DEPARTMENT OF COMMERCE.
U.S. COAST AND GEODETIC SURVEY
E. LESTER JONES, DIRECTOR.

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET No. 16

GUAYANILLA HARBOR, PORTO RICO.

S.S. RANGER.

G.C. MATTISON,
Chief of Party.

1927.
INTRODUCTION:

Instructions for this topography are contained in the second paragraph of the above letter. It was desired to survey the present conditions around Point Pepillo inasmuch as a comparison between Chart $928$ and a blueprint forwarded to the office by the Texas Company showed differences in that vicinity. Upon arriving at the working grounds it was noted that changes other than at Point Pepillo had occurred, so a resurvey was made of the entire shoreline that differed from the previous survey. An effort was made to complete the work on March 31, 1928 when the RANGER was supervising drag work in that vicinity. A little additional work was necessary, however, and this was done on May 5th, 1927, from a shore party at Ponce, P.R.

METHOD:

The usual plane-table and stadia method was used in making this survey. Only one triangulation station was recovered and it was impracticable to spend time searching for others. In accordance, therefore, with paragraph 10, Instructions dated February 28, 1927, the survey was tied in with the unchanged shoreline of the previous survey. As it was not practicable to use the recovered triangulation station and as no definite point could be identified, a traverse was run using no control. This is shown on an inset on the topographic sheet. Cuts were taken to a tall black chimney which was located from the nearby remains of a former chimney whose position had been determined by triangulation in 1900. The recovered station is named "S.H. CHY" on Trujillo Plantation.

After completing the survey shown on the inset, the work was transferred to the projection by tying in the eastern limit to the fast shoreline and the western limit to the fast shoreline and the chimney above referred to, cuts having been taken to the latter from various setups.

GENERAL:

Improvements around Point Pepillo are the most important changes on the sheet. There are two small docks further in the bight, the easternmost one being a concrete boat landing with pipe lines leading from the molasses tanks shown on the topographic sheet. The westernmost one is used for loading sugar lighters.
A narrow gauge railway runs down to this dock. Neither of these small docks have sufficient water for boats other than launches or shallow draft lighters.

The mouth of the Guayanilla River has shifted somewhat. Unimportant changes such as shacks etc., were not deemed worth while to expend time on.

A list of plane-table positions of recoverable objects accompany this report.

The tanks at Point Pepillo stand out prominently. The molasses tanks and flag-pole near the schoolhouse are good landmarks for boats anchored close in. The form "Landmarks for Charts", containing these objects is submitted with this report.

Respectfully submitted,

[Signature]

Approved,

[Signature]

R.P.A. STUDER,
Jr. H. & G. Engineer,
Topographer.
<table>
<thead>
<tr>
<th>Object and Description</th>
<th>Lat.</th>
<th>D.M.</th>
<th>Long.</th>
<th>D.P.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black stack</td>
<td>18 00</td>
<td>253</td>
<td>66 45</td>
<td>1361</td>
<td>On building at Texas Co. Plant.</td>
</tr>
<tr>
<td>Small tank</td>
<td>18 00</td>
<td>257</td>
<td>66 45</td>
<td>1338</td>
<td>On bluff, Pt. Pepillo</td>
</tr>
<tr>
<td>Derrick</td>
<td>18 00</td>
<td>755</td>
<td>66 46</td>
<td>665</td>
<td>On end of sugar dock</td>
</tr>
<tr>
<td>Flag-pole</td>
<td>18 00</td>
<td>906</td>
<td>66 46</td>
<td>608</td>
<td>Near schoolhouse on beach.</td>
</tr>
<tr>
<td>Château</td>
<td>18 00</td>
<td>1276</td>
<td>66 47</td>
<td>1148</td>
<td>Tall black, at Trujillo Sugar Plantation Central.</td>
</tr>
</tbody>
</table>
Area surveyed — — — — — — — — — — — 1.0 sq. mile
Miles shoreline — — — — — — — — — 2.3 stat. miles.
Roads, Railroads, etc. — — — — — 0.8 stat. miles.
LANDMARKS FOR CHARTS

Cape May, N.J.

October 19, 1927

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D. M. meters</td>
<td>D. P. Meters</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Stack</td>
<td>18 00</td>
<td>255</td>
<td>66 46</td>
<td>1361</td>
<td>PT. 928</td>
</tr>
<tr>
<td>Tank, Pt. Popillo</td>
<td>16 00</td>
<td>345</td>
<td>66 45</td>
<td>1241</td>
<td>* * 902,928</td>
</tr>
<tr>
<td></td>
<td>18 00</td>
<td>330</td>
<td>66 45</td>
<td>1308</td>
<td>* * 902,928</td>
</tr>
<tr>
<td>Tank (Molasses)</td>
<td>16 00</td>
<td>966</td>
<td>66 45</td>
<td>1508</td>
<td>* * 902,928</td>
</tr>
<tr>
<td>Tank (Molasses)</td>
<td>18 00</td>
<td>1120</td>
<td>66 45</td>
<td>1700</td>
<td>* * 902,928</td>
</tr>
<tr>
<td>Flag-pole</td>
<td>16 00</td>
<td>906</td>
<td>66 46</td>
<td>609</td>
<td>* * 929</td>
</tr>
<tr>
<td>Chimney (Fall black)</td>
<td>10 00</td>
<td>1276</td>
<td>66 47</td>
<td>1149</td>
<td>* * 902,928</td>
</tr>
</tbody>
</table>

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 16

REGISTER NO. 4280

State: Porto Rico
General locality: South coast
Locality: Guayanilla Harbor
Scale: 1/10,000  Date of survey: Mar. 31, May 5, 1927
Vessel: Ranger
Chief of Party: G. C. Wattison
Surveyed by: R. F. A. Studs
Inked by: R. F. A. Studs
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval
Instructions dated: December 3D, 1927
Remarks: 