

9196

Diag. Cht. No. 1286-2

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-36(L8)C Office No. T-9196

LOCALITY

State TEXAS

General locality KLEBERG COUNTY

Locality ALAZAN BAY

1945

CHIEF OF PARTY

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

H.A. Paton, Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE Sept 25-1953

B-1870-1 (1)

9196

DATA RECORD

T - 9196

Project No. (II): Ph-36(48)C Quadrangle Name (IV): *Riviera Beach, SE*

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*
8 June 1949
26 July 1949
28 July 1949
24 Feb. 1950

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): *none*

Date received in Washington Office (IV): *10-26-50* Date reported to Nautical Chart Branch (IV): *10-29-50*

Applied to Chart No. *894* Date: *Nov 1951* Date registered (IV): *9-2-52*

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): *N. A. 1927*

Vertical Datum (III): *MSL*

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): *AGUA, 1912*

Lat.: *27° 19' 36.312" (1117.6m)* Long.: *97° 33' 54.647" (1502.3m)* Adjusted
~~Quadrangle~~

Plane Coordinates (IV):

State: *Texas*

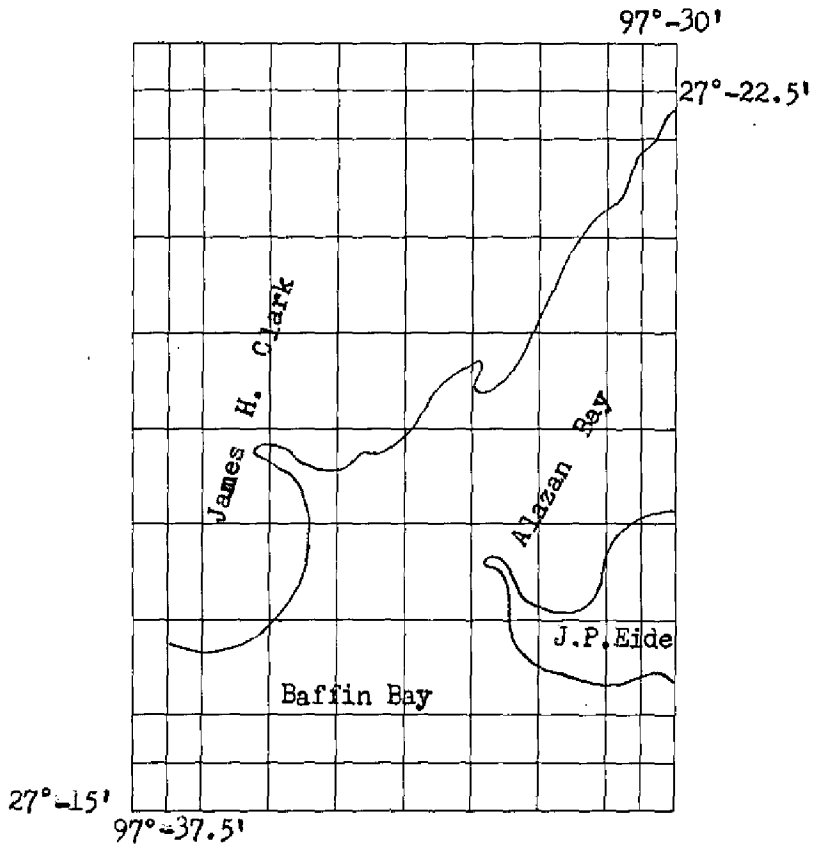
Zone: *South*

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.



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

DATA RECORD

Field Inspection by (I): J. P. Eide
 J. H. Clark
 I. Y. Fitzgerald

Date: 25 July to 4 Aug.
 25 Aug. to 10 Nov.
 15 Sept. to 26 Sept.
 1949

Planetable contouring by (II):

Date:

J. P. Eide
 J. H. Clark

25 July to 4 Aug. }
 25 Aug. to 10 Nov. }
 1949

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

Date: November 1951

Mean High Water Location (III) (State date and method of location): 12-10-48 (date of photographs)
 Supplemented by planetable surveys from June to November 1949

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): F. J. Tarcza

Date: 1-3-50

Control checked by (III): W. L. Lineweaver

Date: 1-3-50

Radial Plot ~~by Stereoscopic~~
~~Control extension~~ by (III): F. J. Tarcza

Date: 1-18-50

Planimetry
 Stereoscopic Instrument compilation (III):
 Contours

Date:

Date:

Manuscript delineated by (III): M. L. Bloom

Date: 9-25-50

Photogrammetric Office Review by (III): R. Glaser

Date: 10-24-50

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

Date: 10-24-50

Camera (kind or source) (III): USC&GS Type O Single lens focal length 6"

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
48-0-1352 to 48-0-1355 incl.	12-8-48	1308		1:20,000	no periodic tide
48-0-1696 to 48-0-1698 incl.	12-9-48	1207		1:20,000	"
48-0-1398 to 48-0-1401 "	12-8-48	1405		"	"
48-0-1696 to 48-0-1698 "	12-9-48	1207		"	"
48-0-1700 and 48-0-1701 "	12-9-48	1208		"	"

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): *G.B. Willey*

Date: *May 1952*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): *25*

Shoreline (More than 200 meters to opposite shore) (III): *29 statute miles*

Shoreline (Less than 200 meters to opposite shore) (III): *0.9 statute mile*

Control Leveling - Miles (II): *17.1*

Number of Triangulation Stations searched for (II): *2* Recovered: *2* Identified: *2*

* Number of BMs searched for (II): *11* Recovered: *11* Identified: *11*

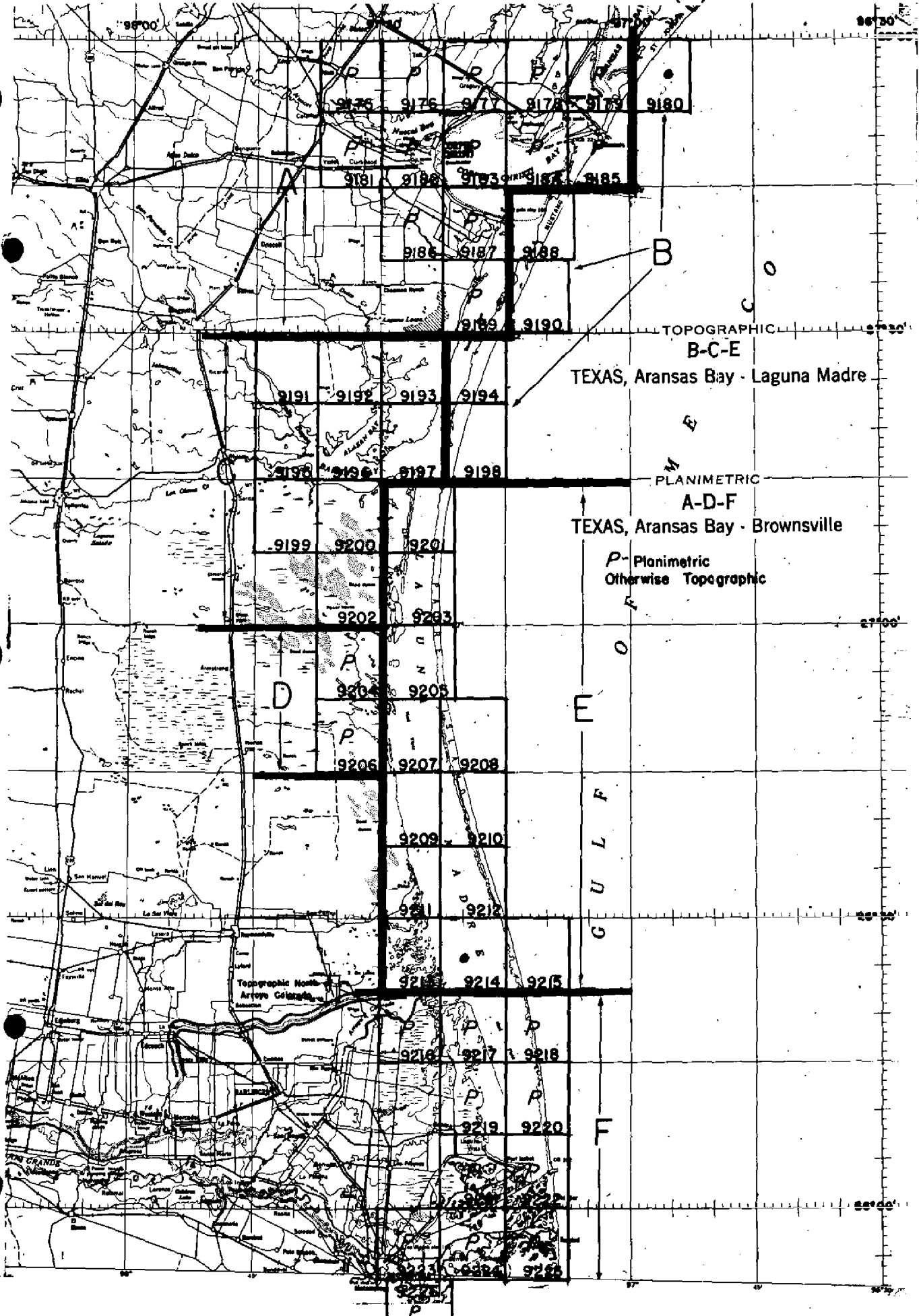
Number of Recoverable Photo Stations established (III): *6*

Number of Temporary Photo Hydro Stations established (III): *none*

Remarks:

* *Humble Oil & Refining Company bench marks*

TOPOGRAPHIC AND PLANIMETRIC MAPPING PROJECT PH-36 (48)



Summary R- ~~9.1966~~

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

This quadrangle lies along the south side of Kleberg County, on the north side of Baffin Bay, and embraces most of Alazan Bay. Approximately half of the quadrangle is composed of land area.

Cultural features in the area consist of one windmill, four artesian wells, and a few trails. The land is used entirely for the grazing of cattle, as a portion of the Laureles Division of the King Ranch.

Photography of the area is good, showing the variations in vegetation quite clearly. The lower, heavily grassed areas, although showing dark, have a smooth texture, easily distinguished from the rougher appearance of scrub growth and cactus. It is quite evident that, away from the shoreline, the higher areas, particularly those above the fifteen foot contour, are more conducive to the growth of mesquite scrub. The high ridges found in the extreme northwest portion of the area bear out, rather than refute, the above statement since those areas were once covered with scrub and subsequently cleared, prior to photography. In some cases there is no distinguishable difference in tone between intermittent and permanent ponds, therefore, all ponds in the quadrangle have been classified. These ponds were observed in both relatively wet and dry seasons.

Field inspection was performed on the following six photographs: 48-0-1353 to 48-0-1355 inclusive, and 48-0-1398 to 48-0-1400 inclusive.

3. HORIZONTAL CONTROL

The two USC&GS triangulation stations, AGUA 1912 and RABBIT 2 1912, were recovered and identified.

Horizontal control is identified on photographs 48-0-1696 and 48-0-1399.

4. VERTICAL CONTROL

The only bench marks in the quadrangle are second-order bench marks recently established by the Humble Oil & Refining Company. The following eleven recoverable bench marks are shown on the contour photographs: L-16, L-19, L-20, L-21, L-22, L-23, L-24, L-26, L-27, L-28 and L-36. The elevations of these bench marks were established on the datum of MSL 1929. Photostatic copies of the Humble Oil & Refining Company field notes establishing these bench marks were submitted to the Division of Geodesy on 19 October 1949.

Because of the geographical locations of the above bench marks, relatively few temporary level lines were found necessary. Fly level points 96-01 to 96-17 inclusive, were established. The greatest closure encountered was 0.37 ft. All adjustments were prorated throughout the lines.

Vertical control is identified on photographs 48-0-1353 to 48-0-1355 inclusive, and 48-0-1398 to 48-0-1400 inclusive.

5. CONTOURS AND DRAINAGE

All contouring was accomplished on the following six ratio prints: 48-0-1353 to 48-0-1355 inclusive, and 48-0-1398 to 48-0-1400 inclusive. Photographs were examined under the field stereoscope prior to field contouring, and again before inking of the penciled contours. No large closures were encountered in planetable traverse.

The area is relatively flat, and drains gradually southward, generally, into Alazan Bay and Baffin Bay. For the most part, the contours merely serve to delineate the numerous small hills in the area.

A vertical accuracy check run as a check on the topographer has been indicated in violet ink and required additions to the contours also indicated in violet ink.

Satisfactory contour junctions were made with adjoining quadrangles T-9195() on the west, T-9192() on the north, and T-9197() on the east.

6. WOODLAND COVER

Woodland cover consists, primarily, of scrub growths of mesquite found on the numerous small hills in the area. In the northwest portion of the area, which had been cleared, a few individual trees were found left on hill tops. Although these trees show up very well on the photographs, they are not considered of sufficient density or area to be shown. Because the mesquite growth gradually becomes dense enough to be considered scrub, the scrub areas have been outlined with symbols in red ink.

7. SHORELINE AND ALONGSHORE FEATURES

~~There is no periodic tide in this area.~~
The mean range of tide is less than 1/2 foot

Due to excessive wind action in Baffin Bay and in Alazan Bay, the mean water line in this area is very indefinite. The exact elevation of the mean water line of Baffin Bay and Alazan Bay is not known. Tide gage information from a private source will be made available early in 1950.

See Review Report P66

See "Special Report on the Identification and Delineation of Shoreline in the Laguna Madre, Project Ph-36(48)" to be submitted at a later date. In areas of this questionable shoreline the mean water line was located by planetable at 0.4 ft. elevations, and the elevations inked along the delineated MWL. This 0.4 ft. elevation was selected after a thorough investigation of the area, and considerable discussion with oil company officials and local inhabitants interested in the elevation of the mean water line. If the Special Report furnishes a different elevation of the mean water line, it will be necessary to relocate it in all indefinite areas. In both definite and indefinite areas, the mean water line is shown in red ink.

The storm water line has been delineated in blue ink on the photographs.

The mean water line is shown on the following nine photographs: 48-0-1353 to 48-0-1355 inclusive, 48-0-1399 and 48-0-1400, 48-0-1696 to 48-0-1698 inclusive, and 48-0-1701. In addition, a little storm water line is shown on photograph 48-0-1398.

There are no shoreline structures in the area.

8. OFFSHORE FEATURES

There were no offshore features to be investigated by the field inspector.

9. LANDMARKS AND AIDS

There are no landmarks in the area.

10. BOUNDARIES, MONUMENTS, AND LINES

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

11. OTHER CONTROL

Six topographic stations were established. They were identified as follows:

AZ MK AGUA 1912	-	Photograph	48-0-1355
HARE	-	"	48-0-1354
KING	-	"	48-0-1399
S 567-2	-	"	48-0-1698
S 567-9	-	"	48-0-1354
WELL	-	"	48-0-1701

12. OTHER INTERIOR FEATURES

Roads were classified in accordance with Photogrammetry Instructions No. 21 dated 14 April 1947, as amended 24 October 1947. All roads in the area are Class 7, and are private. Wherever these field roads do not show clearly on the photographs, they have been delineated on the photographs in red ink.

13. GEOGRAPHIC NAMES

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

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA


"Special Report, Boundaries, Baffin Bay to Latitude 28⁰⁰' , 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.

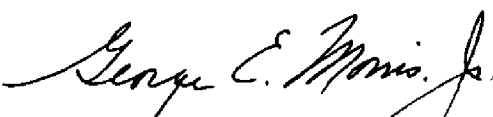
"Special Report, on the Identification and Delineation of Shoreline in Laguna Madre, Project Ph-36(48)", to be submitted to Washington at a later date.

Records, Quadrangle T-9196(), to Baltimore 6 December 1949 by letter of transmittal Ph-36 Field 46 .

Submitted
28 November 1949


James H. Clark
Cartographic Survey Aid

Approved
6 December 1949


George E. Morris, Jr.
Chief of Party

MAP T. 9196 PROJECT NO. Ph-36(48)G SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
AGUA, 1912	G-4197 P.120	N.A. 1927	27	19	36.312			1117.6	729.1		
			97	33	54.647			1502.3	147.2		
SUB.PT. AGUA, 1912			27	19				820.1	1026.6		
			97	33				1549.9	99.6		
RABBIT 2, 1912	G-4197 P.121	N.A. 1927	27	18	06.102			187.8	1658.9		
			97	30	34.639			952.5	697.4		
SUB.PT.RABBIT 2, 1912			27	18				161.3	1685.4		
			97	30				878.5	771.4		

COMPILATION REPORT
T - 9196

PHOTOGRAMMETRIC PLOT REPORT

This is one of 8 sheets being submitted in Project Ph-36(48)C.

For radial plot report see descriptive report of T-9191.

31. DELINEATION

Delineation was by graphic methods. A discrepancy overlay is being submitted with this manuscript.

Field inspection and photo coverage were adequate.

Refer also to item 7 of the field inspection report.

32. CONTROL

The identification and density of horizontal control were adequate.

33. SUPPLEMENTAL DATA

Boundary sheet (Kleberg Co.) No.2.

Geographic names standard Nos. 2&9, dated 11-4-49

Nos. 2 & 9,

Windmill List (photostat)

Wye Leveling Record for T-9196 (one vol.)

34. CONTOURS AND DRAINAGE

No particular difficulties were encountered in contouring, but occasionally a spot elevation was found which seemed to indicate that a contour was omitted. It is believed that these contours were omitted because they were too small to delineate. These elevations were shown on the manuscript.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate and complete. Identification and delineation of shoreline in this area will be the subject of a special report to be submitted by the field party at a later date. (Also see field report for T-9195.

No shoal lines were delineated on the manuscript. Low water and storm water lines were delineated according to field inspection of these features.
See Review Report #66

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS TO NAVIGATION

None.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 are being submitted for six recoverable topographic stations. These stations are listed under item 49.

39. JUNCTIONS

Satisfactory junctions were made -
To the west with T-9195
To the north with T-9192 and
To the east with T-9197

The junction to the south with T-9200 is in an all water area.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the Corps of Engineers, U. S. Army Sarita quadrangle, scale 1:125,000, edition of 1920, revised in 1928.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart No. 1286, scale 1:80,000, published 8-1-49 and corrected to 12-12-49. Only the eastern portion of this survey appears on the chart.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
25 October 1950
Mary L. Bloom
Mary L. Bloom
Cartographic Aid

Approved and forwarded
^{November 1950}
Hubert A. Paton
Hubert A. Paton
Comdr., C&GS
Officer in Charge

48. GEOGRAPHIC NAMES LIST

The following names are from geographic names standards No. 2 and 9:

- ✓ Aceitera ^{Artesian} Flowing Well
- ✓ Alazan Bay
- ✓ Baffin Bay
- Camiseta ^{Artesian} Flowing Well
- ✓ Cayo del Infiernillo (recent B.F.N. decision)
- ✓ Comitas Lake
- Commissioner Precinct 4
- Kenedy County
- King Ranch
- Kleberg County
- Kleberg Pt.
- ✓ Niggerhead Pt.
- ✓ Starvation Pt

The following names were submitted by the field party:

- ✓ Aceitera Artesian Well (Aceitero Flowing Well) - See above
- Gamistera Artesian Well (Camiseta Flowing Well) - " "
- Infiernillo Artesian Well (Infiernillo Artesian Well)
- ✓ Tiburcio Artesian Well
- Viboras Windmill

Names underlined in
red are approved.

5-1-51.

L. Heck

49. NOTES FOR THE HYDROGRAPHER

The following is a list of recoverable topographic stations shown on the manuscript:

S-567-2, 1949
AGUA 1912 AZ. MK. 1939, 1949
S - 567-9, 1949
HARE, 1949
KING, 1949
WELL, 1949

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9196

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

- 31. Boundary lines h
- 32. Public land lines _____

MISCELLANEOUS

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

Field Edit Report, T-9196

51. Methods.--All roads were travelled by truck to check their classification and to answer questions raised by the reviewer. At the same time all natural and cultural features were compared with the compilation.

Deletions, additions and corrections were made on the Field Edit Sheets. The Field Edit Sheets are numbered No. 1 and No. 2.

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

52. Adequacy of compilation.--After application of field edit information the compilation will be adequate.

53. Map accuracy.--A vertical accuracy test was run in the northeast sector of the quadrangle at latitude 27 degrees 22 minutes, longitude 97 degrees 33 minutes. It began horizontally at Agua Az. Mark, 1939 and closed at the same mark. Vertically it began and ended at fly level point No. 9608. The horizontal error of closure was 20 feet long; the vertical 0.4 foot high. No adjustments were made.

The results are as follows:

30 points tested.

29 points were found within $\frac{1}{2}$ contour interval.

1 point was in error more than a half contour interval.

No points were found in error more than a contour interval.

97% of all points tested were within the allowable limits of standard mapping accuracy.

Contours throughout the quadrangle were visually inspected and the pattern appears very good.

54. Recommendations.--No recommendations are offered.

55.--Examination of proof copy.--It is recommended that the proof copy of the map be sent to the King Ranch Office, Kingsville, Texas, attention Mr. Robert C. Wells, for examination.

Geographic names.--Geographic names were discussed with the King Ranch foreman and no discrepancies were noted.

Respectfully submitted,
29 November 1951

William H. Shearouse
William H. Shearouse,
Cartographer

Approved
3 Dec 1951
Percy L. Bernstein
Percy L. Bernstein

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
PHOTOGRAMMETRIC PARTY NO. 2

POST-OFFICE ADDRESS: P. O. Box 216
Raymondville, Texas

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

29 November 1951

To: The Director
U. S. Coast and Geodetic Survey
Washington 25, D. C.

Subject: Vertical Accuracy Test, Quadrangle T-9196,
Project Ph36(48)

A vertical accuracy test of approximately 2.5 miles length has been run in quadrangle T-9196, in the vicinity of latitude 27 degrees 22 minutes, longitude 97 degrees 33 minutes, with the following results.

30 points tested.
29 points were within one-half contour interval.
1 point was in error more than a half contour interval.
No points were found in error more than a contour interval.
97% of all points tested were within the allowable limits of standard mapping accuracy.

Points of origin and closure were:

Vertically at fly-level point No. 9608.
Horizontally at Agua Az. Mark, 1939.
Vertical error of closure was 0.4 ft. high.
Horizontal error of closure was 20 feet long.
No adjustments were made. Minor reshaping of contours was done on the Field Edit Sheet.

Respectfully submitted,

William H. Shearouse
William H. Shearouse,
Cartographer

Approved
3 Dec. 1951
Percy L. Bernstein
Percy L. Bernstein

REVIEW REPORT T-9196
Topographic Map
16 May 1952

62. Comparison with Registered Topographic Surveys:

T-1627	1:20,000	1881-82
T-1624	1:20,000	1881

T-9196 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.

Minor shoreline erosion is in evidence from a comparison with these surveys.

63. Comparison with Maps of Other Agencies:

Sanita, Texas (U.S.E.) 1:125,000 1909, Revised 1928.

No significant differences are to be noted.

64. Comparison with Contemporary Hydrographic Surveys:

None.

65. Comparison with Nautical Charts:

Chart 1286	1:80,000	13 Edition (1942)	52 - 4/14
Chart 1117	1:460,732	5 Edition (1941)	52 - 1/17

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

66. Shoreline Interpretation and delineation: Water stages in this area 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. See Review Report T9180 #66

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 *B*
Division of Photogrammetry

A. E. Edmiston
Chief, Nautical Chart Branch
Division of Charts *CR*

R. W. Swanson
Chief, Div. of Photogrammetry

Acting

Carl O. Henton
Chief, Div. of Coastal Survey *CR*

NAUTICAL CHARTS BRANCH

SURVEY NO. 9196

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
15/7/00'SI	894	H. MacEwen	Before After Verification and Review
8/7/91	11304	L. Chisman	Before After Verification and Review
			SS. by BP143754, - 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
			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
			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.