DESCRIPTIVE REPORT

Topographic

Hydrographic

Sheet No. T-5475

State Florida

LOCALITY Sound
Santa Rosa Island

Reese Point to Longitude 86°37'59"
Range Point and Vicinity

1934

CHIEF OF PARTY

M. H. Reese
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

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. 4

REGISTER NO. T-5475

State Florida

General locality Santa Rosa Island Sound and vicinity

Locality Fence Point to Longitude 87º 20' and vicinity

Scale 1:10,000 Date of Survey July 11, 1934

Vendor Air Photo Compilation Party No. 24, Pensacola, Fla.

Chief of party W. H. Hansen

Surveyed by See data sheet in the descriptive report

Inked by S. S. Gill

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval

Instructions dated June 7, 1934

Remarks Compiled and printed on scale of 1:10,000

Scale factor 1.00.
- STATISTICS -

SHEET, FIELD NO. 4, REG. NO. T-5475

PHOTOS, NO. C-43 TO NO. C-43

DATE OF PHOTOGRAPHS 7/11/34 TIME 9 A.M.

BY ROUGH RADIAL PLOT
          E. P. Hernandez, Jr.
          9/29/54

SCALE FACTOR (1.00)
          E. P. Hernandez, Jr.
          9/29/54

SCALE FACTOR CHECKED
          M. H. Reese
          9/29/54

PROJECTION
          E. P. Hernandez, Jr.
          10/1/34

PROJECTION CHECKED
          H. C. Smith
          10/1/34

CONTROL PLOTTED
          H. C. Smith
          10/2/34

CONTROL CHECKED
          E. P. Hernandez, Jr.
          10/2/34

TOPOGRAPHY TRANSFERRED

TOPOGRAPHY CHECKED
          F. A. Donadese
          10/15-16/34

SMOOTH RADIAL LINE PLOT
          E. P. Hernandez, Jr.
          10/19/34

RADIAL LINE PLOT CHECKED
          S. S. Gill
          10/25/34

DETAIL INKED

PRELIMINARY REVIEW OF SHEET
          E. P. Hernandez, Jr.
          11/19/34

Total area of land 17.0 sq. statute miles
Area of detail inked 3.06 sq. statute miles (Land Area)
Area of detail inked ______ sq. statute miles (Shoals in Water Area)
Length of shoreline (more than 200 m. from nearest opposite shore)
19.4 statute miles
Length of shoreline (rivers and sloughs less than 200 m. wide)
____ statute miles

General Location
Santa Rosa Island Sound

Location
Range Point to Longitude 86°57'30"

Datum
North American 1827 (Unadjusted)

Station
Agassiz 2 - 1910-34
I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

The information used in the compilation of this sheet was obtained from the notes and sketches on the field photographs and from members of the field inspection party.

The land area of this sheet consists of sand dunes along the entire length of the island. Marsh and grass appear along the northern shore and the sand rises into dunes as one leaves the shore; grass and brush appear on the dunes. The shoreline was not easily determined along the north shore due to the grass and marsh spots showing black the same as the water. The high water line as determined by the field inspection party was used for tracing the shoreline on this sheet. The tide in this area is approximately 1.2 feet. The low water line is shown by a dotted line in the case of the sand spits.

This sheet was compiled from photographs taken by the Aero Service Corporation, single lens camera. Photographs numbers 43 to 46 approximately parallel to Latitude 30°23', and 51 lens photos along the land North of Santa Rosa Sound.

II. CONTROL:

(A) Sources.

The following sources of control were used in the compilation of this sheet:

(a) Triangulation by M. H. Reese, 1934.
(b) Triangulation by J. H. Peters, 1919–1920, used on T5276.
(c) Triangulation by R. L. Schoppe, 1927.
(d) Triangulation by G. H. R., 1910.

The geographic positions as established by G.H.R., 1910, and R. L. Schoppe 1927, were corrected to the North American 1927 Datum. Using first order triangulation station Cove-3 1926, as this was the only station appearing in this section common to the schemes, a conversion factor was obtained whereby the geographic positions of these stations on the North American Datum were corrected to the North American 1927 Datum. The correction was found to be -9.7 meters in forward latitude, + 9.7 meters in
back latitude, +14.7 meters in forward longitude,
and -14.7 meters in back longitude. This correction
was applied to stations Top 1927, Red 1919, and
Agassiz-2 1910.

Another correction was applied to the triangulation
done by M. H. Reese 1934, which was +5.1 meters
in forward longitude, -5.1 meters in back longitude,
-0.2 meters in forward latitude, and +0.2 meters in
back latitude. This conversion factor was obtained by
using stations Marsh-2 1919, Top 1927, Red 1919, and
Ranch-2 1919. This correction was applied to stations
Range-3 1934 and Black-2 1934.

No control stations established by other organiza-
tions were used in the compilation of this sheet.

(B) Errors.

The control used in the compilation of this
sheet was found adequate, except all control was
located along the center line of flight. Otherwise,
no errors were found in the compilation of this sheet.

(C) Discrepancies. No discrepancies in the geographic positions
of the control stations were found

III. COMPILATION:

(A) Method.

The usual single lens photograph radial line
method of plotting was used in the compilation of this
sheet.

(B) Adjustment of plot.

The photographs of this area are free from excessive
tilt and scale fluctuations, but trouble was experienced
due to the flatness of intersections in areas distant
from adjacent principal points.

(C) Interpretation.

Only the graphic symbols approved by the Board of
Surveys and Maps (1932) were used in the compilation of
this sheet, except the symbol thus ( ) which was
used to denote brush.

(D) Information from other sources.

There was no information taken from any sources
other than those mentioned herein.
(E) Conflicting names.

There are no conflicting names on the different charts of this area. All names shown on the overlay sheet were obtained from the U.S. C. & G.S. charts covering this area. See name list at back.

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheets to the East (T-5471) and West (T-5472) are satisfactory.

V. LANDMARKS:

List of landmarks in this area is submitted by Lieut. I. E. Rittenburg.

VI. RECOMMENDATIONS FOR FURTHER SURVEYS:

To the best of my knowledge, this sheet is complete in all detail of importance for charting purposes, and no additional survey is required.

Submitted by: S. S. Gill, Draftsman.

Approved by: M. H. Reese, Chief of Party.
MEMORANDUM TO ACCOMPANY SHEET NO. T-5475.

The shore line of this compilation, bordering on Santa Rosa Sound, has been checked against the C.C.S. sheet of Lieut. Rittenburg and also against the smooth plotted hydrographic sheet executed under his direction. Practically no discrepancies were found, and the ones that were discovered have been rectified.

This sheet was originally compiled on triangulation data computed from the field positions of the first order arc. After adjustment was made, there was considerable difference between the adjusted positions and the field positions. Therefore, it was necessary to change the projection of the compilation. The amount and the manner in which this projection was changed are given below:

<table>
<thead>
<tr>
<th>STATION</th>
<th>N.A. 1927 FINAL POSITION</th>
<th>CORR'N</th>
<th>N.A. 1927</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(UNADJUSTED)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range 3</td>
<td>30 20 49.652 1388.5</td>
<td>-3.1</td>
<td>1391.6</td>
</tr>
<tr>
<td></td>
<td>87 04 45.890 1225.6</td>
<td>-1.7</td>
<td>1227.3</td>
</tr>
<tr>
<td>Red</td>
<td>30 21 04.563 1056.5</td>
<td>-2.9</td>
<td>1039.4</td>
</tr>
<tr>
<td></td>
<td>87 00 01.256 33.5</td>
<td>-1.2</td>
<td>34.7</td>
</tr>
<tr>
<td>Top</td>
<td>30 21 04.563 140.5</td>
<td>-2.5</td>
<td>143.0</td>
</tr>
<tr>
<td></td>
<td>87 02 18.102 485.4</td>
<td>-1.9</td>
<td>486.3</td>
</tr>
<tr>
<td>Black 2</td>
<td>30 21 22.203 683.7</td>
<td>-3.2</td>
<td>686.9</td>
</tr>
<tr>
<td></td>
<td>87 01 01.574 42.0</td>
<td>-1.7</td>
<td>43.7</td>
</tr>
</tbody>
</table>

(Average Correction: Lat. -2.9; Long. -1.6)

Note: The original field computations of Reese 1934 triangulation and the correction of the older triangulation to North Am. 1927 datum were based on field positions on 1927 datum of the First Order Triangulation (See page 2 and 3 preceding) prior to completion of the compilation. The first order arc was adjusted in this office and a considerable change made in the field computations. Reese recomputed his triangulation on the office adjusted positions of the first order arc and shifted his projection as stated above.

M. H. Raths, Chief of Party, C. & G. S.
REVIEW OF AIR PHOTO COMPILATION NO. T-5475

Chief of Party: M. H. Reese

Project: Florida Compilation

Compiled by: S. S. Gill

Instructions dated: June 7, 1934

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, c, d, e, g and i; 26; and 64) All necessary information for bringing the charts up to date is shown on this compilation.

2. Change in position, or non-existence of wharves, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 28; and 66 g, n)

Wreck shown on previous charts at approximately Latitude 30°22' and Longitude 88°59' is now stranded along the beach and is no longer to be shown on charts.

3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d, e)

There were no ground surveys by plane table, sextant or theodolite to supplement the photographic plot. Comparisons with graphic control surveys made after completion of the plot.

4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)

No blueprints or maps from other sources were used for this chart.

5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.

There were no contemporary plane table or hydrographic surveys made before this sheet was forwarded to the office. See memorandum.

6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b, 44; and 66 c, h, i)

The above was mentioned in the descriptive report.

7. High water line on marshy and sandy coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

The high water line was drawn from notes and sketches on the field photographs.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."
### Geographic Names

**Survey No.** 5476-4  
**Chart No.** 1265  
**Diagram No.**

Approved by the Division of Geographic Names, Department of Interior. ![X]

Referred to the Division of Geographic Names, Department of Interior. ![R]

Under investigation. ![Q]

<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>![✓]</td>
<td>Santa Rosa Sound</td>
<td>Same</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>![✓]</td>
<td>Santa Rosa Island</td>
<td>&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>![✓]</td>
<td>Gulf of Mexico</td>
<td>&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>![✓]</td>
<td>Range Point</td>
<td>&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>![✓]</td>
<td>East Bay</td>
<td>&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The two surveys will be compiled as one and for this reason the nomenclature is confined to one list.
Comparison with Contemporary Graphic Control Surveys

T-6319a (1935), 1:20,000
T-6320a (1935), 1:20,000
T-6250b (1934), 1:10,000

Graphic control survey T-6250b has 3 temporary topographic signals that fall slightly outside the high water line shown on the compilation but in each case an examination of the photos shows a definite shoal area. The compilation has not been changed. T-6250b at triangulation station Clam 1934 at lat. 30° 23′, long. 87° 01.4′ has a short strip of rodred shoreline, both the high water line and the low water line. The compilation agrees with the high water line but the low water line is so indefinite on the photos that no attempt has been made to show it.

All detail shown on the above graphic control surveys has been shown on the compilation except the temporary topographic signals and magnetic meridians.

Comparison with Contemporary Hydrographic Surveys

H-5834a (1935), 1:20,000
H-5667 (1935), 1:10,000
H-5822 (1935), 1:20,000

An error of 0.0 mm to 0.1 mm has occurred in the transferring of the compilation shoreline to H-5667. No correction in H-5667 has been made as it is felt the difference is not large enough to warrant it. H-5834a and H-5822 are in agreement with the compilation.

Comparison with Former Surveys

T-797 (1860), 1:20,000
T-1193 (1871), 1:20,000
T-2159 (1895), 1:10,000
T-3792 (1920), 1:20,000

The portions of the above surveys covered by the compilation are in general agreement with the compilation. This compilation is complete and adequate to supersede the portions of the above surveys which it covers.

Comparison with Charts 490 and 1265

Two small docks shown on chart 1265 between long. 87° 03′ and 87° 04′ at lat. 30° 23.3′ are gone.

Nov. 11, 1936.
The representation of low water lines, reefs, compound
waves, and legends pertaining to them is satisfactory. (Par.
36, 37, 38, 39, 40, 41)

The low water mark was not shown due to the small difference
in low and high tide except in case of the sand spits.

Recoverable objects have been located and described on Form 524
in accordance with circular 30, 1933, circular letter of March 3,
1933, and circular 31, 1934. (Par. 29, 30, and 57)

There were no recoverable objects, other than Whapulaa.

A list of landmarks was furnished on Form 567 and instructions
in the Director's letter of July 16, 1934, Landmarks for Charts,
complied with. (Par. 16c, e, and 50)

Landmarks on this area submitted by L. J. E. R. Henley.

There were no landmarks suitable for navigation.

All bridges shown on the compilation are accompanied by a note
stating whether fixed or draw, clearance, and width of draw if
a draw bridge. Additional information of importance to naviga-
tion is given in the descriptive report. (Par. 16c)

There were no bridges on this chart.

Geographic names are shown on the overlay tracing. The accepted
local usage of new names has been determined and they are listed
in the report, together with a general statement as to source of
information and a specific statement when advisable. Complete
discussion of place names differing from the charts and from the
U. S. G. S. Quadrangles is given in the descriptive report,
together with reasons for recommendations made. (Par. 64, and 66k)

The geographic names are shown on the overlay tracing. No new
names were found.

The geographic datum of the compilation is N.A. 1927 Un-
adjusted and the reference station is correctly noted.

Junctions with adjoining compilations have been examined and are
in agreement. (Par. 66j)

Junctions with sheets to the East and West are satisfactory.

The drafting is satisfactory and particular attention has been
given the following: Yes.

1. Standard symbols authorized by the Board of
Surveys and Maps have been used throughout
except as noted in the report.

2. The degrees and minutes of Latitude and Longi-
titude are correctly marked.
3. All station points are exactly marked by fine black dots.

4. Closely spaced lines are drawn sharp and clear for printing.

5. Topographic symbols for similar features are of uniform weight.

6. All drawing has been retouched where partially rubbed off.

7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time.

17. Remarks:

18. Examined and approved;

M. H. Reese,
Chief of Party

19. Remarks after review in office:

Reviewed in office by: C. G. Jones

Examined and approved:

C. H. Green
Chief, Section of Field Records

T. P. Peacock
Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography and Topography.