

9109

Diag. Cht. Nos. 1277 & 1115-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. PH 22 (12) Office No. T-0109

LOCALITY

State LOUISIANA

General locality VERMILION BAY

Locality REDFISH POINT

194' 51

CHIEF OF PARTY

C. W. Clark, Chief of Field Party.

A. L. Wardwell, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE Mar - 12 - 1952

B-1870-1 (1)

9109

Part. Applied to chart 883 Feb 1954 PWA

DATA RECORD

T-9109

Project No. (II): **PH33(48)**

Quadrangle Name (IV):

Field Office (II): **Abbeville, La.**

Chief of Party: **Charles W. Clark**

Photogrammetric Office (III): **Tampa, Fla.**

Officer-in-Charge: **Arthur L. Wardwell**

Instructions dated (II) (III): **2 July 1948**

Copy filed in Division of
Photogrammetry (IV)
Office Files

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): **7-3-50** Date reported to Nautical Chart Branch (IV): **7-7-50**

Applied to Chart No.

Date:

Date registered (IV): **2-21-52**

Publication Scale (IV): **1:24,000**

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): **Hole, 1933 (on T-9113)**
~~Vermilion, 1913 (T-9108)~~

Lat.: ~~29° 42' 57" (1759.4m)~~
29° 37' 11.587" (356.8m)

Long.: ~~92° 08' 48" (1297.9m)~~
92° 06' 09.385" (252.5)

Adjusted
~~coordinates~~

Plane Coordinates (IV):

State: **Louisiana** Zone: **South.**

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.

W. M. Reynolds

Areas contoured by various personnel
(Show name within area)
(II) (III)

Camera (kind or source) (III): U.S.C.&G.S. 9 Lens, $8\frac{1}{4}$ " focal length

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
22040	13 Mar. 48	15 13		1:20,000	+0.6
22041	13 Mar. 48	15 14		"	"
22057	13 Mar. 48	15 35		"	"
22058	13 Mar. 48	15 36		"	"

Tide (III)

Reference Station: Galveston
 Subordinate Station: Southwest Pass, Vermilion Bay
 Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
1.0	1.0	1.4
1.1	1.1	1.6

Washington Office Review by (IV): *K. N. Maki*

Date: 28 Nov. 1951

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 3
 Shoreline (More than 200 meters to opposite shore) (III): 8.9
 Shoreline (Less than 200 meters to opposite shore) (III): 0.7
 Control Leveling - Miles (II): *
 Number of Triangulation Stations searched for (II): 1
 Number of BMs searched for (II): None
 Number of Recoverable Photo Stations established (III): 5
 Number of Temporary Photo Hydro Stations established (III): 0

Recovered: 0 Identified: -
 Recovered: - Identified: -

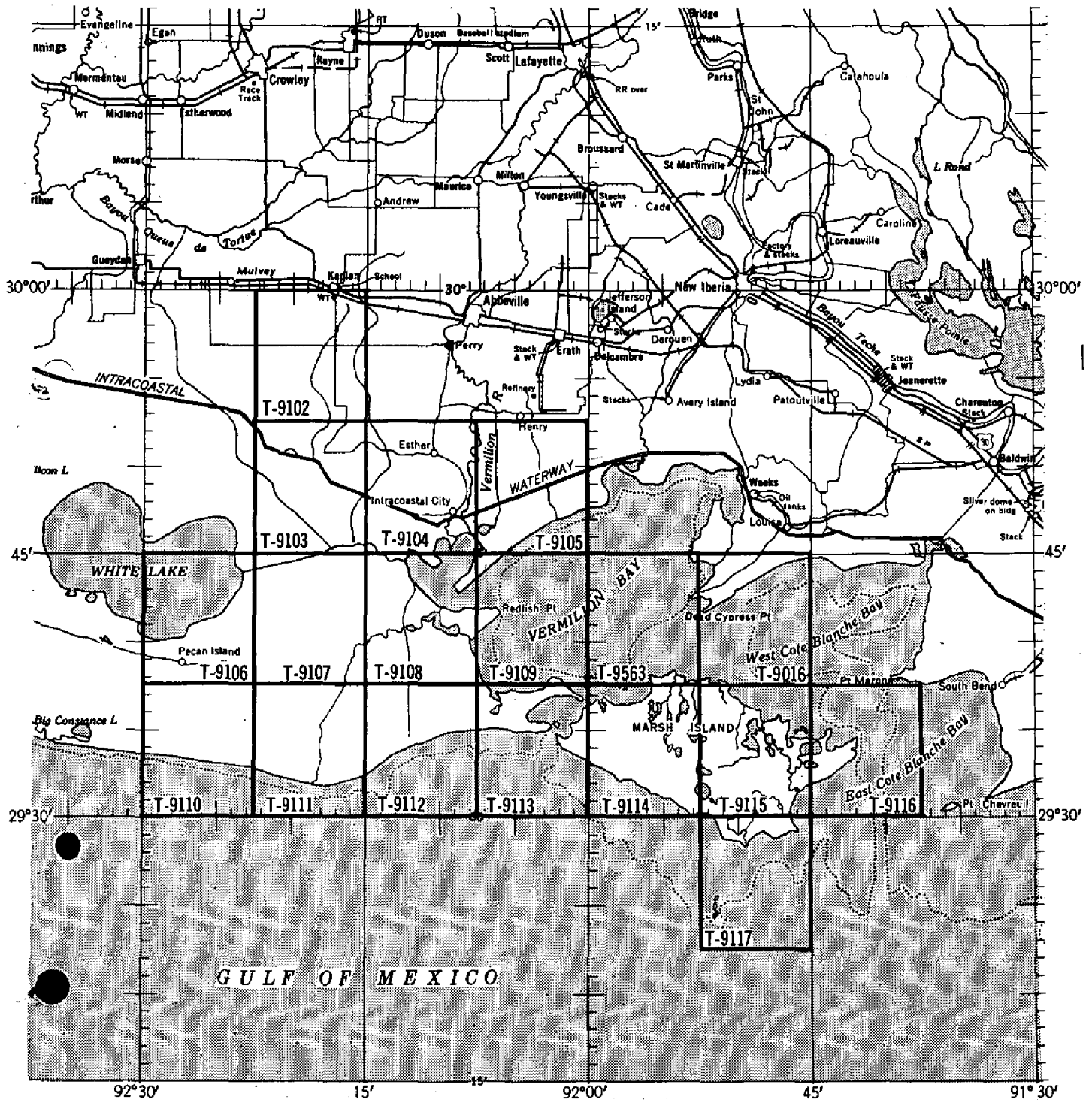
Remarks:

* For control leveling see Item 6.

**** Completion Surveys.**

Field edit coverage from adjoining surveys was carried sufficiently beyond their limits to include most of the land area of T-9109. Exception is Redfish Point. Refer to T-9104 for field edit on N.W. corner of T-9109 and to T-9108 for field edit on SW corner of T-9109.

TOPOGRAPHIC MAPPING PROJECT PH 33 (48)

LOUISIANA INTRACOASTAL WATERWAY
East Cote Blanche Bay — White Lake

6

SUMMARY TO ACCOMPANY T-9109

T-9109 is one of 18 topographic quadrangles in project Ph-33(48) on the Louisiana coast southwest of New Orleans in the vicinity of Vermilion Bay. This map covers the western part of Vermilion Bay. The area covered is for the most part water with the land area limited to several small sections of the mainland. The land area is almost entirely marsh land with cultural features at a minimum, of which the Vermilion River Cutoff and two aids to navigation are the most important. The field operations preceding compilation included complete field inspection. The maximum elevation in the quadrangle is 6 feet where a 5 foot contour is shown at the west side of the entrance to the Vermilion River Cutoff. The map is a graphic compilation at a scale of 1:20,000 and consists of one sheet $7\frac{1}{2}'$ in latitude by $7\frac{1}{2}'$ in longitude. This map was not specifically field edited but field edit of the adjoining surveys was carried beyond their limits to include most of the small sections of land area and all fixed aids to navigation on this map.

The map is to be published by the U. S. Geological Survey at a scale of 1:24,000 as a standard $7\frac{1}{2}'$ topographic quadrangle. The registered data to be permanently filed in the Bureau Archives under T-9109 will include a cloth-mounted lithographic print of the map manuscript at a scale of 1:20,000, a cloth-mounted lithographic print of the published map at scale 1:24,000 and the original descriptive report. Hydrographic data, depth curves and critical soundings, will appear on the published map only.

FIELD INSPECTION REPORT
 Quadrangle T-9109
 (29-07.5/92-00.0/7.5)
 Project Ph-33(48)
 Charles W. Clark, Chief of Party

All phases of field work were completed in accordance with The Director's Instructions, Project Ph-33(48), Field, dated *Sept. 1* 2 July 1948; and other applicable instructions as noted herein.

The various phases of field work were done by the following personnel during the indicated periods of time:

NAME	PHASE	MONTH, 1948
William M. Reynolds	Horizontal Control Recovery	July
Cartographer (Photo)	Shoreline Inspection	July
	Interior Field Inspection	July, December
	Contours	December
James H. Clark	Horizontal Control Recovery	August
Engineering Aid	Shoreline Inspection	August

1. DESCRIPTION OF THE AREA:

This quadrangle has very little land area within its limits. Lying astride the western part of Vermilion Bay; Redfish Point in the west side, Indian Point on the south side, a small area of marsh between Redfish Point and Hell Hole, and another small area of marsh around the entrance to Vermilion River and Bay cutoff canal.

The industries of the area are: a limited amount of fishing in the waters of Vermilion Bay and the trapping of fur bearing animals in the marsh.

2. COMPLETENESS OF FIELD INSPECTION:

Field inspection is believed to be adequate and complete.

3. INTERPRETATION OF THE PHOTOGRAPHS:

See Field Inspection Report T-9108.

4. HORIZONTAL CONTROL:

No horizontal control known to exist within the quadrangle prior to start of field work was recovered. No other horizontal control of third-order or better accuracy was established.

MUDDY, 1933 was searched for and not recovered.

5. VERTICAL CONTROL:

No vertical control exists within the quadrangle. See next paragraph.

14. ROAD CLASSIFICATION:

There are no roads in the quadrangle.

15. BRIDGES:

There are no bridges in the quadrangle.

16. BUILDINGS AND STRUCTURES:

All buildings were classified in accordance with Photogrammetry Instructions No. 29, dated 1 October 1948. *Filed in Div. Photogrammetry Office Files*

17. BOUNDARY MONUMENTS AND LINES:

See "Special Report - Boundaries - Ph-33(48)".
In General Files Div. of Photogrammetry

18. GEOGRAPHIC NAMES:

The names as reported in "Special Report on Geographic Names, Gulf Intracoastal Waterway, Vermilion Bay, La. to Port Arthur, Texas, - Project Ph-14(46)" were verified. *In Geographic Names Section, Div. of Charts*

No further systematic investigation of geographic names was made.

A new name not covered by the above report is the name VERMILION CHANNEL. Recommendations for this name are adequately covered in, "Special Report - Coast Pilot Information - Project Ph-33(48)".

19. COAST PILOT INFORMATION:

See "Special Report - Coast Pilot Information - Project Ph-33(48)".
Filed in Coast Pilot Sect., Div. of Charts.

Submitted:
31 December 1948

William M. Reynolds
William M. Reynolds
Cartographer (Photo)

Approved:
10 January 1949

Charles W. Clark
Charles W. Clark
Lt. Comdr. U.S.C. & G.S.
Chief of Party

James H. Clark
James H. Clark
Engineering Aid

Sm

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-9113.

31. DELINEATION

The graphic method was used in the delineation of this map manuscript.

The scale of the photographs was reasonably good, that of photograph 22041 being the best.

32. CONTROL

A sufficient number of well placed Secondary Control Points were established to insure establishment of detail points.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

The drainage was delineated as shown on the photographs. Only one small contour at the entrance to Vermilion Channel appears. It has been delineated as shown by the Field Inspector.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. Alongshore details have been delineated as shown by the field inspection.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

There are no landmarks.

The theodolite cuts submitted by the field inspection party for the aids at the entrance to Vermilion Channel gave some difficulty. All cuts from SUB. PT. SAND appear to be in error but it is believed the aids are accurately located and require no further field investigation. *

* Cuts fall approx. 1.5 m.m south of the photo location (along centerline of beacons). Photo location ok. K.H.M.

38. CONTROL FOR FUTURE SURVEYS

Five topographic stations are being submitted on Form 524. These topographic stations ~~have been listed under Item No. 49.~~ *etc as follows:*

39. JUNCTIONS

*Date, 1948 Mon A-43, 1948
May " Vermilion Channel Lt. 1, 1948.
Oct " T-9563**

A satisfactory junction has been made with T-9114 on the eastern limits, T-9105 on the northern limits, T-9108 on the western limits, and T-9113 on the southern limits.

** New survey number not in original project layout.*

40. HORIZONTAL AND VERTICAL ACCURACY

No statement required.

41. SECTION LINES

There were no section corners recovered by the field inspection party. It is believed, however, that the recovered section corners on adjoining quadrangles gave sufficient control for the establishment of the section lines of this map manuscript.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with topographic quadrangle "REDFISH POINT, LA.(N.E.)1932, U.S. Geological Survey, scale 1:31,680. The following discrepancies were noted:

Vermilion Channel is not shown on ~~this map~~ the U.S.G.S. Quadrangle.

A spoil island now exists just southwest of the entrance to Vermilion Channel.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart No. 1277, scale 1:80,000 published Nov. 1938 and bearing a print date of 11 April 1949.

The island mentioned under Item 46 is not shown on the chart.

No other discrepancies were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Rudolph Dossett
Rudolph Dossett
Cartographer, Photogrammetric

Approved and Forwarded:

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

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T-9109

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

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) JG ~~XX~~
9. Plotting of sextant fixes WAR 10. Photogrammetric plot report JG 11. Detail points JG

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline JG ~~12. Low water line~~ 12. Rocks, shoals, etc. 12. Bridges 16. Aids
to navigation JG ~~17. Landmarks~~ 18. Other alongshore physical features JG 19. Other along-
shore cultural features JG

PHYSICAL FEATURES

20. Water features JG 21. Natural ground cover JG 22. Planetable contours JG ~~23. Stream deposits~~
~~24. Stream channels~~ 24. Contours in general JG 25. Spot elevations JG 26. Other physical
 features JG

CULTURAL FEATURES

~~XX Roads~~ 28. Buildings JG ~~XX Railroads~~ 30. Other cultural features

BOUNDARIES

31. Boundary lines JG 32. Public land lines JG

MISCELLANEOUS

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

40. Jesse A. Giles William A. Hasure
Reviewer 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:

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

PHOTOGRAMMETRIC REVIEW SECTION

TO BE CHARTED

STRIKE OUT ONE

Abbeville, Louisiana.

21 October 1948

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(SHEET 32600)~~ the charts indicated.

The positions given have been checked after listing by

Tampa Photogrammetric Office

Charles W. Clark, *Chief of District*

[illegible]

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

NONFLOATING AIDS ORGANIZATIONS FOR CHARITIES

STRIKE OUT ONE

Washington, D. C.

July 16, 1957 1957

I recommend that the following objects which have ~~(been removed)~~ been inspected from seaward to determine their value as landmarks be characterized ~~(Deleted from)~~ the charts indicated.

The positions given have been checked after listing by K. F. Wakri

44-38861-53

Chief of Party.

[illegible]

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

48. GEOGRAPHIC NAME LISTINDIAN POINTLOUISIANANORTH LAKEPAUL J. RAINEY WILDLIFE SANCTUARYPOLICE JURY WARD 2POLICE JURY WARD 7REDFISH POINTSTATE GAME REFUGEVERMILION BAYVERMILION CHANNELVERMILION PARISHVERMILION RIVER CUTOFF

Checked & approved

7-9-51

a.j.w.

REVIEW REPORT T-9109
Topographic Map
28 November 1951

62. Comparison with Registered Topographic Surveys:

T-1684	1:20,000	1886
T-1685	1:20,000	1886

This map supersedes these surveys for nautical charting purposes.

63. Comparison with Maps of Other Agencies:

Redfish Point, La. (advance copy) 1:31,680 USGS 1932
See item 46.

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

1277	1:80,000	ed. 1938	corr. 3/19/51
1051	1:175,000	ed. 1941	corr. 3/7/49
1116	1:458,596	ed. 1943	corr. 5/29/50

Vermilion Channel Daybeacons 3 and 5 shown on chart 1277 were reported as destroyed and are not shown on the map. Form 567 has been submitted to the Nautical Chart Branch, Chart Division. A copy is attached to this descriptive report.

66. Adequacy of Results and Future Surveys:

This map is adequate and complete as a base for hydrographic surveys and nautical chart construction. It complies with National Map Accuracy Standards.

67. Section Lines and Boundaries:

The General Land Office (Bureau of Land Management) plats were used to derive the section lines, excluding section numbering, in the northwest area of this map. They are tied to recovered accepted corners on the adjoining survey to the north, T-9105.

The development of section lines on Redfish Point,

the southwest area of the map and on Indian Point, are based on a private survey by E. A. McIlhenney, which are shown on this map in dotted lines. The lines as surveyed by McIlhenney should not be shown on the published map. The lines to be shown and those to be omitted are indicated on the drafting overlay.

The numbering of sections on this map differs from those on the G.L.O. plats. The land lines are developed westward from the accepted section corners on T-9105 and tie in the correct numbering sequence with the sections on T-9104. It is to be noted that on the U.S.G.S. Abbeville, La. (SW) quadrangle the section numbers in T-15S do not join those in T-14S in the correct sequence. However, though this is not in disagreement with the G.L.O. plats, it is recommended that the section numbering as shown on this and adjoining maps be accepted since they are based on the recovery of now extant accepted corners.

68. Delineation: (Mean high water line)

There is a narrow shell fringe inshore between the marsh and apparent shoreline but in most instances it is so narrow and close to the apparent shoreline that it is impracticable to show on the map. Field edit has shown several areas of shell build up and the MHW line is shown in these instances instead of apparent shoreline.

69. Geographic Names:

The list of geographic names attached to this report has been approved by the Geographic Names Section, Division of Charts.

Reviewed by:

K. N. Maki
K. N. Maki

Approved by:

S. V. Lippitt 2/27/52 H. E. Edmonston
Chief, Review Section Chief, Nautical Chart Branch
Div. of Photogrammetry Division of Charts

O. S. Reading Earl O. Heston
Chief, Div., Photogrammetry Chief, Div. Coastal Surveys
MSH 1814

History of Hydrographic Information
Quadrangle T-9109
Area of Vermilion Bay, Louisiana

Hydrography was applied to the manuscript of this quadrangle in accordance with Division of Photogrammetry general specifications dated 18 May 1949.

Soundings and the depth curve at 6 feet mean low water datum - originate with the following:

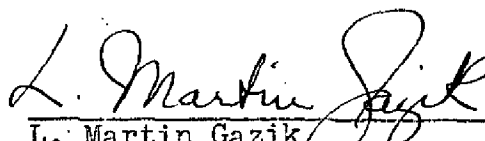
USC&GS Hydrographic Surveys:

H - 1777		
H - 1821		
H - 1822	(1888)	1:20,000

USC&GS Nautical Charts:

883	(1950)	1:40,000
1277	(1951)	1:80,000

Hydrography was compiled by L. Martin Gazik and checked by R. E. Elkins.



L. Martin Gazik
Div. of Photogrammetry
15 January 1952

NAUTICAL CHARTS BRANCH

SURVEY NO. _____

Record of Application to Charts

[illegible]

M-2168-1

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.