

ging open ditches; the Government also has used it in military cantonment and airfield construction work. County engineers, drainage engineers, the United States Public Health Service, county health commissions, railroad companies, state and county highway departments, and contractors, have employed explosives successfully in ditching through marsh, swamp, and woodland.

In reporting on ditching work in Public Health Bulletin No. 104, Mr. W. D. Tiederman summarizes his experiences in ditching with dynamite as follows:

1. It is possible to dig a ditch through land filled with roots and stumps, removing stumps at the same time the ditch is opened.

2. It is possible to open a ditch in ground that is too boggy to be shoveled.

3. There are no large spoil banks along the line of ditch, as the dirt is scattered broadcast.

4. A ditch of almost any size desired may be opened.

5. The work is done very quickly.

6. Little labor is required, which is a big item today.

7. The work is more agreeable to laborers, and they can be held much longer.

8. The cost is much less than handwork."

When a ditch is dug by hand or machine, the earth is piled up along the sides, forming spoil banks. These prevent the easy flow of water from the fields into the ditch, and the banks cover land which cannot be tilled. Dynamite, instead, scatters the earth on each side of the ditch, leaving no spoil banks.

A blasted ditch is usually two to three times as wide as it is deep and side slopes are one to one. The action of the explosive force is in a cone shape; when a series of charges is detonated for ditch blasting a V-shape ditch is expected. However, it is possible to blast a ditch of desired bottom width by placing the charges at certain depths.

Some people think it is necessary to clean the ditch by machinery or hand after the blast. If the charge is of the correct size and is placed properly, in most instances, there is no extra work required after the blast. The few clods of earth that fall back into the ditch will soon be broken up and washed away by the flow of the water.

Blasting may be done with satisfactory results through ground so soft that there is no footing for horses and no support for wheels. It can be accomplished when the surface of the ground is under water.

The size of the charge and the method of blasting will vary with the moisture content of the soil. Dynamite has often finished ditches that were too wet and rough for a drag line and too small for a floating dredge.

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