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Form 504 Rev. Dec. 1933 DEPARTMENT OF COMMERCE	U. S. COAST. & GEODETIC SURVEY
U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	AUG 5 1935
DESCRIPTIVE REPORT Field 63  Sheet No 5382	Acc. No
xHydrographte   Sheet No 2222	
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State South Carolina	• • • • • • • • • • • • • • • • • • •
LOCALITY  /NTRACOASTAL WATERWAY  BOUTH SANTEE MIVER	<u>-</u>
SOUTI SANTER DIVER TO CASINO CREEK	
VICINITY OF CASINO CREE	<u>.</u>
193 4	
OHIEF OF PARTY	· · · · · · · · · · · · · · · · · · ·
E. H. Kirsch	- با مناب المستول المساول المستول المس
U. S. GOVERNMENT PRINTING OFFICE: 1994	

Air Photo applied to chart 36 Jeb. 3,1936 XH. C. applied to chart 1238 act. 20, 1937 g. N.S.

PHOTOS NO. 93 - 113 287 - 291	DATE August 4, 1934 August 5, 1934	TIME 7:45 A.M. 8:05 A.M.
PROJECTION BY	SleRipley L. C. Ripley	11-24-34
PROJECTION CHECKED BY	E. H. Kirsch	11-24-34
TROL PLOTTED BY	F. H. McBeth	11-26-3L <sub>4</sub>
CONTROL CHECKED BY	M. L. Smith	11-27-34
CONTROL PLOTTED ON PHOTOS BY	J. F. Richardson	12-4-34
CONTROL CHECKED ON PHOTOS BY	Transferred. L. C. Lande	12-7-34
TOPOGRAPHY TRANSFERRED BY	J. F. Richardson	12-8-34
TOPOGRAPHY CHECKED BY	Howard W. Langley	3::5-35
RMOOTH RADIAL PLOT BY	E. J. Anderson	12-20-34
RADIAL PLOT CHECKED BY	J. F. Richardson	1-5-35
SCALE PLOT BY	J. P. Mitchell T. P. Mitchell	11-30-34
DETAIL INKED BY	J. F. Richardson	2-9-35

AREA OF DETAIL INKED: 20.0 Square Statute miles.

LENGTH OF SHORELINE: 4.57 St. miles (Over 200m wide).

LENGTH OF STREAMS: 6.5 St. Miles (less than 200 m. wide).

LENGTH OF COASTLINE: None.

# 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....63

REGISTER NO. 5382
State South Carolina
General locality South Senton River
Vicinity of Cosino Creek, -Vicinity of Locality South Sunton River to Casino Crook  Ehotographs 8-4-34 & 8-5-34
Scale 1:10,529 Date of strong 19
Compilation- 2-9-35 Vessel Air Photo Compilation Party No.1 21
Chief of party E. H. Kirsch
Surveyed by See data sheet in descriptive report.
Inked by J. F. Richardson
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated. November 10, 1933 , 19.
Remarks: None.

#### GENERAL INFORMATION

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#### Statistics:

The total area covered by this sheet is 20.0 Sq. St. miles. The South Santee River is the only stream more than 200 meters wide, of which 4.57 St. miles of shoreline appear on this compilation. There are 6.5 St. miles of streams less than 200 meters wide.

#### Report:

Most of the area covered by this compilation is high ground and heavily wooded. A great portion of the area included in this compilation is owned by the Atlantic Coast Lumber Corporation; this fact accounts for the numerous sawdust piles and sparse areas of trees. A small amount of the high ground has been cleared of trees and is used for farming. Rice is found growing on the Wedge Plantation near triangulation station WENGE. Fresh water marsh is found on the banks of the South Santee River and Salt Water Marsh along the intracoastal Waterway. In general this area is of the low coastal plain type with slight relief.

#### Photographs:

Two lines of flight were made to secure the photographs to be used in this compilation. The center of the flight 93-113 follows along and parallel 1.25 miles east of U. S. Highway 701. The center of the flight 287-291 following the parallel to the flight 93-113 about 3.3 mi. east thereof.

These photographs 93-113 and 287-291 were in general, fairly good as to scale and tilt, but were not so clear as to detail in the area around Casino Creek. They were taken by the Aero Service Corp. of Philadelphia, on August 4, 1934 and August 5, 193h at 7:45 A.M. and 8:05 A.M. respectively.

#### CONTROL

#### Sources:

All the control used in this compilation was established or cut-in by Lt. Crosby 1934 except a traverse along highway 701 which was established by the State of S. C., and is known as the P.W.A. traverse.

The control established by Lt. Crosby is adjusted to N. A.

1927 datum. The P.W.A. State Traverse is unadjusted on North American

1927 datum. A Casino Creek Fin W., 1934, Casino Creek Bri S., 1934, Casino Cree

No errors in control were found.

## Discrepancies:

No discrepancies were found between the control established by this organization and the state of South Carolina P.W.A. Traverse.

## COMPILATION

#### Method:

The standard radial line method was used as described in the U.S.C. & G.S. "Notes on the compilation of Planimetric Line Maps from 5-lens aerial photographs."

#### Adjustment of Plot:

No unusual adjustments were necessary in making the plot or compiling this sheet.

#### Interpretation:

All topographic symbols were taken from the topographic manual, with the exception of the rectangular ink spots used for fire breaks on the wooded trestle between the South Santee and North Santee Rivers. These fire breaks are concrete.

It was difficult in some cases to determine the highwater line along the banks of the South Santee River because of overhanging cypress trees. However, since most of these areas were covered by G.C.S. there are no variations from actual conditions, because the pictures covering the area along the Intracoastal Waterway were dim and bad as to scale, the G.C.S. covering this area were closely adhered to, It is also well to note that dredging has been done in this area since the pictures were taken and that the topography has changed a great deal.

The spoil banks along the Intracoastal Waterway were simply sanded in beautiful according to field inspection men, they are changing in shape.

#### Information from other sources:

Field inspection by B. H. Rigg, 1934, G.C.S. No. "SS"
Reg. No. 7-62966, "MM" Reg. No. 7-62946, "KK" Reg. No. 7-62936.

#### Conflicting Names:

No conflicting names were found.

#### Remarks:

The bridge over the South Santee River is a fixed span,

x. The following clearances were taken from Lt King's tope field notes on this bridge -

LW. messen

Note This bidge is not bated in

the bid E 1927 List of Bridges and no information
has been given in this complation white T5382

or in the graphic control bung report as
to how the character values were obtained.
The character values on the official page
how been concelled to MHW by applying
a mean tole wangs of 4ft and one given
on this compilation for the centuripens.

Bg. Joves 7/11/35

steel truss bridge with wooden floor and concrete piers. joins a wooden trestle on the North and of the bridge and the concrete roadway of highway 701 on the South.

The bridge consists of four spans: \* See opp page

SPAM	VERTICAL CLEARN CE	HORESCHIEL SLEARLY DE
S. W.	11 Ft. mean low water	26.0 meters
S Center	11 Ft. " " "	26.0 meters
N.B. Center	10 Ft. " " "	26.5 meters
$N_{\bullet}E_{\bullet}$	9 Ft. " " "	26.0 meters

### COLLYN RESOLE WEITH OTHER SURVEYS

#### Junctions:

Satisfactory jurctions were made with the following:

Sheet No. 5380 on the North; 5383 on the East, 5387 on the Southeast and 5386 on the Southwest. On the west the compilation was carried to the limit of the photographs.

#### Landmarks:

There are no landmarks in this area of any value to navigation. Note Dold Chimney, NW of Station 5, 134, 15 noted on the 1934 recovery could of hee as a prominent mark about RECOMMENDATION FOR FURTHER SURVEYS 25ft high 2/3/36 1391.

This compilation is accurate to within .3 mm in well defined detail of importance for charting and not more than .6 mm in other detail.

It is my opinion that this sheet is complete in all detail of importance for charting and no additional surveys are required.

photographs and consequently could not be used for control and should be

Assisted by:

Chief of Party.

J. Richardson.

REMARKS: Triangulation Station CASINO CREEK BN. 4, Bn. 5, Bn. 7 were plotted on the celluloid sheet, but since these beacons were removed before the photographs were taken they could not be located on the

deleated from Chart No. 1238. There Brocoms are mot wheren on the comp lotum.

Date. May 16, 1935 GEOGRAPHIC	NAMES
Date. ///ay /6, /933	

Survey No. 7-5382	· · ·
Chart No	
Diagram No. 1238	

Approved by the Division of Geographic Names, Department of Interior. \*\footnote{\text{Referred}} \text{ 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
•	Casino Creek	do ch 1238			
	Casino Creek  South Santee Rive  Santee Gun Club Ro	"			
	Santee Gun Club Ro	ad novie			
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	<del></del>	/POROVED NAMES GREATHINED IN RED  + L Florier.	<del> </del>		
		+· L. Flemer,			
<del></del>					(M-

note a number of the lights whom on the graphic control Surveys are disignated as the consons on this compilation. At the line of the graphic control luneys there lights had not been completed but the positions were marked by siles is by the months where marked by siles is by the months is tweeting. The lights are much in operation according to aid proof examined this date 2/17/36 B.g. Jones

## REVIEW OF AIR PHOTO COMPILATION NO. T-5382

## Scale 1:10,000

## Comparison with Graphic Control Surveys.

- a. T-6296b (1934) (1:10,000) scale. No discrepancies.
- b. T-6294b (1934) (1:10,000) scale. No discrepancies.
- c. T-6293b (1934) (1:10,000) scale. The position of Beacon "35" on T-6293b does not agree with the position of this beacon on T-6294b or on the compilation within 3 meters. This position is in error on T-6293b. This decision was made after calling this discrepancy to the attention of the surveyor of T-6293b and T-6294b. A note has been made in green on T-6293b. PAll detail shown on T-6296b, T-6294b, and T-6293b within the area of this compilation is also shown on this compilation with the exception of non-recoverable plane table positions and the magnetic declination. See opposite page.

For a general description a purpose of the U. S. E. stations see the descriptive report for T-6295b, p.3., under the article "Permanent Hydrographic Stations".

## Comparison with Previous Topographic Surveys.

a. T-1308 (1873)(1:20,000) scale. T-1308 covers North and South Santee River delta. Only a small portion of T-1308 is common to the compilation. The greater portion of the rice field area is no longer cultivated. Where the dikes have been broken the area is partially flooded, and is marsh as shown on this compilation. The roads are alined in essentially the same position today as in 1873. U. S. Highway No. 701 is a new road. T-1308 is superseded by this compilation over the common area.

b. T-1347 (1874) (1:20,000) scale. T-1347 covers an area in the vicinity of Cape Romain. U.S. Highway No. 701 is a new road not in existence at the time T-1347 was made. Some roads shown with a double full line on T-1347 are shown by a single broken line on this compilation. T-1347 is superseded by the compilation for the area in common.

## Comparison with Chart No. 1238.

Changes to be made to this chart as a result of this compilation are discussed under the comparisons with other surveys. See bottom of Page 3 regarding deletion of Beacons.

#### Remarks.

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The projection of this compilation was tested roughly by checking long diagonals and found to be satisfactory.

See Page 3 regarding bridge clearance for Highway Bridge over Santee River.

Leonard A. McGann
July 2, 1935.

VBg. Jones

## REVIEW OF AIR PHOTO COMPILATION NO. 5382

Chief of Party: E. H. Kirsch

Compiled by: J.F. Richardson

Project: HT 162

Instructions dated: Nov. 10, 1933

- 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)
- -2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)
- 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)
- 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)
- 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.
- 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)
- 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

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."

- 8. The representation of low water lines, reefs, coral reefs and reeks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)
  - 9. 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)

    Descriptions of recoverable topo statious are filed under numbers for graphic control surveys of this area
- 10. 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. 16d, e; and 60)

  No landwarks in this area of importance to navigation.
- 11. 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 navigation is given in the descriptive report. (Par. 16c)
- 12. 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)

  No U.S.G.S. quadrangles of this area are available for geographic name Comparison.
- 13. The geographic datum of the compilation is NA 1927 and the reference station is correctly noted.
- 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
- 15. The drafting is satisfactory and particular attention has been given the following:
  - ∠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 Longitude are correctly marked.

- 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;

Chief of Party

19. Remarks after review in office:

Lee felling 1779

Reviewed in office by: Leonard a husami July 2, 1935

Examained and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.