

8214

8214

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photo. Compilation

Field No. _____ Office No. T-8214

LOCALITY

State South Carolina

General locality Georgetown-Williamsburg
Counties

Locality Henry

1943

CHIEF OF PARTY

Lieut. Comdr. K. G. Crosby

Lieut. Comdr. F. E. Gallen

LIBRARY & ARCHIVES

DATE June 6, 1946

8-1870-1 (1)

ON
Diag ch. 1110

DATA RECORD

T- 8214

Quadrangle (II): TRIO

Project No. (II): C.S. 285

Field Office: Myrtle Beach, S.C. Chief of Party: F. L. Gallen

Compilation Office: Tampa, Fla. Chief of Party: K. G. Crosby

Instructions dated (II III): 7/15/42

Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: August 23, 1943

Reported to Nautical Chart Section: August 24, 1943

Reviewed: Oct. 28, 1943 Applied to chart No.

Date:

Redrafting Completed: Jan. 26, 1944

Registered: 5/46

Published: 1944

Compilation Scale: 1:20,000

Published Scale: 1:20,000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927

Datum Plane (III): M.S.L. 1929

G.W. 1032, 1943 (VSC + GS. + SCGS)

Reference Station (III): ~~T-1 (Oaks P.G.) U.S.G.S.~~Field Position
from Horizontal Accuracy
Test Traverse No. 8

33° 43' 24.424" (752.5 m) 79° 22' 34.286" (882.8 m)

Lat.: ~~33° 39' 33.2"~~Long.: ~~79° 25' 00.7"~~

Adjusted

(1022.9 m.)

(224.2 m.)

Unadjusted

State Plane Coordinates (VI): S. Carolina S. Zone

There are no plane coordinates for Ref. Sta. G.W. 1032, 1943

X = —

Y = —

Military Grid Zone (VI) B

O, K.

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8343	April 2, 1942	-	1:20,000	Inshore Sheet
8344			"	
8371			"	
8372			"	
8373			"	

Tide from (III): No Tide (Inshore Sheet)

Mean Range: -

Spring Range: -

Camera: (Kind or source) U.S.Coast & Geodetic Survey 9 lens
(Focal length $8\frac{1}{2}$ ")

Field Inspection by: D.G.Flipppo

date: -

Field Edit by: L. Levin

date: Sept. 1943

Date of Mean High-Water Line Location (III):

Projection and Grids ruled by (III) J.O.N.

date: -

" " " checked by: J.O.N.

date: -

Control plotted by: W.E.Snyder, Photo.Aid

date: Feb. 1943

Control checked by: V.F.Simmons, Photo. Aid

date: " "

Radial Plot by: Tampa Office Personnel

date: March 12, 1943

" " rerun " " "

June 21, 1943

Detailed by: M. Rutkin, Jr. Engr. Draftsman

date: Mar.-July 1943

Reviewed in compilation office by: A.L.Kidwell, Jr.
J.H.S.Billmyer, Asst.Photo.Engr.

date: Aug. 1943
Topo.Engr.

Elevations on Field Edit Sheet
checked by: L. Levin

date: Sept. 1943

STATISTICS (III)

Land Area (Sq. Statute Miles); 62.2

Shoreline (More than 200 meters to opposite shore); None

Shoreline (Less than 200 meters to opposite shore); 37 miles

Number of Recoverable Topographic Stations established; -

Number of Temporary Hydrographic Stations located by radial plot: 1
Topographic

Leveling (to control contours) - miles; 56

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname
and initials (not initials only).

Remarks;

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S.285, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, drive-ways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templates) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the ~~Baltimore~~-Tampa Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

Ruthen

FIELD INSPECTION REPORT
QUADRANGLE T-8214
PROJECT CS-285
F. L. GILLEN, CHIEF OF PARTY.

1. Black-Mingo Creek runs through the southwest corner of the Quadrangle. The remainder of the Quadrangle, except for the southwest corner, is drained almost entirely by Poplar Hill Creek, which flows southward and empties into Black Mingo Creek. The southeast corner is drained southward by Brown's Branch into Black Mingo Creek.

The ground in this Quadrangle is very flat and varies in elevation from a few feet above sea level to a height of about sixty-two feet. Swamps are found only along the integral parts of the drainage system. A very narrow strip of swamp is found along Poplar Hill Branch whereas the swamp along Black Mingo Creek is about one mile wide.

Extensive farming is carried on in this Quadrangle. Comparatively this Quadrangle is densely populated. A small portion of the town of Hemingway (population 536) lies in the northern edge of the Quadrangle.

One paved road (Route No. 51) runs through the northeast corner of the Quadrangle. The remainder of the Quadrangle has many well maintained sand-clay roads. Adequate drainage has been provided for some of these roads which makes them dependable in wet weather. There are numerous sand-clay roads which can be traveled only in dry weather.

2. See the report for Quadrangle 8221.
3. See the report for Quadrangle 8237 and 8238.
- 4-5. See the report for Quadrangle 8221.
6. See the report for Quadrangle 8238.
- 7-12. Does not apply to this Quadrangle.
13. No landing field or aeronautical aids were found in this Quadrangle.
14. See the report for Quadrangle 8238.
15. The dimensions and the load limit of the bridges have been indicated on the photographs but they have not been classified.
16. See the report for Quadrangle 8238.
17. See the report for Quadrangle 8236.
18. Geographic Names is the subject of a separate report for this project. *12A*
19. The junction with Quadrangle 8213 to the east and Quadrangle 8218 to the south are both on overlapping photographs. The junctions between the

photographs were checked in the field and should be satisfactory. There is no junction with any modern survey to the west and north.

Submitted by,

Donald G. Flippo

Donald G. Flippo,
Engineering Aid.

Approved and forwarded:

F. L. Gallen

F. L. Gallen,
Chief of Party.

TO ACCOMPANY QUADRANGLES
8212, 8213, 8214
Project CS 285

4. There are four U. S. Coast and Geodetic Survey triangulation stations in or near these quadrangles. These stations are of second order accuracy and were established by J. Bowie, Jr. in 1935. Triangulation station EADDY is approximately five miles north of the north-western edge of the project. Triangulation station G-402, ecc. has been destroyed. One of the reference marks was picked. These two stations were picked as there are no marked horizontal control stations of any kind in Quadrangle 8214.

There are three marked traverse ^{lines} ~~stations~~ established by the Geological Survey that fall within these Quadrangles. One of the stations was recovered and indicated on the photograph. Since there are no marked horizontal control stations of any kind in Quadrangle 8214, fifteen points on three U. S. Geological Survey traverse lines were recovered in or near this quadrangle. No data was on hand for the quadrangle to the west of the project; therefore, no control was picked along the western edge. A photostat of one of the traverse lines is submitted with this work. The photostat with the picked points on the other traverse lines indicated on it was submitted with Quadrangle 8218. The same system was used in identifying the points on this sheet as was used on the other sheet.

Twenty-one stations of the South Carolina Geodetic Survey are in these quadrangles. All were searched for and ten have been recovered and picked on the photographs. For any information about the marks refer to the publication mentioned in the report submitted for Quadrangles 8216, 8217, 8218.

5. The vertical control is the same as described for Quadrangle 8216, 8217, 8218.

NOTE: The above will later be incorporated in the Descriptive Reports for these Quadrangles. It is submitted now to assist in plotting the control.

COMPILATION REPORT
TO ACCOMPANY
SHEET NO. T-8214

26. CONTROL

The traverse control on this quadrangle is very poor. All of the stations were established by the U. S. * Geological Survey and are of third order accuracy and less. Some of the stations were investigated in the field and several were found to have been misidentified on the field prints by the recovery party while others are obviously off in geographic position.

The following stations were not picked on the field prints by the field party and were put on the office prints in what appeared to be their most logical position. These stations are H-1, H-3, H-4, H-6, H-7, T-1, T-1-N, T-10-N, and Oaks T-2.

T-1 (Oaks P.O.) and T-1-N intersect approximately 15 to 20 meters west of the plotted positions of the stations. Copies of letters between this office and the field party attached to this report will give an idea as to what reliance can be placed upon the accuracy of the geographic positions of the control for this sheet.

None of the stations are monumented and the numbers were assigned by the recovery party, therefore they should not be shown on the final reproduction of the quadrangle.

27. RADIAL PLOT

The main radial plot, of which this sheet was a part, is discussed in the compilation report for T-8212.

28. DETAILING

No difficulty was experienced in the detailing as the photographs were clear and the field inspection was satisfactory.

29. Supplemental Data

There were no graphic control sheets by this Bureau or maps and plans by other organizations that were used to supplement the photographs.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

There were no existing topographic quadrangle maps available in the Tampa Office with which sheet T-8214 could be compared.

* There are several South Carolina Geological Survey stations on the ground.

45. COMPARISON WITH NAUTICAL CHARTS

None of the published nautical charts show the area covered by this quadrangle in detail.

Respectfully submitted,

Morris Rutkin

Morris Rutkin, Jr. Engr. Draftsman

Forwarded by: *Kenneth G. Crosby*
Kenneth G. Crosby,
Chief of Party....

C
O
P
Y

July 10, 1943

TO: Louis Levin
U. S. Coast & Geodetic Survey
P. O. Box 1436
Myrtle Beach, South Carolina

FROM: Lieut. Comdr. Kenneth G. Crosby
Tampa Photogrammetric Office

SUBJECT: Field Prints and Picking Cards - Project 285

Enclosed herewith is a transmitting letter covering several field prints and picking cards which is desired to be verified in the field for Project 285.

For your information the following notes may assist you in determining the discrepancies for the various points on the photographs.

RR 2 The identification of this point appears to be doubtful. The intersection as determined by the radial plot is about 20 meters SW from its picked position.

T-1-N Although this station is picked direct, it appears to be 15 meters off on intersection.

FIP Identification of this station is doubtful.

HO-117 The location, as determined by the radial plot, appears to be about 10 meters from the plotted position.

HO-220 This station appears to be mis-identified. The plot is about 200 meters away from its geographic position.

FIP This station appears to be mis-identified on
HO-208 the photograph due to the confusion of the road and the ditch, since it is plotted about 12 meters north of the geographic position.

T-10-N This station is badly mis-identified since its position as shown on the photograph is approximately 2100 meters away from its geographic position. It appears that there has been some confusion and the wrong road has been identified on the photograph.

H-7 This station appears to be approximately 90 meters from the published geographic position. It cannot be determined whether this is a mistake

in the actual geographic position or whether it has been mis-identified on the photograph.

H-8 The same remarks apply to this station as for H-7. It is approximately 46 meters away from the geographic position as determined by the radial plot.

It is requested that you verify these discrepancies as soon as possible and return both the photographs and picking cards to this office.

The sheets are at present being detailed and this information is necessary before the sheets are completed.

Kenneth G. Crosby,
Chief of Party....

C
O
P
Y

July 16, 1943

To: Lieut. Comdr. Kenneth G. Crosby
Tampa Photogrammetric Office

From: Louis Levin
Myrtle Beach, S. C.

Subject: Field Prints and Picking Cards

In reply to your inquiry concerning the discrepancies on the enclosed picking cards and photographs the following corrections were made:

H.O.-208 This station has been pricked directly on the photo using at least three points on the photo to check its position. It has been circled and marked with chrome yellow ink.

H0-220 " " "
H0-117 " " "
H-7 No description of this station was available to this office.

H-8 " " "
RR-2 This station was repicked and found to be less than two meters from its former position.

T-10-N Station was pricked at the wrong intersection by the recovery party. Its correct position is shown on photo #8343.

T-1-N No photographs for this area are available to this office.

All notes made on the photograph by this office are in chrome yellow ink.

Louis Levin
Photogrammetric Aid

FIELD EDIT REPORT
QUADRANGLE T - 8214
PROJECT CS-285

46. The field edit was accomplished by visual inspection making all additions and corrections on a copy of the map manuscript in the field and transferring all detail to a smooth copy while inking.

The following color scheme was adhered to:

<u>FEATURES</u>	<u>COLORS</u>
Additions, bench marks, wye level elevations and crosses	Red
Deletions	Green
Drainage features	Blue
Civil and political boundaries	Violet

47. The position and amount of detail on this map manuscript is believed to be complete and adequate.
48. The vertical accuracy tests are the subject of a special report for Project CS-285.

A horizontal accuracy test was run in this Quad..

Respectfully submitted
Louis Levin per F.L.G.
Louis Levin
Photogrammetric Aid.

Approved and forwarded

F.L. Gallen
F. L. Gallen

T-8214

No. 1

Remarks.

Decisions

1		
2		
3		Road Maps
4		"
5		"
6		"
7		"
8		"
9	Pending with U.S.G.B.	335793 D. S-6 B
10		Railway Guide
11		
12		336793
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		337793
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8214

HENRY quadrangle

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A,	B,	C,	D,	E,	F,	G,	H,	K,	
1									
Georgetown County	✓								1
Williamsburg County	✓								2
State Highway 51	✓								3
" 502	✓								4
" 175	✓								5
" 511	✓								6
" 512	✓								7
" 513	✓								8
(Pleasant Hill Road, below)									
Black Mingo Creek	✓								9
Seaboard Air Line Ry	✓								10
									11
Squirrel Run	✓								12
Squirrel Run Road	✓								13
Church Branch	✓								14
Church Bridge	✓								15
Pleasant Hill									16
(partly here) name shown Outland Quad.									
Pleasant Hill Road	✓								17
Owens	✓								18
Squirrel Run Bridge	✓								19
(text only of names report)									
Barnhill Road	✓								20
Bullard Road	✓								21
Barnhill									22
(partly here)									
Soccee Swamp									23
(stream)									
Muddy Creek Road	✓								24
Bounty Bridges									25
name in T-8213									
Soccee Swamp Bridge	✓								26
Island Branch	✓								27

No. T-8214

	Remarks	No. 2 Decisions
1		337793
2		337794
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		336794
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8214

GEOGRAPHIC NAMES											
Survey No. T-8214											
		<div>On Chart No. On previous survey On U. S. quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List</div>									
2	Name on Survey	A,	B,	C,	D	E	F	G	H	K	
	<u>Cedar Branch</u>	✓									1
	<u>Thompson Swamp Road</u>	✓									2
	<u>Mill Creek Swamp</u>	(area)		✓							3
	<u>Hemingway</u>	(partly on this quad.)					✓				4
	<u>Brunson Crossroads</u>	✓									5
	<u>Cox Road</u>	✓									6
	<u>Rogers Road</u>	✓									7
	<u>Rogers Bridge</u>	✓									8
	<u>Chandler Branch</u>	✓									9
	<u>Poplar Hill</u>	(settlement)		✓							9
	<u>Snow Bridge Branch</u>	✓									10
	<u>Poplar Hill Bridge</u>	✓									11
	<u>Caney Branch</u>	✓									12
	<u>Caney Bridge</u>	✓									13
	<u>Henry</u>	✓									14
	<u>Henry Road</u>	✓									15
	<u>Chandlers</u>	✓									16
	<u>Snow Road</u>	✓									17
	<u>Waterman Branch</u>	✓									18
	<u>Waterman Bridge</u>	✓									19
	<u>Snow Junction</u>	✓									20
	<u>Poplar Hill Branch</u>	✓									21
	<u>Snow Branch</u>	✓									22
	<u>Headless Swamp</u>	not shown									23
	<u>Campbell Swamp</u>	✓									24
	<u>Campbell Swamp Bridge</u>	✓									25
	<u>Cook</u>	✓									26
	<u>Cook Fire Lookout Tower</u>	✓									27

M 234

T-8214

No. 3
Decisions

Remarks

1		336794
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-8214

3

Name on Survey

On Chart
No.

On previous
No.

On U. S. quadrangle
Maps

From local
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

A,

B,

C,

D

E

F

G

H

K

Johnson Branch

✓

1

Walden Branch

✓

2

Burnett Swamp

✓

3

Cook Bridge

✓

4

Rome

✓

5

Rome Branch

✓

6

Poplar Hill Branch Bridge

✓

7

Hughs Branch

✓

8

Baker Branch

Stream not shown

9

Gordonville

✓

10

Hughs Bridge

✓

11

Newfound Road

✓

12

Union Crossroads

✓

13

Pittman Branch

✓

14

Pittman Bridge

✓

15

Browns Branch

✓

16

Browns Branch Bridge

✓

17

Hopewell

✓

18

19

20

21

22

23

24

25

26

27

M 234

Names underlined in red approved
by L. Heck on 12/10/43

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.
published quadrangle at 1:20,000 scale
Black and white cloth-mounted copy of the map manuscript. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For political-boundaries, woodland, marsh, and swamp limits, refer to the published quadrangle for the finally adopted positions. outlines.

Descriptive Report.

Division

Filed in the Photogrammetric Section--Surveys Branch-

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing Unit Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Film positive of the original celluloid manuscript.
(Before review)

Copies of specifications and all instructions
to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

~~Special report on field work by Commander K. T.
Adams, 1944.~~

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L.
Gallen, 1944.

Season's report on field work by Commander R. L.
Schoppe, 1944.

Delivered to the Army Map Service in accordance
with the contract

Film negatives and film positives of the color
separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the
first edition of the quadrangle with notes in red
indicating changes desirable at the next printing.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8214

HENRY QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

The horizontal accuracy test on this quadrangle is filed in the Division of Photogrammetry. See the next page.

The vertical accuracy test is shown on field photographs. It was satisfactory.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

There are no previous topographic surveys in this area.

Comparison with Nautical Charts Nos.

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

There are no nautical charts in this area.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

From the descriptive report the horizontal control on this quadrangle appears doubtful. However the horizontal accuracy test along highway 12 while somewhat below standard did not indicate serious errors in position.

Reviewed Oct. 28, 1943 By John H. Stewart
under direction of D. H. Benson (per W.H.)

Inspected by B. G. Jones B.G. Jones 5/46

Examined and approved:

K.T. Adams
Chief, ~~Survey Branch~~
Division of Photogrammetry

~~Chief, Topography Section~~

Robert W. King
Chief, Div. of Charts
Nautical Chart Branch
Raymond B. Egan
Chief, Div. of Coastal
Surveys