9198

Diag. Cht. Nos. 1286-2 & 1287

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-36(48)B *Office No.* T-9198

LOCALITY

State TEXAS

General locality KLEBERG & KENEDY COUNTIES

Locality PADRE ISLAND

194 51

CHIEF OF PARTY

G.E.Morris,Jr.,Chief of Party

H.A.Paton,Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE Nov - 3 - 1953

8-1870-1 (1)

9198

DATA RECORD

T -9198

Project No. (II): Ph-36(48)B Quadrangle Name (IV):

Field Office (II): Brownsville, Texas Chief of Party: George E. Morris, Jr.

Photogrammetric Office (III): Baltimore, Md. Officer-in-Charge: Hubert A. Paton

Instructions dated (II) (III): 14 February 1949
Supplement No. 2 (field) 26 July 1949
Supplement No. 2 (field) 28 July 1949
Office compilation assignment 8 June 1949

Copy filed in Division of Photogrammetry (IV)

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): NOV 15 1950 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. 893 Date: 11-19-51 Date registered (IV): 4-7-53
894 11-16-51

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N. A. 1927 Vertical Datum (III): MHW

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): UNION 1939

Lat.: 27° 16' 03.594" 110.6 Long.: 97° 21' 26.150" 719.3 Adjusted ~~Unadjusted~~

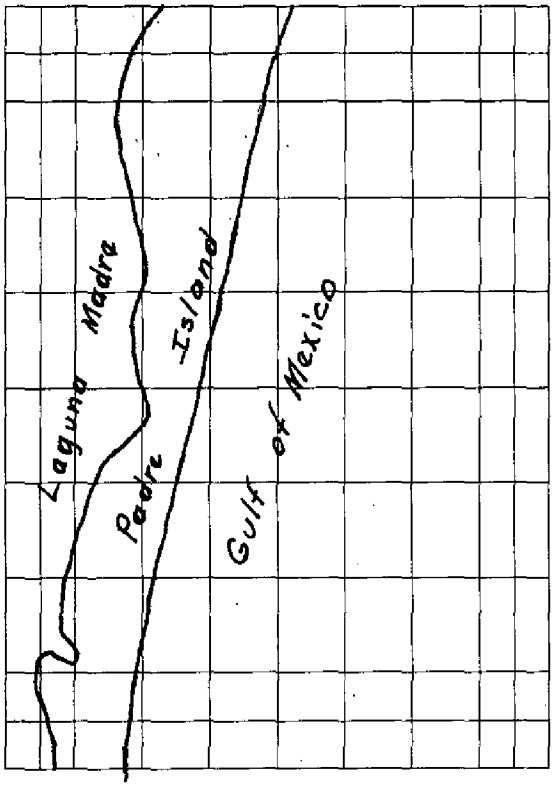
Plane Coordinates (IV): State: Texas Zone: South

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.

M-2618-12(4)



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

All contouring done by W. H. Nelson

DATA RECORD

Field Inspection by (II): J. H. Clark, W. H. Nelson — Date: April 1949, August & September 1949

Planetable contouring by (II): W. H. Nelson — Date: August & September 1949

Completion Surveys by (II): W. H. Shearouse — Date: 11-6-51

Mean High Water Location (III) (State date and method of location):
Same as date of field inspection

Projection and Grids ruled by (IV): WEW — Date: 10-19-49

Projection and Grids checked by (IV): HDW — Date: 10-21-49

Control plotted by (III): W. L. Lineweaver — Date: 12-29-49

Control checked by (III): F. J. Tarcza — Date: 12-30-49

Radial Plot ~~or Stereoscopic Control extension by (III)~~: F. J. Tarcza — Date: Jan. 1950

Stereoscopic Instrument compilation (III): Planimetry — Date:

Contours — Date:

Manuscript delineated by (III): W. L. Bloom — Date: Oct. 9, 1950

Photogrammetric Office Review by (III): M. F. Kirk — Date: 27 Oct. 1950

Elevations on Manuscript checked by (II) (III): M. F. Kirk — Date: 27 Oct. 1950

M-2618-12(4)

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
1178 thru 1181	12/8/48	1115	1:20,000	Negligible
1581 thru 1588	12/9/48	1130	1:20,000	negligible
1684 thru 1688	12/9/48	1145	1:20,000	negligible
6343 L thru 6345 L			1:20,000 (approx)	Negligible

Tide (III) Diurnal

Ratio of Ranges	Mean Range	Spring Range
1.0	1.0	1.4
1.1	1.1	1.5

Reference Station: Galveston, Texas.
Subordinate Station: Aransas Pass
Subordinate Station: The mean range of tide in Laguna Madre is less than ½ foot.

Washington Office Review by (IV): G.B. Willey Date: 5/9/52

Final Drafting by (IV): Date:

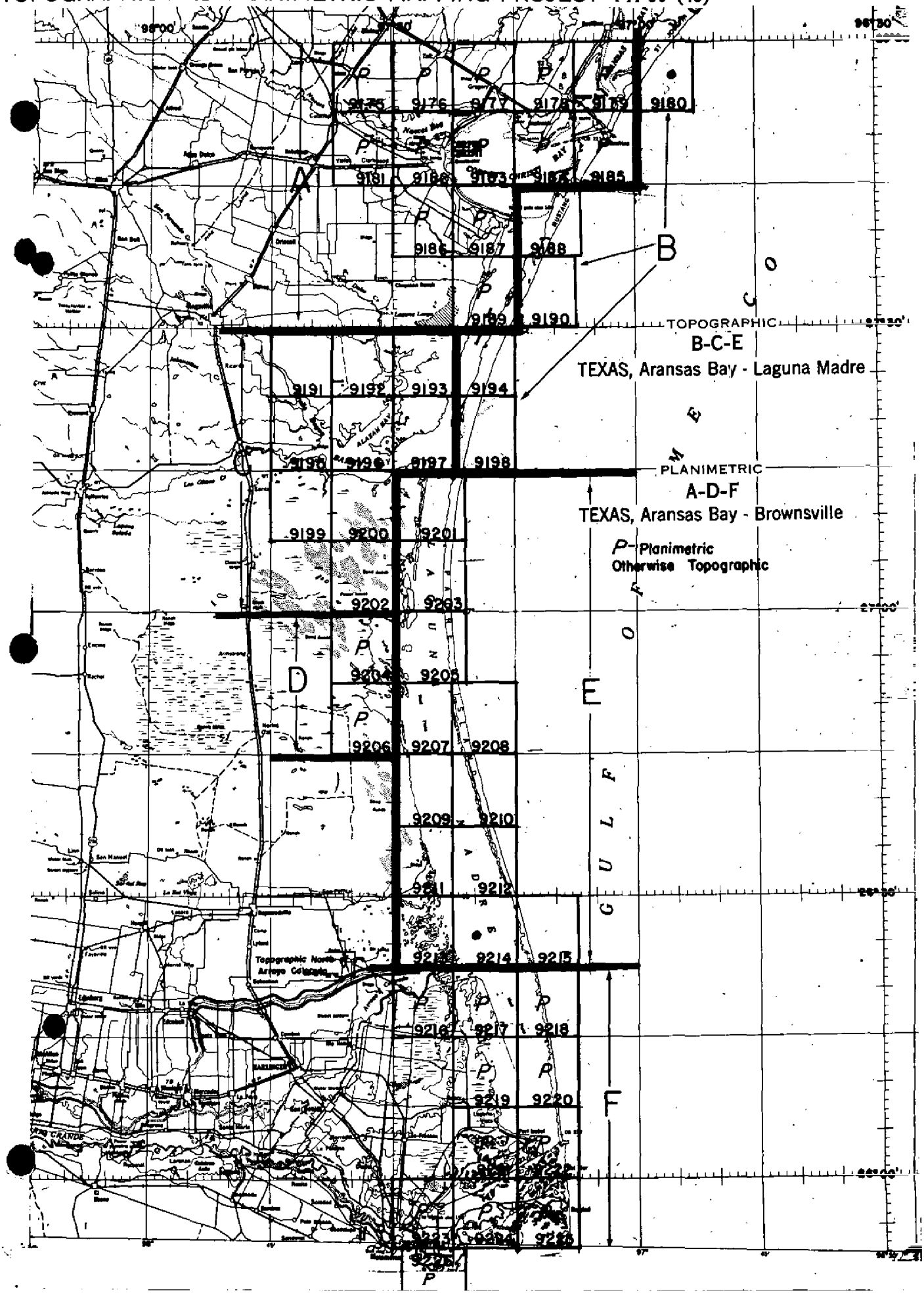
Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 13
Shoreline (More than 200 meters to opposite shore) (III): 22
Shoreline (Less than 200 meters to opposite shore) (III): 2
Control Leveling - Miles (II): 21.9
Number of Triangulation Stations searched for (II): 7 Recovered: 1 Identified: 1
Number of BMs searched for (II): 0 Recovered: 0 Identified: 0
Number of Recoverable Photo Stations established (III): 4
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

TOPOGRAPHIC AND PLANIMETRIC MAPPING PROJECT PH-36 (48)



Summary T-9198

Project Ph-36(48) 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 Brownsville and the Mexican border. Adjoining the project to the north is a series of shoreline surveys in Part IV of Project Ph-14(46).

Information concerning Ph-36(48) 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 1:24,000 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 seven, T-9175, T-9176, T-9177, T-9181, T-9189, T-9204, and T-9206, 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 1:24,000 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

The field inspection was done on photographs 48-0-1178 to 48-0-1181 inclusive, and photograph NA 47-6344-L, furnished by U. S. Navy. The field inspection is believed to be adequate and complete.

The photographs are adequate for the most part. The area along the Gulf beach is lacking in detail, making it difficult to differentiate the dunes from the flat beach. The Gulf side of the island has a series of dunes fairly well covered with grass; on the Laguna side of the Island the dunes are barren, shifting sand. The central portion is fairly flat and grass covered. There is a Navy bombing target along the north limit of the quadrangle. This target was built since the photographs for project Ph-36(48) were taken, therefore, more recent photographs, taken by the Navy, are submitted to show this feature.

The darker tones on the photographs are grass and the light gray tones are shifting sand. There are no trees, intermittent ponds, or marshes within the limits of this quadrangle. The grassy areas are more or less stable while the barren sand dunes are constantly changing. Comparison of the Navy photographs with the USC&GS photographs will show this change.

3. HORIZONTAL CONTROL

The following triangulation stations were reported lost on Form 526: LONE PITA, DOUBLE HIGHEST POINT, 1912; XMAS 1938; SPIRIT 1938; ALSO 1938; VALLEY 1939; LOST 1938.

Horizontal control was identified on photograph 48-0-1180.

4. VERTICAL CONTROL

There are no bench marks within the limits of this quadrangle. A closed loop of fly levels was run from a fly level point in quadrangle T-9194( ) to USE BM 132 on the west side of Laguna Madre.

Fly level points 98-01 through 98-17 were established.

Vertical control was identified on photographs 48-0-1178 to 48-0-1181 inclusive.

5. CONTOURS AND DRAINAGE

Contouring was done by a two man party, using planetable methods, on photographs 48-0-1178 to 48-0-1181 inclusive. Much of the area consists of shifting sand dunes and was not contoured, but high and low elevations are shown at about half-mile intervals.

The sand dunes are steep and on most of them, the highest contour is too small to be shown.

There is no definite drainage pattern.

6. WOODLAND COVER

All vegetation in this quadrangle is grass or low scattered brush and trees and should be shown as "open".

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line along the Gulf of Mexico is indicated on photographs 48-0-1581 to 48-0-1588 inclusive. The normal water line along Laguna Madre is to be indicated on photographs which are to be taken in January or February 1950.

There are no piers or landings within the limits of this quadrangle.

8. OFFSHORE FEATURES

There are no offshore features.

(Because of high water at the time of field inspection the mean low water line could not be accurately shown. In general, the mean low water line is approximately 5.0 meters offshore of the mean high water line and parallel to it.)

9. LANDMARKS AND AIDS

There are no landmarks in this quadrangle.

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

10. BOUNDARIES, MONUMENTS, AND LINES

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

11. OTHER CONTROL

Four recoverable topographic stations were set and identified on the photographs; they are as follows:

PUNT 1949	- Photograph	48-0-1180
QUIZ 1949	- "	48-0-1179
RUFF 1949	- "	48-0-1178
SUNK 1949	- "	48-0-1177

12. OTHER INTERIOR FEATURES

There is an abandoned corral, containing two buildings, near the north working limit of photograph 48-0-1181. There are two buildings within the fenced area and two buildings south of the fenced area indicated on photograph NA 47-6344-L.

13. GEOGRAPHIC NAMES on file 85Y

See "Special Report, Geographic Names, Project Ph-36(48), Aransas Bay to Baffin Bay".

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"Special Report, Location of Aids to Navigation, Latitude 28°00' to Baffin Bay, Project Ph-36(48)", forwarded to Washington 28 June 1949.

"Special Report, Boundaries, Baffin Bay to Latitude 28°00', Project Ph-36(48)", forwarded to Washington 11 July 1949.

"Special Report, Geographic Names, Aransas Bay to Baffin Bay, Project Ph-36(48)", forwarded to Washington 27 July 1949.

"Special Report, Identification and Delineation of Shoreline of the Laguna Madre, Project Ph-36(48)", to be submitted at a later date.

Letter of transmittal Ph-36 Field 43, Records, Quadrangle T-9198 ( ), forwarded to Baltimore 8 November 1949.

Submitted
4 November 1949

Wilber H. Nelson
WHN

Wilber H. Nelson
Cartographic Survey Aid

Approved
8 November 1949

George E. Morris, Jr.

George E. Morris, Jr.
Chief of Party

Photogrammetry

MAP T- 9198 PROJECT NO. Ph-36(48)B SCALE OF MAP 1:20,000 SCALE FACTOR None.

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
UNION, 1939	G4197 P.120	N.A. 1927	27 16 03.594 97 21 26.150			110.6 1736.1 719.3 931.1	
SUB.PT. UNION 1939			27 16 97 21			171.6 1675.1 640.6 1009.8	
* VALLEY, 1939	G.4197 P. 119	"	27 19 57.298 97 20 56.671			1763.6 (83.2) 1557.9 (91.5)	

*Station Valley, 1939 was ~~reported probably~~ lost by the topo party, but was recovered during the Field Edit.

Page 10

*C. B. Willey 30 April 1952 *K. N. Nold 4/30/52

1 FT. = .3048006 METER M-2388-12

COMPUTED BY: W.L.Lineweaver DATE 29 December 1949 CHECKED BY: F.J.Tarcza DATE 12/30/49

COMPILATION REPORT

T-9198

PHOTOGRAMMETRIC PLOT REPORT

Refer to the descriptive report of Survey T-9191.

31. DELINEATION

This survey was delineated by graphic methods.

32. CONTROL

Control of points in the southern half of this survey may be weak; see Photogrammetric Plot Report. Tie-in with plot to the south strengthened the control of this survey.

33. SUPPLEMENTAL DATA

Three Navy photographs of Target No. 2 were used to locate the details adjacent to same.

34. CONTOURS AND DRAINAGE

See par. 5 of Field Report

35. SHORELINE AND ALONGSHORE DETAILS

The June 1949 field inspection of the shoreline was used where possible. Where this conflicted with the field inspection on the 1950 photographs the latter was used.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS TO NAVIGATION

None.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 are being submitted for four recoverable topographic stations, QUIZ, 1949; RUFF, 1949; PUNT, 1949; & SUNK, 1949.

39. JUNCTIONS

Junction has been made with T-9194 to the north, T-9197 to the west, and T-9201 to the southwest and all are in agreement. To the east and south is all water area.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45.

No comment.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with Corps of Engr. quadrangle Point Penescal, scale 1:125,000, 1920 edition, reprinted 1928.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with USC&GS Chart No. 1286, scale 1:80,000, published 1942 (13th edition) corrected to 9 January 1950.

(a) No comment
(b) Items to be applied to nautical charts immediately: none
(c) Items to be carried forward: none
(d) No comment.

Respectfully submitted
27 October 1950

Mary L. Bloom
Mary L. Bloom

Approved and forwarded
November 1950

Hubert A. Paton
Hubert A. Paton
Comdr., C&GS
Officer in Charge

48. GEOGRAPHIC NAMES

✓ Big Ball Hill
✓ Boggy Slough
✓ Dagger Hill
✓ Green Hill
Gulf of Mexico
Kenedy County
Kleberg County
Laguna Madre
✓ Little Shell (a section of Gulf beach composed of small shells)
Padre Island
Intracoastal Waterway

Names underlined in red are approved. 5-10-51. L. Heck
Re-checked after Field Edit. 5-5-52. L.H.

49. NOTES FOR THE HYDROGRAPHER

(a) Photo Hydro Stations - None

Topographic Stations
Quiz, 1949
Ruff, 1949
Punt, 1949
Sunk, 1949

(b) No comment

(c) No comment

Field Edit Report, T-9198

51. Methods.--The Gulf beach was ridden by Jeep and truck and a visual inspection of the topographic features was made at the time. The area inland from the beach was travelled by Jeep to answer the questions raised by the Reviewer.

The planetable was used to locate all additions and corrections on the Field Edit Sheet.

Violet ink was used for additions and corrections and green for deletions.

Field edit information will be found on the Field Edit Sheet and contact print 48-0-1585.

52. Adequacy of compilation.--The quadrangle is well compiled and will be adequate after application of field edit information.

53. Map accuracy.--No accuracy checks were specified. From visual inspection and points used with the planetable, the accuracy appears good.

54. Recommendations.--None offered.

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

No discrepancies were noted in geographic names.

Respectfully submitted,
6 November 1951

William H. Shearouse

William H. Shearouse,
Cartographer

16\

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9198

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

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy McE&K 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) McE&K 7. ~~Photo hydro stations~~ _____ 8. Bench marks None
9. Plotting of sextant fixes None 10. Photogrammetric plot report McE&K 11. Detail points McE&K

ALONGSHORE AREAS
(Nautical Chart Data)

12. Shoreline McE&K 13. Low-water line McE&K 14. Rocks, shoals, etc. McE&K 15. Bridges None 16. Aids to navigation None 17. Landmarks None 18. Other alongshore physical features McE&K 19. Other alongshore cultural features _____

PHYSICAL FEATURES

20. Water features McE&K 21. Natural ground cover None 22. Planetable contours McE&K 23. ~~Stereoscopic instrument contours~~ _____ 24. Contours in general McE&K 25. Spot elevations McE&K 26. Other physical features None

CULTURAL FEATURES

27. Roads McE&K 28. Buildings McE&K 29. Railroads None 30. Other cultural features None

BOUNDARIES

31. Boundary lines McE&K 32. Public land lines None

MISCELLANEOUS

33. Geographic names McE&K 34. Junctions McE&K 35. Legibility of the manuscript McE&K 36. Discrepancy overlay None 37. Descriptive Report McE&K 38. Field inspection photographs McE&K 39. Forms McE&K
40. McE&K Reviewer — Joseph Steinberg 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-9198
Topographic Map
9 May 1952

62. Comparison with Registered Topographic Surveys:

T-1627	1:20,000	1881-82
T-1628	1:20,000	1881-82

T-9198 supersedes these surveys for nautical charting purposes.

For a discussion of the special treatment of shoreline interpretation and delineation by this survey as compared to the above surveys see Item 66 below.

63. Comparison with Maps of Other Agencies:

Point Penescal, Tex. (U.S.E.) 1:125,000 1909, Revised 1928.

No significant differences are to be noted.

64. Comparison with Contemporary Hydrographic Surveys:

H-9396	1:20,000	1938
H-9397	1:20,000	1938

These sheets cover the Gulf of Mexico shoreline. No discrepancies were noted.

65. Comparison with Nautical Charts:

Chart 1286 1:80,000 13 Edition (1942) 52 - 4/14.

See Item 66 below for a discussion of the special treatment of shoreline interpretation and delineation in the Laguna Madre.

66. Shoreline Interpretation and Delineation:

Water stages in the Laguna Madre vary widely with meteorological conditions. The high-water line has been omitted where it is indefinite and is not marked by visible evidence on the ground. The broken line indicates the approximate inshore limits of areas subject to inundation. The dotted line represents the approximate low-water line.

67. Adequacy of Manuscript:

This topographic map complies with Bureau standards, project instructions and with National Map Accuracy Standards.

Reviewed by:

Gordon B. Willey

Gordon B. Willey

Approved:

S. V. Griffith
Chief, Review Section
Division of Photogrammetry

H. M. Johnston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. Of Photogrammetry

Earl O. Heaton
Chief, Div. Of Coastal Surveys

History of Hydrographic Information
Quadrangle T-9198
Laguna Madre - Gulf of Mexico, Texas

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

Soundings and 6, 12, 18, and 30 and 60 foot depth curves at mean low water datum, originate with the following:

USC&GS Hydrographic Surveys

H-6396	(1938)	1:20,000
H-6397	(1938)	1:20,000
H-6403	(1938)	1:40,000

USC&GS Nautical Chart

894 1:40,000 aid proof May 1952
1286, 1:80,000, latest print date 4/14/52

USE Hydrographic Survey:

Intracoastal Waterway, Sheet 6, 1931-32 BP-31731

Hydrography compiled by K.N. Maki and verified by R. E. Elkins.

K. N. Maki
Div. of Photogrammetry
22 May 1952

NAUTICAL CHARTS BRANCH

SURVEY NO. 9198

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
16 Nov 61	894	H.E. MacEwen	Before ~~After~~ Verification and Review
11/9/51	893	J.G. McGann	Before ~~After~~ Verification and Review
8/7/91	11304	L. Adams	Before ~~After~~ Verification and Review
			Superceeded by BP143754 to 759
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.