

end of a long tube, when it was found that the tune could be heard at the other end without any perceptible change in the rhythm.

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(To be Continued.)



The New International Bridge

Between Brownsville and Matamoras.

RETROSPECTIVE — PROSPECTIVE.

WHAT is a Bridge? A Bridge is a structure contrived by man spanning a space of air between one solid formation on one side to a solid formation on the other. Whether we know it or not, all of us are interested in a Bridge. The reason why is not hard to tell. In childhood's days all recall the time when we tried to jump a ditch that was too wide for our strength and landed in the water. From that day we are all interested in any form of structure that spans space. Hence our intuitive interest. This interest is augmented by the fact that a bridge represents the handiwork of man overcoming an obstacle.

Primeval man possessing by nature an inquiring and roving disposition, tiring of his immediate surroundings, soon decided to cross the stream bordering his domain. After using swimming and floating crafts he readily discovered that a fallen tree across a creek, felled by the beavers or by the elements, was a quicker and easier means of ingress and egress. At convenient points he therefore felled trees across small creeks and streams. When the lusty axeman first felled such a tree, so far as man is concerned, he created the art of bridge building. It is worth while to note in passing that this primitive kind of bridge endures this day.

After man's interest increased he desired to cross cattle, teams, and so it was natural for him to fell two trees side by side and lay boughs across. Again after a time he wished to span streams that were too wide for a fallen tree. When this problem was solved the first bridge engineer was born. But solved it was.