### DESCRIPTIVE REPORT

**Type of Survey**
- PHOTOGRAPHEOMETRIC-SHORELINE

**Field No.** Ph-14(46)  **Office No.** T-8947

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### LOCALITY

**State**
- TEXAS

**General locality**
- GULF INTRACOASTAL WATERWAY

**Locality**
- CARANCAHA POINT

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**1947**

**CHIEF OF PARTY**
- T. R. Reed, Baltimore Photogeodetic Office

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**LIBRARY & ARCHIVES**

**DATE**
- February 12, 1952
DATA RECORD

T - 8947

Project No. (II): PH-14(46) Quadrangle Name (IV):

Field Office (II): Port Lavaca, Texas. Chief of Party: Ross A. Gilmore

Photogrammetric Office (III): Baltimore, Md. Officer-In-Charge: Thos. B. Reed

Instructions dated (II) (III): (no date); Supplement 1, 22 July 1947 Letters dated 5 June 1947 and 29 July 1947, and 4 February 1949 Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): \textcolor{red}{2-25-49} Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): \textcolor{red}{12 Dec. 1947}

Publication Scale (IV):

Geographic Datum (III): N.A. 1927 Publication date (IV):

Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (26) refer to mean high water
Elevations shown as (26) refer to sounding datum
I.e., mean low water or mean lower lower water

Reference Station (III): KABANKA, 1933

Lat.: 29° 14' 17.247" (531.0m) Long.: 95° 01' 09.357" (252.7m) Adjusted

Plane Coordinates (IV):

\begin{align*}
Y &= 532,369.80 \\
X &= 3,269,214.91 \quad (p = 40)
\end{align*}

State: Texas Zone: S. Central

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)
(ii) (iii)

SHORELINE
Camera (kind or source) (III): U.S.C. & G.S. Nine lens camera, focal length 8½".

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>18405</td>
<td>11-21-46</td>
<td>14:24</td>
<td>1:10,000</td>
<td>0.1' above MLW</td>
</tr>
<tr>
<td>18406</td>
<td>11-21-46</td>
<td>14:25</td>
<td></td>
<td>0.1'</td>
</tr>
</tbody>
</table>

Tide (III)

Reference Station: Galveston
Subordinate Station: Carancahua Reef, West Bay

Ratio of Ranges

<table>
<thead>
<tr>
<th></th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Ratio of Ranges</td>
<td>0.7</td>
<td>0.7</td>
</tr>
</tbody>
</table>

Washington Office Review by (IV): [Signature]
Date: [Date]

Final Drafting by (IV): [Signature] Baltimore Office
Date: [Date]

Drafting verified for reproduction by (IV): [Signature] [Signature]
Date: [Date]

Proof Edit by (IV): [Signature]
Date: [Date]

Land Area (Sq. Statute Miles) (III): 2
Shoreline (More than 200 meters to opposite shore) (III): 5
Shoreline (Less than 200 meters to opposite shore) (III): 8
Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 6
Recovered: 3
Identified: 3

Number of BMs searched for (II):
Recovered: 3
Identified: 3

Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:
Summary to Accompany T-8947

Shoreline survey T-8947, scale 1:10,000, (Lat. 29°10' to 16', Long. 95°00' to 95°04') is one of 76 maps in project Ph-14(46), Intracoastal Waterway, which consists of four parts. This project was planned to furnish data for a new series of Inland Waterway charts at 1:40,000 scale.

T-8947 is one of the Part III group which consists of 16 maps (T-8935 to T-8950, inclusive), vicinity of Galveston.
For field data covering this area, refer to "Special Report, PH-11(46), Intracoastal Waterway, Port Arthur, Texas, to Cedar Lake, Texas", submitted by Ross A. Gilmore, dated January 1948.

Chart letter No. 84(1948). Filed in Nautical Charts Branch, Division of Charts.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR ( \phi )-COORDINATE</th>
<th>LONGITUDE OR ( \lambda )-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS (FORWARD)</th>
<th>DATEUM CORRECTION</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (FORWARD)</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (FORWARD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1933</td>
<td>G-2122</td>
<td>N.A. 1927</td>
<td>29 12</td>
<td>19.870</td>
<td>611.7</td>
<td>1235.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEST BAY, BN.No. 33, 1933</td>
<td>G-2122 Pg. 39</td>
<td>N.A. 1927</td>
<td>95 00</td>
<td>54.897</td>
<td>1483.0</td>
<td>197.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEST BAY BEACON NO. 33, 1933</td>
<td>G-2122 Pg. 39</td>
<td>N.A. 1927</td>
<td>29 12</td>
<td>59.496</td>
<td>1331.8</td>
<td>15.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KARANKA, 1933</td>
<td>G-2122 Pg. 29</td>
<td>N.A. 1927</td>
<td>94 59</td>
<td>52.864</td>
<td>1616.9</td>
<td>3.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEST BAY, beacon No. 2, 1933</td>
<td>G-2122 Pg. 39</td>
<td>N.A. 1927</td>
<td>29 18</td>
<td>59.648</td>
<td>1836.4</td>
<td>10.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEST BAY, beacon No. 4, 1933</td>
<td>G-2122 Pg. 40</td>
<td>N.A. 1927</td>
<td>95 00</td>
<td>02.834</td>
<td>632.4</td>
<td>1557.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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*This station listed & computed by M.P.Kirk 9 May 1949.

**These stations computed by G. B. Willey and checked by S.G.Blankenbaker on 31 March 1950.

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1 FT. = 0.0304806 METER

COMPUTED BY: U.H.Neick  DATE: 4-8-48

CHECKED BY: Wm. J. Hughes  DATE: 4-11-49

M-2366-12

31. DELINEATION

The delineation of Survey No. T-8947 manuscript was accomplished by graphic methods. Features on the SE shore of West Bay were not delineated due to lack of photographic coverage.

32. CONTROL

Refer to the photogrammetric plot report regarding distribution and adequacy of control.

33. SUPPLEMENTAL DATA

Kanankawa quadrangle, compiled by the War Department, Corps of Engineers, U. S. Army edition of 1943 (Geographic Names Standard)

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

The outline of the shallow areas was delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

No comment

37. LANDMARKS AND AIDS

Refer to forms 567 submitted with this report and with the field report.
38. CONTROL FOR FUTURE SURVEYS

Two forms 524 were submitted for Survey T-8947. See 49, following.

39. JUNCTIONS

Junctions were made to the NE with Survey T-8946 and with Survey T-8948 to the SW and are in good agreement. There are no contemporary surveys to the north or south.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

46. COMPARISON WITH EXISTING MAPS

Survey T-8947 has been compared with War Department Corps of Engineers U.S. Army Karkankawa Lake Quadrangle, scale 1:25,000, edition of 1943. Survey T-8947 has been compared with Survey No. T-4852(1933) of this Bureau.

47. COMPARISON WITH NAUTICAL CHARTS

Survey T-8947 has been compared with U. S. Coast and Geodetic Survey Chart No. 1282, scale 1:80,000, published at Washington, D. C. Feb. 1945 (16th edition) and corrected to April 11, 1949.

Items to be applied to Nautical Charts Immediately:

None.

Items to be carried forward:

"Pipe" in West Bay at Lat. 29° 11' 55"; long. 95° 02'.

Respectfully submitted
5 July 1949

Judson Cowell
Cartographic Draftsman

Approved and forwarded
26 July 1949

[Signature]
Officer in Charge
Baltimore Photogrammetric Office
West Bay Channel Daybeacon No. 2 and No. 4 were listed on Form 567 as being located by radial plot. The positions agree with the positions of triangulation stations West Bay, beacon No. 2 and beacon No. 4, 1933. As there is no record of these daybeacons having been moved since 1933, their triangulation positions were plotted on the manuscript, the positions added to form M-2386-12, and the method of location as shown on form 567 was changed to "Triangulation". The Nautical Chart Branch has been notified of this change.

L. C. Landé, Chief
Graphic Compilation Section
Division of Photogrammetry

31 March 1950
49. NOTES FOR THE HYDROGRAPHER

The following are the two recoverable photo stations established on this survey:

MON. 523 (USE) 1947
MON. 532 (USE) 1947
PHOTOGRAMMETRIC OFFICE REVIEW

T-8947


CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy       6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) 7. Photo hydro stations                        8. Bench marks


ALONGSHORE AREAS

(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines                                         32. Public land lines                           33. Geographic names                          34. Junctions                                 35. Legibility of the manuscript              36. Dispersion overlay


Joseph W. Lobeck

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler                                                Supervisor

43. Remarks:
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

Joseph W. Vonasek

Thos. B. Reed  
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>POSITION</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>WEST BAY CHANNEL</td>
<td>887 Engle</td>
<td>29 12</td>
<td>18 36</td>
<td>95 00</td>
<td>63</td>
</tr>
<tr>
<td>#</td>
<td></td>
<td></td>
<td>866 Sd.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>#</td>
<td></td>
<td></td>
<td>887 Engle</td>
<td>29 12</td>
<td>11 97</td>
<td>95 00</td>
<td>833</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
48. GEOGRAPHIC NAME LIST

- Big Marsh
- Carancahua Bayou
- Carancahua Point
- Carancahua Reef
- Carancahua Lighthouse
- Intracoastal Waterway
- West Bay
- Texas

Carancahua is the form approved by the most recent O.S.B. S.H. decisions.

Names preceded by * are approved. 9-17-50

L. Heck
Review Report T-8947  
Shoreline Survey  
14 September 1950

62. Comparison with Registered Topographic Surveys.-

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-328</td>
<td>1:20,000</td>
<td>1851</td>
</tr>
<tr>
<td>T-374</td>
<td></td>
<td>1851</td>
</tr>
<tr>
<td>T-4852</td>
<td></td>
<td>1933</td>
</tr>
</tbody>
</table>

63. Comparison with Maps of Other Agencies.-

US E Karankawa Lake, Texas 1:25,000 1949 (1942 photos)
(Note: This edition is the same as the 1943 edition, except for marginal data revision and the addition of the Universal Mercator Grid).

64. Comparison with Contemporary Hydrographic Surveys.—None

65. Comparison with Nautical Charts.—

Though West Bay Channel Daybeacons Nos. 2, 4, 33 and 39 appear on T-8947 (Oct. 1947) as lights, they are now charted as "piles", in compliance with the Hydrographic Office Notes to Mariners No. 36, 1949 and entered on the Standard Aug. 31, 1949. A "pipe" charted at 29° 11′ 17′′ 95° 02′ is not delineated on T-8947.

Changes made during review:

1. The inland detail has been extended inland a short distance in order to include the eastern shoreline of Carancahua Lake.
2. The fast land area south of Carancahua Point has been enlarged.

66. Accuracy.—(Refer to page three of the Radial Plot Report which is bound with Descriptive Report T-8945).

The map is adequate for charting purposes.

Reviewed by:

Lena T. Stevens

APPROVED

Chief, Division of Photogrammetry

Chief, Nautical Chart Branch

Chief, Division of Coastal Surveys
NAUTICAL CHARTS BRANCH

SURVEY NO. 1-847

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/24/50</td>
<td>886</td>
<td>A. Helmer</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>6-27-50</td>
<td>887</td>
<td>D.P. Engle</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>6/16/52</td>
<td>886</td>
<td>J. Walker</td>
<td>Before After Verification and Review</td>
</tr>
</tbody>
</table>

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.