# DESCRIPTIVE REPORT

**Type of Survey**: PLANIMETRIC  

**Field No.**: Ph-36(48)A  
**Office No.**: T-9183  

## LOCALITY

**State**: TEXAS  

**General locality**: CORPUS CHRISTI BAY  
**Locality**: INDIAN POINT

---

**CHIEF OF PARTY**:  
C. W. Clark, Chief of Party.  
H.A. Paton, Baltimore Photogrammetric Office

---

**DATE**: Dec-2-1953
DATA RECORD

T-9183

Project No. (II): Ph-38(48)A
Quadrangle Name (IV):

Field Office (II): Corpus Christi, Texas
Chief of Party: C. W. Clark
Photogrammetric Office (III):
Baltimore, Maryland
Officer-in-Charge: Hubert A. Patton

Instructions dated (II) (III):
14 February 1949
Supplement No. 2 (Field) 26 July 1949
8 June 1949
28 July 1949

Date reported to Nautical Chart Branch (IV): 1/19/50

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000
Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): 1/12/50
Date registered (IV): 7/30/53

Applied to Chart No. 523
843
Date: 1/23/50
11/19/51

Publication Scale (IV): Not published
Publication date (IV):

Geographic Datum (III): N.A. 1927
Vertical Datum (III): M.H.W.

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): Indian Point, 1933

Lat.: 27° 51' 08.480" (261m) Long.: 97° 21' 27.620 (755.7m) Adjusted

Reference Station (III): Indian Point, 1933

Plane Coordinates (IV):

Y = Adj.
X = Unadj.

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)

Planimetric
DATA RECORD

F. M. Wisiecki

Field Inspection by (II): W. M. Reynolds

Date: June 1949

Planetable contouring by (II): None

Date:

Completion Surveys by (II): W. Shearose

Date: Oct 26, 1949

Mean High Water Location (III) (State date and method of location): 12/6/48

Identified on field photographs

Projection and Grids ruled by (IV): W.E.W.

Date: 6-23-49

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

Date: 6-27-49

Control plotted by (III): F. J. Zaraza

Date: 8-3-49

Control checked by (III): B. Wilson

Date: 8-15-49

Radial Plot or Stereoscopic
Control extension by (III):

Date:

Planimetry

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): Ruth M. Whitson

Date: 12-14-49

Photogrammetric Office Review by (III): R. Glaser

Date: 1-3-50

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

None

Date:
Camera (kind or source) (III): U.S.C. & G.S. single lens, type 0, Focal length 6 inches.

### PHOTOGRAPHS (III)

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### Contact prints

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Reference Station: Galveston
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): C. Theuer
Final Drafting by (IV): Elmer Le Huntington
Drafting verified for reproduction by (IV): W. H. Hallman

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 1 1/4 sq. Statute mile
Shoreline (More than 200 meters to opposite shore) (III): 9
Shoreline (Less than 200 meters to opposite shore) (III): 4
Control Leveling - Miles (II): 0
Number of Triangulation Stations searched for (II): 17
Recovered: 16
Identified: 16
Number of BMs searched for (II): 1
Recovered: 1
Identified: 1
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
Project Ph-36(d) consists of fifty-two quadrangles at 1:20,000, each 7.5 minutes in latitude and longitude, covering the Gulf Coast of Texas and the Intracoastal Waterway from Aransas Bay to Brazoria and the Mexican border. Adjoining the project to the north is a series of shoreline surveys in Part IV of Project Ph-14(d).

Information concerning Ph-36(d) in its broader aspects will be included in a project completion report to be compiled at the conclusion of the review of all surveys in this project.

Twenty-six of the quadrangles in this project are topographic surveys and are to be published at 1:20,000 scale by the Geological Survey. The other twenty-six quadrangles are planimetric surveys. Of these, nineteen are to be used as bases by the Geological Survey for the compilation of 7.5 minute topographic quadrangles and will not be published as planimetric maps. The remaining, namely T-9165, T-9175, T-9176, T-9177, T-9185, T-9186, T-9204, and T-9205, will be published as planimetric maps.

Cloth-backed lithographic prints of the original map manuscripts at compilation scale and the descriptive reports for all maps in this project will be filed in the Bureau archives. Cloth-backed copies of the published topographic quadrangles at 1:20,000 scale will also be filed.

All special reports except the Geog. Names Report will be filed in the Project Completion Report.
2. **AREAL FIELD INSPECTION**

This quadrangle is located in southern Texas and just east of the city of Corpus Christi. The land area consists only of a narrow marshy point extending southwest from the small town of Portland for approximately 2.5 miles. This point is the dividing line between Corpus Christi and Nueces Bays.

The small settlement of Portland is the only inhabited part of the area. Portland is a small town and has no industry worthy of mention.

The majority of the area of this quadrangle is located in Corpus Christi Bay and a very small part in the NW corner is located in Nueces Bay. Nueces Bay is very shallow and has numerous shall and mud bars and is navigable for small, shallow draft boats only. Corpus Christi Bay has an average depth of 12 to 14 feet and is very much in use by commercial fishing. The shrimping industry is the major industry of the area. The Port Aransas-Corpus Christi Channel, which affords an outlet to the Gulf of Mexico, for sea going vessels crosses the quadrangle in an east-west direction.

U. S. Highway 181 and a branch of the Southern Pacific Railroad crosses the northwest corner of the quadrangle.

Field inspection is believed to be adequate and complete as of 15 June 1949.

One item was left for the field editor. A new causeway across Nueces Bay is under construction. Very little of the work has been done at the time of this survey and the exact location of the causeway could not be determined. Final location is to be done by the field editor.

The photographs were of recent date and no difficulty was encountered in interpreting them. The photograph tones vary from white in sand and shell areas to very dark in marsh.

3. **HORIZONTAL CONTROL**

All U. S. Coast and Geodetic Survey Stations were searched for or recovered. Bayview College Recitation Hall Belfry, 1905-1931 and Corpus Christi Channel Beacon No. 19 were searched for but not found.
See "Special Report on Supplemental Control; Project Ph-36 (48)" for additional control in this area.

4. **VERTICAL CONTROL**

One U.S.C. & G.S. Bench Mark was recovered and identified in this quadrangle; "Indian Point - 1933."

No additional vertical control was established by this party.

5. **CONTOURS AND DRAINAGE**

As this is a planimetric map, no contouring was done.

The only drainage in the area is run off into Corpus Christi and Nueces Bay.

6. **WOODLAND COVER**

There is no woodland cover within this quadrangle.

7. **SHORELINE AND ALONGSHORE FEATURES**

[See Review Report T-9160]

The mean high water line of the area is a narrow point which separates Corpus Christi Bay and Nueces Bay. The mean high water line on the NW side of the point is indefinite. Marsh line, on the SE side the mean high water line is fast land and is along the outshore edge of a narrow shell beach along the edge of the marsh.

Winds create the tidal action in Corpus Christi and Nueces Bay and the low water line is synonymous with the mean high water line.

A prominent bluff is found along the edge of the marsh SW of Portland. This bluff is from 25 to 40 feet high and is the most prominent natural feature of the area. The edge of the bluff is easily identified on the photographs.

Two small piers are located within the area. These are adequately covered by field inspection notes.

There are no Shoreline Structures other than the houses along the southern edge of the town of Portland.
8. OFFSHORE FEATURES

A wreck off Donnell Reef was reported and a search of the area was made by this party, but the wreck was not located. According to local information, the wreck is submerged at all times and will have to be located by a Hydrographic Party.

9. LANDMARKS AND AIDS

One landmark, for nautical charts, was selected. A small water tank in the town of Portland was identified on the photographs for location by the radial plot.

See "Special Report Location of Fixed Aids to Navigation Ph-36(48) Latitude 25° 00' to Baffin Bay."

10. BOUNDARIES, MONUMENTS, AND LINES

See "Special Report, Boundaries, Baffin Bay to Latitude 25° 00', Project Ph-36(48)."

11. OTHER CONTROL

No other control was established by this party.

12. OTHER INTERIOR FEATURES

There are no bridges or cables over navigable streams in the area. The clearance for the RR Bridge to Corpus Christi is 29' 1". The causeway was under construction. No clearance.

All roads were classified in accordance with Photogrammetry Instructions No. 10 dated 14 April 1947 as amended 24 October 1947.

Buildings and structures were classified in accordance with Photogrammetry Instructions No. 29, dated 1 October 1948.

13. GEOGRAPHIC NAMES

Field investigation of geographic names was in progress at this time. All names will be found in a special report; the title and limits of the area covered are not known at this time.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA
The following are special reports and other Supplemental Data applicable to this map.

"Special Report Boundaries - Baffin Bay to Latitude 28° 00', Project Ph-36(48)."

A special report on Geographic Names.

"Special Report, Location of Aids to Navigation, Project Ph-36 (48), Latitude 28° 00' to Baffin Bay."

A Special Report on Coastal Pilot Information.

"Special Report on Supplemental Control, Project Ph-36(48)."

Right of Way Map U. S. Highway 181.

Letter of Transmittal; Ph-36, Field-3.

Submitted:
20 June 1949

William M. Reynolds
WILLIAM M. REYNOLDS
Cartographer

Approved:
22 June 1949

Charles W. Clark
CHARLES W. CLARK
Lt. Comdr., USCGGS
Chief of Party
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
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<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
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<td>CORPUS CHRISTI CHANNEL LIGHT, 74</td>
<td>G-8133 P.6</td>
<td>NA</td>
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<td>39.315&quot;</td>
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<td>1927</td>
<td>97° 20'</td>
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<td>ENCINAL CHANNEL LIGHT 20, 1949</td>
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<td>&quot;</td>
<td>27° 48'</td>
<td>38.938&quot;</td>
<td>1196.6 (618.3)</td>
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<td>56.488&quot;</td>
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<td>27° 45'</td>
<td>39.938&quot;</td>
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<td>INDIAN POINT, 1933</td>
<td>G-2874 P.67</td>
<td>&quot;</td>
<td>97° 15'</td>
<td>23.322&quot;</td>
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<td>G-2874 P.67</td>
<td>&quot;</td>
<td>27° 51'</td>
<td>08.480&quot;</td>
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<td>G-2874 P.77</td>
<td>NA</td>
<td>97° 16'</td>
<td>44.879&quot;</td>
<td>1246.7 (598.2)</td>
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<td>&quot;</td>
<td>27° 48'</td>
<td>40.566&quot;</td>
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<td>&quot;</td>
<td>97° 18'</td>
<td>02.825&quot;</td>
<td>1242.3 (604.5)</td>
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<td>27° 48'</td>
<td>40.037&quot;</td>
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<td>27° 48'</td>
<td>35.365&quot;</td>
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<td>CORPUS CHRISTI CHANNEL BEACON No. 21, 1934</td>
<td>G-2874 P.77</td>
<td>&quot;</td>
<td>27° 18'</td>
<td>02.809&quot;</td>
<td>1074.1 (772.7)</td>
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<td>1074.1 (772.7)</td>
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1 FT = 0.0340995 METERS

COMPUTED BY: F. J. Taroza  DATE: 20 July 1949
CHECKED BY: M. L. Rosenberg  DATE: July 26, 1949
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<th>LONGITUDE OR $\lambda$-COORDINATE</th>
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<td>CORPUS CHRISTI CHANNEL BEACON No. 21, 1931</td>
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<td>33° 896'</td>
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<td>33° 613'</td>
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<td>33° 137'</td>
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<td>&quot;</td>
<td>27° 48'</td>
<td>33° 64'</td>
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<td>27° 48'</td>
<td>35° 194'</td>
<td>1083.3</td>
<td>(763.6)</td>
<td>1286.1</td>
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COMPILATION REPORT
T-9183

PHOTOMETERIC PLOT REPORT

Refer to radial plot report for this area, which is bound with the descriptive report for Survey No. T-9175.

31. DELENEATION

This survey was delineated by graphic methods.

The field party furnished the necessary information for locating four traverse stations on the centerline of the proposed Nueces Bay Causeway. Three of these traverse stations fall on this survey and one on the adjoining survey, T-9182. Of the three stations on this manuscript, only two were plotted and used in conjunction with the one on T-9182 to establish the location of the proposed centerline. The centerline of the proposed causeway thus established, was delineated on the back of the manuscripts with a black dashed line for the convenience of the field party. A discrepancy overlay has been prepared and is being submitted with this manuscript.

32. CONTROL

The identification, density and placement of the horizontal control was adequate.

33. SUPPLEMENTAL DATA

Geographic Names Standards No. 2 and No. 4, dated 11-4-49, were furnished by the Washington Office.

Special Report Boundaries - Baffin Bay to Latitude 28° 00', Project Ph-36 (L8).

Boundary Sheet No. 12A, the Nueces County Highway Map, and the Map of San Patricio County, Texas, were used in connection with the Boundary Report.

Special Report, Location of Aids to Navigation, Project Ph-36(L8) Latitude 28° 00', to Baffin Bay.

Photostat of Right of Way Map, U.S. Highway 181, for proposed causeway across Nueces Bay from Portland to Corpus Christi, Scale 1" = 400 ft., dated October 1946, office of District Engineer, Corpus Christi, Texas.
SUPPLEMENTAL DATA (cont'd)

Photostat of Proposed Corporate Limits of Portland, Texas, scale 1" = 660 ft., dated 20 February 1949, drawn by R. S. King.

CONTOURS AND DRAINAGE

Contours - inapplicable.

Drainage - Refer to Field Report, paragraph No. 5.

SHORELINE AND ALONGSHORE DETAILS

No comment.

Refer to the field report, paragraph 7.

OFFSHORE DETAILS

No comment.

Refer to Field Report, paragraph 8.

LANDMARKS AND AIDS

Form No. 567 is being submitted for a water tank in Portland. See Field Report, paragraph 9.

Form No. 567 for twenty-two non-floating aids to navigation which was furnished by Chas. W. Clark, June 15, 1949, was completed and is being submitted by this office. See Special Report Location of Fixed Aids to Navigation, Ph-36(I3), Latitude 29° 00' to Baffin Bay.

Chart letter $\xi$ ($\eta$)

CONTROL FOR FUTURE SURVEYS

No comment.

JUNCTIONS

Junction with Surveys Nos. T-9184 to the east, T-9182 to the west, T-9177 to the north, has been made and is in agreement.

The junction with Survey No. T-9187 to the south is a water area.
46. COMPARISON WITH EXISTING MAPS

This manuscript was compared with the U. S. Geological Survey, Corpus Christi, Texas, Quadrangle, scale 1:62,500, edition 1925, and Air Photo Compilation No. T-5365 (1934) and T-5367 (1934) of this bureau.

47. COMPARISON WITH NAUTICAL CHARTS

Survey No. 9183 has been compared with U.S.C. & G. S. Chart No. 583, scale 1:100,000, published at Washington, D. C., 10 October 1949, corrected to 19 September 1949.

Items to be applied to nautical charts immediately:

None.

Items to be carried forward:

None.

Respectfully submitted
16 December 1949

Ruth M. Whitson
Cartographic Draftsman

Approved and forwarded
10 January 1950

Hubert A. Paton
Officer in Charge,
Baltimore Photogrammetric Office
46. GEOGRAPHIC NAMES

Commissioner's Precinct IV
* Corpus Christi Bay
* Corpus Christi Channel

* Encinal Channel

* Indian Point
* Indian Reef

* Nueces Bay
* Nueces County

* Portland

* San Patricio County

Southern Pacific Railroad (SPRR)

Donnel Reef
Submerged (Red) Not Shown
Long Reef

* This feature does not appear on the manuscript, as it is not visible on the photographs.

Geographic names were taken from names standard furnished by the Washington office dated November 4, 1949.

Names underlined in red are approved.

9-26-52
HMG
ADDENDUM TO

COMPILATION REPORT

T-9183

31. DELINEATION

Map Manuscript T-9183 has been compared with nine lens photographs 25768 and 25769, dated May 4, 1950, scale 1:20,000. Revisions and additions have been made in red.

Respectfully submitted
18 September 1950

[Signature]

Joseph W. Vonasek
Cartographer (Photo.)
PHOTOGRAMMETRIC OFFICE REVIEW
T. 983

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

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  
7. Photo-hydro stations  
8. Benchmark  
9. Plotting of sextant fixes  
10. Photogrammetric plot report  
11. Detail points  

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline  
13. Low-water line  
14. Rocks, shoals, etc.  
15. Bridges  
16. Aids to navigation  
17. Landmarks  
18. Other alongshore physical features  
19. Other alongshore cultural features  

PHYSICAL FEATURES
20. Water features  
21. Natural ground cover  
22. Planimetric contours  
23. Stereoscopic instrument contours  
24. Contours in general  
25. Spot elevations  
26. Other physical features  

CULTURAL FEATURES
27. Roads  
28. Buildings  
29. Railroads  
30. Other cultural features  

BOUNDARIES
31. Boundary lines  
32. Public land lines  

MISCELLANEOUS
33. Geographic names  
34. Junctions  
35. Legibility of the manuscript  
36. Discrepancy overlay  
37. Descriptive Report  
38. Field inspection photographs  
39. Forms  
40. 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:
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on (strike from) the charts indicated.

The positions given have been checked after listing by

<table>
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</table>

Chart letter 5 12 (49)

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 should be given.
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on (strike out) the charts indicated.

The positions given have been checked after listing by

<table>
<thead>
<tr>
<th>State</th>
<th>Description</th>
<th>Light List</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>Method of Location and Survey</th>
<th>Date of Location</th>
<th>Charts Affected</th>
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</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 individual field survey sheets. Information under each column heading should be given.
DEPARTMENT OF COMMERCE
U. S. COAST AND GEOGRAPHIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

December 8, 1949

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. Glaser

Herbert A. Paton
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>Texas</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<tr>
<td>Tank</td>
<td>Portland water tank</td>
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<td>CHARTS AFFECTED</td>
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</table>

Chart letter 512 (49)

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 should be given.
51. **Methods.**—U. S. Highway 181 and other roads were travelled by truck to check their classification and answer questions raised by the Reviewer.

The U. S. Geological Survey contour sheet was not available for comparison but it should be used to take the new U. S. Highway 181 from and be examined for other planimetric changes.

Field edit information will be found on the Field Edit Sheet and photograph 48-C-1163. Violet ink was used for additions and corrections; green for deletions.

52. **Adequacy of compilation.**—This quadrangle is well-compiled and will be adequate after application of field edit information and comparison with the Geological Survey contour sheet.

53. **Map accuracy.**—No accuracy test was specified. From visual inspection only, the accuracy appears good.

54. **Recommendations.**—None offered.

55. **Examination of proof copy.**—Mr. Conrad M. Blucher, County Surveyor of Nueces County for many years, has agreed to make the examination. His address is County Courthouse, Corpus Christi, Texas.

No discrepancies were noted in geographic names.

Respectfully submitted,

26 October 1951

William H. Shearouse

William H. Shearouse, Cartographer
REVIEW REPORT T-9183
Planimetric Map
September 29, 1952

62. Comparison with Registered Topographic Surveys

<table>
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<th>Survey</th>
<th>Scale</th>
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This map supersedes these surveys for nautical charting purposes.

64. Comparison with Maps of other Agencies

USGS Corpus Christi SE Quad 1:20,000 1951

This planimetric map was used as a base by the Geological Survey in the compilation of the topographic quadrangle. No discrepancies were noted.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

Chart 523 1:40,000 1950

Not published at this date. No comparison made.

The new causeway connecting Rincon and Indian Points is not shown on the chart.

Many small shell bars in Mueces Bay are not shown on the chart.

66. Map Accuracy

This map conforms with the National Standards of Map Accuracy. See Review Report T-9176 for results of a horizontal accuracy test in this area.

Reviewed by:

\[Signature\]

C. Thurer

Approved by:

\[Signature\]

Chief, Review Section
Division of Photogrammetry

\[Signature\]

Chief, Nautical Chart Branch
Division of Charts

\[Signature\]

Chief, Div. Photogrammetry

\[Signature\]

Chief, Div. Coastal Survey
# Record of Application to Charts

<table>
<thead>
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<th>DATE</th>
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<th>REMARKS</th>
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<td>P.H. Benson</td>
<td>Before, After, Verification and Review, Partially Applied</td>
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<td>11/7/51</td>
<td>593</td>
<td>A.G. McGann</td>
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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.