

4872

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } Sheet No. **T 4872**
~~Hydrographic~~

State Texas

LOCALITY

La. Corpus Christi Bay and a

La. Quinta to Mustang Island

1934

CHIEF OF PARTY

Earl O. Heaton

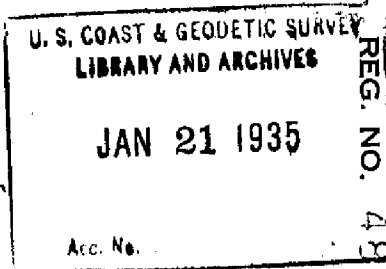
U. S. GOVERNMENT PRINTING OFFICE: 1934

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Graphic Control

~~Applied to chry. Oct. 1286 Dec. 1935 J.B. Maize~~
See des. rept. T. 5367

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY



TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. T 4872

REGISTER NO.

State Texas

General locality Corpus Christi Bay

Locality La Quinta to Mustang Island part of Mustang Island

Scale 1 : 20,000 Date of survey June & July, 1934

~~Vessel~~ Project HT-118

Chief of party Earl O. Heaton

Surveyed by Somers, J. W.

Inked by Somers, J. W.

Heights in feet above M.H.W. to ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval _____ feet

Instructions dated Nov. 5, 1932 & Nov. 16, 1933, 19____

Remarks: _____

DESCRIPTIVE REPORT
TO ACCOMPANY PLANE-TABLE CONTROL SHEET "T"
LA QUINTA TO MCGLOIN BLUFF AND A PART OF MUSTANG ISLAND
Surveyed June & July 1934
E. O. Heaton, H. & G. Engineer, Chief of Party
J. W. SOMERS, Topographer
Instructions dated November 5, 1932 & Nov. 16, 1933

Purpose of Survey:

This survey was executed primarily to furnish supplemental control for hydrographic work, and secondarily to aid in the control of photo topographic sheets, Register Nos. 5367 & 5368, compiled by Ensign T. M. Price. If it had not been desirable to start hydrographic work before the photo compilation had been completed this sheet would not have been necessary. In addition to signals located for hydrography, the low water line was established and in places the high water line was obtained as an aid in compilation of the photographs. A few plane table positions were used from this sheet as control for the photo compilation.

General Description of the Coast:

The description of the coast of Corpus Christi Bay from La Quinta to McGloins Bluff is adequately covered by the report on Photo Topographic Sheet, Register No. 5367. The coastline of the Gulf of Mexico (Mustang Island) is covered by the report of Photo Topographic Sheet, Register No. 5368. The following aids to navigation are located on this sheet; Corpus Christi Channel Beacons #3, 5, 2, 7, 4, 9, 6, 11, 13, 15, 8, 17, 19, 10, and a day beacon on the long reef west of McGloin Bluff. Other beacons and aids to navigation plotted on this sheet are accounted for in the descriptive reports for Topographic Sheet U and Hydrographic Sheet #4.

Landmarks:

Building -- east chimney of La Quinta Club, 25 ft. high.
Cupola ---- Old Ingleside Inn, Ingleside on the Bay.

Character of Control:

Sheet "T" is controlled by 30 second and third order triangulation stations and by plane table traverse.

Closing Errors of Traverse and Method of Adjustment:

Δ Knoll to Δ Herd	9 meters	2.7 miles
o Stake (3 pt. fix) to Δ Knoll	11 "	2.1 "
Δ McGloins Bluff to Δ Donnel	11 "	3.0 "
Δ Donnel to Δ Quintana	0 "	3.3 "

These traverse lines were adjusted as prescribed on page 57 of U.S. C. & G. S. publication #144. The line from Δ Donnel to Δ Quintana was adjusted in the field by rerunning the line to a point of agreement.

Comparison with other Surveys:

The work on this sheet was compared with Photo Topographic Sheets, Register Nos. 5367 & 5368 and was found to agree.

Geographic Names:

New names and changes in old names are not discussed in this report. See reports for Photo Topographic Sheets, Register Nos. 5367 & 5368.

List of Plane-Table Positions:

Club ----- east chimney, La Quinta Club.
Post ----- 4" x 4" concrete post, S. side of drainage ditch.
Rice ----- windmill, 25 ft. high.
Water Tank ----- Lat. 27° 50.1', Long. 97° 13.3'.
Day beacon ----- day beacon, which is a rectangular, slatted signal
on a 12" pile, 25 ft. high.

Yucca Plant ----- Lat. 27-46.4; Long. 97-08.5.

Changes in the Coastline:

The shoreline on this sheet was compared with the shoreline on chart #1286, which was taken to represent the latest previous survey. This comparison shows the shoreline from La Quinta to 4 Donnel has receded from zero to about 85 meters. The NW end of the peninsula NW of McGleoin Bluff has receded about 240 meters. For further comparison see reports for Photo Topographic Sheets, Register Nos. 5367 & 5368.

Character of Marshes:

See reports for Photo Topographic Sheets, Register Nos. 5367 & 5368.

Dates on Triangulation Stations:

Two dates are shown on this sheet for stations which have been recovered. The date of original establishment is shown in parenthesis and the last date of occupation is also shown. This was done because the datum was changed in 1927. The last date is the one which represents the plotted position.

Inspected and approved:

Earl O. Heaton
Earl O. Heaton,
Chief of Party, C. & G. S.

Respectfully submitted,

J. W. Somers
J. W. Somers, Topographer

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Corpus Christi, Texas

January 14, 1935, 193

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

Carl O. Heaton
Earl O. Heaton

Chief of Party.

[illegible]

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstuffs and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
AIDS TO NAVIGATION
LANDMARKS FOR CHARTS

Corpus Christi, Texas

January 11, 1935, 193

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

The odd numbered beacons are FW.

The even numbered beacons are FR.

Earl O. Heaton
Earl O. Heaton

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	°	D.M. METERS	°	D.P. METERS			
CORPUS CHRISTI CH. BNS.					N.A.	Triangu-	
F "3" (Δ1934)	27 50	165.8	97 06	344.4	1927	lation	1286
F "5" (Δ1934)	27 49	1559.0	97 07	873.3	"	"	"
FR "2" (Δ1934)	27 49	1721.9	97 07	907.8	"	"	"
F "7" (Δ1934)	27 49	1096.5	97 08	1436.8	"	"	"
FR "4" (Δ1934)	27 49	1260.3	97 08	1470.8	"	"	"
F "9" (Δ1934)	27 49	641.7	97 10	323.9	"	"	"
FR "6" (Δ1934)	27 49	805.7	97 10	358.7	"	"	"
F "11" (Δ1934)	27 49	184.2	97 11	859.2	"	"	"
F "13" (Δ1934)	27 48	1560.1	97 12	1421.8	"	"	"
F "15" (Δ1934)	27 48	1094.9	97 14	367.1	"	"	"
FR "8" (Δ1934)	27 48	1262.6	97 14	401.6	"	"	"
F "17" (Δ1934)	27 48	1088.5	97 15	732.5	"	"	"
F "19" (Δ1934)	27 48	1080.4	97 16	1228.3	"	"	"
FR "10" (Δ1934)	27 48	1248.6	97 16	1228.4	"	"	"
BEACON							
Reef Marker (12" pile	27 -50	414	97 -15	1472	"	Toro	"

[Day Beacon (s)] slatted)

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

U.S. GOVERNMENT PRINTING OFFICE: 1934 25379

Checked and verified by:

J. H. Burney

REVIEW OF GRAPHIC CONTROL SURVEY T-4872 , SCALE $\frac{1}{20000}$,

Date of Review

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5367, , , with particular attention to the following details:

- (a) Projection has been checked in the Field.
- (b) Accuracy of location of plane table control points. ($\pm 5m$.)
- (c) Discrepancies between detail on this survey and the air photo compilations listed above. See Report (Review) T-5367
- (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above. None

2. ~~Refer to the reviews and descriptive reports of air photo compilations Nos. T- , , , for a more complete discussion of any errors or discrepancies found.~~

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Notes and corrections resulting from the review are shown on this survey in green.

W. M. Berry
July 25, 1933
Frank L. Evakine