

9206

Diag. Cht. No. 1287

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. Ph-36(48)D Office No. T-9206

LOCALITY

State TEXAS

General locality LAGUNA MADRE

Locality KENEDY-KING RANCHES

194

CHIEF OF PARTY

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

H.A. Paton, Baltimore Photogrammetric Office.

LIBRARY & ARCHIVES

DATE Oct 12 - 1953

B-1870-1 (1)

9206

DATA RECORD

T -9206

Project No. (II): Ph-36(48)D

Quadrangle Name (IV):

Los Amigos Well

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

26 Aug. 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): 1.000

Date received in Washington Office (IV): 2-21-51

Date reported to Nautical Chart Branch (IV): 2-28-51

Applied to Chart No.

895

Date:

12-17-51

Date registered (IV):

7-30-53

896

1-5-52

Publication Scale (IV):

1:20 000

Publication date (IV):

1953

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): ENCINO, 1949

Lat.: 26° 49' 58.626" (1804.3m)

Long.: 97° 34' 00.904" (25.0m)

Adjusted

~~Unadjusted~~

Plane Coordinates (IV):

State: Texas

Zone: South

Y=

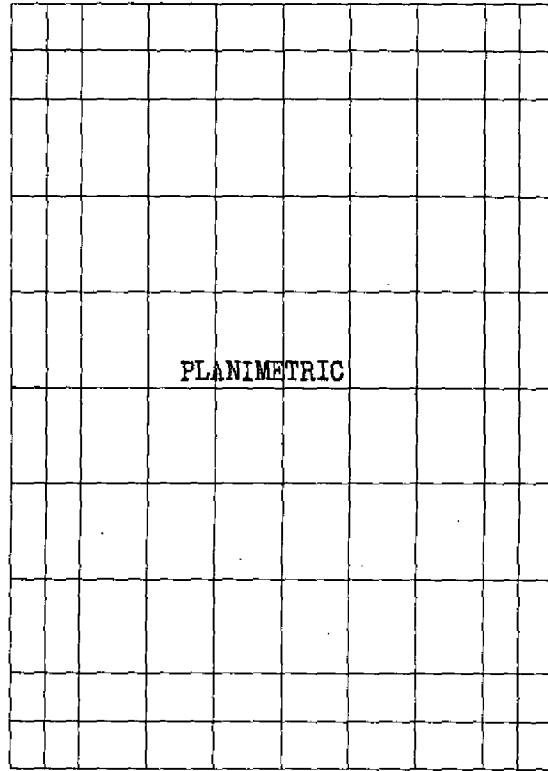
X=

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.

26° 52' 30"

97° 37' 30"



PLANIMETRIC

26° 4⁵' 00"

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

97° 30' 00"

DATA RECORD

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

Date: April 1950

Planetable contouring by (II): None

Date:

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

Date: 11 Jan. 1952

Mean High Water Location (III) (State date and method of location): Dec. 1948 - Office Interpretation

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

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: 8-23-50

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): H. R. Moore

Date: 2-9-51

Photogrammetric Office Review by (III): R. Glaser

Date: 2-16-51

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

Date: 2-16-51

Camera (kind or source) (III): U.S.C. & G.S. Single lens, type "0" camera - focal length 6"

Number		Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
48-0-1337 to 48-0-1340 incl		12-8-48	1302	1:20,000	No periodic tide
48-0-1413 to 48-0-1415 incl		12-8-48	1416	1:20,000	<i>The mean range of tide is less than 1/2 Foot.</i>
48-0-1927		12-9-48	1432	1:20,000	

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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

Date: *17 June 1952*

Final Drafting by (IV): *E.L. Deuster (asa Shoreline drawing)
Sylvia Dean (As a Planimetric)*

Date: *9-10-52
2-27-53*

Drafting verified for reproduction by (IV): *Wm. Halluin*

Date: *3-18-53*

Proof Edit by (IV): *W. Strafler*

Date: *4/23 53*

Land Area (Sq. Statute Miles) (III): *44*

Shoreline (More than 200 meters to opposite shore) (III): *16*

Shoreline (Less than 200 meters to opposite shore) (III): *13*

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): *12* Recovered: *11* Identified: *10*

Number of BMs searched for (II): *17* Recovered: *17* Identified: *17**

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

Number of Temporary Photo Hydro Stations established (III):

Remarks:

* This count does not include BM 36(USE) which was listed with T-9204 but falls on this sheet, or BM 50+19 (H O & R Co.) and BM JEEP (H O & R Co.)

** Includes ENCINO AZ. MK. 1949 - Form 524 for this station originates at the compilation office.

2. AREAL FIELD INSPECTION

This planimetric quadrangle is located in southern Texas, along the western side of Laguna Madre. The area is all land with the exception of a ~~very~~ small area in the southeast ^{North} corner, which is a part of the western side of Laguna Madre. All of the quadrangle is a part of the Kenedy and King Ranches and is used entirely for cattle grazing. The eastern section is a series of sand dune formations which are very irregular in shape and size. These dunes are covered by a growth of grass and an occasional isolated clump of live oak trees. Numerous intermittent ponds are found between the sand dune formations. The southwestern section is covered by a thick growth of live oak and mesquite.

The northeastern corner and a strip along the extreme eastern side is an area referred to locally as the "mud flats". This is a low, flat area of sand and mud with numerous potreros, or grassy islands, cropping up in the "flats". This section is usually wet and somewhat boggy, except in dry weather. Then it is possible to drive in the area with four-wheel drive vehicles.

Scattered throughout are sizable areas of shifting sand. The sand is bare and gradually shifts in position, depending on the direction of the prevailing winds.

Field inspection was done on 1:20,000 scale single lens ratio prints and is believed to be adequate and complete. The following photographs were used for field inspection: 48-0-1337 to 48-0-1340 inclusive and 48-0-1413 to 48-0-1416 inclusive.

The photography for this project was of fairly recent date and no great difficulty was encountered in interpreting the photographs.

Three tones predominate throughout. They are white, grey, and black. Along the eastern side the white to greyish tone is bleached sand and mud. The dark areas are numerous grass covered potreros, which are several feet higher than the surrounding area. Along the central and western sections tones vary somewhat from the eastern section. The white tones here are areas of shifting sand, in addition to the low sand and mud mentioned previously. The grey tones are the higher and more sparsely grassed ridges. The black tones are low heavily grassed areas, which hold water in rainy seasons. The heavy growths of live oak also photographs black.

The classification "Intermittent Pond" varies considerably in tone change from one photograph to the other and even on the same photograph. This is accounted for by the difference in the growth of grass along the floor of the ponds. Sparse or no grass photographs grey to white, while the heavily grassed and black soil photographs black.

3. HORIZONTAL CONTROL

At the beginning of work on this project, no U. S. Coast and Geodetic Survey control existed within this quadrangle. Three traverse stations of the U. S. Geological Survey were recovered and identified.

During the course of field work, a triangulation party of the Division of Geodesy executed a second-order triangulation scheme. Two stations were established within this quadrangle. One station was established west of the quadrangle.

MEDANO, 1949

The stations established by the Division of Geodesy are ENCINO 1949, MEDANO 1949, and PARRITA 1949.

In addition to the above, it was deemed both practical and necessary for this party to occupy the towers and locate natural objects by intersection for additional control. One windmill inside the quadrangle was located by cuts from two or more triangulation stations. This station, AGUA DULCE WINDMILL 1949, was also identified. HUYIDOS WINDMILL 1949, just south of the quadrangle limits, was also located and identified. NORIAS RANCH SILO, west of the quadrangle was located and identified.

Horizontal control was identified on the following photographs: 48-0-1337, 48-0-1414, 48-0-1415, 48-0-1416, 48-0-1917, 48-0-1938, 48-0-2111, 48-0-2113, and 48-0-2115.

One USGS traverse station, PTS NO 15 1920, was reported lost.

4. VERTICAL CONTROL

Instructions specified the recovery & identification of geodetic vertical control in planimetric survey areas.

Five bench marks of the U. S. Coast and Geodetic Survey were recovered and identified inside the quadrangle. These bench marks are F 672; G 672; H 672; J 672; and PTS 49N (USGS), also *PTS 49W, USGS, 1920; K-672; and L-672.*

Two bench marks established by the U. S. Geological Survey were recovered and identified. These bench marks are PTS NO 12 and PTS NO 13 1920.

Six
~~Four~~ bench marks established by the U. S. Engineers were recovered and identified. The datum was converted from Mean Low Gulf by subtracting 1.02 feet from the elevations as determined by the U. S. Engineers. Several checks were run between bench marks of known Mean Sea Level elevation and the line established by the U. S. Engineers, in the vicinity of Corpus Christi, Texas and the difference in the datums was applied throughout the line on any U.S.E. monuments that were recovered and used by this party. The elevations inked on the photographs are corrected to Mean Sea Level.

Bench marks are identified on the following photographs: 48-0-1414, 48-0-1415, 48-0-1339, 48-0-1340, 48-0-1923, and 48-0-1943.

Two bench marks (BMS 019, HOAR Co; BM Jeep, HOAR Co.) established by the Humble Oil & Refining Co., were recovered and identified.

5. CONTOURS AND DRAINAGE

Upon examination of Saltillo Ranch Quadrangle, Kenedy County, Texas, it was found that no contouring was performed on the potreros (grassy islands) of Mesquite Rincon. Since the project instructions called for contouring of quadrangles T-9205() and T-9207(), thus covering only half of these potreros, it was thought best to contour the complete area rather than leave a hiatus. *Since this is a planimetric map, no contours have been shown.*

Contouring was performed by standard planetable methods on single lens, 1:20,000 scale contact print 48-0-1427.

There is no definite perennial drainage pattern. All drainage is of the runoff variety, from the many ridges to the low places in between. The water collects here and forms the numerous intermittent ponds.

6. WOODLAND COVER

The woodland cover is a thick growth of live oak and mesquite. The live oak is usually found along the tops of the ridges, with the mesquite in the lower places in between.

7. SHORELINE AND ALONGSHORE FEATURES

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

8. OFFSHORE FEATURES

There are no offshore features within this quadrangle.

9. LANDMARKS AND AIDS

There are no landmarks for nautical charts or aeronautical aids.

There are no fixed aids to navigation or floating aids to navigation.

10. BOUNDARIES, MONUMENTS, AND LINES

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

11. OTHER CONTROL

Four topographic stations were located by photogrammetric methods. They are BM 40 USE, BM 44 USE, BM 48 USE, and BM 55 USE.

12. OTHER INTERIOR FEATURES

There is only one building. This is a camp of the San Jose Ranch. ^{*} The building has been classified according to Photogrammetry Instructions No. 29 dated 1 October 1948.

The roads in the area, with one exception, are sand trails used mainly by four-wheel drive vehicles in carrying on the operation of the ranches. One road located along the southwest corner of the quadrangle is macadam. All roads are single lane and are private. All roads have been classified according to Photogrammetry Instructions No. 10, dated 14 April 1947.

There are no bridges or cables over navigable streams within the area.

There are no airports or landing fields within the area.

Due to the lack of other features, the fences should be shown. All fences visible on the photographs have been labeled. The fences not visible have been sketched on the photographs.

13. GEOGRAPHIC NAMES 554 ✓

The only investigation of geographic names undertaken by the field inspection party was the names of all wells within the area. The name of the wells, with the correct spellings have been inked in on the field inspection photographs. The names on the Kenedy Ranch were verified by Mr. Morgan Chandler, foreman for that section of the ranch. The names on the King Ranch were verified by Mr. Guadalupe Hernandez, a ranch employee for forty-one years.

The only discrepancies noted by the field inspection party were the number of new wells not shown on the well map. The field inspection party was unable to find RINCON WELL as shown on the well map. According to Mr. Chandler, of the Kenedy Ranch, and Mr. Hernandez, of the King Ranch, no well by this name has ever existed on either ranch.

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," to be submitted at a later date.

* San Jose Ranch now a part of the King Ranch.

"Special Report, Boundaries, Project Ph-36(48), Baffin Bay to the Rio Grande," to be submitted at a later date.

Data, Quadrangle T-9206(), letter of transmittal Ph-36 Field 64 dated 7 June 1950.

Submitted
5 June 1950

William M. Reynolds
William M. Reynolds
Cartographer (Photo)

Approved
7 June 1950

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

MAP T. 9206 PROJECT NO. Ph-36(48)D SCALE OF MAP 1:20,000 SCALE FACTOR

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)	
PTS No. 12, 1919 (USGS)	Tarida Ranch Quad P. 850	N.A.	26 45	00.11	3.4	1843.2	+ 4.0	7.4	1839.2	
			97 34	02.06	56.9	1601.0	-26.0	30.9	1627.0	
SUB PT PTS. No. 12, 1919 (USGS)		N.A. 1927	26 44					1784.0	62.6	
			97 34					54.6	1063.3	
PTS No. 13, 1920, (USGS)	Saltillo Ranch Quad P. 846	N.A.	26 45	17.55	540.1	1306.5	+ 4.0	544.1	1302.5	
			97 36	47.79	1320.5	337.4	-26.0	1294.5	363.4	
SUB PT PTS 13 1920, (USGS)		N.A. 1927	26 45					556.0	1290.6	
			97 36					1348.7	309.2	
PTS No. 48W 1920 (USGS) <i>Went up T-2606</i>	Saltillo Ranch Quad	N.A.	26 49	23.35	718.6	1128.0	+ 4.0	722.6	1124.0	
			97 38	42.18	1164.7	492.1	-26.0	1138.7	518.1	
SUB PT PTS NO. 48W, 1920 (USGS)			26 49					790.7	1055.9	
			97 38					1147.1	509.7	
PTS NO. 49W, 1920, (USGS)	Saltillo Ranch Quad	N.A.	26 48	42.07	1294.8	551.8	+ 4.0	1298.8	547.8	
			97 33	53.92	1489.1	167.9	-26.0	1463.1	193.9	
SUB PT PTS. NO. 49W, 1920, (USGS)			26 48					1219.2	627.4	
			97 33					1321.0	336.0	
AQUA DULCE WIND- MILL, 1949	Texas IV P. 520	N.A. 1927	26 47	36.19				1113.8	732.8	
			97 35	22.97				634.5	1022.8	
SUB PT AGUA DULCE WINDMILL, 1949		"	26 47					1108.7	737.9	
			97 35					645.3	1012.0	
NORIAS RANCH SILO 1950	Texas IV P-517	"	26 46	13.942				429.1	1417.5	
			97 42	03.214				88.8	1568.8	

COMPILATION REPORT

T-9206

PHOTOGRAMMETRIC PLOT REPORT

See descriptive report for Survey No. T-9208

31. DELINEATION

The field inspection data and the quality of photography were adequate for satisfactory graphic delineation.

32. CONTROL

The density and placement of horizontal control were adequate. For identification of horizontal control, see radial plot report. (T-9208)

33. SUPPLEMENTAL DATA

See field inspection report, item No. 14.

34. CONTOURS AND DRAINAGE

See item No. 5 of field inspection report for explanation of contours on this planimetric type survey.

35. SHORELINE AND ALONGSHORE DETAILS

Very little shoreline was delineated by the field inspection party for this survey but the field note, "Storm water line follows vegetation line", was sufficient to guide office delineation of the shoreline.

The low water line was furnished by field inspection.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

Six forms 524 for recoverable topographic stations are applicable to this map. Four of these have been reported in item 11 of the field report, one was listed with T-9204 but falls on this survey, and one for ENCINO AZ. MK. was prepared at the compilation office.

The six stations are listed in item No. 49.

39. JUNCTIONS

The following are the adjoining manuscripts:

- To the north, T-9204
- To the east, T-9207
- To the south, No contemporary survey
- To the West, No contemporary survey

The junctions are in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the U. S. Geological Survey Saltillo Ranch, Texas, quadrangle, scale 1:62,500, edition of 1923, reprinted 1944.

47. COMPARISON WITH NAUTICAL CHARTS

The manuscript was compared with nautical chart No. 1287, scale 1:80,000, published 7-4-49, and corrected to 3-20-50.

Items to be applied to nautical charts immediately:

None.

Items to be carried forward:

None.

Respectfully submitted
19 February 1951

Raymond Glaser
Raymond Glaser
Cartographic Photo. Aid

Approved and forwarded
February 1951

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

48. GEOGRAPHIC NAME LIST

T - 9206

- ~~Agua Dulce Windmill~~ *delete this name (only as name of Δ)*
- ~~Agujas Well~~
- ~~Andres Well~~
- * Banita Well
- Candilia Well
- * Dos Amigos Well
- Encina de la Cruz Well
- Guajolote Well
- ~~Kenedy County~~ *For title*
- ~~Kenedy Ranch~~
- King Ranch (Norias Division)
- Laguna Madre
- Mesquite Rincon
- Mojados Well
- Parrita Well
- ** Rincon Well
- Rodeo Well
- Santa Cruz Well
- * Soldado Well
- ~~Sotera~~
- Topo Well
- Well (no name)

* Spelling in question

**Name on geographic names standard, but not located by field inspection

Names underlined in red
are approved. 6-27-51
L. Heck

Re-checked 6-16-52
L. Heck

49. NOTES FOR THE HYDROGRAPHER - T-9206

The following recoverable topographic stations are shown on the manuscript:

EM 36 (USE) 1950
EM 40 (USE) 1950
EM 44 (USE) 1950
EM 48 (USE) 1950
EM 55 (USE) 1950

ENCINO AZ. MK. (1949), 1950

50 -

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9206

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

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

MISCELLANEOUS

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

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-9206

51. Methods.--All roads were travelled by Jeep to check their classification and to answer questions raised by the reviewer. Other planimetric features were verified as to their existence and classification.

Additions and corrections were made on the Field Edit Sheet or photographs. Cross-referencing was used between the Field Edit Sheet and the photographs.

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

Field edit information will be found on the Field Edit Sheet and the following photographs: 48-0-1337 and 48-0-1413.

52. Adequacy of compilation.--The map manuscript appears 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 of the map detail appears good.

54. Recommendations.--None offered.

55. Examination of proof copy.--It is recommended that a proof copy be sent to Mr. Francis G. French for examination of the part covered by the Kenedy Ranch. He is County Surveyor of Kenedy County and has agreed to make the examination.

A proof copy should also be sent to the King Ranch Office, Kingsville, Texas, attention Mr. Robert C. Wells, for examination of the part of the quadrangle which lies within the King Ranch.

Geographic names.--Three discrepancies in the spelling of geographic names were noted. DOS AMIGOS WELL should be LOS AMIGOS WELL. BANITA WELL should be BONITA WELL. SOLDADO WELL should be SOLEDAD WELL. *Corrections applied and approved by Geographic Names Section.*

One name, well-established locally, has been added to the Field Edit Sheet and is recommended for charting. It is SAN JOSE RANCH* and is located at the south limit of the map manuscript.

56. Precinct lines.--The Commissioner precinct lines in Kenedy County have all been changed since original field work. A copy of the recent Legal Description was obtained and submitted with quadrangle T-9211.

~~In accordance with 4055 type instructions precincts were not shown.~~

Respectfully submitted,
11 January 1952

William H. Shearouse
William H. Shearouse,
Cartographer

* San Jose Ranch is a part of the King Ranch.

REVIEW REPORT
Planimetric Map T-9206
17 June 1952

62. Comparison with Registered Topographic Surveys:

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

These topographic surveys are superseded by the new map (T-9206) for nautical charting.

63. Comparison with Maps of Other Agencies:

Saltillo Ranch Quadrangle, USGS, Edition 1923, Reprint 1944, 1:62,500

64. Comparison with Contemporary Hydrographic Surveys:

None.

65. Comparison with Nautical Charts:

Chart No. 121⁸7, 5 March 1951, 1:80,000

66. Adequacy of Results and Future Surveys:

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

In the Laguna Madre and the adjoining flats area the water 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 place to indicate by a broken line symbol the approximate limits of areas which were subject to inundation. The decision was arrived at mainly for these reasons.

1. The difficulty encountered in identifying the MHW line from 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 problem, refer to the correspondence and sundry reports to be attached to the compilation 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.

Reviewed by:

Charles Hanavich
Charles Hanavich

Approved:

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

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

R. W. Swanson
Chief, Div. of Photogrammetry
Acting

Carl O. Heaton
Chief, Div. of Coastal Surveys

