HIGHER TECHNICAL INSTITUTE

POWER HYDRAULICS FOR DRILLING

EVAGORAS FIAKKOU

3M2

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Name

EVAGORAS FIAKKOU

Class: **3M$_2$**

Ac. Year: **1996/97**

Supervisor

PANAYIOTIS TRAMOUNTANELLIS

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BASIC PROBLEMS THAT NEED TO BE SOLVED WHEN DRILLING ARE THE FOLLOWING

1. THE EXCESS SOIL

2. DRILLING AT ANY KIND OF SOIL (HARD)

3. HAVING UNLIMITED DISTANCE OF DRILLING

SUMMARY

Many scientists put substancial effort in order to solve **THE PROBLEM OF DRILLING HORIZONTALLY.**

Obviously, as time passed many solutions to the problem were found. But, in our days everything has to be made simpler. This requirements makes the work of the scientists even more complicated.

As it has been stated in the report above, there exist a number of ways available that help drill horizontally. After examining the various methods of drilling horizontally it has been concluded that the third method is the ideal one since it is an easy as well as a fast method.

First of all. the excess soil does not have to be taken out of the hole. Besides that, the distance of drilling is unlimited. The machine is light and extremely easy to handle. It is able to accomplish its target with enormous accuracy due to the use of a compass.

This machine has been designed and some calculations regarding it have been made. It seems that it has the advantage of hitting the soil every 0.1 second. Due to the small surface area that it has to hit and the fact that focuses the sound waves it can drill absolutely everything besides hard rock.

As research has shown this third method of soil displacement is the best solution to the problem. Of course, as technology evolves there is a great possibility that even better methods will be invented.