

8927

Diag. Cht. No. 1116-2 & 1279.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photogrammetric Shoreline

Field No. Office No. T-8927

LOCALITY

State Texas

General locality Gulf Coast Intracoastal Waterway

Locality Sabine Lake - Sabine Neches Canal

1947

CHIEF OF PARTY

H.A. Gilmore, Chief of Field Party

T.B. Reed, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE November 29, 1950

8927

DATA RECORD

T- 8927

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. ReedInstructions dated (II III):
PH-14(46) Field, not datedCopy filed in ~~Descriptive~~
~~Report No. T-~~ (VI)
Div. of Photogrammetry Office Files

Completed survey received in office: 12-28-48

Reported to Nautical Chart Section: 1-3-49

Reviewed: 1 Dec, 1949 Applied to chart No. 884 Date: 12 Jan. 1950

Redrafting Completed: 6-22-50

Registered: 27 Sept. 1950

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): LOCKS, 1933

Lat.: 29° 55' 39.273" (1209.3m) Long.: 93° 52' 30.492" (817.9m) Adjusted
~~Unadjusted~~

State Plane Coordinates (VI): Louisiana, South Zone

X = 1,194,903.75

Y = 467,451.52

Military Grid Zone (VI) —

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u> (ratio)	<u>Stage of Tide</u>
47-C-1140	3/25/47	1353	1:10,000	Not applicable
47-C-1141	"	1354	1:10,000	"
47-C-1142	"	1355	"	"
47-C-1143	"	1415	"	"
47-C-1144	"	1415	"	"
47-C-1145		1416	"	"

Tide from (III):

Mean Range:

Spring Range:

Camera: (Kind or source) Single lens Type C focal length 6"

Field Inspection by: Charles H. Bishop
Harold A. Duffy

date: 5 July to 26 Sept. 1947

Field Edit by: *None*

date:

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

Projection and Grids ruled by (III) W.E.W.

date: 9/17/48

" " " checked by: W.E.W.

date: 9/17/48

Control plotted by: M.F.Kirk

date: 10/4/48

Control checked by: J.C.Richter

date: 10/5/48

Radial Plot by: F.J.Tarcza

date: 10/13/48

Detailed by: D.A.Maskell

date: 10/28/48 to
11/19/48

Reviewed in compilation office by:
J.W.Vonasek

date:
2 Dec. to 17 Dec. '48

~~Elevations on Field Edit Sheet~~
~~checked by:~~

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 9

Shoreline (More than 200 meters to opposite shore): 16 statute miles

Shoreline (Less than 200 meters to opposite shore): 15 statute miles

Number of Recoverable Topographic Stations established: 2

Photo hydro stations

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:

MAP T. 8927

PROJECT NO. PH-14(46)

SCALE OF MAP 1:10 000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
NECHES (USE) 1908 <i>9</i>	G1584 P. 28	N.A. 1927	29	58	02.532			78.0	1769.5		<i>No recovery</i>
YACHT, 1933	G1584 P. 23	"	93	51	45.651			1223.9	384.7		
BRIDGE, '47	Topo Card	"	29	58	02.149			66.2	1781.3		
TANK '47	Topo Card	"	93	51	47.143			1264.0	344.7		
NECHES RIVER REF- ERENCE LINE STA. ARTHUR 60+00(700' offset) QUAD (USE 1941	Topo Card	N.A. 1927	29	58				1492	355.5		<i>Not held</i>
	PA 46	Field	93	52				450	1158.5		
		N.A. 1927	29	58				489	1358.5		
		Field	93	51				416	1192.6		
		N.A. 1927	29	58	38.261			1178.1	669.4		
		Field	93	51	57.211			1533.8	74.8		
ATRECO WHARF (NECHES RIVER) LT 3 1947	L81, 1947 Form No. 567	N.A. 1927 Comp.	29	58				1530.0	317.5		
ATRECO WHARF (NECHES RIVER) LT 1 1947	"	"	93	52				1473.5	134.9		
NECHES RIVER LT. 6, 1947	"	"	29	58				1511.5	336.0		
NECHES RIVER LT. 4, 1947	"	"	93	52				1222.5	386.0		
NECHES RIVER LT. 3, 1947	"	"	29	58				1772.0	75.5		
SABINE NECHES CANAL LT. 29, 1947	"	"	93	52				1263.0	345.0		
	"	"	29	58				1580.0	267.5		
	"	"	93	52				25.5	1583.2		
	"	"	29	58				1017.0	830.5		
	"	"	95	51				1220.0	388.5		
	"	"	29	58				433.0	1414.5		
	"	"	93	51				482.5	1126.1		

1 FT. = 3048006 METER

COMPUTED BY: M.F. Kirk

DATE 10 Aug. 1948

CHECKED BY: F.J. Tarcza

DATE 13 Aug. 1948

M-2388-12

Summary to Accompany T-8927

Shoreline survey T-8927, scale 1:10,000 (Lat. $29^{\circ}56'$ to $30^{\circ}00'$, Long. $93^{\circ}49'$ to $93^{\circ}55'$) is one of 76 maps in Project Ph-14(46). This project is divided into four parts and T-8927 is located in part 2.

Data pertaining to T-8927 are filed as follows:

A. Division of Photogrammetry General Files

1. Reviewed manuscript.
2. Two forms 524 (Rec. Topo. Sta.)
3. Field inspection photos.
4. Radial Plot Report for T-8926 to T-8928 inc.

B. Bureau Archives

1. Registered lithographic print of the reviewed manuscript at compilation scale.
2. Registered Descriptive Report.

FIELD REPORT

SHORELINE MANUSCRIPT - T - 8927

For field data covering Survey T-8927 refer to the special report
L 81 (1947) ^{Oct. 1947} Gulf Coast Intracoastal Waterway, Vermilion Bay, La. to
Port Arthur, Texas, filed in the nautical chart branch.

COMPILATION REPORT

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 Vermilion Bay, La. to Port Arthur, Texas. This survey covers the waterway in the area of Sabine Lake from Sydney Island to approximately 5 miles north of Port Arthur. Compilation instructions were not furnished for the project.

26. CONTROL

For the layout of control on the manuscript refer to the radial plot report. A list of control stations is included in this report on form M-2388-12. The Sabine Neches Canal Lt. 22 was not held in the radial plot. See par. 34 regarding planetable positions of additional lights that were not held.

27. RADIAL PLOT

The radial plot for this survey was made in this office. Refer to the radial plot report covering Surveys Nos. T-8926 through T-8928, submitted to the Washington Office on 29 October 1948. *Div. of Photogr. general files.*

28. DELINEATION

The field inspection was adequate for the area covered by this survey. Limits of areas of marsh and high ground and interpretation of other inland features were determined by careful stereoscopic examination of the photographs.

Part of the canal under the Port Arthur-Orange Bridge was delineated as unsurveyed shoreline because of the density of shadow and also because the bridge actually obscured part of it. Neches River was delineated to the limit of photographic coverage.

29. SUPPLEMENTAL DATA

Graphic Control Survey No. 7041a was used to supplement photographs. The position of several lights was in disagreement with the radial plot position. Refer to the radial plot report and par. 34 of this report.

30. MEAN HIGH WATER LINE

The mean tide range in this area is so slight the MHWL and the MLWL are practically the same.

31. MEAN LOW WATER LINE

See MHWL above.

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE

Delineated in accordance with field identification.

33. WHARVES AND SHORELINE STRUCTURES

No comment.

34. LANDMARKS AND AIDS TO NAVIGATION *Chart Letter No 81 (48)*

The landmark BRIDGE located by Graphic Control Survey No. 7041a could not be held in the radial plot and a new position was determined. See the radial plot report.

The following lights were located by radial plot: *See Review Report, 66*

Sabine Neches Canal Range Front Lt. 24

Old Guard Lock Lt. 1

Old Guard Lock Lt. 3

Port Arthur Yacht Club Lt. 1

Port Arthur Yacht Club Lt. 3

Humble Oil Dock Lt. 2

Humble Oil Dock Lt. 4

Several lights, the positions of which were determined by planetable, could not be held and radial plot positions were determined for them. The planetable positions are indicated by waterproof ink circles on the back of the manuscript. Lights not held are as follows:

Sabine Neches Canal Range Rear Lt. 27

Sabine Neches Canal Lt. 29

Neches River Lt. 3

Neches River Lt. 4

The positions listed on forms 567 are all radial plot positions.

The position of Atreco Wharf Lt. 3 was rescaled from the planetable sheet and a new st position is being submitted.

⁽¹⁶⁾
The positions of all the buoys were projected on the manuscript from Graphic Control Survey No. 7041a, using the reflecting projector.

The point on Sabine Neches Canal Range 24 was plotted on the manuscript from sextant fix furnished by the field party.

35. HYDROGRAPHIC CONTROL

None.

36. LANDING FIELDS AND AERONAUTICAL AIDS

None

37. GEOGRAPHIC NAMES

Geographic names were taken from the final name sheet furnished this office. A list of ^{approved} names is attached to this report.

39. JUNCTIONS

This survey is bounded by the project limits to the north and west. Junctions with Survey No. T-8926 to the east and with Survey T-8928 to the south have been made and are in agreement,

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

This manuscript was compared with United States Geological Survey, West of Greens Bayou quadrangle and found to be in good agreement.

45. COMPARISON WITH EXISTING NAUTICAL CHARTS

This manuscript was compared with U. S. Coast and Geodetic Survey Charts No. 533 and No. 517 and found to be in good agreement.

The following topographic information shown on T-8927 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 changes in cultural and shoreline details need no special discussion.

Respectfully submitted
30 November 1948

Louis A. Maskell
Engineering Draftsman

Harry R. Rudolph
Supervisor

Joseph W. Bonack
Photogrammetric Engineer
Photogrammetric Office Reviewer

Approved and forwarded
30 December 1948
Thos. B. Baird
Officer in Charge
Baltimore Photogrammetric Office

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 November

19 48

I recommend that the following objects which ~~have~~ *have not* been inspected from seaward to determine their value as landmarks, be charted on ~~(attached)~~ *Don't Maskell* the charts indicated.

The positions given have been checked after listing by

Doris A. Maskell

Thos. R. Reed Chief of Party.

STATE		TEXAS		POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE		DATUM							
			°	'	°	'								
LT. 4	HUMBLE OIL DOCK (NECHES R.)		29	58	662	93	51	583	N.A. 1927			x x x		517, 533 884, 1279
LT. 2	HUMBLE OIL DOCK		29	58	645	93	51	580	"					"
LT. 3	PORT ARTHUR YACHT CLUB (Neches R.)		29	58	509	93	51	789	"					"
LT. 1	"		29	58	432	93	51	780	"					"
LT. 3	OLD GUARD LOCK		29	56	207	93	52	327	"			x x x		517, 884 1279
LT. 1	"		29	56	28	93	52	457	"			x x x		"
LT. 24	SABINE NECHES CANAL RANGE FRONT		29	56	539	93	51	1511	"					"
LT. 27	SABINE-NECHES CANAL RANGE REAR		29	57	1569	93	52	469	"					517, 533 1279, 884
LT. 22	SABINE-NECHES CANAL		29	56	166	93	52	83	"					517, 1279 884
LT. 29	SABINE-NECHES CANAL		29	58	437	93	51	482	"					517, 533 1279, 884
LT. 3	NECHES RIVER		29	58	1018	93	51	1217	"					"
LT. 4	NECHES RIVER		29	58	1584	93	52	26	"					"
														"
														"

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 *feet*. 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 CHARTED~~ STRIKE OUT ONE

Baltimore, Md.

Nov. 22

19 48

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

The positions given have been checked after listing by

D. A. BASKELL

Thos. B. Reed

Chief of Party.

STATE		TEXAS		POSITION					METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	CHARTS OF INTEREST		
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE			DATUM			HARBOR CHART	INSHORE CHART	OFFSHORE CHART
			° ' "	D. M. METERS	° ' "	D. P. METERS							
BUOY C37	SABINE NECHES CANAL		29 58	1490	93 45	595	N.A. 1927	Topo Sh "A"	1947	X X X	X X X	384, 517	
REF N38	" "		" "	1389	" "	568	"	"	"	X X X	X X X	533, 1279	
REF C35			" "	1212	" "	1336	"	"	"	X X X	X X X	" "	
" N36			" "	1126	" "	1280	"	"	"	X X X	X X X	" "	
" C33			" "	966	93 50	412	"	"	"	X X X	X X X	" "	
REF N34			" "	847	" "	383	"	"	"	X X X	X X X	" "	
" C31			" "	713	" "	1085	"	"	"	X X X	X X X	" "	
" N32			" "	627	" "	1055	"	"	"	X X X	X X X	" "	
" S4	NECHES RIVER		" "	620	93 51	626	"	"	"	X X X	X X X	" "	
" S3	" "		" "	842	" "	896	"	"	"	X X X	X X X	" "	
LIGHTED " S2	" "		" "	1001	" "	805	"	"	"	X X X	X X X	" "	
" S5	" "		" "	1097	" "	1131	"	"	"	X X X	X X X	" "	
" S8	" "		" "	1225	" "	1005	"	"	"	X X X	X X X	" "	
" S7	" "		" "	1242	" "	1365	"	"	"	X X X	X 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.

TO BE CHARTED

STRIKE OUT ONE

NONFLOATING AIDS OR LANDMARKS: FOR CHARTS

Baltimore, Maryland

November 22

1987

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

Doris A. Maskell

The positions given have been checked after listing by

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.

Division of Geodesy

1 Dec. 1949

Review Section, Division of Photogrammetry

Triangulation Station Canal Light No. 22, 1947 (G.P. p.164)

Attn.: Mr. Sutcliffe - Mr. Williamson

In the radial plot for maps of the Port Arthur, Sabine-Neches Canal area, Light No. 22 falls at a position about 9 meters south of the published triangulation station position for the light.

The station will not be shown on the published map, and it is recommended that the position for this station be no longer published since the light has evidently been moved.

Sm
S. V. Griffith
Chief, Review Section

GEOGRAPHIC NAME LIST.

✓ Bland Canal • ✓
✓ Dooks Island • ✓
✓ Humble Island • ✓
✓ Intracoastal Waterway • ✓
✓ Old Ferry Landing • ✓
✓ Old River Bayou • ✓
✓ Old River Cove • ✓
✓ Port Arthur-Orange Bridge • ✓
✓ Port Arthur Yacht Club • ✓
✓ Neches River • ✓
✓ Sabine Lake • ✓
✓ Sabine-Neches Canal • ✓
✓ Stewts Island • ✓
✓ Sydney Island • ✓
✓ Thousand Foot Cut • ✓
✓ Texas •

• = Names checked and approved.
11-30-49.

A. J. W.

Review Report T-3927
Shoreline Survey
1 Dec. 1949

62. Comparison with Registered Topographic Surveys:

None

63. Comparison with Maps of Other Agencies:

U.S.E. West of Greens Bayou, Tex.-La. 1:31,680 1945

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

517	1:40,000	Aug. 1939	rev. Jan. 24, 1949
533	1:40,000	Oct. 1939	rev. Aug. 23, 1948

Neches River buoy S-4, located northwest of the Humble Oil Docks on these charts, is placed southwest of these docks by this survey.

The pipeline area across Old River Cove, shown on both charts, is not depicted on T-3927. The field inspection supplied no information on this feature. Two lines of piling in this cove are not shown on Chart 533.

The bridge over Neches River has a vertical clearance of 174 feet. (Est. M.H.W.) Chart 533, indicates this clearance as 168 feet.

66. Aids to Navigation.--The considerable differences in the positions of lights on the Humble Oil Wharf and Port Arthur Yacht Club Wharf noted between the 1949 Light List and this survey indicate that these lights have been rebuilt since 1937. An investigation by the hydrographic party is recommended.

"Survey needed" file
Hydrographic section
10/26/49

The following note was removed from the manuscript during review: "Sabine-Naches Canal Light 27, front and rear, and Sabine River Light 46, front and rear, on T-3926, are on the same range." These ranges differ on the manuscript.

67. Adequacy of the Compilation.--This map meets the National Standards of Accuracy and complies with the project instructions.

Reviewed by:

Leha T. Stevens
Leha T. Stevens

Approved by:

L. V. Griffith
Chief, Revised Section L.H.M.
Division of Photogrammetry

H. P. Edmonston
Chief, Nautical Chart Branch
Division of Charts

Asst. E. H. Kusch *BAG*
Chief, Div. of Photogrammetry

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

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 8927

Record of Application to Charts

[illegible]

M-216A-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.