U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Shoreline (Photogrammetric)
Field No.: Ph-14(16) Office No.: T-8933

LOCALITY
State: Texas
General locality: Gulf Intracoastal
Locality: Shell Lake - Salt Bayou

1947
CHIEF OF PARTY
R. A. Gilmore, Chief of Party
Div. of Photogrammetry, Washington D.C.

LIBRARY & ARCHIVES
DATE: July 13, 1957
DATA RECORD

T-8933

Quadrangle (II):

Project No. (II): Ph-14(46)

Field Office: Port Arthur, Texas

Chief of Party: Ross A. Gilmore

Compilation Office: Chief of Party: L. C. Lande

Graphic Compilation, Div. of Photogrammetry, Wash., D. C.

Instruction dated (II III):

Ph-14(46) Field, not dated

Office files, Div. of Copy filed in Descriptive Photo-

Report-No. T- (VI) grammetry

Completed survey received in office: 3-14-49

Reported to Nautical Chart Section: 3-21-49

Reviewed: 14 Jan. 1950 Applied to chart No. Date:

Redrafting Completed: 8-7-50

Registered: 6/22/51 Published: —

Compilation Scale: 1:10,000 Published Scale: —

Scale Factor (III): 1.000

Geographic Datum (III): NA 1927 Datum Plane (III): MHW

Reference Station (III): Bayou, 1934

Lat.: 29°47'30.542" (940.4m) Long.: 94°00'14.266" (1162.0m) Adjusted

Unadjusted

State Plane Coordinates (VI):

Texas: South Central Zone (p-18)

X = 3,581,643.70 Y = 743,5824.29

Military Grid Zone (VI)
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tr>
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<td>1338</td>
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<td>1338</td>
<td>1:10,000</td>
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<tr>
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<td>3/25/47</td>
<td>1339</td>
<td>1:10,000</td>
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<td>1111</td>
<td>3/25/47</td>
<td>1338</td>
<td>1:10,000</td>
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<tr>
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<td>3/25/47</td>
<td>1339</td>
<td>1:10,000</td>
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Tide from (III):
Mean Range: Spring Range:
Camera: (Kind or source) "C" 6" focal length

Field Inspection by: Irving Zirpel, Jr. date: August, 1947

Field Edit by: None date: 

Date of Mean High-Water Line Location (III):
Date of Photography 3/25/47 and
Field Inspection 8/12/47

Projection and Grids ruled by (III) WEW date: 11/4/48
" " " checked by: WEW date: 11/4/48
Control plotted by: R. W. Williams date: 11/15/48
Control checked by: R. L. Sugden date: 11/15/48

Radial Plot by: L. M. Gazik date: December
Detailed by: R. L. Sugden date: December
Reviewed in compilation office by: 

Elevations on Field-Edit Sheet checked by: 

STATISTICS (III)

Land Area (Sq. Statute Miles):

Shoreline (More than 200 meters to opposite shore):

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established:

Photo-Hydro

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:

Ink Used - G.P.O. black plastic ink was used on this manuscript.
Descriptive Report: T-8933
Project: Ph-14(46) Intracoastal Waterway, Texas
Location: Shell Lake – Salt Bayou
Scale: 1:10,000

This report is concerned with a shoreline survey just southwest of Port Arthur, Texas and is one of a series of surveys extending along the Intracoastal Waterway from Houma, Louisiana, Longitude 90° 44' W to Corpus Christi Bay, Texas, Longitude 97° 15'.

The project Ph-14(46) was undertaken to furnish the necessary data to prepare a new series of inland waterway charts at 1:40,000 scale.

The field party recovered the control and indicated other pertinent field inspection data by photogrammetric methods by identifying it on the photographs for compilation in this office. The field work was accomplished by Lt. Comdr. R. A. Gilmore, Chief of Party.

Compilation notes were made from field records and photographs and instructions from Special Report L. 34 (1948) Port Arthur, Texas to Cedar Lakes, Texas.

This shoreline sheet is filed in the Division of Photogrammetry and L. 34 (1948) is filed in the Nautical Chart Branch.
Radial Plot Report for T-8933

One continuous radial plot for T-8933, 8934, 8935, 8936, and 8937 was prepared using 23 transparent acetate templates made from as many ratio prints and 4 transparent vinylite templates made from as many nine-lens photographs.

The template for photograph 1113 was prepared to hold the positions and control on T-8929 compiled by the Baltimore Office. The junction so made between T-8933 and T-8929 was satisfactory.

The following 12 stations and substitute stations were held in the plot:

- T-8933 (Sub. Sta. BAYOU, 1934 and the radial (plot pass points on T-8929
- T-8934 (DEE, 1934 (Sub. Sta. FLUME, 1934
- T-8935 (Sub. Sta. FAIR, 1934 (Sub. Sta. WAY, 1934
- T-8936 (Sub. Sta. NEEL, 1934 (Sub. Sta. GATE, 1934
- T-8937 (Sub. Sta. HIGHLAND 2, 1934 (Sub. Sta. BEND, 1934 (N.W. BEND, 1934 (BRANT, 1933

Control Density - Adequate

Control Identification - In computing the positions of R. M. No. 1 and R. M. No. 2 for station FLUME, 1934, it was discovered that R. M. No. 1 is to the west and R. M. No. 2 is to the east of the station and not the reverse as found in the description. Field recovery was claimed for R. M. No. 2. This recovery could not be held for R. M. No. 2, but this recovery was held as R. M. No. 1 on the basis of the above noted 180 degree discrepancy and made a consistent plot.

The resulting positions so obtained checked with other features in the vicinity found on the CLAM LAKE, TEXAS quad compiled by the Tennessee Valley Authority, for and published by Army Map Service, 1947. Further satisfactory check of the features in the area was made with T-6277a (1935).

It is recommended that the station FLUME, 1934 and R. M. No. 1 (recovered as No. 2) be not considered destroyed
as indicated by the recovery note of 1947 until another search be made or the above described inconsistency be explained.

Closure and Adjustment - Satisfactory.

Areas of Questionable Accuracy - None, except that the area about station PLUME, 1934 should be considered in the light of the explanation given above under CONTROL IDENTIFICATION.

Submitted by:

L. M. Gazik
16 December 1948

Approved:

L. C. Lande
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>Bayou, 1934</td>
<td>Texas Coast</td>
<td>NA 1927</td>
<td>29-17-30 532 94-00-13 266</td>
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<td>960 h</td>
<td>1162 0</td>
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<tr>
<td>Sub Station (Bayou, 1934)</td>
<td>Computation</td>
<td>&quot;</td>
<td>29-17-</td>
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<td></td>
<td>965 2</td>
<td>1114 1</td>
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1 FT. = 304.8086 METER
COMPUTED BY: L. M. Gazik
DATE: 12/3/48
CHECKED BY: E. H. Ramey
DATE: 12/3/48
Compilation Notes

26; 27 Control and Radial Plot

See appended radial plot report for T-8933, 8934, 8935, 8936 and 8937.

28. Detailing

The compilation is in accordance with Photogrammetry Instructions No. 17, dated 15 September 1947, filed in Div. Photogr Office Files.

The field inspection was adequate for the area covered by this survey.

Limits of areas of marsh, high ground, and interpretation of other inland features were determined by stereoscopic examination of the photographs.

29. Supplemental Data

No additional work was done in 1947 on Graphic Control Survey T-6277 of 1935.

30. Mean High Water Line

Tide range in this area is negligible for purposes of compilation.

31. Landmarks and Aids to Navigation

Salt Bayou Day Beacon # 16 as listed on the field inspection photographs is believed to be Salt Bayou Buoy 16 as listed in the Intracoastal Waterway Light List (1948). Shown on Map manuscript.

No landmarks fall within the confines of the area.

37. Geographic Names

Geographic names were taken from Special Report 107 (1948) on Geographic Names filed with Mr. Heck. A list of geographic names accompanies this report. Names for Humble Oil and Refining Company Barge Basin and Channel and Shell Oil Company Inc. were taken from U.S. Engineers Booklet of maps Intracoastal Waterway - Section from Sabine River to Brownsville, Texas - Scale 1:100,000 U.S. Engineer Office, Santa Fe Building - Galveston, Texas - Revised to May 1945.

44. Comparison with Existing Topographic Quadrangles

This manuscript was compared with TVA quadrangle Big Hill Bayou (1943) and the following differences were noted - (1) Shell Oil Co. Inc. (Basin) is not shown on the quadrangle. (2) Humble Oil Refining Co. Barge Basin and Channel has been lengthened,
In place of the one large dam at Salt Bayou Locks there is a smaller dam and spillway with extended wooden bulkheads.

45 Comparison with Nautical Charts

A visual comparison was made with Chart No. 1116, 7/14/47 (scale 1:458, 596) because of differences in scale but no disagreement was noted.

This manuscript is complete in all details except as mentioned above and should supersede previous charted information.

Approved by: 

[Signature]

L. C. Lande

Submitted by: 

[Signature]

Robert L. Sugden

Verified by: 

[Signature]

C. Hanavich
Geographic Names

- Cabin Lake
- Humble Oil and Refining Co. Barge Basin and Channel
- Barnett Lake
- Intracoastal Waterway
- Willow Lake
- Shell Lake
- Salt Bayou
- Crane Bayou
- Shell Oil Co. Inc. (Basin)
- Salt Bayou Locks
- Lost Lake
- Texas

* = Decis BCN
= Approved name

1-19-50
a.y.w.
61. **Comparison with Registered Topographic Surveys:**

   **T-6277-b**  
   1:30,000  
   1935

   This map supersedes T-6277-b for nautical charting purposes.

62. **Comparison with Surveys of other Agencies:**

   USE Big Hill Bayou, Tex.  
   1:31,580  
   ed. 1945  

   USE Clam Lake, Tex.  
   1:25,000  
   ed. 1947

63. **Comparison with Nautical Charts:**

   1280  
   1:80,000  
   ed. June 1945  
   rev. Aug. 10, 1946

   There are no significant differences between T-8933 and this chart.

64. **Accuracy:** Map T-8933 conforms with the National Standards of Accuracy and is adequate for charting purposes.

Reviewed by:

_Lena T. Stevens_

Approved by:

_Chief, Review Section Division of Photogrammetry_

_Chief, Nautical Chart Branch Division of Charts_

_Chief, Div. of Photogrammetry_

_Chief, Div. Coastal Surveys_
### Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>F.M.A.</td>
<td><strong>No correction</strong> Before After Verification and Review</td>
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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.