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COMPARISON BETWEEN THE PENETRATION-CURVE OF SOUNDING-NEEDLE BEFORE AND AFTER THE PLACING INTO POSITION OF A PILE

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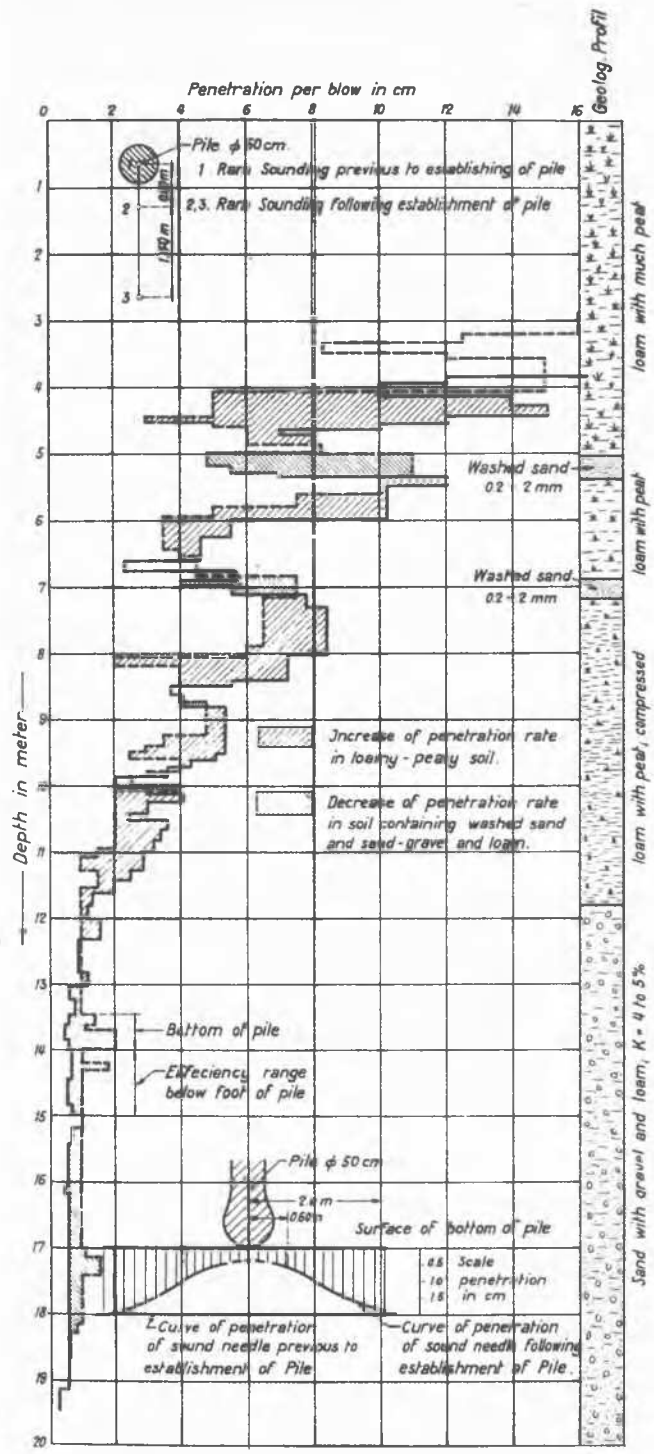

Curve of penetration of sounding needle before and after the ramming of pile.

FIG. 1

1. Sounding needle

For the determination of the Penetration curve a sounding-needle was used.

2. Programm of Work

First the ram - soundings were carried out. Afterwards, a concrete pile of radius r = 25 cm was driven in at the place where the first ram-sounding was made.

Hereupon, the second ram-sounding was carried out, at a distance of 60 cm from the pile; finally at a distance of 2,00 metres the third ram-sounding.

3) The Penetration-curves

The penetration-curves, which were obtained before and after the placing of the pile are shown on fig. 1. The penetration curves of the first and third soundings were the same.

4) Geological formation of the soil

The geological composition of the soil is shown by fig. 1

5) Conclusions

From the penetration curves in fig. 1 the behaviour of the ground at a distance of 60 cm from the corner pile can be seen.

a) in loamy peaty soil the penetration of the needle becomes greater after the driving - in of the corner pile than before the driving - into position of the corner-pile.
b) In washed sand and sandy gravelly soil the penetration of the needle after the driving in of the corner-pile is less than before the driving in of the corner-pile.

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