

8944

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-8944

LOCALITY

State TEXAS

General locality INTRACOASTAL WATERWAY

Locality TEXAS CITY

1947

CHIEF OF PARTY

R. A. Gilmore, Chief of Field Party.

T. B. Reed, Baltimore Photo. Office.

LIBRARY & ARCHIVES

DATE February 12, 1952

DATA RECORD

T - 8944

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: 5 June and 29 July 1947
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): none

Date received in Washington Office (IV): 9-1-49

Date reported to Nautical Chart Branch (IV): 9-8-49

Applied to Chart No.

Date:

Date registered (IV): 13 Dec. 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): GIN, 1933 (T-4867) This is a Recon. Top. Sta. It falls on T-8945

Lat.: 29° 18' 15.655" (482.0m)

Long.: 94° 54' 0.592" (16.0m)

Adjusted
Unadjusted

Plane Coordinates (IV):

State: Texas

Zone: South Central

Y=

X=

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): HOWELL, REYNOLDS

Date: 18 August to
31 October 1947

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 11-21-1946

Located by field identification, supplemented by office inspection.

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

Date: 12-31-48

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

Date: 12-31-48

Control plotted by (III) WASHINGTON

Date:

Control checked by (III): WASHINGTON

Date:

Radial Plot or Stereoscopic
Control extension by (III):

L. MARTIN GAZIK

Date:

3-17-49

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III):

Ruth M. Whitson

Date: 6-21- to 6-23-49
and 7-12 to 7-29-49.

Photogrammetric Office Review by (III): R. Glaser

Date: 19 Aug 1949 to
26 Aug. 1949

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

Date:

U. S. C. & G. S. Survey nine lens camera focal length $8\frac{1}{4}$ "

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
18424 to 18426 inclusive	11-21-46	3:06	1:10,000	1.1 ft. above M.L.W

Supplemented by 1:5000 m. photographs
dated: May 2, 1947
time: (Low water photographs)

Army: 33 (VU 11PTU R175 311 RW) [Div. Photog. Accession No. 1919]
104
125

Tide (III)

Reference Station: Galveston, Texas
Subordinate Station: Galveston, Galveston Channel
Subordinate Station:

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

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

Date: *25 August, 1950*

Final Drafting by (IV): *Baltimore Office*

Date:

Drafting verified for reproduction by (IV): *Bacone*

Date: *5/16/51*

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

Date: *8/21/51*

Land Area (Sq. Statute Miles) (III): *3*

Shoreline (More than 200 meters to opposite shore) (III): *16.1*

Shoreline (Less than 200 meters to opposite shore) (III): *7*

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified: *7*

Number of BMs searched for (II): *0*

Recovered: *0*

Identified: *0*

Number of Recoverable Photo Stations established (III): *0*

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

Remarks:

Summary to Accompany T-8944

Shoreline survey T-8944, scale 1:10,000 (latitude 29°20' to 25', Long. 94°50' to 57') 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-8944 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-8944

For field data covering survey T-8944, refer to Special Report for Project Ph-14(46), Locality of Port Arthur, Texas to Cedar Lakes, Texas, submitted by Ross A. Gilmore, Chief of Party, (1947), January 28, 1948, *filed as,*

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

MAP T-8944

Listed days meter COMPUTED BY: R.M. Whitson	DATE 3 August 1949	CHECKED BY: H.R. Rudolph	DATE August 25 1949	M-2388-12
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COMPILATION REPORT, T-8944

The manuscript is one of several surveys in Project NO. PH-14(46) and covers that area of the Intracoastal Waterway at Texas City and its vicinity.

PHOTOGRAMMETRIC PLOT REPORT

Refer to Radial Plot Report for Surveys Nos. T-8938 to T-8944 submitted by the Washington Office, 17 March 1949.

Attached to Descriptive Report T-8938

FIELD REPORT

Refer to the Special Report for Project PH-14(46), Gulf Intracoastal Waterway, Port Arthur to Cedar Lakes, Texas, submitted by Ross A. Gilmore, January 1948. *Chart Letter No. 84 (1948)*

31. DELINEATION

Survey No. T-8944 was delineated by graphic methods.

There were only three (3) nine lens photographs on the entire manuscript, only two (2) of which reached the same points for any given area. Therefore, while the detail points lay well with the established control, the area is to be considered relatively weak. Approximately two (2) miles of shoreline comprising the southern area of this survey along Galveston Bay, Swan Lake and Campbell Bayou, could not be delineated as there is no photograph coverage.

The nine lens photographs were supplemented by 1:5000 scale (approx.) photographs dated May 2, 1947, which were used to delineate the devastated area at the Texas City Terminal.

32. CONTROL

In the "Notice to Mariners No. 19, dated 10 May 1947, the TEXAS CITY CHANNEL CUT 'B' INNER RANGE REAR BEACON, 1933, was reported destroyed. (See pamphlet No. 870, Supplement page 25, Texas Coast, Part 2, Galveston Bay). The new light, rebuilt in 1944, was identified by the field party and is radially plotted. The radially plotted position agrees with the ~~previous~~ geographic position for this light. *See 37 p. 10 original*

TEXAS CITY CHANNEL CUT 'B' INNER FRONT BEACON, 1933, was also rebuilt in 1944 according to the information in the above mentioned pamphlet. The radially plotted position according to the field identification was shown on the manuscript for this light.

See photogrammetric plot report for remarks concerning the density and placement of the control on this survey.

33. SUPPLEMENTAL DATA

1. 1:5000 scale (approx.) photographs of the Texas City Terminal area after the explosion April 16, 1947, which were dated May 2, 1947.
2. Field Observation Vol. 2 of 5 Vols. Sextant fixes were used to determine the location of four (4) buoys, two piles and three points on range.
3. 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.

Low water lines and foul areas were delineated from office interpretation of the 1:5000 scale (approx.) photographs. No attempt was made to delineate the limits of shallow areas on the manuscript because of the indefinite character of the feature.

36. OFFSHORE DETAIL

No comment.

37. LANDMARKS AND AIDS

Landmark "ELEVATOR", latitude $29^{\circ} 22' 31.5''$ and longitude $94^{\circ} 53' 39''$ which is the same station as triangulation station "GRAIN, 1933" was destroyed by the recent devastation in the Texas City Terminal Area, and has not been shown on the manuscript. The chart section in the field inspection report does not show this landmark as being destroyed. (See 1947 recovery note for triangulation station "GRAIN, 1933").

Forms No. 567 for six (6) non-floating aids to navigation have been submitted by Ross A. Gilmore in January 1948. *not with report 41 Ch. 84 (1948) pp. 11, 12*

Forms No. 567 for four (4) floating aids and six (8) non-floating aids to navigation are also attached to this report.

The radially plotted positions of the Texas City Channel Cut "B" Inner Range front and rear beacons cannot be accurately aligned with the point on range plotted by sextant fix for this range line. It is also

37. LANDMARKS AND AIDS (continued)

noted that the Texas City Channel Cut "B" Inner Range line and the Cut "B" Outer Range line do not coincide as charted.

The photographs were re-oriented under the acetate manuscript. The radial lines for all lights were drawn on the manuscript; and their intersection points picked. A template was made from sextant fix data for point on Range for Cut B, inner range, and the point re-plotted on the manuscript. Result: Texas City Channel Cut B inner range line passed through the two lights and the Point on Range.

The new positions for all lights were circled on the manuscript. The original checks removed; and form 567 submitted for the new positions.

75

38. CONTROL FOR FUTURE SURVEYS

Non comment

39. JUNCTIONS

Junction with Survey T-8941 to the east has been made and is in agreement.

Junction with Survey T-8943 to the southeast is an all water area.

Junction with Survey T-8945 to the south cannot be made since it is impossible to complete delineation of Survey No. T-8944 to its southern neat line.

There are no contemporary surveys either to the north or to the west of this manuscript.

40. HORIZONTAL AND VERTICAL ACCURACY

See paragraph 31.

41. RAILROADS

Railroads located at Texas City Terminal have been delineated on the map manuscript as they were constructed previous to the explosion of April 16, 1947. Present condition and location of these railroads is uncertain.

42-45 - Inapplicable

46. COMPARISON WITH EXISTING MAPS

Survey No. T-8944 has been compared with the War Department, Corps of Engineers, U.S. Army quadrangles - scale 1:25,000, edition of 1943:

Virginia Point Bolivar Point Texas City

47. COMPARISON WITH NAUTICAL CHARTS

Survey No. T-8944 has been compared with U.S.C. & G.S. Charts Nos. 520, scale 1:30,000, 46th edition published at Washington, D.C. February 1945, corrected to June 6, 1949; and No. 1282, scale 1:80,000 16th edition, published at Washington, D. C. February 1945, corrected to September 6, 1948.

Snake Island, which appears on the manuscript, just east of the Turning Basin at Texas City Terminal, was originally connected to Texas City by a narrow strip of land. This strip of land has been washed through, leaving this island independent of Texas City.

It is expected that piers and bulkheads in the devastated area of Texas City will be rebuilt as formerly constructed previous to the explosion. (See Field Inspection Report for Port Arthur to Cedar Lakes, Texas).


Items to be applied to nautical charts immediately:

None

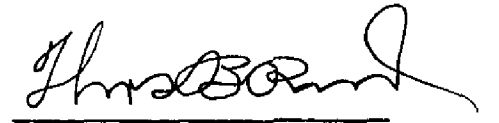
Items to be carried forward

None

Respectfully submitted
3 August 1949


Ruth M. Whitson
Engineering Draftsman (Compiler)

Approved and forwarded
August 1949


Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric Office

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 8944

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines g 32. Public land lines g

MISCELLANEOUS

33. Geographic names g 34. Junctions g 35. Legibility of the manuscript g 36. Discrepancy overlay g 37. Descriptive Report g 38. Field inspection photographs g 39. Forms g 40. Raymond Glasser Harry R. Rudolph
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

none

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:

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE DELETED

STRIKE OUT ONE

Baltimore, Maryland

3 August

1949

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

The positions given have been checked after listing by

R. Glaser

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED	
				LATITUDE		LONGITUDE				HARBOR CHART	INSHORE CHART
				°	'	°	'				
TEXAS		TEXAS CITY CHANNEL									886, 520, 1282
LT.		CUT "B" INNER RANGE REAR	886 c Helms	29	22	1758.6	94 53	541.9	N.A. 1927	March 1949	X X
LT.		CUT "B" INNER RANGE FRONT	886 c Helms	29	22	1595.0	94 52	1547.0	"	"	X X
LT.		CUT "C" RANGE FRONT	886 c Helms	29	23	65.0	94 52	1116.0	"	"	X X
LT.		CUT "C" RANGE REAR	886 c Helms	29	23	258.0	94 52	874.0	"	"	X X
LT. No. 19		Texas City Channel Bend	886 c Helms	29	22	1324.0	94 53	98.0	"	2	X X
" No. 17		"	886 c Helms	29	22	1418.0	94 52	1306.0	"	"	X X
LT.		CUT "A" INNER RANGE FRONT	886 c Helms	29	22	436.5	94 50	155.2	Triang.	1933	X X
LT.		CUT "A" INNER RANGE REAR	886 c Helms	29	22	711.2	94 50	711.0	"	"	X X

New positions submitted (see next page)

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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS QUESTIONS FOR CHARTS

**TO BE CHARTED
X003600462501**

8TRIKE OUT ONE

~~Washington, D. C. 30 Aug. 19 50~~

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

The positions given have been checked after listing by K. N. Makl

S. V Griffith *Chief of Party.*

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE		DATUM							
				°	'	D. M. METERS	°		'						
	Lt.	Texas City Channel							NA 1927	886, 521 1282					
	Lt.	Cut "B" Inner Range Rear		29	22	1764.5	94	53	549.5	"	"	X	X	X	
	Lt.	Cut "B" Inner Range Front		29	22	1593.2	94	52	1556.4	"	"	X	X	X	
	Lt.	Cut "C" Range Front		29	23	69.4	94	52	1132.8	"	"	X	X	X	
	Lt.	Cut "C" Range Rear		29	23	266.6	94	52	900.8	"	"	X	X	X	
	Lt. No. 19	Texas City Channel Bend		29	22	1324.0	94	53	107.6	"	"	X	X	X	
	Lt. No. 17	Texas City Channel		29	22	1416.8	94	52	1315.8	"	"	X	X	X	

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED }
TO BE DELETED }

STRIKE OUT ONE

Baltimore, Maryland

August 31, 1949

I recommend that the following objects which have ~~(been inspected from seaward to determine their value as landmarks, be~~ 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. Glaser

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 806, and used as a guide to navigation, if redetermined, shall be reported on this form. The data should be reported under each column heading under each column heading should be given.

48. GEOGRAPHIC NAME LIST

✓ Galveston Bay

* Halfmoon Shoal

✓ Pier O

✓ Pier A

✓ Pier B

✓ Pier C

✓ Pier D

✓ Pier E

✓ Seaside Golf Course

✓ Snake Island

✓ Swan Lake

✓ Texas City

✓ Texas City Boat Club

✓ Texas City Channel

✓ Texas City Dike

✓ Turning Basin

✓ Texas

* This name is taken from chart No. 520
and does not appear on the map manuscript
because the feature is not visible on the
photographs.

Names approved

8-25-50

A.J.W.

Review Report T-8944
Shoreline Survey
25 August 1950

62. Comparison with Registered Topographic Surveys.-

T-283	1:20,000	1850
T-4867	1:20,000	1933-4
T-6051	1:10,000	1933

Except for the 2'-4' bluff along shore from Texas City wharves northward, the present survey supersedes those listed above for charting purposes.

63. Comparison with Maps of Other Agencies.-

USE	Texas City	1:25,000	1949
USE	Virginia Point	1:25,000	1949

These maps were compiled from 1942 aerial photographs. The road data is of 1943; the marginal data is a 1949 revision; and the Universal Mercator Grid was added in 1949.

The Texas City wharf area delineation on T-8944 supersedes that of the quadrangles because it was made subsequent to the destructive explosions of 1947.

64. Comparison with Contemporary Hydrographic Surveys.:

None

65. Comparison with Nautical Charts.-

520 1:30,000 Feb. 1945, rev. Sept. 1949

Details not appearing on T-8944-

1. A 2' to 4' bank alongshore from Texas City wharves northward.
2. Various pipes and piles along Texas City Dike and Texas City Channel Cut B; from Cut B.R.F. light to the Yacht Club basin; from Cut B.R.F., No. 17, and No. 17 lights to Snake Island; and in the Bay southward from Snake Island.
3. Channel from Cut B.R.F. light to Texas City Yacht Club basin.

66. Adequacy.-This manuscript complies with project instructions and is adequate for charting purposes.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

Page 2

APPROVED BY:

S. V. Griffith
Chief, Review Section *B* 12/14/51
Div. of Photogrammetry

H. B. Munton
Chief, Nautical Chart Branch
Division of Charts *or*

O. S. Reading
Chief, Div. of Photogrammetry

W. H. Cutting
Chief, Div. of Coastal Surveys
W. H.

