**U. S. COAST AND GEODETIC SURVEY**
**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

**Type of Survey**
SHORELINE

**Field No.** Ph-14(46) **Office No.** T-9289

**LOCALITY**

**State**
TEXAS

**General locality** GULF INTRACOASTAL WATERWAY

**Locality** MAD. ISLAND REEF TO OLD GULF

**1947**

**CHIEF OF PARTY**
R. A. Gilmore, Chief of Field Party.
T. B. Reed, Baltimore Photogrammetric Office

**LIBRARY & ARCHIVES**

**DATE** Feb 9 - 1953
DATA RECORD

T - 9289
(revision of T-5358)

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

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

Photogrammetric Office (III): Baltimore, Md.  Officer-in-Charge: Thos. B. Reed

Instructions dated (II) (III):
(no date): Supplement 1,
22 July 1947, Letters dated 5 June 1947,
29 July 1947, 4 February 1949 and 20 July 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): 11-1-49  Date reported to Nautical Chart Branch (IV): 12-27-49

Date registered (IV): 2-4-52  

Publication date (IV): (Date of Issue July 1952)

Vertical Datum (III): M. H. W.

Mean sea level except as follows:
Elevations shown as (29) refer to mean high water
Elevations shown as (28) refer to sounding datum
i.e., mean low water or mean lower low water

Referece Station (III): DEVIL, 1934

Lat.: 28° 39' 25.207" (776.0m):  Long: 96° 01' 12.005" (326.0m)

Plane Coordinates (IV):

Y =

X =

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
Date: Nov. 1947

Planetary contouring by (II):
Date:

Completion Surveys by (II):
Date:

Mean High Water Location (III) (State date and method of location):
Same as date of photographs.
Located on field photographs.

Projection and Grids ruled by (IV): On original manuscript T-5358
Date: 1934

Projection and Grids checked by (IV): On original manuscript T-5358
Date: 1934

Control plotted by (III): Ruth R. Hartley
Date: 8-18-49

Control checked by (III): Frank J. Tarcza
Date: 8-18-49

Radial Plot

Contour extension by (III): L. A. Senasack
Date: 7-27-49

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Manuscript delineated by (III): Ruth R. Hartley
Date: 8-23-49

Photogrammetric Office Review by (III): R. Glaser
Date: 10-20-49

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

Form T-Page 3
U. S. Coast and Geodetic Survey nine lens camera—focal length 2½"

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>18337-18340 incl. 11/21/46</td>
<td>1250</td>
<td>1:10,000</td>
<td>0.8' above MLW</td>
<td></td>
</tr>
<tr>
<td>18351-18359  &quot;  11/21/46</td>
<td>1319</td>
<td>1:10,000</td>
<td>1.0' above MLW</td>
<td></td>
</tr>
</tbody>
</table>

+1:20,000 reduction for delineation purpose

Tide (III)

From Predicted Tables

Reference Station: Galveston, Texas
Subordinate Station: Pass Cavallo
Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):
Baltimore Office

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 45 (revised)
Shoreline (More than 200 meters to opposite shore) (III): 26 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 40 statute miles
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 15 Recovered: 11 Identified: 10
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III): 3
Number of Temporary Photo Hydro Stations established (III): none

Remarks:

Ratio of Ranges | Mean Range | Spring Range
----------------|------------|----------------|
1.0            | 1.0        | 1.4            |
1.0            | 1.0        | 1.4            |

Date: 27 Dec. 1950

Date: 30 June 1952
Summary to Accompany T-9289

Shoreline survey T-9289, scale 1:20,000, (latitude 28° 37' to 46'; Longitude 95° 53' to 96° 06') is one of 75 maps in project Ph-14(46), Intracoastal Waterway, which consists of four parts.

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

T-9289 is one of the Part IV group, which consists of 14 maps (T-9284 to T-9297, inclusive), vicinity of Matagorda Bay, Texas.
Field Report
Shoreline Manuscript T-9289


Chart Letter No. 150 (1948). Filed in Nautical Chart Branch, Division of Charts.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR $y$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dog Island Reef BN. No. 5, 1934 **</td>
<td>G-2874</td>
<td>28 37 41.984</td>
<td></td>
<td>1292.5 (554.6)</td>
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<tr>
<td>Dog Island Reef BN. No. 3, 1934 **</td>
<td>G-2874</td>
<td>28 37 55.293</td>
<td></td>
<td>1501.9 (127.9)</td>
</tr>
<tr>
<td>Matagorda Co. Reclamation Sta. D, 1934</td>
<td>G-2874</td>
<td>28 39 35.142</td>
<td>Matagorda County</td>
<td>1081.8 (765.3)</td>
</tr>
<tr>
<td>Devil, 1934 **</td>
<td>G-2874</td>
<td>28 39 25.207</td>
<td></td>
<td>776.0</td>
</tr>
<tr>
<td>Traverse Sta. 491+261(USE)(MON.928)</td>
<td>Letter from C of E</td>
<td>28 38 53.814 (x-y), p.m. ch. 1, #1574004 (Orig. 1656.7 (190.4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traverse Sta. 490+931(USE)(MON.928)</td>
<td>G-2874</td>
<td>28 38 55.588</td>
<td></td>
<td>1263.0 (366.5)</td>
</tr>
<tr>
<td>Traverse Sta. 436+800.92(USE)(MON.12)</td>
<td>G-2874</td>
<td>28 42 16.746</td>
<td></td>
<td>1711.3 (135.8)</td>
</tr>
<tr>
<td>Texas Gulf Sulphur Co. East Stack, 1934</td>
<td>G-2874</td>
<td>28 44 28.141</td>
<td>208 ft high (not post)</td>
<td>1178.4 (451.1)</td>
</tr>
<tr>
<td>Piling(S.S. of Gulf), 1934 **</td>
<td>G-2874</td>
<td>28 42 19.313</td>
<td>Simply &quot;Piling, 1933&quot; 10 o'clock</td>
<td>215.5 (1331.6)</td>
</tr>
<tr>
<td>Gulf Municipal Water Tank, 1931 **</td>
<td>G-1252</td>
<td>28 43 36.745</td>
<td></td>
<td>1016.8 (612.0)</td>
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<tr>
<td>Matagorda Longitude Sta. 1911 **</td>
<td>G-1252</td>
<td>28 41 35.430</td>
<td></td>
<td>308.3</td>
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<tr>
<td>Sub. Pt. Devil</td>
<td></td>
<td></td>
<td></td>
<td>485.3</td>
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</table>

1 FT. = 304.8006 METER

COMPUTED BY: Ruth R. Hartley  
DATE: 7/14/49
CHECKED BY: R. Glaser  
DATE: 10/20/49.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR $\lambda$-COORDINATE</th>
<th>LONGITUDE OR $\phi$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUB.PT. TRAV.STA.491+261</td>
<td></td>
<td>N.A.</td>
<td>plotted graphically</td>
<td></td>
<td>removed during review</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>ZIPPIRAN'S HOUSE PEAK OF ROOF,1946</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>WATKINS HOUSE N. CHY., 1906</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAD ISLAND 2,1906</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>EPISCOPAL CH.SP. 1906</td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>METHODIST CH.SP. 1906</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* No information as to whether these stations still exist.

No positions available either plotted on original manuscript. (in the red print)
COMPILATION REPORT, T-9289

T-9289 is a revision of red line print Survey T-5358 (1934).

FIELD REPORT:

Refer to the Special Report, Cedar Lakes, Texas, to Aransas Pass, Texas, submitted by Ross A. Gilmore, January 1948.

PHOTOGRAMMETRIC PLOT REPORT

Refer to the descriptive report for T-9290.

31. Delineation

This manuscript was delineated by graphic methods only.

The compilation was accomplished by holding the detail common to the red line print of T-5358 and to the photograph reductions and making any necessary changes. In the area of the Colorado River south of the Intracoastal Waterway where common detail no longer existed, a partial radial plot was run.

There was very little field inspection and limits of marsh areas were difficult to delineate.

The manuscript has been revised only as far as photographic coverage would permit. A dashed purple line has been shown on the manuscript as this limiting line.

Delineation on the photographs would have been considerably facilitated if the reduced nine-lens prints had not been so heavily exposed.

32. Control

Identification, density, and placement of control was adequate.

33. Supplemental Data

A geographic names standard was furnished on a lithographic copy of T-5358 (1934).

34. Contours and Drainage

Inapplicable.

35. Shoreline and alongshore details

The shoreline inspection is considered adequate, although some portions of the shoreline required careful office interpretation.

One small section of approximate low water line was identified by the field party, and another small portion was delineated by analogy. No shoal lines were indicated by the field inspection and none were delineated on the map.
36. **OFFSHORE DETAILS**

No comment.

37. **LANDMARKS AND AIDS**

Form 567 for three of the four landmarks in the area of this map were forwarded to the Washington Office in January 1948. The positions of the four landmarks and the position of a buoy are being submitted on forms 567 with this report. The field party indicates that this buoy is frequently repositioned after being hit by tugs or barges.

38. **CONTROL FOR FUTURE SURVEYS**

Three recoverable topographic stations shown on the original survey have been left on the manuscript. Of these, no information was furnished for two.

Forms 524 are being submitted for one topographic station on the original manuscript and for two new stations.

39. **JUNCTIONS**

Junctions to the west with T-9287, to the East with T-9291, and to the south with T-9290, have been made and are in agreement.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

41 through 45

Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

None available.
47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with Nautical Chart No. 1284, scale 1:80,000, edition of September 1947 corrected to September 1948.

**Items to be Applied to Nautical Charts Immediately:**

None.

**Items to be carried forward**

None.

Respectfully submitted
24 August 1949

[Signature]
Cartographic Draftsman

Approved and forwarded
28 October 1949

[Signature]
Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric Office
49. **NOTES FOR THE HYDROGRAPHER**

The following recoverable topographic stations are on this map manuscript:

- AZIMUTH MARK MATAGORDA LONGITUDE STATION, 1947
- FLAG TOWER, 1947
- WEST STACK TEXAS GULF SULPHUR CO., 1947
PHOTOGRAMMETRIC OFFICE REVIEW
T-9289

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

CONTROL STATIONS,

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

ALONGSHORE AREAS
(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines  
32. Public land lines  

MISCELLANEOUS

33. Geographic names  
34. Junctions  
35. Legibility of the manuscript  
36. Discrepancy checker  
37. Descriptive Report  
38. Field inspection photographs  
39. Forms  

40. Raymond Glasser  
   Reviewer  
   Joseph Schenk  
   Supervisor, Review Section or 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.

43. Remarks:

Compiler  
Supervisor

M-3623-12
<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>STACK</td>
<td>West Stack—Texas Gulf Sulphur Co. Red Brick 205' high 207'</td>
<td>S.D. R. Mark</td>
<td>28 44</td>
<td>310</td>
<td>N.A. Radial Plot</td>
<td>1927</td>
</tr>
<tr>
<td></td>
<td>Texas Gulf Sulphur Co. East Stack, 1934—Red brick—207' high 205'</td>
<td></td>
<td>28 44</td>
<td>308</td>
<td>Triang. T-9289</td>
<td>1934</td>
</tr>
<tr>
<td>FLAG TOWER</td>
<td>U.S. Weather Bureau signal tower, 60' high</td>
<td></td>
<td>28 41</td>
<td>806</td>
<td>Triang. T-9289</td>
<td>1948</td>
</tr>
<tr>
<td>TANK</td>
<td>Gulf Municipal Water Tank, 110 ft. high</td>
<td></td>
<td>28 43</td>
<td>1131</td>
<td>Triang. T-9289</td>
<td>1931</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if reetermined, 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

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

The positions given have been checked after listing by ______________________

R. Glaser

<table>
<thead>
<tr>
<th>STATE</th>
<th>Texas</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>Description</td>
</tr>
<tr>
<td>BUOY</td>
<td>Colorado River crossing</td>
</tr>
</tbody>
</table>

(This buoy is frequently moved after being hit by barges or tugs.)

(Position recorded is as of date of field inspection)

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.
48. GEOGRAPHIC NAMES

Baxter Island
Big Hill
Bottle Island
Carmichael Ship
Colorado River
Crap Lake
Culver Cut

Deavers towns
Devils Elbow
Dog Island Reef

East Cutoff
East Floodgate
East Matagorda Bay
Egret Island

Field B

Gottschalk Lake
Gulf State

Intracoastal Waterway

Little Boggy Creek
Matagorda
Matagorda Bay
Matagorda Cemetery
Matagorda Ship
McNab Island
McNabb Lake
Middle Branch
Middle Channel
Mad Island Reef

Old Gulf

St. Marys Bayou
Santa Fe System
Shell Island Reef
State Highway No. 60

Tiger-Island Channel

West Branch
West Cutoff
West Floodgate
Willow Island

*Not shown on manuscript- position unknown

Names were taken from names standard furnished by the Washington Office.
62. **Comparison with Registered Surveys.**

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-600</td>
<td>1:20,000</td>
<td>1857</td>
</tr>
<tr>
<td>T-642</td>
<td>1:20,000</td>
<td>1855-6-7</td>
</tr>
<tr>
<td>T-5358</td>
<td>1:20,000</td>
<td>1934 (used as base for this map manuscript)</td>
</tr>
</tbody>
</table>

T-9289 supersedes these maps for nautical charting purposes.

63. **Comparison with Maps of Other Agencies.**

- **U.S.E. Blessing (tactical),** 1:175,000 ed. 1912 Rev. 1929, Rep. 1940
- **U.S.E. Matagorda** 1:125,000, Ed. 1915 Rep. 1943

Not comparable as to scale or date.

64. **Comparison with Contemporary Hydrographic Surveys.** None

65. **Comparison with Nautical Charts.**

1924 1:80,000, Ed. Jan. 1945, Rev. March 1950

A. Charted objects not on T-9289
   1. Pipes and piles, Raymond Landing Shoal and East Matagorda Bay.
   2. Submerged iron rails at 28° 37' 96° 00'.

B. Changes made during review.
   1. Fast land shoreline changed to indefinite shoreline along southern side of waterway.
   2. Water Channels beside highway along Colorado River.
   3. Railroad spur lengthened beside the Colorado River at Matagorda.
   4. The name Battle Island was added.

66. **Control.**

   **Stations**
   1. Dog Island Reef Bn. No. 3, 1934 (Intersection Station n.d.)
   2. Dog Island Reef Bn. No. 5, 1934 (Intersection Station n.d.)

Station 1 above is the same as "Matagorda Middle Channel Light No. 1 on T-5358 and as Bn. "1" (Lighted) on H-5865 (1934-5).

Station 2 above does not appear on either T-5358 or H-5865. The radially plotted position of Bn. No. 5 on T-9289 corresponds
to the position of Matagorda Middle Channel Light No. 3 on T-5358 and En. "3" (Lighted) on H-5865.

The "Lights" on T-5358 were discontinued June 30, 1938 and were designated Beacons 1 & 3 until April 1941, when they were discontinued and no longer maintained.

Because triangulation station Dog Island Reef En. No. 3, 1934 was recovered in 1947, and because Dog Island Reef En. No. 5, 1934 is not proven lost or destroyed, the two stations are retained on map manuscript T-9289.

The structure for Matagorda Middle Channel Light No. 3 in the position shown on T-5358 is plainly visible on the 1946 photographs, therefore, it seems likely that field inspection misnamed it No. 5. The radially-cut point is retained on T-9289 and is labeled "Abandoned Aid (Matagorda Middle Channel, No. 3)".

67. Accuracy. The Revised areas of this map are adequate for charting purposes and comply with Bureau of Engraving and the National Map Accuracy Requirements for Breaching Accuracy.

Reviewed by:

[Signature]
Lena T. Stevens

APPROVED:

[Signature] 1/28/53
Chief, Review Section
Div. of Photogrammetry

[Signature] 4/30/50
Chief, Nautical Chart Branch
Division of Charts

[Signature]
Chief, Div. of Photogrammetry

[Signature]
Chief, Div. of Coastal Surveys
# Nautical Charts Branch

**Survey No.** 9289

Record of Application to Charts

<table>
<thead>
<tr>
<th>Date</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-16-51</td>
<td>888</td>
<td>Kleen</td>
<td>After Verification and Review</td>
</tr>
<tr>
<td>8-14-53</td>
<td>1254</td>
<td>Henderson</td>
<td>After Verification and Review</td>
</tr>
</tbody>
</table>

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.