

The CHAIRMAN. Mr. Allen, a good many years ago I had some experience operating waterworks with wooden pipe. Have you ever had any experience with wooden pipe?

Mr. ALLEN. Yes; I have used wood pipe, but not for the high pressure necessary for oil transportation, running from 600 to 1,000 pounds. I have used wooden pipe for relatively low pressure, and particularly pipe made from the redwoods on the Pacific coast that is very durable and satisfactory for that purpose.

The CHAIRMAN. But it would have to be wrapped with copper wire would it not?

Mr. ALLEN. Or steel bands, or something of that kind. And then, Mr. Chairman, there is another type of wood pipe of the laminated type, with one layer laid on another, which make it quite strong, but it is still not recommended for the pressures which are necessary for the high pressure oil line.

Mr. DONDERO. Mr. Allen, I was interested in the statement regarding oil movement on the Great Lakes in tankers. How does that oil reach the tankers; by barge or pipe line?

Mr. ALLEN. It goes to the south Chicago district by pipe line and is moved up through Lake Michigan and around down into Lake Erie and on to Ontario by lake tankers, as they are called, and for a limited distance by barges.

Mr. DONDERO. The point I am interested in is this: Does any oil move up the Mississippi River by barges from the Texas and Louisiana fields?

Mr. ALLEN. It moves up the Mississippi, but not in this particular district. It moves by barges up the Ohio.

Mr. DONDERO. To Pittsburgh.

Mr. ALLEN. To Cincinnati, Ashland, and Pittsburgh; yes. That is where the principal barge movements are.

The CHAIRMAN. The oil moving to Chicago comes principally from Kansas and Oklahoma, does it not?

Mr. ALLEN. It also comes from the West because of the demands of the midcontinent refining district in the production of productions which are shipped on to the east where they use every form of transportation they can to bring the oil to the refinery.

Mr. DONDERO. What is the quickest method of solving the need; by barges or by the pipe line across Florida?

Mr. ALLEN. I do not know.

Mr. DONDERO. We have some testimony that the pipe line is the quickest solution of our problem.

Mr. ALLEN. You understand that would depend upon the amount of dynamite you can get behind it, and by dynamite I mean what possible force can be put behind the project. Remarkable things can be done with enough force back of them. My inability to answer the question results from a lack of understanding of the force that would be put behind each project.

Mr. CULKIN. The plan proposed, so far as I understand it, is to bring the oil from Texas through the intercoastal waterways to Card-belle and by pipe line across Florida to the Atlantic coast-line canal, so it involves the use of a pipe line across Florida.

Mr. ALLEN. Yes.