Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: PLAINMERIC

Field No.: Ph-36(48)A  Office No.: T-9181

<table>
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<th>LOCALITY</th>
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<td>State: TEXAS</td>
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<tr>
<td>General locality: NUECES BAY</td>
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<tr>
<td>Locality: CLARKHOOD</td>
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18W 51

CHIEF OF PARTY
C.W. Clark, Chief of Party (Field)
H.A. Paton, Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE: DEC-17-1953
DATA RECORD

T - 9181

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

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

Instructions dated (II) (III):
14 February 1949 - Supplement No. 2(II) Field 26 July 1949 Photogrammetry (IV).
28 July 1949 Office Files Office Compilation Assignment, 8 June 1949

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000 Stereoescopic Plotting Instrument Scale (III):
Scale Factor (II): 1.000

Date received in Washington Office (IV): 2-3-50 Date reported to Nautical Chart Branch (IV): 2-10-50

Applied to Chart No. Date: Date registered (IV): 7-30-53

Publication Scale (IV): 1:20,000 Publication date (IV):

Geographic Datum (III): N.A.1927 Vertical Datum (III): MHW
Mean-sea-level except as follows:
Elevations shown as (a) refer to mean high water
Elevations shown as (o) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): ROGERS 2, 1949

Lat: 27° 46' 37.548 Long: 97° 37' 09.539 Unadjusted
(1155.8m) (261.2m)

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

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)
(II) (III)

Planimetric
DATA RECORD

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

Date: March, April 1949

Planetable contouring by (II): None

Date: 

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

Date: Sept 14, 1951

Mean High Water Location (III) (State date and method of location): 12-8-48
Identified on field photographs

Projection and Grids ruled by (IV): VENW

Date: 6-23-49

Projection and Grids checked by (IV): HDW

Date: 6-26-49

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

Date: 7-29-49

Control checked by (III): B. Wilson

Date: 8-12-49

Radial Plot on Stereoscopic: F.J. Taraza

Date: 9-23-49

Control extension by (III):

Date: 

Stereoscopic Instrument compilation (III):

Planimetry

Date: 

Contours

Date: 

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

Date: Nov. 21, 1949

Photogrammetric Office Review by (III): J.W. Vonasek

Date: Jan. 19, 1950

Elevations on Manuscript checked by (II) (III):
J.W. Vonasek

Date: Jan. 3, 1950
Camera (kind or source) (III):

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Tide (III)

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Reference Station: Galveston

Washington Office Review by (IV): C. Theurer

Final Drafting by (IV): M. R. Beale

Drafting verified for reproduction by (IV): W. R. Rollin

Proof Edit by (IV): W. Strunfel

Land Area (Sq. Statute Miles) (III): 54
Shoreline (More than 200 meters to opposite shore) (III): 3
Shoreline (Less than 200 meters to opposite shore) (III): 11
Control Leveling - Miles (II): 0
Number of Triangulation Stations searched for (II): 12
Number of BMs searched for (II): 32
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

Recovered: 6  Identified: 6
Recovered: 26  Identified: 26
Project Ph-36(A) 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 shore line surveys in Part IV of Project Ph-14(46).

Information concerning Ph-36(A) 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 pluviometric surveys. Of those, 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 pluviometric maps. The remaining seven, T-9175, T-9176, T-9177, T-9181, T-9189, T-9201, and T-9206, will be published as pluviometric maps.

Gloss-covered 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. Gloss-covered 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 planimetric quadrangle is located in southern Texas and just west of the City of Corpus Christi. The entire area is land except for a very small part of the northeast corner which extends into Nueces Bay. The land is flat and very fertile, which makes it ideal for farming. The principal crops of the area are cotton and a sizable amount of truck farming.

In addition to farming, the exploration and development of the oil industry is quite prominent in the area. A large oil field is in operation around Clarkwood, which is a small town located in the south-central part of the quadrangle.

The area is accessible by two good highways and also two railroads. State Highway 44 crosses the quadrangle in an east-west direction. State Highway 9 crosses the quadrangle in a northeast-southwest direction. The Texas-Mexican Railroad parallels State Highway 44 across the area and the Missouri-Pacific Railroad crosses both northeast and northwest corners of the quadrangle.

Oso Creek to the south and Nueces River to the north are the principal natural features of the quadrangle.

Field inspection was done on 1:20,000 ratio prints and is believed to be adequate and complete.

The land in the area is very dark and in most cases the photographs have a greyish tone even though parts of the area are used for pastures and are covered with grass. This is accounted for as due to the color of the soil and also due to the photography being done in the winter when the grass had very little growth. The numerous white spots which show on photographs 1366 and 1368 are dumps of spoil from drilling operations, which have bleached in the sun and show very white. These spots have been labeled on the photographs.

3. **HORIZONTAL CONTROL.**

During the course of field inspection in this quadrangle, a triangulation scheme was executed by the Division of Geodesy. Prior to this scheme only one Coast and Geodetic Survey horizontal control station was recovered and identified. At a later date, the stations established by this scheme were identified.
Several traverse stations of the U.S. Geological Survey were recovered and identified. Two U.S. Coast and Geodetic Survey stations immediately adjacent to the area were recovered and identified.

The following U.S. Coast and Geodetic Survey triangulation stations were searched for and not recovered: ACES - 1923, SHASTER - 1933, and ROGERS - 1905. The following U.S. Geological Survey traverse stations were searched for and not recovered:

- Railroad Water Tank - 1923
- PTS 14-Y 1923
- PTS 15-Y 1923
- PTS 16-Y 1923
- PTS 18-Y 1923
- PTS 34-Y 1923

4. VERTICAL CONTROL.

All Coast and Geodetic Survey and Geological Survey bench marks within the area and immediately adjacent thereto were searched for or recovered.

The following bench marks within this quadrangle and immediately adjacent thereto were recovered and identified:

- V 585
- W 585
- X 585
- Y 585
- Z 585

- V 609
- W 609
- X 609
- Y 609
- Z 609

- A 589
- B 589
- C 589
- D 589
- E 589

- F 589
- G 589
- H 589
- I 589
- M 919

- V 588
- W 588
- Q 589
- R 589
- S 589

- C 607
- D 607
- E 607
- PTS 21-Y
- PTS 22-Y

- PTS 36-Y
- PTS 17-Y
- PTS 21-Y

Form 685 was submitted for these and all other bench marks in the adjacent area.

5. CONTOURS AND DRAINAGE.

As this is a planimetric map, no contouring was done.
The major drainage in the area, is the Nueces River in the north part of the quadrangle and Oso Creek which drains the southern part of the area. The Nueces River is a sizable river which drains from a northwest to southeast direction and empties into the bay of the same name. Only the head of Oso Creek is in the south-central part of the area. The head of the creek is near the small settlement of Violet. The course of the creek is approximately parallel to that of the river but the terminus of the creek is Oso Bay, which in turn empties into Corpus Christi Bay.

6. **WOODLAND COVER.**

All woodland cover consists of small acreages of mesquite and chapparal. All of the woodland is of the scrub variety and has been classified as such.

7. **SHORELINE AND ALONGSHORE FEATURES.**

Shoreline within the limits of this quadrangle is confined to the Nueces River and a very small portion of Nueces Bay.

The shoreline of the river at normal stages is visible on the photographs and was not indicated. The marsh area, immediately adjacent to the river is very low and is covered when the river is at flood stage.

The shoreline along Nueces Bay is marsh line and has been indicated as such.

There is no perceptible periodic tide in Nueces Bay. The only tidal action is caused by winds and the low water line is synonymous with the mean high water line.

Where the marsh and fast land meet south of the Nueces River, bluffs are the most prominent natural feature. These bluffs are from 30 to 50 feet high and parallel the limits of the marsh throughout the northeast corner of the quadrangle.

There are no docks, piers, or landings.

There are no shoreline structures.

8. **OFFSHORE FEATURES.**
The only offshore features within this quadrangle will be a new power line crossing Nueces Bay in an east-west direction. The pole line originates at Central Power and Light Company, Nueces Bay Power Plant. The pole line will enter this quadrangle approximately directly west of triangulation station VIOLA, 1933.

Very few of the poles were in place at the time of this survey and the exact route of the pole line could not be determined. This one phase is incomplete and should be investigated by Field Edit.

9. LANDMARKS AND AIDS. See p 37 of Compilation Report

There are no landmarks for nautical charts within this quadrangle.

Interior landmarks consist chiefly of the highway and railroad systems; also the power transmission and cross-country telephone lines.

The Municipal Water Tank in Clarkwood is the most prominent structure above ground and would be a suitable aeronautical landmark. This tank has been identified on photograph 1366.

There are no aeronautical aids.

There are no fixed or floating aids to navigation.

10. BOUNDARIES, MONUMENTS AND LINES.

All information on boundaries will be found in "Special Report, Boundaries, Raffin Bay to Latitude 28° 00', Project Ph-36(48).

11. OTHER CONTROL

No other control of any type was established by this party.

12. OTHER INTERIOR FEATURES.

Road classification was done in accordance with Photogrammetry Instructions No. 10, dated 14 April 1947 as amended 24 October 1947.

Buildings and structures were classified in accordance with Photogrammetry Instructions No. 29, dated 1 October 1948.
There are no bridges or cables over navigable waters. One submerged pipeline with a telephone line paralleling the pipeline has been indicated on photograph 1368. The pipeline and pole line originate at the Humble Oil Company pumping station and continue straight across the river and bay into quadrangle 9176. The route of the pipeline is visible on photograph 1368.

Two small airports are found within this quadrangle, outlying Field 31 and Douglas Airport. Outlying Field 31 is a part of the U.S. Navy's Advanced Air Training system but was inactive at the time of this survey. Douglas Airport is a small privately owned field. The landing area is entirely sod and suitable for small light aircraft only.

13. GEOGRAPHIC NAMES.

The investigation of geographic names is now in progress and will be the subject of a special report to be submitted at a later date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA.

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

A special report on geographic names will be submitted at a later date. The title of the report and the area covered are not known at the present time.

Coast Pilot Information will be submitted in a special report at a later date.

There are no special maps or plats to be submitted with field data for this map other than that contained in the above mentioned Special Reports.

Letter transmitting field records Ph-36-Field-6.

Submitted:
1 June 1949.

W. M. Reynolds
W.M. Reynolds
Cartographer (Photo.)

Approved:
10 June 1949

Charles W. Clark
Lt. Comdr., USC&GS
Chief of Party.
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<th>D. N. 1927-DATUM CORRECTION</th>
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<td>G-2874 Field</td>
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<td>27 49 39.396</td>
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* See letter No. 63-nm, dated 15 September 1949, attached to this report.
COMPILATION REPORT

T-9181

PHOTограмMETRIC PLOT REPORT

The photogrammetric plot report for this area is included in the descriptive report for T-9175, submitted to the Washington Office on 16 December 1949.

31. DELINEATION

This survey was delineated by graphic methods. A discrepancy overlay has been prepared and is being submitted with this manuscript.

32. CONTROL

The identification and density of horizontal control was adequate.

33. SUPPLEMENTAL DATA

Geographic names standard dated 4 November 1949, on USGS, Robstown quadrangle, was furnished by the Washington Office.

The map of San Patricio County and the Nueces County Highway map were used in connection with the boundaries. They are part of the "Special Report on Boundaries".

A highway map of District 16 furnishes some highway information. It was submitted by the field party as Name Sheet 34 (Special Names Report No. 129.)

34. CONTOURS AND DRAINAGE

Contours—Inapplicable.

Drainage—Refer to field report.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

36. OFFSHORE DETAILS

None.
37. LANDMARKS AND AIDS

Form 567 is being submitted for a tank identified by the field party. Copy of Form attached.

38. CONTROL FOR FUTURE SURVEYS

None established in the area by the field party.

39. JUNCTIONS

Junctions with surveys Nos. T-9175 to the north and T-9182 to the east have been made and are in agreement. To the south and to the west is the project limits where there are no contemporary surveys.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41-45. Inapplicable

46. COMPARISON WITH EXISTING MAPS

This manuscript was compared with the U.S. Geological Survey, Robstown quadrangle, scale 1:62,500, edition 1925, reprinted 1941, and also with Air Photo Compilation No. T-5366 (1934).

47. COMPARISON WITH NAUTICAL CHARTS

Survey No. T-9181 has been compared with USC&GS Chart No. 1286, scale 1:80,000, published at Washington, D. C. 1 August 1949 corrected to 15 October 1949.

*Items to be applied to nautical charts immediately*

None.

*Items to be carried forward*

None.

Respectfully submitted
21 November 1949

Mary L. Bloom
Cartographic Draftsman

Approved and forwarded
25 January 1950

Hubert A. Paton
Officer in Charge
48. GEOGRAPHIC NAMES LIST

- ANNIVILLE
- CALALLEN
- CLARKWOOD
- DOUGLAS AIRPORT
- GRACE CHURCH
- HILLTOP NUECES COUNTY T.B. SANITORIUM
- MGORTON ADDITION
- NUECES BAY
- NUECES COUNTY
- NUECESTOWN
- NUECES RIVER
- OSO CREEK
- RAND MORGAN LANE
- RINCON BAYOU
- R.W. MORGAN FARM
- SAN ANTONIO, UVALDE AND GULF RR
- SAN PATRICIO COUNTY
- SANTA MARIA CHURCH
- ST. ANTHONY CHURCH AND CEMETERY
- ST. LOUIS BROWNSVILLE AND MEXICO RR
- TEXAS MEXICAN RR
- TULE LAKE
- TULOSA MIDWAY SCHOOL
- VIOLA
- VIOLET

San Patricio Co. Commissioner Precinct #2
Nueces Co. Commissioner Precinct No. 1

Up River Road (Shell Rd)
San Juan Addition
Highway Village
Rolling Acres Subdivision

Texas 180s. 9 and 44

Names underlined in red are approved.
9-18-82
L. Hock
PHOTOGRAMMETRIC OFFICE REVIEW

T-9181

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

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

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

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

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

BOUNDARIES
31. Boundary lines
32. Public land lines

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

Reviewer
Supervisor, Review Section of 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:
To: Officer in Charge  
Baltimore Photogrammetric Office  
U.S. Coast and Geodetic Survey  
518 East 32nd Street  
Baltimore 18, Maryland.

Subject: Position of triangulation station CLARKWOOD MUNICIPAL WATER TANK

The correct latitude of CLARKWOOD MUNICIPAL WATER TANK should be 27° 47' 02.34" as reported in your letter of 13 September 1949.

(Signed) J.H. Hawley  
Acting Director
13 September 1949

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

Subject: Error in position of triangulation station,
         Clarkwood, Texas

Attention is called to an error in the latitude of
CLARKWOOD MUNI. WATER TANK, 1949, as listed on Field Computa-

The latitude should read 27° 47' 02.34" instead of 27°
47' 05.59".

Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric Office
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

---

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TANK</td>
<td>CLARKWOOD MUNICIPAL W.T.</td>
<td></td>
<td>27 47 72</td>
<td>97 32 218</td>
<td>N.A.</td>
<td>T-9181</td>
<td>1927 Triang.</td>
<td>x 1286</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(steel, 110 ft. high)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
Field Edit Report, T-9161

51. **Methods.**--All roads were travelled by truck to check their classification and to answer questions raised by the reviewer. All other planimetric features were verified as to their existence and classification. Corrections, deletions and additions were made on the Field Edit Sheet or the photographs and cross-referenced on the Field Edit Sheet.

The planetable was used to locate new street layouts and new buildings along Highway 9, which could not be easily tied down by identifiable points on the photographs, and to locate a recently constructed power line which runs across the northerly part of the quadrangle. Two new roads constructed by the Humble Oil Company along the Nueces River were also located by planetable. Other new buildings were located on the photographs by measurement from identifiable points.

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

Field edit information will be found on the Field Edit Sheet and the following photographs: 48-0-1366, 1367, 1368, 1382, 1383, 1384, 1385, and 1386.

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

53. **Map accuracy.**--No accuracy test was specified. From visual inspection and points used to take-off from and tie-in to 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 for many years, and a life-long resident, has agreed to examine the proof copy. His address is, County Courthouse, Corpus Christi, Texas.

Geographic names.--Three geographic names are recommended. They are: SAN JUAN ADDITION, HIGHWAY VILLAGE and ROLLING ACRES SUBDIVISION. These are recently developed areas and the names are well-established locally. The name in each instance is shown on the Field Edit Sheet.

No discrepancy was noted in charted names.

Respectfully submitted,
14 September 1951

William H. Shearouse
William H. Shearouse, Cartographer
62. Comparison with Registered Topographic Surveys. -
   T-490h  1:20,000  1934-35 (Graphic control)
   T-5366  1:20,000  1934

   This map supersedes these surveys for nautical charting purposes.

63. Comparison with Maps of other Agencies. -
   USGS Robstown Quadrangle  1:62,500, 1925 Reprinted 1941
   Extensive cultural changes since the discovery of oil in this area, shown on the map manuscript are now shown on the USGS quadrangle.

   The shoreline of Nueces Bay that is also the boundary between Nueces and San Patricio Counties is more accurately mapped on the map manuscript than on the USGS quadrangle.

64. Comparison with Contemporary Hydrographic Surveys. - None

65. Comparison with Nautical Charts. -
   Nautical Chart 1286  1:80,000  1942 Corr. 1952
   No major discrepancies between the map manuscript and the nautical chart were noted.

66. Adequacy of Results. - This map conforms with National Map Accuracy Standards. See Review Report T-9176, Item 66, for results of a horizontal accuracy test in this area.

Reviewed by:

Charles Theurer

APPROVED

S. V. Stieff
Chief, Review Section
Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

O. J. Reading
Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys