

AN EXPERT TESTIFIES.

**He Criticises Other Experts and Thinks
Kansas City Has an Ample Water
Works System.**

Professor Charles B. Brush, of New York, an eminent civil engineer, gave expert testimony at yesterday's hearing in the suit of Kansas City against the National Water Works Company. He is professor of hydraulic engineering at the New York university, and was one of the consulting engineers in the construction of the Hackensack water system. In addition he has been employed as consulting engineer in many of the most important hydraulic projects of the country and ranks among the best of the civil engineers of the country.

Professor Brush's testimony was submitted in writing and covered thirty closely written pages. He stated in advance that he had employed ten days in a thorough examination of Kansas City's water system. He gave it as his opinion that the system is ample to meet the demands made upon it. No city in the world of a size equal to Kansas City, he said, was supplied with water by direct pressure, and of all the direct pressure systems he had seen, he considered Kansas City's the best.

While making his examination of the system Professor Brush demanded that gauges be attached to a large number of hydrants, in various portions of the city.

After studying the pressures indicated by these gauges he expressed the opinion that the pressure should have been sufficient to meet the demands at any fire.

In his testimony Professor Brush criticised the report submitted by Engineers Benzenburg, Hermony and Holman, the experts employed by the city to submit estimates of the probable cost of a new plant. He pointed to several deficiencies in the estimate and advanced the opinion that the system advocated by these experts would cost at least \$3,000,000 instead of \$2,000,000.

He also declared that the tunnel under the river advocated by them would prove insufficient in that it would be liable to leave the city without water for indefinite periods whenever the mud clogged the pipes, which, he thought, would occur frequently. Figuring on the earning capacity of the present plant and comparing it with the systems in cities of about the same size, Professor Brush estimated its value at \$4,000,000.

The attorneys for the city did not cross-examine Professor Brush yesterday, as they wanted time to carefully examine his testimony.

The hearing will be resumed this morning. Professor Brush will be proceeded with. Peter Milne, engineer of the Brooklyn water works system, and P. H. Ledlie, of St. Louis, who is now superintending the construction of the water works at Hannibal, Mo., are in the city and will give expert testimony after the completion of the examination of Professor Brush.