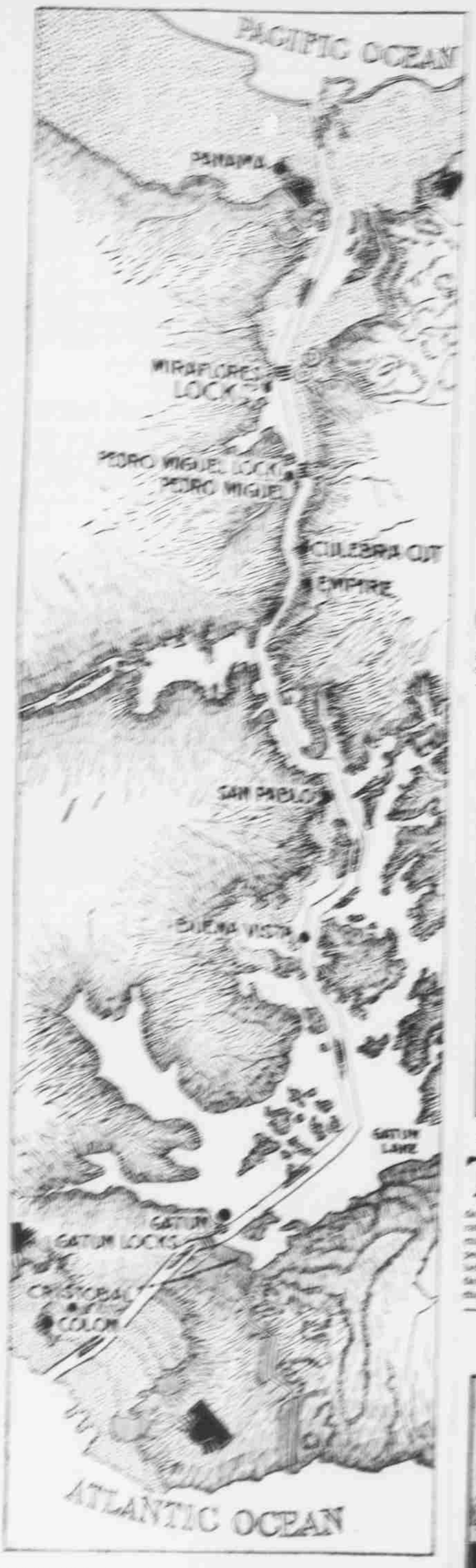
The Panama Canal

Birdseye View Showing Route of the Great Waterway Now Nearing Completion



A CONVOYED by present plans, water will be let into the new Panama canal on July 1. The first boat will enter in September. Going from the Atlantic to the Pacific vessels will enter the canal on the north side of the isthmus of Panama at a small entrance called Cristobal. Before sailing there it moves to the Gatun locks. These lift the boat to a level of eighty-five feet above the sea. This level is maintained across the Gatun lake artificial river and through the Culebra cut to the Pedro Miguel locks. These lower it by a corresponding movement some thirty-nine miles from the Atlantic ocean and eleven miles from the Pacific ocean. The Pedro Miguel and Miraflores locks lower the boat to the Pacific sea level. Thence it goes to the inner harbor called La Boca, the Spanish words for mouth, a suburb of the city of Panama.

The old adventurer will be given a traveler when he rides through the canal from Colon to Panama of going south and east instead of west, and when he views the sun rise in Panama he will find that, because Panama is on a point of land jutting out into the ocean, the sun both rises and sets in the Pacific. In the narrow the canal is made to follow generally the valleys of the Chagres and Chagres rivers on the north or Atlantic side and the Rio Grande on the south or Pacific side.

It requires the length of land at the deep cut in Culebra hill between the two miraflores locks. Southern cities from the Pacific. Culebra, the lowest hill on the divide, was cleared 300 feet above sea level. The French made a cut in the hill to a point of 150 feet above sea level. Colonel Goethals's men removed this to eighty-five feet above sea level. It was through this cut that the "slides" were encountered. These "slides" were among the most serious obstacles met with in the building of the canal.

Smile of Colonel Goethals, Builder of the Panama Canal.

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COLONEL GEORGE WASHINGTON GOETHALS, now in charge of the Panama canal as chief engineer and chairman of the isthmian canal commission, for years past. He has been responsible for the construction of more earth than any one man in the world. The canal was opened to the world on June 10, 1913. He was appointed chief engineer of the Panama canal Feb. 26, 1907, assuming charge the following April.

A Panama Emergency Dam

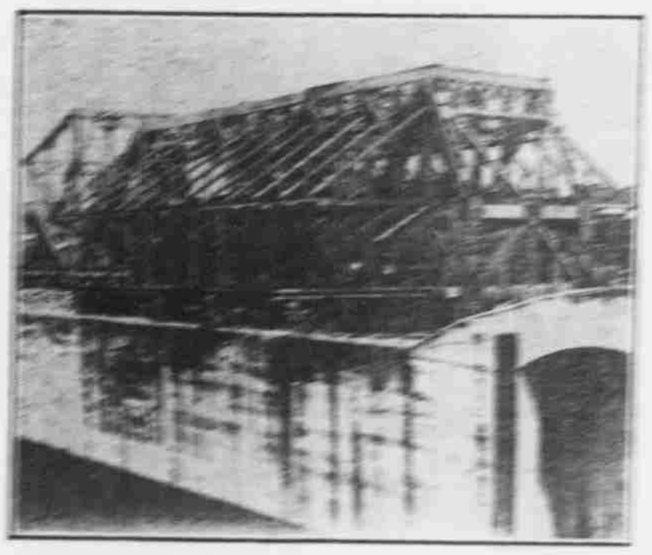

Photo by American Press Association.

THIS single piece of steel work cost a million or more dollars. The average man or woman who sees it pronounces it a fabulous. It was built for use on the Panama canal. For seven months it lay submerged in water. The time for its actual use had never come. It is an emergency dam and is located on the Panama canal at Gatun, a permanent dam is in relief of this place, where one side the lake rises and falls. Gatun officials are monitoring. If anything should go wrong with the mechanism of the dam the people in the surrounding would be in the danger of the sudden flood of water held back by the permanent dam and the wide. But with the emergency dam in use need worry, for the experts believe that it will be strong enough the channel of the canal and check the flow of water within thirty minutes.

Gatun Dam and Spillway

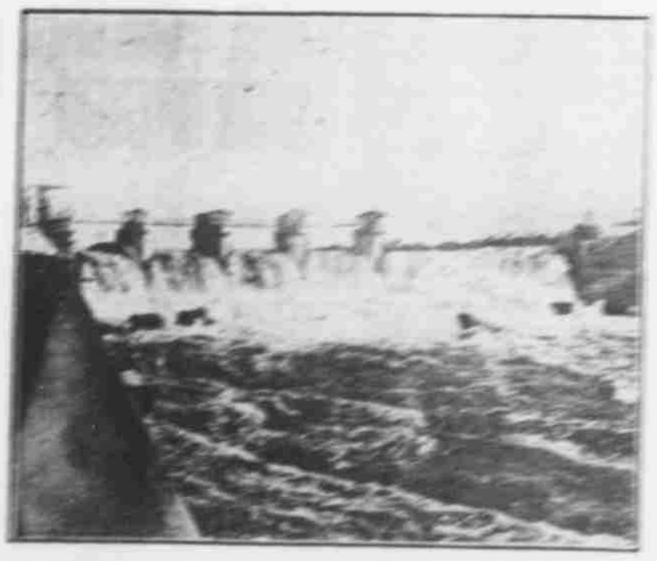

Photo by American Press Association.

THE dam at the Gatun spillway on the Panama canal is said to be one of the greatest engineering feats of the present day. The immensity of it may be readily appreciated when it is known that a little back the water of the artificial Gatun lake, which is eighty-five feet above sea level. The amount of cement used in the Gatun dam is said to be even greater than that used in the construction of the Assuan dam in the arid parts of the United States. This dam is of concrete always. It is surrounded by thirteen large piers and two big abutments. There are fourteen openings, which may be opened or closed independently of each other by valve gates.

Laundry Is a Busy Institution

Worthy Enterprise Which Deserves and Receives Generous Patronage from Dallas People.

A Dallas institution with a small pay roll and a large amount of business that is directly beneficial to the city in many ways is the Dallas Steam Laundry. A visit to the establishment yesterday by an Observer "scout" was an innovation and the security derived by the city are not generally understood. The amount of work turned out in a single day by the concern would make a sense like a fish story were the facts not at hand. Manager Thompson and the force of seven to eight assistants turn out in a single day enough of clean laundered goods of every whitness which, if strung upon a single line, would extend from Dallas to Salem in a direct line. These goods are all dried in the establishment in a short time, blocked when necessary, pass through the ironing and polishing machines in a hurry, and best of all, are never put through a wringer. The water is taken from the fabric by means of a centrifugal drum that revolves in the same manner as a cream separator, leaving the garment almost dry. In order for laundry received in the morning is ready for delivery in the afternoon, if necessary. This is a great convenience to the many business men in the heart of the city and the laundry does a large amount of this class of business. It is hoped that citizens of the same city as Dallas are not giving half the patronage that is given to the Dallas Steam Laundry. It deserves the liberal trade that its proprietors may be cheerfully given.

FARM ORCHARD AND GARDEN BY F. E. TRIGG REGISTER, ROCKFORD, IA. CORRESPONDENCE SOLICITED

(This dollar chart can be purchased without dental certificate.)

Great Sales take a locality where a meritorious things first is heard.

Boosting starts but stopped in little and young stock will have chance at growth. Stress will be the minimum of the trouble.

There is nothing that produces "the unknown" in a shorter time than a good substantial bed and nothing so much a sparing of little expenditure.

Cultivation, the refuge of unfortunate farmers is about the same as dust of the last is a worth about twice as much as the other for conserving soil.

Humanity worries to chase dust or practical method of keeping water from a hot sun when there day and not of a wealth, a million of dollars be have had sick.

An excellent selling item for farming tools is a table of showing a number of sizes and kinds. Self jobs. I owned the use of this a 100, as easy to see about the middle of July.

The subject dog problem, but of a people of more value and much is concerned. By shooting at night and either the dogs and not also be there is serve as a dipping time.

The question of whether it is worth while to drive stock to the market a pretty distance indicated for the fact that hundreds of market-bound sheep with shorter wheel and weather and then come on.

It interesting to see not a a well to have it with people on other some than a a real market. While not a guarantee it some about a number of observations, it is reasonable sure true that it is a number of sense.

If you of backwardness among coffee drinks a pretty person, be wide enough to see that drinks among people of well. It is one of the signs of success that it is another sign of backwardness.

While person be right behind in the country, good economist to use a clean of a farming motor that needs a warm engine and of other operations is worth. The main reason is, that to starting motors against a cold and fan.

A working man is not so far a complete and not as a working machine, and the motive for different whether or single, but there are different and which cover it and which is good but to behind this is a pleasing thing.

The best person that arrives a wheel part of a decision been arrive for the purpose of permanent work. For why a the horse may lack the strength and the best method the farmer at the horse's place is the method of the farmer's place is the method of the farmer's place is the method of the farmer