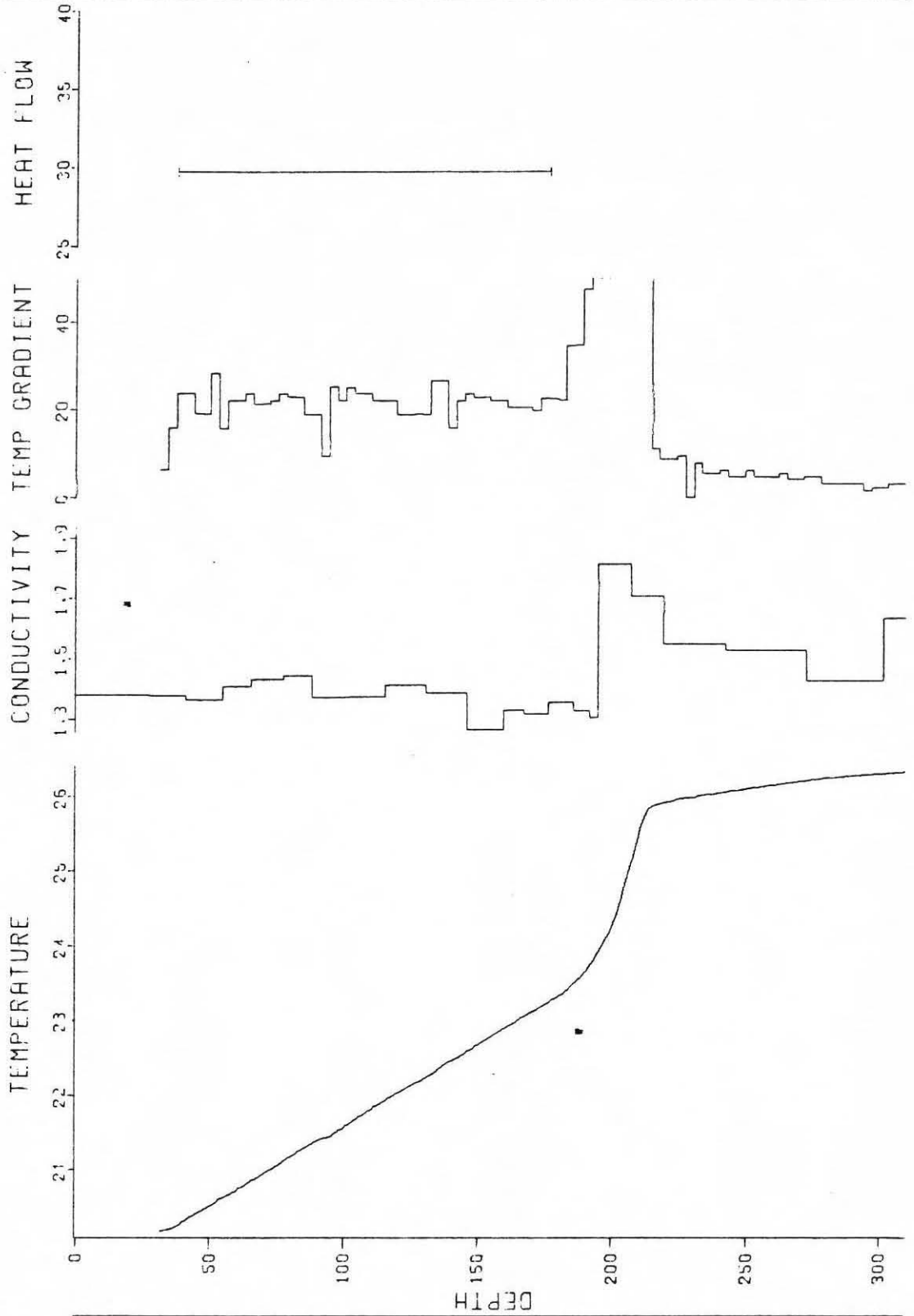
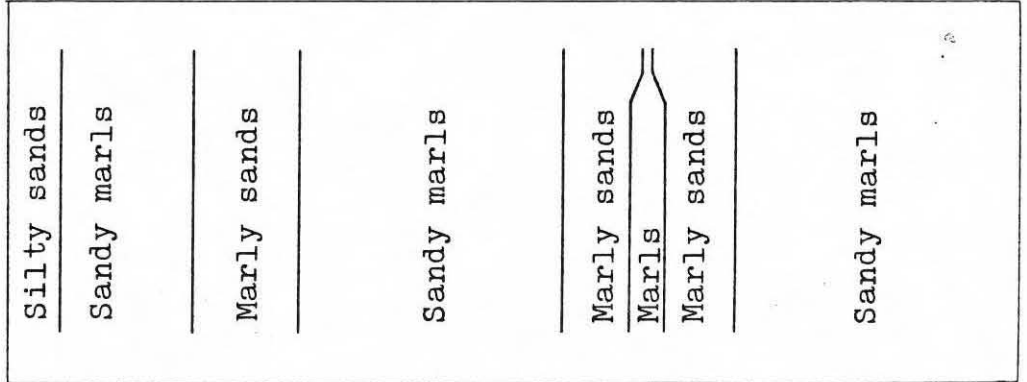


#### A4.2 Plots of Heat Flow Data and Results

The data and results from each Cyprus heat flow station are given in the plots below with brief geological information from the boreholes. Temperatures are given in degC with depths in metres. The conductivity data, in  $W m^{-1} ^\circ C^{-1}$ , are given as a step function against depth indicating the depth ranges for which the values were used. Temperature gradients (TEMP GRADIENT), in  $degC km^{-1}$ , calculated from adjacent temperature data are plotted as a step function at the corresponding depths. These values have been smoothed to remove oscillations derived from the digital nature of the data, and the curves are discontinuous where off-scale values were calculated. Heat flow values, in  $mW m^{-2}$ , calculated by the Bullard reduction method are plotted over the depth range from which data were taken for the fits. Assuming that the data in these ranges follow a normal distribution, error bars are given on the ends of the heat flow plots indicating  $\pm 3.09$  times the standard errors of the least squares fits, and the probability that an observation will fall outside this zone is 1 in 500 (Topping, 1962, p.61).

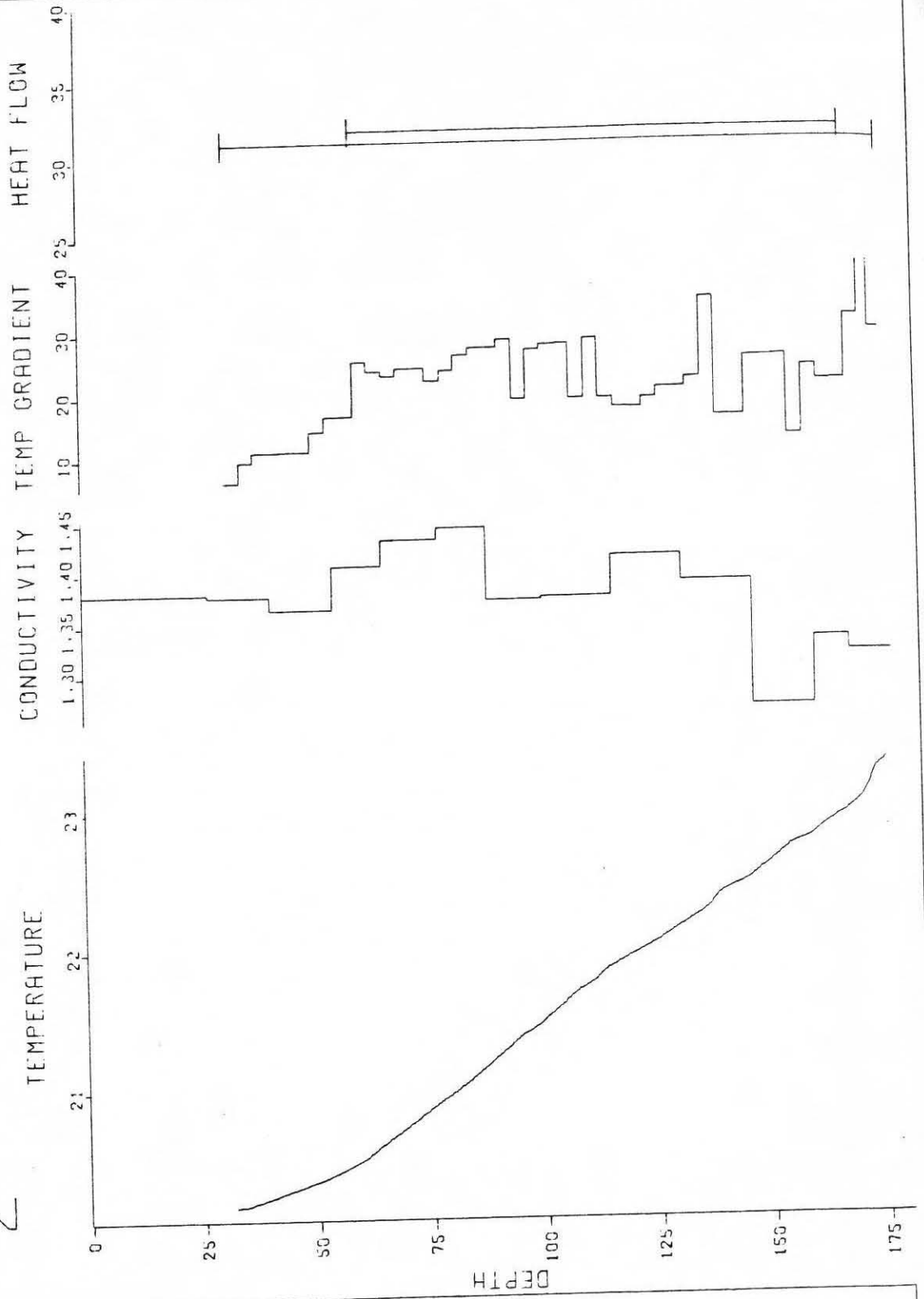
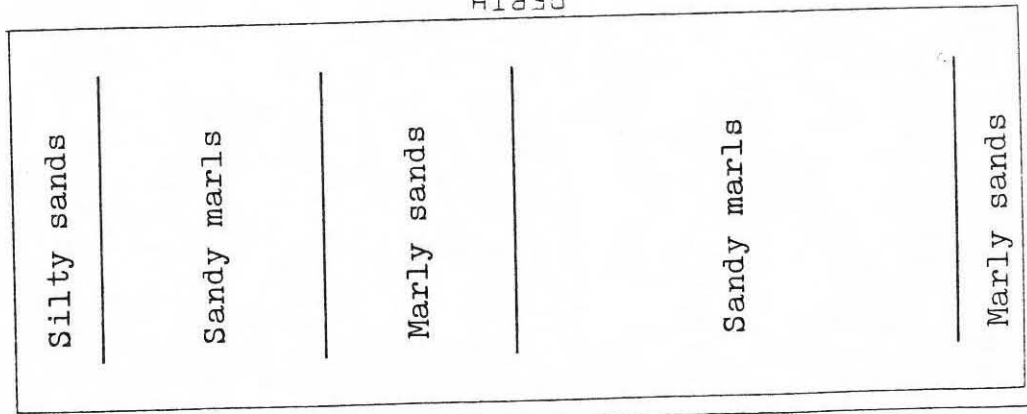
# CYPRUS 1

## LITHOLOGY



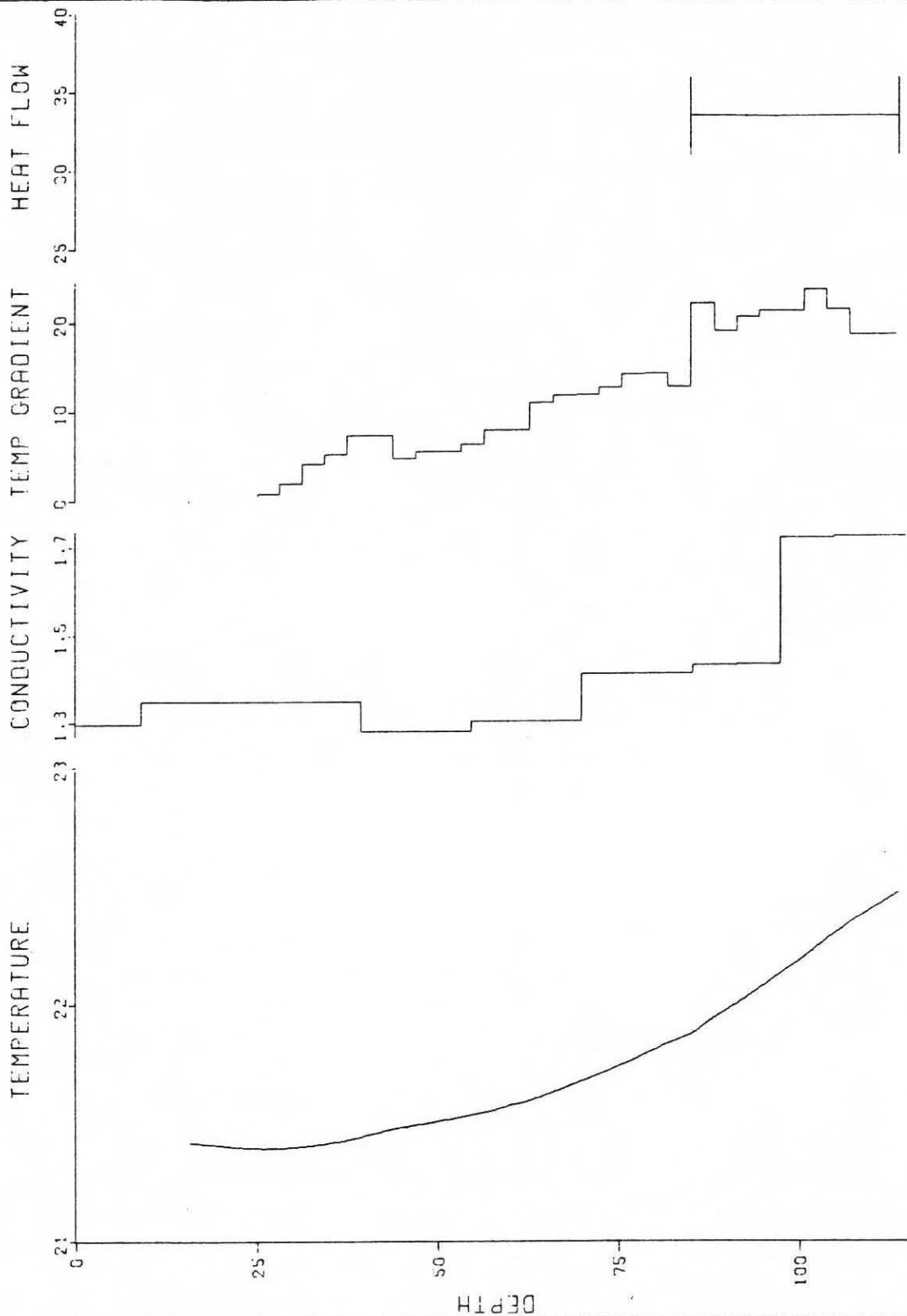
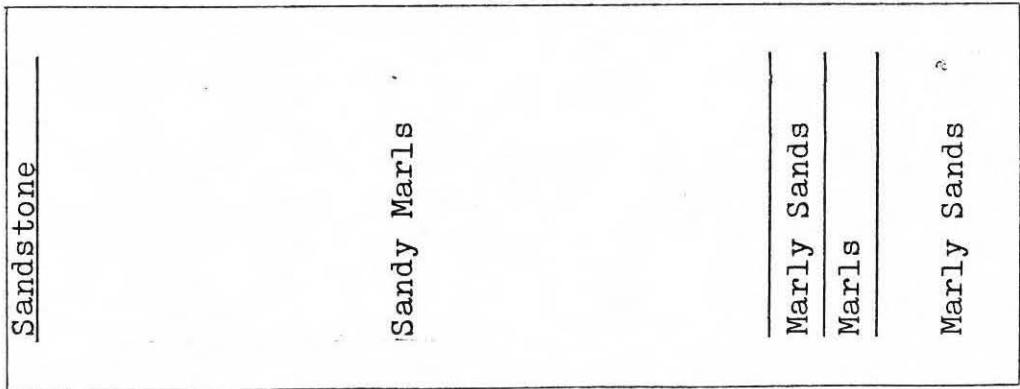
# CYPRUS 2

LITHOLOGY



# CYPRUS 3

## LITHOLOGY



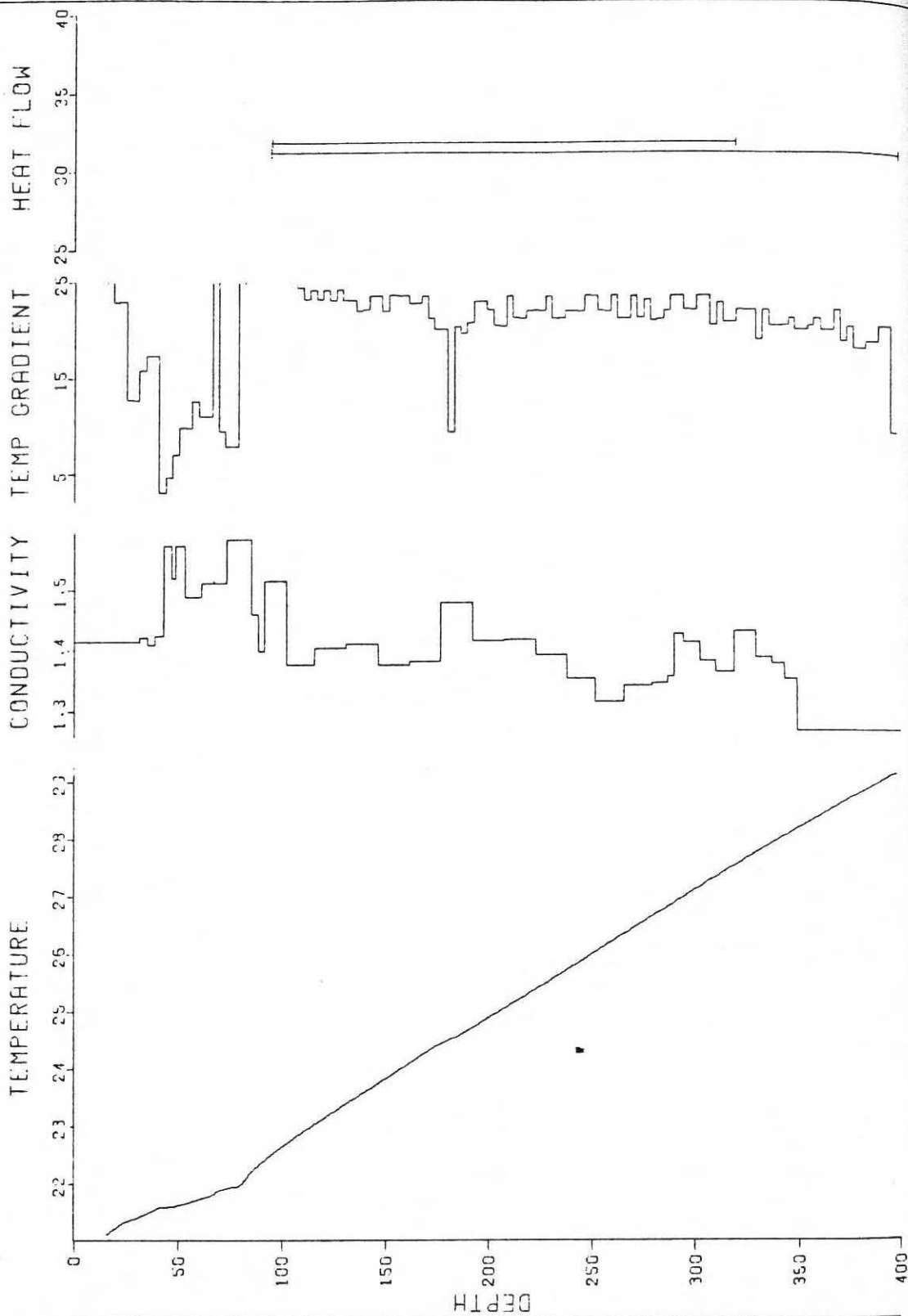
# CYPRUS 4

## LITHOLOGY

Sands,  
sandy marls,  
marly sands,  
marls and  
quartzitic  
sands

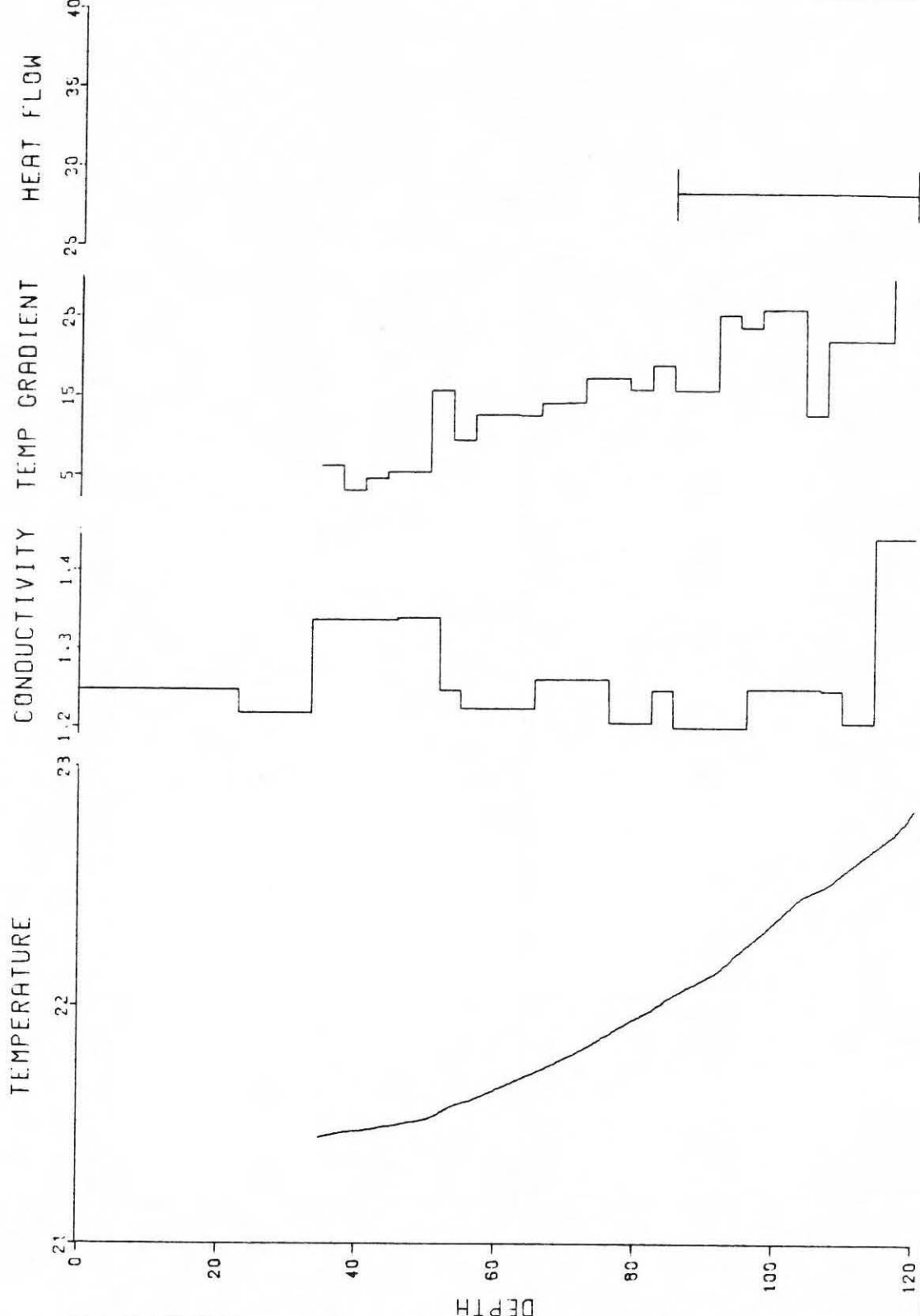
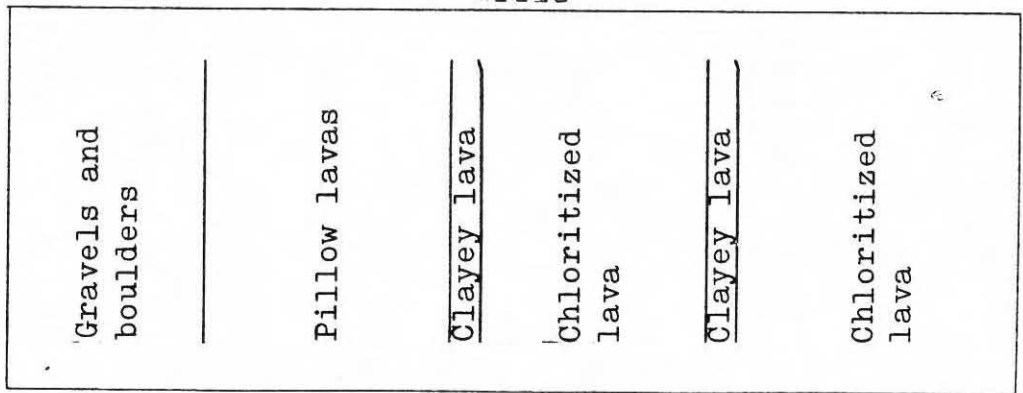
---

Marls



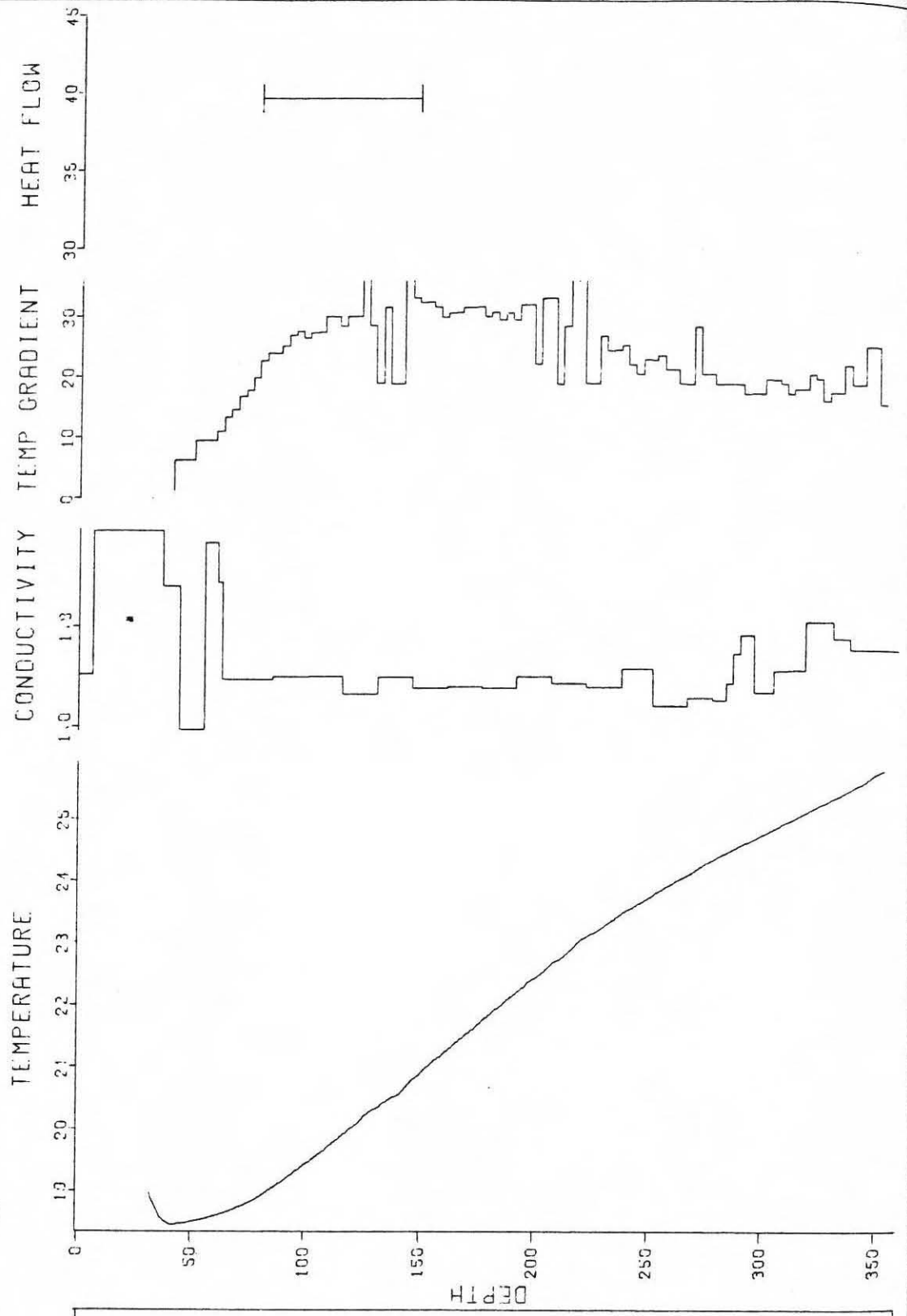
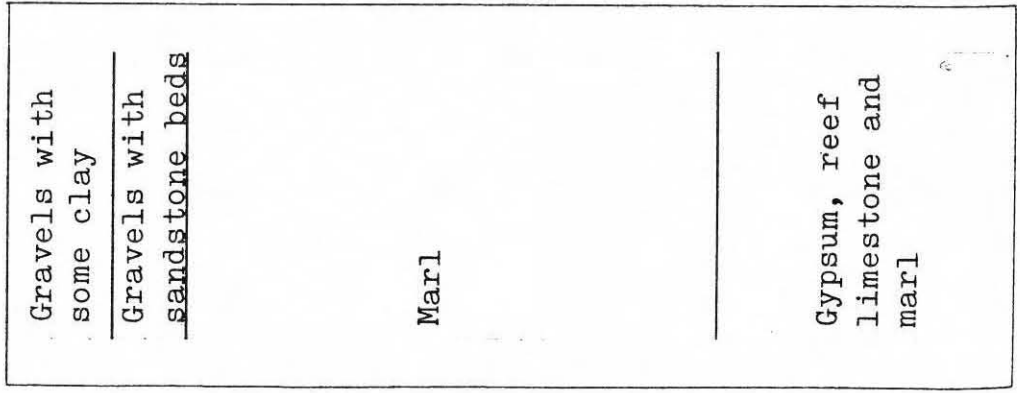
# CYPRUS 5

LITHOLOGY



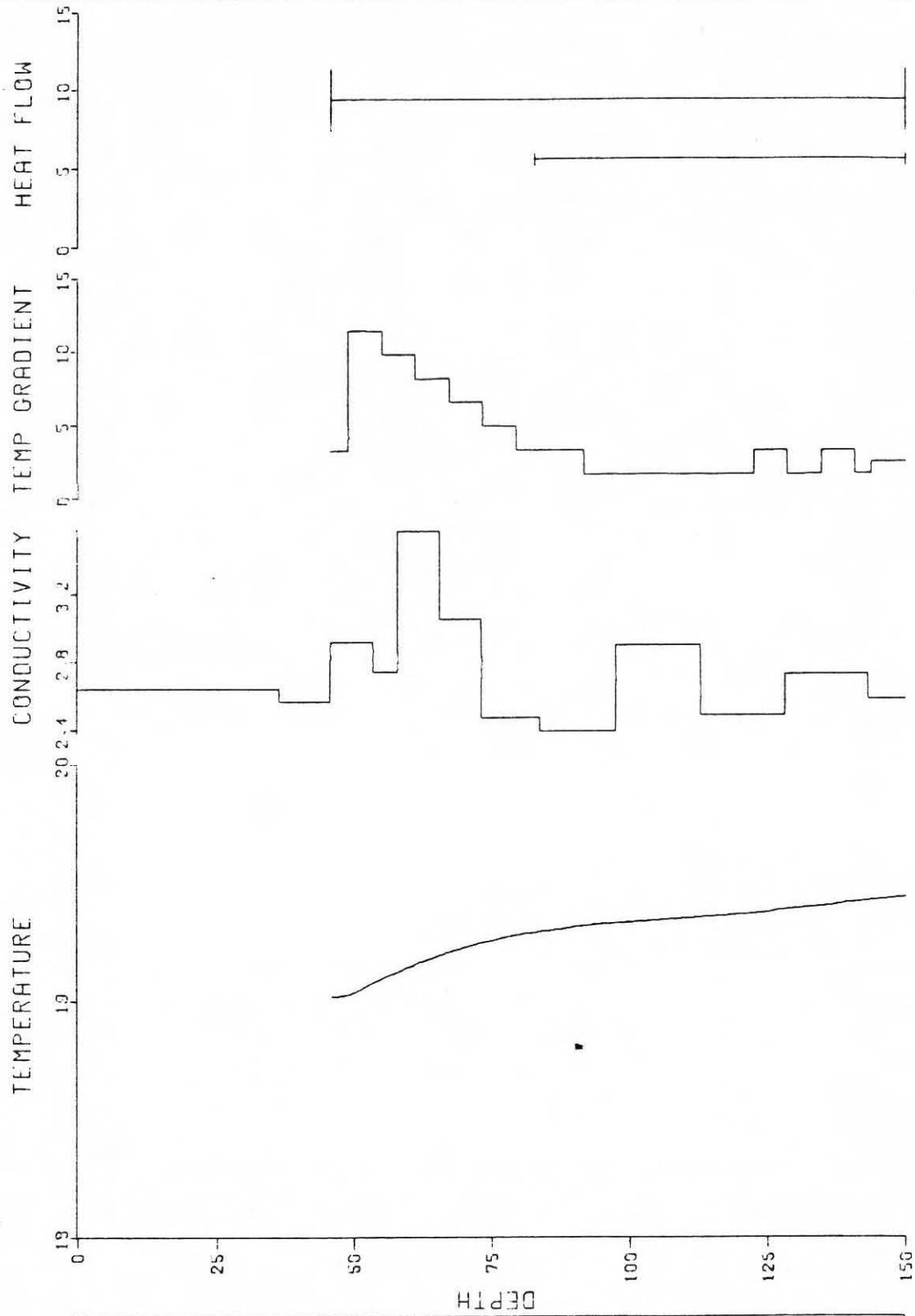
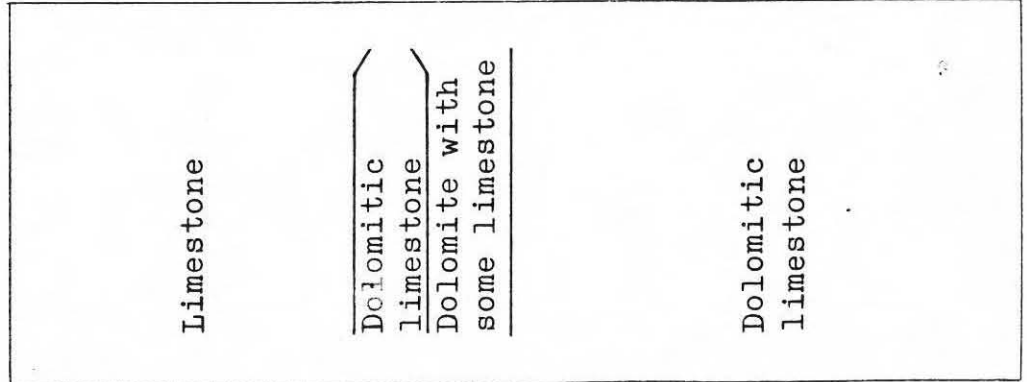
# CYPRUS 6

## LITHOLOGY



# CYPRUS 7

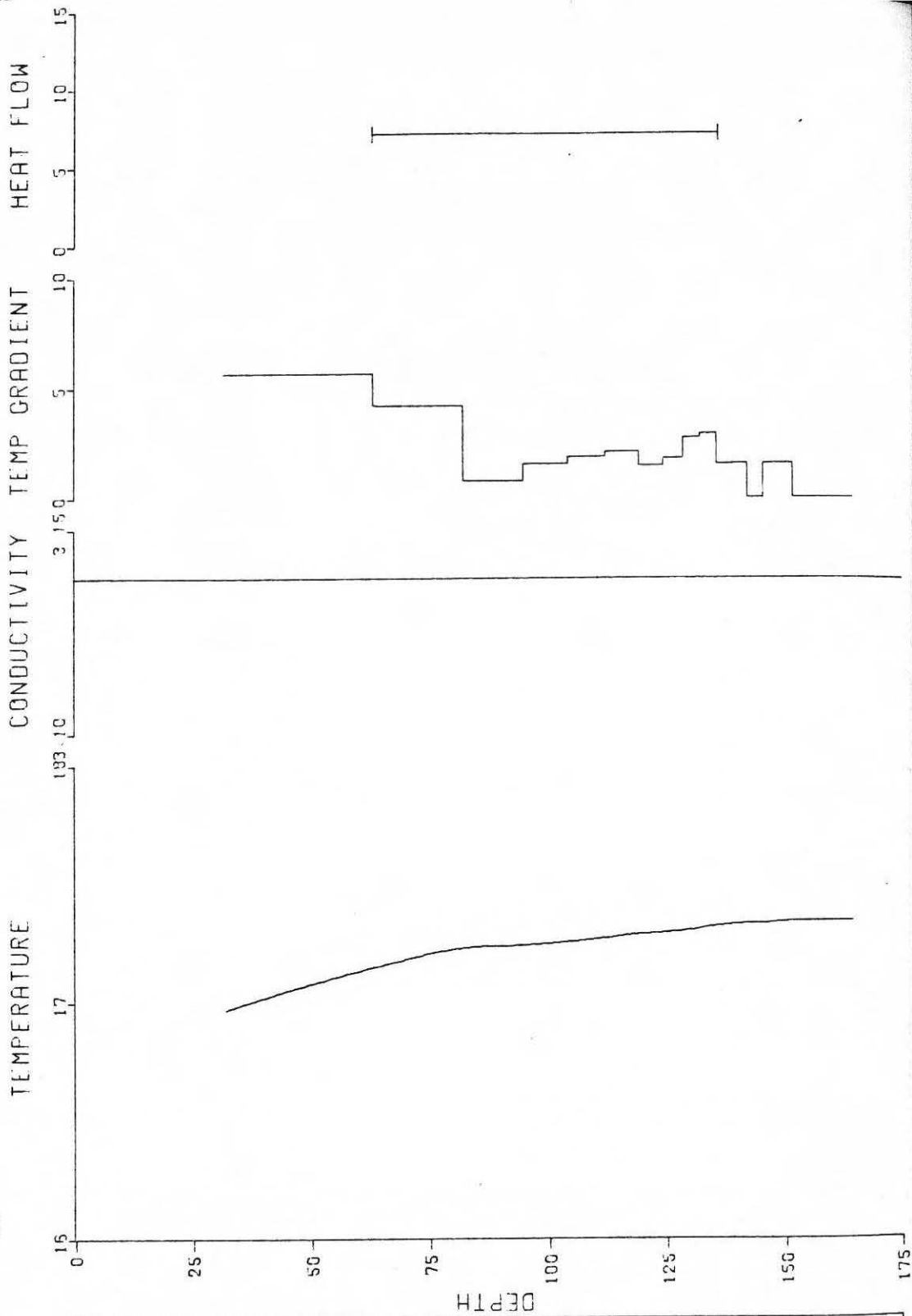
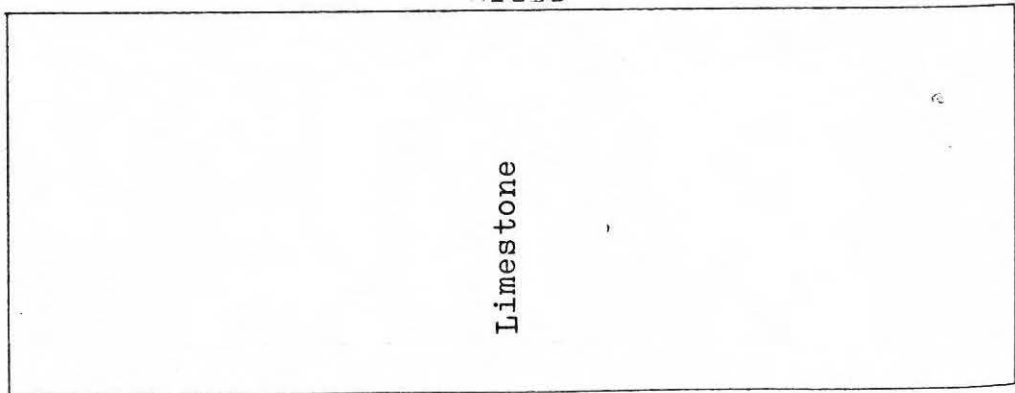
LITHOLOGY





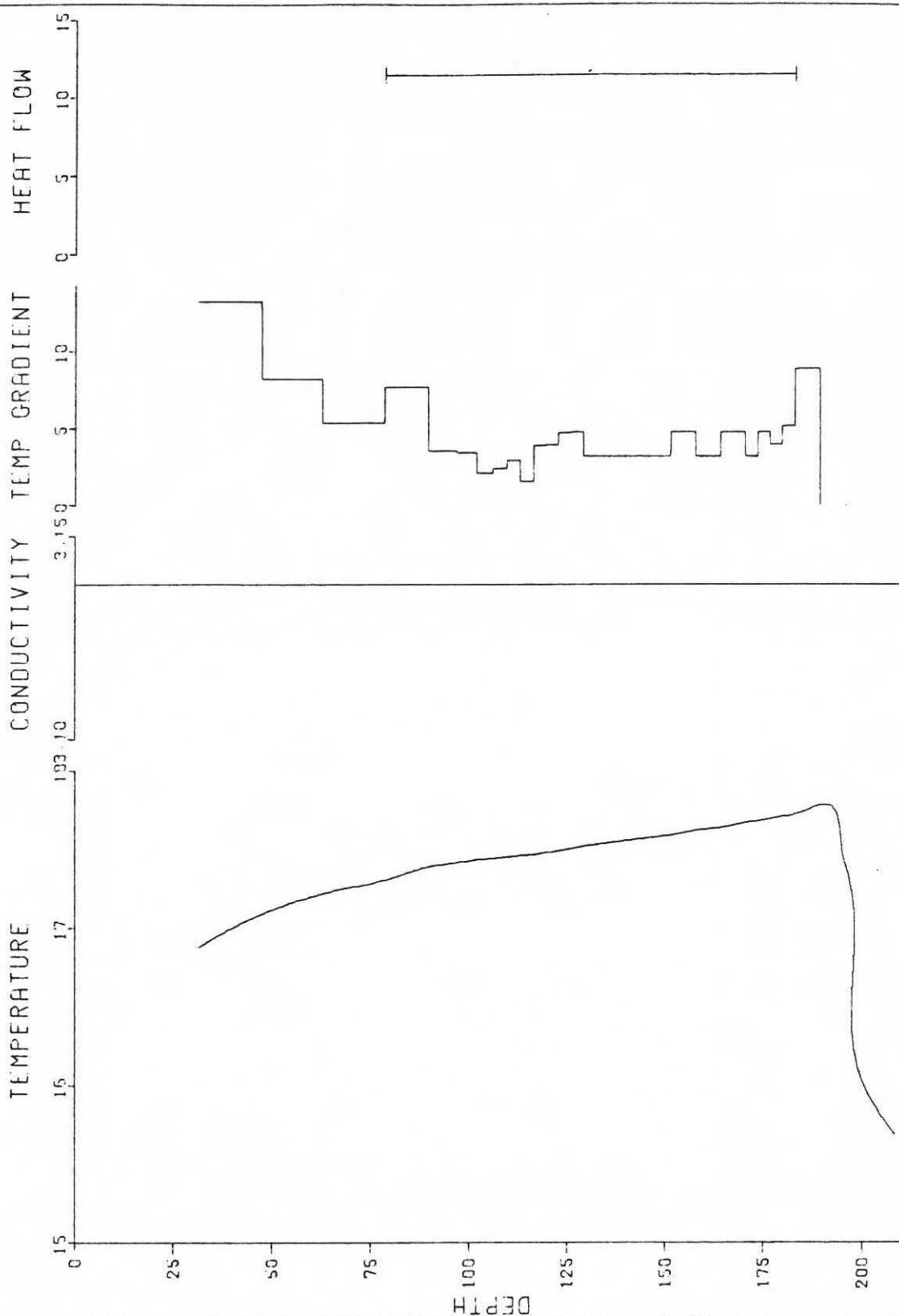
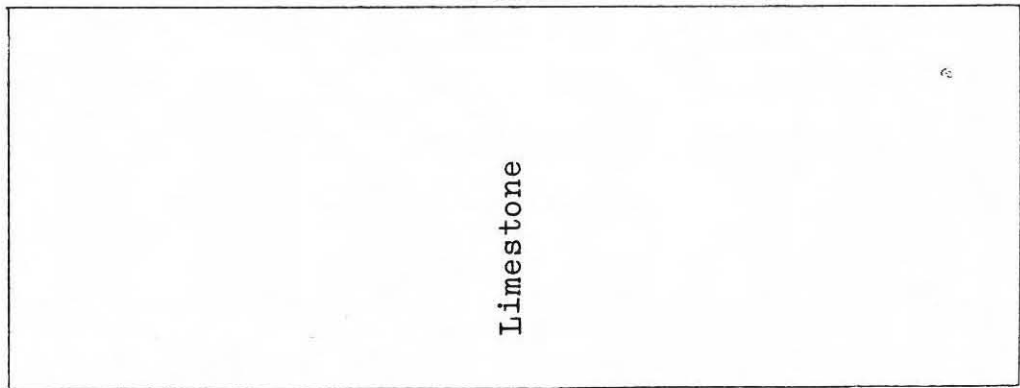
# CYPRUS 8

LITHOLOGY



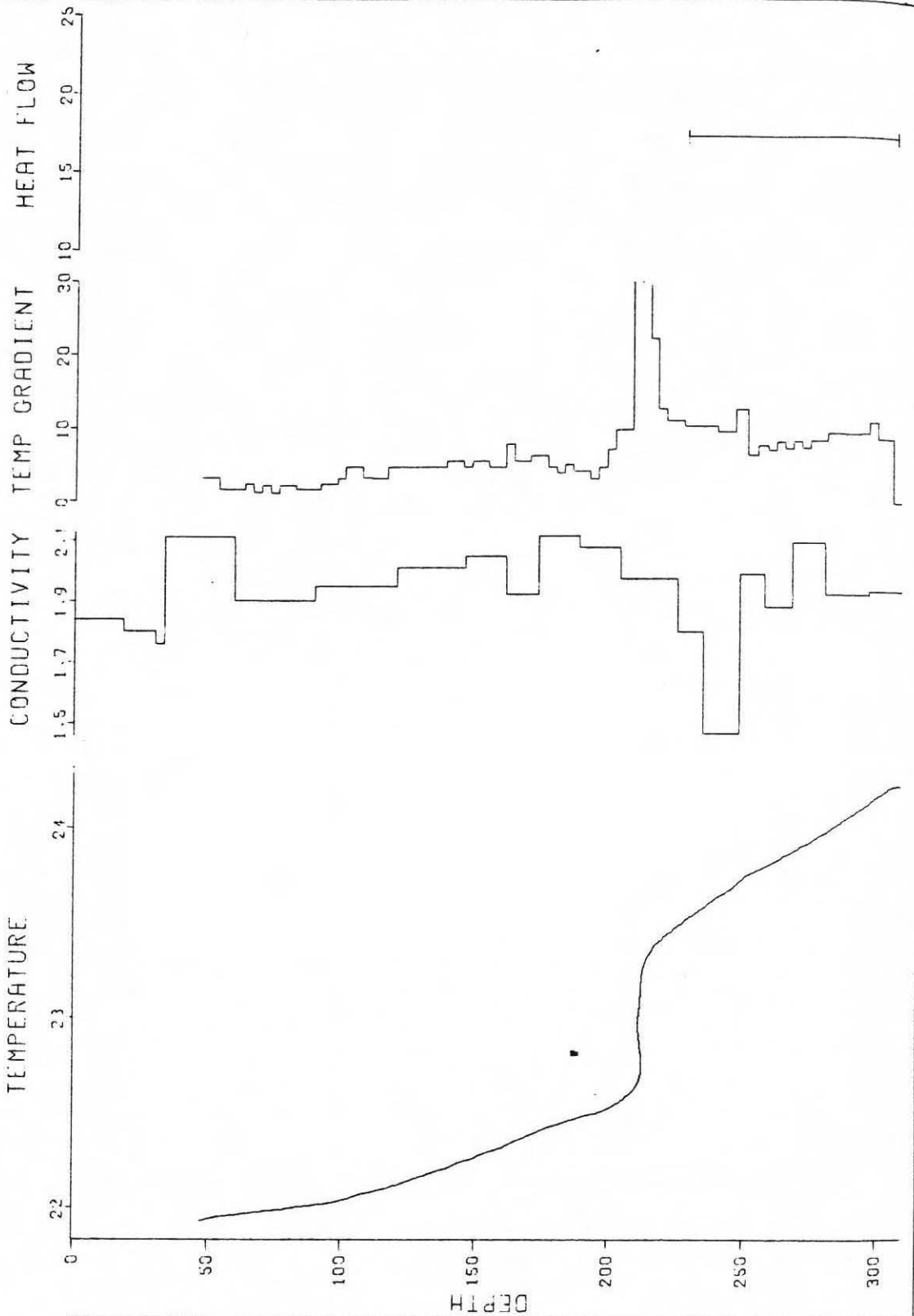
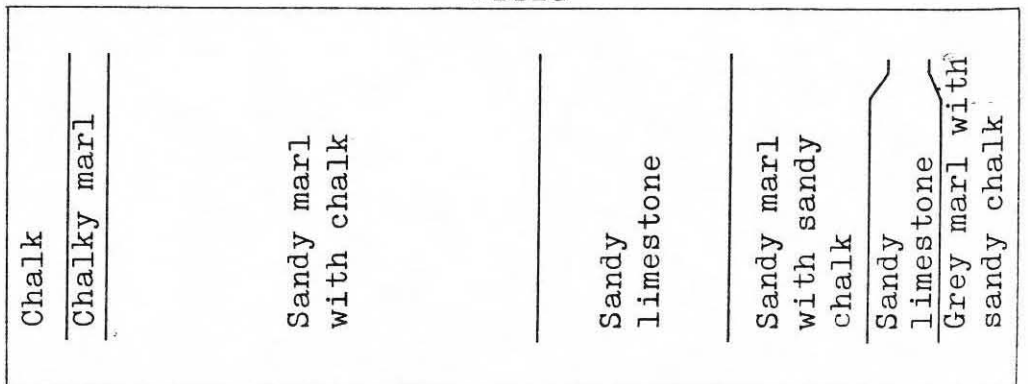
# CYPRUS 9

LITHOLOGY



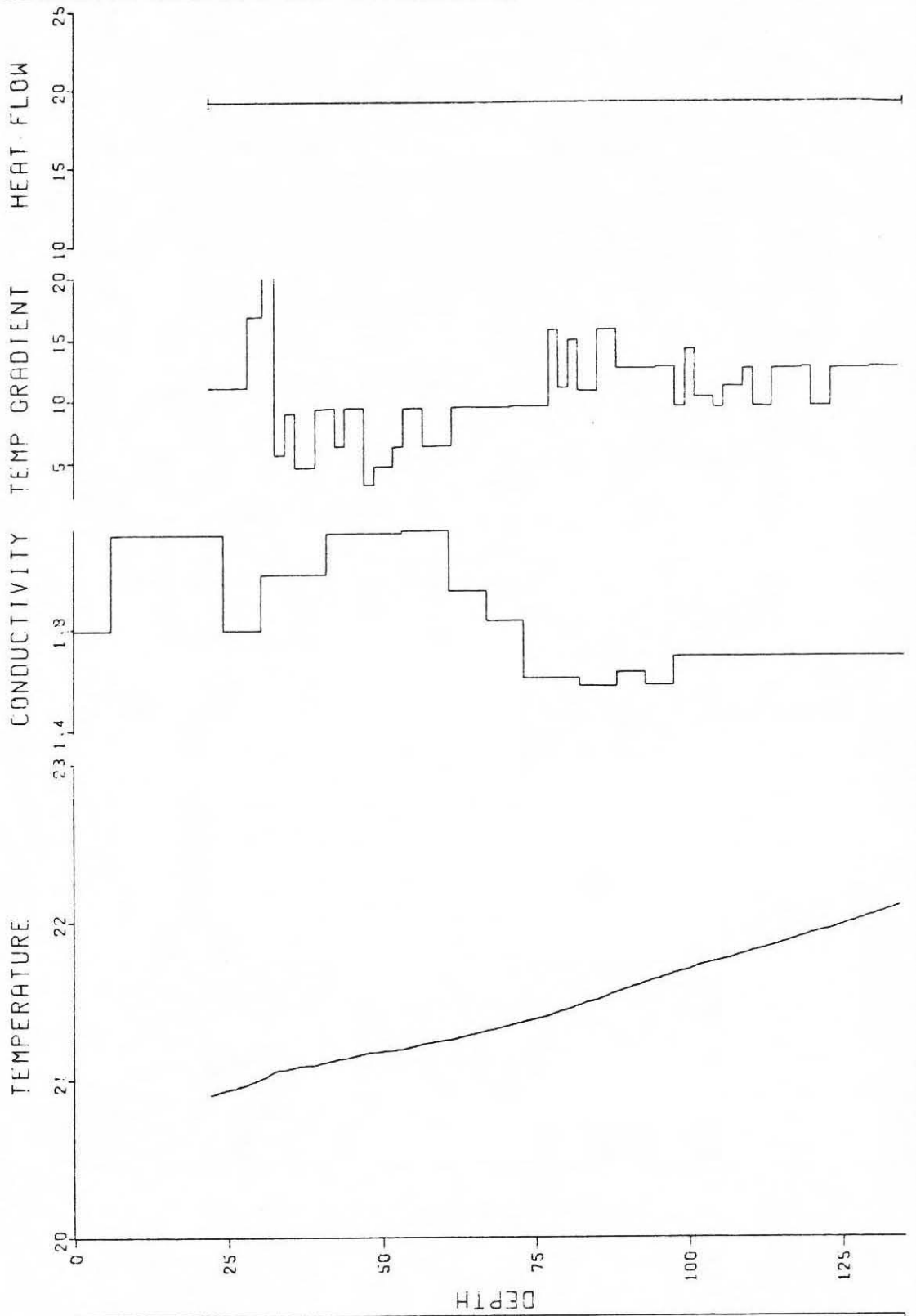
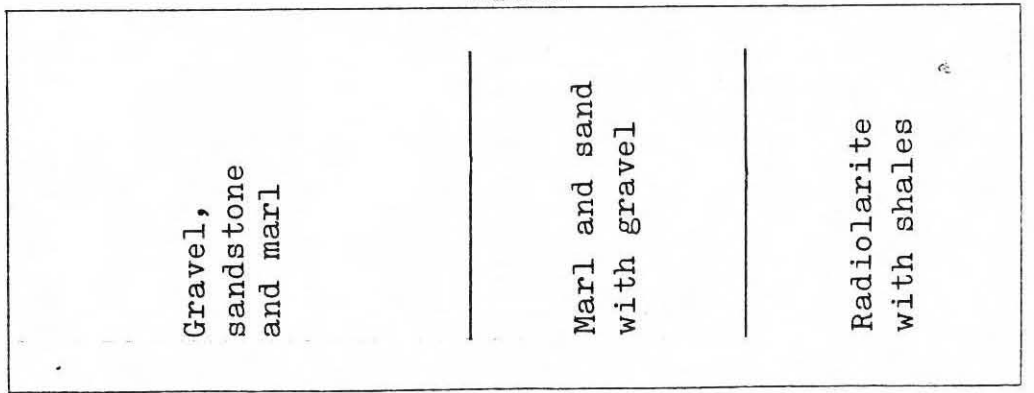
# CYPRUS 10

## LITHOLOGY



# CYPRUS 11

LITHOLOGY



# CYPRUS 12

## LITHOLOGY

Chalk with  
sand and marl

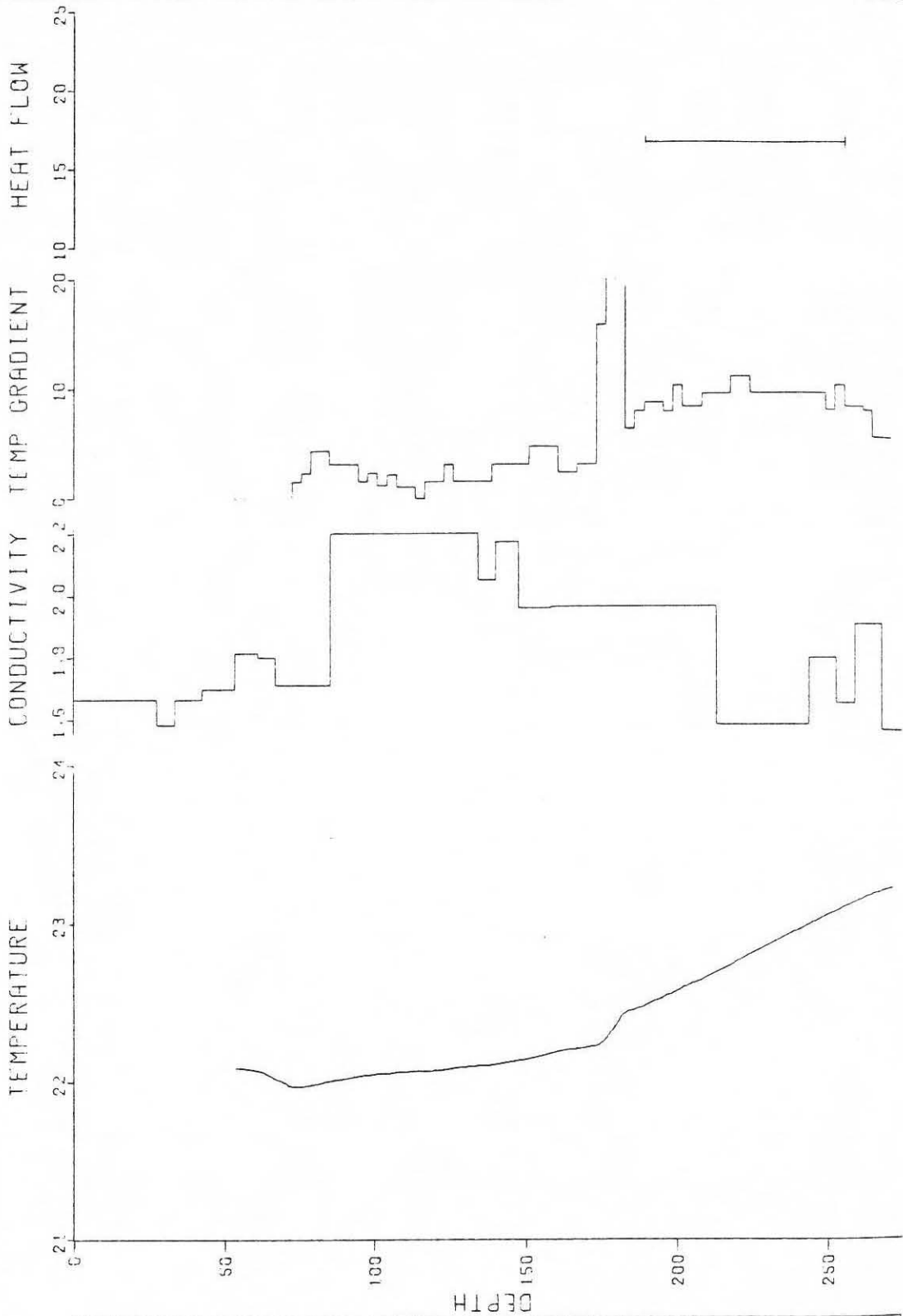
Sandstone and  
limestone with  
gravels

Sandstone with  
Marl and chalk

Sandstone and  
limestone

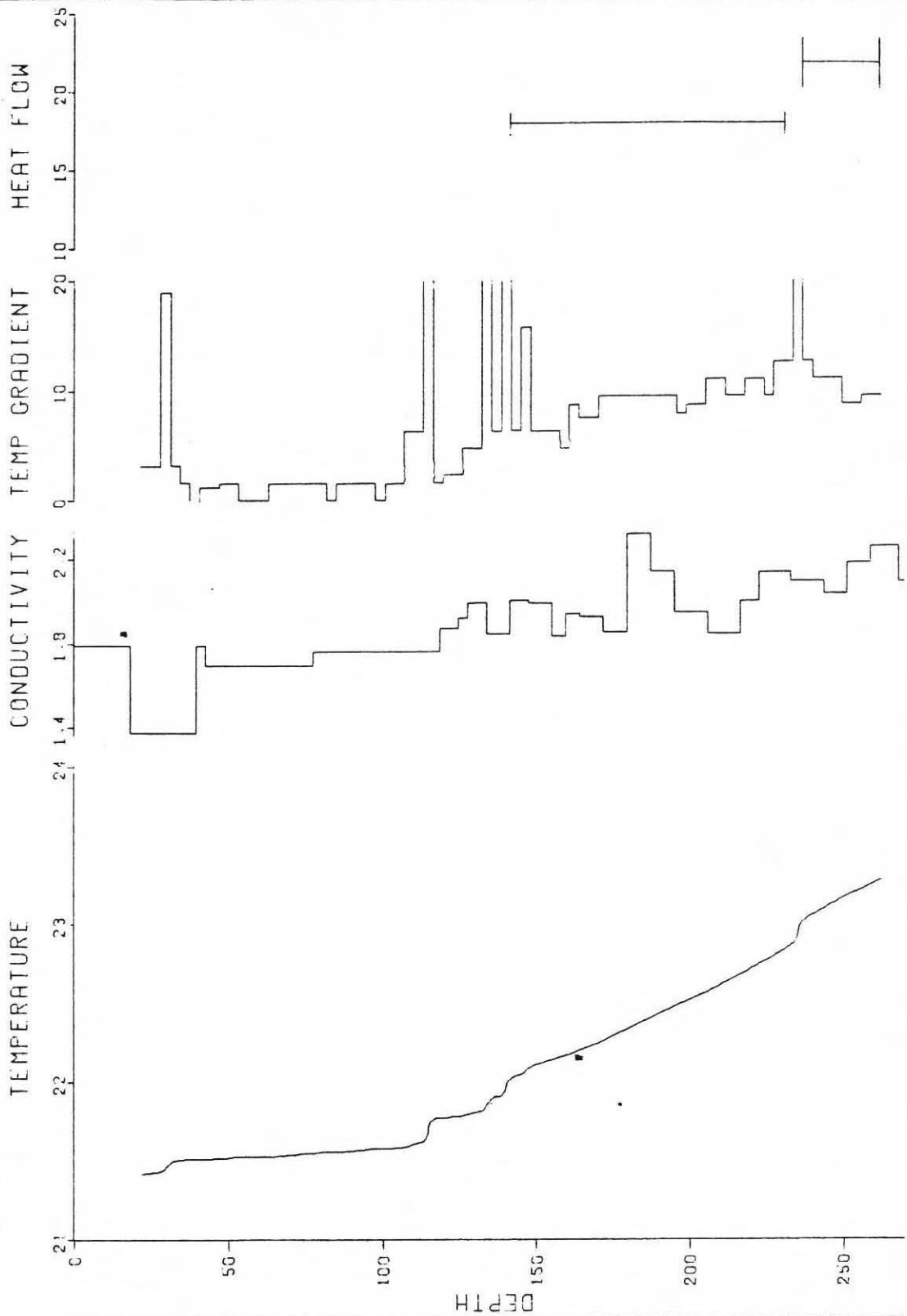
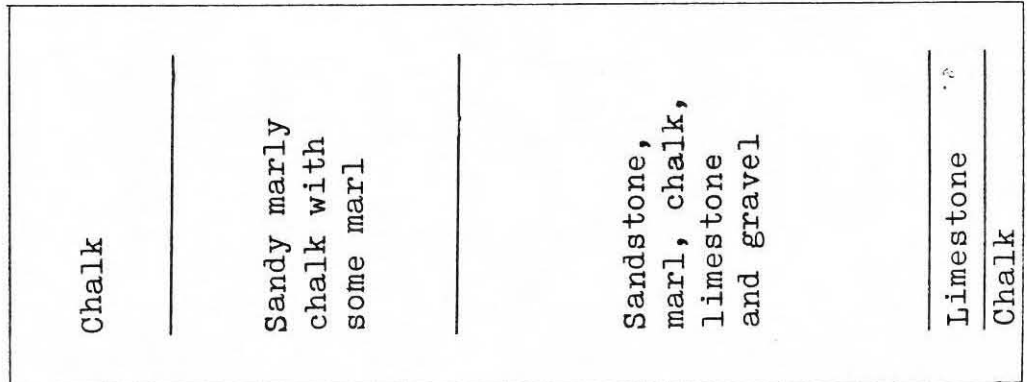
Sandstone with  
some marl

Marl with sand



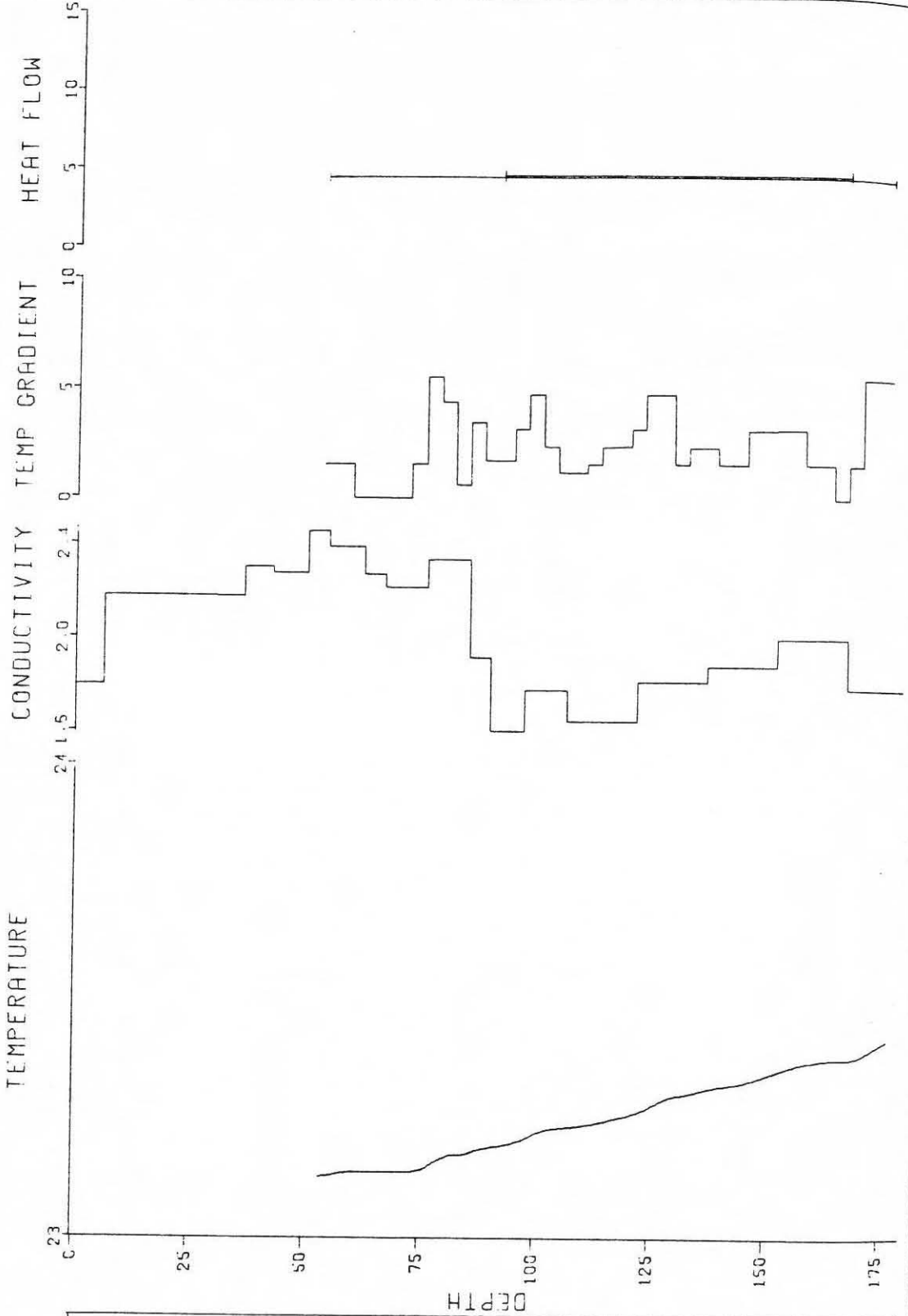
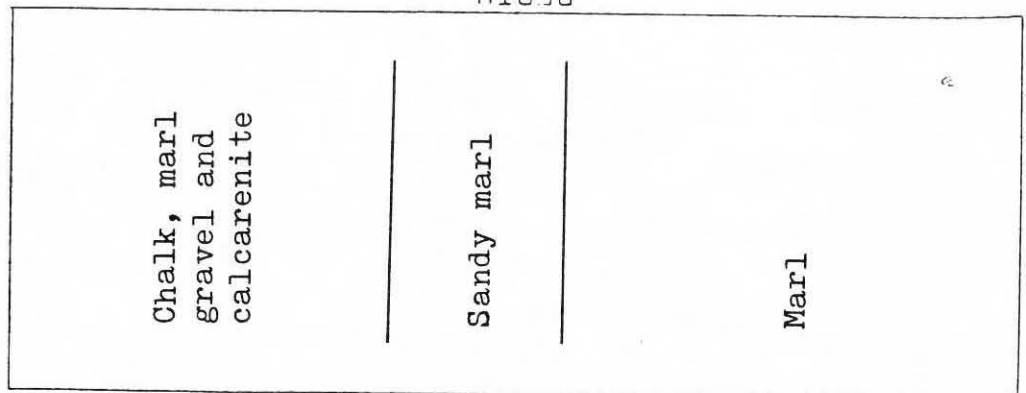
# CYPRUS 13

## LITHOLOGY



# CYPRUS 14

LITHOLOGY



# CYPRUS 15

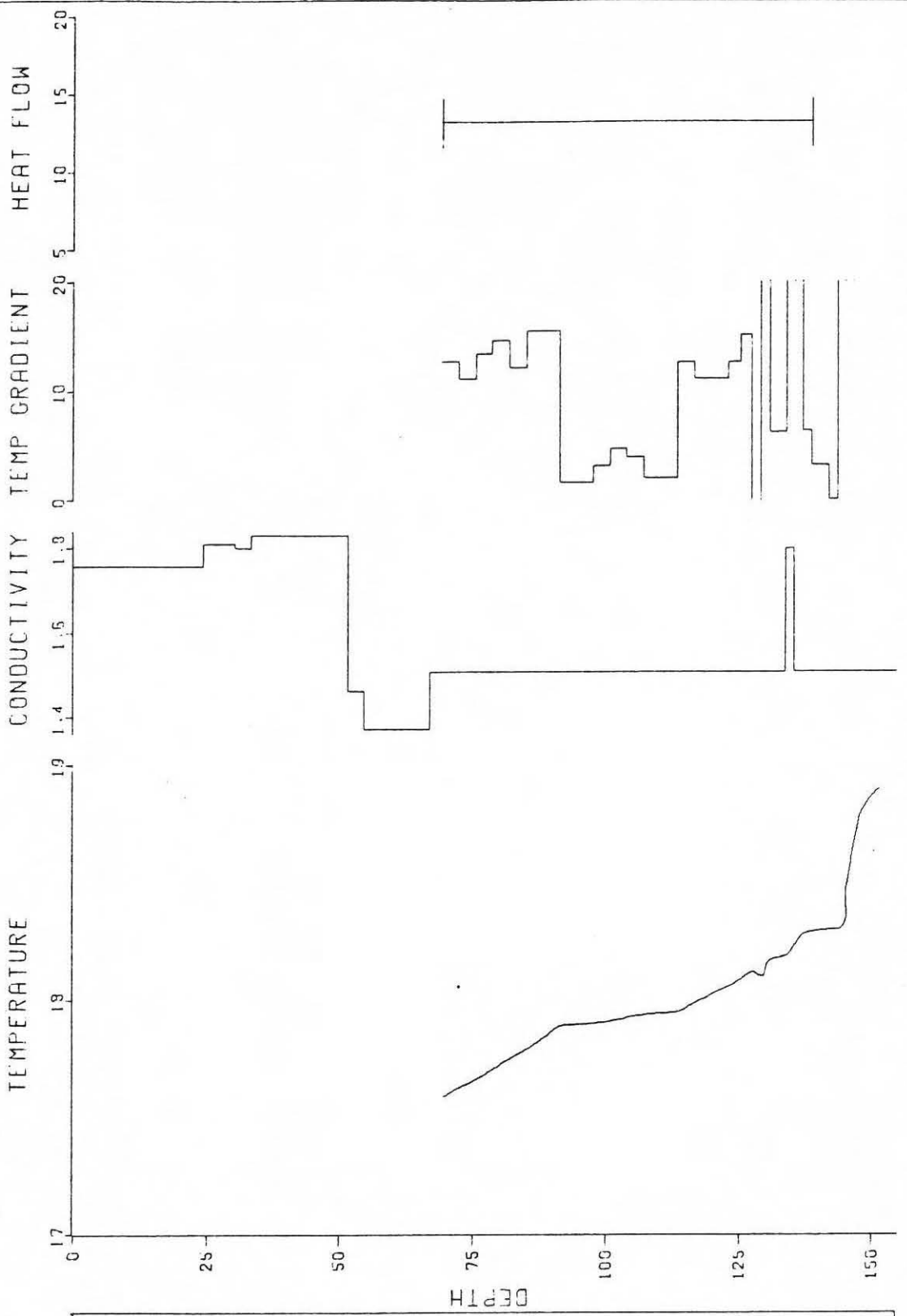
LITHOLOGY

Marl

\_\_\_\_\_

Gypsum

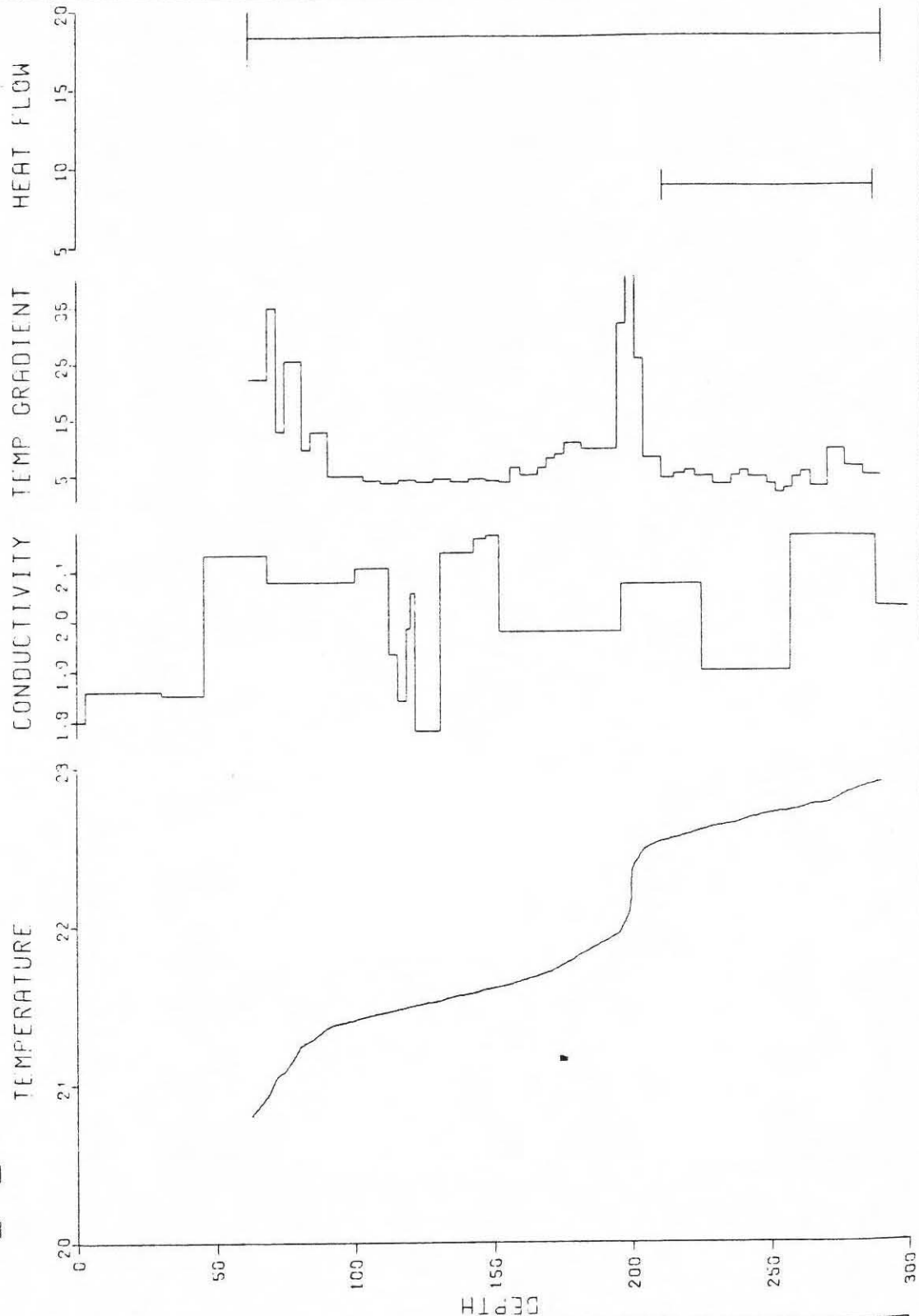
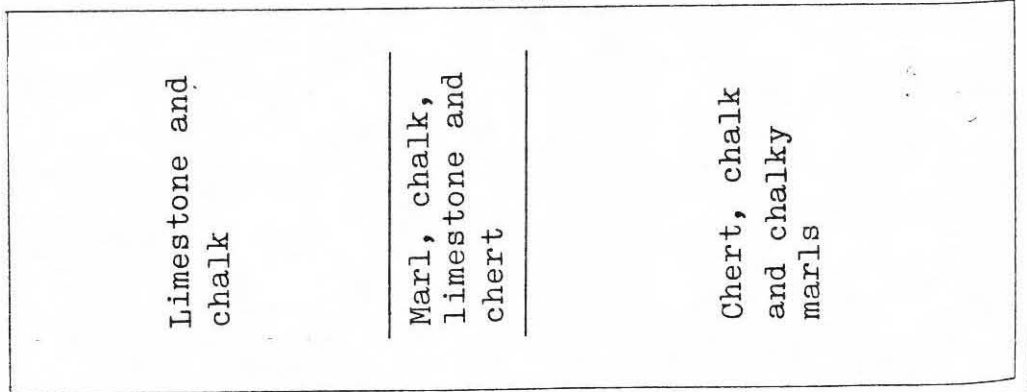
2





# CYPRUS 16

LITHOLOGY



# CYPRUS 17

## LITHOLOGY

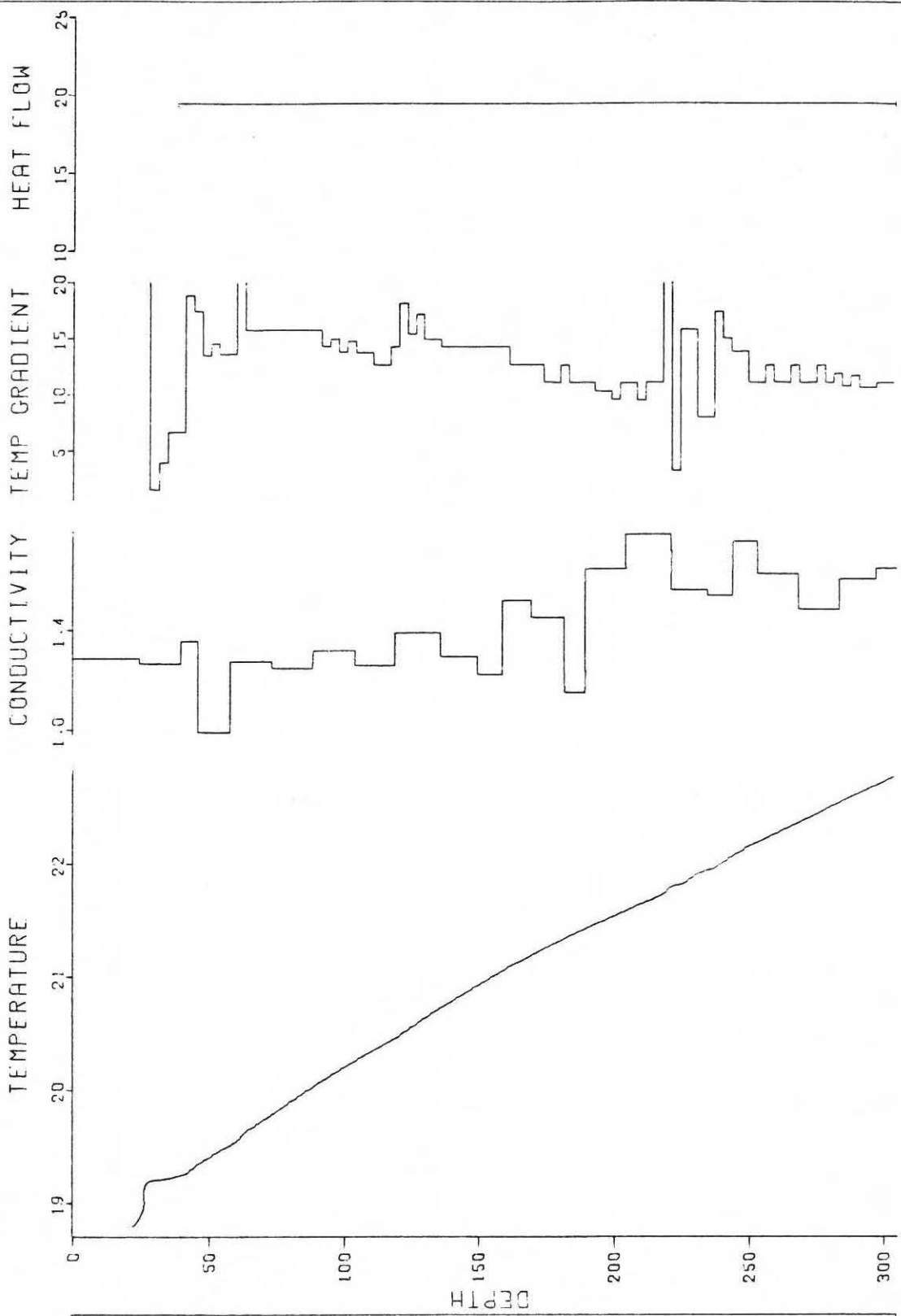
Gypsum with marl

Marl and bands of marly chalk

Marls and marly chalks

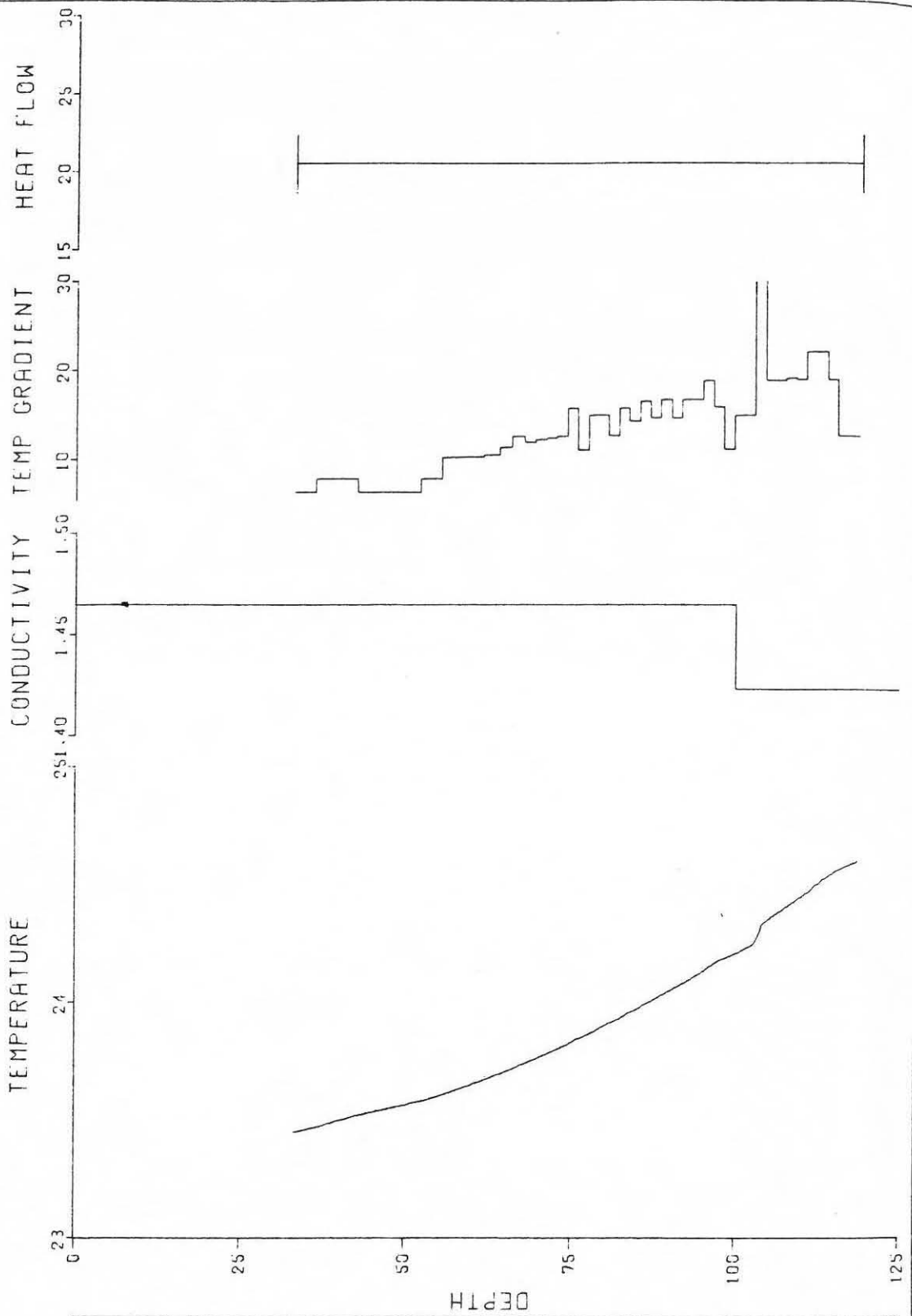
Chalks and marly chalks

Chalk and chert



# CYPRUS 18

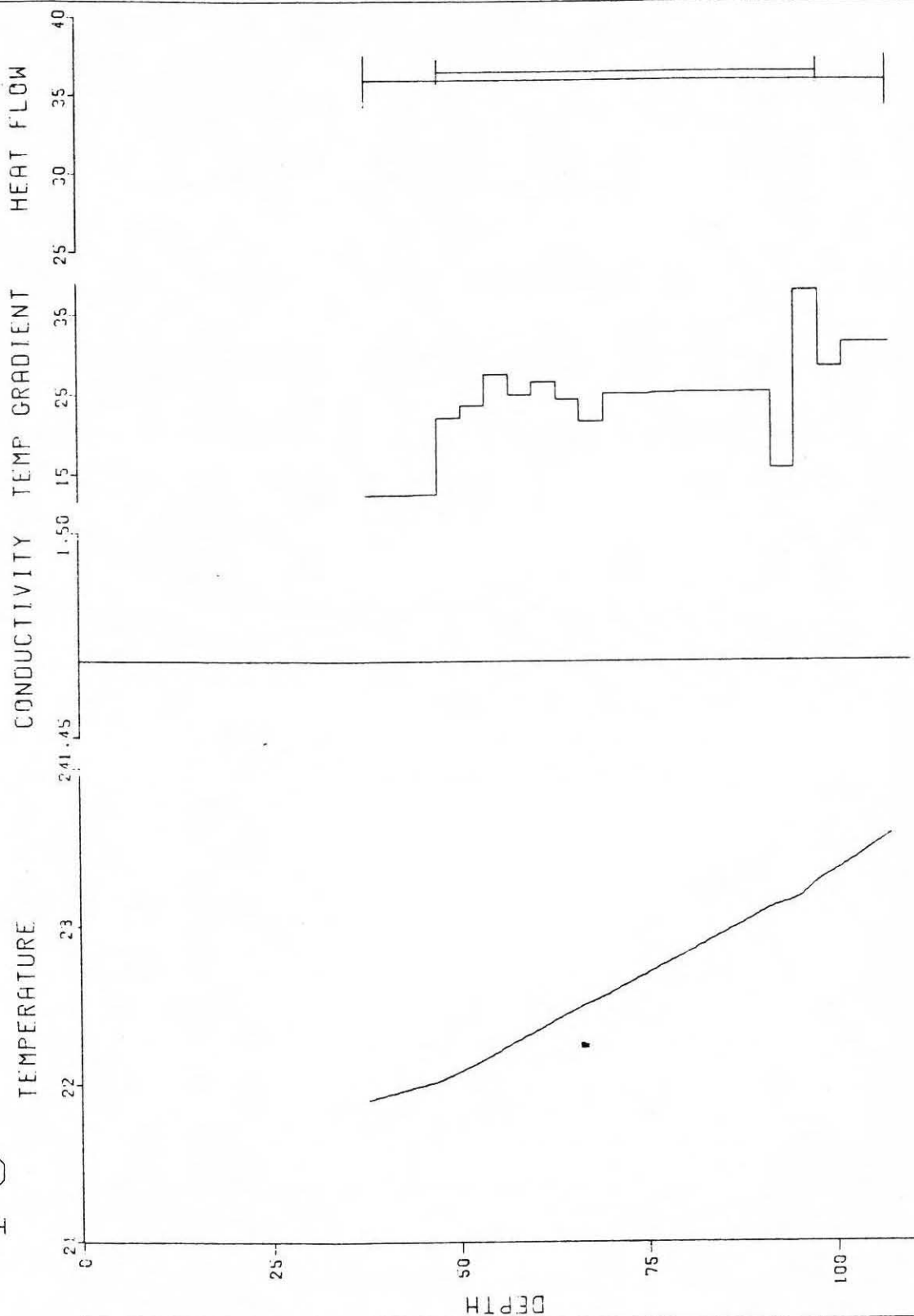
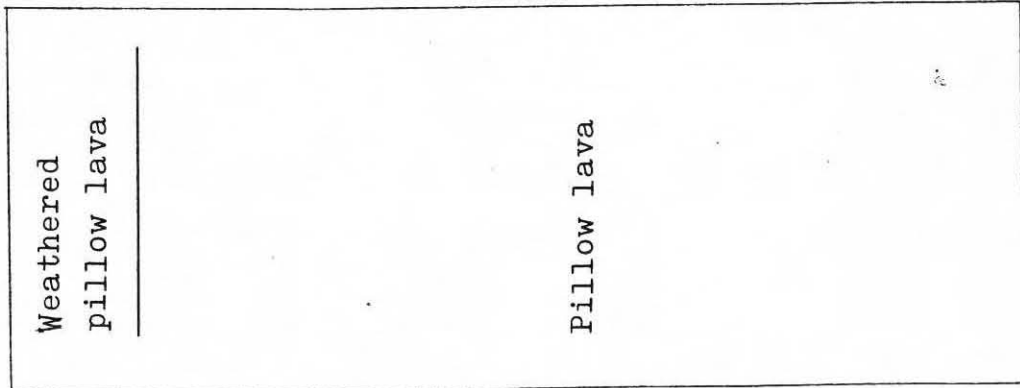
LITHOLOGY



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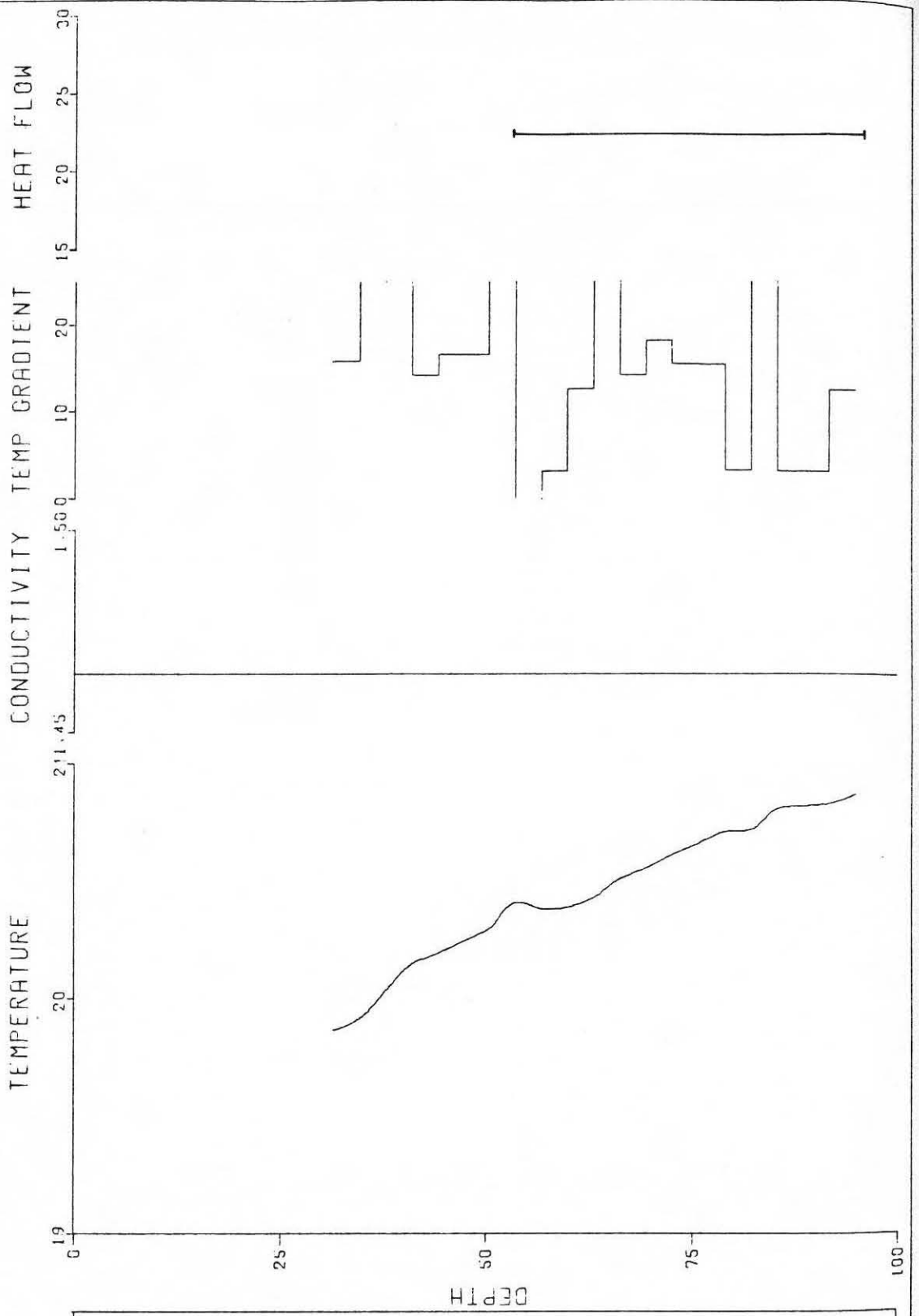
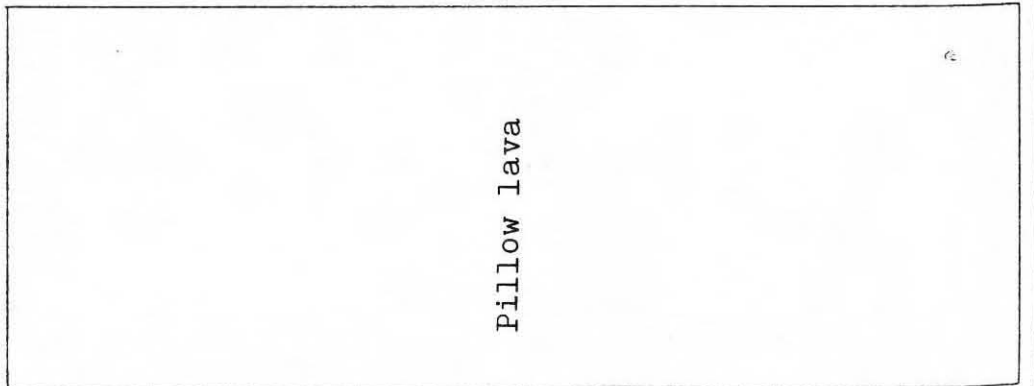
# CYPRUS 19

LITHOLOGY



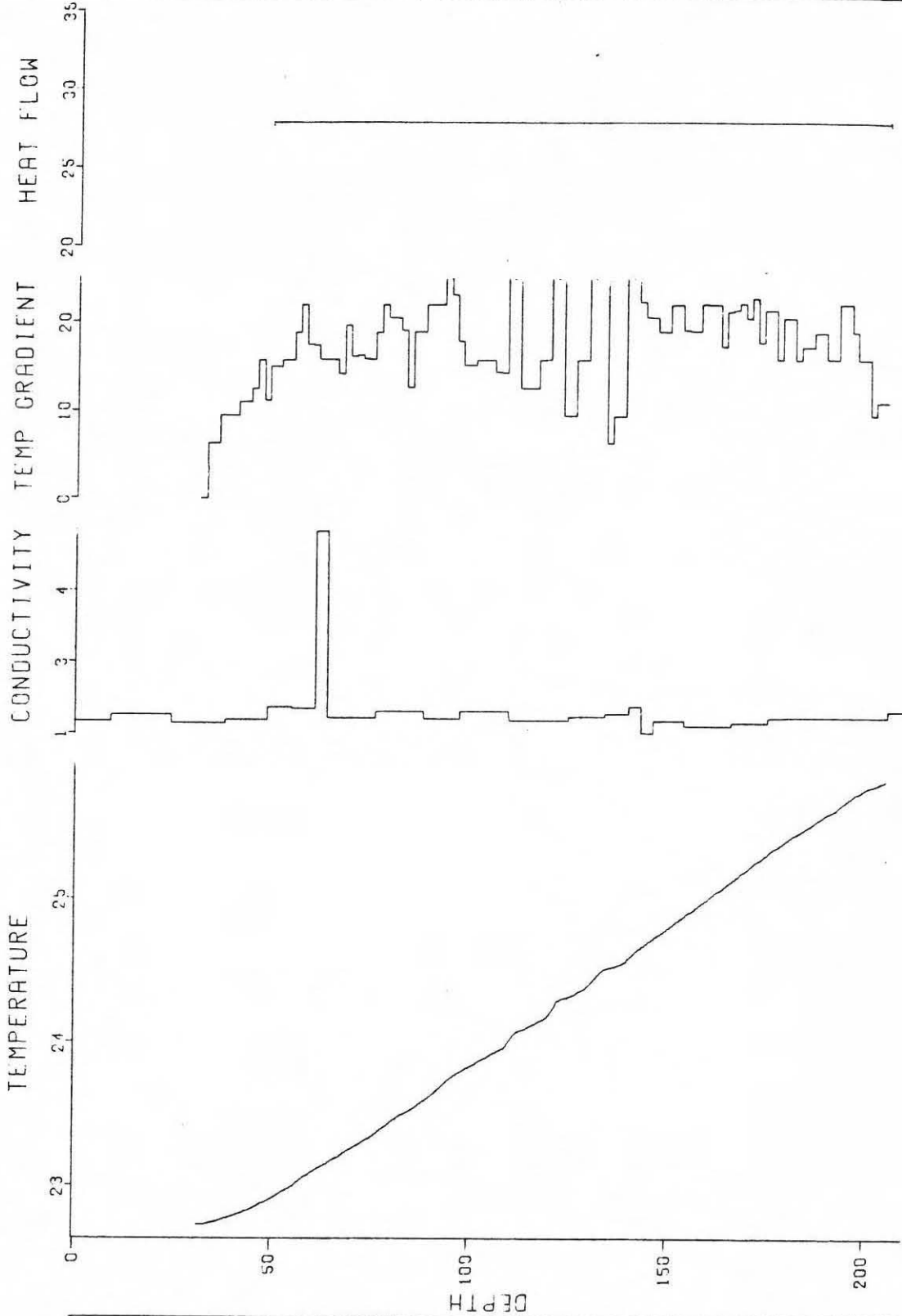
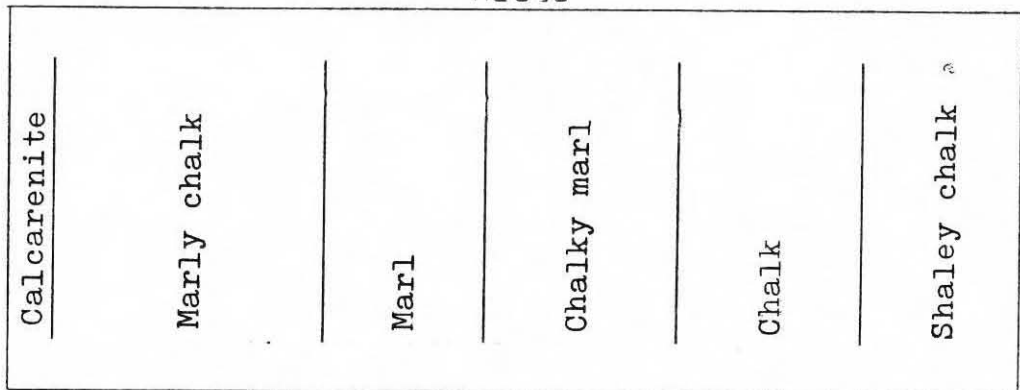
# CYPRUS 20

LITHOLOGY



# CYPRUS 21

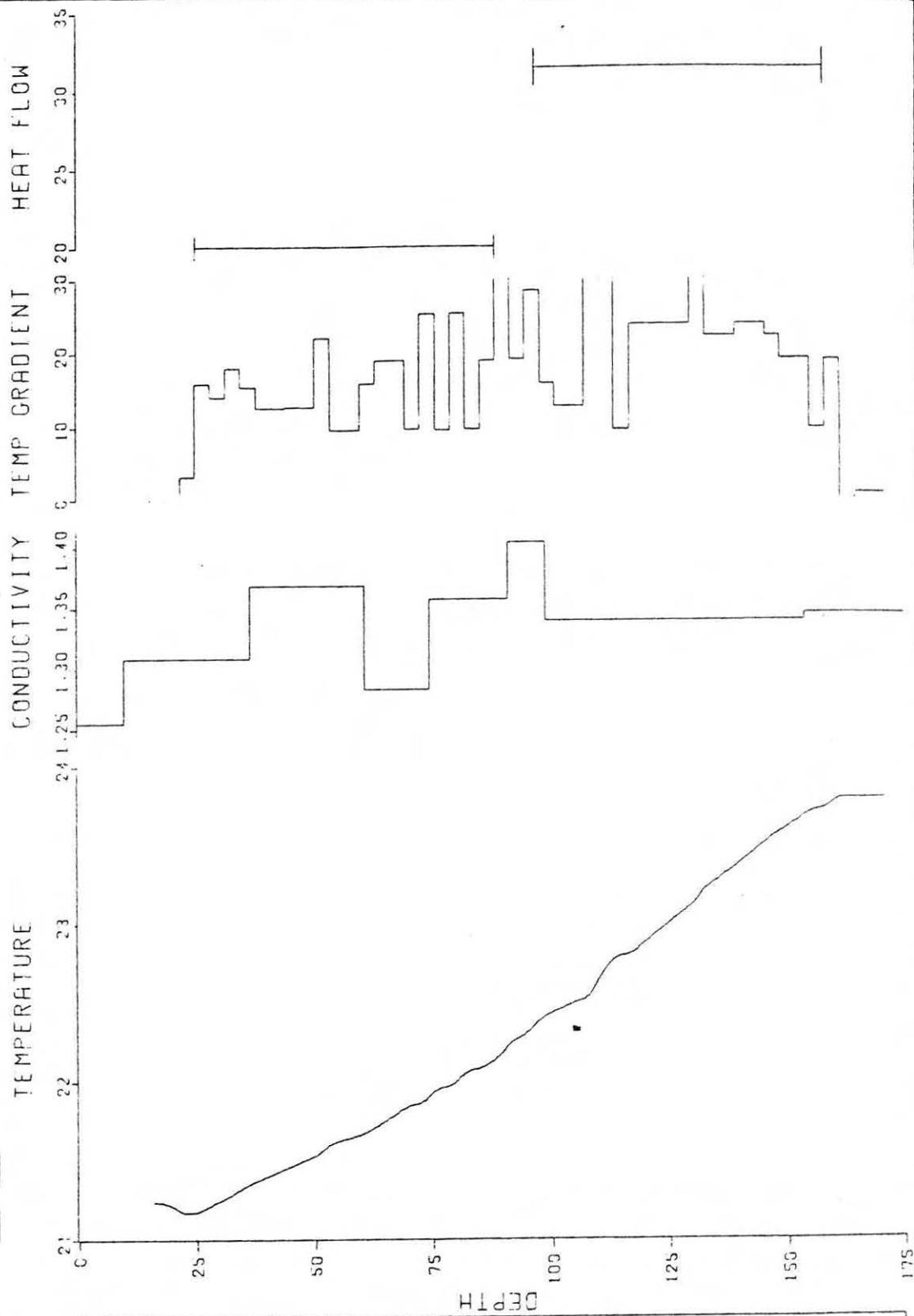
LITHOLOGY



# CYPRUS 22

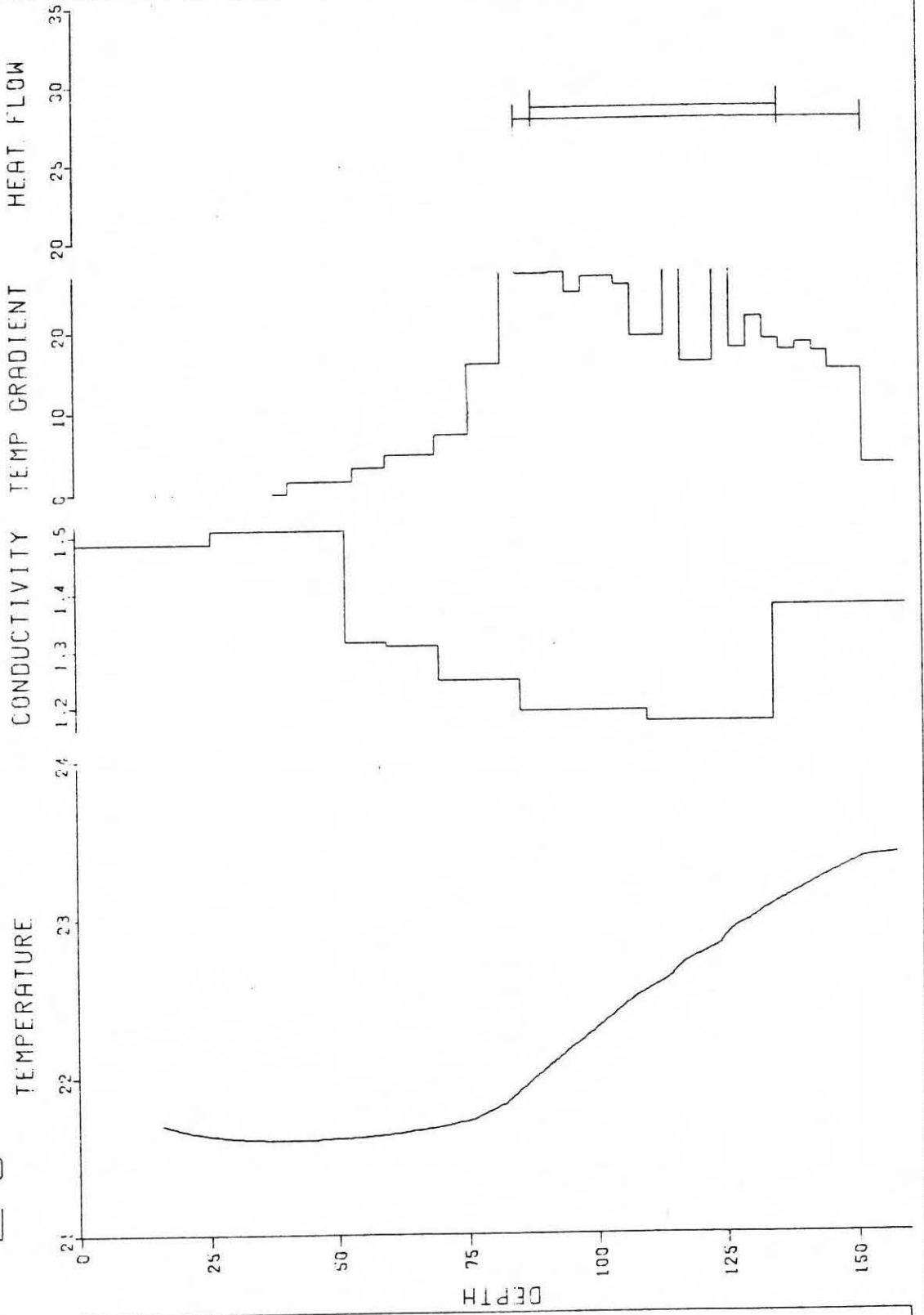
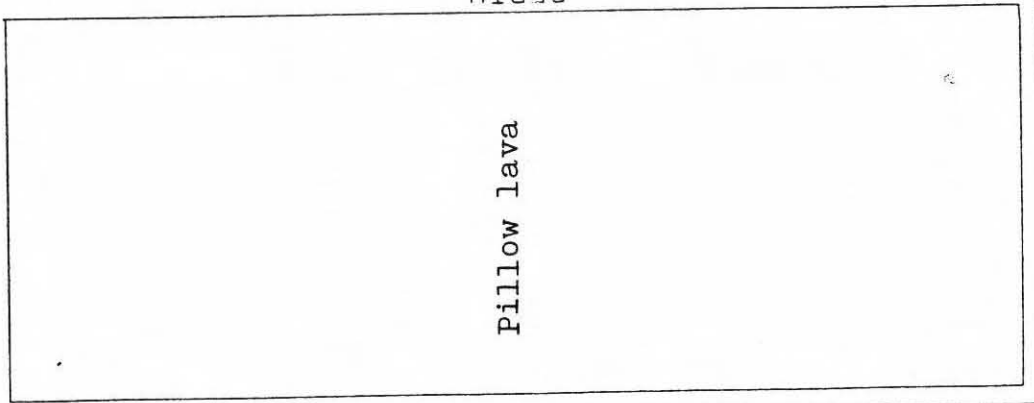
LITHOLOGY

Pillow lava



# CYPRUS 23

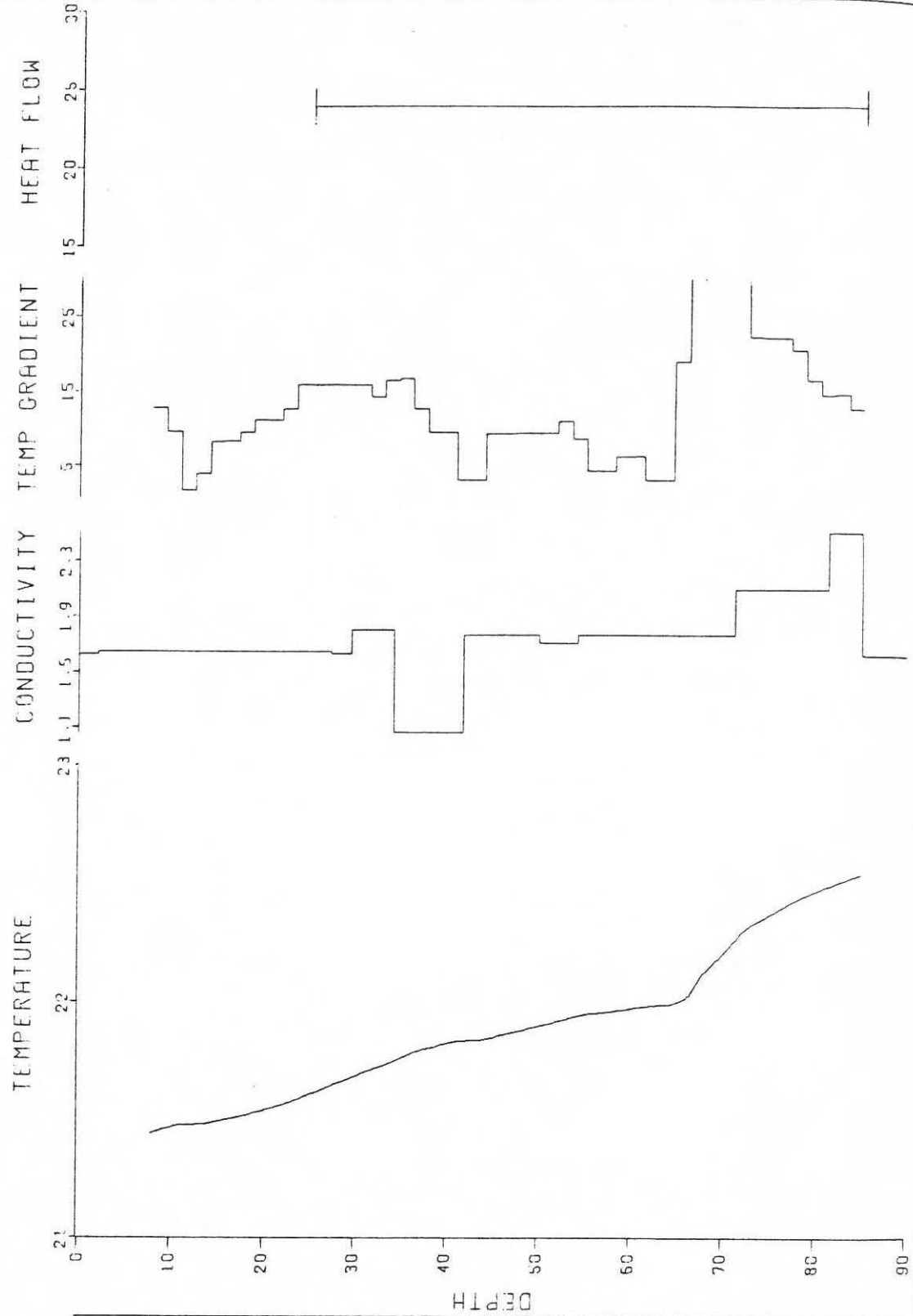
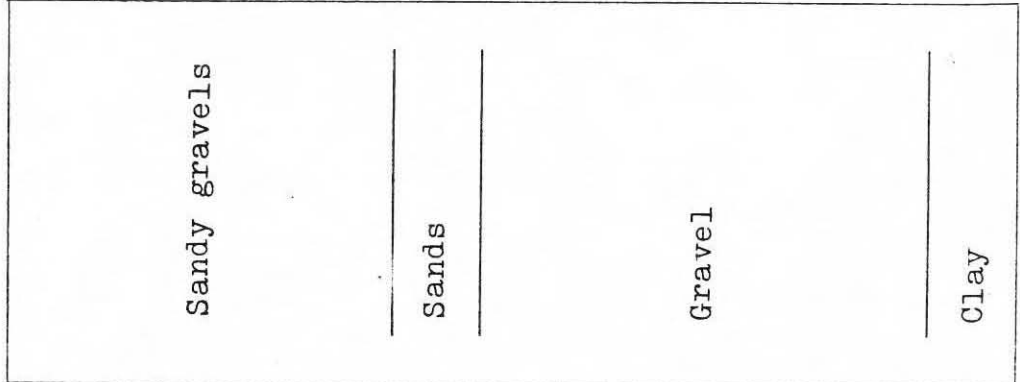
LITHOLOGY





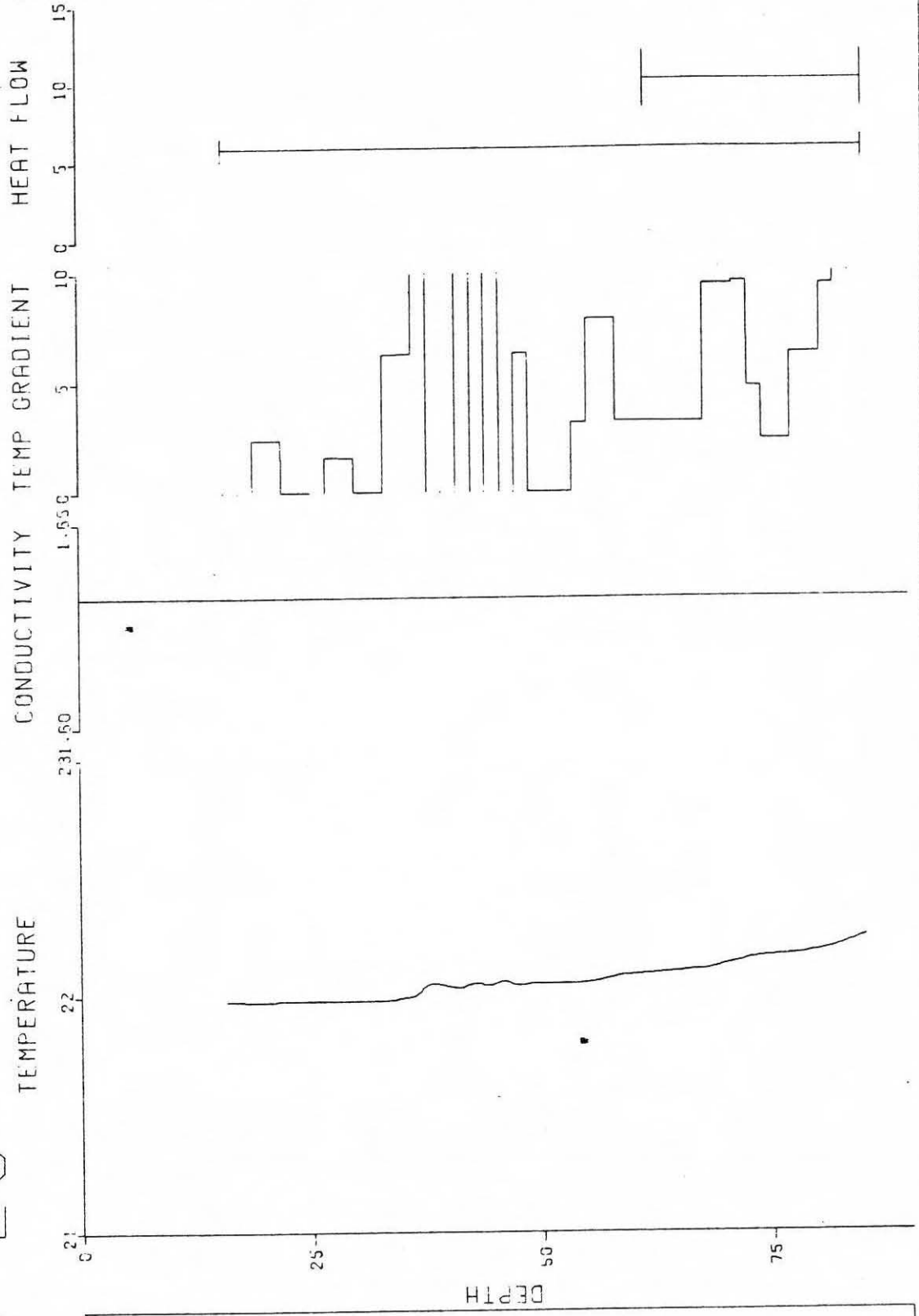
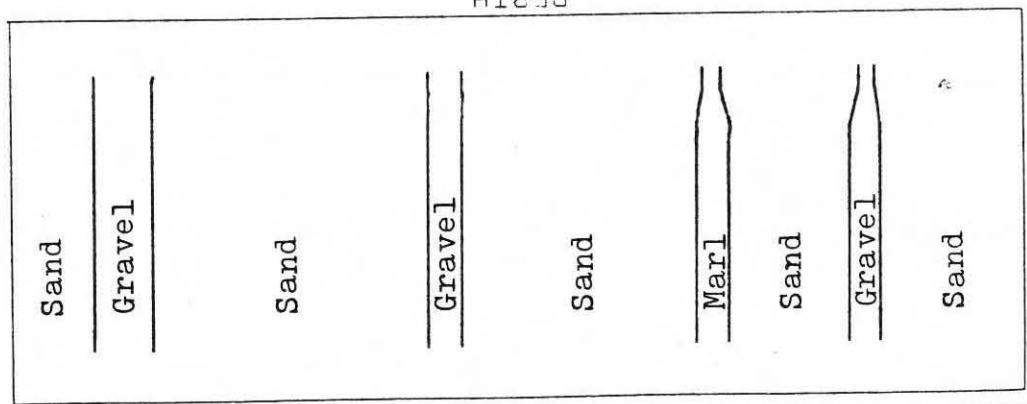
# CYPRUS 24

LITHOLOGY



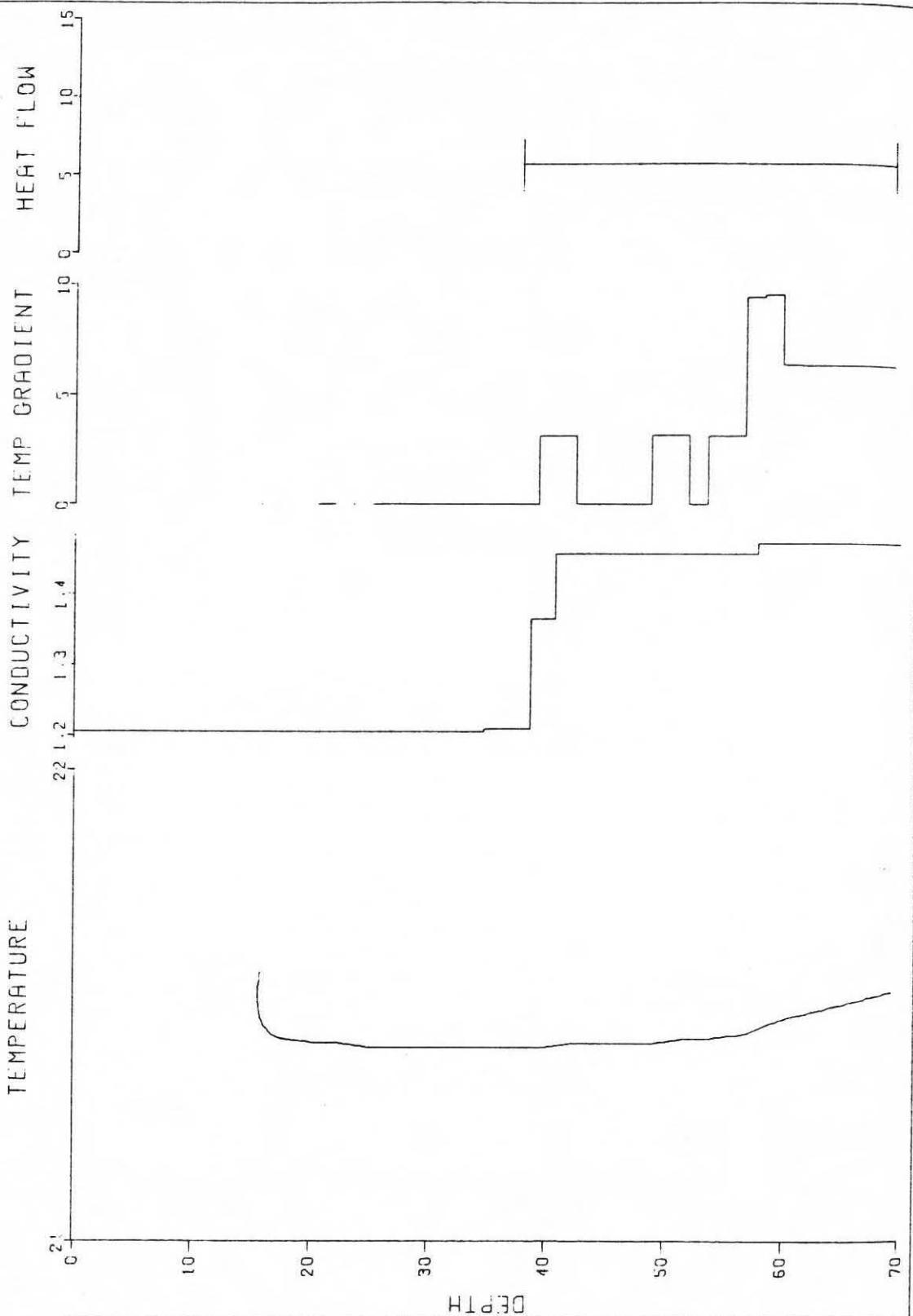
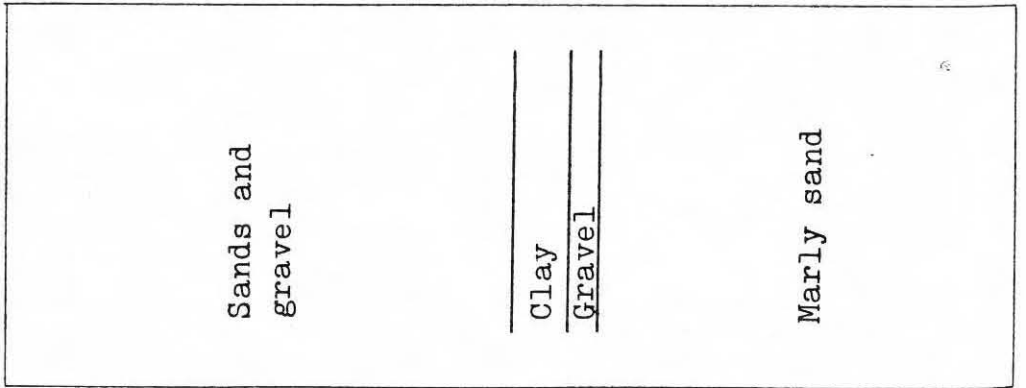
# CYPRUS 25

LITHOLOGY



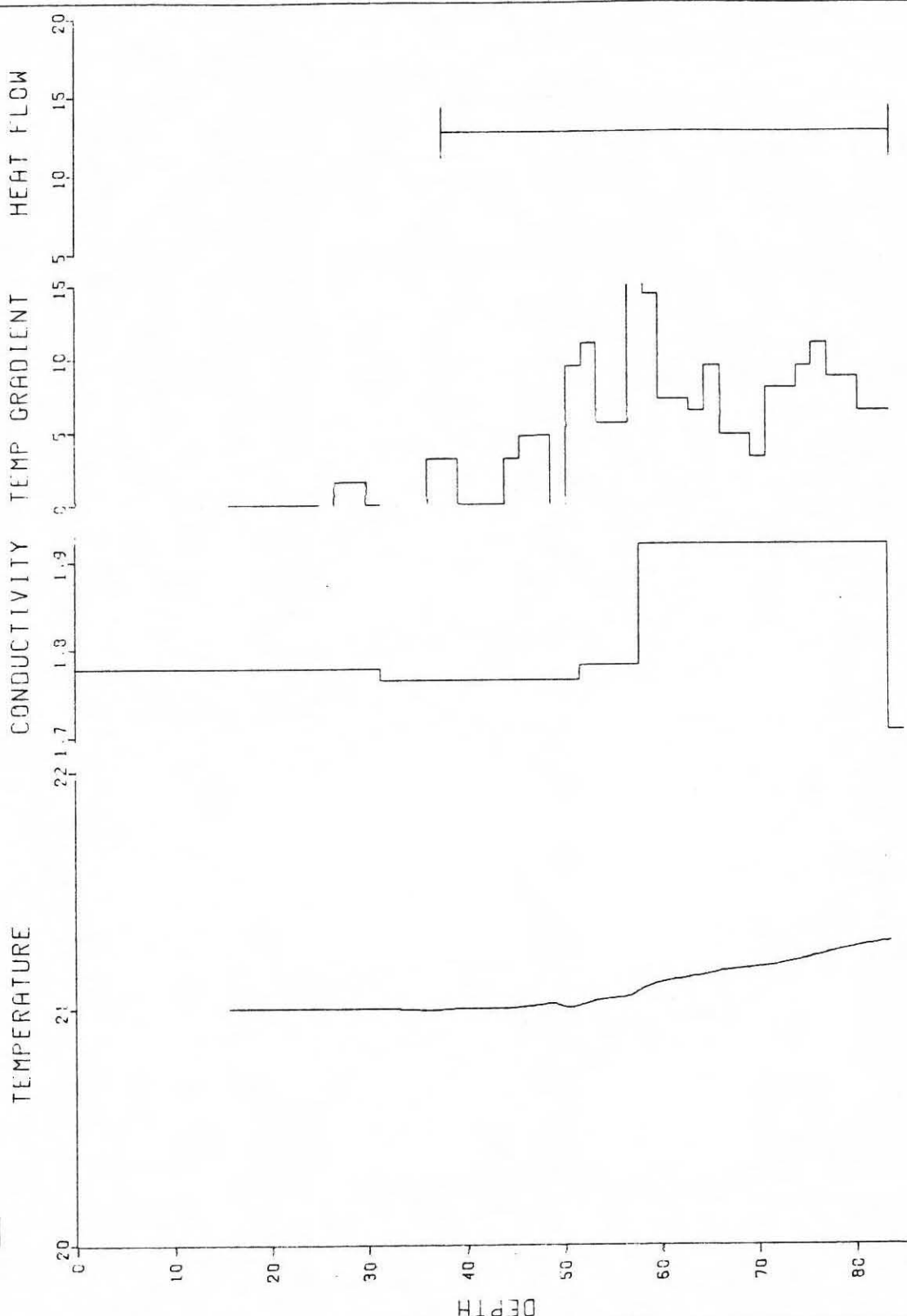
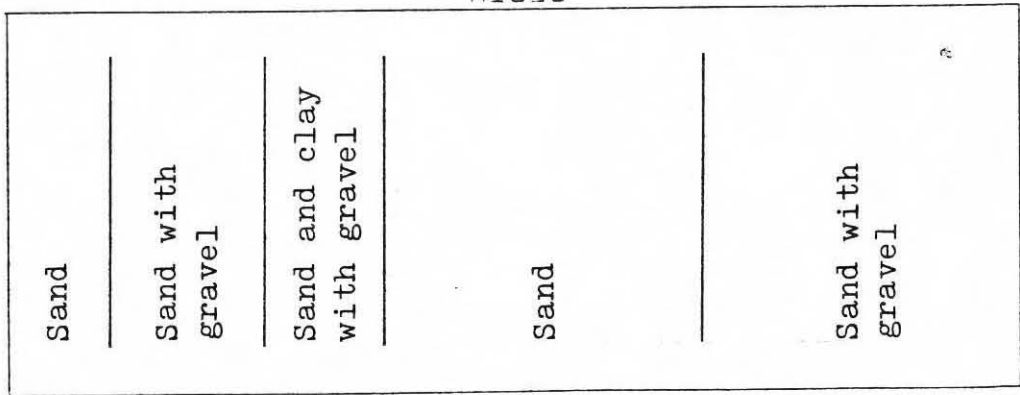
# CYPRUS 26

LITHOLOGY



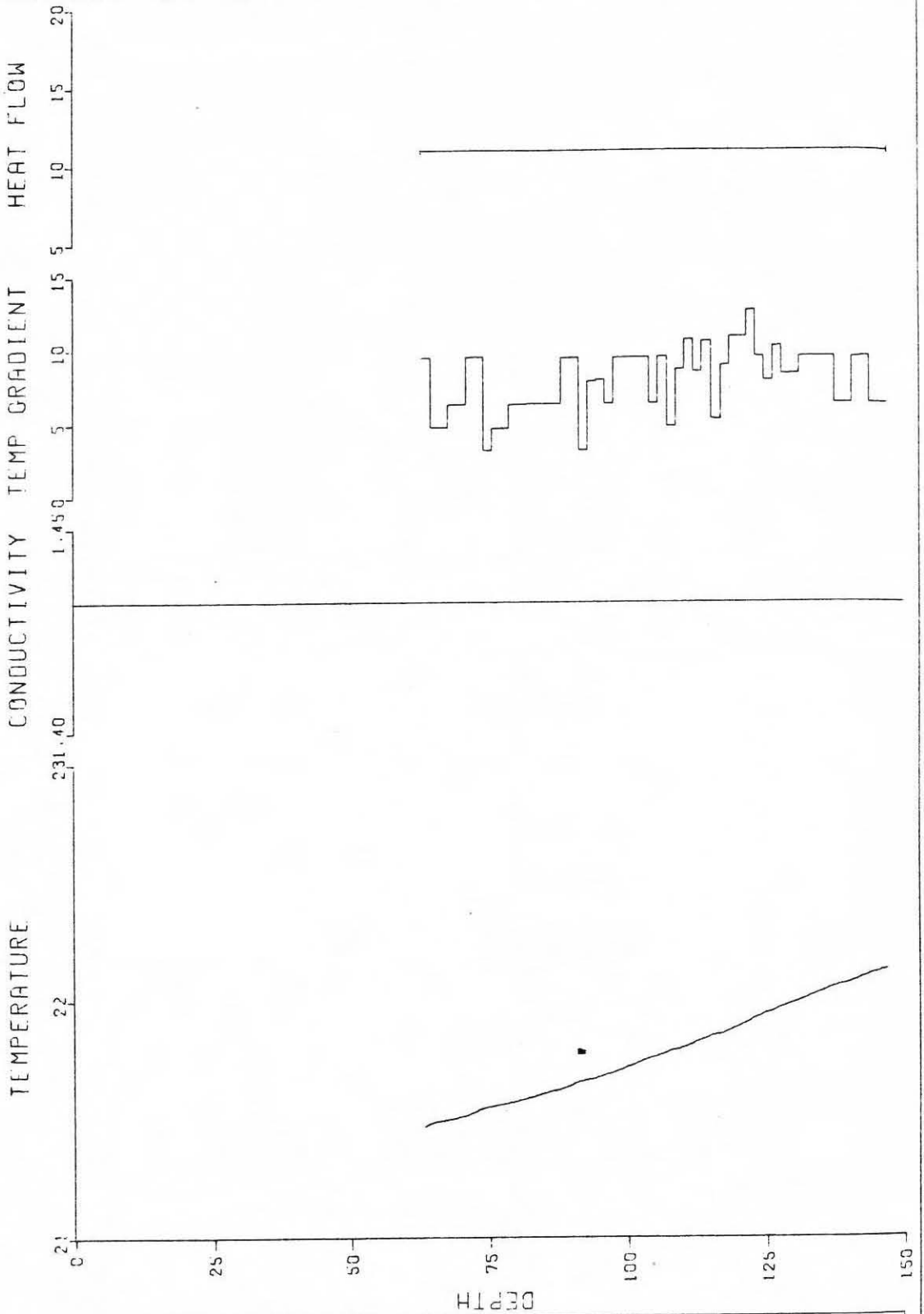
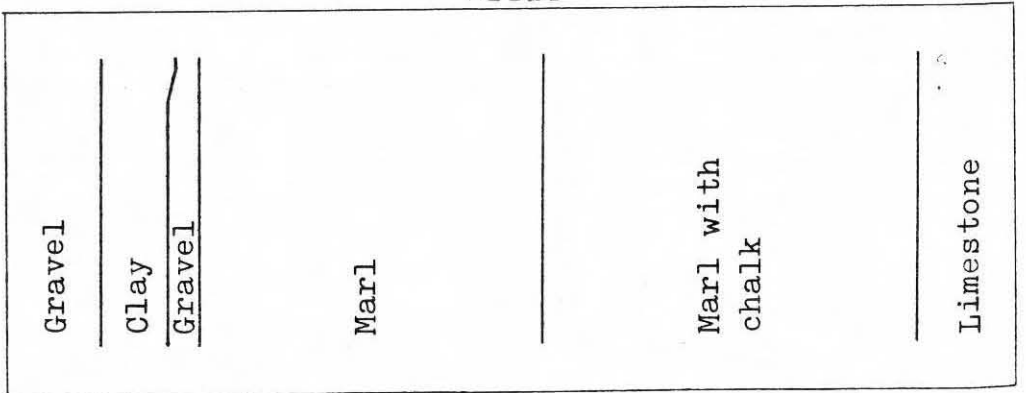
# CYPRUS 27

## LITHOLOGY



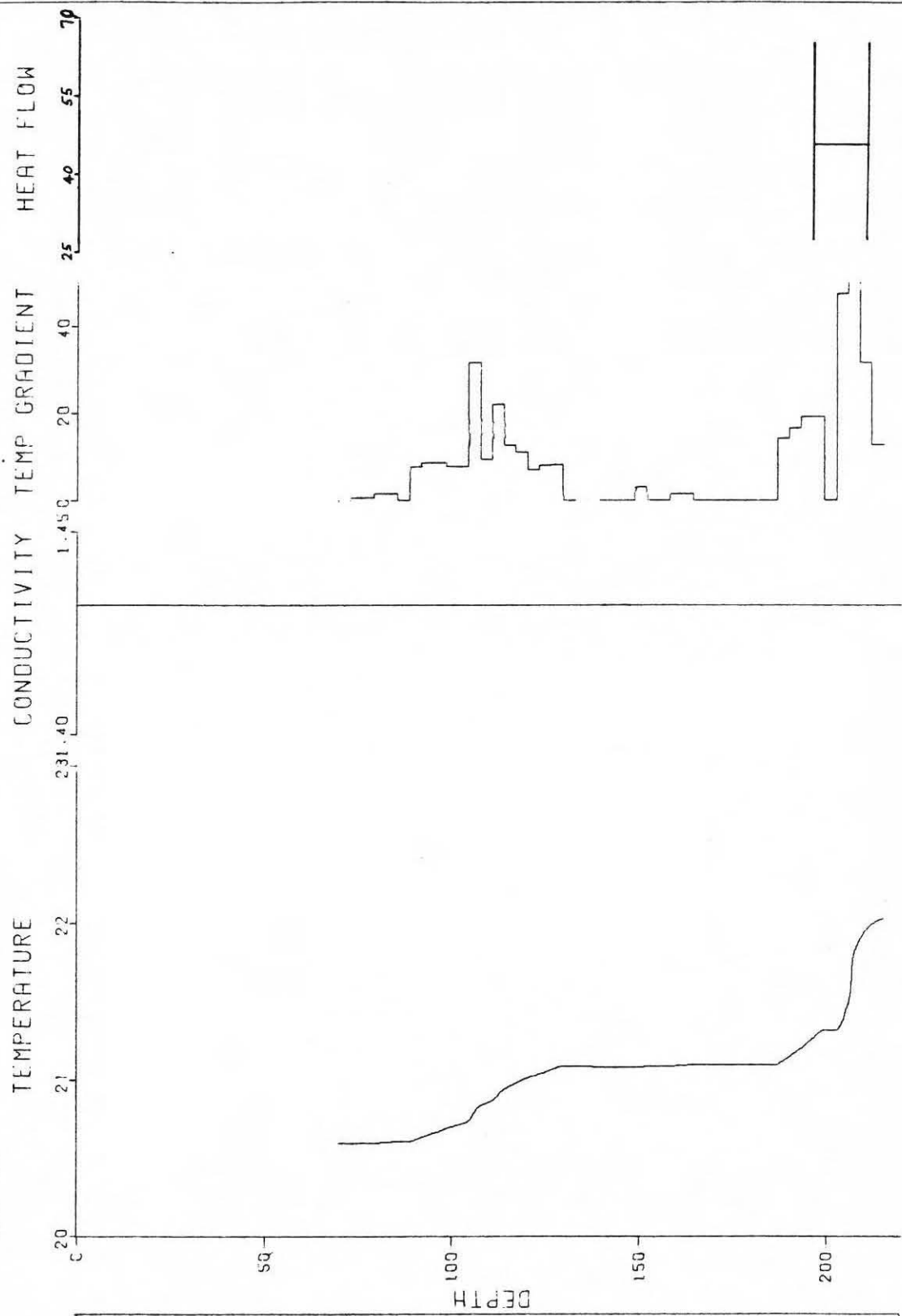
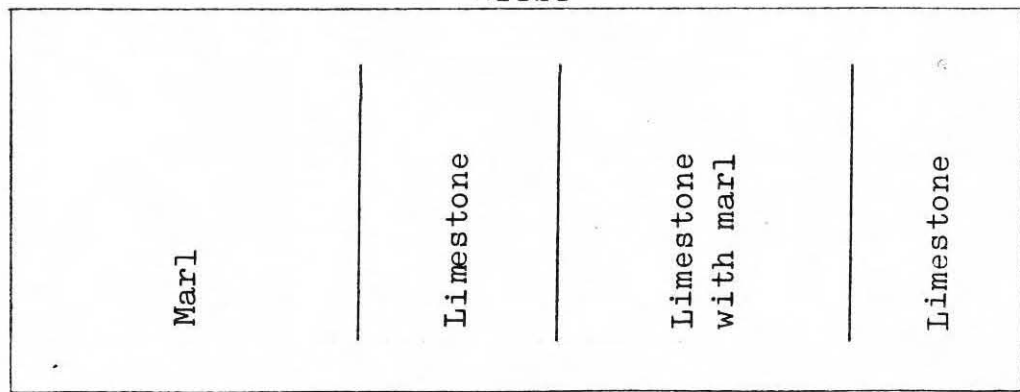
# CYPRUS 28

## LITHOLOGY



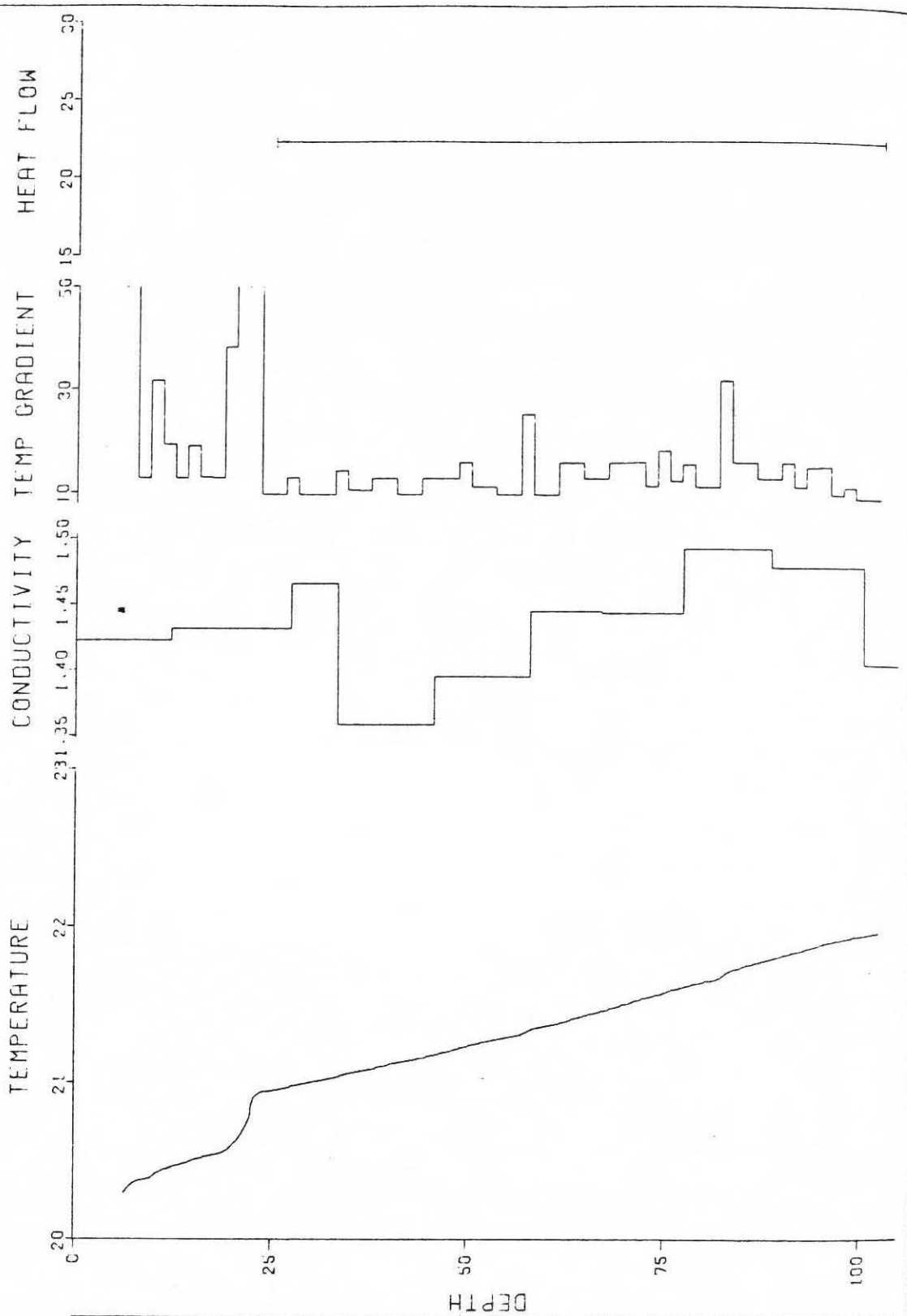
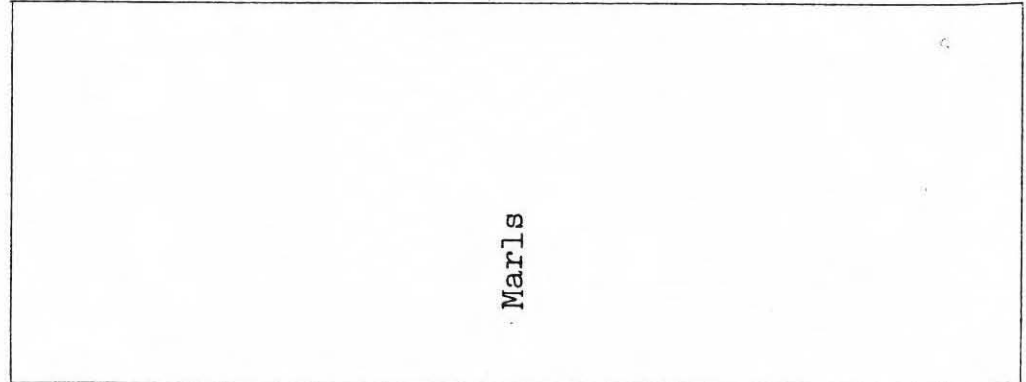
# CYPRUS 29

LITHOLOGY



# CYPRUS 30

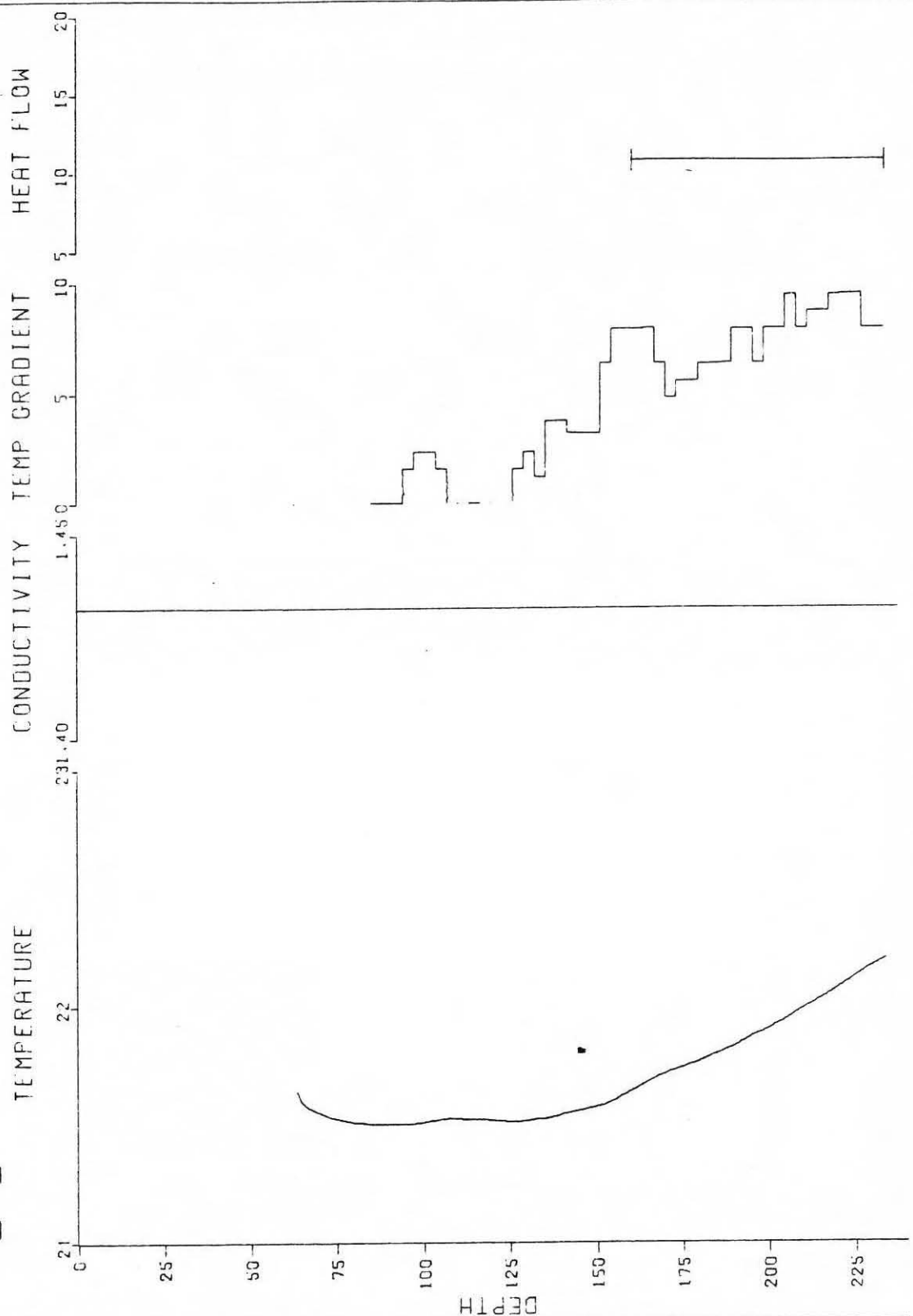
LITHOLOGY



# CYPRUS 31

## LITHOLOGY

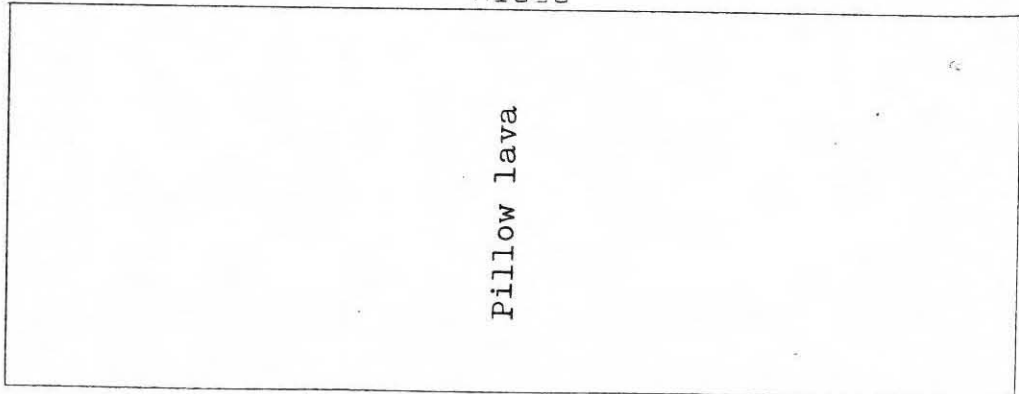
Limestone, chalk and marl	_____
Marl	_____
Limestone	=====
Marl and chalk	=====
Chalk	_____
	_____
Limestone and chalk	_____
	_____
Chalk	_____





# CYPRUS 32

LITHOLOGY



TEMPERATURE

22

233.95

CONDUCTIVITY

2.300

TEMP GRADIENT

5

10

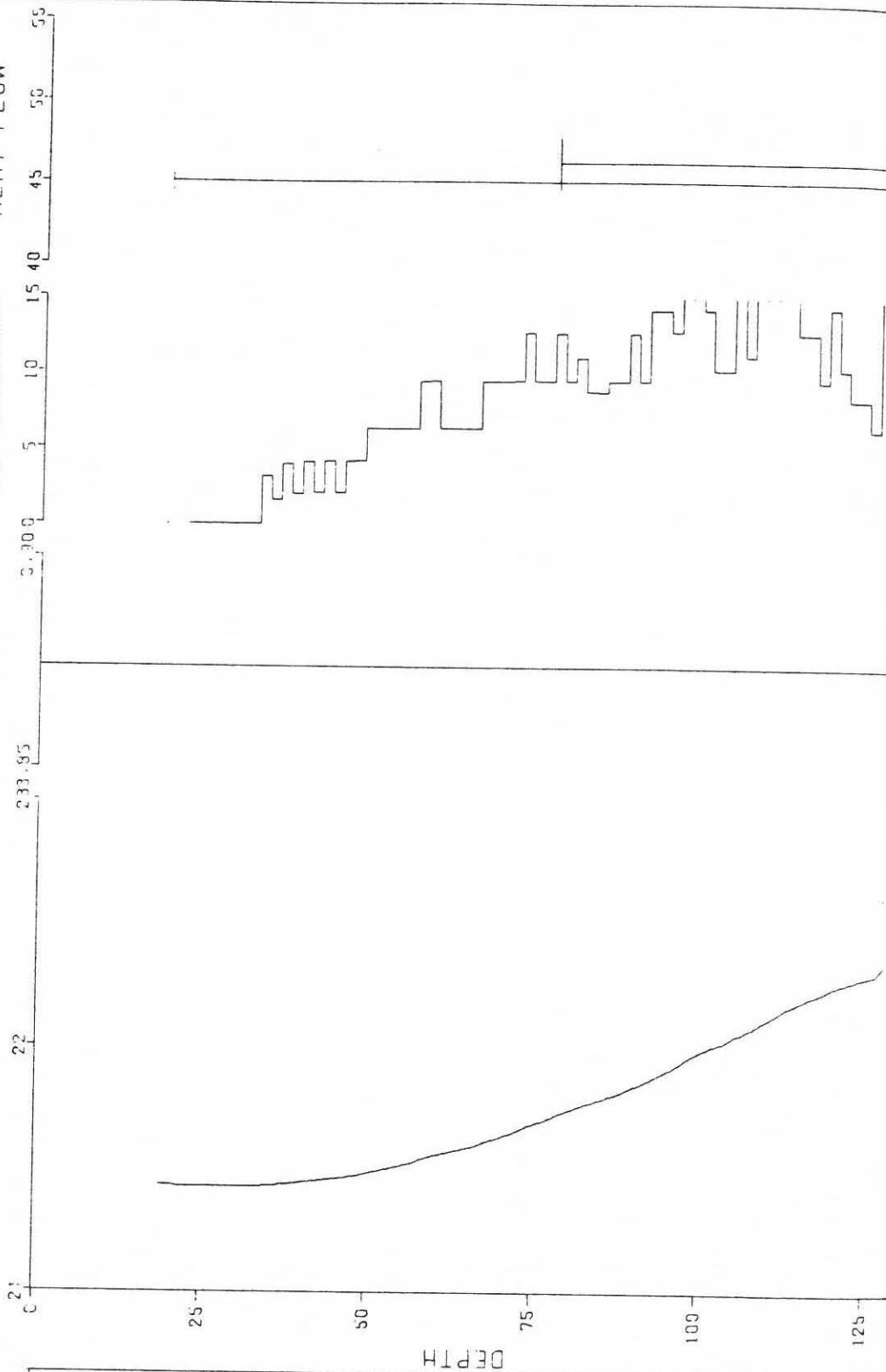
15

HEAT FLOW

40

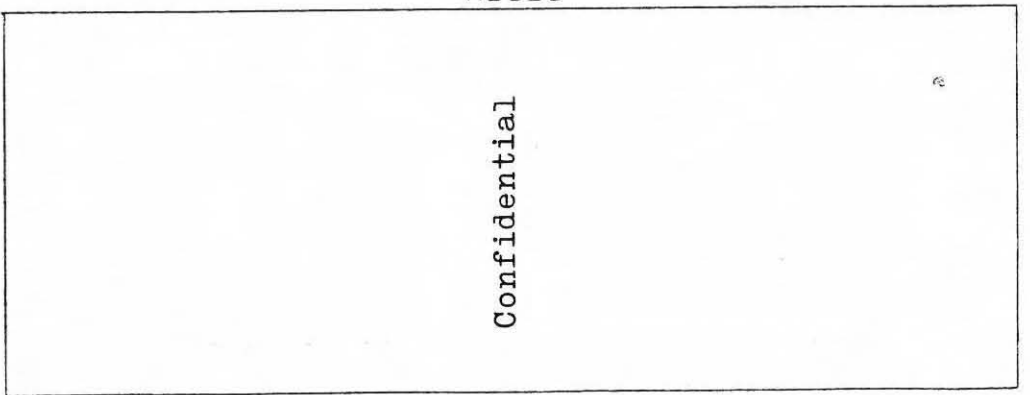
50

55



# CYPRUS 33

LITHOLOGY



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