

8948

Dist. Cht. No. 1282

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline-Photogrammetric

Field No. Office No. T-8948

Project No. PH-14(46)

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, 1951

8-1870-1 (1)

8948

DATA RECORD

T - 8948

Project No. (II):

Quadrangle Name (IV):

Ph-14(46)

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

Copy filed in Division of
Photogrammetry (IV)

Letter dated 5 June 1947

and 29 July 1947, and 4 February 1949

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): 10-3-49

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. 847 (before
redesign) Date: July 7, 1950

Date registered (IV): 20 Nov. 1951

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 (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): KARANKA, 1933

Lat.: 29° 14' 17.247" (531.0m)

Long.: 95° 01' 09.357" (252.7m)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State: Texas

Zone: S. Central

Y= 532,369.80

X= 3,269,244.91 (p. 40)

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
5-10-49

Control checked by (III): M.F.Kirk
P.J.Tarcza

Date: 5-10-49
5-11-49

Radial Plot ~~by Stereoscopic~~

~~Control extension by (III):~~

Frank J. Tarcza

Date: 6-7-49

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): Judson Council

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:

Camera (kind or source) (III): U.S.C. & G.S. 9 lens, focal length $8\frac{1}{4}$ "

Number	Date	PHOTOGRAPHS (III)			Stage of Tide
		Time	Scale		
18402	11-21-46	2:22	1:10,000	0.1' above MLW	
18403	"	2:23	"	0.0' above MLW	
18404	"	2:24	"	0.1' above MLW	

Tide (III)

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

Ratio of Ranges	Mean Range	Spring Range
1.0	1.0	1.4
0.7	0.7	0.9

Washington Office Review by (IV): *Anna T. Stevens*

Date: 19 Sept. 1950

Final Drafting by (IV): *Baltimore Office*

Date:

Drafting verified for reproduction by (IV): *B. Bruce Striffler*

Date: 5/11/51

Proof Edit by (IV): *Striffler*

Date: 7/19 51

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): $7\frac{1}{2}$ statute miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):	1	Recovered:	0	Identified:	0
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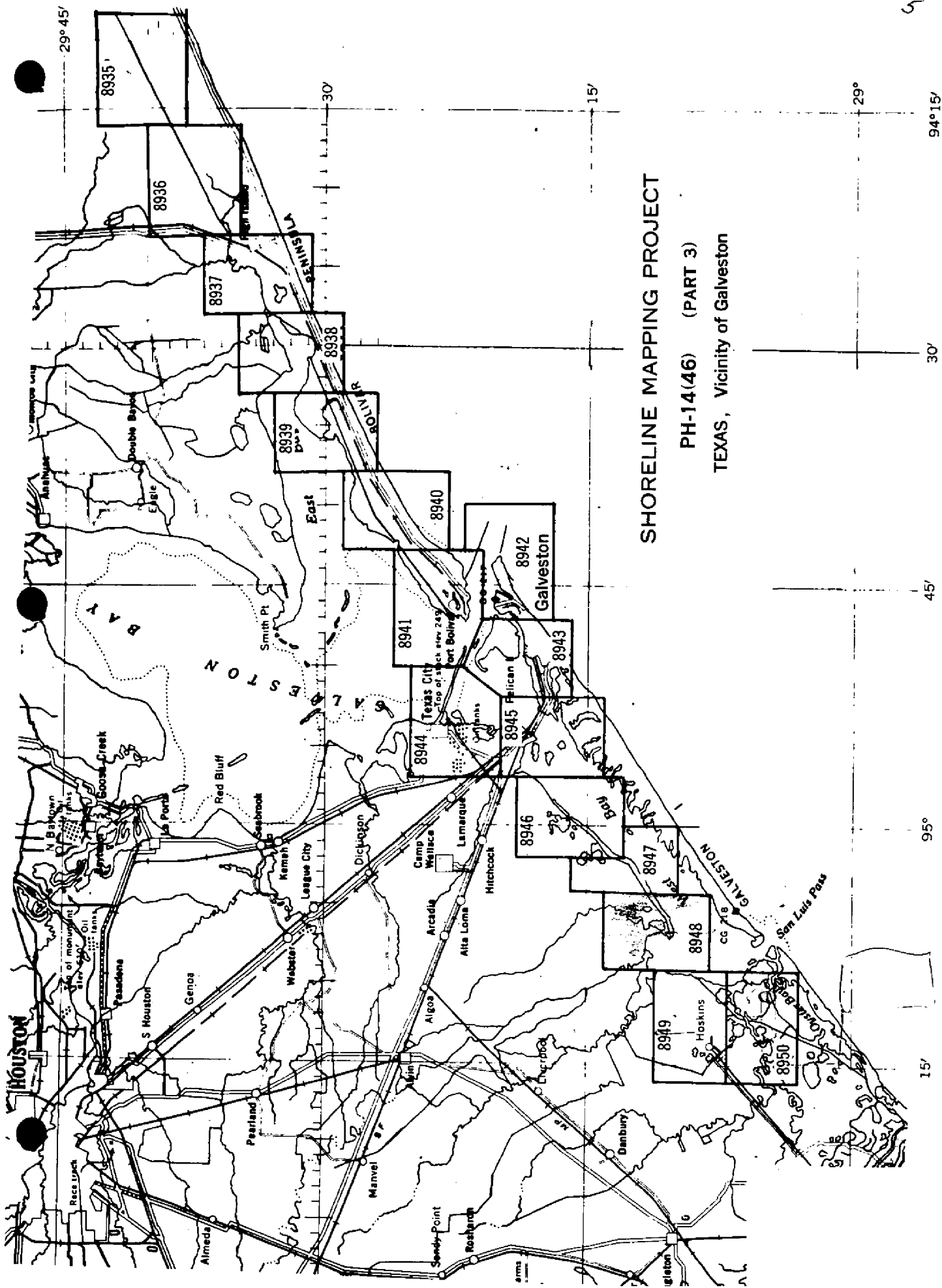
Number of BMs searched for (II):	1	Recovered:	0	Identified:	0
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Number of Recoverable Photo Stations established (III): 2

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-8948

For field data covering Survey T-8948, refer to the Special Report for Project Ph-14(46), 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.

SCALE FACTOR.....None

SCALE FACTOR.....None

SCALE FACTOR.....None

[illegible]

DATE 4/15/49

M-2388-12

RADIAL PLOT REPORT, T-3948

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.

"

COMPILATION REPORT T-8948FIELD INSPECTION REPORT

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

PHOTOGRAMMETRIC PLOT REPORT

Refer to Radial Plot Report for Surveys Nos. T-8945 to T-8950 submitted to the Washington Office 22 June 1949.

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 M-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 Review Report, 65.

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 EM 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-8947 and to the SW with Survey No. T-8949 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

Judson Council
Cartographic Draftsman

Approved and forwarded
30 September 1949

Thos. B. Reed
Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric
Office

NOTES TO REVIEWER

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. ✓

Planetable 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 JW 2. Title JW 3. Manuscript numbers JW 4. Manuscript size JW

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads JW 28. Buildings JW 29. Railroads JW 30. Other cultural features JW

BOUNDARIES

31. Boundary lines JW 32. Public land lines JW

MISCELLANEOUS

33. Geographic names JW 34. Junctions JW 35. Legibility of the manuscript JW 36. Discrepancy overlay JW 37. Descriptive Report JW 38. Field inspection photographs JW 39. Forms JW 40. Joseph W. Vandenberg Joseph H. Hurlberg
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:

R E M A R K S

13. No information on the LWL was furnished.

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

Joseph W. Vonack
Reviewer

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS AND LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REPORTED~~

STRIKE OUT ONE

20 July 1949

Baltimore, Maryland

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

The positions given have been checked after listing by

Joseph W. Vonasek

Thos. B. 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	DATUM						
TEXAS	1	Chocolate Bay Buoy		29 10 517	95 06 1474	N.A. 1927		Sextant T-8948	Nov. 1947			887 1282
	2	"		29 10 560	95 06 1511	"		"	"			"
	3	"		29 10 410	95 07 6	"		"	"			"
	4	"		29 10 455	95 07 52	"		"	"			"
	5	"		29 10 160	95 07 378	"		"	"			"
	6	"		29 10 227	95 07 374	"		"	"			"
	7	"		29 09 1839	95 07 627	"		"	"			"
	8	"		29 10 24	95 07 672	"		"	"			"
	9	"		29 09 1585	95 07 996	"		"	"			"
	10	"		29 09 1627	95 07 1032	"		"	"			"
	11	"		29 09 1352	95 07 1325	"		"	"			"
	13	"		29 09 1156	95 07 1606	"		"	"			"
	14	"		29 09 1215	95 08 22	"		"	"			"

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.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Baltimore, Md.

20 July
XV
1949

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

The positions given have been checked after listing by

Joseph W. Vonasek

Chief of Party.

Thos. B. Reed

[illegible]

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

✓ 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
9-14-50. L. Heck.*

Review Report T-8948
Shoreline Survey
19 September 1950

62. Comparison with Registered Topographic Surveys.-

T-374	1:20,000	1851
T-4852	1:20,000	1933

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
Lena T. Stevens

APPROVED

S. V. Griffith
Chief, Review Section HRB. 11/29/51
Div. of Photogrammetry

H. B. Edmundson
Chief, Nautical Chart Branch
Division of Charts

J. S. Reading
Chief, Div. of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Surveys

49. 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

