

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

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| Form 504 Rev. Dec. 1833 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR |
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| DESCRIPTIVE REPORT |
| Topographic Sheet No. Q |
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| |
| State Texas |
| LOCALITY Corpus Christi Nueces Bay & Corpus Christi Bay |
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| |
| 193 4- 5 |
| CHIEF OF PARTY |
| Earl O. Heaton |

U.S. GOVERNMENT PRINTING OFFICE: 1934

Form 537a Ed. Nov., 1929

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 9

REGISTER NO. 4904

| State | T QY CO | | | | | |
|------------|-----------|----------------------------|---|---------|-----------------------|---------------------|
| | | Corpus | Christi | | , | |
| General 1 | ocality_ | Nucces Bay | and Corpu | s Chris | ti Bay | |
| 1 | Neuces | Bay and | Corpus | Christi | Bay | |
| Locality.⁴ | estward. | y shore and to Long. 97 | -vno-nore ○-17 : | n shore | of Gorpu | o-Christ |
| Scale 1 | : 20,000 | Date of | survey Fe | b. Mar. | Sent. | 1934 |
| | | | v | • | Feb. | |
| weeck | Project | HT_118 | | | | |
| · | | Earl O. Hea | | | | |
| Surveyed | by | J. W. Somer | в & W. Т. | White | | |
| Inked by | | J. W. Somer | s & W. T. | White | | |
| Heights i | n feet ab | ove M.H.W. | to gr | ound t | o zeopszos | XXR68X |
| Contour, | Approxima | ate contour, | Form lin | e inter | val | feet |
| Instructi | ons dated | Nov. 5, 1 | 932, Sup. | Nov. 16 | <u>. 1933.</u> | 19 |
| Remarks: | ~ | | | | | |
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DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET Q

Nueces Bay shore and the north shore of Corpus Christi Bay,
eastward to Long. 97° 17'
Surveyed Feb., Mar., & Sept. 1934, & Feb., 1935
E. O. Heaton, H.& G. Engr., Chief of Pafty
J.W.Somers & W.T.White, Topographers
Instructions dated Nov. 5, 1932. Sup. Nov.16.1933

Purpose of Survey:

This survey was executed primarily to furnish supplemental control for hydrographic work and scondarily to aid in the control of photo-topographic sheets Register No.5365, 5366, 5367 compiled by the party of Ensign T. M. Price. If it had not been desirtable to start hydrographic work before the photo-topographic compilation had been completed this sheet would not have been necessary. In addition to signals located for hydrography the low water line was established and in places the high water line was obtained as an aid in compilation of the photographs. A few plane table positions were used as control for the photo compilation.

General Description of the Coast:

The shore line of the north side of Nueces Bay from Portland westward to Long. 97° 26.5' has a narrow sandy beach near the foot of a bluff bank of an average height of 35 feet. From Long. 97° 26.5' the bluff swings inshore to the north and west around a flat marshy cove which is located east of Rosita. The shore around White Point is marshy and follows close to the foot of the bluff along the east and south sides. The west shore of White Point is at the foot of a 3 ft. bank, approximately 100 meters west of the high bluff at the point.

The form of the south shore line of Nueces Bay from Long. 97° 25' to Long. 97° 26.3' is the result of the recent construction of the Southern Alkali Co's. ship channel and turning basin. This shore has at the north side of the ship channel and turning basin a spoil dump composed of sand, clay, and shell, light gray in color and ranging in height from 9 to 18 ft.

The bay shore from Long. 97° 27' to Long. 97° 29.7' is a low marsh area extending inshore to the railroad.

A part of the north and west shore of Corpus Christi Bay is also shown on this sheet. From La Quinta westward to Long. 97° 19.4' the shore is a narrow sand and clay beach at the foot of a bluff bank approximately 30 ft. in height. The south shore of Indian Pt. is a steep and narrow sand and shell beach and the north shore is flat and marshy.

Landmarks:

Stack - smoke stack, Southern Alkali Co. Chimney - red chimney S end of 2 story house, (Rosita ranch house, 1905)

Character of Control Used:

Sheet "Q" is controlled by 25 second and third order triangulation stations and by plane table traverse.

Date on Triangulation Stations:

Two dates are shown on this sheet for stations which have been recovered. The date of original establishment is shown in parenthesis and the last date of occupation is also shown. This was done because the datum was changed in 1927. The last date is the one which represents the plotted position.

Closing Errors of Traverse and Methods of Adjustment:

| Traverse | Closure error (meters) | Distance (miles) |
|---|------------------------|------------------|
| Counterweight R.R. Bridge to Indian Pt. | 3 | 1.7 |
| Indian Pt. to stake (3-ptfix) | 15 | 2.1 |
| Quintana to stake (3-ptfix) | 12 , | 2.8 |
| Portland to stake (3 ptfix) | 8 | 1.2 |
| Portland to Fay | 14 | 2.7 |
| Fay to Koonce | 12 | 4.5 |
| White Pt. to Koonce | 16 | 3.5 |
| Southern Alkali Co. to Corpus Christi municipal | | |
| stack incinerator stack | 10 | 1.8 |
| Southern Alkali Co. stack to Viola | 10 (rerun) | 4.7 |

All traverse lines were adjusted as perscribed in U.S.C.& G.S. publication No. 144.

Comparison of this Sheet to Other Surveys:

The shore line of this sheet was compared with shore line on chart 1286 and with photo-topographic sheet Register No. 5366.

The comparison with chart 1286 is as follows:

The north shore of Corpus Christi Bay shows a recession of from 10 to 40 meters. The north shore of Nueces Bay from Portland to Long. 97° 26.5' has in general receded from 0 to 40 meters. From Long. 97° 26.5' to White Pt. the marsh delta has built out nearly 200 meters in places. Very little change has taken place at White Point. The south shore of Nueces Bay from Long. 97° 25' to 97° 26.3' has been built out from 0 to 900 meters by the construction of a channel and turning basin for the Southern Alkali Co. From Long. 97° 27' to Long. 97° 29.7' very little change in the shore line was found.

In comparing the shore line on this sheet with that on photo-topographic sheet Register No. 5366 the agreement was found to be satisfactory.

Geographic Names:

- 1. Indian Point The south end of the peninsula extending SW from Portland, Texas is well known locally as Indian Point. This name and designation was throughly checked in the field by Lt. E. O. Heaton, Chief of Party.
- 2. The railroad from Corpus Christi to Portland and points north is shown on chart 1286 as the S.A.& A.P.R.R. This road is now owned and operated by the Southern Pacific Lines and is known as Southern Pacific.
- 3. The railroad from Corpus Christi NW to Viola and points northwest, is shown on chart 1286 as the S.A.U. & G.R.R. This road is owned and operated by the Missouri Pacific R.R. and the name as charted is correct for this branch.
- 4. White Point is a well established local name. This name has been checked in the field by men of this party and also of the party of Ensign T. M. Price, and it is recommended that it be charted as White Point instead of Whites Point.
- 5. Avery Point is a well established name for the point where the Southern Alkali Co. is now located.

List of Plane-table Positions:

SW corner of house - Lat. 27° 52:28, Long. 97° 19.05'

- Bert chimney, east end of house. 0.5 mile west of APortland
- Bouy remains of old bouy
- Red chimney, west end of house

Chimney, center of house, Lat. 27° 52.58', Long. 97° 24.25'

Nell - south gable of house

Chimney, south end of house

SW corner tin shed (pipe line valve house)

5"x5" concrete post, Lat. 27° 49.70', Long. 97° 29.76'
West end of bridge, Lat. 27° 49.42', Long. 97° 29.55'
End - west end center line of bridge
5"x5" concrete post, Lat. 27° 49.04', Long. 97° 28.44'
West gable yellow house
Station sign Nueces
Tow - windmill
Nu Ace Rail Way OPass Sing Sho -

Character of Marsh:

The marsh east of White Point is a delta formed by sand and clay washed down from the high land north of Nueces Bay. This area is covered with numerous small ponds and tide water bayous. M.H.W. covers about one-fourth of this marsh. The marsh on the south and west shores of Nueces Bay is composed of mud and sand. 75% of this marsh is flooded by M.H.W.

Inspected and approved:

and O. Heston

Earl O. Heaton, Chief of Party Respectfully submitted,

J. W. Somers, Observer

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Corpus Christi, Texas

| | | | | | | E | arl 0. | Heaton | |
|---------------------------------|--------------|-------------|-------------|-----------|---------|-------------|--------------|---------------------------------------|-------------|
| | | | | | TION | | | · · · · · · · · · · · · · · · · · · · | Chief of Pa |
| DESCRIPTION | | | | POSI | OSITION | | | METHOD | CHARTS |
| DESCRIPTION | | | TUDE | LONGITUDE | | DATUM | OF DETER- | CHARTS AFFECTE | |
| + CD1-GV | ٥ | | D.M. METERS | | | D.P. METERS | | | |
| STACK Southern Alkali stack | 27 | 4 8 | 1476.1 | 97 | 25 | 1465.5 | N.A. 1927 | Triangu- lation | 1286 |
| 1934 | | | | | | | | 10000 | 2000 |
| CHIMNEY | | | , , | <u> </u> | | | <u> </u> | | - |
| A Rosita ranch house, | 27 | 52 | 851.9 | 97 | 28 | 482.7 | 11 | 11 | 1286 |
| south chimney, 1905 | - | | | | | | | | |
| | | | | | | | | | - |
| | | | | | | | | | |
| See descr | lpti | ve r | eport for | Ну | drog | raphic Si | neet No | 2 for | |
| additional | l la | ndma: | rks. | | | | | | |
| These obje | e <u>cts</u> | are | visible | fro | m th | e water. | | | |
| Checked ar | nd v | erifi | led by: | | ; | | | | |
| | | | | 7 | ~~~ | Laur | | | · ··· |
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A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive indentification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc.

Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all-charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart. U. S. GOVERNMENT PRINTING OFFICE: 1834 25879

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

AIDS TO MAVIGATION

LANDMARKS FOR CHARTS

Corpus Christi, Texas

| | | | | | | <u></u> | Februa | y 5, 1939 | 5 , 193 |
|---|-----------------|------------------|----------------------|--------|-------|-------------|--------------|---------------------------------|--------------------|
| DIRECTOR, U.S. COAST AND GEO | DETIC | Sur | VEY: | | | | | | |
| The following determined escription given below, and sl | l obje hould | ects a l be c | re promin harted: | ent, c | an be | | istinguisl | Hesto | award from t |
| | | | | | | | | | Chief of Party |
| | | | | POSI | TION | | | | |
| DESCRIPTION | | LATI | TUDE | | LONG | ITUDE | | METHOD OF DETER- MINATION | CHARTS AFFECTED |
| Avery Foint Channel | | , | D,M. METERS | 0 | | D.P. METERS | DATUM | MINATION | AFFECTED |
| BEACON, Front Eange, black rectangular | 27 | 49 | 416 | 97 | 25 | 1608 | N.A. 1927 | Topo- graphy | 1286 |
| daymark on a 20° pile | | |] | | | | | | |
| BEACON, Rear Range black rectangular | 27 | 49 | 463 | 97 | 26 | 68 | 11 | π | n |
| daymark on a 20' pile situated on a 10' spoil | | | | | | | | | |
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A list of objects carefully selected because of their value as landmarks as determined from seaward, together with indi-

GEOGRAPHIC NAMES

| Survey No | 4904 |
|------------|--------|
| Chart No | 1286 |
| Diagram No | 1286-2 |

Approved by the Division of Geographic Names, Department of Interior. *\frac{\times}{Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

| Status | Name on Survey | Name on Chart | New Names in local use | Names assigned by Field | Location |
|--------|--------------------|---|---------------------------|----------------------------|----------|
| | White Point | Same | | | |
| | Rosita | 11 | | | |
| | Portland | 11 | | | |
| | Indian Point | # | Same | | 120 |
| | Neuces Bay | Same | | | |
| | | Rincon Point | | | |
| | Corpus Christi Bay | Same | | | , |
| | Neuces | п | | | |
| | Avery Point | | Seme | | 120 |
| | Corpus Christi | Same | | | |
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| | | APPROVED NAMES UNDERLINED IN RED H. L. Flemen | | | |
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Date of Review

- l. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5366, , with particular attention to the following details:
 - (a) Projection has been checked in the Field.
 - (b) Accuracy of location of plane table control points.
 - (c) Discrepancies between detail on this survey and the air photo compilations listed above.
 - (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.
- 2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5366, , , for a more complete discussion of any errors or discrepancies found.

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Hotes and corrections resulting from the review are shown on this survey in green.

Errors. S. E. Con. House.

N.W. Car House

windmill.

T 5366 by H.L. Haulins.

, Frank 4. Exhim

M-189

Date of Review

- 1. This survey has been reviewed in connection with Air Photo Compilation Nos. T- ,5367, with particular attention to the following details:
 - ∠(a) Projection has been checked in the Field.
 - (b) Accuracy of location of plane table control points. ± 5 m
 - (c) Discrepancies between detail on this survey and the air photo compilations listed above. No discrepancies
 - (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above. None
- 2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5367, , , for a more complete discussion of any errors or discrepancies found.

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Notes and corrections resulting from the review are shown on this survey in green.

R. M. Berry July 26, 1935. Shawk J. Enhance