U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey  TOPOGRAPHIC

Field No.  D-23(12)  Office No.  T-9109

LOCALITY

State  LOUISIANA

General locality  VERMILION BAY

Locality  REDDEL BETWEEN

194751

CHIEF OF PARTY
C. W. Clark, Chief of Field Party.
A. L. Hardwell, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE  Mar-12-1952
Chart applied to chart 883 Feb 1954
DATA RECORD

T-9109

Project No. (II): Ph3(48)  Quadrangle Name (IV):

Photogrammetric Office (III): Tampa, Fla.  Officer-in-Charge: Arthur L. Wardwell
Instructions dated (II) (III): 2 July 1948  Copy filed in Division of
Office 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): 7-3-50  Date reported to Nautical Chart Branch (IV): 7-7-50

Aplied to Chart No.  Date:  Date registered (IV): 2-21-52

Publication Scale (IV): 1:25,000  Publication date (IV):

Geographic Datum (III): N.A. 1927  Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (m) refer to mean high water
Elevations shown as (i) refer to sounding datum
i.e., mean low water or mean lower low water

Hole, 1933 (on T-9119)
Reference Station (III): Vermilion, 1913 (T-6108)

Lat.: 29° 41' 57.4" N (75° 14.2")  Long.: 92° 06' 03.385" W (297.9")
29° 37' 1/1.587" (352.8")  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)

W. M. Reynolds
DATA RECORD

Field Inspection by (II): William M. Reynolds  
                                James H. Clark  
                                Date: July-Dec., 1948  
                                August, 1948

Planetable contouring by (II): William M. Reynolds  
                                Date: Dec. 1948

Completion Surveys by (II): None  See Remarks p.4  
                                Date:

Mean High Water Location (III) (State date and method of location): Date of photographs - air photo compilation

Projection and Grids ruled by (IV): W.E.W., (Washington Office)  
                                Date: 27 Oct. 1948

Projection and Grids checked by (IV): " ( " " )  
                                Date: 22 Mar. 1949

Control plotted by (III): J. F. Armstrong  
                                Date: 20 June 1949

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

Radial Plot: M. M. Slavney  
                                Date: 13 Feb. 1950

Stereoscopic Instrument compilation (III): Inapplicable  
                                Date:

Planimetry

Stereoscopic Instrument compilation (III): Contours  
                                Date:

Manuscript delineated by (III): R. Dossett  
                                Date: 31 Mar. 1950

Photogrammetric Office Review by (III): J. A. Giles  
                                Date: 29 April 1950

Elevations on Manuscript: R. Dossett  
                                Note: Reference Item 6.
                                Date: 27 Mar. 1948

Form T-Page 3
Camera (kind or source) (III): U.S. & G.S. 9 Lens, 8½" focal length

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>22040</td>
<td>13 Mar. 48</td>
<td>15 13</td>
<td>1:20,000</td>
<td>+0.6</td>
</tr>
<tr>
<td>22041</td>
<td>13 Mar. 48</td>
<td>15 14</td>
<td></td>
<td>+0</td>
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<tr>
<td>22057</td>
<td>13 Mar. 48</td>
<td>15 35</td>
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</tr>
<tr>
<td>22058</td>
<td>13 Mar. 48</td>
<td>15 36</td>
<td></td>
<td>+0</td>
</tr>
</tbody>
</table>

Tide (III)

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

Washington Office Review by (IV): K. N. Ishimi

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

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 Recovered: 0 Identified: -
Number of BMs searched for (II): None Recovered: - Identified: -
Number of Recoverable Photo Stations established (III): 5
Number of Temporary Photo Hydro Stations established (III): 0

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 of N.W. corner of T-9109 and to T-9108 for field edit of S.W. corner of T-9109.
SUMMARY TO ACCOMPANY T-9109

T-9109 is one of 18 topographic quadrangles in project Ph-33(46) 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 7½' in latitude by 7½' 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 7½' 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 see p.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:

<table>
<thead>
<tr>
<th>NAME</th>
<th>PHASE</th>
<th>MONTH, 1948</th>
</tr>
</thead>
<tbody>
<tr>
<td>William M. Reynolds</td>
<td>Horizontal Control Recovery</td>
<td>July</td>
</tr>
<tr>
<td>Cartographer (Photo)</td>
<td>Shoreline Inspection</td>
<td>July</td>
</tr>
<tr>
<td></td>
<td>Interior Field Inspection</td>
<td>July, December</td>
</tr>
<tr>
<td></td>
<td>Contours</td>
<td>December</td>
</tr>
<tr>
<td>James H. Clark</td>
<td>Horizontal Control Recovery</td>
<td>August</td>
</tr>
<tr>
<td>Engineering Aid</td>
<td>Shoreline Inspection</td>
<td>August</td>
</tr>
</tbody>
</table>

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
Chief of Party
PHOTOGRAVIMETRIC 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 mm south on the photo location (along centerline of beacon... photo location?)
38. CONTROL FOR FUTURE SURVEYS

Five topographic stations are being submitted on Form 524. These topographic stations have been listed under Item No. 17. SPC as follows:

**DATE: 1948, MON A-43, 1948**

**JOB:** Vermilion Channel Lt. 1, 1948.

**JUNCTIONS**

A satisfactory junction has been made with T-914 on the eastern limits, T-9105 on the northern limits, T-9106 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 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.

Approved and Forwarded:

Rudolph Dosssett
Cartographer, Photogrammetric

Arthur L. Wardwell
Chief of Party
PHOTOGRAMMETRIC OFFICE REVIEW
T-9109


CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  JG  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  JG

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines  JG  32. Public land lines  JG

MISCELLANEOUS
40. Jesse A. Giles  William A. Reasure
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:
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 R. Bossett, Tampa Photogrammetric Office.

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT. 1</td>
<td>Vermilion Channel - Black box on dolphin</td>
<td></td>
<td>29 44 104</td>
<td>92 06 716</td>
<td>1927</td>
<td>T-9109</td>
<td>Aug. 1948</td>
<td>x 1277, 1083</td>
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<tr>
<td>EN. 3</td>
<td>Vermilion Channel - Black pointer on pile, white reflect.</td>
<td></td>
<td>29 44 312</td>
<td>92 06 845</td>
<td>n</td>
<td>n</td>
<td>x</td>
<td>n</td>
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<tr>
<td>EN. 5</td>
<td>Vermilion Channel - Black pointer on pile, white reflect.</td>
<td></td>
<td>29 44 517</td>
<td>92 06 966</td>
<td>n</td>
<td>a</td>
<td>x</td>
<td>a</td>
</tr>
<tr>
<td>EN. 7</td>
<td>Vermilion Channel - Black pointer on pile, white reflect.</td>
<td></td>
<td>29 44 731</td>
<td>92 06 1090</td>
<td>n</td>
<td>n</td>
<td>x</td>
<td>a</td>
</tr>
<tr>
<td>EN. 1</td>
<td>Vermilion River Entrance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS:

Washington, D. C. July 16, 1951

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

The positions given have been checked after listing by R. H. Harl

S. V. Griffith Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>LOUISIANA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>-------</td>
<td>------------</td>
</tr>
<tr>
<td>En 3</td>
<td>Vermilion Channel-Black center on pile, white reflect.</td>
</tr>
<tr>
<td>En 5</td>
<td>Vermilion Channel-Black pointer on pile, white reflect.</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids are to be used as a guide only. The data should be considered for the charts of the area and not for navigation.
48. GEOGRAPHIC NAME LIST

INDIAN POINT

LOUISIANA

NORTH LAKE

PAUL J. RABEY WILDLIFE SANCTUARY
POLICE JURY WARD 2
POLICE JURY WARD 7

REDFISH POINT

STATE GAME REFUGE

VERMILION BAY
VERMILION CHANNEL
VERMILION PARISH
VERMILION RIVER CUTOFF

Checked & Approved
7-9-51
a.d.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:

<table>
<thead>
<tr>
<th>Chart</th>
<th>Scale</th>
<th>Date</th>
<th>Correction Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1277</td>
<td>1:80,000</td>
<td>ed. 1938</td>
<td>corr. 3/19/51</td>
</tr>
<tr>
<td>1051</td>
<td>1:175,000</td>
<td>ed. 1941</td>
<td>corr. 3/7/49</td>
</tr>
<tr>
<td>1116</td>
<td>1:458,596</td>
<td>ed. 1943</td>
<td>corr. 5/29/50</td>
</tr>
</tbody>
</table>

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 work 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

Approved by:

Chief, Review Section  Chief, Nautical Chart Branch
Div. of Photogrammetry  Division of Charts

Chief, Div., Photogrammetry  Chief, Div. Coastal Surveys
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**

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-22-54</td>
<td>1277</td>
<td>[Signature]</td>
<td>Before After Verification and Review</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>No Crit. Corr. Excm</td>
</tr>
</tbody>
</table>

- Before After Verification and Review

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.