U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
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<tbody>
<tr>
<td>Field No.</td>
<td>Ph-68</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-9788</td>
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**LOCALITY**

<table>
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<tr>
<td>General locality</td>
<td>Mississippi Sound</td>
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<tr>
<td>Locality</td>
<td>Waveland</td>
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</table>

**19W/51-56**

**CHIEF OF PARTY**
P.L. Bernstein, Chief of Field Party  
J.E. Waugh, Tampa Photo, Office

**LIBRARY & ARCHIVES**

**DATE**  
July, 31, 1959
DATA RECORD

T-9788

Project No. (II): Ph-68(50)  Quadrangle Name (IV): Waveland

Field Office (II): Gulfport, Mississippi  Chief of Party: P. L. Bernstein

Photogrammetric Office (III): Tampa, Florida  Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III): 14 August 1951  Copy filed in Division of

Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Scale Factor (III): None

Date received in Washington Office (IV):

Applied to Chart No. Date:

Publication Scale (IV):

Geographic Datum (III): N. A. 1927

Data reported to Nautical Chart Branch (IV):

Date registered (IV): 2/24/59

Publication date (IV):

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (26) 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): BSL 5 (USE) 1942

Lat.: 30° 15' 46.85 (114.27 m)  Long.: 89° 23' 40.34 (1078.3 m)

Adjusted

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.
Areas contoured by various personnel
(Show name within area)

II) III)
DATA RECORD

Field Inspection by (II): B. F. Lampton, Jr.  
Date: Nov. 1-Mar. 52

S. L. Hollis, Jr.  
E. T. Ogilby  
C. H. Baldwin  
Date: Dec. 1-Mar. 52

Completion Surveys by (II): George S. Vannadoe  
Date: Sept. 1956

Mean High Water Location (III) (State date and method of location):  
Air Photo compilation  
Date: April 1952

Projection and Grids ruled by (IV): J. A. (W.O.)  
Date: 14 Oct. 1952

Projection and Grids checked by (IV): H. D. W. (W.O.)  
Date: 15 Oct. 1952

Control plotted by (III): I. I. Saperstein  
Date: 5 Jan. 1953

Control checked by (III): R. J. Pate  
Date: 6 Jan. 1953

Radial Plot of Contours: M. M. Slavney  
Date: 15 Jan. 1953

Stereoscopic Instrument compilation (III): Inapplicable  
Date: 9 Oct. 1953

Manuscript delineated by (III): R. E. Smith  
Date: 16 Oct. 1953

Photogrammetric Office Review by (III): J. A. Giles  
Date: 14 Oct. 1953

Elevations on Manuscript checked by (III): J. A. Giles
Summary to Accompany Topographic Map

This topographic map is one of seven maps of Project MH-68. It covers the north shore of LAKE BORCHE and continues into MISSISSIPPI SOUND. Project MH-29 joins the four most southern manuscripts and Project MH-60 joins the other three.

It is a graphic compilation project. Field work in advance of compilation included the recovery of control field inspection, the delineation of 5 foot contours on 1952 nines-lens photographs by planestable methods and the investigation of geographic names and boundaries.

The two most northern sheets T-9786 and T-9787 were contoured by the Reading Plotter with a 10' interval.

A nines-lens plot was run by the Tampa Office on the five most southern sheets and a separate nines-lens plot on sheets T-9786-87 was run by the Washington Office. The plots junctioned well.

All sheets were compiled and scribed by the Tampa District Office. New photography taken in 1955 with the "W" camera was used to revise delineation where necessary.

The manuscripts were field edited.

With the addition of hydrographic data these maps will be forwarded to the Geological Survey for publication.

Items registered under each map number will include a cromar film positive and a descriptive report.
Camera (kind or source) (III): USGS Nine-lens Camera, Focal length 8.24 inches

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
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<td>33519</td>
<td>&quot;</td>
<td>0926</td>
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</table>

Tide (III)
Reference Station: Pensacola, Florida
Subordinate Station: Long Point Lake Borgne
Subordinate Station: Computed from the predicted Tide Tables

Final Drafting by (IV): Date:
Drafting verified for reproduction by (IV): Date:
Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 61.5
Shoreline (More than 200 meters to opposite shore) (III): 4.3
Shoreline (less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II): 33
Number of Triangulation Stations searched for (II): 14
Number of BMs searched for (II): 18
Recovered: 14
Identified: 14

Number of Recoverable Photo Stations established (III): 36*
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
* Section corners
2. AREAL FIELD INSPECTION

The area is flat coastal plain extending north from the Mississippi Sound. The Jourdan River crosses the northeast corner of the quadrangle. The area is traversed east and west by Bayou La Croix, U. S. Highway 90, and the Louisville and Nashville Railroad. It includes the town of Clermont Harbor and part of the towns of Waveland and Lakeshore.

The quadrangle includes the Bay St. Louis Monitoring Station of the Federal Communications Commission. The supervisor of the station has requested that he be furnished a geographic position of the center of one of the buildings. This building is pictured on photograph 33487 and identified as Photo Pt. 12. Photogrammetric location will be satisfactory. The position should be given in degrees, minutes, and seconds (to tenths), and mailed to P. O. Box 300, Bay St. Louis, Mississippi.

The field inspection is believed to be complete.

There are no current changes apparent to call the attention of the field editor.

The photographs are clear and of excellent scale.

Field work was done on photographs 33485-88, 33503-05, 33518-19, and 33469.

3. HORIZONTAL CONTROL

The following U. S. Engineer stations were recovered: BSL 1, 3, 5, 7, 10, 11, 13, 15, 17, 19, and 22. These are 1941 stations. The accuracy is not known but is believed to be third-order. Station BROWN 1931 has been reported as lost on Form 526. Reference Mark No. 2 was recovered and identified.

4. VERTICAL CONTROL

The following U.S.G.S. first-order bench marks were recovered and identified on the photographs: Z 17, A 18, X 121, Z 121, A 122, RM 2 BROWN, and 121.

The following U.S.G.S. second-order bench marks were recovered and identified on the photographs: H 136, J 136, K 136, L 136, M 136, XILN 1931.
Recovery notes are also being submitted on the following U.S.C. & G.S. second-order bench marks, which are not identified on the photographs: KILN 1931 RM NO 1, KILN 1931 RM NO 2.

Fly levels were run to establish supplemental elevations for control of planetable contouring. All closures were satisfactory.

Level points have been designated 88-01 through 88-60.

5. CONTOURS AND DRAINAGE

Contouring was done on photographs by standard planetable methods. There is very little relief except along drains.

There is considerable marsh along the shoreline and main streams. The drainage is very poor and most of the area has standing water during rainy season. This should not be considered marsh. Most of the secondary drainage is in the form of swamps rather than streams. There is a number of drains that actually cross ridges.* See comment in field edit report.

6. WOODLAND COVER

The woodland on high ground is practically all second growth pine forest. In the swamps, there is mixed hardwood and cypress. There are large areas of cut-over land, now all grass. There are a few small pecan groves.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line of Mississippi Sound is a concrete seawall. In the Jourdan River and its tributaries most of the shoreline is apparent (marsh).

The horizontal difference between the mean high water line and the low water line is too small to be shown throughout the quadrangle.

There are numerous piers in the Mississippi Sound and a few in the rivers. These have been indicated on the photographs.

8. OFFSHORE FEATURES

* The only offshore feature is a platform in the Mississippi Sound. This is visible on the photographs and has been indicated.

9. LANDMARKS AND AIDS

There are no landmarks or aids to navigation within the quadrangle.
10. **BOUNDARIES, MONUMENTS AND LINES**

See "Special Report, Boundaries, Project Ph-68(50)".

The boundary monuments of the Town of Waveland are no longer in existence.

There is considerable confusion as to section lines within Township 8 South, Range 14 West. The plats furnished this party have apparently been superseded by a number of land grants. Mr. E. S. Drake, Surveyor, of Bay St. Louis, Mississippi has compiled a map of Hancock County, which he believes shows the section lines correctly, although the scale is too small for compilation purposes. The General Highway Map of Hancock County shows the same section lines except for a few small changes. Only a few section corner monuments could be found within this township.

The following section corners have been recovered and identified on the photographs: In TGS RL4W: the NE. corner of Section 19, and the NW. corners of Sections 7, 11, 19, 32, and 24 (at extreme N. tip). In TGS RL4W: the NW. corners of Sections 3, 4, 5, 6, 7, 8, 9, 10, 11, 15, and 16. In TGS RL5W: the NW. corners of Sections 10, 11, 14, 15, 25, 26, 34, and 35. In TGS RL5W: the NW. corners of Sections 1, 2, 3, 10, 13, 14, 15, 22, and 24.

11. **OTHER CONTROL**

No recoverable topographic stations were established. Previously established control is sufficient.

12. **OTHER INTERIOR FEATURES**

Bridge data will be found on the following page.

Attention is called to U. S. Highway 90. The highway is the southern of two roads throughout most of the quadrangle. It is a Road 2 and was built to replace the northern road which is a Road 4. The northern road is in good condition and still receives some local use. However, Highway 90 should be considered as a two lane road, not four lane.

There are two race tracks in the western part of the quadrangle. These are private tracks used to train race horses. The western track is apparently not in use at present, but it is still a prominent topographic feature.

In the cleared areas there are numerous tracks visible on the photographs. These were made by vehicles used in logging operations and are not roads. Most of them have been deleted on the photographs, but they are too numerous to delete all of them.
To: District Engineer
New Orleans District
Corps of Engineers, U. S. Army
P. O. Box 208
Arabi, Louisiana

Subject: Bridge Data

There is enclosed herewith a list of the bridge clearance data determined by this party.

Percy L. Bernstein
Commander, U.S.C.& G.S.
Chief of Party

cc: The Director
Tampa Photogrammetric Office
District Engineer, Mobile District
** The above bridge not in operation.

** Measurements listed in July 1941 Edition of Bridge Book.

**

242

Lacock Bayou, Miss.

Use Tonic Stare Center Right Above Right

Vertical Cal.

I, July 1941 Edition, and Supplement

List of Bridges Over The Navigable Waters of the United States
13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-68(50)".

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"Special Report, Boundaries, Project Ph-68(50)", to be submitted at a later date.

"Special Report, Geographic Names, Project Ph-68(50)", to be submitted at a later date.

Data, Quadrangle T-9788( ), letter of transmittal 68-8, forwarded to Washington Office 23 April 1952.

Submitted
4 April 1952

B. Frank Lampton, Jr.
Cartographic Survey Aid

Approved and forwarded

23 April 1952

Percy L. Bernstein
Chief of Party
PHOTOGRAHMETRIC PLOT REPORT.

Submitted with T-9791.

31. DELINEATION.

The manuscript was delineated by the graphic method. No unusual methods of compilation were used.

32. CONTROL.

Horizontal control was adequate with reference to identification, density and placement.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

No difficulties were encountered in delineating the drainage. Contour discrepancies have been noted on the discrepancy overlay. Reference, H. R. Cram's letter dated 10 June 1952, 732-mkl.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate.

No low-water or shoal lines have been shown on the map manuscript.

36. OFFSHORE DETAILS.

Reference Item 8.

37. LANDMARKS AND AIDS.

Reference Item 9.
38. **CONTROL FOR FUTURE SURVEYS.**

Thirty-six (36) Forms 524 for recoverable topographic stations are being submitted with this report.

*They five of these are section corners.*

These stations have not been listed under Item 49 as they are all inshore and of no aid to the hydrographer.

39. **JUNCTIONS.**

Junction was made on the south with T-9791.
Junction was made on the east with T-9379 (see Item 34).
There is no contemporary survey either on the north or west.

40. **HORIZONTAL AND VERTICAL ACCURACY.**

No statement.

46. **COMPARISON WITH EXISTING MAPS.**

Comparison has been made with quadrangle, BAY ST. LOUIS, scale 1:62,500, Army Map Service, dated 1912, reprint 1942. They are in fair agreement.

47. **COMPARISON WITH NAUTICAL CHARTS.**

Comparison has been made with USCGS Nautical Chart 877, Mississippi Sound, Gulfport to Grand Island Pass, scale 1:140,000, issued in October 1951, corrected to 9 August 1952. There are no differences worthy of note.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.**

None.

**ITEMS TO BE CARRIED FORWARD.**

None.

**APPROVED AND forwarded:**

J. E. Waugh, Chief of Party

Rexford E. Smith, Jr.
Carto Photo Aid
48. GEOGRAPHIC NAME LIST.

BAYOU ENCEINTE
BAYOU LA CROIX
BAYOU MARONE
BAYOU PHILIP
BREATH BAYOU

CAMERON ISLAND
CATTISH BAYOU
CLERMONT HARBOR
CUTOFF BAYOU
CUTOFF LAKE

EDWARDS BAYOU

FOUR DOLLAR BAYOU

GRAND BAYOU
GULF VIEW CONSOLIDATED SCHOOL
GUM BRANCH

HOLY CROSS CHURCH AND CEMETERY

JACKSON MARSH
JACKSON RIDGE
JOURDAN RIVER (BGN)

KILN ROAD

LA CROIX BRIDGE
LAKE SHORE
L & N RAILROAD

MISSISSIPPI
MISSISSIPPI SOUND

PEARLINGTON ROAD

SAND BAYOU
* SPANISH TRAIL CHURCH
ST JOHNS CHURCH

TURKEY BAYOU

UMBRELLA BAYOU
U.S. 80

WAVELAND

*Not located on map manuscript

27 July 1957
The above names have been verified as correct.

Geographic Survey Section
George M. Bell
48. GEOGRAPHIC NAME LIST (CONTINUED)

LAND GRANTS

PIERRE CAREO

JOHN J JOURDAN

NOEL JOURDAN

* JOSEPH LA FARVE

JOHN B LARDNER

E W RIPLEY

* To be verified by Field Editor
49. NOTES FOR THE HYDROGRAPHER.

None.
**TIDE COMPUTATION**

**PROJECT NO. Ph68(50) T 9388**

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<th>Time and date of exposure</th>
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<th>Date of field inspection</th>
<th>Subordinate station</th>
<th>Ratio of ranges</th>
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<th>Duration of rise or fall</th>
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**Computed by R. R. Wagner**  **Checked by W. W. Dawson**
PHOTOGRAMMETRIC OFFICE REVIEW
T. 9788


CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy H.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. Photo hydro stations XX 8. Bench marks J.G.

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES

MISCELLANEOUS

40. Jesse A. Giles Reviewer
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:
Field Edit Report
Quad. T-9788

51. Methods. All roads were ridden out to check their classification and to visually check the planimetry and contours. The shoreline and offshore features were inspected from a road along the shoreline and by walking the shoreline.

Standard plane-table methods were used to locate additional offshore features; to locate the roads and canals in a new subdivision; to test the accuracy of the contours and to recontour a small area in the northeastern part of the quadrangle.

Many features were identified on the photographs and cross referenced on the field edit sheets.

Field edit information is shown on the following: Three Field Edit Sheets numbered 1 to 3 inclusive; One Discrepancy Print; One Section and Grant Line Discrepancy Print and one ratio print each of Photographs nos. 55w-1720, 1721, 1722, 1723, 1734, 1735 and 1736.

Violet ink was used for all corrections and additions and green ink was used for all deletions on all sheets and photographs. A legend appears on each Field Edit Sheet.

52. Adequacy of the Compilation. Many features which are clearly depicted on the 1955 photographs were not compiled during the revision of the sheet.

Much time was spent on features, especially buildings and roads, where the vegetation is heavy, due to the feature being obscured and not indicated during field inspection.

53. Map Accuracy. No horizontal accuracy tests were made as such. However, while locating offshore features, by graphic triangulation, some well defined points of detail were checked, all of which were found to be less than 0.3mm in error.

Contours were tested in several scattered areas. A total of 11 points were tested. One hundred percent of these points were in error less than one half the contour interval.
It was found necessary to recontour an area of approximately one half square mile in the northeastern part of the quadrangle. It was found here that no junction was with the adjoining sheet to the east, contours were shown which do not exist and those shown were misplaced and misshaped for the most part. The junction is not satisfactory.

The original contouring in this area was done by a different individual from those who contoured the balance of the sheet and in no way should this work reflect on the remainder of the map.

54. Recommendations. None offered.

55. Examination of the Proof Copy. Mr. E. S. Drake, a local surveyor of note for approximately 50 years in this area has agreed to examine a proof copy of the map. Mr. Drake's address is Bay St. Louis, Miss.

No discrepancies in geographic names were noted or found.

56. Reference Side Heading 10 of Report. No additional Grant Line or Section Line Corners could be located. Mr. Drake, who is mentioned under side heading 55, and who gave invaluable aid in locating these lines in Quad. T-9397, stated that due to the absence of physical features extensive surveying would probably be necessary to recover any of these corners.

The north, south lines dividing the eastern four sections immediately north of T6S T9E angle as shown on the Section and Grant Line Discrepancy Print, according to Mr. Drake.

57. Reference Side Heading 5 of Report. To attempt to clarify paragraph two of this side heading the following is offered.

In some areas, especially in the southwestern part of the Quad, pasture land (grass) grows and in some areas is cultivated, between swamp and marsh. This land is low with no drainage except by seepage. Therefore, although the area is not marshy, standing water is to be found during the wet season.

No drains were found crossing ridges.

Respectfully submitted,
14 September 1956

George E. Varnadore
George E. Varnadore
Photo Engr.
REVIEW REPORT T-9788

TOPOGRAPHIC

February 25, 1959

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

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<tr>
<td>3663</td>
<td>1917-18</td>
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</table>

All of the above surveys are superceded by manuscript T-9788.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

BAY ST LOUIS 1:62,500 1912-1914

A comparison with this map was of little use since the base was compiled from USCGS Chart 190 and a soil conservation map. Both of these sources are over 50 years old.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None

65. COMPARISON WITH NAUTICAL CHARTS

Chart 877 combined edition Oct 1951 Revised June 1958

A comparison was made and additions are listed as follows:

1. A line of piling extending into MISSISSIPPI SOUND 900' just SW of CLERMONT HARBOR.

2. Several near-shore islets of marsh exist just south of CLERMONT HARBOR.

3. Two foul areas southwest and northeast of CLERMONT HARBOR. These areas are alongshore adjacent to the seawall.

4. Submerged piling extending seaward 900' off Waveland.

5. A platform 1100' ESE of BSL4-USE 1941
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This manuscript complies with all instructions.

A vertical accuracy check was made and contours tested were found adequate.

Horizontal accuracy is adequate to meet standards.

This manuscript complies with National Standards of Map Accuracy.

Reviewed by:

[Signature]
A. K. Heywood

Approved by:

[Signature]  [Signature]
R. C. Lande       W. A. Hulett
Chief, Review & Drafting Section Chief, Nautical Chart Branch
Photogrammetry Division Charts Division

[Signature]  [Signature]
J. E. Kivasen       R. H. L. Opper
Chief, Photogrammetry Division Chief, Coastal Surveys Division

23 July '59
## NAUTICAL CHARTS BRANCH

**SURVEY NO.** T-9788

Record of Application to Charts

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<th>CARTOGRAPHER</th>
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</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.