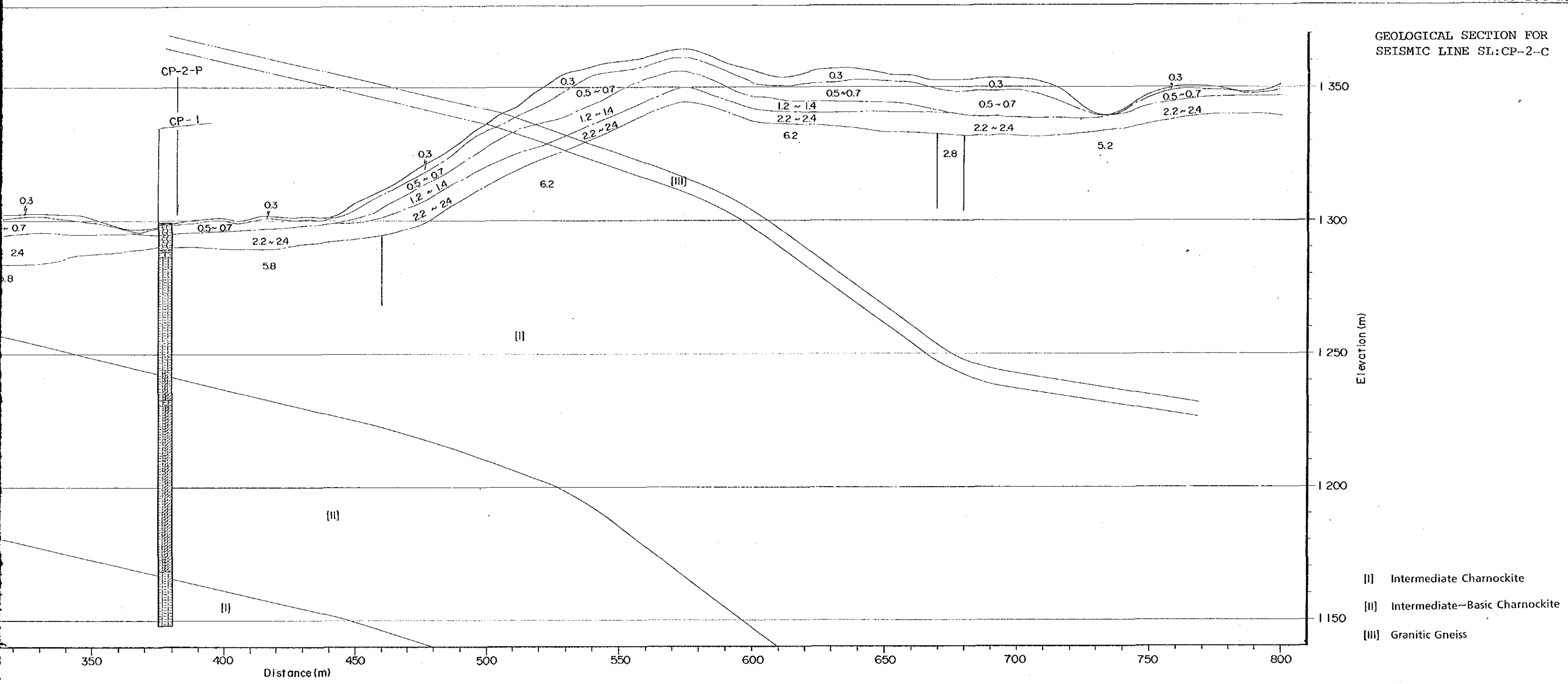
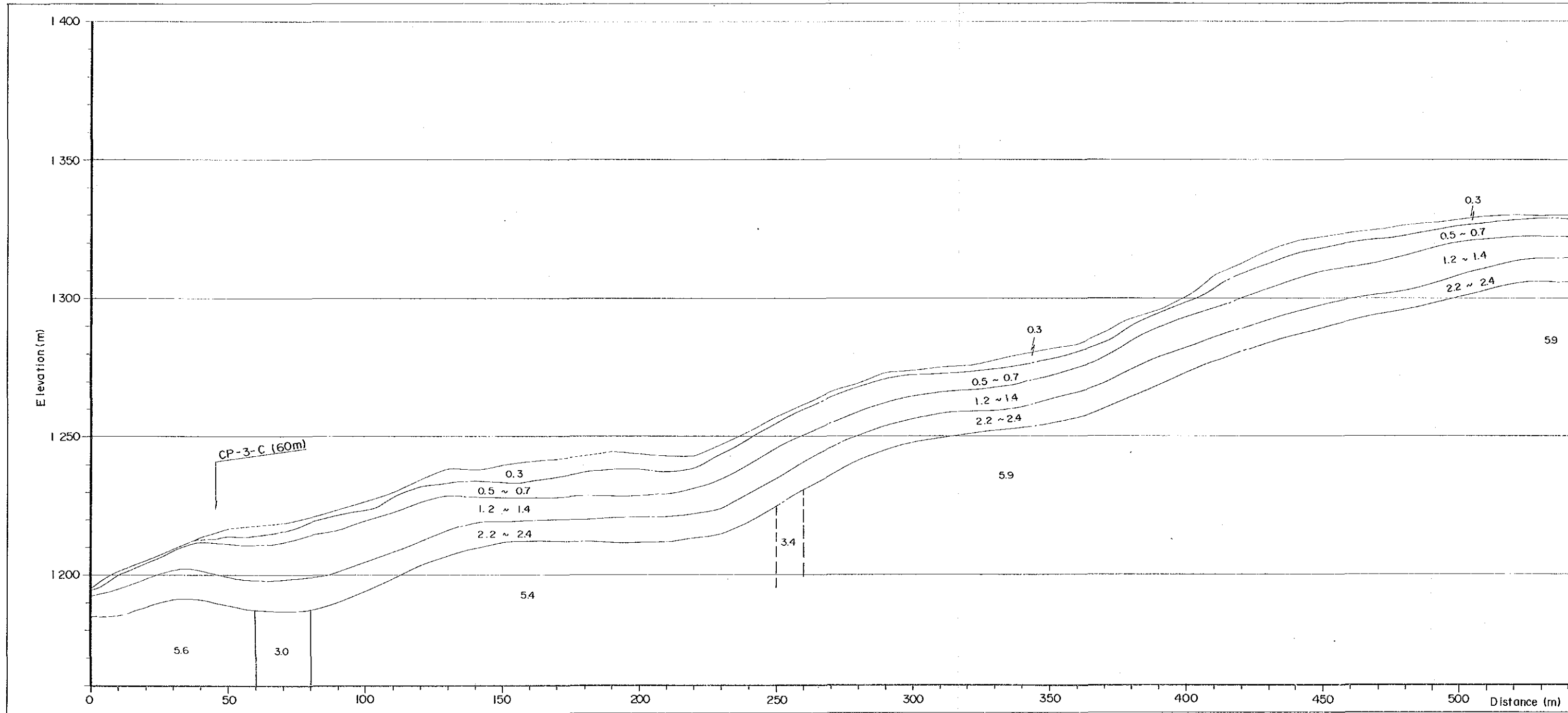


FIG. I.4-21





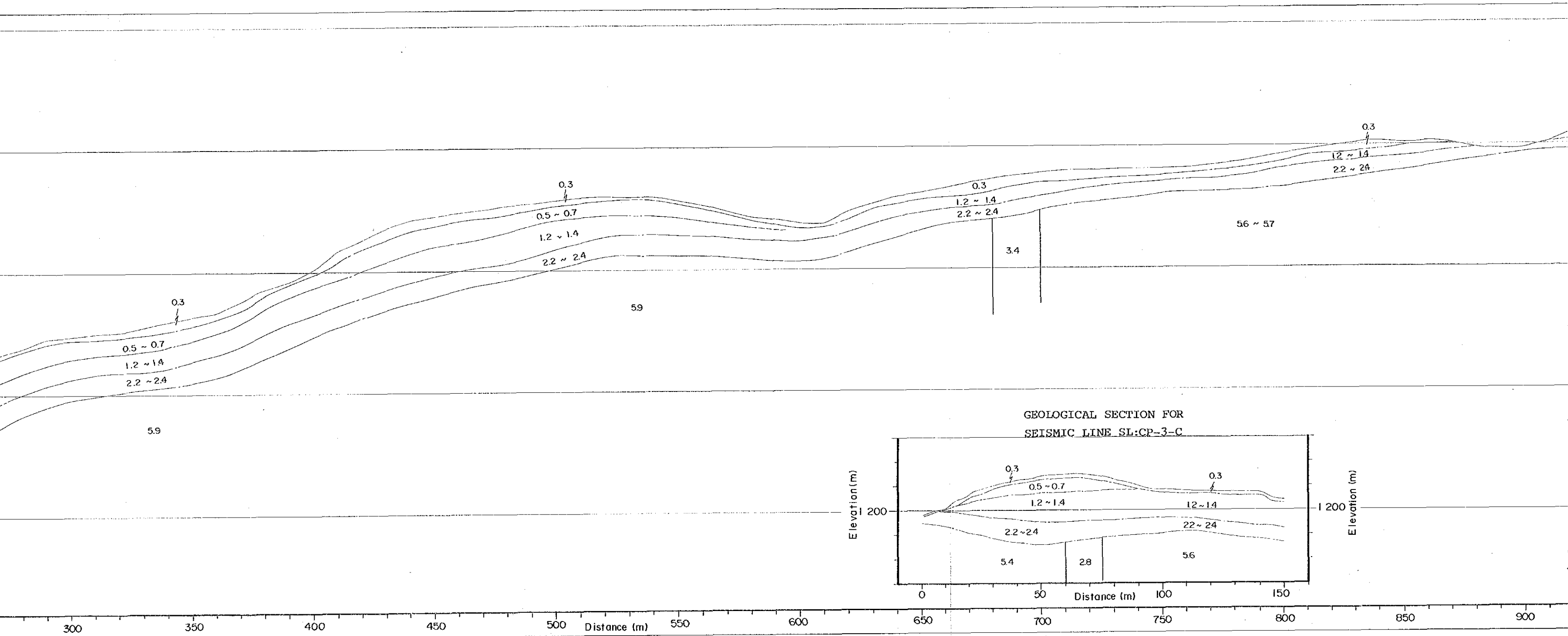
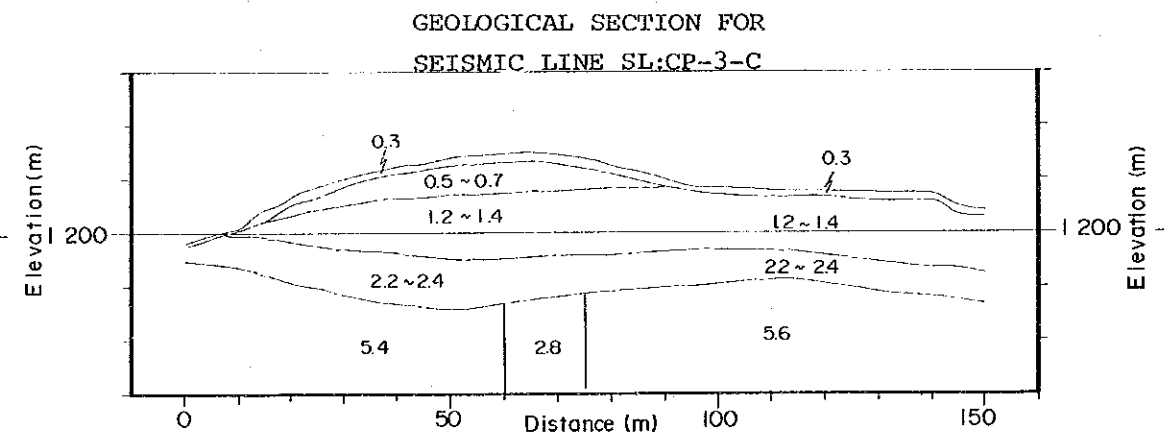
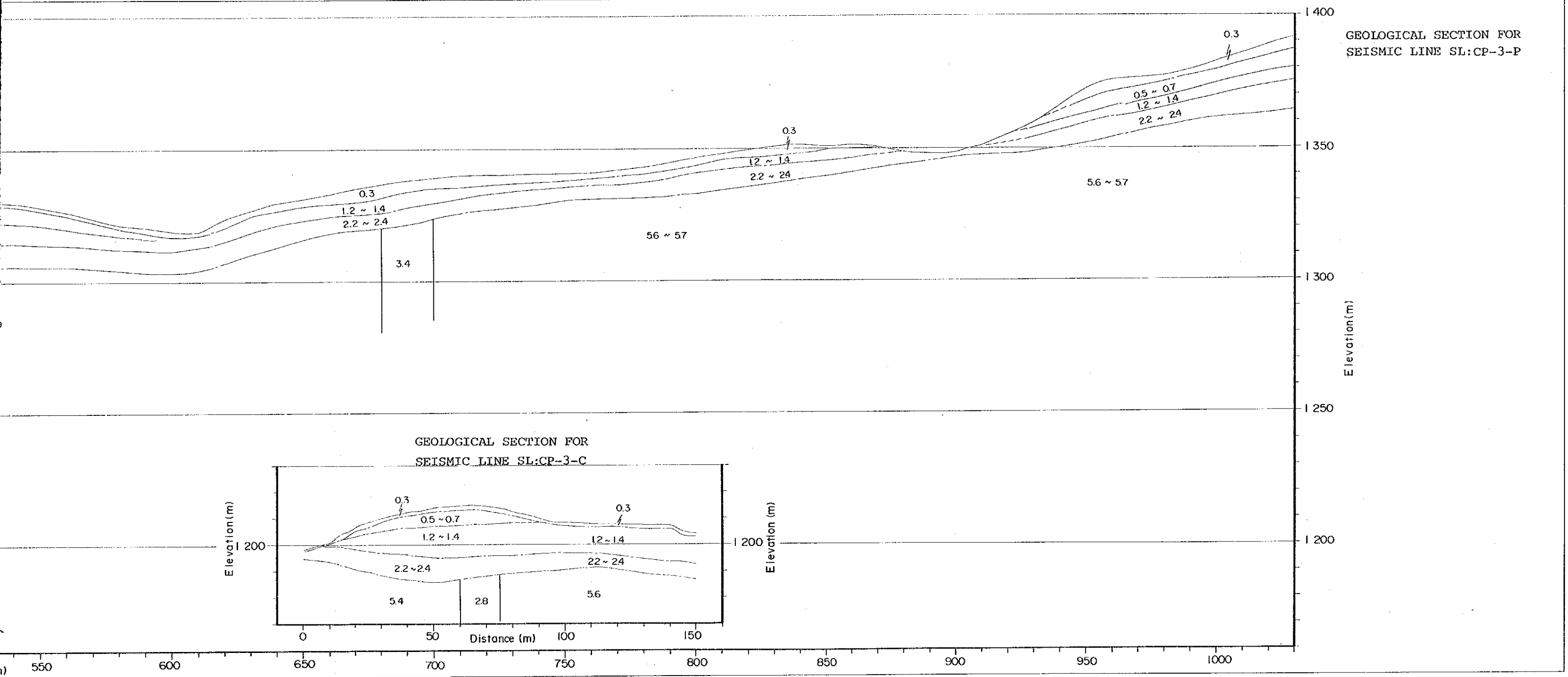
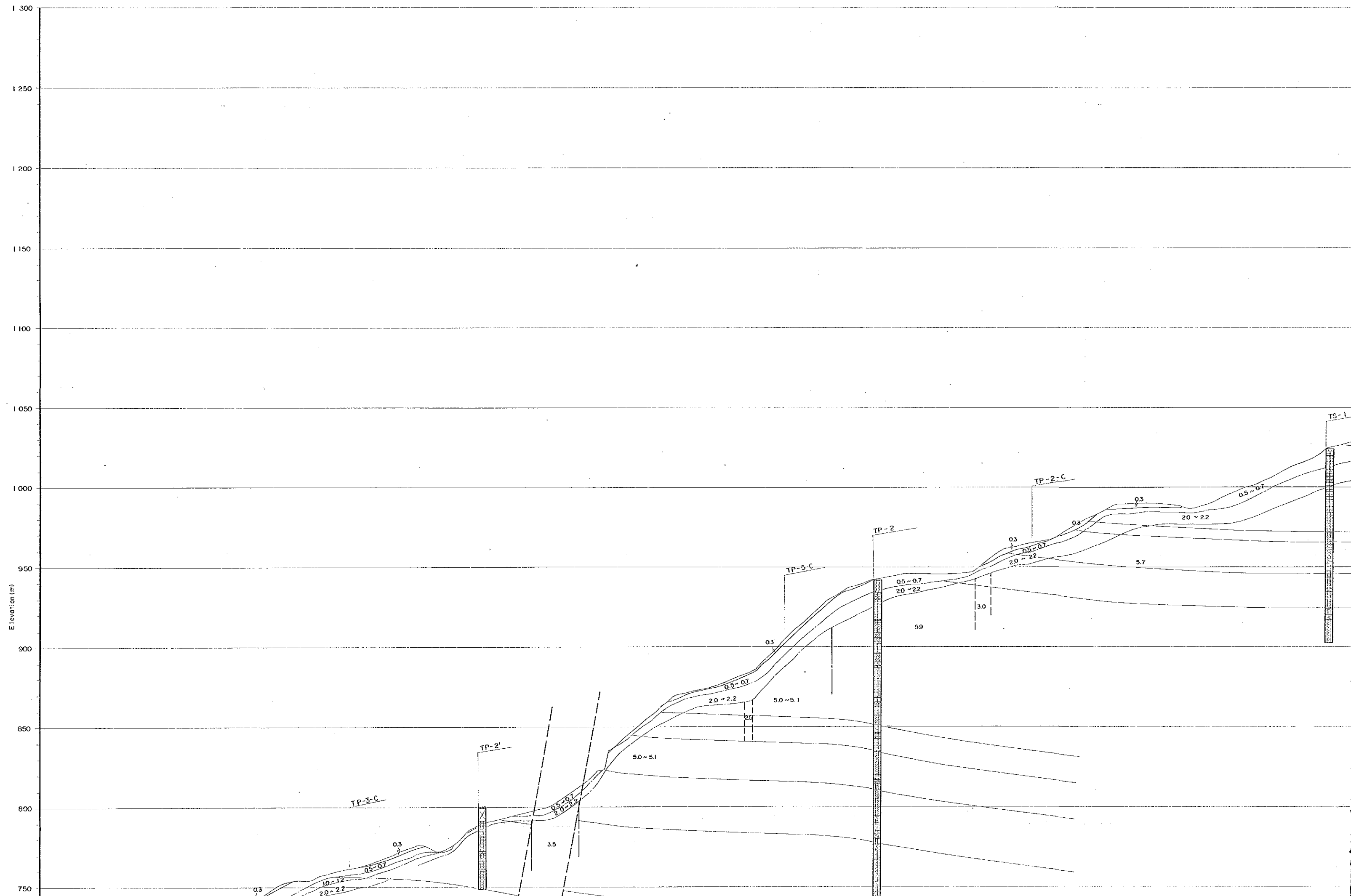
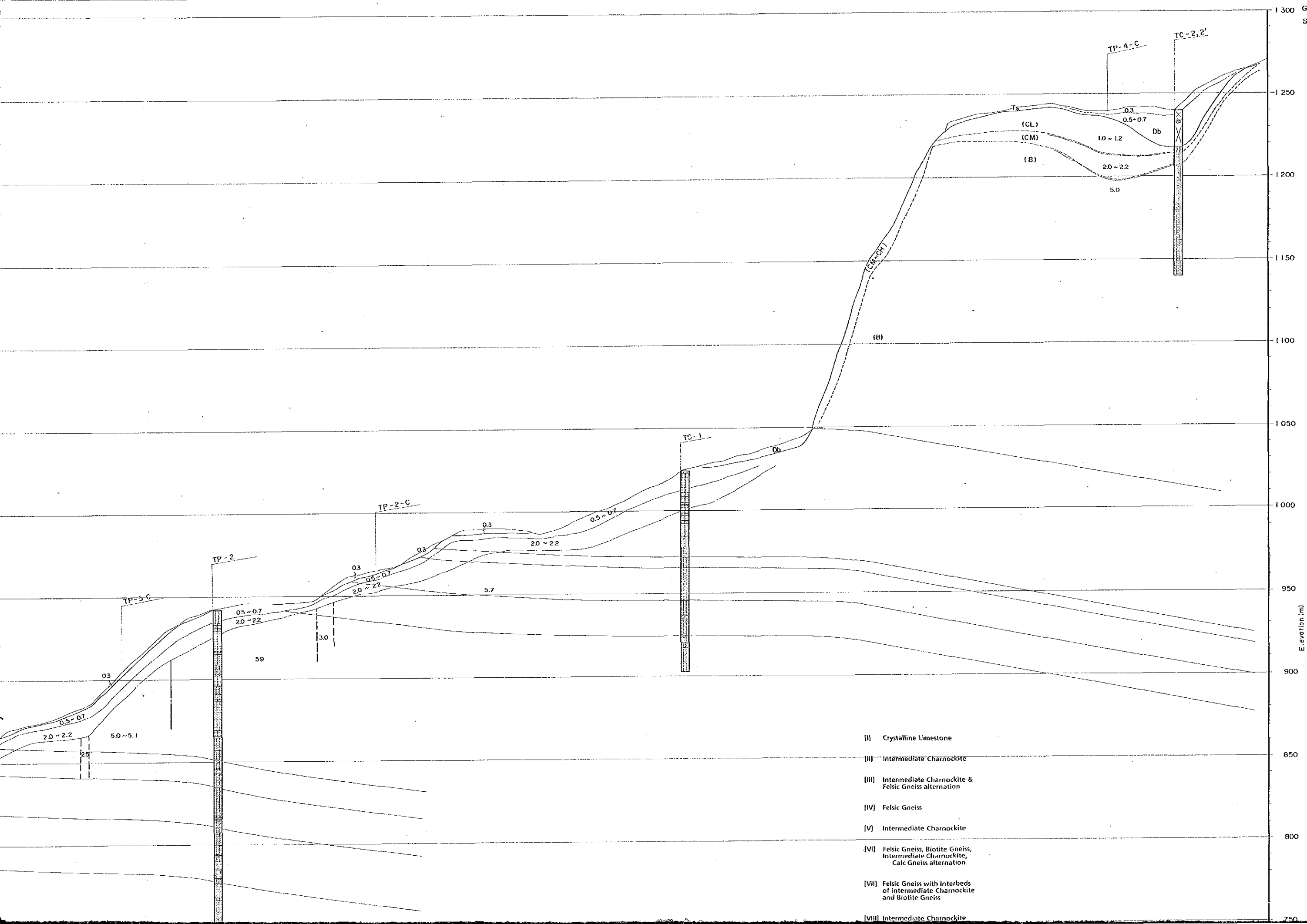


FIG. I.4-22  
FIG. I.4-23



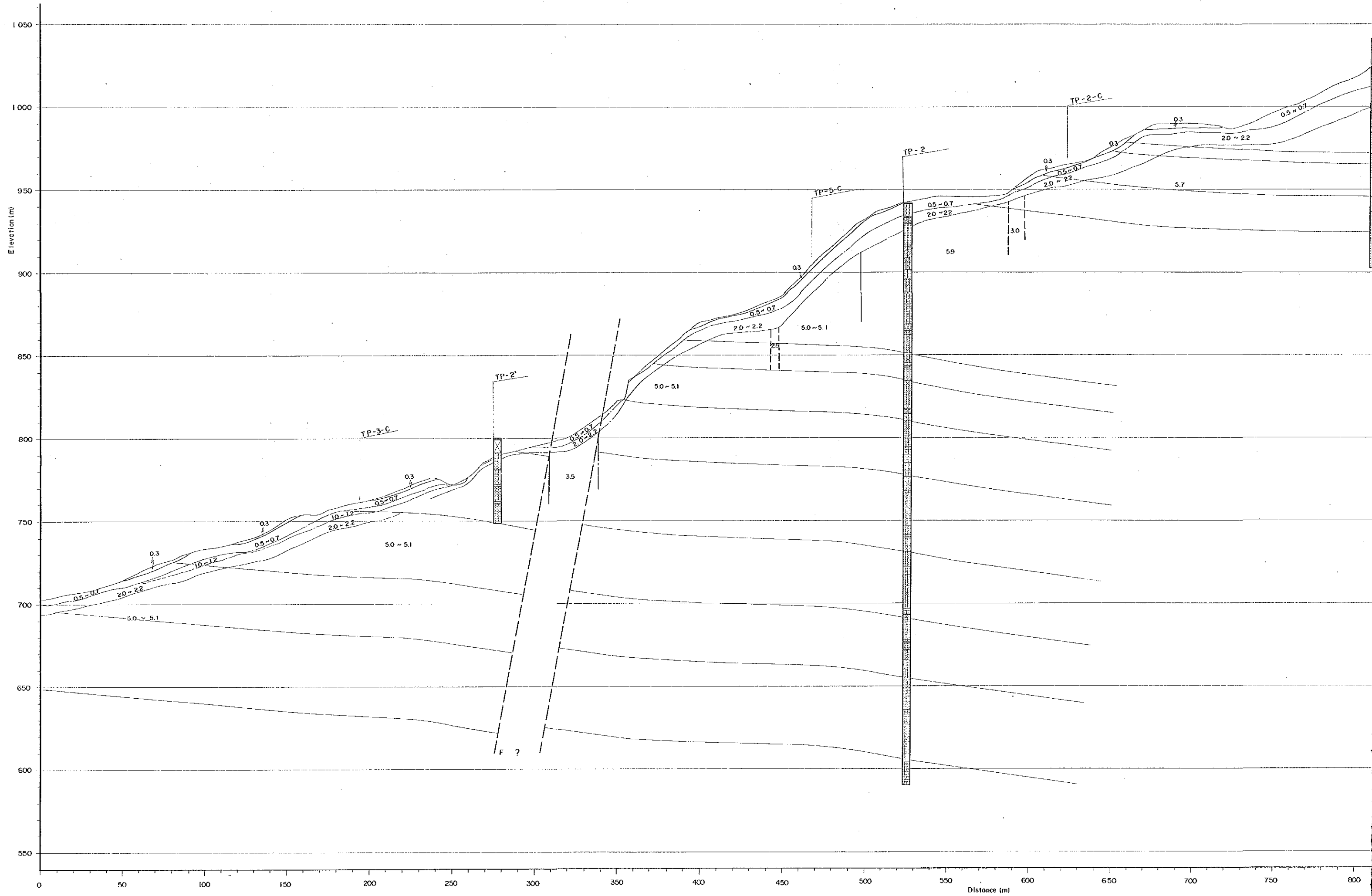


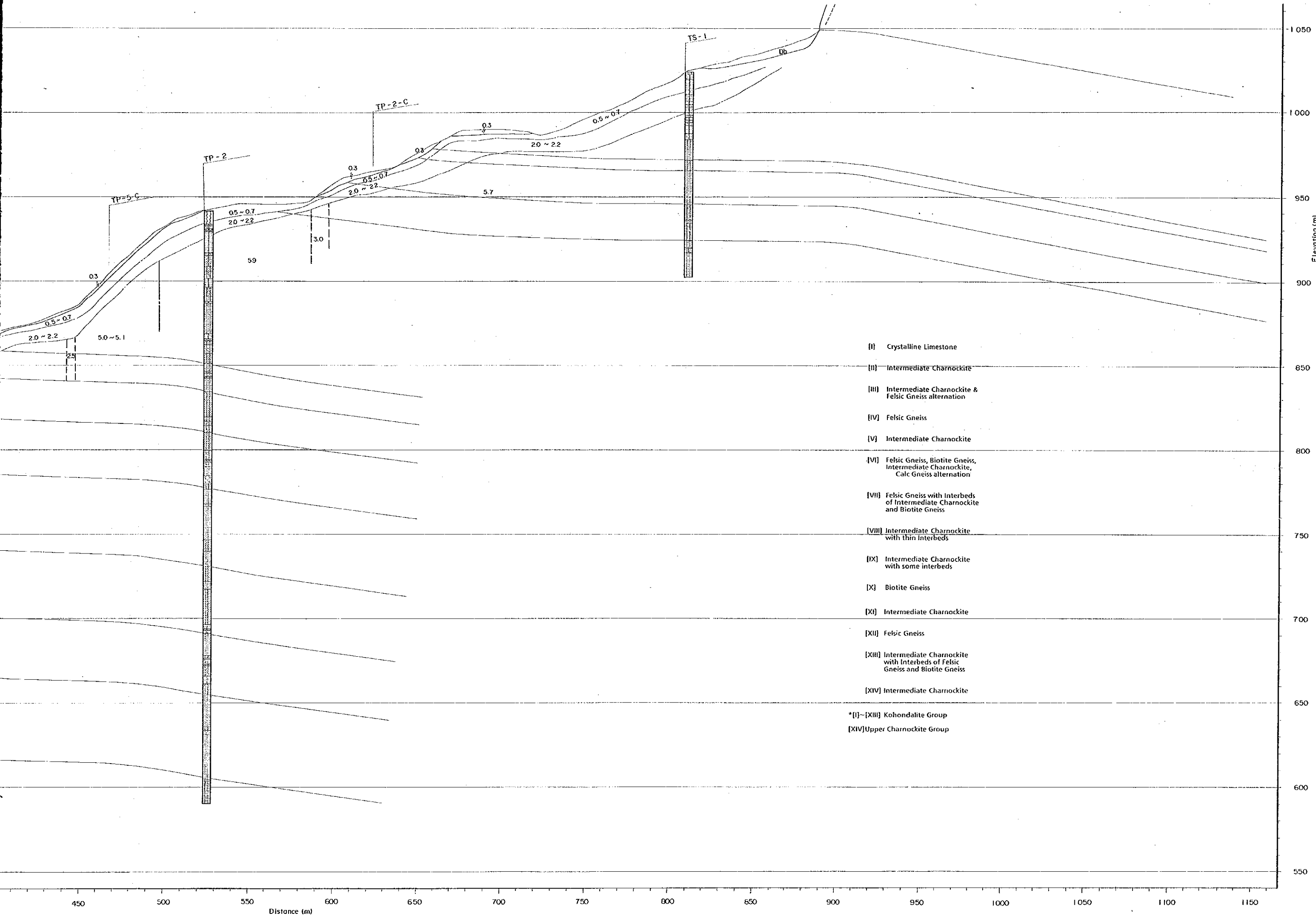
1 300 GEOLOGICAL SECTION FOR  
SEISMIC LINE SL:TP-2-P

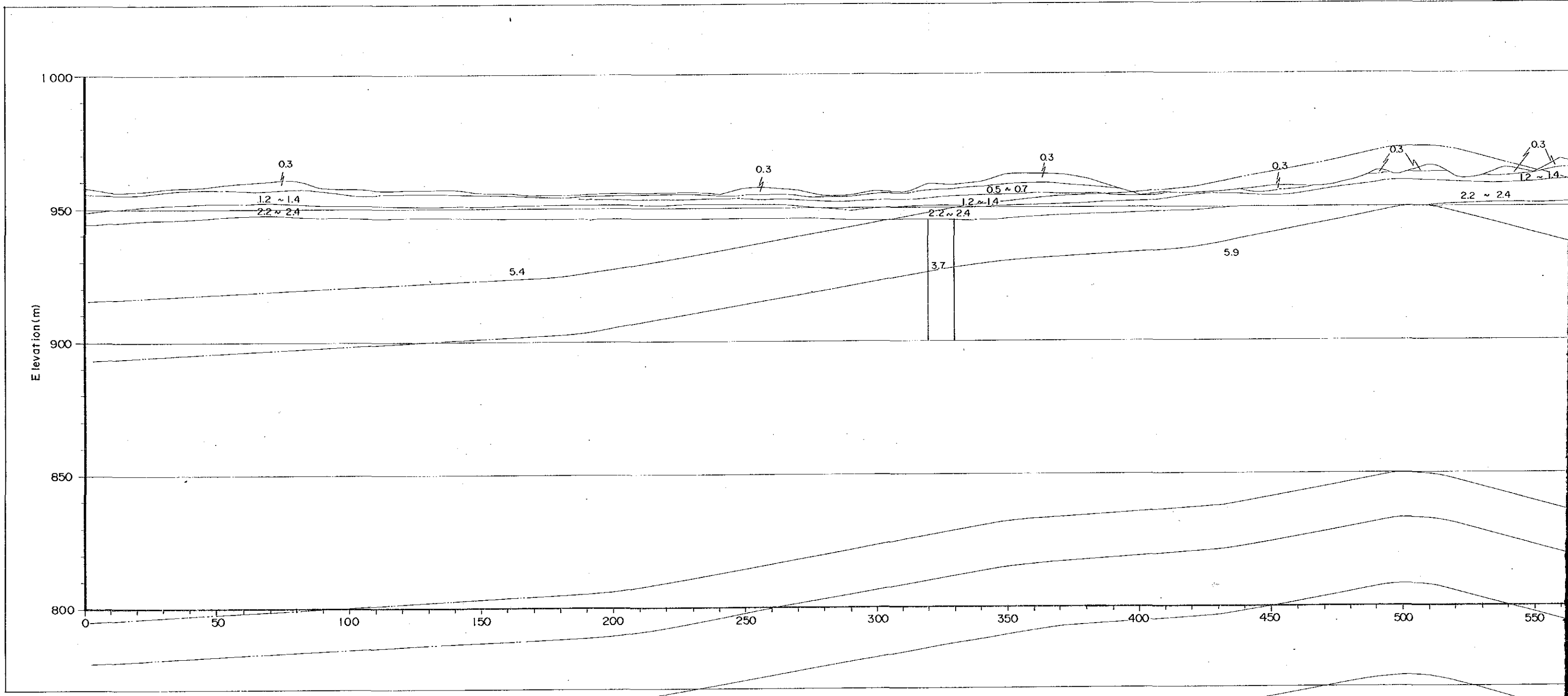


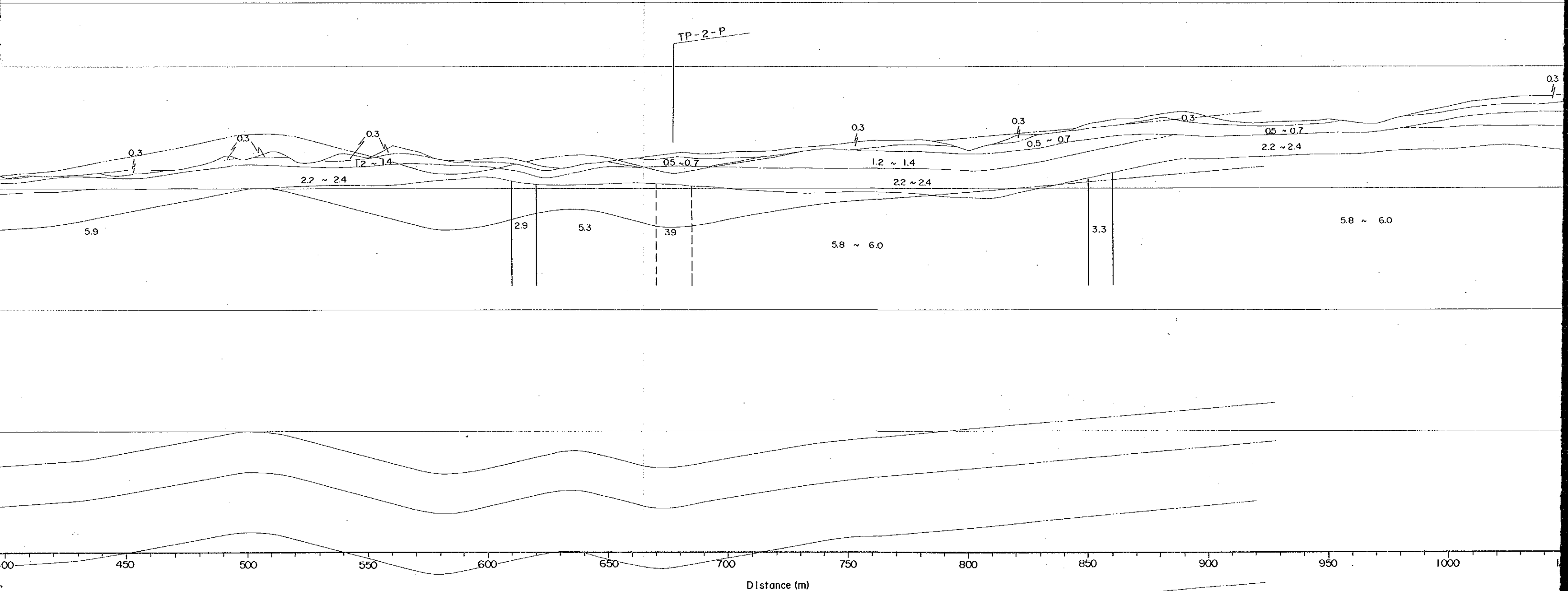
- (I) Crystalline Limestone
- (II) Intermediate Charnockite
- (III) Intermediate Charnockite & Felsic Gneiss alternation
- (IV) Felsic Gneiss
- (V) Intermediate Charnockite
- (VI) Felsic Gneiss, Biotite Gneiss, Intermediate Charnockite, Calc Gneiss alternation
- (VII) Felsic Gneiss with interbeds of Intermediate Charnockite and Biotite Gneiss
- (VIII) Intermediate Charnockite











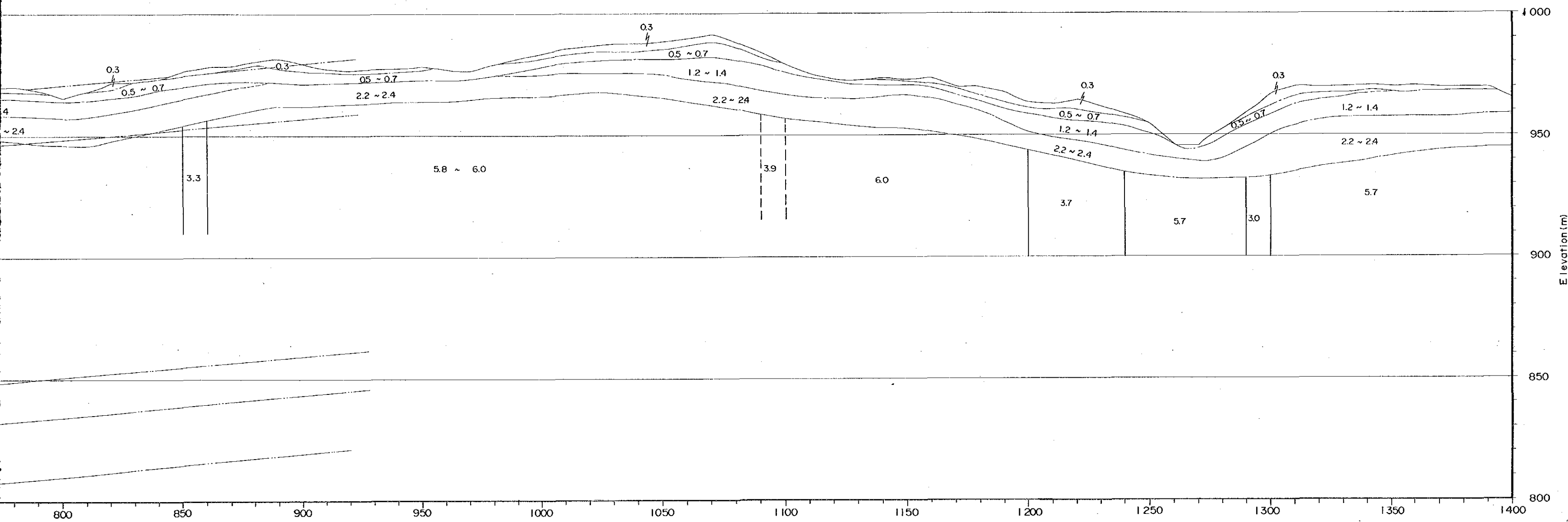


FIG. I.4-25

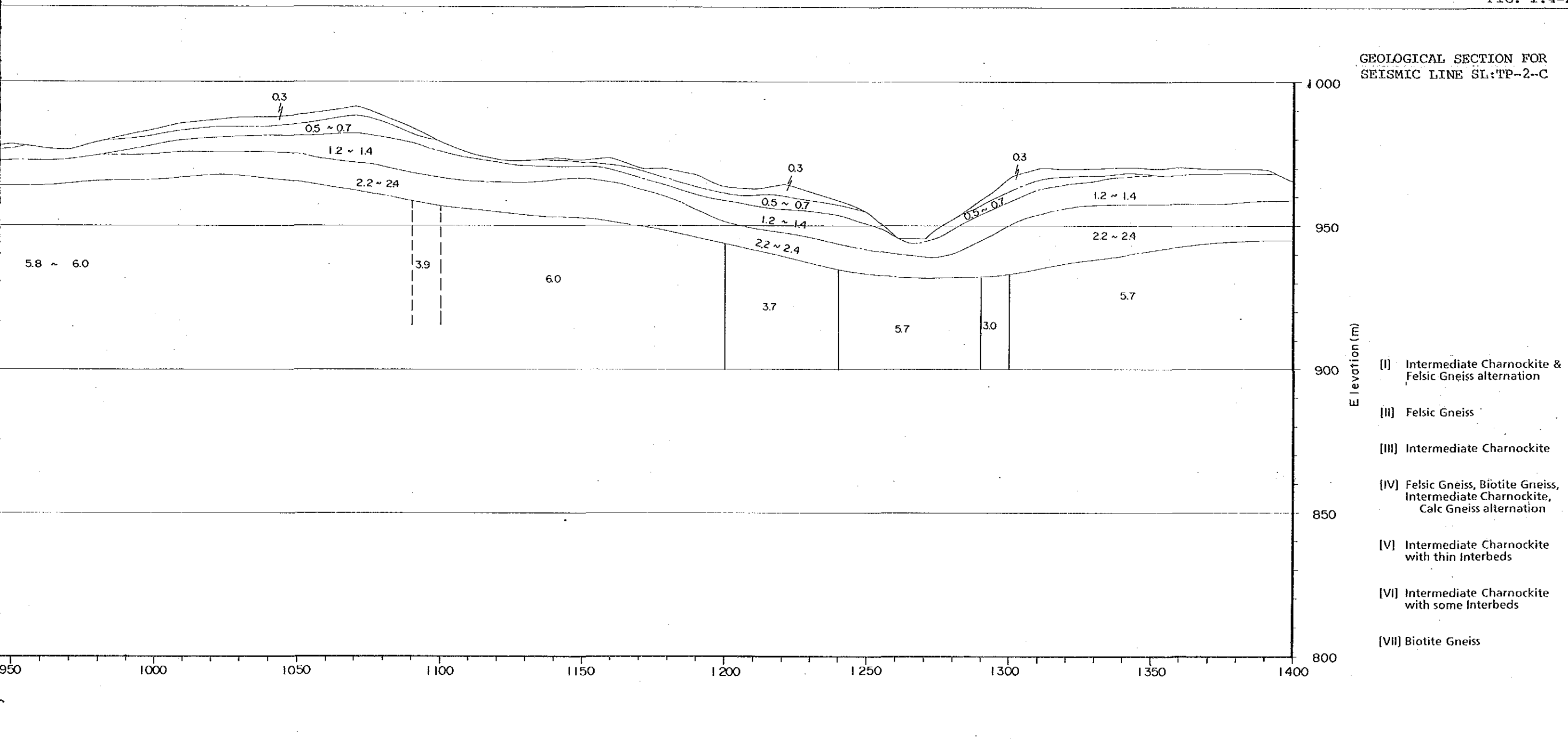


FIG. I.4-26

GEOLOGICAL SECTION FOR  
SEISMIC LINE SL:TP-3-C

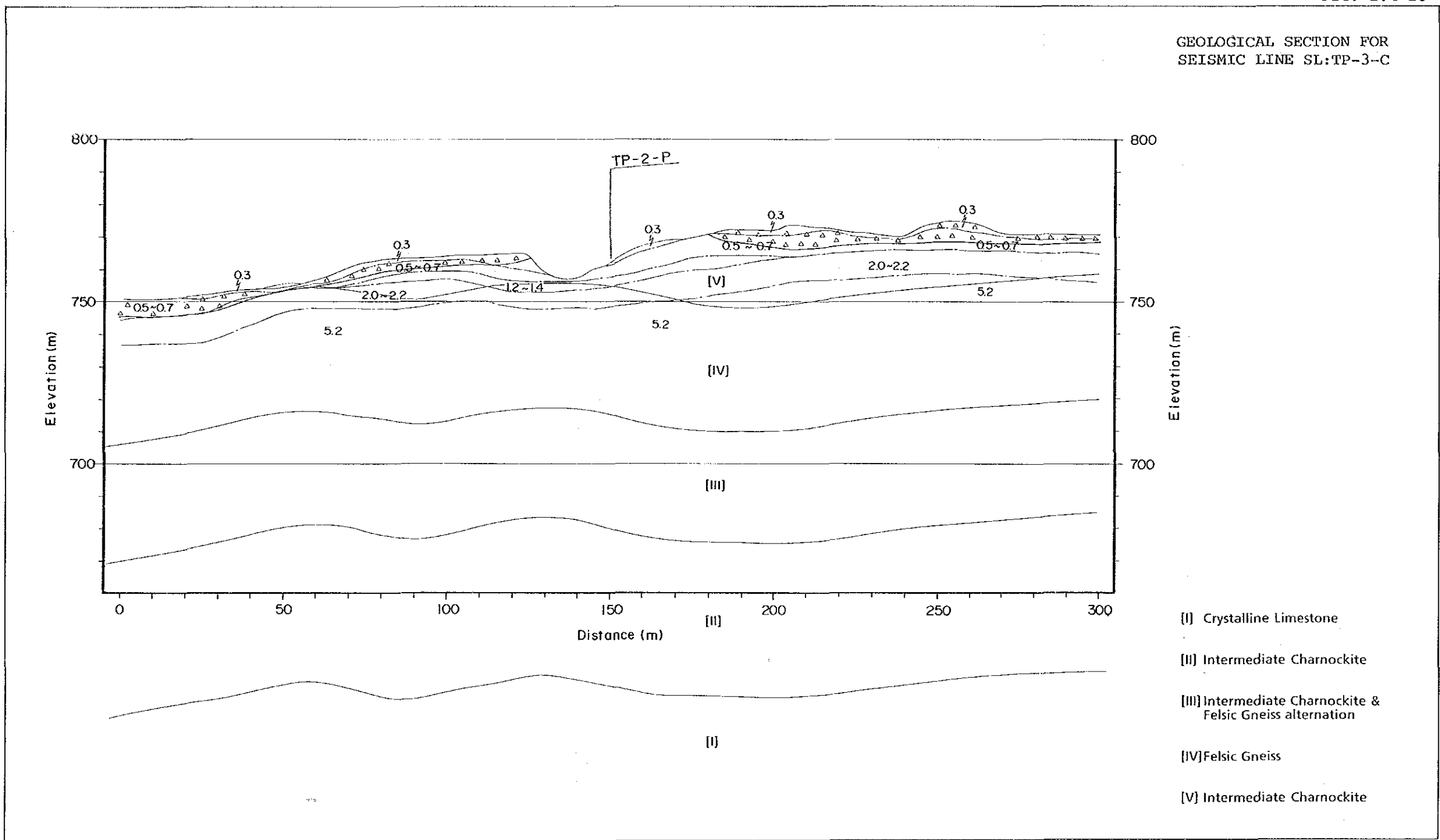


FIG. I.4-27

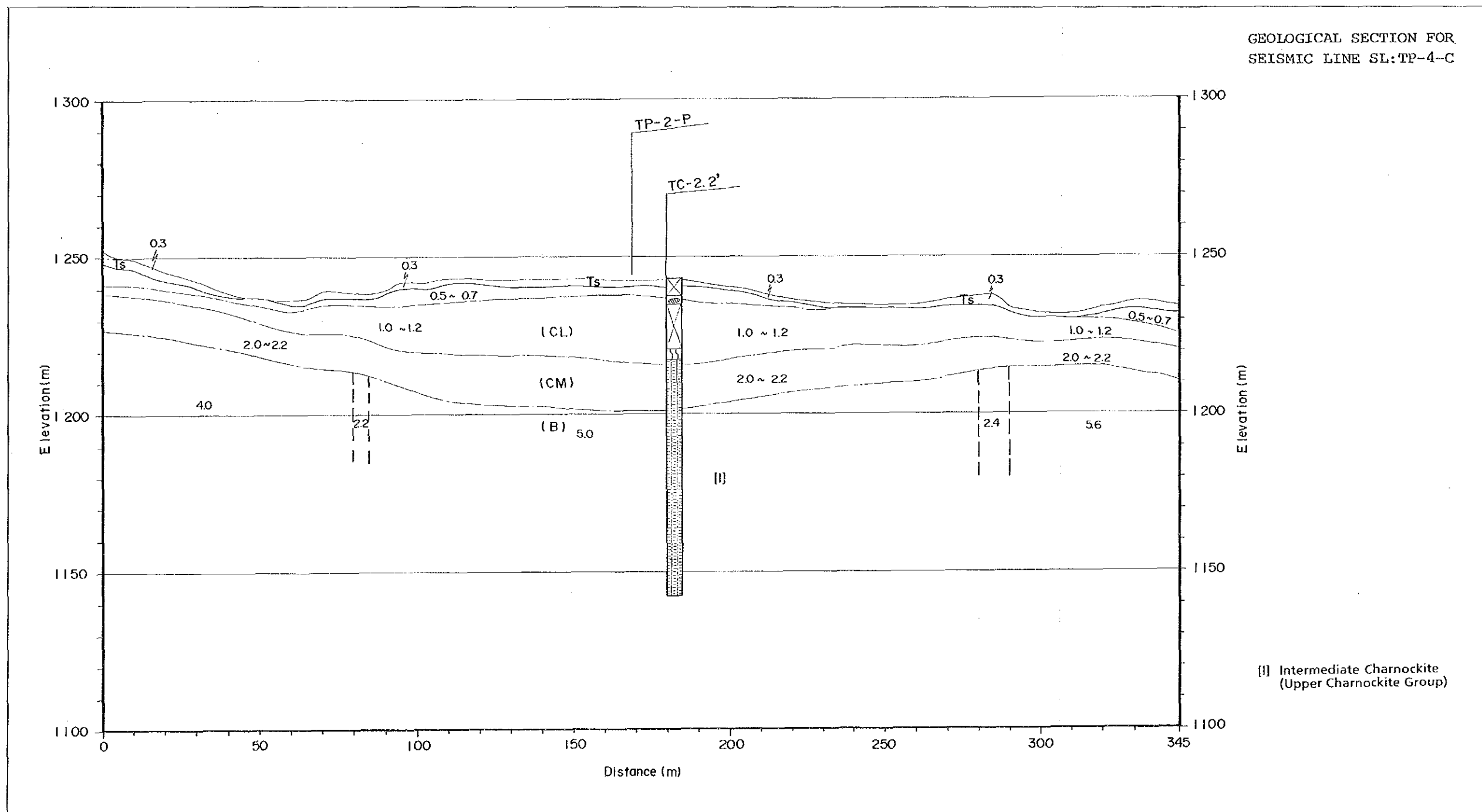
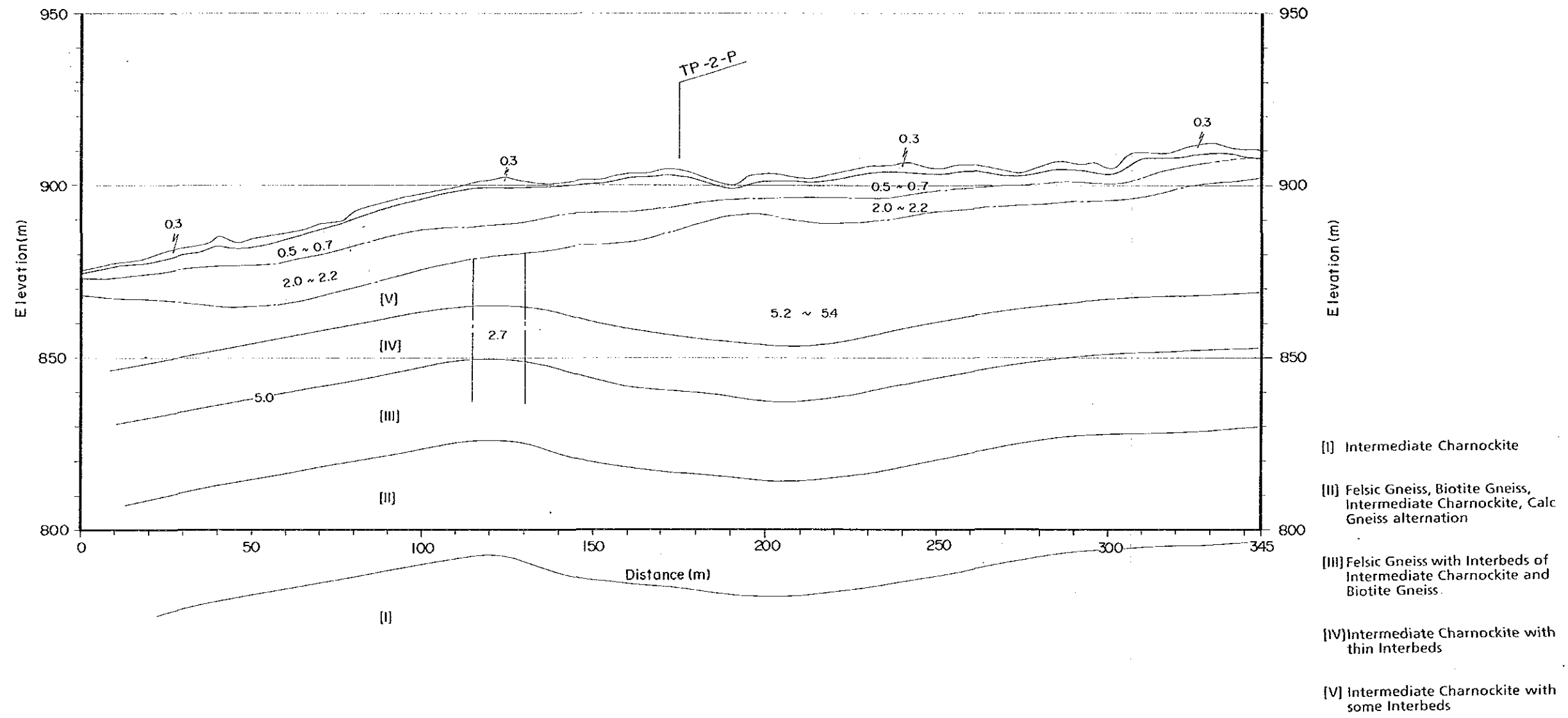
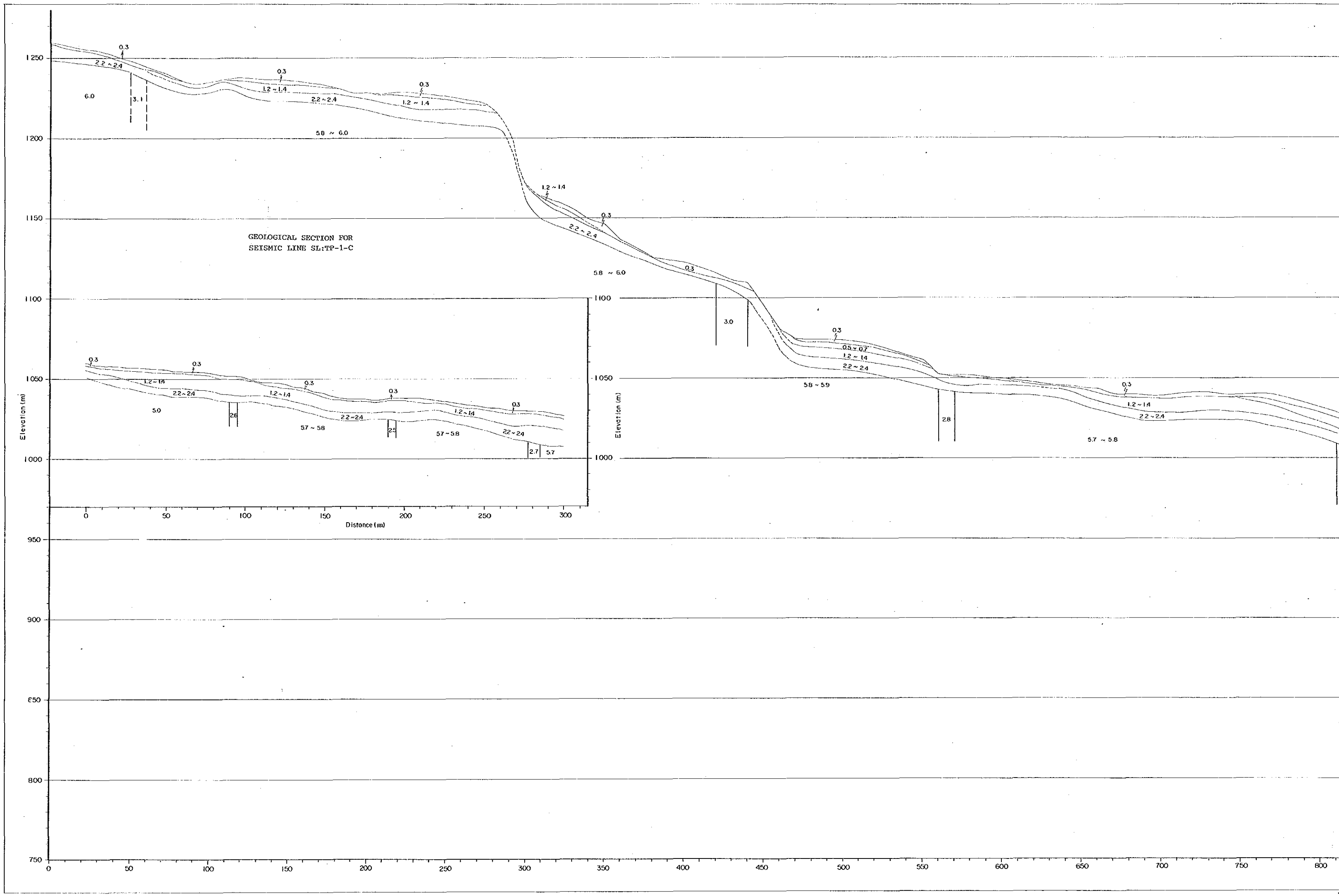


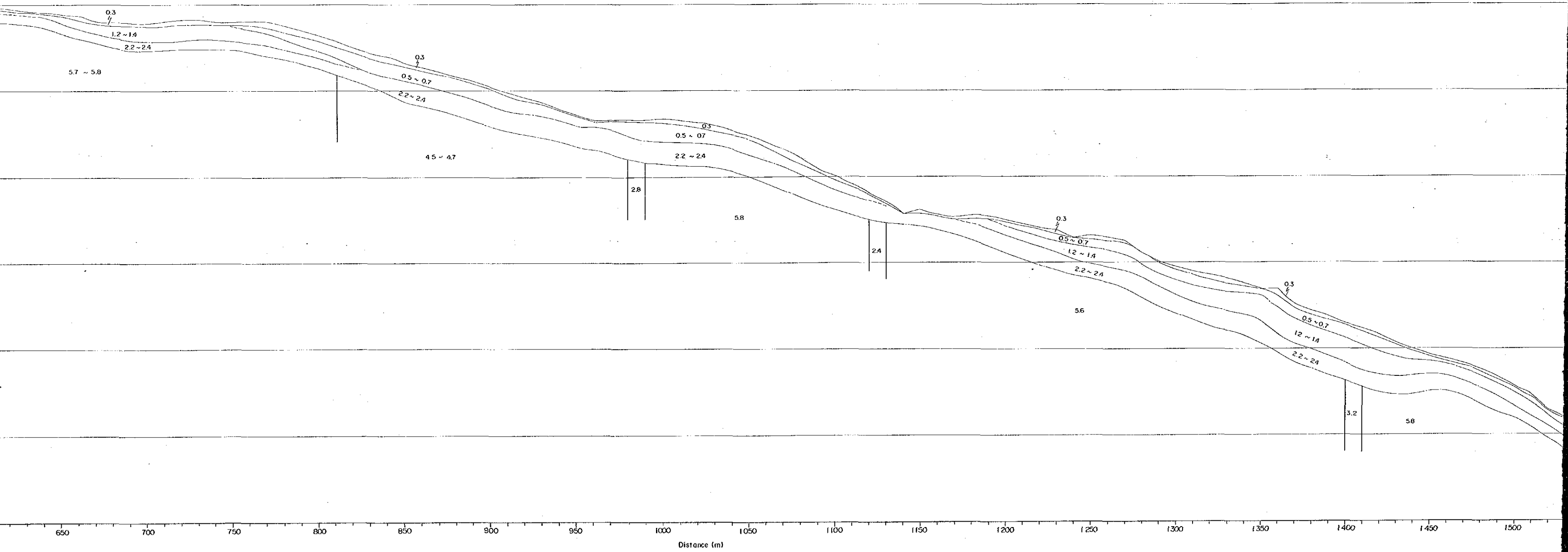


FIG. I.4-28

GEOLOGICAL SECTION FOR  
SEISMIC LINE SL:TP-5-C







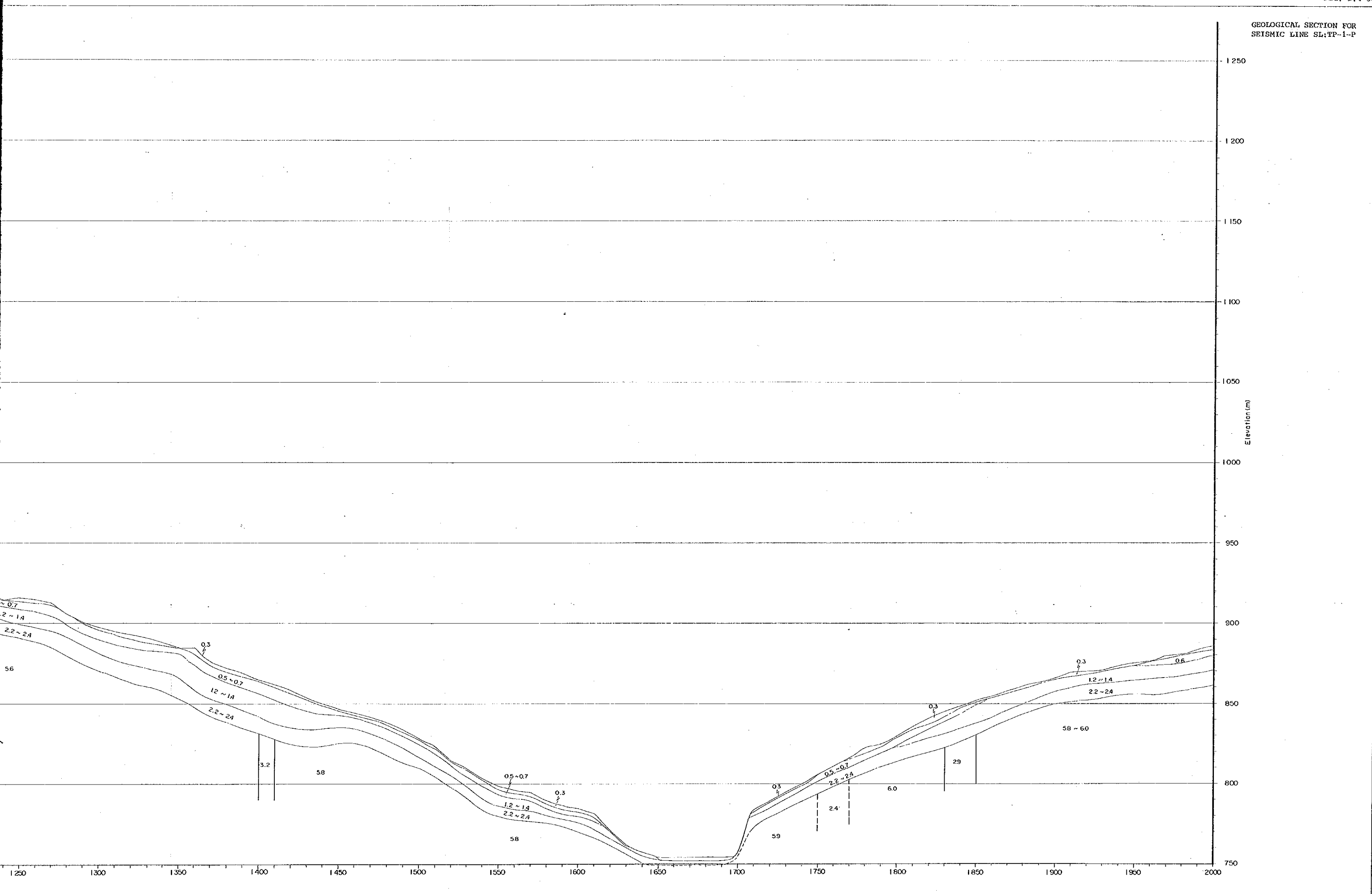


FIG. I.5-1

LUGEON MAP  
FOR SEISMIC LINE SL:CD-1

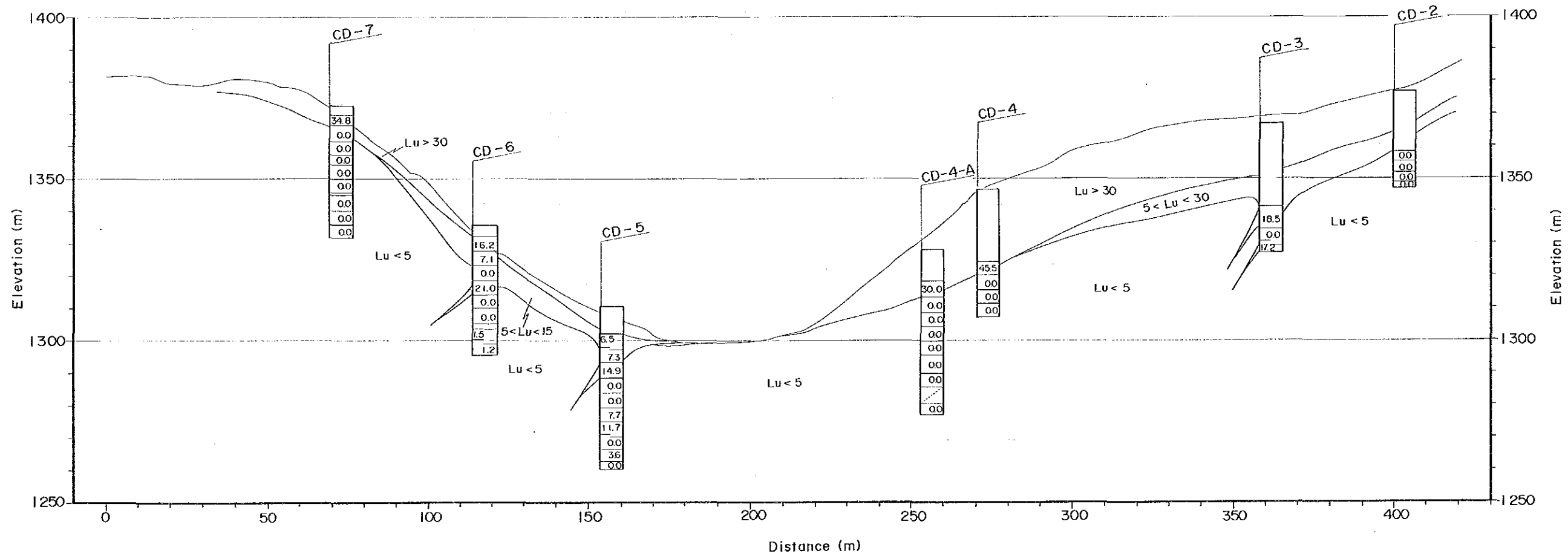


FIG. I.5-2  
FIG. I.5-3

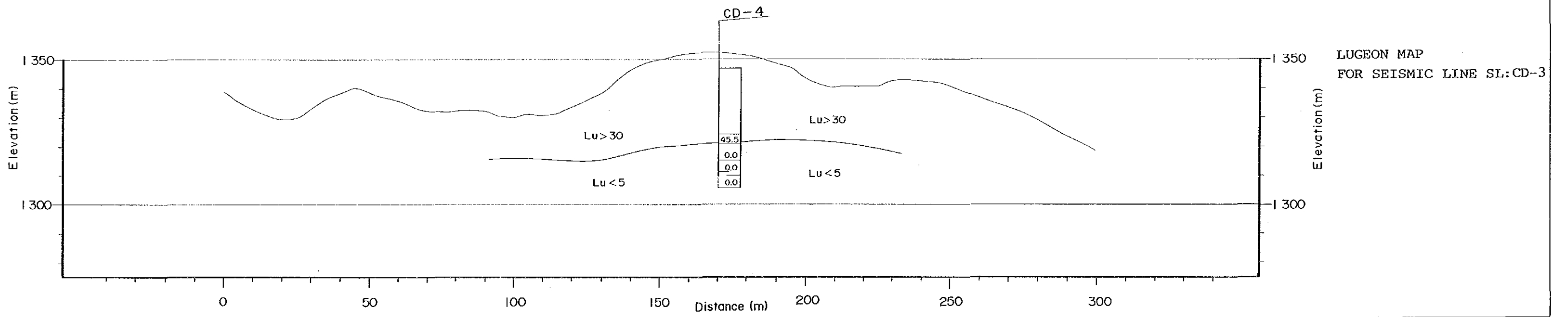
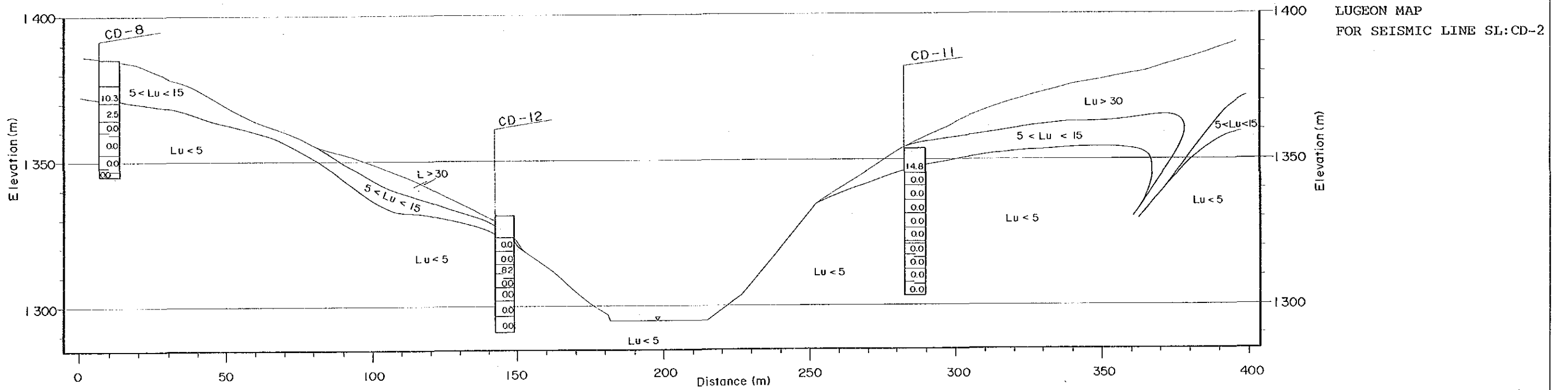
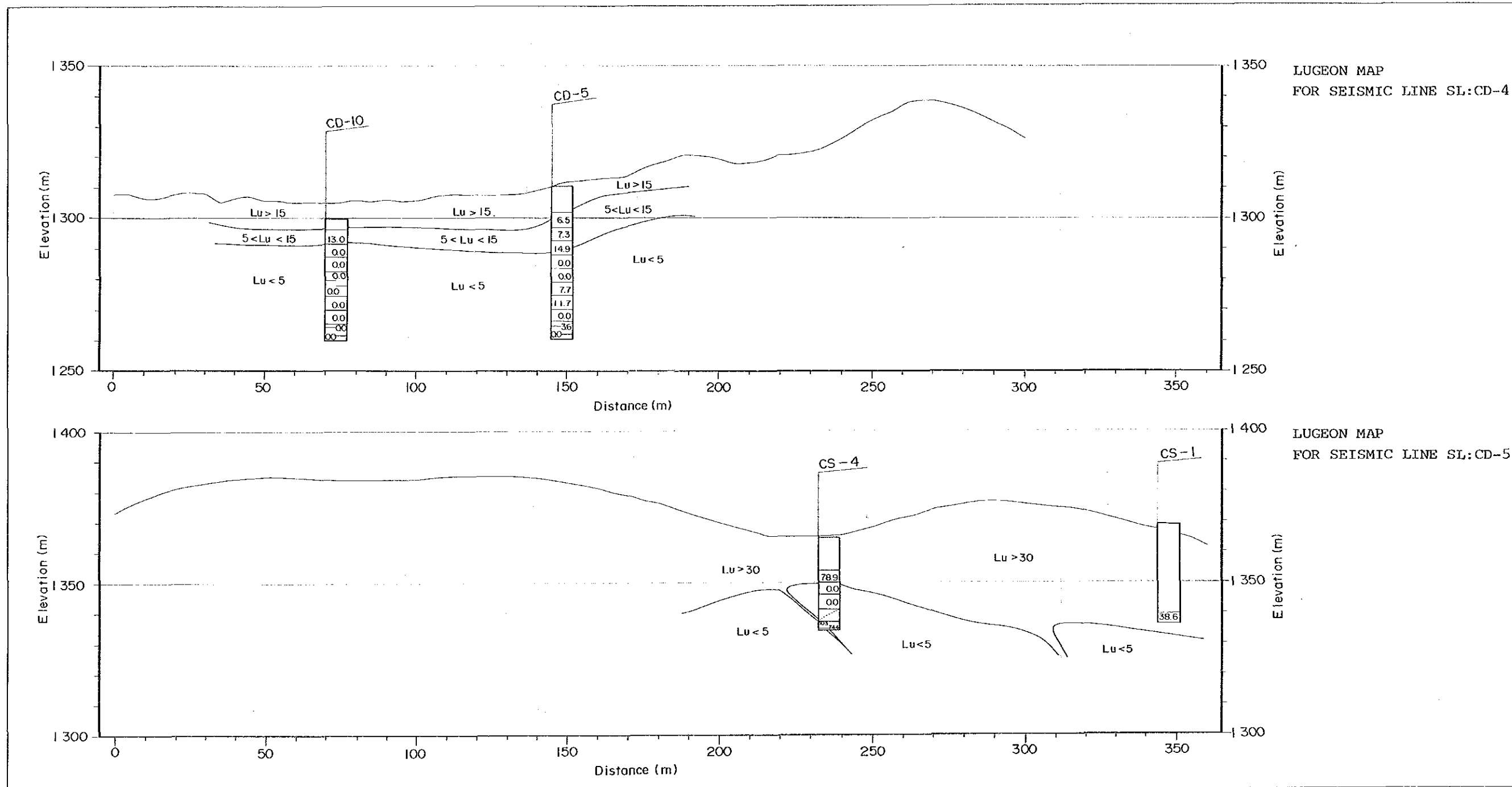


FIG. I.5-4  
FIG. I.5-5



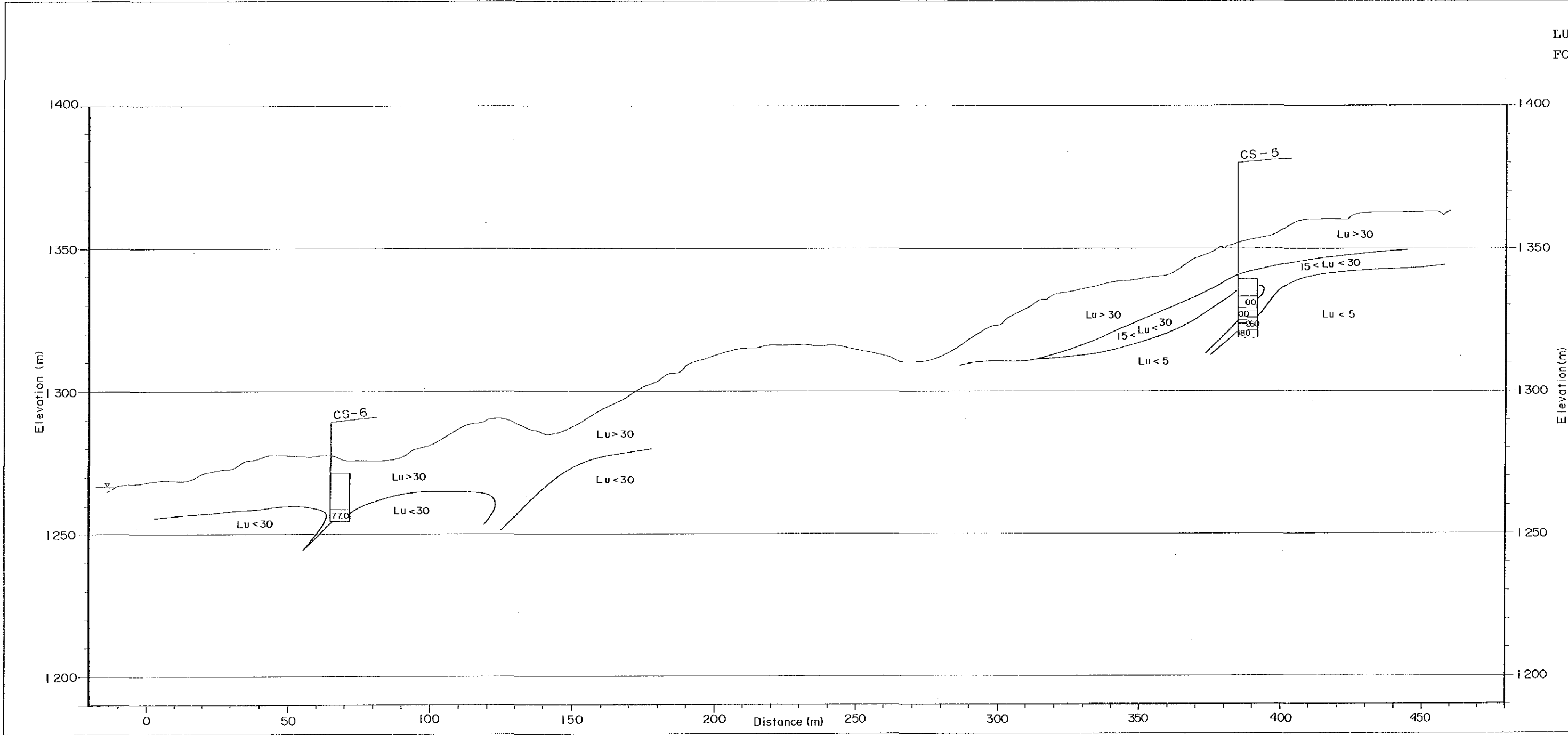




FIG. I.5-6

LUGEON MAP  
FOR SEISMIC LINE SL:CD-6

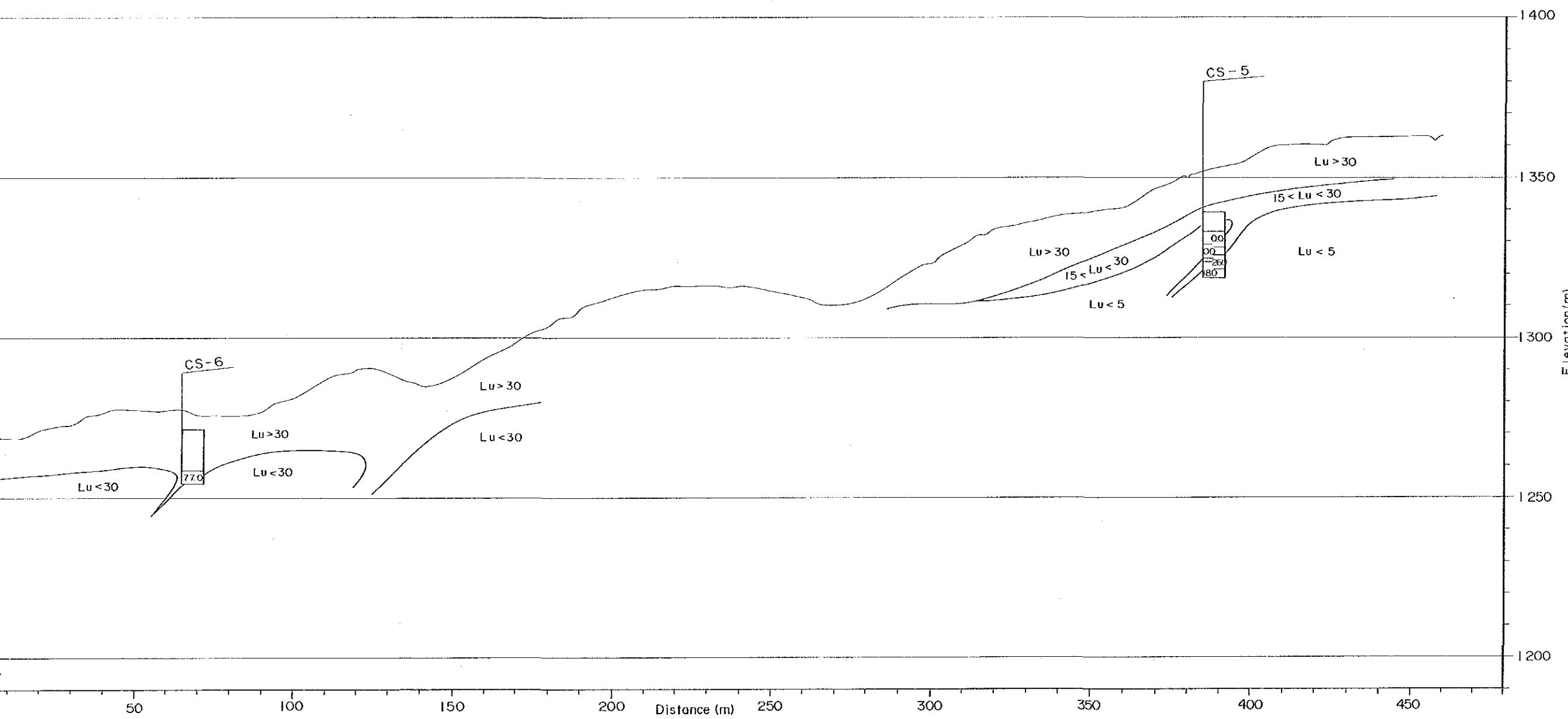
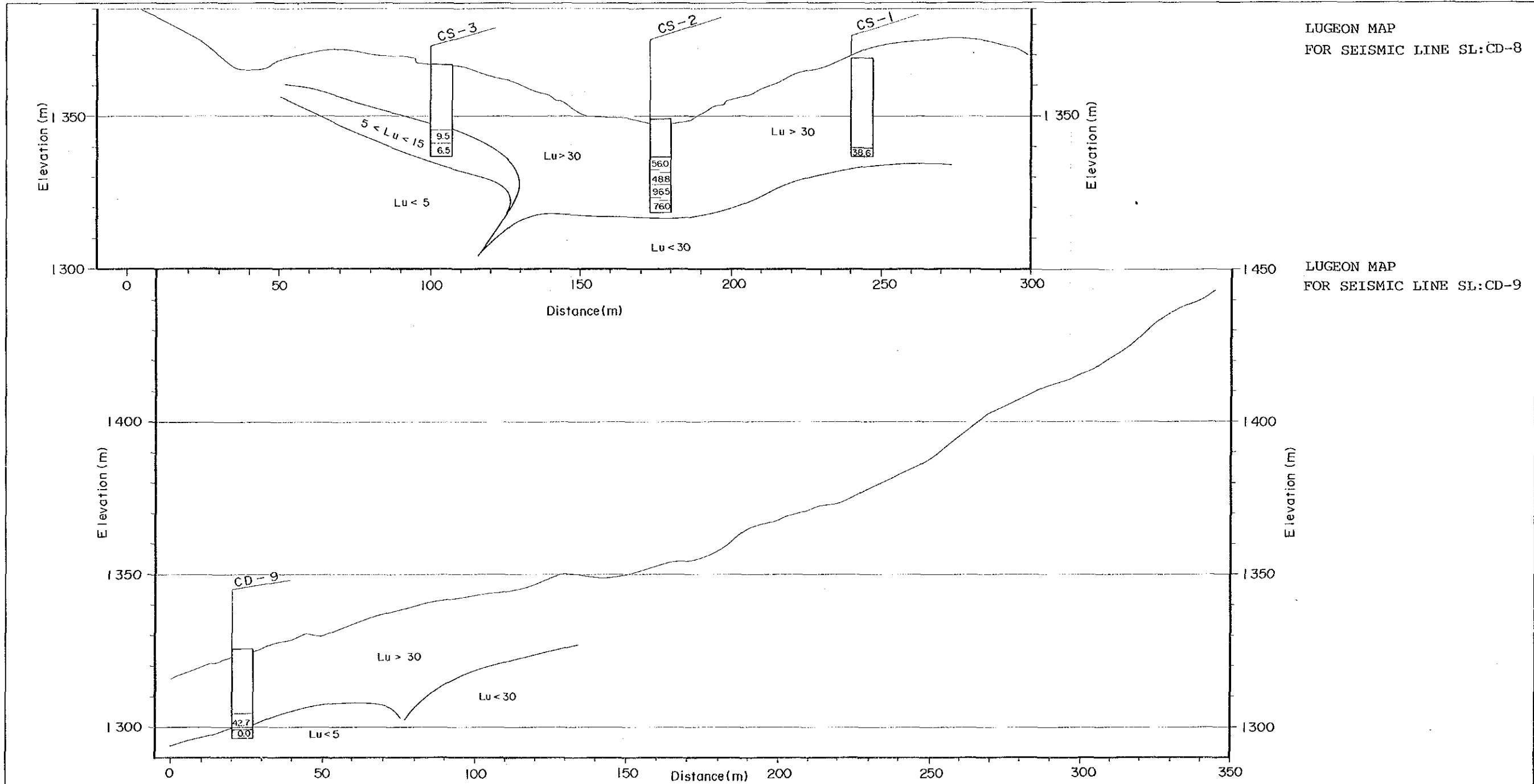


FIG. I.5-7  
FIG. I.5-8



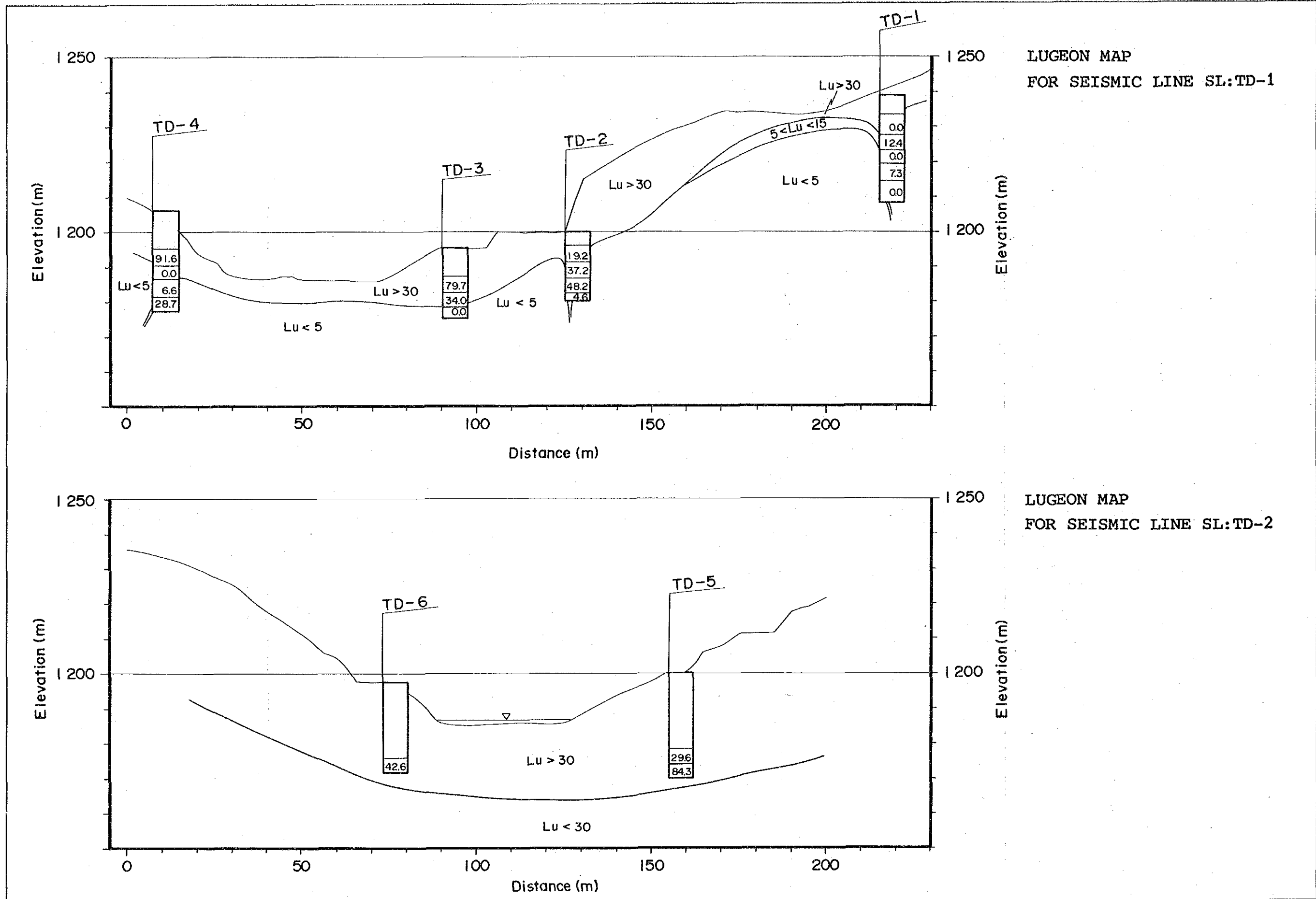


FIG. 1.

LUGEON MAP  
FOR SEISMIC LINE SL:CP

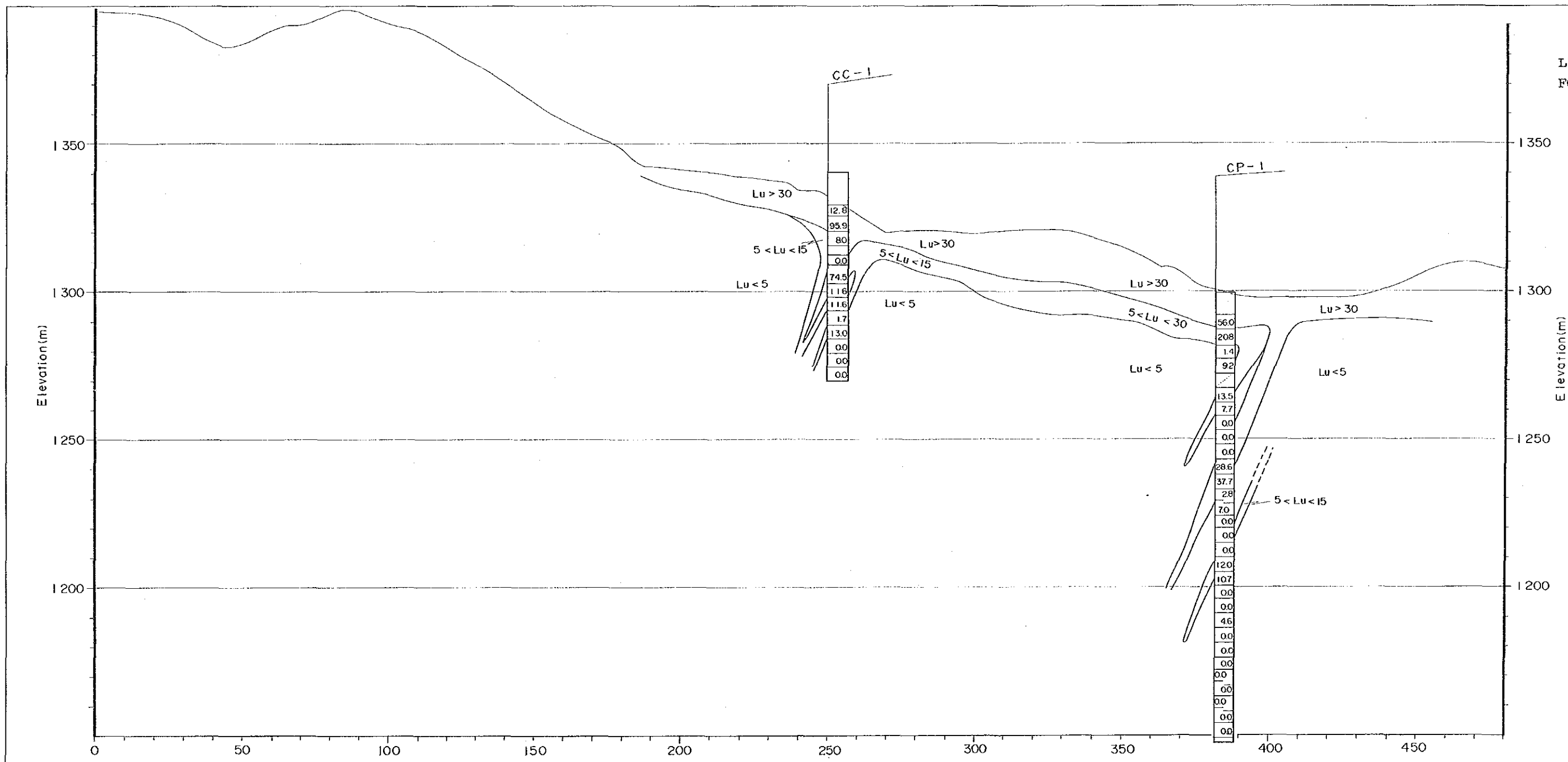
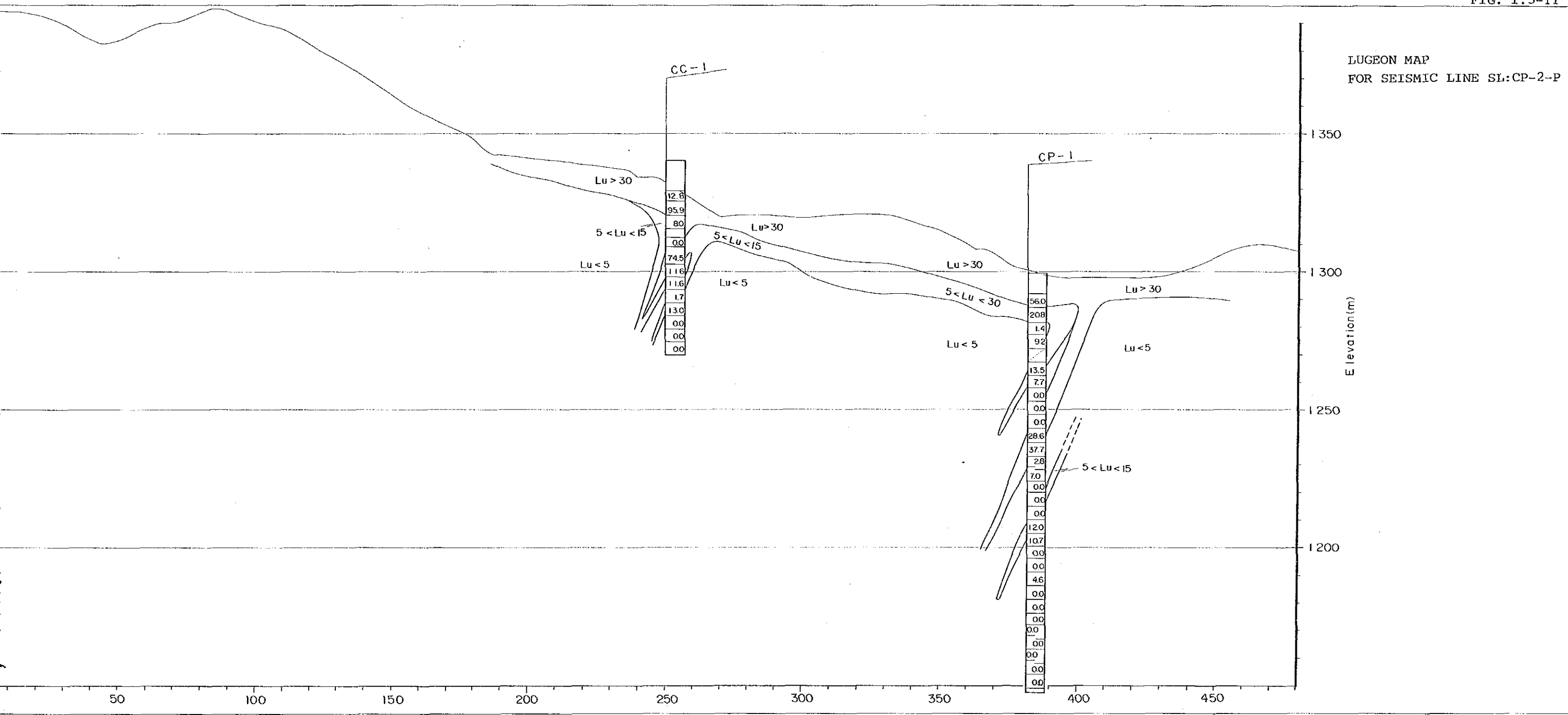
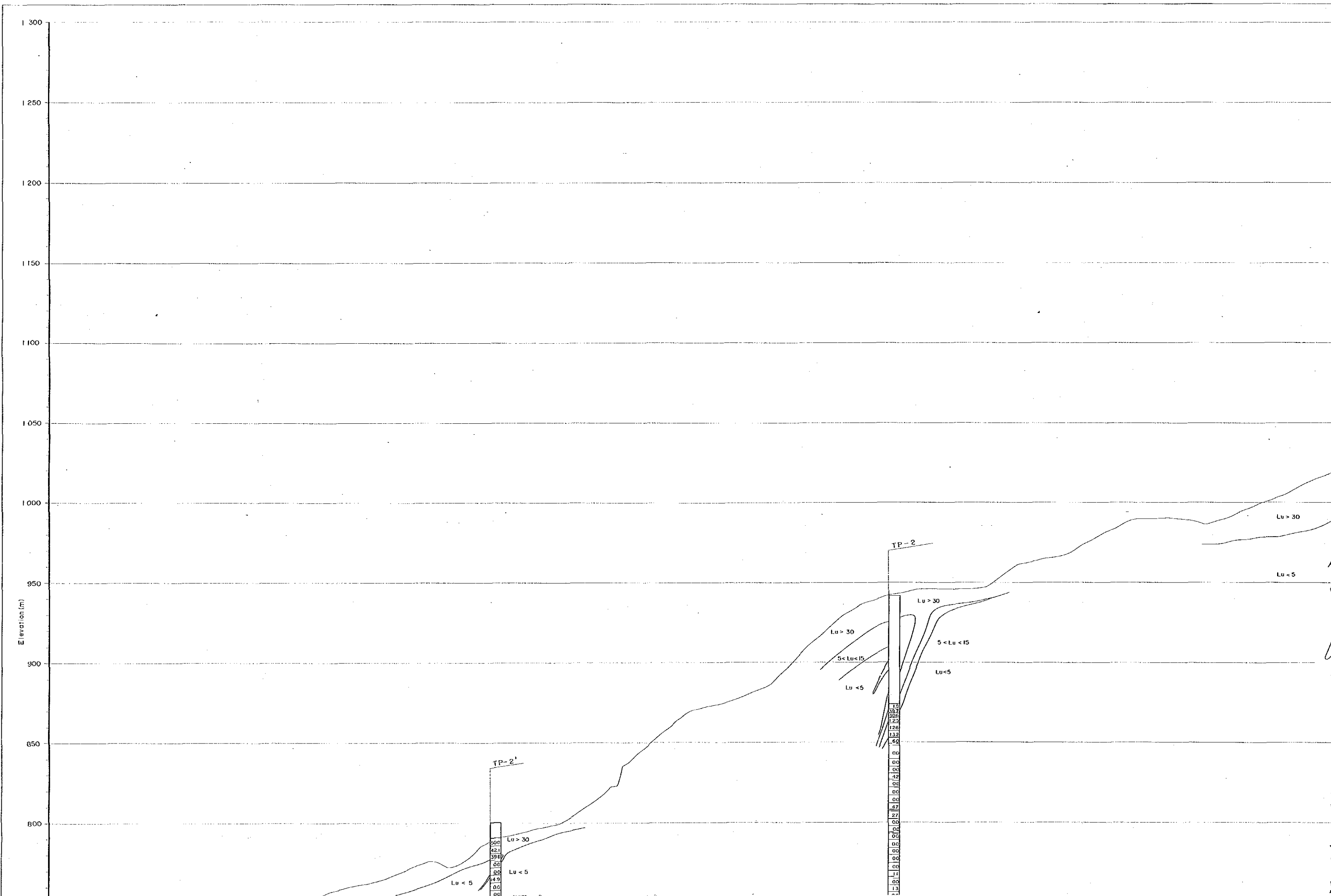


FIG. I.5-11





Elevation (m)

1300

1250

1200

1150

1100

1050

1000

950

900

850

800

TP-2'

TP-2

Lu < 5

Lu < 5

Lu > 30

Lu > 30

5 < Lu < 15

Lu < 5

Lu > 30

5 < Lu < 15

Lu < 5

Lu > 30

Lu < 5

500

42.1

39.6

00

00

4.9

00

19

33.7

30.4

12.3

12.6

13.2

6.0

00

00

00

42

00

00

47

27

00

00

00

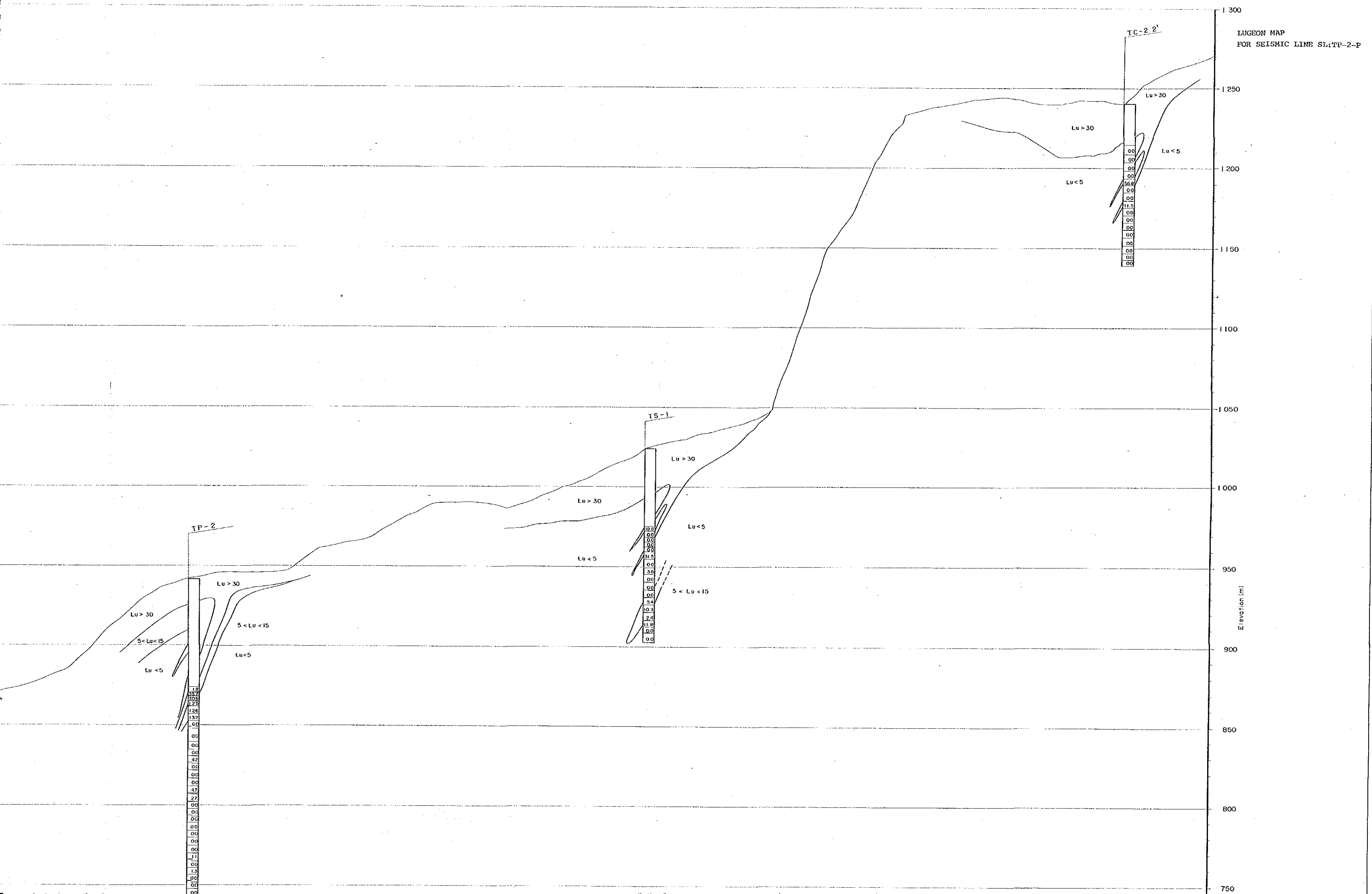
00

11

00

13

2











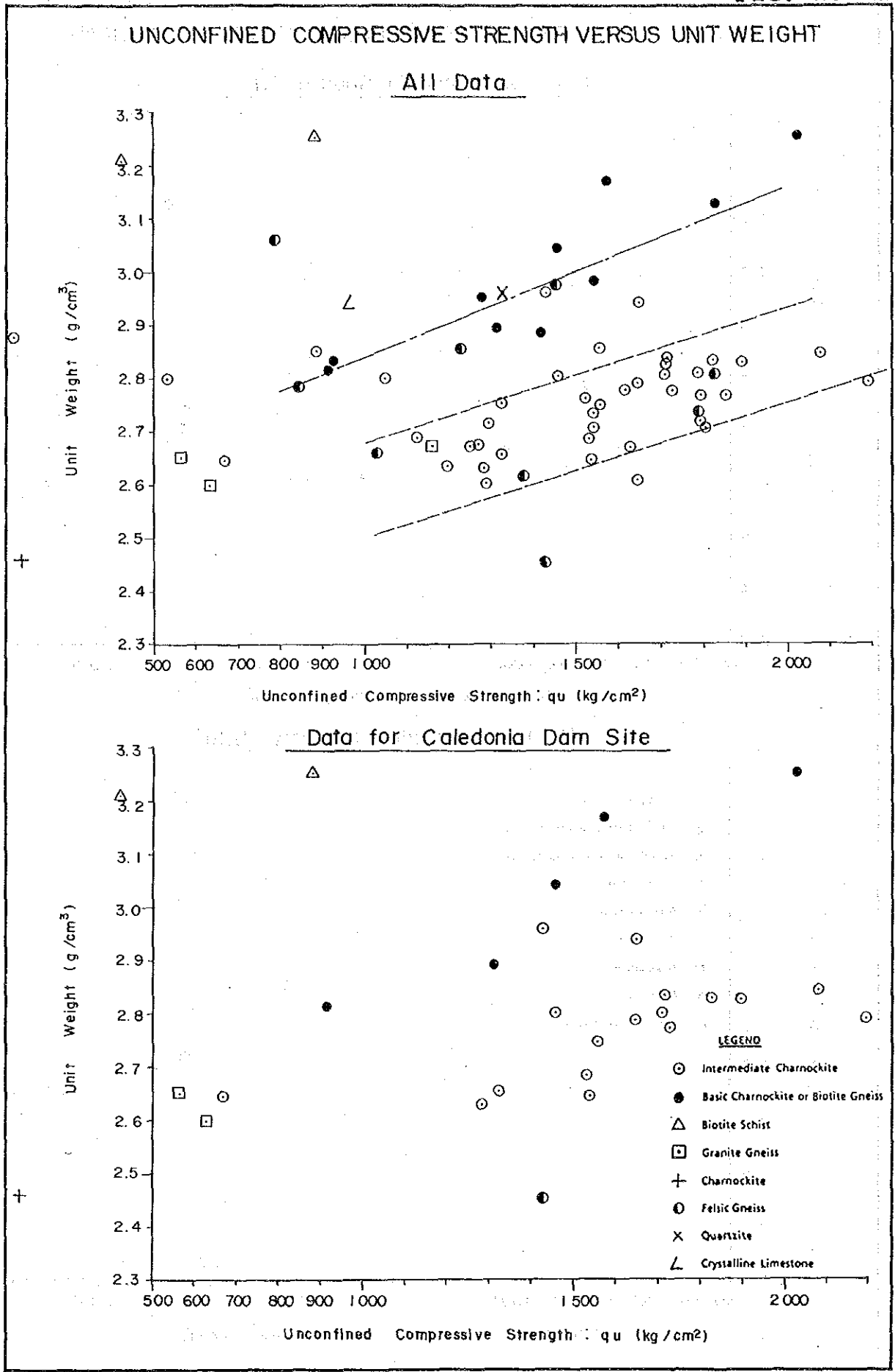
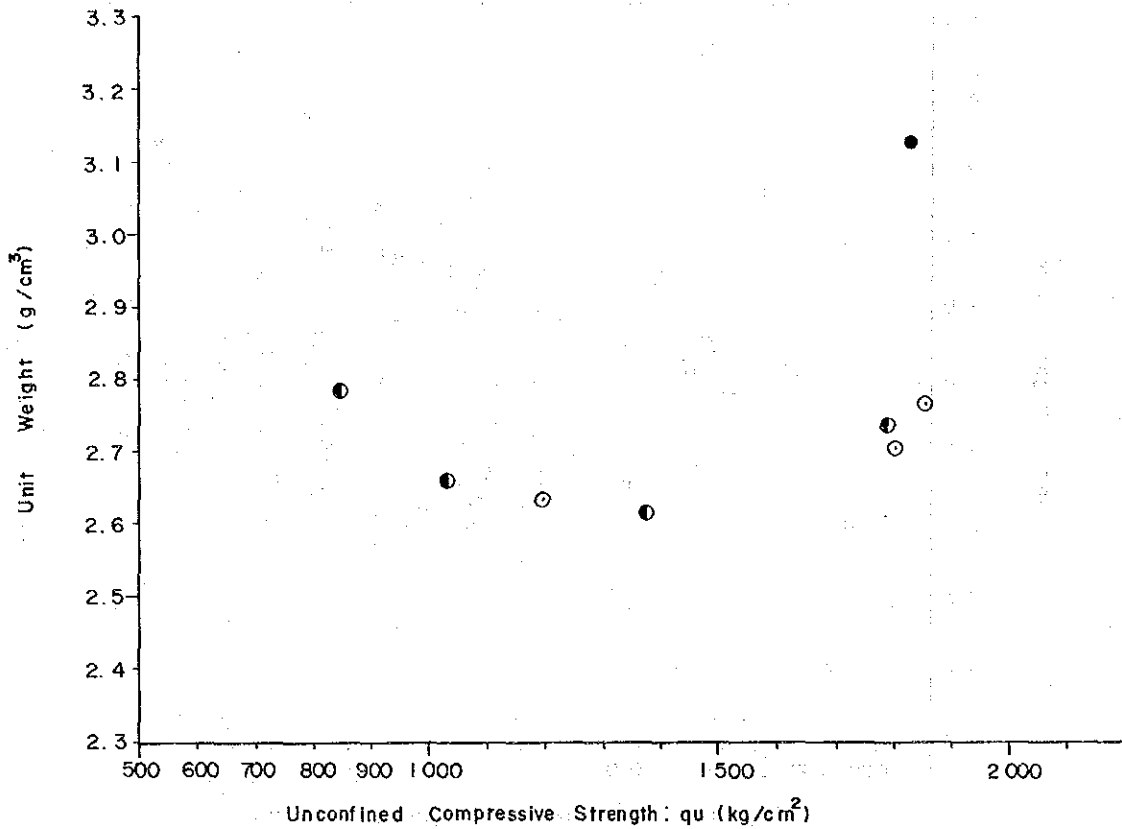


FIG. I.6-1

UNCONFINED COMPRESSIVE STRENGTH VERSUS UNIT WEIGHT

Data for Caledonia Saddle Site



Data for Caledonia Quarry Site

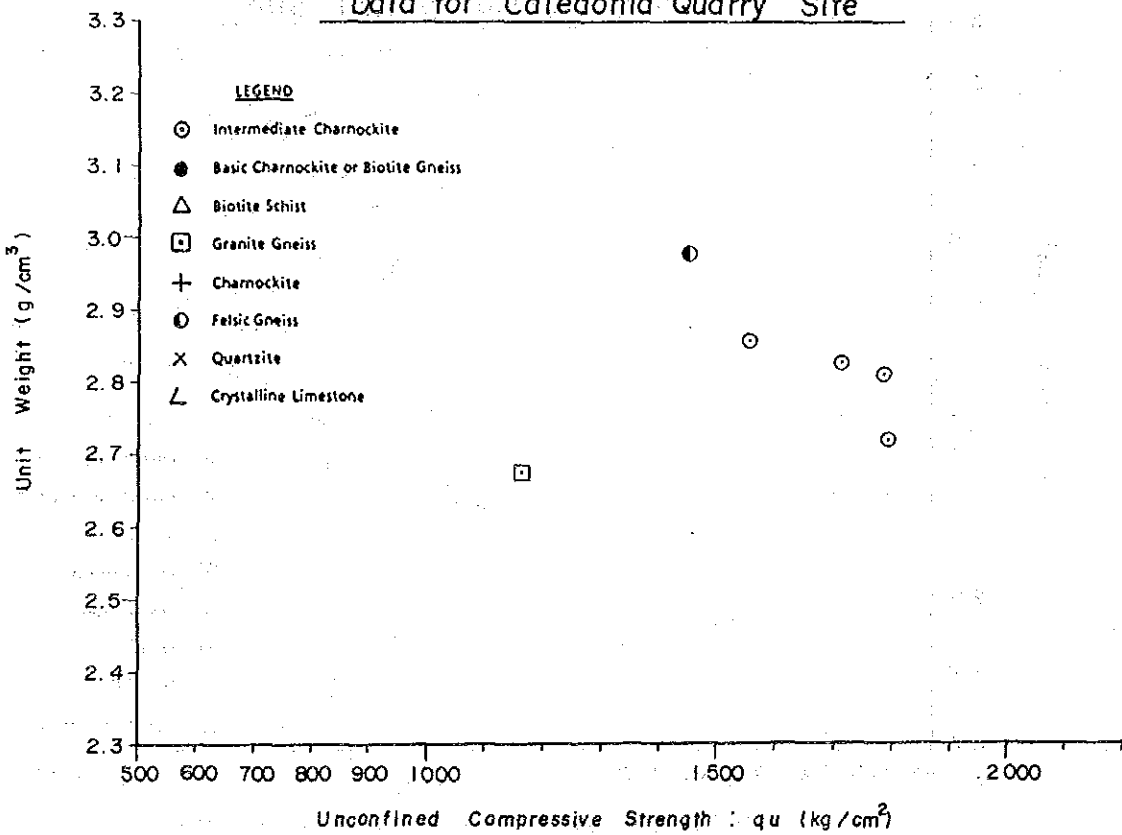


FIG. I.6-1

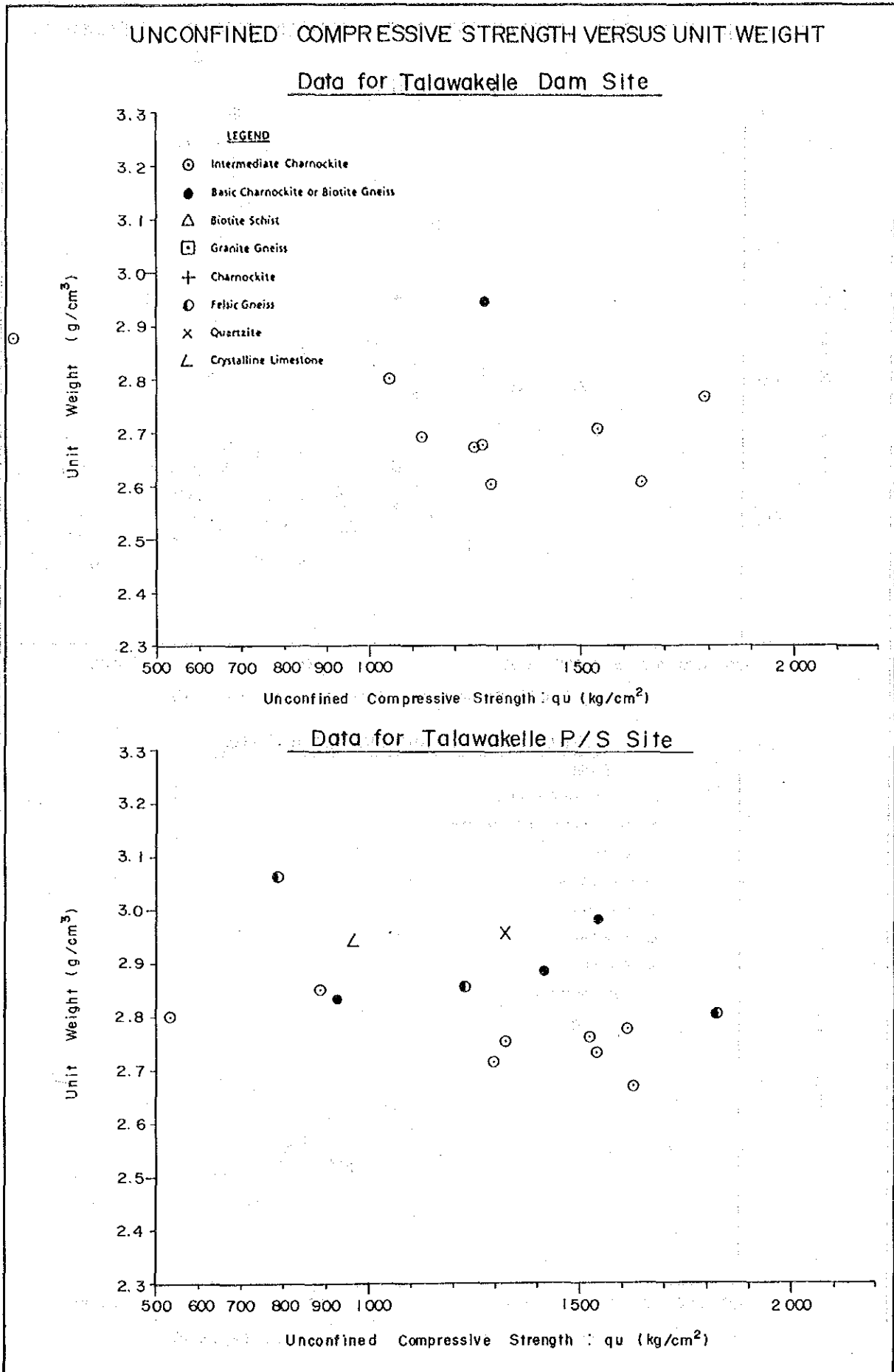


FIG. I.6-2

UNCONFINED COMPRESSIVE STRENGTH VERSUS EFFECTIVE POROSITY

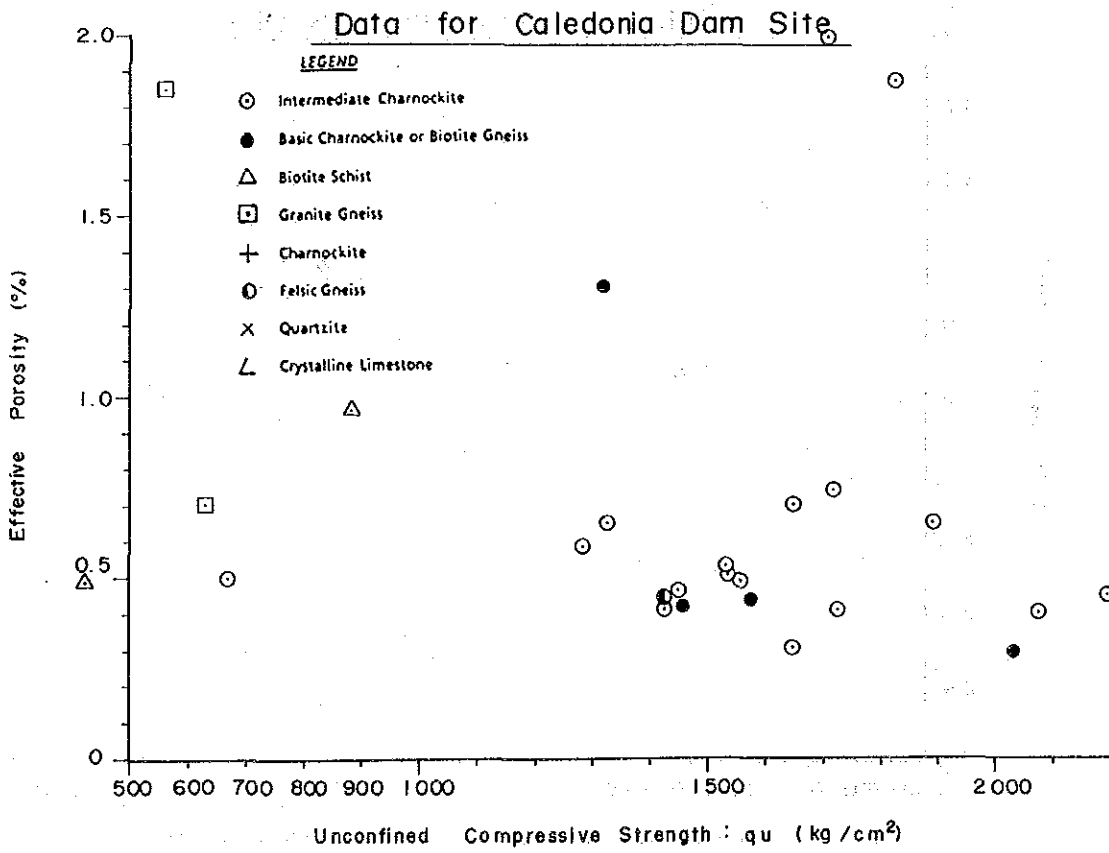
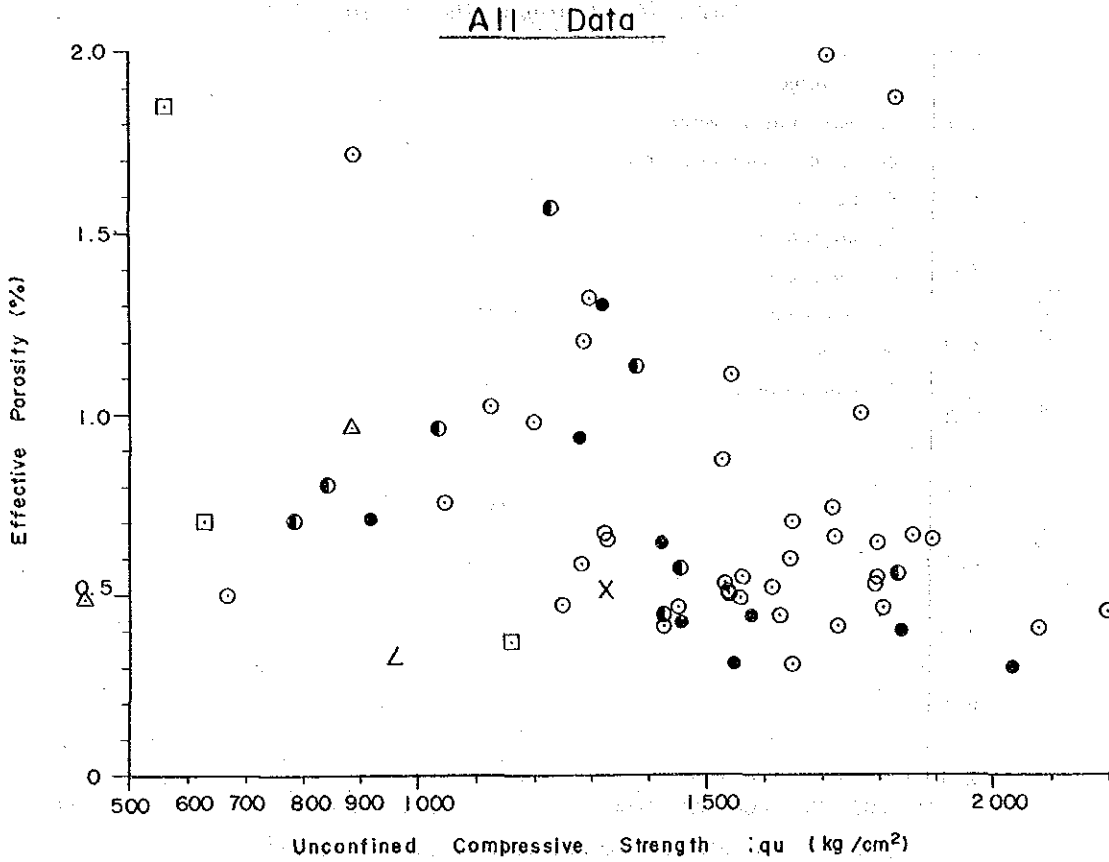
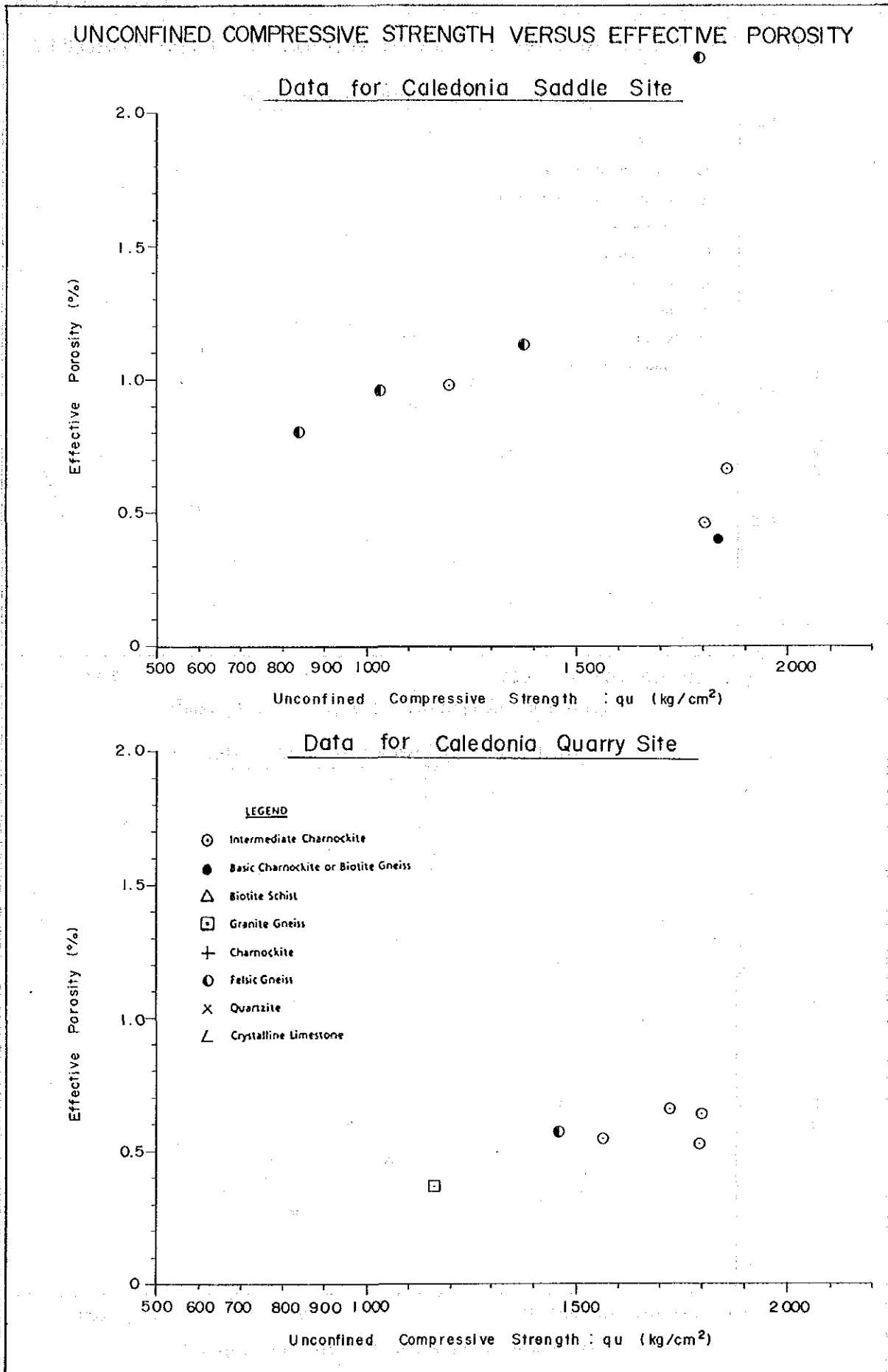
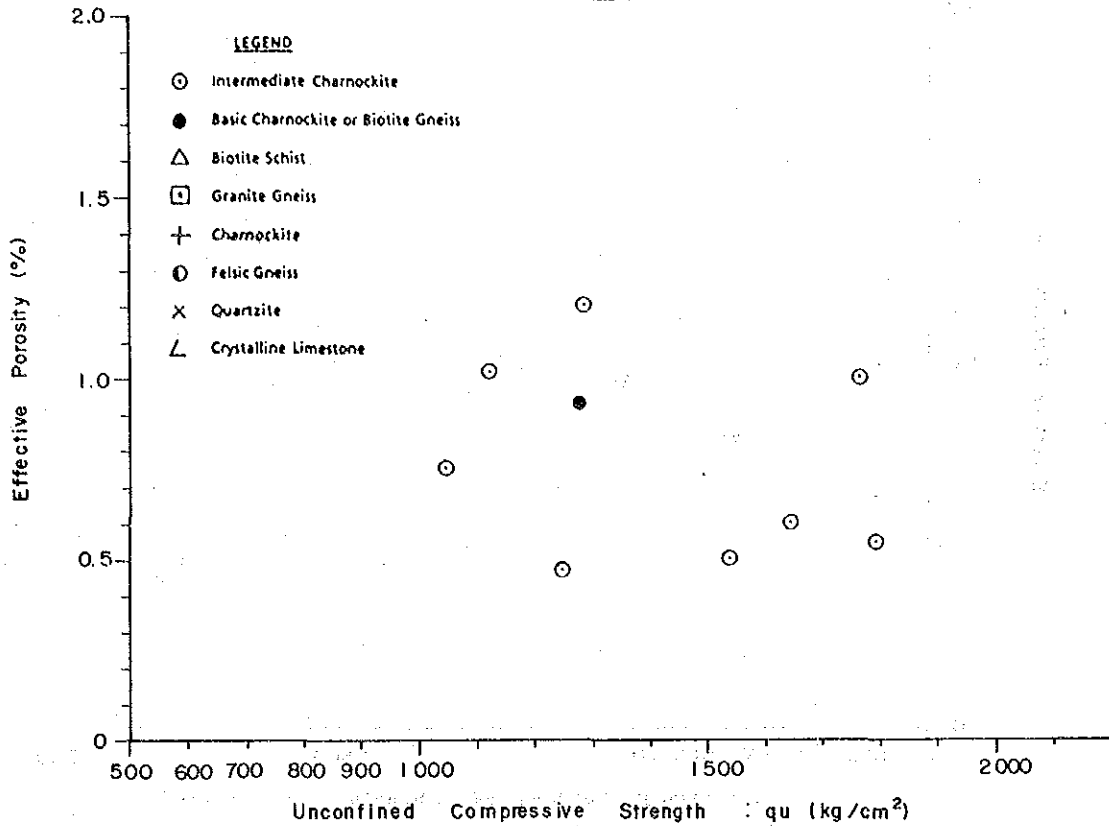


FIG. I.6-2



UNCONFINED COMPRESSIVE STRENGTH VERSUS EFFECTIVE POROSITY

Data for Talawakelle Dam Site



Data for Talawakelle P/S Site

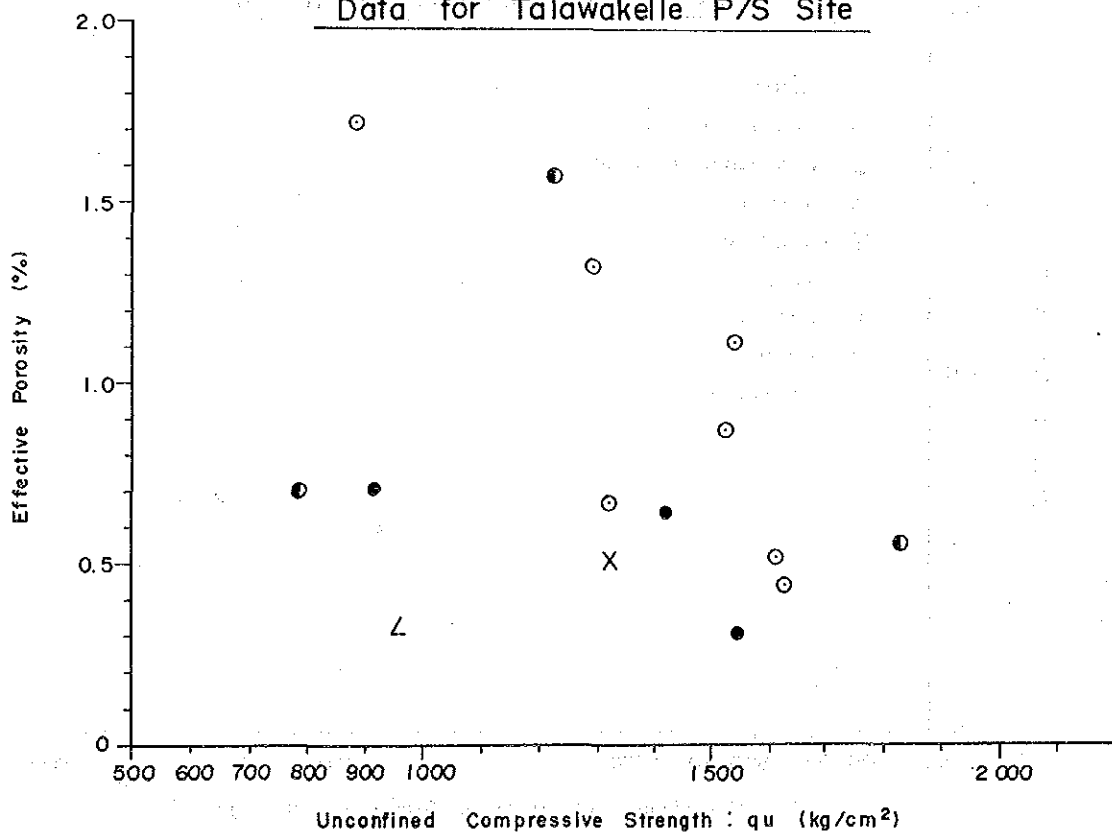
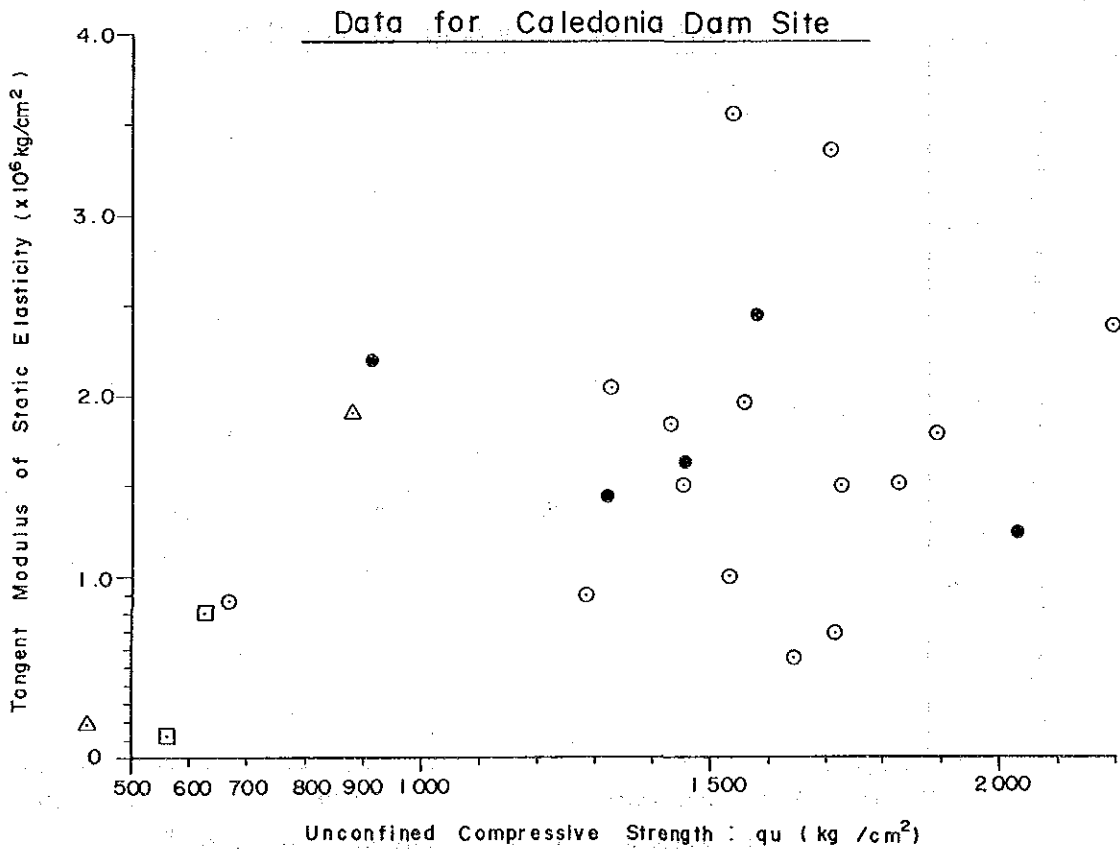
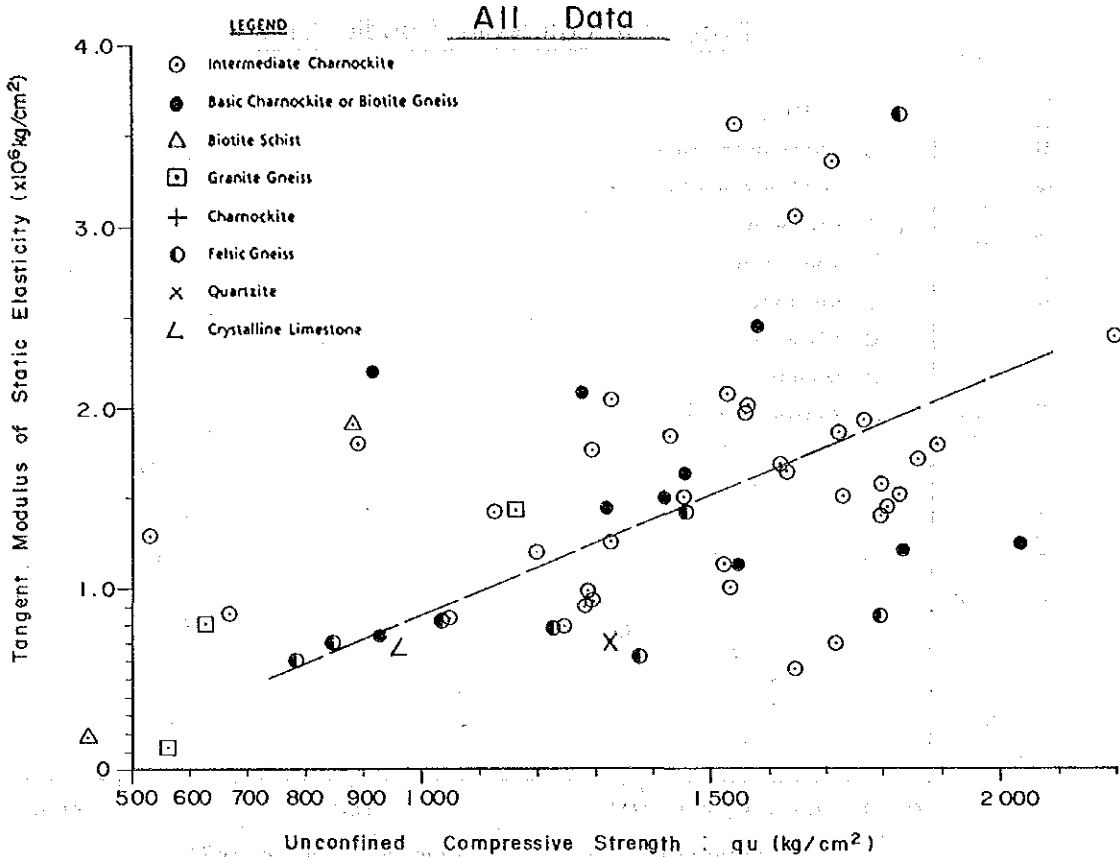


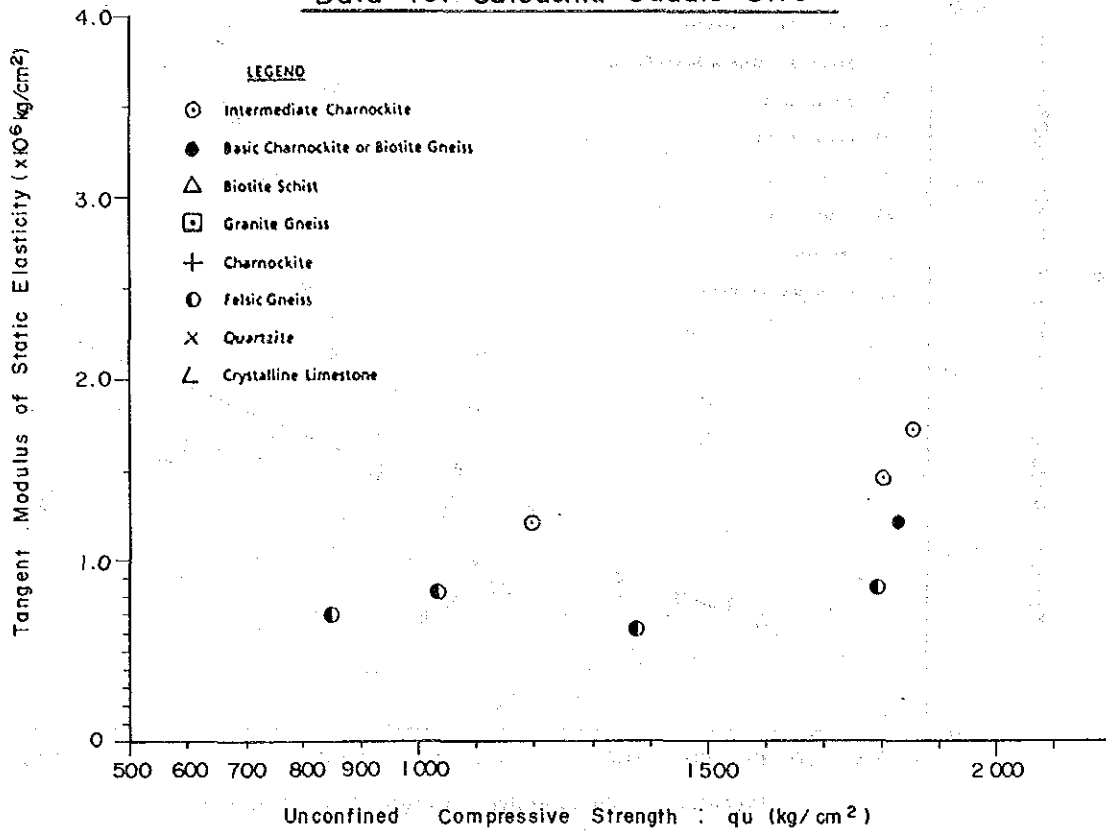


FIG. I.6-3

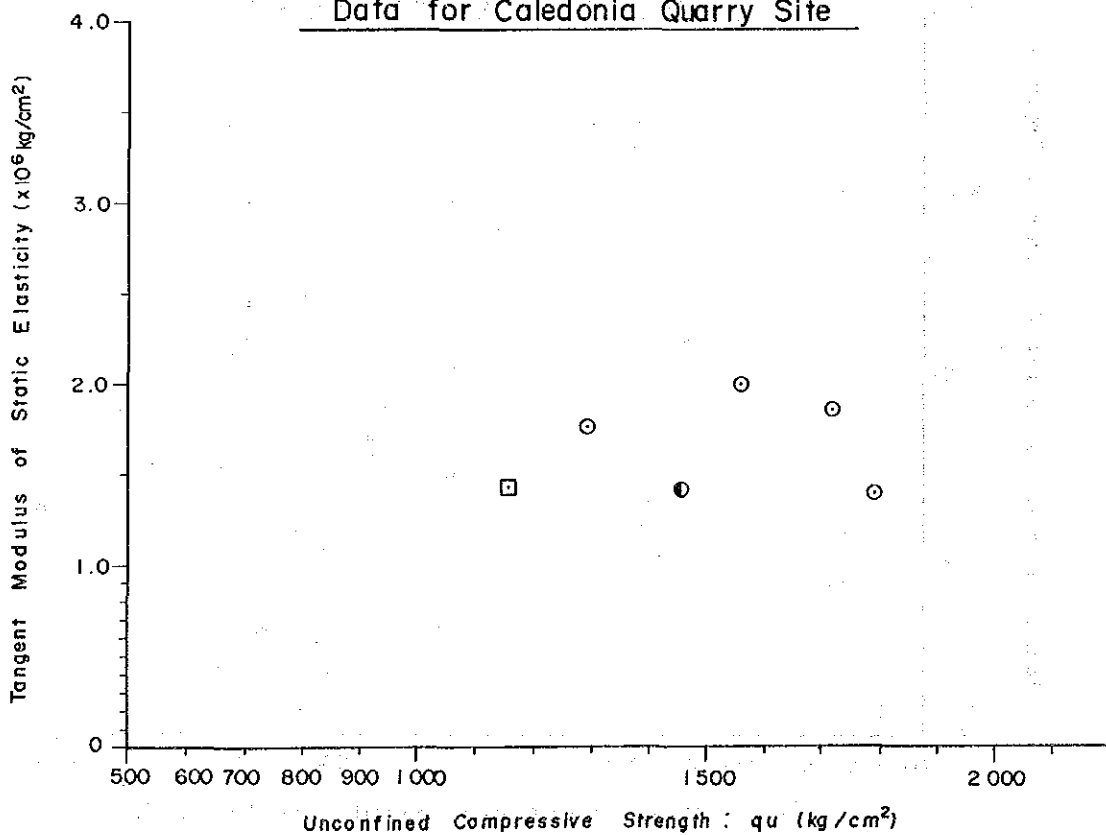
UNCONFINED COMPRESSIVE STRENGTH  
VERSUS TANGENT MODULUS OF STATIC ELASTICITY



UNCONFINED COMPRESSIVE STRENGTH  
VERSUS TANGENT MODULUS OF STATIC ELASTICITY  
Data for Caledonia Saddle Site



Data for Caledonia Quarry Site



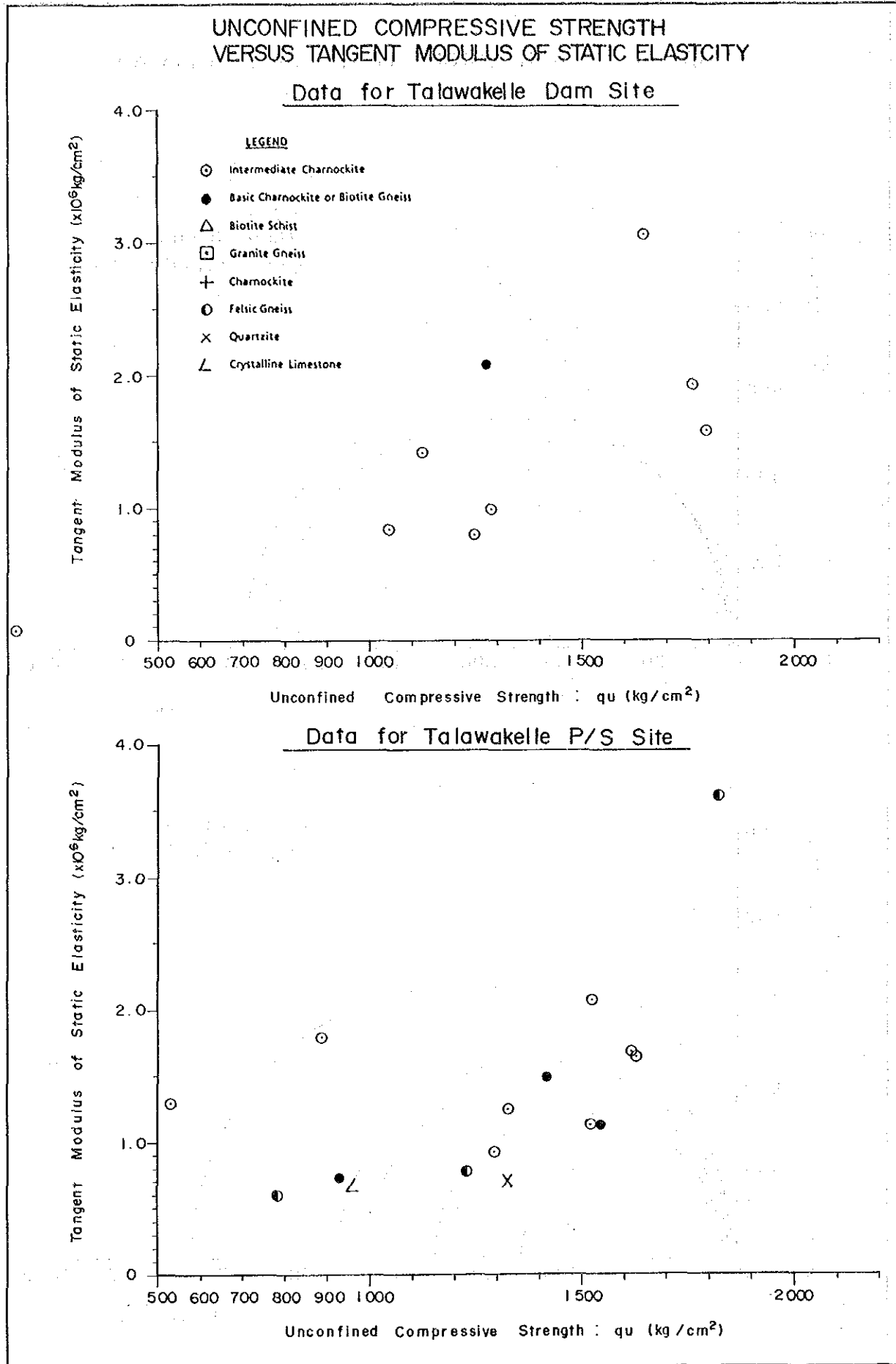


FIG. I.6-4

TRIAxIAL COMPRESSION TEST DATA (1 of 4)

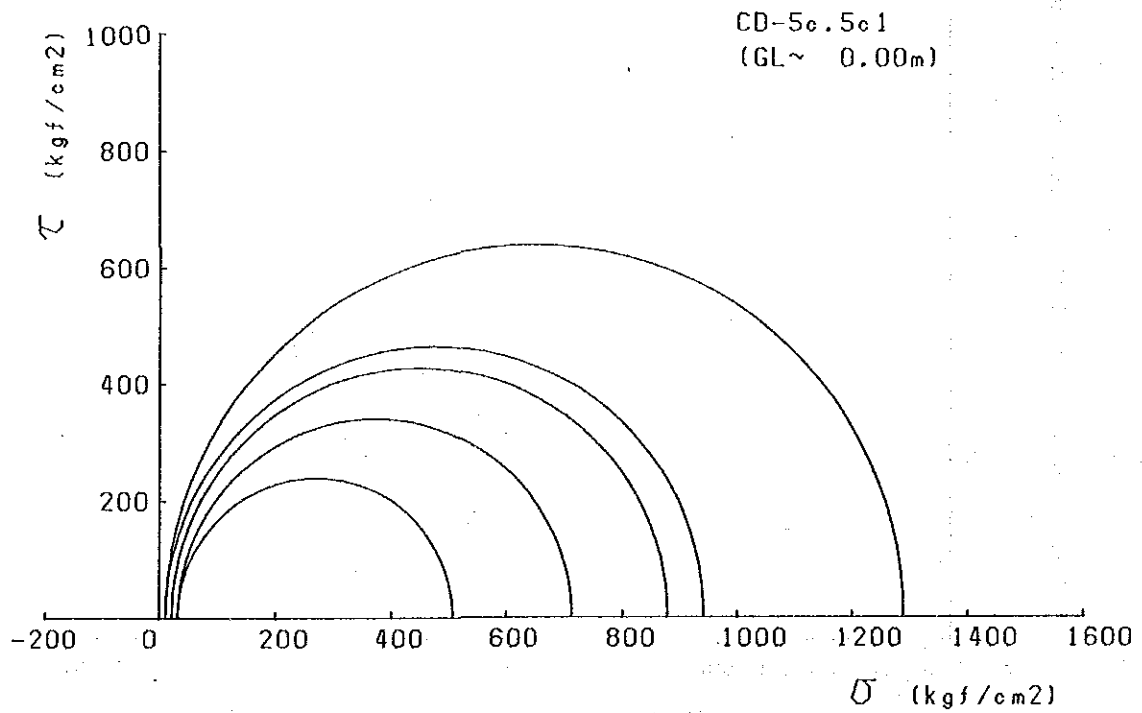
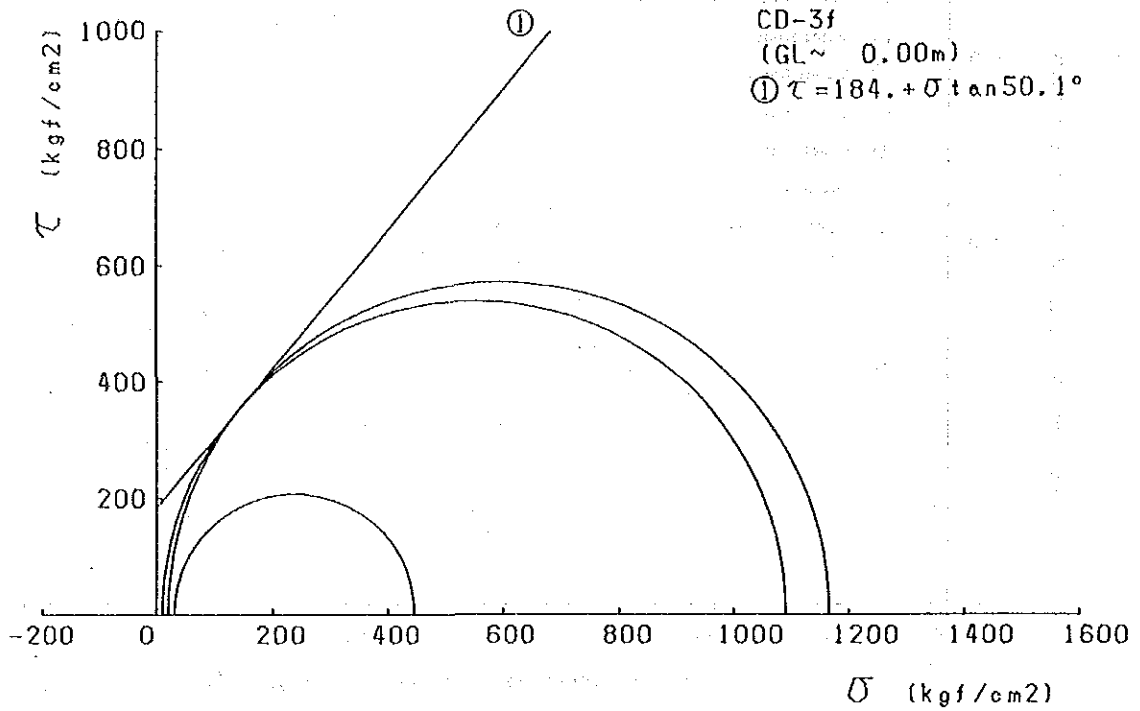


FIG. I.6-4

TRIAxIAL COMPRESSION TEST DATA (2 of 4)

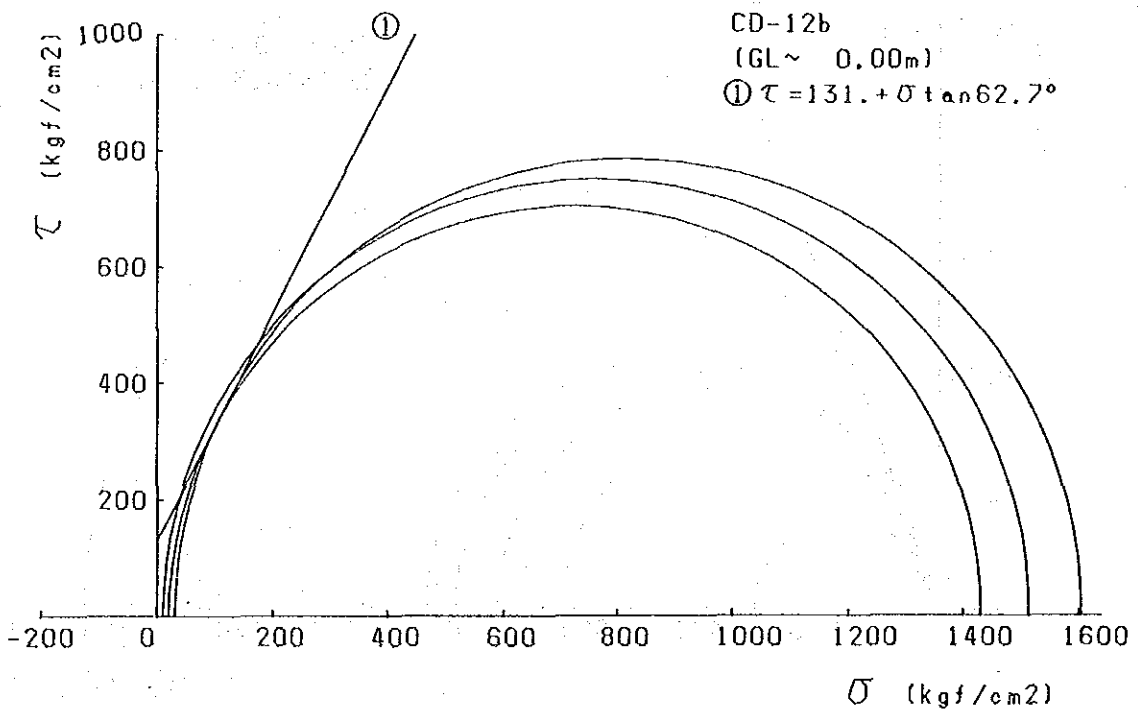
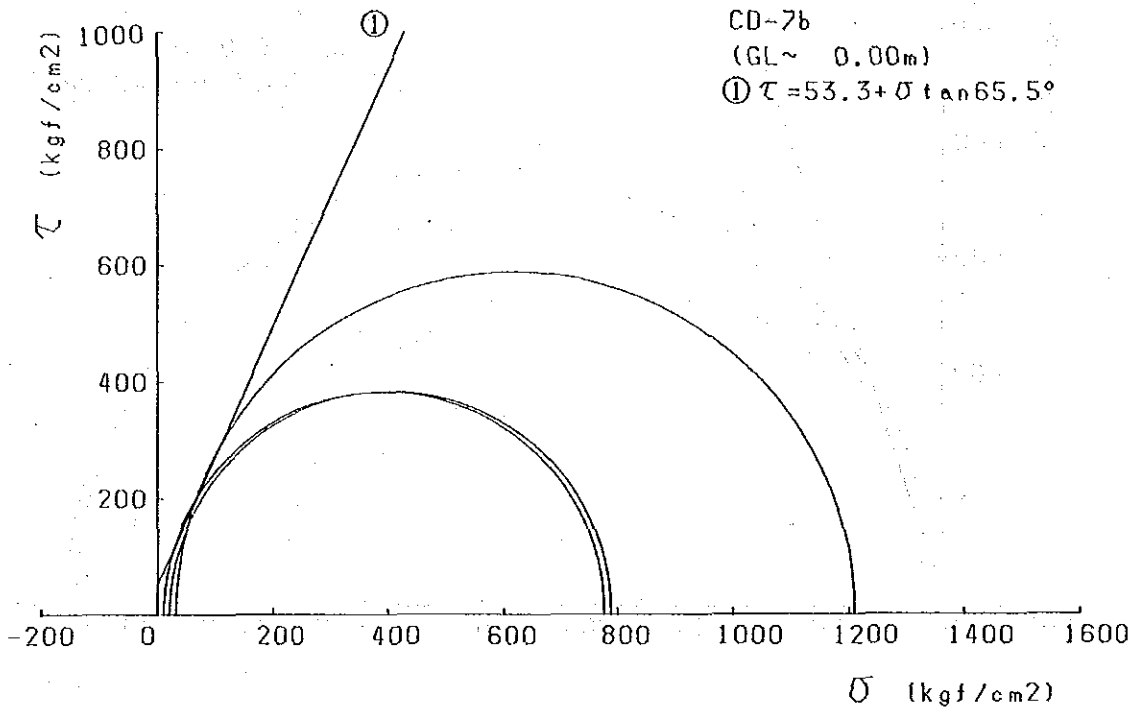


FIG. I.6-4

TRIAxIAL COMPRESSION TEST DATA (3 of 4)

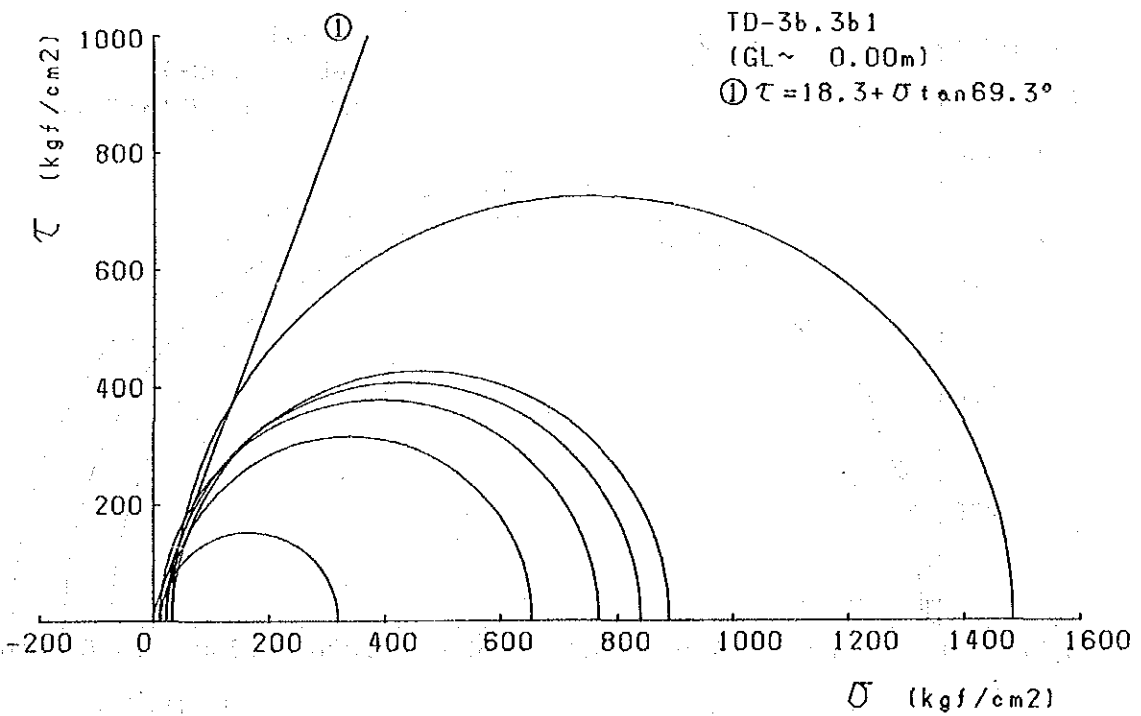
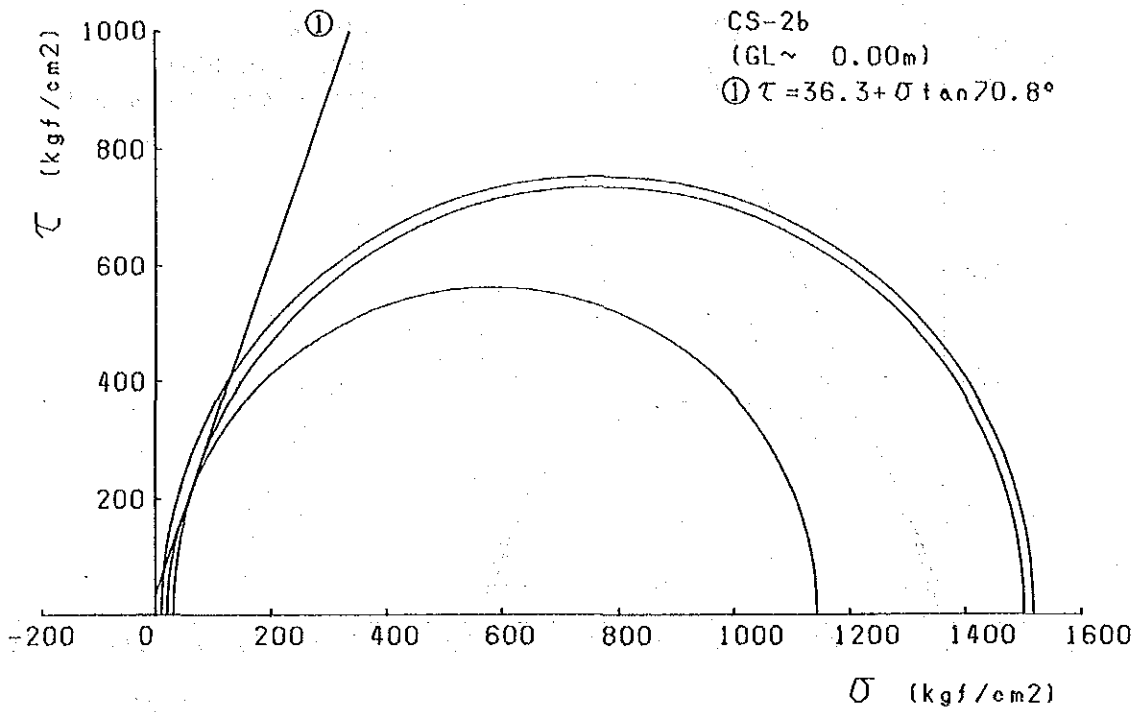
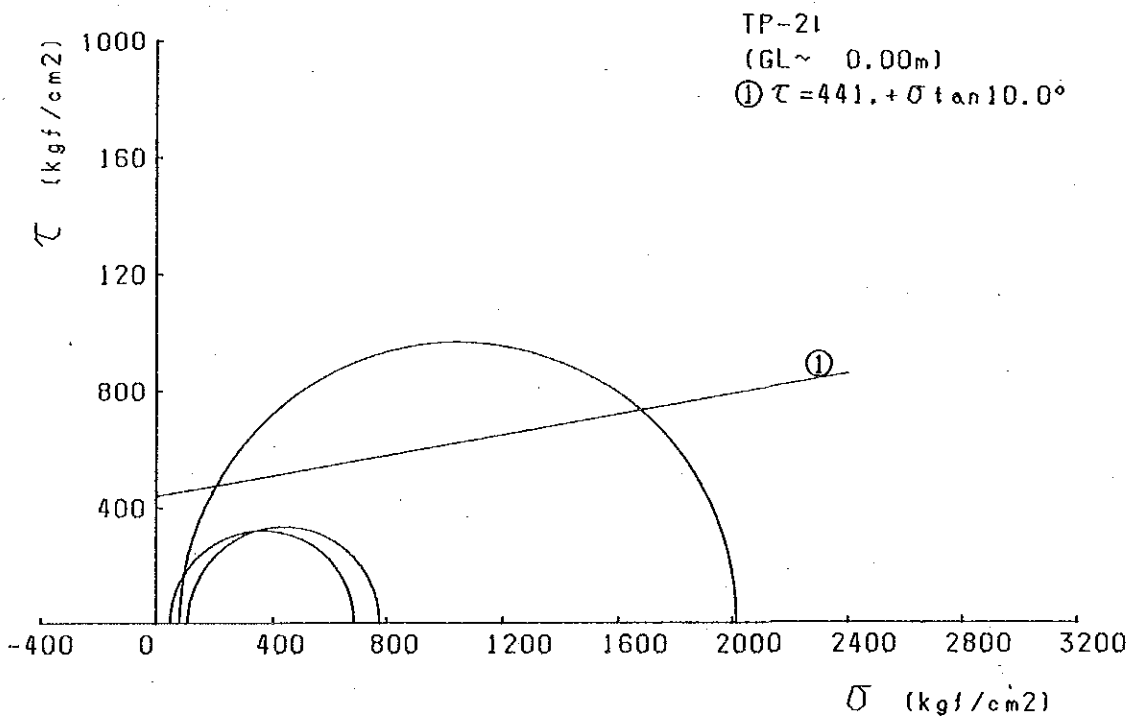
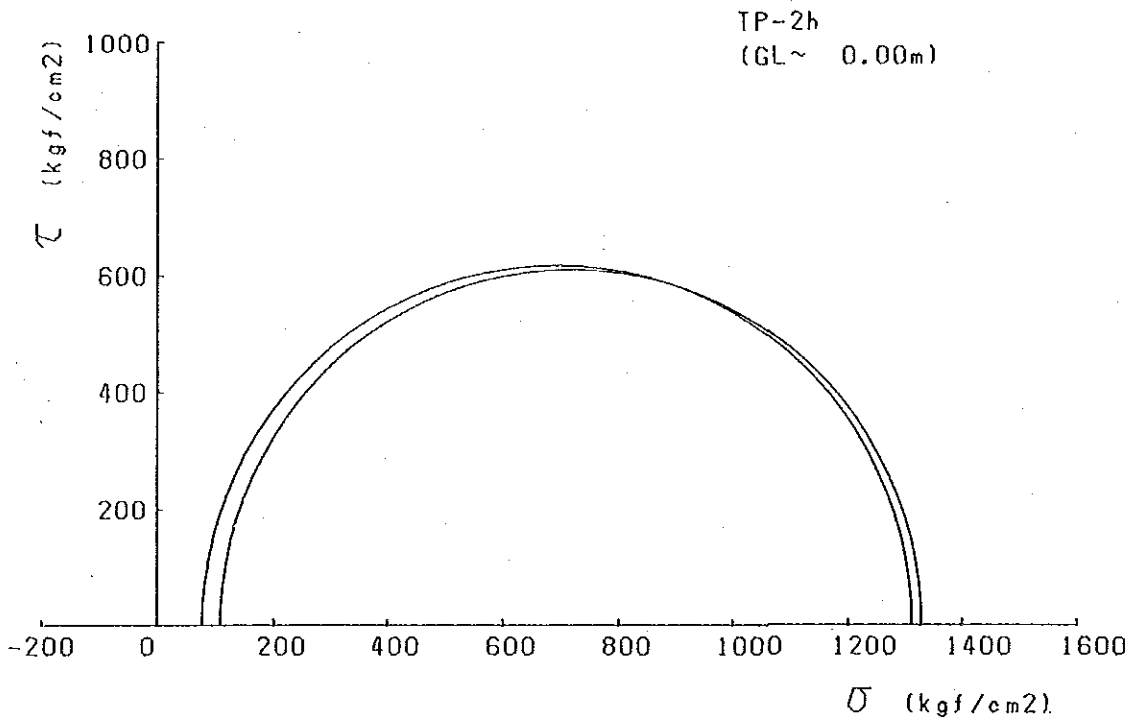


FIG. I.6-4

TRIAXIAL COMPRESSION TEST DATA (4 of 4)



1950

1951

1952

1953

1954

1955

1956

1957

1958

1959

1960

1961

1962

1963

1964

1965

1966

1967

1968

1969

1970

1971

1972

1950

1951

1952

1953





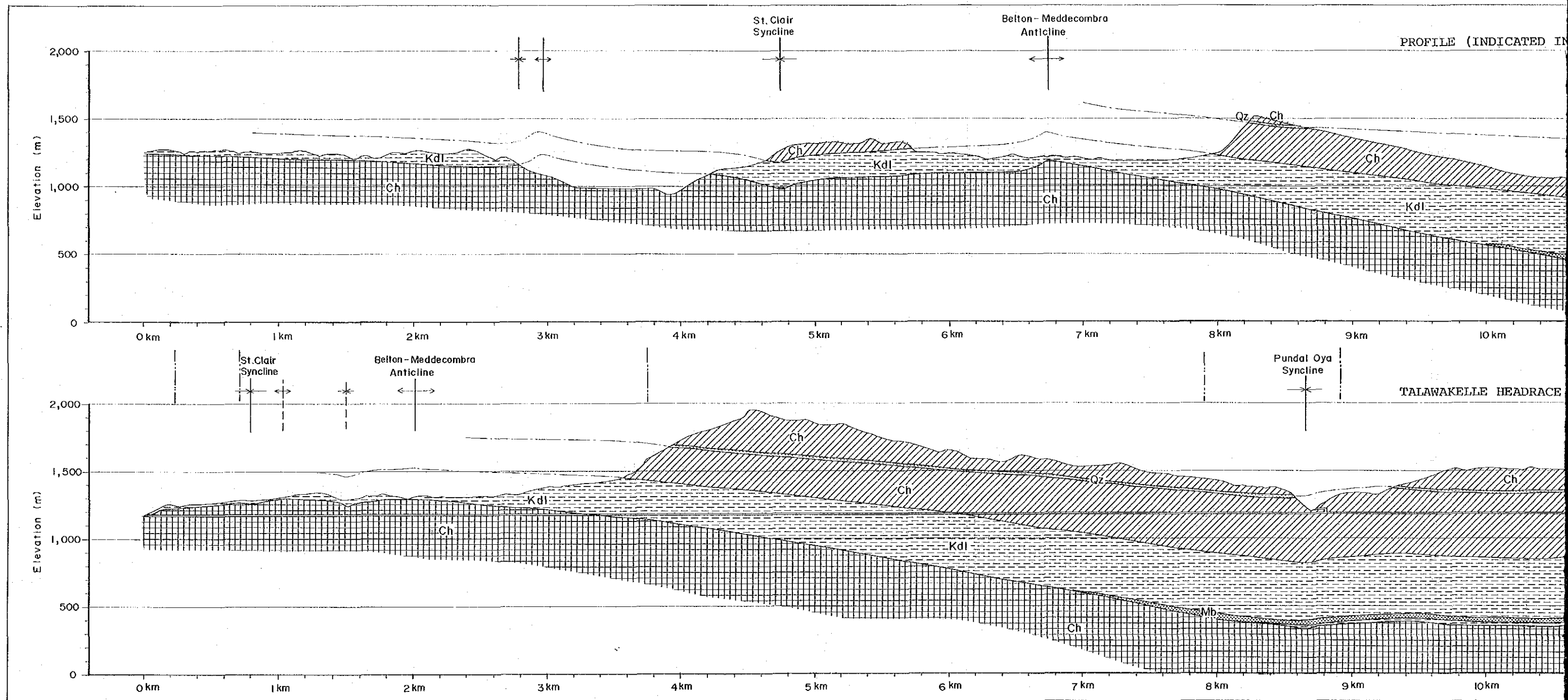
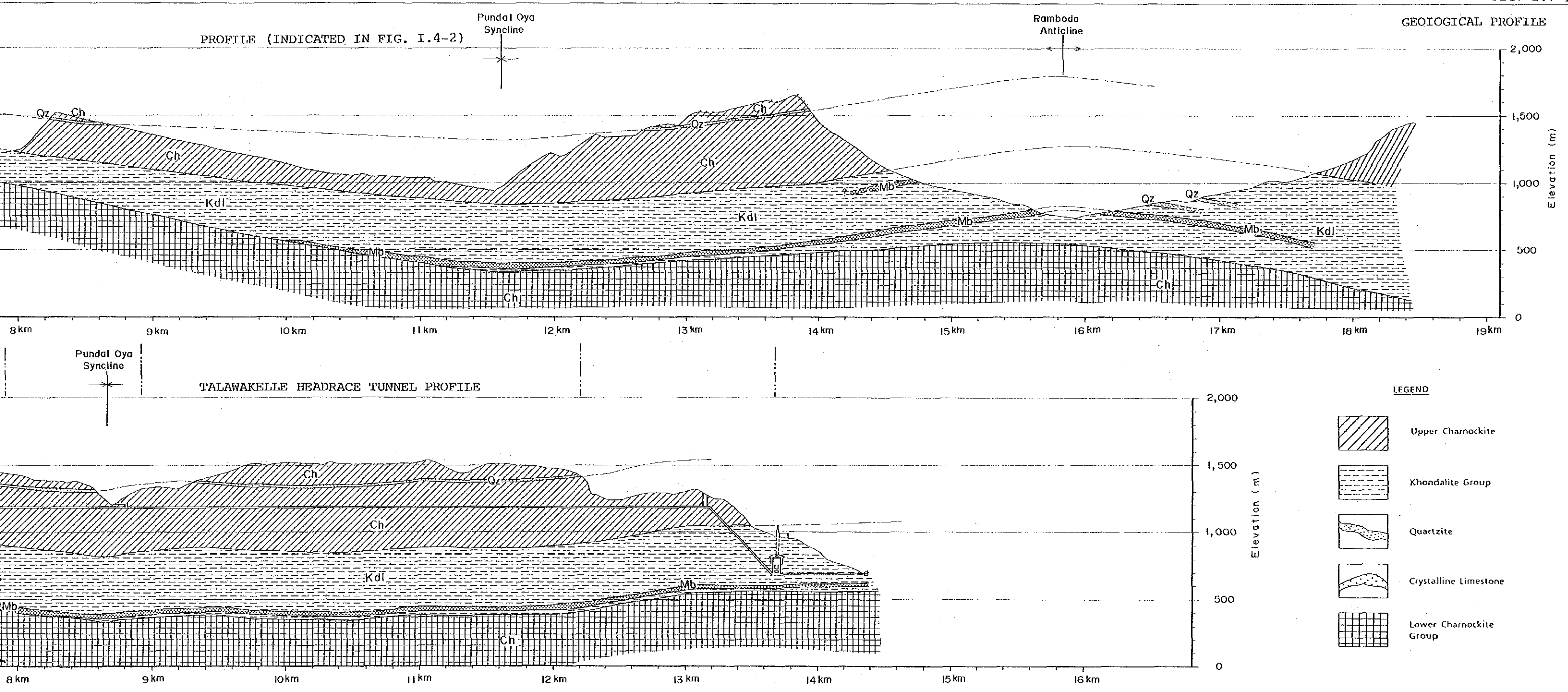


FIG. I.7-1







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