# Descriptive Report

**Type of Survey:** Shoreline-Photogrammetric  

**Field No.:**  

**Office No.:** T-8948  

**Project No.:** PH-14(16)  

### Locality

- **State:** Texas  
- **General locality:** Gulf Intracoastal Waterway  
- **Locality:** Halls Lake  

- **1947**

### Chief of Party

Ross A. Gilmore, Chief of Field Party  
Thos. B. Reed, Baltimore Photo. Office

### Library & Archives

**Date:** December 19, 1957
DATA RECORD

T - 8948

Project No. (II): Ph-14(46)

Quadrangle Name (IV):

Field Office (II): Port Lavaca, Tex.

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

Letter 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): 3-7-47

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. 447/454 Date: July 7, 1950

Date registered (IV): 20 Nov. 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): M. H. W.

Mean sea level except as follows:

Elevations shown as (+) refer to mean high water
Elevations shown as (-) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): KARANKA, 1933

Lat.: 29° 14' 17.247" (531.0 m)

Long.: 95° 01' 09.357" (252.7 m)

Adjusted

Plane Coordinates (IV):

Y = 3,218,230.6

X = 2,152,244.91 (p. 70)

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
DATA RECORD

Field Inspection by (II): Charles H. Bishop
Date: 8-18-47 to 12-4-47

Planetable contouring by (II):
Date:

Completion Surveys by (II):
Date:

Mean High Water Location (III) (State date and method of location): 11-21-46
MHWL was indicated on field prints.

Projection and Grids ruled by (IV): W.E.W.
Date: 1-6-49

Projection and Grids checked by (IV): W.E.W.
Date: 1-6-49

Control plotted by (III):
J. Honick
M.F.Kirk
Date: 4-22-49 to 5-10-49

Control checked by (III):
M.F.Kirk
P.J.Tarcza
Date: 5-10-49 to 5-11-49

Radial Plotting (III):
Frank J. Tarcza
Date: 6-7-49

Stereoscopic Instrument compilation (III):
Planimetry
Contours
Date:

Manuscript delineated by (III): Judson Councill
Date: 7-5-49 to 7-20-49

Photogrammetric Office Review by (III): J. W. Vonasek
Date: 9-26-49 to 9-28-49

Elevations on Manuscript
checked by (II) (III):
Date:
<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>18402</td>
<td>11-21-46</td>
<td>2:22</td>
<td>1:10,000</td>
<td>0.1' above MLW</td>
</tr>
<tr>
<td>18403</td>
<td>n</td>
<td>2:23</td>
<td>n</td>
<td>0.0' above MLW</td>
</tr>
<tr>
<td>18404</td>
<td>n</td>
<td>2:24</td>
<td>n</td>
<td>0.1' above MLW</td>
</tr>
</tbody>
</table>

**Tide (III)**

Reference Station: Galveston, Galveston Channel
Subordinate Station: Carancahua Reef, West Bay
Subordinate Station: From predicted tide tables

Washington Office Review by (IV): [Signature]
Final Drafting by (IV): [Signature]
Drafting verified for reproduction by (IV): [Signature]
Proof Edit by (IV): [Signature]

<table>
<thead>
<tr>
<th>Ratio of</th>
<th>Mean</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ranges</td>
<td>Range</td>
<td>Range</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.4</td>
</tr>
<tr>
<td>0.7</td>
<td>0.7</td>
<td>0.9</td>
</tr>
</tbody>
</table>

Date: 9 Sept. 1950

Land Area (Sq. Statute Miles) (III): 3
Shoreline (More than 200 meters to opposite shore) (III): 13 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 7½ statute miles

Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 1
Number of BMs searched for (II): 1
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:
Since the only triangulation station within the limits of this manuscript was not recovered, triangulation station KARANKA, 1933, which falls on Survey No. T-8947 has been used as the reference station for this manuscript.
Summary to Accompany T-8948

Shoreline survey T-8948, scale 1:10,000, (Lat. 29° 08' to 14', Long. 95° 04' to 9') is one of 76 maps in project Ph-14(46), Intra-coastal 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-8948 is one of the Part III group which consists of 16 maps (T-8935 to T-8950, inclusive), vicinity of Galveston.
FIELD REPORT
Shoreline Manuscript T-3948

For field data covering Survey T-3948, refer to the Special Report for Project Mn-14(41), Locality of Port Arthur, Texas, to Cedar Lakes, Texas, submitted by Ross A. Gilmore, Chief of Party, January 23, 1948.

Chart Letter No. 84 (1948). Filed in the Nautical Chart Branch, Division of Charts.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GATOR, 1933</td>
<td>G-2122 Pg. 26</td>
<td>29 10</td>
<td>21.253</td>
<td>No recovery 1947</td>
<td>654.3 1192.9</td>
</tr>
<tr>
<td>CHOCOLATE BAY RANGE A REAR LT. 1947</td>
<td>Form 524</td>
<td>29 10</td>
<td>32.475</td>
<td>Related positions. See for Form 524 issued.</td>
<td>877.5 743.8</td>
</tr>
<tr>
<td>CHOCOLATE BAY RANGE A FRONT LT. 1947</td>
<td>Form 524</td>
<td>29 10</td>
<td>95 06</td>
<td>Related positions.</td>
<td>1171.8 675.4</td>
</tr>
</tbody>
</table>

1 FT. = 0.3048006 METER

COMPUTED BY: J. Honick

DATE: 4-14-49

CHECKED BY: Wm. J. Hughes

DATE: 4/15/49
Radial Plot Report for Surveys Nos. 3945 to T-3950 submitted by the Washington Office 22 June, 1949 is bound with the Descriptive Report for T-3945.
FIELD INSPECTION REPORT

For data covering the area of this survey refer to Special Report for Project Ph-14(46) Gulf Intracoastal Waterway, Fort Arthur, Texas, to Cedar Lakes, Texas, submitted by Ross A. Gilmore, January 1948.

PHOTOMETRIC PLOT REPORT


31. Delineation

The delineation of Survey No. T-8948 manuscript was accomplished by graphic methods.

The delineation of the shoreline at the mouth of Chocolate Bay was extended beyond the limits of the survey in order to make junction with Survey No. T-8949.

Chocolate Bay was not completely delineated due to lack of photograph coverage.

32. Control

Refer to the photogrammetric plot report regarding distribution and adequacy of control, and to Form W-2388-12 included in this descriptive report.

33. Supplemental Data

Data from Form 250 Field Observations, Vol. 5 of 5, were used to plot the locations of floating aids to navigation.

Planetable survey T-4852 (1933) with additions made by the field party in 1947 covers the area of this survey.

Quadrangles listed in paragraph 46 of this report were furnished as geographic name standards.

34. Contours and Drainage

Inapplicable.

35. Shoreline and Alongshore Details

The shoreline inspection was adequate.

The delineation of the shallow area along the West Bay Shoreline was accomplished after careful 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.

Refer to the radial plot report covering Chocolate Bay Range A Lights. Chocolate Bay Buoys were plotted by sextant fixes.

See Exhibit Report 63.

38. CONTROL FOR FUTURE SURVEYS

Chocolate Bay Range A Front and Rear lights were plotted on the manuscript from positions obtained by planetable methods. Forms 524 are submitted with this report for each of these stations. Forms 524 furnished by the field party as a recovery card, is also being submitted for BM 557 USE which has not been shown on the manuscript since it could not be found by the field inspection party.

The Chocolate Bay Range A lights are listed in paragraph 49.

39. JUNCTIONS

Junctions were made to the NE with Survey No. T-3947 and to the SW with Survey No. T-3949 and are in good agreement. There are no contemporary surveys to the north or south.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to "Adequacy of Control" paragraph in the radial plot report.

41 through 45

Inapplicable.
46. **COMPARISON WITH EXISTING MAPS**

Survey No. T-8948 has been compared with the following War Department Corps of Engineers, U. S. Army quadrangles:

Karankawa Lake, Texas, scale 1:25,000, edition of 1943.
Chocolate Bay, Texas, scale 1:25,000, edition of 1947.

This survey has also been compared with Survey No. T-4852 (1933) of this bureau.

47. **COMPARISON WITH NAUTICAL CHARTS**

Survey No. T-8948 has been compared with U. S. Coast and Geodetic Survey Chart No. 1282, scale 1:80,000, published at Washington, D. C. February 1945 (16th edition) and corrected to April 11, 1949.

**Items to be applied to nautical charts immediately**

None.

**Items to be carried forward**

None.

Respectfully submitted
1 September 1949

[Signature]
Cartographic Draftsman

Approved and forwarded
30 September 1949

[Signature]
Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric Office
The state grid should be shifted to the east about 2000 feet in the X direction. The grid ticks and intersections have to be ruled in black.

Planetary survey No. T-4852 (1933) was available to the compilation office in the form of a film negative. The additions or corrections made in 1947 have been left to be applied by the Washington Office.

Using the check angles on Chocolate Bay Buoys No. 10, 15, 16, and 19 the positions moved about 2 mm to the east. No explanation was found for these discrepancies. The original positions only are shown on the manuscript. See notes in blue by D. Engle on Form 567 which is a part of this report.
PHOTOGRAMMETRIC OFFICE REVIEW
T-8948

1. Projection and grids
2. Title
3. Manuscript numbers
4. Manuscript size

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
9. Plotting of sextant fixes
10. Photogrammetric plot report
11. Detail points

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline
13. Low-water line
14. Rocks, shoals, etc.
15. Bridges
16. Aids to navigation
17. Landmarks
18. Other alongshore physical features
19. Other alongshore cultural features

PHYSICAL FEATURES
20. Water features
21. Natural ground cover
22. Planetary contours
23. Stereoscopic instrument contours
24. Contours in general
25. Spot elevations
26. Other physical features

CULTURAL FEATURES
27. Roads
28. Buildings
29. Railroads
30. Other cultural features

BOUNDARIES
31. Boundary lines
32. Public land lines

MISCELLANEOUS
33. Geographic names
34. Junctions
35. Legibility of the manuscript
36. Discrepancy overlay
37. Descriptive Report
38. Field inspection photographs
39. Forms

Reviewer
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:
REMARKS

13. No information on the LWL was furnished.

15, 17, 27, 29, 30. There are none of these features in the area.

[Signature]

Joseph W. Vincz
Reviewer
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

Baltimore, Maryland
20 July 1947

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing by

Joseph W. Monasek

<table>
<thead>
<tr>
<th>STATE</th>
<th>TEXAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>CHOCOLATE BAY RANGE A REAR LT.</td>
<td>1947</td>
</tr>
<tr>
<td>No. 1</td>
<td>CHOCOLATE BAY EAST DUMP DAYBEACON</td>
</tr>
<tr>
<td>No. 2</td>
<td>CHOCOLATE BAY WEST DUMP DAYBEACON</td>
</tr>
<tr>
<td>No. 1</td>
<td>&quot;</td>
</tr>
<tr>
<td>No. 2</td>
<td>&quot;</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.
TO BE CHARTED

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing by

Joseph W. Vonasek

Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>TEXAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>1</td>
<td>Chocolate Bay Buey</td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></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.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated. The positions given have been checked after listing by Joseph T. Vose.

<table>
<thead>
<tr>
<th>STATE</th>
<th>TEXAS</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td></td>
<td>15</td>
<td>CHOCOLATE BAY BUOY</td>
<td></td>
<td>29 09</td>
<td>927</td>
<td>95 08</td>
<td>289</td>
<td>M.A.</td>
<td>Nov. 1947</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>16</td>
<td></td>
<td></td>
<td>29 09</td>
<td>968</td>
<td>95 08</td>
<td>375</td>
<td>T-6948</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td>17</td>
<td></td>
<td></td>
<td>29 09</td>
<td>699</td>
<td>95 08</td>
<td>661</td>
<td>T-6948</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>18</td>
<td></td>
<td></td>
<td>29 09</td>
<td>759</td>
<td>95 08</td>
<td>661</td>
<td>T-6948</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>19</td>
<td></td>
<td></td>
<td>29 09</td>
<td>482</td>
<td>95 08</td>
<td>1000</td>
<td>T-6948</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>20</td>
<td></td>
<td></td>
<td>29 09</td>
<td>535</td>
<td>95 08</td>
<td>1000</td>
<td>T-6948</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>21</td>
<td></td>
<td></td>
<td>29 09</td>
<td>258</td>
<td>95 08</td>
<td>1314</td>
<td>T-6948</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>22</td>
<td></td>
<td></td>
<td>29 09</td>
<td>300</td>
<td>95 08</td>
<td>1318</td>
<td>T-6948</td>
<td></td>
</tr>
</tbody>
</table>

* See "Notes To Reviewer" T-6948 Descriptive Report.

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.
49. GEORGRAPHIC NAMES

- Alligator Head
- Alligator Point
- Amarada Cut
- Big Marsh
- Chocolate Bay
- Cow Bayou
- Dicks Camp
- Halls Bayou
- Halls Lake
- Intracoastal Waterway
- Mosquito Lake
- New Bayou *
- New Bayou Point *
- Salt Bayou
- The Narrows
- West Bay
- Wharton Camp Bayou

* Marked "Pending with U.S.B.G.N.

Names underlined in red are approved
9-19-54 - R.E.C.A.
Review Report T-8948
Shoreline Survey
19 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-374</td>
<td>1:20,000</td>
<td>1851</td>
</tr>
<tr>
<td>T-4052</td>
<td>1:20,000</td>
<td>1933</td>
</tr>
</tbody>
</table>

These surveys are superseded by T-8948 for nautical charting purposes.

63. Comparison with Maps of Other Agencies. -

U.S.E. Karankawa Lake, Texas 1:25,000 1949 (1942 photos)
U.S.E. Chocolate Bay, Texas 1:31,680 1943 (1942 photos)

64. Comparison with Contemporary Hydrographic Surveys. - None

65. Comparison with Nautical Charts. -

1282 1:80,000 Ed. Feb., 1945, Rev. Mar., 1950

Spoil banks north of Chocolate Bay Range are not delineated on the chart but their presence is noted by the words "spoil area".

The radial plot position for Chocolate Bay Range A, Rear light was retained on the manuscript, and the planetable point removed. The Light Lists record an 835-yard distance between the lights and a 55° range angle. The lights on T-8948 are 925 yards apart and the range angle is 55° 21'.

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

S. J. Griffith
Chief, Review Section
Div. of Photogrammetry

W. C. Hoagland
Chief, Nautical Chart Branch
Division of Charts

E. D. Reading
Chief, Div. of Photogrammetry

W. M. Scarfe
Chief, Div. of Coastal Surveys
NOTES FOR the HYDROGRAPHER

The following are the recoverable topographic stations on Survey No. T-8948.

Chocolate Bay Range A Front Lt., 1947
Chocolate Bay Range A Rear Lt., 1947
## NAUTICAL CHARTS BRANCH

SURVEY NO. **8948**

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>7-7-50</td>
<td>887</td>
<td>DR Engle</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></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.