

T-6707 19000

FORM 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic \ XIIXXXXXXXIIX

1. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

JUL 24 . 1940

ACC. M.

State TEXAS

LOCALITY

WEST GULF of Mexico

PORT ISABEL

193 9

CHIEF OF PARTY

G.C. MATTISON

U. S. GOVERNMENT PRINTING OFFICE

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 Letter T - 5

REGISTER NO. 6707 T6707

MEGISTER NO. 5751
State TEXAS
General locality West Gulf of Mexico
Locality Port Isabel
Scale1:10,000 Date of surveyJune, 19 39
Vessel HYDROGRAPHER
Chief of Party G.C. Mattison
Surveyed by P.A.Weber
Inked by P.A.Weber
Heights in feet above M.H.W. to ground to xtops to fixture as
Contour Approximate contour Form line intervalfeet
Instructions dated February 17, 1937
Remarks: Project HT 214
U. S. GOVERNMENT PRINTING OFFICE: 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

L. O. COLBERT, DIRECTOR

DESCRIPTIVE REPORT
TOPOGRAPHIC SHEET NO. 6707
WEST GULF
PORT ISABEL
TEXAS

SHIP HYDROGRAPHER GALVESTON, TEXAS

G.C.MATTISON CHIEF OF PARTY

.

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET 6707

AUTHORITY

Instructions dated February 17, 1937.

GENERAL

Topographic Features:

The sheet embraces the southern tip of Padre Island, the northern end of Brazos Island, Clark Island, and the town of Port Isabel.

Padre Island and Brazos Island are sand islands containing dunes of varying heights up to about 20 or 30 feet; these dunes, however, are shifting in position and are not useful as landmarks. Except on the clearest days there is a light haze over the islands that cuts down the visibility and makes objects on the islands indistinct.

Brazos Coast Guard Station, a surf station, is on the south end of Padre Island; besides the men at the station there are a few people living near the jetty, who operate a small store where bait can be bought and fishing tackle rented; there is also a hotel, of sorts, on the island for the accomodation of fishing parties.

There are a few people on Brazos Island at the jetty, who operate small stores where bait can be bought and fishing tackle rented.

The town of Port Isabel is a small fishing community and tourist center; there are a number of tourist camps and hotels here, which do a thriving business during the season because of the excellent fishing grounds in the vicinity. There is a deep water channel to the port, which can accomdate ocean going freighters, the maximum draft being about 30 feet. The port has warehouse facilities and an oil dock.

Clark Island is a small mud and sand island, with no vegetation except as shown along the southeast side. There are a few spoil banks to the southwest of Clark Island made upof mud from dredging.

The large island south of Port Isabel is bare mud with no vegetation except as noted, and was originally part of the mainland but became separated when the channel was dug. All areas outlines in pencil are mud mounds built up by spoil from dredging. The elevations shown were those that existed at the time of this survey; subsequent dredging will change these elevations.

The four steel towers, two on Padre Island; and two near the westbedge of the sheet, are dredging ranges and have no bearing on the navigation of the channel. They are about 30 ft. high.

GENERAL (Cont'd)

Hydrographic Features:

The area between the jetties is known as Brazos Santiago, which is a dredged area leading into the dredged channel to Port Isabel and Brownsville. There are lighted entrance ranges for the pass and numerous day beacons on the IW side of the channel to aid in navigation. Ships, however, do not enter the channel after dark as it is very narrow.

Laguna Madre is a large body of shallow water lying west of Padre Island, with depths in places up to about six feet. It is navigable by shallow draft boats with experienced guides.

The small channel south of Port Isabel is used by fishing boats, which enter it from the main ship channel at the west end. The east end of this channel is very shallow and used only by small boats. From observation it appears that this channel is filling up at the east end.

The yacht basin is used by small yachts thatenter from the north; there is no outlet to the south as both highway and railroad bridges are fixed.

LANDMARKS

The only useful landmark on the sheet is Pt. Isabel L.H. a day beacon. It has already been reported.

CONTROL

The sheet is well controlled by numerous triangulation stations, visible over the entire area.

Standard methods were used; where visibility was poor a 300 foot steel tape was used to measure to planetable setups.

GEOGRAPHIC NAMES

All names shown in ink on the sheet are well established and were verified in the field.

South Bay, the name given to the body of challow water south of Clark Island is part of Laguna Madre and became partially separated from the main body when the ship whannel was dredged and the spoil banks thrown up. This name is well established locally, it is based on information received from the Officer in Charge at the Coast Guard Station, he has been in this area for 27 years; also from "Uncle Jim" a well known local character who lives on Padre Island at the jetty.

MISCELLANEOUS

While the topography was being done, the Army Engineers

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MISCELLANEOUS (Cont'd)

had commenced dredging operations in the channel; it was planned to make some changes in the area around the docks at Port Isabel.

The low water line on the Gulf side of Padre Island and Brazos Island is not over ten meters from high water line and is indicated approximately by sand symbol.

The low water line on the west side of Padre Island

is definite and is shown as such.

All other from water lines are approximate or indefinite as the slope of the beaches is so gradual and water so shoal as to make definite determinationalmost impossible.

Respectfully submitted

Philip a. Weter Philip A. Weber Topographer

Forwarded Approved:

Chief of Party.

WAR DEPARTMENT U. S. Engineer Field Office Brownsville, Texas

April 29, 1940

Department of Commerce, V. S. Coast & Geodetic Survey, Pensacola, Florida.

Dear Mr. Weber:

The two steel towers on Padre Island and the two on the prolongation of the Port Isabel Channels mark the center line of the channel across the bay and to Port Isabel, respectively. We designete them as center line channel ranges and use them for making surveys, soundings in the channels and for dredging purposes.

Padre Island Ranges

Front Range

Height above ground, 24.0 feet Height above mean low tide, 27 feet

Rear Range

Height above ground, 33.5 feet Height above mean low tide, 39.9 feet

Port Isabel Channel Ranges

Front Hange

Reight above ground, 25.0 feet Reight above mean low tide, 27.0 feet

Rear Range

Reight above ground, 35.1 feet Height above mean low tide, 40.0 feet

The steel storm signal tower at Port Isabal extends 48 feet above the ground and the flag staff extends 25 feet higher or a total of 73 feet above the ground. The total height above mean low tide is 82 feet.

***Monuments**

North Zero

7" x 7" perpendicular concrete shaft extending 39" above the ground with a U.S.E.D. brass cap setting flush in top of shaft. Monument is used for triangulation purposes.

Patro

Concrete cast around a $2\frac{1}{8}$ pipe, on top of a sand dune, with a 9" x 9" top and mushroom bottom. A U.S.E.D. brass cap is set in top of monument. The monument is used for triangulation purposes. Due to shifting sand the monument protrudes about 2 feet above the sand, being held in place by the $2\frac{1}{8}$ " pipe, which was originally driven to a depth of 10 feet in the sand dune.

No. 6

A flat mushroom type concrete monument setting flush with the ground and having a reinforcing bar in the center. The number 6 is written in the concrete thusly: "6". This monument is one of the government property markers.

You asked for Monument No. 9 but we believe you might have mistaken Monument No. 6 for 9.

The channels across the bay and to Fort Isabel and Brownsville was dredged to a required depth of 30.0 feet below mean low tide: The project depth calls for 23.0 feet. The Port Isabel Turning Basin has not as yet been enlarged and probably will not be for at least a year or so unless the pending bill in Congress is approved before the dredge leaves this vicinity. The bill includes the proposed enlargement of the turning basin to 1,000 by 1,300 feet.

I am sorry we did not get this information to you at an earlier date however we hope it will be of some service to you. Thank you for the information concerning the topographic sheet.

Very truly yours,

Wayne M. Murphy. Asst. Engr.

Statistics for Topographic Sheet T-6707.

- 41.6 Statuate miles Shoreline.
- 0.95 Statuate miles docks and bridges.
- 2.3 Statuate miles Highways.
- 1.2 Statuate miles Railroads.

Remarks

Decisions

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GEOGRAPHIC NAMES Survey No. T6'	707	Cho. C	No No O	Land Brand	or in a single of the single o	C. C	Q. Cuide	A Sound Wind	J.S. Jaki	, .jš /
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Brownsville Channel		<u> </u>						-		3
Clark Island				ļ				_	ļ	4
Gulf of Mexico	<u> </u>		_					_	ļ	5
Laguna Madre					<u> </u>	<u> </u>	<u> </u>		<u> </u>	6
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MEMORANDUM IMMEDIATE ATTENTION

		received July 24, 1940
SURVEY DESCRIPTIVE REPORT	Maxxibix	registered July 27, 1940 verified
PHOTOSTAT OF	No. T $T6707$	reviewed approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

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RETURN TO

82 T. B. Reed

V JBR

Form 567 Rev. March 1935

TO BE CHARTED

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY LEMONARKECHOR MEKARTER

COAST PILOT SECTION

MON-FLOATING AIDS TO NAVIGATION Pensacola, Blorida

STRIKE OUT ONE

TO BE DELETED

March 23, 1940 193

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

G.C. Mattigon

The positions given have been checked after listing.

GENERAL WOST	West Gulf Pares				į	POSITION	NO.						TRAH	
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This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be Information under each column heading should be given. considered for the charts of the area and not by individual field survey sheets.

U. S. GOVERNMENT PRINTING OFFICE

DIVISION OF CHARTS

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6707 (1939) FIELD NO. T-5

Texas, Gulf of Mexico, Port Isabel Surveyed in June 1939, Scale 1:10,000 Instructions dated February 17, 1937, and the Director's letter dated January 5, 1939.

Plane Table Survey

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Aluminum Mounted

Chief of Party - G. C. Mattison. Surveyed by - P. A. Weber. Inked by - P. A. Weber. Reviewed by - Leo S. Straw, October 2, 1940. Inspected by - H. R. Edmonston.

1. Junctions with Contemporary Surveys.

The junctions on the north and south with T-6706 (1939) are satisfactory.

2. Comparison with Prior Surveys.

T-453 (1854), 1:20,000; T-1045 (1867) 1:20,000; T-3673 (1917).

Sections of these surveys cover the area of the present survey. The natural and artificial changes have been so extensive in this area that a detailed comparison between the old and new surveys is unwarranted. Radical changes in the shoreline have occurred, due to the construction of jetties at Brazos Santiago, harbor improvements in and south of Port Isabel, and the dredging of the Brownsville channel. These operations have formed several sand and mud islands and have altered the shape of other islands - Clark Island and Long Island are good examples.

There is no information of current charting value on these old surveys and they should be disregarded.

- 3. Comparison with Chart No. 1288 (New print dated Nov. 3, 1939)
 - a. Topography.

The topography on the chart is based principally on Port Isabel Quadrangle, 1929, U. S. Geological

Survey, reported information and U. S. Engineers' surveys.

b. Aids to Navigation.

The charted aids to navigation are in substantial agreement with the present survey, except that day beacon No. 8 is missing on the present survey.

Geographic Names. C.

Because of the construction of Port Isabel channel and consequent filling in of the area to the east, thus changing the shape of Long Island, it is recommended that the name "Long Island" be removed from the chart.

Condition of Survey. 4.

- The present survey shows the completed jetties above high water, the ends of which are 130 meters for the north, and 75 meters for the south, shorter than the outer limits on the U. S. Engineers' survey blue print No. 27894 (1934). It is recommended that the dashed portions of these jetties on the chart be made solid to the limits on the present survey and that beyond those limits they be retained dashed as from blue print No. 27894 (1934).
- The black line in lat. 26°03.83', long. 97°09.9' b. marked abandoned represents an abandoned railroad.
- 5. Compliance with Instructions for the Project. Satisfactory.
- 6. Additional Field Work Recommended. No additional field work is required.
- 7. Superseded Surveys.

T-453 (1854) in part T-1045 (1867) in part T-3673 (1917) entirely

Examined and approved:

B. Reed, Chief. Section of Field Records. Chief, Division of Charts.

Section of Field Work.

Chief, Division of H. & T.