

# 8925

Diag. Cht. No. 1116-2

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-8925

### LOCALITY

State Louisiana - Texas  
Gulf Coast Intracoastal  
General locality Waterway  
Locality Vicinity of Orange - Sabine  
River

1947

### CHIEF OF PARTY

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

### LIBRARY & ARCHIVES

DATE January 23, 1953

8925

## DATA RECORD

T-8925

Quadrangle (II):

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

Field Office: Morgan City, La.

Chief of Party: Ross A. Gilmore

Compilation Office:

Baltimore, Md.

Chief of Party:

Thos. B. Reed

Instructions dated (II III):

PH-14(46)(Not dated)

Copy filed in *Division of*  
~~Report No. T-~~ *Descriptive*  
*(VI)**Photogrammetry Office Files*

Completed survey received in office: 1-6-49

Reported to Nautical Chart Section: 1-18-49

Reviewed: 9/8/49 Applied to chart No. 884 Date: 1/16/50

Redrafting Completed: 5-9-50

Registered: 6/11/50

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927

Datum Plane (III): MHW

Reference Station (III): HIGH, 1933

Lat.: 30° 03' 23.738" (730.9m) Long.: 93° 41' 50.084" (1341.6m) Adjusted  
~~Unadjusted~~State Plane Coordinates (VI): *Louisiana South Zone*

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
18652 to 18653 inc.	11-23-46	1606	1:10,000	not applicable
18654 to 18657 "	"	1613	"	" "
C-1150 to 1152 "	3-25-47	1419	"	" "

Field photographs furnished  
except 18657, C-1152 & C-1153

Tide from (III): \_\_\_\_\_

Mean Range: \_\_\_\_\_ Spring Range: \_\_\_\_\_

Camera: (Kind or source) U.S.C. & G.S. nine lens camera focal length  $8\frac{1}{4}$ "  
Single lens type C focal length 6"

Field Inspection by: \_\_\_\_\_ date: 7-5-47 to  
Harold A. Duffy  
Charles H. Bishop 9-26-47

Field Edit by: *None* date: \_\_\_\_\_

Date of Mean High-Water Line Location (III):  
Same as date of photographs supplemented by field inspection data.

Projection and Grids ruled by (III) W.E.W. date: 9-14-48

" " " checked by: W.E.W. date: 9-14-48

Control plotted by: M.F.Kirk date: 9-23-48

Control checked by: Frank J. Tarcza date: 9-24-48

Radial Plot by: Frank J. Tarcza date: 10-7-48

Detailed by: Leroy A. Senasack date: 10-25-48 to  
12-14-48

Reviewed in compilation office by: J.W.Vonasek date: 12-28-48 to  
1-4-49

~~Elevations on Field Edit Sheet~~  
~~checked by: \_\_\_\_\_~~ ~~date: \_\_\_\_\_~~

STATISTICS (III)

Land Area (Sq. Statute Miles): 19

Shoreline (More than 200 meters to opposite shore): 36 statute miles

Shoreline (Less than 200 meters to opposite shore): 41 statute miles

Number of Recoverable Topographic Stations established: none

photo hydro

Number of ~~Temporary Hydrographic~~ Stations located by radial plot: none

Leveling (to control contours) - miles:

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

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:



FIELD REPORT

SHORELINE MANUSCRIPT      SURVEY NO. T-8925

For field data covering Survey No. T-8925 refer to the field report "Gulf Intracoastal Waterway, L81(1947), Vermilion Bay, La. to Port Arthur, Texas", submitted by Ross A. Gilmore, dated October 1947. *Filed in the Nautical Chart Branch, Div. of Charts*



MAP T. 8925 PROJECT NO. PH-14(46) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
ORANGE, 1931	Louisiana P-22	N.A. 1927	30 05 20.676 93 44 12.601			636.7 1210.8 337.4 1269.3	
SUB. PT. ORANGE			30 05 93 44			<del>645.0 1202.5</del> <del>344.0 1262.7</del>	Removed from manuscript
ORANGE PRESBYTERIAN CH. DOME, PINNACLE 1931	G-1252 Pg. 163	"	30 05 35.70 93 44 16.70			1099.3 748.2 447.2 1159.4	
ORANGE CANNING PLANT TANK, 1931	G-1252 Pg. 163	"	30 05 06.657 93 44 59.552			205.0 1642.5 1594.7 12.0	
ORANGE, GULF STATES UTILITY CO. STAND-PIPE, 1931	G-1252 Pg. 163	"	30 05 26.950 93 43 46.294			829.8 1017.7 1239.7 367.0	
ORANGE GULF STATES UTILITIES, EAST STACK, 1931	G-1696 Pg. 47	"	30 05 25.48 93 43 46.85			784.6 1062.9 1254.5 352.1	
ORANGE GULF STATES UTILITIES, WEST STACK, 1933	G 1696 Pg. 47	"	30 05 25.83 93 43 48.23			795.4 1052.1 1291.5 315.1	
HIGH, 1933	G 1696 pg. 45	"	30 03 23.738 93 41 50.084			730.9 1116.6 1341.6 265.6	
SUB POINT HIGH			30 03 93 41			<del>713.6 1133.9</del> <del>1390.1 217.1</del>	"
STA. 574 + 77.6 (USE) 1933	G-1696 Pg. 44	"	30 03 02.887 93 43 13.339			88.9 1758.6 357.3 1250.0	
SUB. PT. STA. 574 + 77.6		"	30 03 93 43			<del>62.6 1784.9</del> <del>470.8 1136.5</del>	"
ORANGE, COMMERCIAL PULP & PAPER CO. TANK, 1933		"	30 05 18.745 93 44 42.316			577.2 1270.3 1133.1 473.6	

1 FT. = 3048006 METER COMPUTED BY: M.F. Kirk DATE 5 August 1948 CHECKED BY: F.J. Tarcza DATE 13 August 1948 M-2388-12



MAP T- 8925  
PROJECT NO. PH-14(46)  
SCALE OF MAP 1:10,000  
SCALE FACTOR None

[illegible]

1 FT. = 3048006 METER	COMPUTED BY: M. F. Kirk	DATE: 5 August 1948	CHECKED BY: F. J. Tarcza	DATE: 13 Aug. 1948	M. 2368-12
-----------------------	-------------------------	---------------------	--------------------------	--------------------	------------

COMPILATION REPORT

SHORELINE MANUSCRIPT

SURVEY NO. T-8925

This manuscript is one of a series of surveys in Project No. Ph-14(46) covering a narrow strip of land along the Gulf Intracoastal Waterway from Houma, La. to Corpus Christi Bay, Texas. This project was undertaken to furnish the necessary data to prepare a new series of inland waterway charts at 1:40,000 scale.

Compilation Instructions were not furnished for this project.

26. CONTROL

A list of the stations on the manuscript is included in this report on Form No. M-2388-12.

27. RADIAL PLOT

The radial plot for this survey was made in this office. Refer to the radial plot report, covering Surveys Nos. T-8920, T-8922 to T-8925 inclusive, submitted to the Washington Office on 14 October 1948. Filed in Div Photogrammetry general files.

28. DELINEATION

The compilation is in accordance with Photogrammetry Instructions No. 17, dated 15 September 1947. The Sabine River shoreline north of where Little Cypress Bayou enters the Sabine River was delineated as unsurveyed because of tree layover.

— Filed in Div Photogrammetry office files.

The new Adams Bayou Channel was not delineated in its entirety because of deep shadows and tree layover.

30. MEAN HIGH WATER LINE

There is practically no periodic tide in this area, thereby making the MHWL and the MLWL, for all practical purposes, one and the same.

31. MEAN LOW WATER LINE:

See Mean High Water Line.

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE

See Item 45 in Review Report.

33. WHARVES AND SHORELINE STRUCTURES

There are two floating piers, one floating wharf, and one municipal wharf in the area of this survey.

Several piers and shoreline structures which were not field identified have been delineated by office interpretation of the aerial photographs. They are not verified by field observations.

34. LANDMARKS AND AIDS TO NAVIGATION

A. The following lights were located by the radial plot:  
Sabine River Lights Nos. 5,6,7,8,10,12 and 14.  
Calcasieu-Sabine West Light No. 1. See Review Report

B. Sabine River Lights Nos. 5,7 and 8 are very weak because it was impossible to identify the object that was pricked on the field photograph.

C. The following buoys were located in the field by 3 point/ sextant fixes with one check angle and were plotted on the manuscript using this information:

Sabine River Buoys Nos. 35,36,37,39,43,44,46,  
48,50,54,56,58, and 60.  
Dredge Wreck Buoy No. 1.

D. The following buoys were also located by sextant fixes but would not hold. An average of all the rays to the points ~~were~~ used.  
was

Sabine River Buoys Nos. 32,34,40,41,45,52, and 62. See Review Report

E. For landmarks in this area see section of Nautical Chart 533 in the field report. For aids to navigation see Forms 567 attached to this report.

35. HYDROGRAPHIC CONTROL

None

36. LANDING FIELDS AND AERONAUTICAL AIDS

None

37. JUNCTIONS

This survey is bounded by project limits to the west & north.

37. JUNCTIONS (Continued)

Junction was made with Survey No. T-8924 to the east and Survey No. T-8926 to the south.

38. GEOGRAPHIC NAMES

The geographic names were taken from the following final name standards:

- (1) PHOENIX LAKE, LA. 1:31680
  - (2) ORANGE, TEXAS 1:62,500, edition of 1932
  - (3) ORANGEFIELD, TEX.-LA. 1:31,680, edition of 1946
- See list of geographic names included in this report.

39. BRIDGES AND CABLE CROSSINGS:

There is one swing bridge and cable crossing in the area of this survey. The vertical clearances furnished by the field party were to estimated MHW only.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

This survey was compared with U.S. Geological Survey, Orange, Texas, quadrangle, scale 1:62,500, edition of 1932. A few changes were found to exist, the major of which are:

- 1. A new channel dug through the Adams Bayou
- 2. Area under construction by the E.I. duPont de Nemours & Co.
- 3. Many changes in buildings, railroads, streets, etc. on the neck leading out from South Orange, Texas.
- 4. A large marsh area around Orange, Texas, has been filled in.

45. COMPARISON WITH NAUTICAL CHARTS

This sheet was compared with nautical chart No. 533, scale 1:40,000, and was found to be in fair agreement with it.

The following topographic information shown on T-8925 is of sufficient importance to warrant immediate application to the chart:

None.

The following topographic details above the plane of MHW are not shown on this manuscript but are believed to still exist and should be carried forward on the chart:

None

Minor differences in cultural and shoreline details need no special discussion.

Respectfully submitted  
15 December 1948

Teroy A. Senasack  
Engineering Aid (Photo.)

Harry R. Rudolph  
Supervisor

Joseph W. Vonasek  
Photogrammetric Engineer  
Photogrammetric Office Reviewer

Approved and forwarded  
17 January 1949

Thos B. Baird  
Officer in Charge  
Baltimore Photogrammetric Office





TO BE CHARTED  
~~TO BE EXPENDED~~ } STRIKE OUT ONE

**Baltimore, Maryland**

18 Nov. 1981

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

The positions given have been checked after listing by

**Party: U.S. Govt**

Chief of Party.

[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.



## NONFLOATING AIDS OR FLOATHING MARKS FOR CHARTS

**TO BE CHARTERED**  
**~~TO BE CHARTERED~~**

STRIKE OUT ONE!

Baltimore, Maryland

December 9th, 1948

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

The positions given have been checked after listing by

Joseph W. Vonasek

Thos. B. Reed

Chief of Party.

[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.



## NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

**TO BE CHARTED  
TO BE CHARTERED**

**STRIKE OUT ONE**

December 9, 1948

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

The positions given have been checked after listing by

Joseph W. Vonasek

*Chief of Party.*

[illegible]

\* See Review Report

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nowfloating* 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 OR LANDMARKS FOR CHARTS

TO BE CHARTED  
~~TO BE DELETED~~

STRIKE OUT ONE

Baltimore, Maryland

December 9, 1948

I recommend that the following objects which have ~~(been charted)~~ 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

Chief of Party

Thos. B. Reed

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	D. P. METERS					
	1	DREDGE WRECK BUOY		30 03	93 42	N.A. 1927	109'	Sextant Fix	1947	X	X	884, 533
*	32	SABINE RIVER BUOY		30 02	93 44	"	382'	"	"	X	X	884, 533
*	34	"		30 02	93 44	"	92'	"	"	X	X	"
	35	"		30 02	93 43	"	1157'	"	"	X	X	884, 533, 592
	36	"		30 02	93 43	"	919'	"	"	X	X	"
	37	"		30 02	93 43	"	833'	"	"	X	X	"
	39	"		30 03	93 43	"	572'	"	"	X	X	"
*	40	"		30 04	93 42	"	1442'	"	"	X	X	"
*	41	"		30 04	93 43	"	54'	"	"	X	X	"
	42	"		30 04	93 43	"	126'	"	"	X	X	"
	44	"		30 04	93 43	"	487'	"	"	X	X	"
*	45	"		30 04	93 43	"	1025'	"	"	X	X	884, 533
	46	"		30 05	93 43	"	1599'	"	"	X	X	"
	48	"	* See Review Report	30 05	93 44	"	49'	"	"	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.



GEOGRAPHIC NAMES

T-8925

- ✓ • Adams Bayou ✓ —
- ✓ • Burton Shell Slip ✓ —
- ✓ • Conway Bayou ✓ —
- ✓ • Gulf States Utilities and Transmission Line ✓ —
- ✓ • Intracoastal Waterway ✓ —
- ✓ • Orange ✓ —
- ✓ • ~~Phoenix Lake~~ ✓ —
- ✓ • Round Bunch Road ✓ —
- ✓ • Sabine River ✓ —
- ✓ • Little Cypress Bayou ✓ —
- ✓ • Cooper Gully ✓ —

Names that appear on Nautical Chart No. 533, but not on the final names standards:

- ✓ • Cutoff ✓ —
- ✓ • Lake Charles Canal ✓ —
- ✓ • Municipal Wharf ✓ —
- ✓ • Louisiana ✓ —
- ✓ • Texas ✓ —
- ✓ • U.S. 90 —

omit = now part of Intracoastal Waterway

Names precoded by • are  
approved - 8-15-49  
L. Heck

Review Report T-8925  
Shoreline Survey  
8 September 1949

26. Control:-Refer to Form M-2388-12 included in this Descriptive Report.

28. Delineation:-Two buildings and parts of another have been shown with a dashed line indicating that they were ~~neither~~ being constructed or razed.

34. Landmarks and Aids to Navigation:-Sabine River Lt 5 was removed from the manuscript for the following reasons:

1. The sextant fixes for Bouys 32 and 34 both indicated that Lt.5 should be farther South when the other three photo points were held. The photo points (excluding Lt.5) were checked by radial plot methods and found to be in their correct positions.

2. The position of Lt.5 on T-6042(1933-34) showed it 12 meters south of its T-8925 position. Lt.5 was rebuilt in 1942, but in the same position ("Notice to Mariners", No. 16, 1942).

3. There was no image on any of the photographs that could definitely be interpreted as Lt. 5. The field pricked location of Lt.5 had been transferred to one office photo and thence to the manuscript.

Sabine River Light 7 was removed from the manuscript for the following reasons:

1. Both the T-6042 position and the Chart 533 position fall approximately 55 meters N.E. of the T-8925 location. ("Notice to Mariners", No. 16, 1942), states that Lt. 7 was rebuilt in 1942, but in the same position.

2. Lack of positive detail on all photos offered no assurance as to correct location. Lt. 7 was also placed on the manuscript by transference from one photo.

Sabine River Light 8 was removed from the manuscript for the following reasons:

1. The sextant fixes for location of Bouys 40 and 41 could not be held using Lt. 8. The other photopoints were checked by radial plot methods and found to be correctly located except for point L which was moved approximately 5 meters.

2. The 6042 position of Lt. 8 fell 37 meters N.W. of the T-8925 position. Its location on Chart 533 fell approximately 50 meters north of the T-8925 location. "Notice to Mariners" No. 19, 1942, states that Lt. 8 was rebuilt in its same position in 1942.

3. Lt. 8 had been field pricked on one photo, 18653. It could be seen on no other photograph. Close inspection indicated that a bare tree had been pricked.

4. "Notice to Mariners," Nos. 16 and 52, 1946, showed that Lt. 8 was reported destroyed March 4, 1946, and rebuilt December 1, 1946. Photo 18653 was exposed November 23, 1946. It is possible that no structure had yet been erected at the latter date.

#### Sabine River Light 12:

The T-8925 position of Lt. 12 falls approximately 60 meters SSE of its Chart 533 position.

#### Sabine River Light 14:

The T-8925 position of Lt. 14 falls approximately 45 meters SSW of its Chart 533 position.

When it was impossible to hold four photo-points in locating bouys by the sextant fix method, it was considered necessary to determine the relative strength of the following variants and subsequently obtain the best possible positions.

- (1) Strength of photo-point as to clarity of photo image, and accuracy of pricking; number and strength of radial cuts to photo points.
- (2) The strongest fix considered from a geometric viewpoint.
- (3) The type of object sighted upon.
- (4) The relative distances from object to photo-points.

Bouys 32 and 34 were relocated by holding their sextant fixes to three photo points. The check angle to Sabine River Light 8 could not be used since Lt. 8 had been deleted.

Bouy 40 was relocated in an approximate position, since the ray to Lt. 8 was not used and since the other rays effected a weak fix.

Bouy 41 was relocated using the sextant fix to three photo-points. The check angle to Lt. 8 could not be used since the latter's manuscript position had been expunged.

Bouys 45 and 62 were relocated within standard accuracy limits.

Bouy 52 was retained and is accurate within standard limits.



The new positions for buoys 32, 34, 40, 41, 45 and 62 were scaled and a form 567 was submitted and filed in the Division of Charts. Copy attached.

44. Comparison with Existing Surveys

A. Quadrangles:

Phoenix Lake, La. (USGS)	1:31,680	1932
Orange, Texas (USGS)	1:62,500	1926
Terry, Texas (USGS)	1:62,500	1926
Orangefield, Tex.-La. (Army Engineers)	1:31,680	1943

B. Topographic Surveys:

T-6042 1:20,000 1933-34  
This map supersedes T-6042 for nautical charting.  
A number of lights were removed from T-8925 and are no longer common to the two surveys. See item 34, Review Report.

C. Contemporary Hydrographic Surveys:

There are none covering this area.

45. Comparison with Nautical Charts

533 1:40,000 1948 (latest correction date)

The following do not appear on Chart 533:

Wrecks in Sabine R. at entrance to Phoenix Lake. *Don't list*

Overhead and submerged cables crossing the Sabine River at the U. S. Route 90 bridge. *On old charts. now charted 1959*

Two floating piers, and a floating wharf in Sabine River, near Orange City; small piers in Sabine River; floating wharf in Adams Bayou.

Submerged pipeline across Sabine River at Burton Shell Slip.

Twelve prominent concrete piers along the Sabine River. *Now charted 1959*

A few wrecks and obstructions appear on T-8925 in the Sabine River near the entrance to Conway Bayou that do not appear on Chart 533. All wrecks and obstructions shown in this area on T-8925 are obvious on the aerial photographs. There are possibly some wrecks submerged more deeply that do not appear on the photos, although field inspection made no note of them. *now charted*

There are some snags or piling symbolized on the chart near the Cutoff that do not appear on this manuscript. They were not revealed by the photos, nor did the field party ascertain them. *Set on chart 533*



Chart 533 shows two lights in the Sabine River, SE of Orange, and one light at the entrance to Adams Bayou. Evidently these were established since the T-8925 field inspection.

The position of the center of the Intracoastal Waterway at the east edge of Chart 533 is approximately 80 meters north of the T-8925 and Chart 592 locations. *Corrected 1959*

46. Classification

Not classified by authority of the security classification letter in the general files of the Division of Photogrammetry.

47. Adequacy of Compilation

This compilation meets the Bureau requirements of accuracy for shoreline surveys and is adequate as a base for construction of nautical charts.

Reviewed by:

*Howard J. Murray*  
Howard J. Murray  
*by K.H.M.*

Approved by:

<i>S.V. Gifford</i> 11/2/53	<i>A. Edmonson</i>
Chief, Review Section	Chief, Nautical Chart Branch
Division of Photogrammetry	Division of Charts <i>GRJ</i>

<i>O.S. Reading</i>	<i>Carl O. Heston</i>
Chief, Div. of Photogrammetry	Chief, Div., Coastal Surveys
<i>MMX</i>	<i>GRJ</i>



SURVEY NO. T. 8925

## Record of Application to Charts

[illegible]

M-2168-1

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.

Applied to Chart 884 Jan. 16, 1950 M. Hunsberger