

different in these respects from Leda clay. Microscopic examination showed that both consisted of *angular* crystalline fragments."

The writer has made an examination of the microscopical preparations of the Messrs. Milton Hersey Co. Ltd., and found that nearly all of the angular crystalline fragments are quartz. In addition there are present a few fragments of green hornblende, garnet, etc. The grains are sharply angular, and it is this character which decides definitely that the grains have been produced by crushing or breaking, and, therefore, by glacial agency.

At the time when the writer visited the locality a section of 8 feet was exposed, which showed:

- 2 ft. yellow oxidized sandy clay.
- 5 ft. bluish sandy clay.
- 2 ft. boulder clay.

The boulder clay passed without apparent break into the bluish sandy clay. The upper 7 feet of the section contained only occasional small smoothed boulders, so that a division by means of the presence and absence of boulders could be made between the lower 2 feet and the rest of the section, but there was no actual depositional break. The yellow oxidized part is merely the weathered upper surface of the bluish clay. It is here that the fantastic weathering patterns were observed (See Figure 1). The bluish sandy clay was dry at the time of examination and had sufficient cohesion to stand unsupported on the walls of the excavation, and an external examination of it gave no inkling of the fact that when mixed with water this same material would run almost like a liquid. This material, which can be called nothing but boulder clay matrix, is a veritable quicksand, according to the above definition, i.e., no matter what its properties when dry, when mixed with a certain percentage of water it will flow. Investigation to determine what this percentage of water is, has not been carried out.

As to the conditions under which such a deposit was formed no definite statement can be made, other than that the rock is composed of angular crystal grains formed by grinding or crushing, i.e., by glacial agency, and whether directly deposited by