

Captain RUDE. Nowhere between Corpus Christi and Norfolk, or, I would say, all the way to Trenton.

Mr. DONDERO. At no other place except the two or three you mentioned?

Captain RUDE. The only place is along the Connecticut coast, where it is somewhat exposed, but only for a short distance; even that is not an open coast, it is in Long Island Sound.

The CHAIRMAN. Under present conditions you would have to put into the open sea around the Jersey coast?

Captain RUDE. Yes; if you are going in barges, but not to Trenton.

The CHAIRMAN. But you would have to do that if you were going to Boston.

Captain RUDE. Yes.

The CHAIRMAN. You have a type of oceangoing barge which hauls coal from Norfolk to Boston.

Captain RUDE. Yes.

The CHAIRMAN. Could not these river barges be operated on the 12-foot channel to Norfolk and then discharge their cargo to one of the deep-draft barges, and could they not operate from there to Trenton without trouble, because it is all deep water?

Captain RUDE. They could operate there because it is all deep water for the larger tugs.

The CHAIRMAN. One of those large barges would hold how many barrels of oil? Do you have any idea about that?

Captain RUDE. Not except by hearsay. I understand the ones on the Gulf are about 120 feet long, with less than a 9-foot draft. Somebody who is quick at mathematics could figure out the number of barrels that would be.

The CHAIRMAN. We have all sorts of experts here. We can get those figures.

Mr. DONDERO. I do not know whether you are the right witness to whom I should direct this question. But have you any information regarding the pipe lines leading from the Pittsburgh area to the Atlantic coast?

Captain RUDE. No, sir; I am a sailor; I do not go back inside.

As I said, from Perth Amboy, N. J., to Boston, Mass., natural waterways are available, except through the Cape Cod Canal. This canal has a controlling depth of 29 feet. The distance from Perth Amboy to Goston is approximately 230 miles. This route is wholly inside except for a short stretch along the Connecticut coast in Long Island Sound, and the short distance between the eastern terminal of the Cape Cod Canal and Boston. This waterway from Corpus Christi to Boston is covered by 43 Coast and Geodetic Survey charts. A large number of them are the regular navigation charts, while from Norfolk, Va., to Jacksonville, Fla., a special set of strip charts have been constructed of ample scale for the purpose. From the Mississippi to about Port Arthur, Tex., two special charts have been prepared covering the Intracoastal Waterway and side areas in Louisiana and Mississippi on each side of the water. These two charts are charts 1050 and 1051.

There are two panels to a chart, and they cover the waterway with a red line showing the course a small vessel should take along the waterway.