

9285

Diag. Cht. No. 1284

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. Ph-14(46) Office No. T-9285

LOCALITY

State TEXAS

General locality GULF INTRACOASTAL WATERWAY

Locality GREENS BAYOU TO FLAGG BAYOU

194

CHIEF OF PARTY

T. B. Reed, Baltimore Photogrammetric Office

R. A. Gilmore, Chief of Field Party.

LIBRARY & ARCHIVES

DATE May 30 - 1953

15
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DATA RECORD

T -9285

Project No. (II): **Ph-14(46)** Quadrangle Name (IV):

Field Office (II): **Port Lavaca, Texas** Chief of Party: **R. A. Gilmore**

Photogrammetric Office (III): **Baltimore, Maryland** Officer-in-Charge: **T. B. Reed**

Instructions dated (II) (III): **(not dated)** Copy filed in Division of
Supplement No. 1 22 July 1947; Photogrammetry (IV)
Letters dated 5 June 1947.
29 July 1947 and 4 February 1949

Method of Compilation (III): **Graphic**

Manuscript Scale (III): **1:20,000** Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): **1,000**

Date received in Washington Office (IV): **11-9-49** Date reported to Nautical Chart Branch (IV): **11-17-49**

Applied to Chart No. Date: Date registered (IV): **18 Nov. 1952**

Publication Scale (IV): Publication date (IV): **(Date of issue July 1952)**

Geographic Datum (III): **N.A. 1927** Vertical Datum (III): **MHW**

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (26) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): **OSGOOD, 2, 1906**

Lat.: **28°27'38.769"** Long.: **96°17'45.278"** (1231.8m) Adjusted
(1193.5m) ~~Leadjusted~~

Plane Coordinates (IV): State: Zone:

Y= X=

Its state coordinates are on the map.

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): J. S. Howell
C. H. Bishop
W. M. Reynolds Date: Dec. 4, 1947
to
Jan. 5, 1948

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

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

Projection and Grids ruled by (IV): On original manuscript Date:

Projection and Grids checked by (IV): " " " Date:

Control plotted by (III): " " " Date:
Sub points plotted by L. A. Senasack

Control checked by (III): On original manuscript Date:
Sub points checked by M. F. Kirk

Radial Plot or Stereoscopic Control extension by (III): None Date:

Planimetry Date:
Stereoscopic Instrument compilation (III): Contours Date:

Manuscript delineated by (III): Ruth M. Whitson Date: Sept. 13, 1949

Photogrammetric Office Review by (III): J. W. Vonasek Date: Nov. 7, 1949

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

Camera (kind or source) (III): U.S.C. & G. S. Nine-lens camera, Focal length 8 1/4"

Number	Date	PHOTOGRAPHS (III)			Stage of Tide
		Time	Scale		
18322 to 18326	11-21-46	12:30	1: 20 ,000		0.7' above MLW
18318 & 18319	11-21-46	12:21	1: 20 ,000		0.6' above MLW

Reductions of these photographs at 1:20,000 scale were also available.

Tide (III)

From Predicted Tide Tables

Reference Station: Galveston, Galveston Channel
 Subordinate Station: Pass Cavallo
 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: *13 Nov. 1950*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV): *Sylvia Dean*

Date: *26 June 1952*

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 8

Shoreline (More than 200 meters to opposite shore) (III): 29

Shoreline (Less than 200 meters to opposite shore) (III): 23

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 5 Recovered: 4

Identified: 4

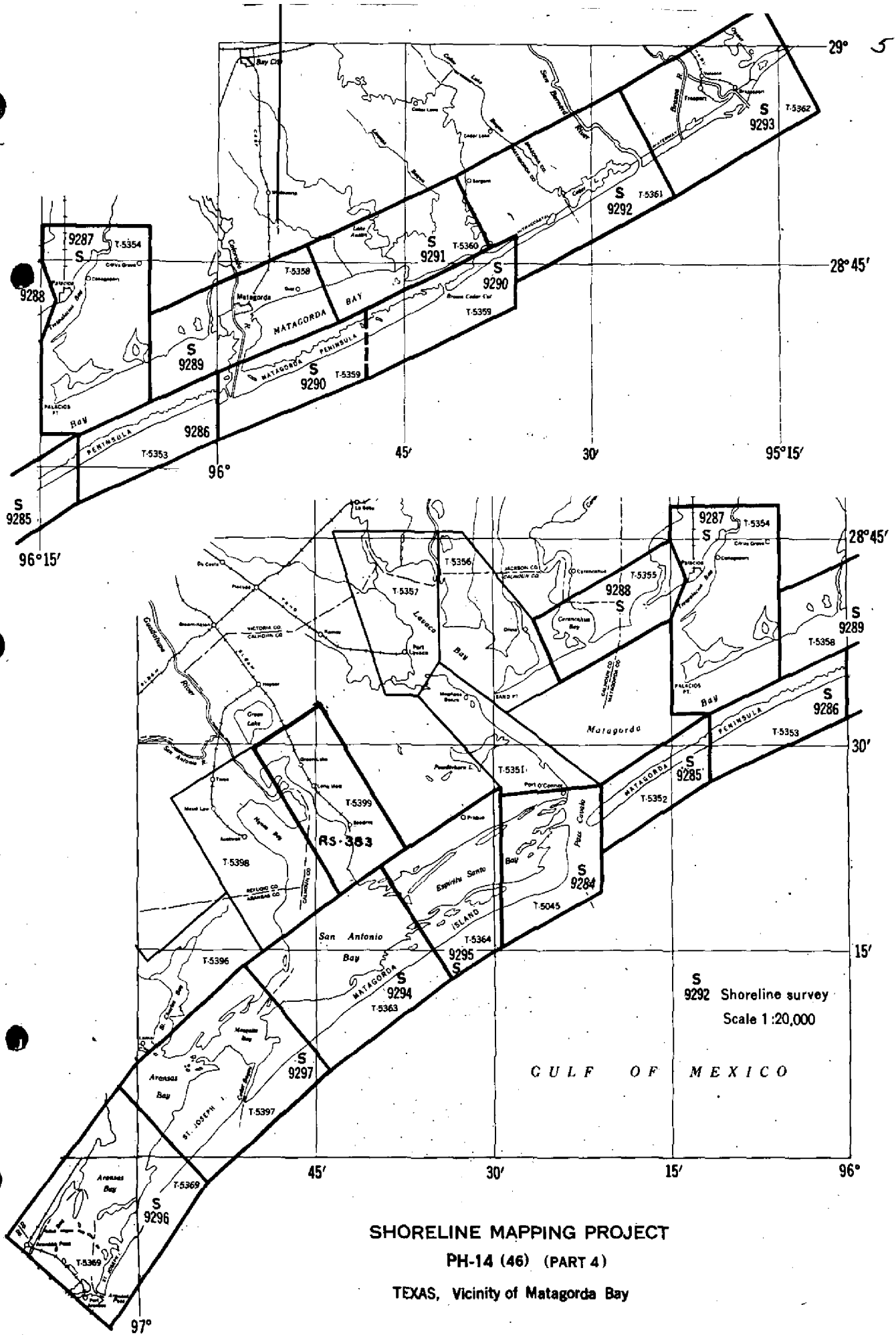
Number of BMs searched for (II): Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 8

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

Remarks:



SHORELINE MAPPING PROJECT
 PH-14 (46) (PART 4)
 TEXAS, Vicinity of Matagorda Bay

Summary to Accompany T-9285

Shoreline survey T-9285, scale 1:20,000 (Latitude 28° 24' to 33'; Longitude 96° 12' to 21') is one of 76 maps in project Ph-14(46), Intracoastal Waterway, ~~which~~ consisting of four parts.

This project was planned to furnish data for a new series of Inland Waterway charts at 1:40,000 scale.

T-9285 is one of the Part IV group which consists of 14 maps (T-9284 to T-9297, inclusive) vicinity of Matagorda Bay, Texas.

Original field work for the entire sheet was accomplished in December 1947 and January 1948 with a subsequent investigation in June 1950 of landmarks and aids.

Field Report
Shoreline Manuscript
T-9285

For field data covering survey T-9285, refer to the Special Report for project Ph-14(46) Gulf Intracoastal Waterway, Cedar Lakes, Texas, to Aransas Pass, Texas, submitted by Ross A. Gilmore, Chief of Party, January 1948.

Chart Letter No. 150(1948). Filed in Nautical Chart Branch, Division of Charts.

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COMPILATION REPORT

T - 9285

FIELD INSPECTION REPORT

(Chart Ltr 150(1948))

For field report refer to Special Report, Ph-14(46) Gulf Intra-coastal Waterway, Cedar Lakes, Texas, to Aransas Pass, Texas, submitted by Ross A. Gilmore, dated January 1948.

PHOTOGRAMMETRIC PLOT REPORT

No formal radial plot was made for this survey. Detail points were located by direct radial plotting methods between the radial plots to the northeast and southwest of this survey.

31. DELINEATION

A red lithographic print of Air Photo Compilation No. T-5352 (1934) of this bureau was used as a manuscript. Four (4) control stations and three (3) graphically plotted sub points were considered sufficient to locate detail points and revise the map manuscript. Where the detail on the red line print and the photographs disagreed, the red line detail was removed and corrected by re-delineating in black. The photographs used were 1:20,000 reductions of the 1:10,000 office photographs.

Since there is no survey to the north of this survey, it was necessary to delineate beyond the neat line in order to facilitate a junction with Survey No. T-9286 and to show the course of the Intracoastal Waterway.

32. CONTROL

The identification and density of horizontal control was adequate.

33. SUPPLEMENTAL DATA

*Geographic names were taken from a lithographic copy of T-5352(1934) on which the names were corrected to 18 July 1949. *Pg. 27.*

*Field sheets B and D and the accompanying descriptive reports, scale 1:40,000.

*Two forms 250, Field Observations, labeled "Proposed Chart No. 889, Vols. 1 & 2 1947" and "Sextant Fixes, 890, 1948" *of 6 Vols*

Supplemental data applied to manuscript. Aid positions reported in Chart Letter 150(1948).

34. CONTOURS AND DRAINAGE

Contours - Inapplicable

Drainage - No comment

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection is considered adequate.

** Destroyed.*

36. OFFSHORE DETAILS

An extensive feature of indefinite character, unidentified by the field inspection party, offshore north of Matagorda Peninsula, has been delineated as grass-in-water.

37. LANDMARKS AND AIDS

A previously charted landmark "CHIMNEY, GRANGERVILLE CLUB HOUSE, 1934" has been destroyed and is recommended for deletion from the chart. There is one aeronautical aid in the area, AERO BEACON 1948. (Chart Ltr. 150 (1948))

The positions of nonfloating aids and floating aids were transferred by enlargement by means of the vertical projector from Field Sheets B and D to the map manuscript. The transfer was made by matching common horizontal control stations shown on the planetable sheets and those on the manuscript. It is noted, however, that the transferred positions of the non-floating aids do not exactly agree with the positions furnished by the field party on Form No. 524. A list showing the positions of these transferred aids as scaled from the manuscript is attached to this report. (See descriptive reports accompanying Field Sheets B and D for methods used in the locations of these aids.) *

Forms No. 567 for nine (9) non-floating aids to navigation were submitted by Ross A. Gilmore 30 January 1948 with the field report. *Chart No. 150 (1948) p. 19*

Forms No. 567 for fifty-nine (59) floating aids to navigation are submitted with this report.

Refer to page 38 of the field report regarding aids that do not appear on this manuscript. *Chart No. 150 (+338) 1948*

* Sheet B: Nonfloating, - 3 or more cuts to stations of known position.
Floating, - sextant fixes using nonfloating aid positions
Sheet D: Theodolite, sextant cuts & sextant fixes, using known horizontal control positions.
** (sheets destroyed)

SEE SUPPLEMENT TO REVIEW REPORT (Pg. 30) FOR RELOCATION OF LANDMARKS AND AIDS WITHIN SHEET LIMITS.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 have been submitted for eight (8) recoverable topographic stations and are forwarded with this report.

A list of recoverable topographic stations has been prepared and is included in paragraph 49.

39. JUNCTIONS

This manuscript joins with Surveys Nos. T-9286 and T-9284.

Junctions were made with these manuscripts.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

This manuscript was compared with the following Corps of Engineers, U. S. Army, quadrangles:

Port O'Connor, scale 1:125,000, dated 1913, revised 1929, reprinted 1942.
Blessing, scale 1:125,000, dated 1912, revised 1929, reprinted 1940.

This manuscript was also compared with air photo compilation No. T-5352 (1934) of this bureau.

47. COMPARISON WITH NAUTICAL CHARTS

This manuscript was compared with the USC&GS Chart No. 1284, scale 1:80,000, published at Washington, D. C., January 1945 (4th edition) corrected to 12 September 1949.

The MHWL of Greens Bayou, a major topographic change within the area of this survey, is subject to continual shifting. Refer to page 17 of the field report for a discussion of this area. *(Note made on manuscript)*

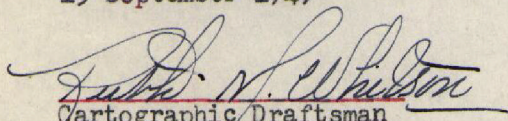
Items to be Applied to Nautical Charts Immediately:

None.

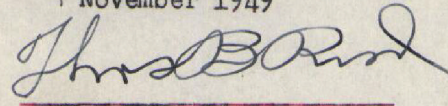
Items to be Carried Forward:

None.

Respectfully submitted
15 September 1949


Cartographic Draftsman

Approved and forwarded
9 November 1949


Officer in Charge
Baltimore Photogrammetric
Office

49. NOTES FOR THE HYDROGRAPHER (form 524)

The following are the recoverable topographic stations on this survey:

- * AERO BEACON, 1948 ✓
- ↓ * HALFMOON REEF LIGHT, 1947
- ↓ - * MATAGORDA BAY RANGE 'B' FRONT LT., 1947 ✓
- ↓ - MATAGORDA BAY RANGE 'B' REAR LT., 1947 ✓
- ↓ - * MATAGORDA BAY RANGE 'C' FRONT LT., 1947 ✓
- ↓ - * MATAGORDA BAY RANGE 'C' REAR LT., 1947 ✓
- ↓ - MATAGORDA BAY RANGE 'E' FRONT LT., 1947 ✓
- ↓ - MATAGORDA BAY RANGE 'E' REAR LT., 1947 ✓

* Position changed during review. Form 524 corrected.

- Position ^{changed} as result of 1950 field observations. Forms ^{LTS} 524 corrected. S.J.H.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T-9285

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

- 27. Roads JWW
- 28. Buildings JWW
- 29. Railroads JWW
- 30. Other cultural features JWW

BOUNDARIES

- 31. Boundary lines _____
- 32. Public land lines _____

MISCELLANEOUS

- 33. Geographic names JWW
- 34. Junctions JWW
- 35. Legibility of the manuscript JWW
- 36. Discrepancy overlay _____
- 37. Descriptive Report JWW
- 38. Field inspection photographs JWW
- 39. Forms JWW
- 40. Joseph W. Donnell Reviewer
- Joseph Steinberg Supervisor, Review Section for 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:

50. REMARKS

1. The projection was printed on this manuscript as it appears on the published air photo compilation No. T-5352. There are no state grids on this manuscript.
5. The triangulation stations were printed on this manuscript. The substitute points were plotted graphically.
- 8, 13, 14, 15, 17, 29, 30. None of these features exist in the area.
9. The plotting of the sextant fixes on planetable sheets B & D were not checked in the compilation office.
10. There was no formal photogrammetric plot.

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

14 Sept. 1949

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

The positions given have been checked after listing by

Joseph W. Vonasek

Thos. B. Keed

Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	CHARTS AFFECTED				
				LATITUDE		LONGITUDE				HARBOR CHART	INSHORE CHART	OFFSHORE CHART		
				°	'	°	'						D. P. METERS	
TEXAS														
	BUOY 31	MATAGORDA BAY	Buoys "31" - "111" have	28	32	1683.0	96	12	1410.	N. A. Planetable Sheet B 1927 Sextant Flx	Dec. 1947	X X	1284	889
	" 32	"	been discontinued *	28	32	1735	96	12	1452	"	"	X X	"	"
	" 34	"	see L 251 (51)	28	32	1365	96	13	50	"	"	X X	"	"
	" 35	"	H. D. Henderson	28	32	994	96	13	230	"	"	X X	"	"
	" 36	"		28	32	1012	96	13	315	"	"	X X	"	"
	" 37	"		28	32	613	96	13	482	"	"	X X	"	"
	" 38	"	* Old buoys removed & new buoys established.	28	32	660	96	13	528	"	"	X X	"	"
	" 40	"	For location of new buoys see Chart Ltr. 66(1952).	28	32	277	96	13	780 1009	"	"	X X	"	"
	" 41	"		28	31	1692	96	13	1009	"	"	X X	"	"
	" 42	"		28	31	1751	96	13	1042	"	"	X X	"	"
	" 43	"		28	31	1365	96	13	1195	"	"	X X	"	"
	" 44	"		28	31	1390	96	13	1277	"	"	X X	"	"
	" 46	"		28	31	1027	96	13	1515	"	"	X X	"	"
	" 47	"		28	31	708	96	14	55	"	"	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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~NON~~FLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED }
~~TO BE DELETED~~ }

STRIKE OUT ONE

Baltimore, Maryland

14 September, 1949

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(detached 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		DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE ° ' "	LONGITUDE ° ' "							
TEXAS	BUOY 48	MATAGORDA BAY		28 31	96 14	N.A. 1927	Planetable	Dec. 1947	X	X	X	1284
"	49	"		28 31	96 14	"	"	"	X	X	X	889
"	50	"		28 31	96 14	"	"	"	X	X	X	"
"	52	"		28 31	96 14	"	"	"	X	X	X	"
"	53	"		28 31	96 14	"	"	"	X	X	X	"
"	54	"		28 31	96 14	"	"	"	X	X	X	"
"	55	"		28 30	96 14	"	"	"	X	X	X	"
"	57	"		28 30	96 15	"	"	"	X	X	X	"
"	58	"		28 30	96 15	"	"	"	X	X	X	"
"	60	"		28 30	96 15	"	"	"	X	X	X	"
"	62	"		28 30	96 15	"	"	"	X	X	X	"
"	63	"		28 30	96 15	"	"	"	X	X	X	"
"	65	"		28 30	96 15	"	"	"	X	X	X	"
"	66	"		28 30	96 15	"	"	"	X	X	X	"

SEE NOTE, PAGE 15

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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

14 Sept. 1949 19

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

The positions given have been checked after listing by

Joseph W. Venasek

Thos. B. Reed

Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE						
				°	'	°	'					
BUOY 67	TEXAS	MATAGORDA BAY		28	30	96	16	290.0	N.A. Sheet B 1927 Sextant Fix 1947	Dec.	X X	1284 889
" 68	"	"		28	30	96	16	350.0	"	"	X X	"
" 70	"	"		28	29	96	16	730.0	"	"	X X	"
" 72	"	"		28	29	96	16	1109.0	"	"	X X	"
" 73	"	"		28	29	96	16	1352.0	"	"	X X	"
" 74	"	"		28	29	96	16	1410.0	"	"	X X	"
" 75	"	"		28	29	96	17	68.0	"	"	X X	"
" 76	"	"		28	29	96	17	104.0	"	"	X X	"
" 77	"	"		28	29	96	17	470.0	"	"	X X	"
" 78	"	"		28	29	96	17	498.0	"	"	X X	"
" 79	"	"		28	29	96	17	809.0	"	"	X X	"
" 80	"	"		28	29	96	17	842.0	"	"	X X	"
" 81	"	"		28	29	96	17	1208.0	"	"	X X	"
" 83	"	"		28	28	96	17	1533.0	"	"	X X	"

SEE NOTE, PAGE 15

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

14 Sept. 1949.

Baltimore, Maryland

I recommend that the following objects which have ~~been~~ ^{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

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. M. METERS	D. P. METERS				
TEXAS	BUOY 85	MATAGORDA BAY		28	28	96	18	1497.	216.	N.A. 1927	Dec. 1947	X X	1284
"	" 87	"		28	28	96	18	1260.0	579	"	"	X X	889
"	" 89	"		28	28	96	18	962.0	940	"	"	X X	"
"	" 91	"		28	28	96	18	667.1	1383	"	"	X X	"
"	" 93	"		28	28	96	19	317.0	210	Planetable Sheet D Sextant Fix	Jan. 1948	X X	"
"	" 97	"		28	28	96	19	233.0	432.	"	"	X X	"
"	" 99	"		28	28	96	19	90.0	860.	"	"	X X	"
"	" 101	"		28	27	96	19	1815.0	1253	"	"	X X	"
"	" 102	"		28	28	96	19	3	1297	"	"	X X	"
"	" 103	"		28	27	96	20	1579.0	120	"	"	X X	"
"	" 104	"		28	27	96	20	1680	118	"	"	X X	"
"	" 105	"		28	27	96	20	1482.0	422	"	"	X X	"
"	" 106	"		28	27	96	20	1544.	452	"	"	X X	"
"	" 107	"		28	27	96	20	1401.	717	"	"	X X	"

SEE NOTE, PAGE 15

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T-285

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Washington, D. C. Feb. 28, 1951

I recommend that the following objects which have ~~(been not)~~ 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 K. N. Maki

S. V. Griffith
Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE		LONGITUDE								DATUM
				°	'	°	'							
Lt.		Matagorda Bay Range B Front	Applied to Ch. 889 K. D. Henderson	28	31	96	14	488	NA 1927	T-9285 #Frings. Feb. 1951 *Threadlike*	X		1284	
"		" " B Rear	"	28	29	96	15	421	"	"	X		"	
"		" " C Front	"	28	31	96	13	1050	"	"	X		"	
"		" " C Rear	"	28	32	96	12	188	"	"	X		"	
"		" " D Front	"	28	28	96	19	733	"	"	X		"	
"		" " E Front	"	28	28	96	18	1312	"	"	X		"	
"		" " E Rear	"	28	28	96	17	651	"	"	X		"	
<p>*Computations to be verified by Geodesy SJH</p> <p>These positions supersede the positions for the same lights in Chart Letter No. 150 (1948) p. 19</p> <p>* 4TH ORDER</p> <p>CHART LTR L-182 (1951)</p>														

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

NON-FLOATING AIDS-OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE DELETED

STRIKE OUT ONE

Port Lavaca, Texas

22 June, 1950

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 S. J. Hathorn

George E. Morris, Jr.

Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE							
				°	'	D. M. METERS	°						
RADIO** TOWER	TEXAS	Cage tower, painted white & red, 113' high (2 red lts. on top)		28 27	(1331) 516 (16.7")	96 17	(1052) 582 (21.4")	N.A. 1927	June 1950	X			889 1284
		* 4th order cuts from triangulation stations.											
		** Probably Southwest Association Telephone Co., Domestic, Common Carrier Group,											
		Fixed Rural Subscriber, Call Sign - KAB 26, Frequency 157830 Kilocycles.											
		NOTE: Airport Beacon Immediately North of Radio Tower Inoperative.											

CHART LTR 66 (1952)

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.

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			LATITUDE		LONGITUDE							
			°	'	°	'						
BN "2"	HALFMOON REEF DUMP DAYBEACON 2		28	31	(1186)	(1132)	N.A.	1927				889
BN "3"	" "	3	28	31	(860)	449 (696)	"	"			X	1284
BN "4"	" "	4	28	31	(676)	935 (913)	"	"			"	"
LIGHT	HALFMOON REEF LIGHT		28	32	432.5	718	N.A.	1927			"	"
	* 4TH ORDER THEODOLITE CUTS FROM TRIANGULATION STATIONS.											

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C O P Y

DEPARTMENT OF COMMERCE
U. S. Coast & Geodetic Survey
Airport Branch Post Office
Brownsville, Texas

27 June 1950

To: The Director
U. S. Coast and Geodetic Survey
Washington 25, D. C.

Subject: Investigation of Aids to Navigation

Reference: Letter 78-rs dated 17 May 1950

A field investigation of aids to navigation was made from 12 June to 19 June 1950.

Existing Bureau triangulation stations were recovered and occupied with theodolite. Non-floating aids and landmarks were cut in from these stations. In a few instances where Bureau stations were not available, stations established by the U.S.E. were occupied. Stations were observed from either a ground set-up, or from a portable twelve foot tower.

In order to get third order positions of all fixed aids, it will be necessary to build towers, averaging 20 feet high, at all C&GS triangulation stations occupied. Some night observations will be needed in locating the U.S.E. stations used for control.

It is recommended that the present work be evaluated, and if additional work be required the entire party stop at Port Lavaca enroute to Mississippi to accomplish the work.

A rough plot on the U.S.E. "hard sheet" of Lavaca Channel indicates that our observations check U.S.E. positions of the lights. Of course, we depend on their positions of "DODO 2" and "1/27.6".

Floating aids and daybeacons have been located by sextant positions. This type of aid changes position frequently because of damage by heavy barge traffic. Daybeacons are knocked out and replaced in approximate position. Floating aids are often dragged off station. Many charted aids were not there at the time of field work.

The Aluminum Company of America has built a large plant at Point Comfort and a housing project called Point Comfort Village. Local authorities would not release plans showing building locations. These can be obtained only from the Pittsburg headquarters. The Point Comfort Works Tank and the Point Comfort Village Tank have been cut in by theodolite and are recommended for charting.

CHART LTR 66 (1952) & CHART LTR 182 (1951)

C O P Y

The Director

-2-

27 June 1950

The Central Power and Light Company has constructed a 69,000 volt aerial transmission line across Lavaca Bay at a location northwest and approximately parallel to the State Highway No. 35 causeway and approximately three miles northeast from Port Lavaca. The line has a 70 foot clearance above mean low tide opposite the draw span of the bridge. On demand from the U.S.E. District Engineer or his authorized representative the owner shall at his own expense remove or raise the lines to allow vessels to pass through the proposed channel over which the lines are placed.

This power line has been located by theodolite cuts and sextant fixes. It is sketched on the Port Lavaca aluminum mounted sheet.

All aids and landmarks north of Port Lavaca Channel Light 41 have been sketched on the Port Lavaca aluminum mounted sheet.

All aids and landmarks in Matagorda Bay have been sketched on double weight prints of T-9285 and T-9284.

Duplicate copies of recovery notes, form 526, are included for all stations searched for.

Original copies of descriptions of triangulation intersection station, form 525b, are included for all stations for which positions can be computed.

The wells and header platform in Matagorda Bay could not be seen from our ground stations. The Lavaca Pipe Line Company field engineer says that the header platform has a light on it. Platforms over the wells do not have lights. More wells are being drilled. A platform is built over each well and an underwater pipe laid to the header platform. An underwater pipe line has been laid from this header platform to the Point Comfort Works of the Aluminum Company of America. Piling are being driven along this pipe line. They will not be numbered but will have green reflectors on them. The geographic position of the header platform shown on one of the three blue-prints showing this pipe line has been obtained from cuts taken from C&GS triangulation stations.

On one print we have identified piling along this pipe line with letters A through Q to clarify our theodolite and sextant cuts. Further work was not done because some of the beacons may be moved. They will be privately maintained.

Two plats showing the fence layout and pipe line right-of-way for the Point Comfort Works are included. No other plans could be obtained locally.

Lambert coordinates for U.S.E. stations and aids are included. If it is possible, the Resident Engineer of the Port Lavaca Field Office would like the positions of all aids computed from our field observations.

S/ George E. Morris, Jr.
Commander, U.S.C.&G.S.
Chief of Party

48. GEOGRAPHIC NAMES

- ✓ Cotton Bayou ✓
- ✓ Fence Bayou ✓
- ✓ Flagg Bayou ✓
- ✓ Greens Bayou ✓
- ✓ Gulf of Mexico ✓
- ✓ Hilberts Bayou ✓
- ✓ Intracoastal Waterway ✓
- ✓ Matagorda Bay ✓
- ✓ Matagorda Peninsula ✓
- ✓ Poca Aqua (Bayou) ✓
- ✓ Matagorda Peninsula Air Field ✓

Geographic names were taken from standard furnished by the Washington Office dated 18 July 1949.

Names approved

11-14-50

a. j. w.

Review Report T-9285
Shoreline Survey
13 November 1950

61. The airfield and the aero beacon on T-9285 retain the names in use at the time of field inspection (Dec. 4, 1947 to Jan. 5, 1948). *As of the date of this report the name of field and beacon is Matagorda Club Airport. The beacon is not in use.*
The northward extension of the projection was redrawn during review.

62. Comparison with Registered Surveys.-

T-643	1:20,000	1856
T-5352	"	1934 (used as base for T-9285)
T-6659a	"	1938 (Graphic control)

63. Comparison with Maps of Other Agencies.-

USE Port O'Connor (Tactical) 1:125,000 ed. 1912-13 rev. 1929
 USE Blessing (Tactical) 1:125,000 ed. 1912-13 Rev. 1929
 Not comparable in time or scale.

64. Comparison with Contemporary Hydrographic Surveys.-None

65. Comparison with Nautical Charts.-1284 1:80,000 ed. Jan. 1945, rev. March 1950

A. Differences:

1. The numbering system for floating aids northward from No. 55 is not in the same series of numbers on ~~the~~ Chart (Chart Ltr 251(51) 1284.
2. The "Spoil area" charted along the navigation channels is not on the map manuscript. No field data were furnished and no spoil areas are visible on the photographs.
3. The Cable Area charted between Matagorda Peninsula Air Field and Port O'Connor (on T-9284) is not on the map manuscript. No data were furnished.
- * 4. Distance between lights, as determined by this survey and the Light List:

<u>T-9285</u>	<u>Light List</u>	
Range B	3116 yds.	2935 yds.
Range C	3318 yds.	3160 yds.
Range E	2300 yds.	2320 yds.

- * 5. Range D Front Light is not ^{shown} ~~entered~~ on the map manuscript. The field inspector did not record it (Ch. Let. No. 150, 1948, p.19 and planetable sheet "D"), and it is not visible on the photographs, though it is still (1950) included in the Light List.

* SEE SUPPLEMENT TO REVIEW REPORT.

The existence and position of this light
needs verification.

- * 6. The angle for Range E is 10 minutes greater than that recorded in the Light List.

B. Changes During Review

- * 1. The following lights were replotted:
 Matagorda Bay Range B, Front
 " " " C, Front
 " " " C, Rear
 The forms 524 were corrected.

- * 2. Range lines B and C-D were redrawn. They now agree with the Light List values.

66. Accuracy.-Shoreline and planimetric delineation are adequate for charting purposes.

* Lights and range lines are as accurate as available data allow. During the summer of 1950, a photogrammetric party under Comdr. Morris made a triangulation survey which included the Matagorda Bay area. The correct geographic position for lights will be available from Geodesy** after the necessary computations have been made.

Buoys, lights, etc., are shown on this manuscript
 Reviewed by: and the vault copy in the 1950 positions
See next page of this report "Supplement to Review Report."
Lena T. Stevens
 Lena T. Stevens

APPROVED

S. V. Griffith 1/26/53
 Chief, Review Section
 Div. of Photogrammetry

J. H. Edmonson
 Chief, Nautical Chart Branch
 Division of Charts *6W*

O. S. Reading
 Chief, Div. of Photogrammetry

Earl O. Heaton
 Chief, Div. of Coastal Surveys
ERF

* SEE SUPPLEMENT TO REVIEW REPORT.
 ** COMPUTED BY PHOTOGRAMMETRY.

Supplement to Review Report
for
Shoreline Manuscript T-9285
18 February 1952

This supplement covers a field investigation of aids to navigation made by George E. Morris, Jr. in June 1950. The investigation was subsequent to the original field work reported in Chart Letter 150 (1948) by Ross A. Gilmore, and was necessitated because the original planetable location of aids in 1948 of 1:40,000 scale did not agree with the charted channels or with the radially plotted positions of aids from photographs.

67. Landmarks and Aids.

Landmarks and lighted aids were located by 4th-order theodolite observations from triangulation stations, were computed on the Texas South Central Coordinate System, and plotted on the manuscript after construction of a 10,000-foot interval grid. Day beacons and floating aids were located by sextant positions and plotted on the manuscript with a three-arm steel protractor. All fixes were reasonably strong and at least one check angle was provided for each aid.

A. Landmarks. - A revised position for AERO BEACON 1948 was reported in Chart Letter 182 (1951). Charting information for a new landmark, RADIO TOWER, was reported in Chart Letter 66 (1952).

B. Lights. - Corrected positions for all range lights were reported in Chart Letter 182 (1951). The 1950 field position for Halfmoon Reef Light agreed with the corrected position determined by the reviewer and was reported in Chart Letter 66 (1952). Positions on the Forms 524 for these lights were corrected.

C. Beacons and Buoys. - Halfmoon Reef Dump Daybeacon 1 was not located during the 1950 field investigation, probably because the aid was temporarily out. All other beacons and buoys shown on the manuscript were located during the 1950 field investigation and were reported in Chart Letter 66 (1952).

FIELD OBSERVATIONS DESTROYED.

- 2 -

D. Discrepancies in Range Data

	1950 Light List		1950 Field Data	
	<u>Distance</u>	<u>Azimuth</u>	<u>Distance</u>	<u>Azimuth</u>
Range B	2935 yds	213 $\frac{1}{2}$ °	3092 yds	213° 37'
Range C	3160 "	55 °	3323 "	54° 50'
Range D	3160 "	235 °	3452 "	235° 00'
Range E	2320 "	69 °	2683 "	69° 00'

Submitted by:

Approved by:

Stanley J. Hathorn
Stanley J. Hathorn
Reviewer

S. V. Griffith
S. V. Griffith
Chief, Review Section
Div. of Photogrammetry

Applied to 889 - 10/31/50 - Kuter

" " 890 - 10/30/50 M. Stuebel

" " 889 - 8-51 H.D. Henderson