**FORM 504**

**U.S. DEPARTMENT OF COMMERCE**

**COAST AND GEODETIC SURVEY**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>TOPOGRAPHIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-39</td>
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**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>LOUISIANA</th>
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<tbody>
<tr>
<td>General locality</td>
<td>CHANDELIER SOUND</td>
</tr>
<tr>
<td>Locality</td>
<td>MARTIN ISLAND</td>
</tr>
</tbody>
</table>

**1955**

**CHIEF OF PARTY**
P.L. Bernstein, Chief of Field Party
Ira R. Rubottom, Tampa Photo Office

**LIBRARY & ARCHIVES**

**DATE**
DATA RECORD

T-9664

Project No. (II): Ph-29

Quadrangle Name (IV): MITCHELL KEY


Photogrammetric Office (III): Tampa Fla.

Instructions dated (II) (III): 11 April 1952

Chief of Party: P.L. Bernstein

Officer-in-Charge: Ira R. Rubottom

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): 17-56

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date: Date registered (IV): 4 Mar 1958

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (26) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): MARTIN 1934

Lat.: 29° 57' 37" .880 (1166.4m) Long.: 89° 12' 13" .719 (367.8m)

Plane Coordinates (IV):

State: Zone:

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): E.T. Ogilby
S.L. Hollis, Jr.

Date: June - Aug. 1952

Planetary contouring by (II): E.T. Ogilby
S.L. Hollis, Jr.

Date: June, Aug. 1952

Completion Surveys by (II):  

Date:

Mean High Water Location (III) (State date and method of location):

Air Photo Compilation

Date: Aug. 1952

Projection and Grids ruled by (IV):  
Joan Thuma (W.O.)

Date: 30 June 1953

Projection and Grids checked by (IV):
H.D. Wolfe (W.O.)

Date: 30 June 1953

Control plotted by (III):  
I.I. Saperstein

Date: 12 Aug. 1953

Control checked by (III):
R.J. Pate

Date: 12 Aug. 1953

Radial Plot or Stereoscopic

Control extension by (III):  
M.M. Slavney

Date: 25 May 1954

Stereoscopic Instrument compilation (III):

Planimetry

Inapplicable

Contours

Date:

Manuscript delineated by (III):
R.R. Wagner

Date: 8 Oct. 1955

Photogrammetric Office Review by (III):

J.A. Giles

Date: 26 Oct. 1955

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

J.A. Giles

Date: 12 Oct. 1954

Form T-Page 3

K-2618-12(4)
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<th>Scale</th>
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Reference Station: Pensacola
Subordinate Station: Cat Island

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

Land Area (Sq. Statute Miles) (III): 7
Shoreline (More than 200 meters to opposite shore) (III): 61
Shoreline (less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 5 (4)*
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (II): None
Number of Temporary Photo Hydro Stations established (II): None

Remarks:
( )* Third-order stations established

Ratio of Ranges | Mean Range | Diurnal Range
---|---|---
1:3 | 1.3 | 1.7

Date: Oct, 1957
SUMMARY TO ACCOMPANY TOPOGRAPHIC MAP

This topographic map is one of 17 similar maps of Project PH-89. It covers a portion of Louisiana from Mississippi Sound south to Breton Sound.

Project PH-89 is a graphic compilation project. Field work in advance of compilation included the establishment of some additional control, complete field inspection, the delineation of 5 foot contours directly on the nine-lens photographs by plannable methods, and the investigation of geographic names and political boundaries.

Since almost all the terrain was marsh, only 3 of the maps on PH-89 were field edited. They are T-9660, T-9665, T-9667. All were compiled at the scale of 1:20,000, using nine-lens photographs taken in 1952. Newer 6x7 camera photographs taken in 1955 were used to revise delineation where necessary. There were few such cases.

With the addition of hydrographic data these maps will be forwarded to the Geological Survey for publication as standard 7 1/2 minute quadrangles.

Items registered under each map number will include a Cronar film positive and a descriptive report.
2. AREAL FIELD INSPECTION

The land area of this map is composed entirely of scattered marsh islands forming the western side of Chandeleur Sound.

Nine-lens photograph quality was good but single lens quality was very poor.

Field work was done on nine-lens photographs 35312 and single lens photographs MDA-4-26, and MDA-15-3, both 1 of 2; and MDA-4-26, MDA-4-28, MDA-15-3, and MDA-15-5, all 2 of 2.

Field inspection is believed to be complete and adequate.

3. HORIZONTAL CONTROL

The following third-order stations were established: ELEPHANT 1952, KEY 1952, KEELE 2 1952, and MITCHELL KEY LT. 1952.

Stations MITCHELL ISLAND 1921, MITCHELL KEY LIGHT 1934, and KEELE 1934 were reported lost on Form 526.

4. VERTICAL CONTROL

The Martin Island, Drum Bay, and Grand Pass tide staffs were used as reference for reduction of elevations to mean sea level. See "Special Report, Vertical Control and Contouring, Project Ph-89".

5. CONTOURING AND DRAINAGE

See "Special Report, Vertical Control and Contouring, Project Ph-89".

6. WOODLAND COVER

See Field Inspection Report, Quadrangle T-9659( ).

7. SHORELINE AND ALONGSHORE FEATURES

See Field Inspection Report, Quadrangle T-9659( ).

8. OFFSHORE FEATURES

There are none.

9. LANDMARKS AND AIDS

There are no landmarks. All aids to navigation are adequately covered by the photographs and Form 567.
10. **BOUNDARIES, MONUMENTS AND LINES**

   See Field Inspection Report, Quadrangle T-9659( ).

11. **OTHER CONTROL**

   None was established.

12. **OTHER INTERIOR FEATURES**

   There are none.

13. **GEOGRAPHIC NAMES**

   See "Special Report, Geographic Names, Project Ph-89".

14. **SPECIAL REPORTS AND SUPPLEMENTAL DATA**

   "Special Report, Vertical Control and Contouring, Project Ph-89", to be forwarded at a later date.

   "Special Report, Geographic Names, Project Ph-89", to be forwarded at a later date.

   Letter of Transmittal No. 89-7, Horizontal Control Data, forwarded to Tampa Photogrammetric Office 27 August 1952.

   Letter of Transmittal No. 89-8, Horizontal Control Data, forwarded to Washington Office 27 August 1952.

   Letter of Transmittal No. 89-11, Forms 567, forwarded to Washington Office 8 September 1952.

   Letter of Transmittal No. 89-12, Forms 567, forwarded to Tampa Photogrammetric Office 8 September 1952.

   Letter of Transmittal No. 89-15, Data, Quadrangles T-9660( ), T-9661( ), T-9662( ), T-9663( ), and T-9664( ), forwarded to Washington Office 16 September 1952.

   Submitted
   8 September 1952
   B. Frank Lampton Jr.
   Cartographic Survey Aid

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Approved & Forwarded
16 September 1952
Percy L. Bernstein
Chief of Party
PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-9655.

31. DELINEATION

The graphic method was used.

32. CONTROL

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

There are no contours. All elevations are below five (5) feet, the highest ground elevation being two (2) feet.

No difficulties were encountered in the delineation of the drainage.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline has been shown according to the photographic interpretation of the compiler and field inspector's notes.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

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

There are no topographic or photo-hydro stations.

39. **JUNCTIONS**

A junction was made to the north with T-9659; to the west with T-9663; and to the south with T-9669. CHANDELEUR SOUND falls to the east.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

41. **BOUNDARIES AND PUBLIC LAND LINES**

All the area mapped falls within ST. BERNARD PARISH LOUISIANA.

No control for the location at public land lines was recovered.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with U.S. Geological Survey Topographic Quadrangle MITCHELL KEYS, LA; scale 1:31,680 dated 1935. No unusual changes were noted.

Comparison was also made with C&GS Planimetric Map T-5327, scale 1:20,000 corrected to 8 August 1935. Erosion has changed the size and shape of the shoreline. Some small islands are no longer visible on the photographs.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with C&GS Chart 1268, scale 1:80,000 dated Sept. 1940, corrected 13 April 1953. The same differences are to be found as listed in Item 46 for T-5327 since it is thought to be the source of topography.

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

None

**ITEMS TO BE CARRIED FORWARD**

None

Robert R. Wagner  
Carto Photo Aid

Approved and Forwarded  

[Ira R. Rubottom, Chief of Party]
Chandeleur Sound  
Conkey Cove  
Cranetown Bay  

Drum Bay  
Elephant Point Pass  

Fox Bay  
Holmes Islands  

Keelboat Pass  

Live Oak Bay  
Live Oak Bayou  
Louisiana  

Martin Island  
Mitchell Island  
Mitchell Key  

Radfish Bend  
St. Bernard Parish  

Names approved 9-20-56  
L. Heck L. H.
48. GEOGRAPHIC NAME LIST

CHANDELEUR SOUND
CONKEY COUE
CRANETOWN BAY

DRUM BAY

ELEPHANT POINT PASS

FOX BAY

HOLMES ISLANDS

KEELBOAT PASS

LIVE OAK BAY
LIVE OAK BAYOU
LOUISIANA

MARTIN ISLAND
MITCHELL ISLAND
MITCHELL KEY

REDFISH BEND

ST. BERNARD PARISH
49. NOTES FOR THE HYDROGRAPHER

No statement.
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

Robert E. Wagner

Ira N. Rubottom
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>LOUISIANA</th>
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</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>MITCHELL KEY</td>
<td>Black triangular structure on piles</td>
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<tr>
<td>LIGHT</td>
<td>29 54</td>
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### Tide Computation

**Project No.** Ph-89  T-9647

**Time and date of exposure:** 28 Sept 1952

**Reference station:** Pensacola, Florida

**Spring Mean range:** 1.7

**Date of field inspection:**
- **Subordinate station:** Cat Island (West Pt.), Miss.
- **Ratio of ranges:** 1.3

<table>
<thead>
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<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height</th>
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<tbody>
<tr>
<td>High tide</td>
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<td>2.3</td>
<td>High tide</td>
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<td>Duration of rise or fall</td>
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<td></td>
<td>Corrected time at Subordinate station</td>
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<td>Corrected time at Subordinate station</td>
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<th>Required time</th>
<th>Interval</th>
<th>Ht. H. T. or L. T.</th>
<th>Tabular correction</th>
<th>Stage of tide above MLW</th>
<th>Feature bares</th>
<th>Stage of tide above MLW</th>
<th>Feature bares</th>
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<td>3:01</td>
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<td>Feature bares</td>
<td>Stage of tide above MLW</td>
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**Photo No.:** 39342
PHOTOMGRAMMETRIC OFFICE REVIEW

T. 9654


CONTROL STATIONS

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


ALONGSHORE AREAS


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES


MISCELLANEOUS


40. J. Giles Reviewer

William A. Raune
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.

Compiler

Supervisor

43. Remarks: M.2623-12
REVIEW REPORT T-9664
Topographic Map
4 October 1957

61. General Statement

See summary

62. Comparison with Registered Topographic Surveys

654  1:20,000  1857
5327  1:20,000  1934

Manuscript T-9664 supersedes all the above surveys in common areas as source material for chart construction.

63. Comparison with Maps of Other Agencies

USGS Mitchell Keys, La.  1:31,680  1935

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

Chart 1270  1:80,000  2nd Ed. 1947  12/17/56

66. Adequacy of Results and Future Surveys

This map complies with all instructions and meets the National Standards of Map Accuracy.

No field edit was necessary. There is no culture, all the land area is marsh.

The delineation was compared with the USC&GS "M" camera photography taken in 1955.

No changes were made.

Reviewed by:

A. K. Haywood

Approved:

J. C. Landy
Chief, Review Branch
Photogrammetry Division

May H. Heffner
Chief, Nautical Chart Branch
Charts Division
Chief, Photogrammetry Division

Chief, Coastal Surveys