

9207

"ORIGINAL" ✓

9207

Form 504 U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT	
Type of Survey	TOPOGRAPHIC
Field No.	Office No. T-9207
Project Ph-36(48)E	
LOCALITY	
State	TEXAS
General locality	LAGUNA MADRE
	<i>Rincon de San Jose</i>
Locality	LONG ISLAND
1952	
CHIEF OF PARTY	
George E. Morris, Jr., Chief of Party	
Hubert A. Paton, Condr., Balto. Photo. Office	
LIBRARY & ARCHIVES	
DATE	MAR 31 1955

DATA RECORD

T-9207

Project No. (II): **Ph-36(48)E** Quadrangle Name (IV): **Lopena Island, SW.**

Field Office (II): **Brownsville, Texas**

Chief of Party: **George E. Morris, Jr.**

Photogrammetric Office (III): **Baltimore, Md.**

Officer-in-Charge: **H. A. Paton**

Instructions dated (II) (III): **14 February 1949**

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):

Scale Factor (III):

Date received in Washington Office (IV): **FEB 19 1951**

Date reported to Nautical Chart Branch (IV): **MAR 6 - 1951**

Applied to Chart No. **895**
896

Date: **Dec. 1951**
Jan. 1952

Date registered (IV): **9-3-52**

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 (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): **SOUTHEAST, 1913**

Lat.: **26° 50' 58.688" (1806.2m)** Long.: **97° 28' 09.890" (273.0m)**

Adjusted
~~Unadjusted~~

Plane Coordinates (IV): **Lambert Grid**

State: **Texas**

Zone:

South

Y= **431,349.48**

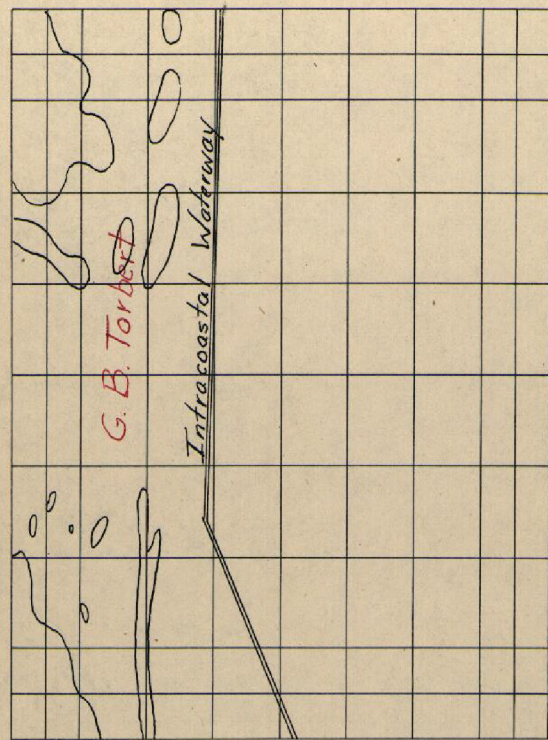
X= **2,336,012.28**

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.

27° 52' 30"

97° 30' 00"



27° 45' 00"

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

97° 22' 30"

DATA RECORD

Field Inspection by (II): **G. B. Torbert**

Date: **March 1950**

Planetable contouring by (II): **G. B. Torbert**

Date: **March & July 1950**

Completion Surveys by (II): *W. H. Shearouse*

Date: *Jan. 23, 1952*

Storm water line

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

May 1950-field inspection supplemented by office interpretation.

Projection and Grids ruled by (IV): **T.L.F.**

Date: 4-22-50

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

Date: 4-25-50

Control plotted by (III): **L. A. Senasack**

Date: 8-16-50

Control checked by (III): **F. J. Tarcza**

Date: 8-24-50

Radial Plot or Stereoscopic

Control extension by (III): **F. J. Tarcza**

Date: 9-13-50

Stereoscopic Instrument compilation (III):
Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): **E. L. Williams**

Date: 1-19-51

Photogrammetric Office Review by (III): **R. Glaser**

Date: 1-26-51

Elevations on Manuscript **R. Glaser**
checked by (II) (III):

Date: 1-26-51

Camera (kind or source) (III):

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
48-0-1249 -	12-8-48	1221	1:20,000	
48-0-1279 to 48-0-1281	12-8-48	1228-1230	1:20,000	Negligible Tide
25746 and 25747	5-4-50	1417-1418	1:20,000	<i>The mean range of tide is less than 1/2 foot.</i>
25785 and 25786	5-4-50	1517-1518	1:20,000	

Tide (III)

Reference Station: *The mean range of tide in*
 Subordinate Station: *this area is less than 1/2 foot*
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): *C. Hamrick*

Date: *3 June 1952*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

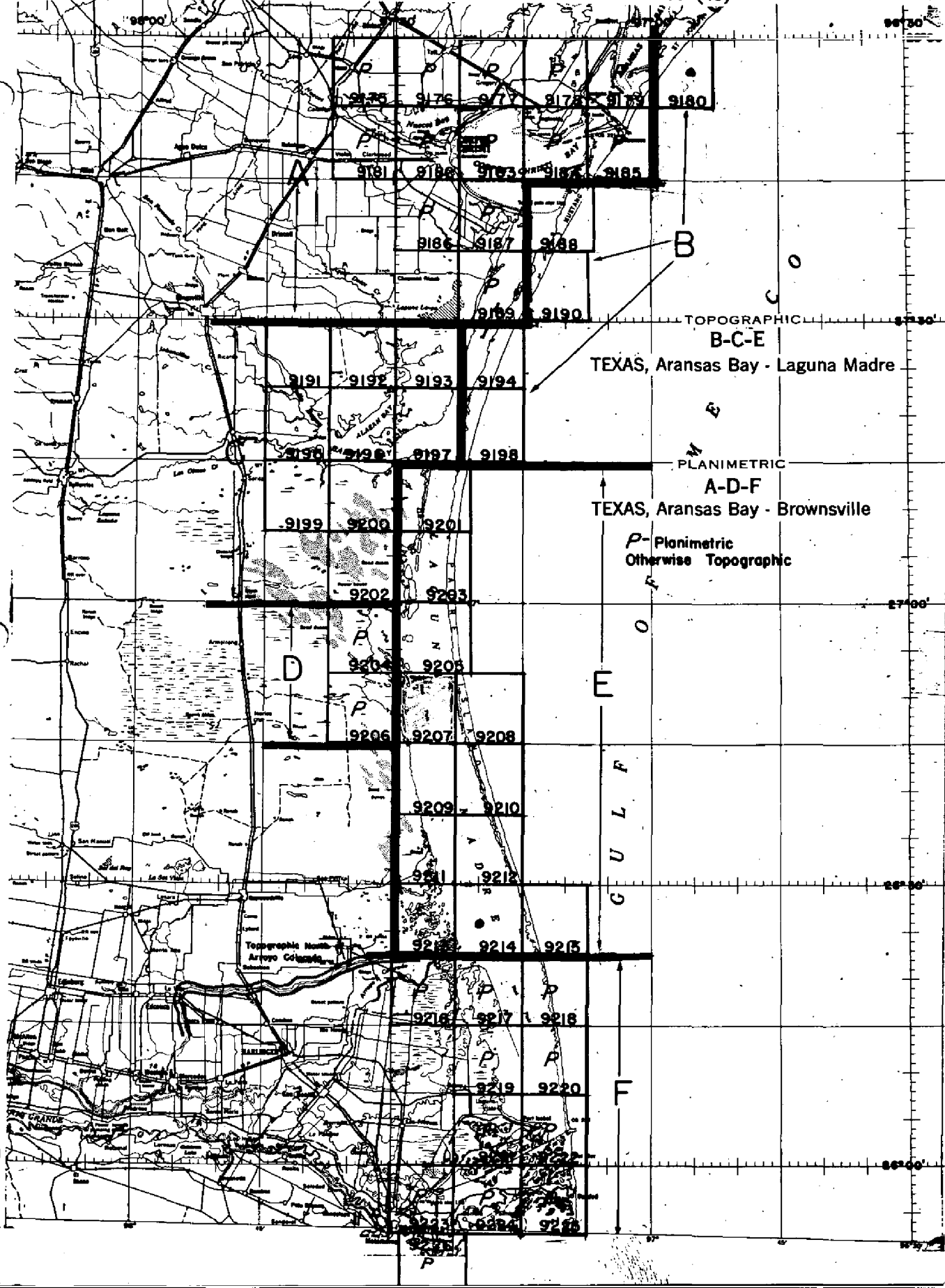
Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): *9 sq. mi.*
 Shoreline (More than 200 meters to opposite shore) (III): *39 mi*
 Shoreline (Less than 200 meters to opposite shore) (III): *4 m*
 Control Leveling - Miles (II):
 Number of Triangulation Stations searched for (II): *10* Recovered: *8* Identified: *4*
 Number of BMs searched for (II): *8* Recovered: *8* Identified: *8*
 Number of Recoverable Photo Stations established (III): *3*
 Number of Temporary Photo Hydro Stations established (III): *0*

Remarks:

TOPOGRAPHIC AND PLANIMETRIC MAPPING PROJECT PH-36 (48)



TOPOGRAPHIC
B-C-E
TEXAS, Aransas Bay - Laguna Madre

PLANIMETRIC
A-D-F
TEXAS, Aransas Bay - Brownsville

P - Planimetric
O - Otherwise Topographic

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2. AREAL FIELD INSPECTION

This quadrangle is located in Southern Texas along the Laguna Madre in Kenedy County. The northern area is referred to locally as "mud flats" while the southern area takes in part of the Norias Division of the King Ranch and Red Fish Bay. The "mud flats" is a low flat area of sand and mud with numerous potreros (grassy islands) cropping up in the "flats". The area to the south on the King Ranch is a series of sandy ridges which have no definite pattern.

The Intracoastal Waterway is cut through the middle of this quadrangle from north to south.

No difficulty was encountered in interpreting the photographs and the quality was adequate for field inspection. Three tones predominate in interpreting the photographs; white, gray (light and dark), and black. The white to light gray tones is mud and sand found in the "mud flats". The white may also be shifting sand dune formations found inland. The darker gray with mottled tone is the potreros found in the "mud flats" and on the mainland which form the sandy ridges of irregular patterns. The darker gray to black tones are small grassy, low areas between the ridges, and the isolated black tones are small scattered oak motts. The intermittent ponds vary considerable in tone from a very light gray to almost black depending on the formation on the bottom of the pond.

Field inspection was performed on single lens 1:20,000 scale ratio prints 48-0-1249 and 48-0-1281.

3. HORIZONTAL CONTROL

The following four fixed aids to navigation were located by third-order methods: CORPUS CHRISTI-PORT ISABEL LT 220; CORPUS CHRISTI-PORT ISABEL LT 224; CORPUS CHRISTI-PORT ISABEL LT 229; CORPUS CHRISTI-PORT ISABEL LT 234. (See "Special Report, Supplemental Third Order Control and Aids to Navigation, Project Ph-36(48), Baffin Bay to Arroyo Colorado.") These aids were constructed since photography and could not be identified.

Horizontal control was identified on single lens photographs 48-0-1278, 48-0-1893, 48-0-1945, and 48-0-1946.

4. VERTICAL CONTROL

There were ~~six~~^{eight} USE bench marks of third-order accuracy recovered in this quadrangle. They are ~~BM 203, BM 204, BM 205, BM 57, BM 59, and BM 61~~^{BM 201, BM 203, BM 204, BM 205, BM 57, BM 59, and BM 61} ^{SOUTHEAST}. A correction of -1.02 feet was used to bring the elevations of these bench marks to the NA 1929 datum. *For additional information on the determination of the datum correction refer to the Descriptive Report for T-9188, side heading 4.*

No additional levels were required for contour control.

The bench marks were identified on photographs 48-0-1249, 48-0-1943, 48-0-1945, and 48-0-1948.

5. CONTOURS AND DRAINAGE

Contouring was performed by standard planetable methods on single lens, 1:20,000 scale ratio prints 48-0-1249 and 48-0-1281.

Photographs were carefully examined under the stereoscope prior to field work and again prior to inking of the penciled contours.

Since date of single lens photography, the Intracoastal Waterway has been completed. The spoil banks created thereby were contoured on nine lens photographs Nos. 25748 and 25785.

A satisfactory junction was made with quadrangle T-9205() on the north, quadrangle T-9209() on the south, quadrangle T-9208() on the east, and along the west with Saltillo Ranch Quadrangle. *T-9206 (Planime- tric) was in the compilation stage; it adjoins this sheet to the west.*

There is no definite perennial drainage pattern. All drainage is of the run-off variety or seepage, the Intracoastal Waterway and Red Fish Bay.

6. WOODLAND COVER

The entire area is open except for a few scattered oak motts which have been delineated on the photographs.

7. SHORELINE AND ALONGSHORE FEATURES

See "Special Report, Identification and Delineation of the Shoreline of Laguna Madre, Project Ph-36(48)."

A small building, formerly housing a tide gage, has been delineated on the photographs.

8. OFFSHORE FEATURES

There were no offshore features. *An oil derrick was located by the field editor*

9. LANDMARKS AND AIDS

See "Special Report, Supplemental Third Order Control and Aids to Navigation, Project Ph-36(48), Baffin Bay to Arroyo Colorado." *Chart letter 465 (52)*

There are no landmarks for nautical charts.

10. BOUNDARIES, MONUMENTS, AND LINES

See "Special Report, Boundaries, Project Ph-36(48), Baffin Bay to the Rio Grande."

11. OTHER CONTROL

Three
Two topographic stations were established in this quadrangle, BM 59 USE and AZIMUTH MARK TOPO ECC. Photographs 48-0-1943 and 48-0-1945 were used. *Mesquite Az. M.K.*

12. OTHER INTERIOR FEATURES

All roads in the quadrangle are single lane sand trails used mainly by four-wheel drive vehicles in carrying on operation of the ranches. They are private and have been classified according to Photogrammetry Instructions No. 10, dated 14 April 1947, and Amendment dated 24 October 1947.

There are no buildings, bridges, cables, airports, or landing fields in this quadrangle.

Due to lack of cultural features, the fences and wells have been delineated and should be shown for landmark purposes.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-36(48), Baffin Bay to Port Mansfield (Red Fish Landing)."

One new well within the limits of the quadrangle has been named. This well was not shown on the "Map of Kenedy County, Texas, Showing The Location of Water Wells." The name was verified by Mr. Guadalupe Hernandez, a ranch employee for forty-one years.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"Special Report, Supplemental Third Order Control and Aids to Navigation, Project Ph-36(48), Baffin Bay to Arroyo Colorado", forwarded to Washington Office 13 March 1950.

"Special Report, Geographic Names, Project Ph-36(48), Baffin Bay to Port Mansfield (Red Fish Landing)", forwarded to Washington Office 6 December 1949.

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

"Special Report, Boundaries, Project Ph-36(48), Baffin Bay to the Rio Grande", forwarded to the Washington Office 8 June 1950.

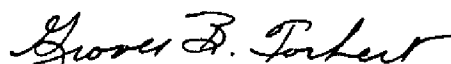
Data, original, Supplemental Third Order Control and Aids to Navigation, to Washington Office on letter of transmittal Ph-36 Field 56, dated 13 March 1950.

Data, duplicate, Supplemental Third Order Control and Aids to Navigation, to Baltimore Office on letter of transmittal Ph-36 Field 59, dated 27 March 1950.

Horizontal Control, Quadrangle T-9207(), forwarded to Baltimore Office 13 May 1950.

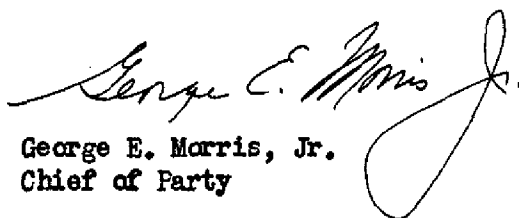
Data, Quadrangle T-9207(), letter of transmittal Ph-36 Field 73, forwarded to Baltimore Office 26 July 1950.

Submitted
19 July 1950



Grover B. Torbert
Cartographic Survey Aid

Approved
26 July 1950



George E. Marris, Jr.
Chief of Party

MAP T. 9207 PROJECT NO. Ph-36(48)E SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM CORRECTION		N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
					FORWARD	(BACK)	FORWARD	(BACK)	
CORPUS CHRISTI PORT ISABEL LT.	T.C. p.177	N.A. 1927	26 47 05.88 97 28 00.28				181.0	1665.6	
CORPUS CHRISTI PORT ISABEL LT. 234, 1949	"	"	26 46 04.77 97 27 49.83				146.8	1699.8	
CORPUS CHRISTI PORT ISABEL LT. 224, 1949	"	"	26 48 05.92 97 28 17.07				1376.7	281.0	
CORPUS CHRISTI PORT ISABEL LT. 220, 1949	"	"	26 51 01.275 97 27 58.250				39.2	1807.4	
TOPO ECC., 1939	G-4304 P.125	"	26 45 18.660 97 28 17.697				574.3	1272.3	
SUB. PT. TOPO ECC., 1939	"	"	26 45 97 28				501.4	1345.2	
SOUTHEAST, 1913	G-6538 P.145	"	26 50 58.688 97 28 09.890				456.0	1201.9	
SUB. PT. SOUTHEAST 1913	"	"	26 50 97 28				1806.2	40.4	
MOSQUITO 2, 1913	G-6538 P.144	"	26 48 13.133 97 29 30.297				273.0	1383.5	
SUB. PT. MOSQUITO 2, 1931	"	"	26 48 97 29				1701.4	145.2	
							257.6	1398.9	
							404.2	1442.4	
							836.8	820.4	
							472.6	1374.0	
							788.3	868.9	

COMPILATION REPORT

T-9207

31. DELINEATION

Delineation was by graphic methods.

32. CONTROL

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

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

The contours were adjusted in all cases where they were parallel to the storm water line. This was necessary because around almost all the numerous islands the storm water line was also the line of demarcation between the vegetation and the sand and mud flats. The contour fell on this line also. Slight adjustments were made of the contours because the storm water line inspection was made at a later date than the date of contouring. One exception to this is noted on the discrepancy overlay.

35. SHORELINE AND ALONGSHORE DETAILS

The field inspection on the 1950 nine-lens photographs was used in preference to the inspection on the 1948 photographs.

The low water line was based on field data.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

No landmarks are in this quadrangle. All aids to navigation were established as triangulation stations in 1949.

Form 567 will be submitted to the Washington Office with this report.

Chart Letter 465 (52)

38. CONTROL FOR FUTURE SURVEYS

Three forms number 524 are being submitted with this report to the Washington Office.

The recoverable topographic stations are listed in item No. 49.

39. JUNCTIONS

This manuscript joins with the indicated manuscripts:

To the north - T-9205
To the south - T-9209
To the west - T-9206
To the east - T-9208

Junctions have been made and are in agreement with the above manuscript.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

(1) This survey was compared with USGS quadrangle Lopena Island, Texas, scale 1:62,500, edition of 1923, reprinted 1946.

(2) Part of the manuscript was compared with the Contour Map Eastern Kenedy Ranch area by the Civil Engineering Division of the Humble Oil and Refining Company, scale 1"=2000 ft., dated 10 November 1949.

47. COMPARISON WITH NAUTICAL CHARTS

This manuscript was compared with Chart No. 1287, scale 1:80,000, published 10-17-49 and corrected to 3-20-50.

Items to be applied to nautical charts immediately:

None.


Items to be carried forward

None.

Respectfully submitted
19 January 1951


Elmer L. Williams

Approved and forwarded


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

48. GEOGRAPHIC NAME LIST

* COMMISSIONER PRECINCT 3

* COMMISSIONER PRECINCT 4

} precincts were not indicated; this is in accordance with USGS topographic instructions.

~~EAST FLATS~~ * (delete, per B. G. N., 10/51)

KENEDY COUNTY

LAGUNA MADRE

~~LONG ISLAND~~ *

Rincon de San Jose (B. G. N., 10/51)

MESQUITE RINCON

PADRE ISLAND

~~SOUTHEAST ISLAND~~ *

Southeast Point (B. G. N., 10/51)

VERRENDOS WELL

Intracoastal Waterway

Texas

* Names not on manuscript

King Ranch

Kennedy Ranch

Names underlined in red are approved.

6-27-51. L. Heck

6-2-52 a.g.w.

* name pending with B.G.N.

49. NOTES FOR THE HYDROGRAPHER

Photo Hydro Stations - None.

Topographic Stations:

BM 59 (U.S.E.), 1950

TOPO ECC AZ. MK., (1939), 1950

MESQUITE AZ. MK., (1939), 1950

58 -

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9207

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

- 27. Roads g 28. Buildings g 29. Railroads g 30. Other cultural features g

BOUNDARIES

- 31. Boundary lines g 32. Public land lines g

MISCELLANEOUS

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

40. Raymond Glasser Reviewer Joseph Steinberg Supervisor, Review Section of USIT

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:

Field Edit Report, T-9207

51. Methods.--The land area was travelled by Jeep to check the delineation of the storm water line and to answer other questions raised by the reviewer. The spoil banks along the Intracoastal Waterway were inspected by boat.

Additions, corrections and deletions were made on the Field Edit Sheet.

Additions and corrections are shown in violet ink and deletions in green.

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

53. Map accuracy.--No accuracy tests were specified. From visual inspection the accuracy appears good.

54. Recommendations.--None offered.

55. Examination of proof copy.--It is recommended a proof copy be sent to the King Ranch Office, attention Mr. Robert G. Wells, for examination of the King Ranch part. The address is Kingsville, Texas.

Also, a copy should be sent to Mr. Francis G. French for examination of the Kenedy Ranch part. His address is Sarita, Texas.

56. Precinct lines.--See item 56 of the Field Edit Report for quadrangle T-9206 for changes in Commissioner Precinct lines. A new Legal Description was forwarded with field edit data for quadrangle T-9211.

Precinct lines were not indicated; this is in accordance with USGS Topographic Instructions.

Respectfully submitted,
23 January 1952

William H. Shearouse
William H. Shearouse,
Cartographer

REVIEW REPORT
Topographic Map T-9207
3 June 1952

62. Comparison with Registered Topographic Surveys:

T-1676	(1879-81)	1:20,000
T-1677	(1879-81)	1:20,000

Changes have taken place in the vicinity of Padre Island, Mesquite Pincon, and Southeast Point. The Intracoastal Waterway has been constructed since the old surveys.

For nautical charting the new map (T-9207) supersedes the topographic surveys listed above.

63. Comparison with Maps of Other Agencies:

Lopena Island Quadrangle, Edition 1923, Reprint 1946, 1:62,500, USE

The Intracoastal Waterway does not appear on this map.

64. Comparison with Contemporary Hydrographic Surveys:

None.

65. Comparison with Nautical Charts:

Chart 1287	5 March 1951	1:80,000
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66. Adequacy of Results and Future Surveys:

This map complies with the project instructions and the National Map Accuracy Standards.

In the Laguna Madre area the stages vary widely with meteorological conditions. In view of this, it was decided to omit the high-water line where it is indefinite and unmarked by visible evidence on the ground, and in its stead to indicate by a broken line symbol the approximate limits of areas which were subject to inundation. This decision was arrived at mainly for these reasons:

1. The difficulty encountered in identifying the MHW line from the photographs of the Laguna Madre area and of other similar areas throughout the project.
2. It was considered impractical to resolve this problem by extensive leveling.

For a more detailed study and investigation of this subject, refer to the correspondence and various reports to be attached to the completion report which will be submitted when the review of the surveys on this project has been completed.

The reasons and the decision reached in adopting the special treatment accorded to the shoreline delineation are discussed in the pages of correspondence and instructions attached to the Descriptive Report for T-9214.

67. Supplemental Data:

Channel reference line piles along a portion of the east side of the Intracoastal Waterway were added to the map manuscript in accordance with the data submitted by the field editor. For additional clarifying information on this subject refer to the Review Report for T-9211.

Reviewed by:

Charles Hanavich
Charles Hanavich

Approved:

L. C. Land 27 Dec 1954
Chief, Review Section
Division of Photogrammetry

J. W. Edmonson
Chief, Nautical Chart Branch
Division of Charts

Wesley S. Kicketts
Chief, Div. of Photogrammetry

Carl O. Henton B
Chief, Div. of Coastal Surveys

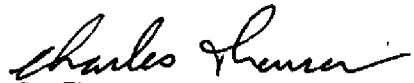
HYDROGRAPHIC INFORMATION
QUADRANGLE T-9207

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

Depths in feet, mean low water datum, originate with the following source:

USC&GS Nautical Charts 895 & 896, 1:40,000 1952

Hydrography was checked by CBS 8/7/52 after compilation by


C. Theurer
Division of Photogrammetry
16 June 1952

NAUTICAL CHARTS BRANCH

SURVEY NO. T 9207

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
17 Dec 51	895	H. MacSwan	Before After Verification and Review
1/5/52	896	J. G. McLean	Before After Verification and Review
8/7/91	11304	L. Ankman	Before After Verification and Review
			Superseded by BP143754-759
			Before After Verification and Review
			Before After Verification and Review
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			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.