

8946

Diag. Cht. No. 1282

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photogrammetric Shoreline

Field No. PH-14(46) Office No. T-8946

LOCALITY

State Texas

General locality Intracoastal Waterway

Locality Carancahua Bayou to Basford Bayou

1947

CHIEF OF PARTY

Ross A. Gilmore, Chief of Field Party

Thos. B. Reed, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE October 27, 1952

B-1870-1 (1)

8946

DATA RECORD

T - 8946

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): Not dated  
Letter 711-rs 4 Feb. 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): 7-25-49 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 20 Aug. 1952

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III):

Mean sea level except as follows: ~~MSE~~ <sup>High Water</sup>  
Elevations shown as (25) refer to mean high water  
Elevations shown as (5) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): HITCHCOCK, 1933

Lat.: 29° 16' 52.589" (1619.1)m      Long.: 94° 58' 30.127" (813.2)m

Adjusted  
Unadjusted

Plane Coordinates (IV):

State: Texas

Zone: South Central

Y = 548,532.09

X = 3,282,802.29

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.



DATA RECORD

Field Inspection by (II): C.H.Bishop  
H.A.Duffy

Date: Oct. 1947  
Jan. 1948

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): Same as date of photographs, supplemented by field inspection. Located by field identification supplemented by office inspection.

Projection and Grids ruled by (IV): W.L.W.

Date: 1/6/49

Projection and Grids checked by (IV): W.L.W.

Date: 1/6/49

Control plotted by (III): M.F. Kirk

Date: 5/11/49

Control checked by (III): F.J.Tarcza

Date: 5/11/49

Radial Plot or Stereoscopic F.J.Tarcza  
Control extension by (III):

Date: 5/18/49

Stereoscopic Instrument compilation (III):

Date:

Planimetry

Contours

Date:

Manuscript delineated by (III): M.L.Rosenberg

Date: 6/23/49 to 7/7/49

Photogrammetric Office Review by (III): R. Glaser

Date: 7/8 to 7/11/49  
7/15 to 7/18/49

Elevations on Manuscript  
checked by (II) (III):

Date:

Camera (kind or source) (III): U. S. Coast and Geodetic Survey  
 Nine-lens, 8 $\frac{1}{4}$ " focal length

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
18406	11/21/46	2:25	1:10,000	(
18407	"	2:26	"	(
18408	"	2:27	"	(0.1 ft. above MLW
18409	"	2:28	"	(
18410	"	---	---	(
18411	"	2:38	---	(

Tide (III)

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

Ratio of Ranges	Mean Range	Spring Range
0.7	0.7	

Washington Office Review by (IV): *Lena J. Stevens*

Date: 6 Sept. 1950

Final Drafting by (IV): *Baltimore Office*

Date:

Drafting verified for reproduction by (IV): *Breene W. Steigler*

Date: 5/15/51

Proof Edit by (IV): *W. Steigler*

Date: 8/27 51

Land Area (Sq. Statute Miles) (III): 2

Shoreline (More than 200 meters to opposite shore) (II): 8 statute miles

Shoreline (Less than 200 meters to opposite shore) (II): 5 statute miles

Control Leveling - Miles (II):

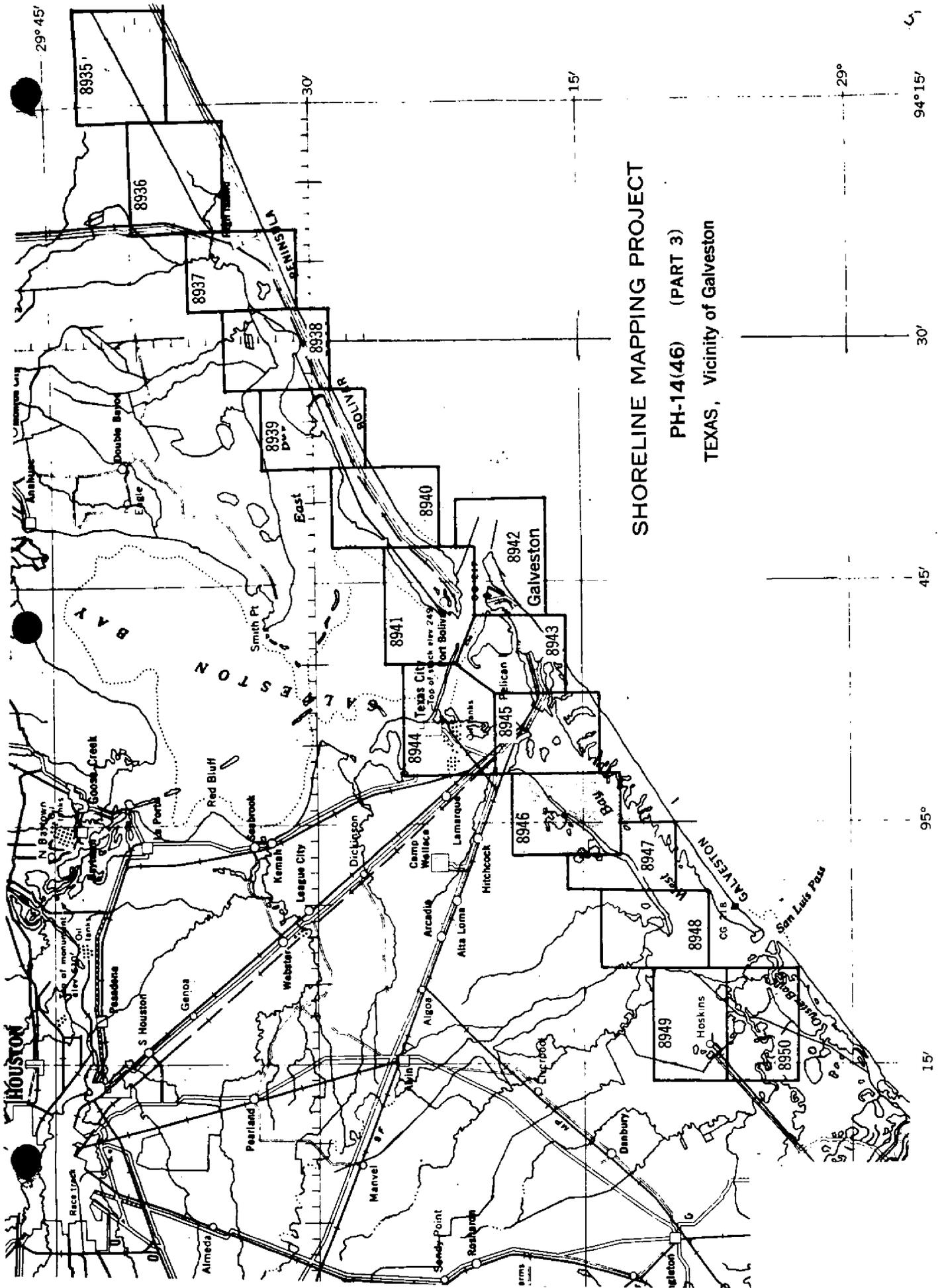
Number of Triangulation Stations searched for (II): 6 Recovered: 6 Identified: 1

Number of BMs searched for (II): none Recovered: Identified:

Number of Recoverable Photo Stations established (III): one

Number of Temporary Photo Hydro Stations established (III): none

Remarks:



Summary to Accompany T-8946

Shoreline survey T-8946, scale 1:10,000 (Lat.  $29^{\circ}13'$  to  $19'$ , Long.  $94^{\circ}57'$  to  $95^{\circ}01'$ ) 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-8946 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

Survey No. T-8946

For field data covering this survey refer to the Special Report for Project PH-14(46)-Gulf Intracoastal Waterway, Port Arthur to Cedar Lakes, Texas. This report was submitted by Ross A. Gilmore and dated January 1948. *It is*

*Chart Letter No. 84 (1948). Filed in Nautical Chart Branch, Division of Charts.*



COMPILATION REPORT - T-8946

This manuscript is one of a series of surveys in Project No. PH-14(46) and covers the area along the Intracoastal Waterway between Carancahua Bayou and Basford Bayou.

PHOTOGRAMMETRIC PLOT REPORT

Refer to radial plot report for Surveys T-8945 through T-8950 submitted by Frank J. Tarcza, dated 22 June 1949. *Bound with Descriptive Report T-8945*

31. DELINEATION

The manuscript was delineated by graphic methods only.

The field inspection is considered generally satisfactory; however, in some areas where there was no field inspection, there was some doubt as to the difference between marsh land and firm ground. This in turn created a doubt as to whether the shoreline was a MHWL or an apparent shoreline. Delineation was completed after careful examination of the photographs.

The southeastern corner of the survey covering a small island, a small part of Galveston Island and Hoeckers Point has not been delineated on the manuscript because there was no photograph coverage of this area.

32. CONTROL

The horizontal control for this survey is adequately discussed in the Photogrammetric plot report referred to above.

33. SUPPLEMENTAL DATA

1. Field Observations, Vol. 4 of 5 vols., Sextant Fixes, was used to determine the locations of all floating aids and five non-floating aids.
2. Geographic Name Standards dated 15 July 1949 were furnished by the Washington Office.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection is considered generally adequate except as noted in paragraph 31.

Low water lines, a small shoal area and the limits of shallow areas were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

No comment

37. LANDMARKS AND AIDS

Form 567 for the West Bay Channel Daybeacons number 21, 23, 25, 27 and 29 have been submitted by Ross A. Gilmore in January 1948. The geographic positions reported for these daybeacons are as of the 1933 triangulation. This same group of daybeacons were also cut in by sextant fixes and found to be consistently in disagreement with the triangulation positions. No evidence could be found that these daybeacons have been rebuilt since 1933; their sextant fix positions reported on Form 567 are attached to this report.

Form 567 for Galveston-Freeport Buoys number 101 through 110 are also attached to this report.

38. CONTROL FOR FUTURE SURVEYS

Form 524 for MON. 506 (U.S.E.) 1947 is submitted with this report and the station is also listed in paragraph 49, NOTES FOR THE HYDROGRAPHER.

39. JUNCTIONS

Junction to the east with Survey No. T-8945 and to the west with Survey No. T-8947 have been made and are in agreement. There are no contemporary surveys to the north and to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. Through 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

The manuscript covers an area found in part on the following War Department Corps of Engineers quadrangles, scale 1:25,000, edition of 1943:

Hitchcock, Texas.

Virginia Point, Texas

(Carancahua) Karankawa Lake, Texas. BGN/1940 SW

No major differences between the manuscript and the above quadrangles were noted.

47. COMPARISON WITH NAUTICAL CHARTS

The manuscript and chart No. 1282, scale 1:80,000, edition of 1945, corrected to 18 July 1949, were in good agreement.

Items to be applied to nautical charts immediately:

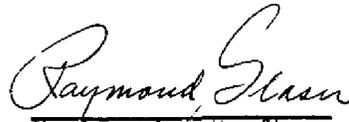
None.

Items to be carried forward:

Ruins, north of Galveston Freeport Range  
Pipe, east of Entrance to Greens Lake  
Pipe, northeast of Caranahua Reef

These items are not shown on the manuscript, but are believed to still exist and should be carried forward on the chart.

Respectfully submitted  
21 July 1949

  
Engineering Draftsman

Approved and forwarded  
27 July 1949

  
\_\_\_\_\_  
Officer in Charge  
Baltimore Photogrammetric Office



T-8946

West Bay Channel Daybeacons No. 21, 23, 25, 27, and 29 were replotted in this office with a recently calibrated three-arm protractor. The positions obtained were in agreement with the triangulation positions of these daybeacons within the accuracy of the sextant and radial plot method of location. As there is no record of these daybeacons having been moved since the 1933 triangulation positions were obtained, the triangulation positions have been accepted as being correct. The sextant fix positions have been removed from the manuscript, form 567 has been corrected to show the triangulation positions of these daybeacons, and the Nautical Chart Branch has been notified of this change.

*See Review Report, 65, par. 3.*

*L.C. Lande*

\_\_\_\_\_  
L.C. Lande, Chief  
Graphic Compilation Section  
Division of Photogrammetry

*km* 31 March 1950

50. PHOTOGRAMMETRIC OFFICE REVIEW

T-8946

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

CONTROL STATIONS

- 5. Horizontal control stations of third-order or higher accuracy B
- 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) B
- 7. Photo hydro stations \_\_\_\_\_
- 8. Bench marks \_\_\_\_\_
- 9. Plotting of sextant fixes B
- 10. Photogrammetric plot report B
- 11. Detail points B

ALONGSHORE AREAS

(Nautical Chart Data)

- 12. Shoreline B
- 13. Low-water line B
- 14. Rocks, shoals, etc. B
- 15. Bridges \_\_\_\_\_
- 16. Aids to navigation B
- 17. Landmarks \_\_\_\_\_
- 18. Other alongshore physical features B
- 19. Other along-shore cultural features \_\_\_\_\_

PHYSICAL FEATURES

- 20. Water features B
- 21. Natural ground cover B
- 22. Planetable contours \_\_\_\_\_
- 23. Stereoscopic instrument contours \_\_\_\_\_
- 24. Contours in general \_\_\_\_\_
- 25. Spot elevations \_\_\_\_\_
- 26. Other physical features \_\_\_\_\_

CULTURAL FEATURES

- 27. Roads \_\_\_\_\_
- 28. Buildings B
- 29. Railroads \_\_\_\_\_
- 30. Other cultural features \_\_\_\_\_

BOUNDARIES

- 31. Boundary lines \_\_\_\_\_
- 32. Public land lines \_\_\_\_\_

MISCELLANEOUS

- 33. Geographic names B
- 34. Junctions B
- 35. Legibility of the manuscript B
- 36. Discrepancy overlay \_\_\_\_\_
- 37. Descriptive Report B
- 38. Field inspection photographs B
- 39. Forms B
- 40. Raymond Glasser Reviewer
- Joseph Steinberg Supervisor, Review Section of 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:

## PHOTOGRAMMETRIC OFFICE REVIEW

T - 8946

41-REMARKS

5. In lieu of Form 525, Pamphlet No. 871, U.S.C. & G.S. Descriptions of Triangulation Stations, Texas Coast, Part III, Galveston Bay to Matagorda Lighthouse, was furnished.

14. Chart section has not been prepared. The one item to be checked is mentioned in notes to hydrographer. *(See Reddy's Report, 65, par. 1.)*



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

**TO BE CHARTED**  
~~TO BE DELETED~~

STRIKE OUT ONE

Baltimore, Md.

22 July

1949

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 R. Glasser

Thos. H. Reed

Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE						
				°	'	°	'					
	BUOY 101	Galveston-Preport		29	17	94	57	163	N.A. 1927	Oct. 1947	X X	886 1282
	"	"		29	17	94	57	162	"	"	X X	"
	"	"		29	17	94	57	617	"	"	X X	"
	"	"		29	17	94	57	598	"	"	X X	"
	"	"		29	17	94	57	938	"	"	X X	"
	"	"		29	17	94	57	946	"	"	X X	"
	"	"		29	16	94	57	1335	"	"	X X	"
	"	"		29	16	94	57	1350	"	"	X X	"
	"	"		29	16	94	58	1527	"	"	X X	"
	"	"		29	16	94	58	1550	"	"	X X	"
	"	"							"			
	"	"										
	"	"										

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 NAMES

- ✓ • Basford Bayou
- ✓ • Big Marsh
- ✓ • Carancahua Bayou
- ✓ • Carancahua Reef
- \* • Hoeckers Cove
- \* • Hoeckers Point
- ✓ • Intracoastal Waterway
- \* • Galveston Island
- ✓ • Greens Lake
- ✓ • West Bay
- ✓ • Texas

(In 1940 BGNY revised its former decision of Karankawa to Carancahua for all features here and in Matagorda Bay area.) L.H.

Names are taken from geographic name standards<sup>d</sup> dated 15 July 1949.

\* These names do not appear on the manuscript; the features were not delineated because there was no photograph coverage of the area.

Names preceded by • are approved. 9-6-50. L. Heck-

Review Report T-8946  
Shoreline Survey  
6 September 1950

61. Comparison with Registered Topographic Surveys.-

T-328	1:20,000	1851
T-4852	"	1933
T-4867	"	1933

63. Comparison with Maps of Other Agencies.-

USE Hitchcock	1:25,000, 1949	(1942 photographs)
USE Virginia Point	"	"
USE Karankawa	"	"

(Note: These maps are 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.-

1282 1:80,000 ed. Feb. 1945 rev. Sept. 1948  
(see also 47 in Compilation Report)

An obstruction north of Beacon No. 19 is charted a "ruins". It is probably the same object that is mapped as a "submerged wreck, pipe (3)" on T-8946.

In the extreme southwestern part on T-8946 manuscript near Beacon 33, "Photo Pt. A" was circled. This point was also labeled "old light tower" by the field inspector on photograph 18406 (1946). It is a prominent object, but it does not appear on chart 1282, therefore, the omission has been called to the attention of the Nautical Chart Branch.

Few changes were made during review, the more noteworthy being some small stretches of fast land shoreline in the vicinity of Greens Lake and at Carancahua Bayou. The West Bay Channel Daybeacons listed on form 567 were changed to "piles" by H.O. Notice to Mariners 36. 1949 and noted on the standard as of Aug. 31, 1949.

66. Accuracy.-This compilation complies with project instructions and is adequate for charting purposes.

Reviewed by:

Lena T. Stevens  
Lena T. Stevens

Page 2  
T-8946

APPROVED:

*S. V. Gifford*  
\_\_\_\_\_  
Chief, Review Section  
Div. of Photogrammetry

8/26/52

*H. Edmonstone*  
\_\_\_\_\_  
Chief, Nautical Chart Branch  
Division of Charts

*O. S. Reading*  
\_\_\_\_\_  
Chief, Div. of Photogrammetry

*[Signature]*

*B. Hubbard*  
\_\_\_\_\_  
Chief, Div. of Coastal Surveys  
Acting

