

# 9664

ORIGINAL

Diag. Cht. No. 1268-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-39 Office No. T-9664

### LOCALITY

State LOUISIANA

General locality CHANDELEUR SOUND

Locality MARTIN ISLAND

1955

### CHIEF OF PARTY

P.L. Bernstein, Chief of Field Party  
Ira R. Rubottom, Tampa Photo Office

### LIBRARY & ARCHIVES

DATE \_\_\_\_\_

COMM-DC 61300

9664

DATA RECORD

T-9664

6089  
Project No. (II): Ph-89

Quadrangle Name (IV): MITCHELL KEY

Field Office (II): New Orleans, La.

Chief of Party: P.L. Bernstein

Photogrammetric Office (III): Tampa Fla.

Officer-in-Charge: Ira R. Rubottom

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

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): 5-7-56 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 (25) refer to mean high water  
Elevations shown as (5) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): MARTIN 1934 ✓

Lat.:  $29^{\circ} 57' 37'' .880$  (1166.4m) ✓

Long.:  $89^{\circ} 12' 13'' .719$  (367.8m) ✓

Adjusted  
~~Unadjusted~~

Plane Coordinates (IV):

State:

Zone:

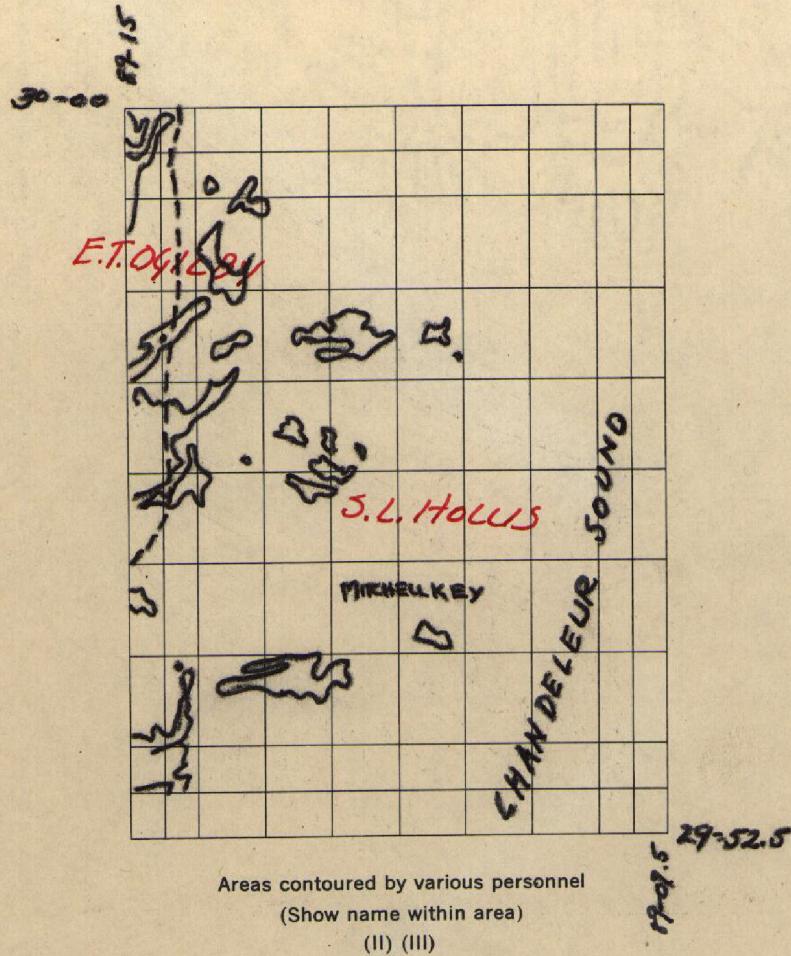
Y=

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.







## DATA RECORD

Field Inspection by (II): E.T.Ogilby  
S.L.Hollis, Jr.

Date: June - Aug. 1952

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

Date: June, Aug. 1952

Completion Surveys by (II):

See Review Report Item #66

Date:

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

Air Photo Compilation

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

Date: 25 May 1954

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

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Inapplicable

Date:

Contours

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

Date: 12 Oct. 1954

checked by (II) (III):

J.A.Giles



Camera (kind or source) (III): USC&GS 9-Lens Camera 8 $\frac{1}{4}$  focal length  
U.S. Navy Single-lens.

## PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
MDA-04-026	25 Feb. 1952		1:20,000	
" 04-027	"		"	
" 04-028	"		"	
" 06-150	"		"	
" 15-003	"		"	
" 15-004	"		"	
" 29-014	"		"	
" 29-015	"		"	
" 29-016	"		"	
39340	28 Sept. 1952	9:29	"	+1.7
39341	"	9:30	"	"
39342	"	9:31	"	"
39356	"	9:49	"	"
39357	"	9:50	"	"

Tide (III)

From Predicted Tides

Reference Station: Pensacola  
Subordinate Station: Cat Island  
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
		1.3
1.3		1.7

Washington Office Review by (IV):

A.K. Heywood

Date: Oct 1957

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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)\*

Recovered: 2

Identified: 2 (4)\*

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): None

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

Remarks:

( )\* Third-order stations established

## 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 planetable 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 67 camera photographs taken in 1955 were used to revise delineation where necessary. There were few such cases.

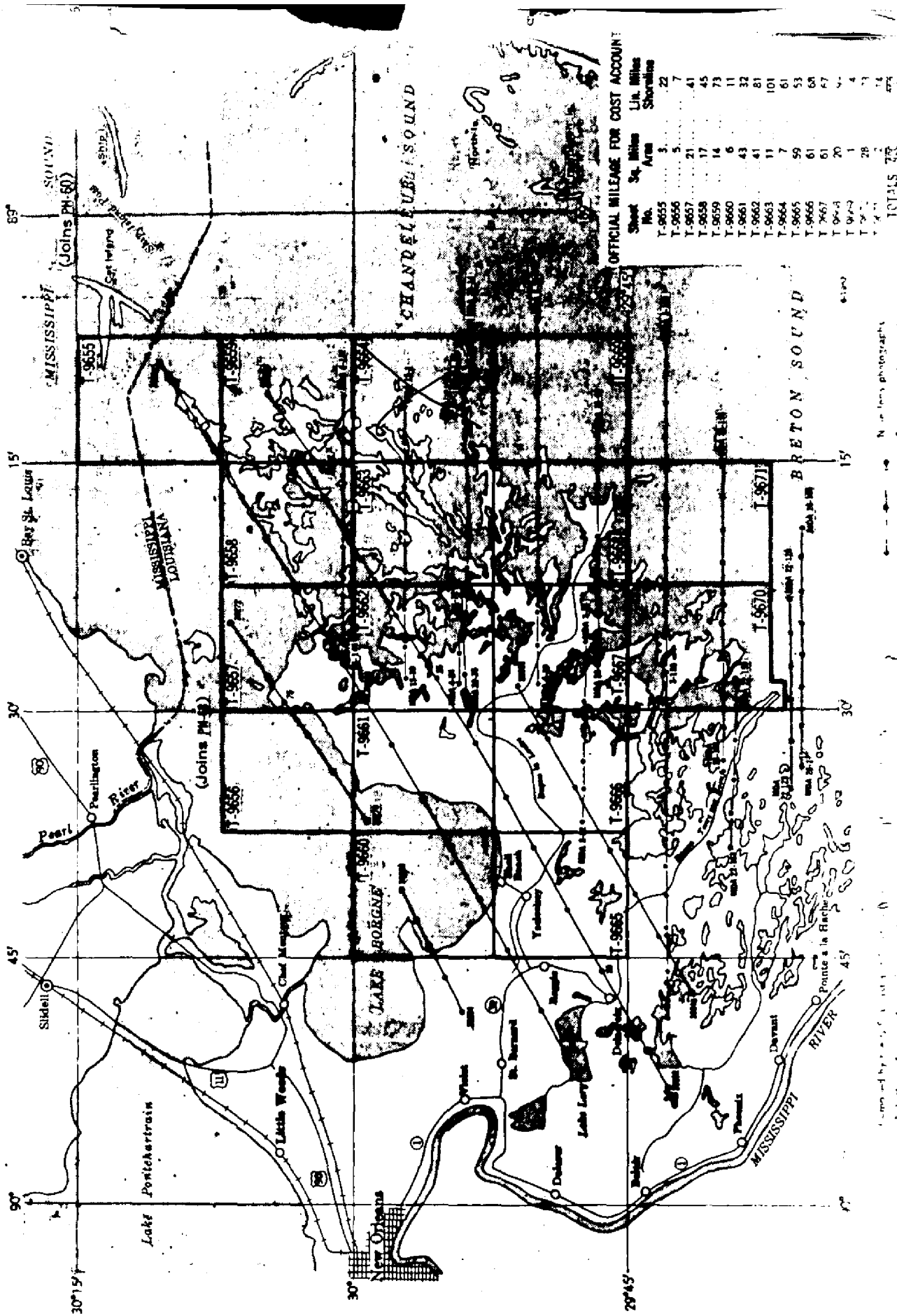
With the addition of hydrographic data these maps will be forwarded to the Geological Survey for publication as standard 7½ minute quadrangles.

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



# LOUISIANA, Breton Sound to Breton Sound

(Refer to 7-2, Photo Index, page 1119 G.)



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 photograph 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, KEEL 2 1952, and MITCHELL KEY LT. 1952.

Stations MITCHELL ISLAND 1921, MITCHELL KEY LIGHT 1934, and KEEL 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.*

B. Frank Lampton, Jr.  
Cartographic Survey Aid

Approved & Forwarded  
16 September 1952

*Percy L. Bernstein*

Percy L. Bernstein  
Chief of Party

COMPILATION REPORT T-9664

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. BOUNDRIES 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

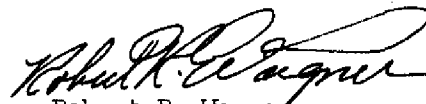
Comparison was made with C&GS Chart 1268, scale 1:80,000 dated Sept. 1940, corrected 13 April 1953. The same differences are to be found as listed in Item 46 for T-5327 since it is thought to be the source of topography.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

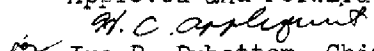
None

ITEMS TO BE CARRIED FORWARD

None

  
Robert R. Wagner  
Carto Photo Aid

Approved and Forwarded

  
Ira R. Rubottom, Chief of Party

T-9664

Geographic Names.

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

Redfish 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.



**8 October, 1955**

The positions given have been checked after listing by

**Ira R. Robertson** *Chief of Party*

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 shall be as follows:



## PHOTOGRAMMETRIC OFFICE REVIEW

50.

T- 9664

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

5. Classification ~~Unclassified~~

## 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  
9. Plotting of sextant fixes XX 10. Photogrammetric plot report J.G. 11. Detail points J.G.

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line J.G. 14. Rocks, shoals, etc. XX 15. Bridges XX 16. Aids to navigation J.G. 17. Landmarks XX 18. Other alongshore physical features J.G. 19. Other along-shore cultural features J.G.

## PHYSICAL FEATURES

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

## CULTURAL FEATURES

27. Roads XX 28. Buildings J.G. 29. Railroads XX 30. Other cultural features XX

## BOUNDARIES

31. Boundary lines J.G. 32. Public land lines J.G.

## MISCELLANEOUS

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

40. Jesse A. Giles  
Jesse A. Giles Reviewer

William A. Rasore  
William A. Rasore 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 supercedes 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 "W" camera photography taken in 1955.

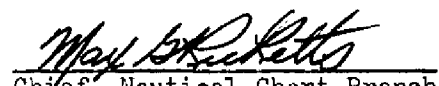
No changes were made.

Reviewed by:

  
A. K. Heywood

Approved:

  
Chief, Review Branch  
Photogrammetry Division

  
Chief, Nautical Chart Branch  
Charts Division

*Wing* *J. Bull*  
Chief, Photogrammetry Division *msf*

*W. R. Hull*  
Chief, Coastal Surveys