

8185

original

8185

Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	<u>Air Photographic, Topographic</u>
Field No.	Office No. <u>T-8185</u>
LOCALITY	
State	<u>North Carolina</u>
General locality	<u>Brunswick & Columbus Counties</u>
Locality	<u>Lewis Swamp</u>
<u>1943</u>	
CHIEF OF PARTY <u>F. L. Gallen and Fred. L. Peacock</u>	
LIBRARY & ARCHIVES	
DATE	<u>December 21, 1945</u>

DATA RECORD

T-8185

Quadrangle (II): *Lewis Swamp

Project No. (II): CS 284

Field Office:

Myrtle Beach, South Carolina

Chief of Party:

F. L. Gallen

Compilation Office:

Baltimore, Maryland

Chief of Party:

Fred. L. Peacock

Instructions dated (II III):

July 15, Oct. 19, Oct. 23,
Oct. 27, 1942~~Copy filed in Descriptive
Report No. T- (VI)~~Completed survey received in office: *Aug. 4, 1943*Reported to Nautical Chart Section: *Aug. 6, 1943*Reviewed: *Oct. 12, 1943*

Applied to chart No.

Date:

Redrafting Completed: *Jan. 14, 1944*Registered: *11/45*

Published: 1944

Compilation Scale: 1:20,000

Published Scale: 1:20,000

Scale Factor (III): None

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): PINEY, 1942

Lat.: $34^{\circ}-10'$ ^{*37.877"*} ~~*34.877"*~~
1167.1 m (681.6m)Long.: $78^{\circ}-11' 00.158''$
4.0 m (1532.6m)Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):

X = 2,247,016.90 ft.

Y = 156,491.41 ft.

*North Carolina System of Plane Coordinates (single Zone)*Military Grid Zone (VI) *Zone B*

* Name recommended by field party.

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8121-8123, Inc.	4-1-42	12:33 P.M.	1:20,000	There are no tidal waters within the limits of this map manuscript
8128-8130, Inc.	4-1-42	12:52 P.M.	1:20,000	
8443-8445, Inc.	4-6-42	Unknown	1:20,000	

Tide from (III): No tide computation necessary

Mean Range:

Spring Range:

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

Field Inspection/by: J. N. Henningsen & H. M. Eldridge date: April-May, 1943

Field Edit by: L. Levin

date: Aug, 1943

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

There is no high water line on this map manuscript as there are no tidal waters in the area.

Projection and Grids ruled by (III) John C. O'Neill date: April 6, 1943

" " " checked by: John C. O'Neill date: April 6, 1943

Control plotted by: John M. Reinoldi date: April 9, 1943

Control checked by: Henry P. Eichert date: April 10, 1943

Radial Plot by: Joseph Steinberg & J. Edward Deal, Jr. date: May, 1943

Detailed by: A. J. Gibson date: June 1, 1943 to July 30, 1943

Reviewed in compilation office by: Henry P. Eichert date: July 26, to July 30, 1943

Elevations on Field Edit Sheet checked by: L. Levin

date: Aug 14, 1943

STATISTICS (III)

Land Area (Sq. Statute Miles): 61

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

Shoreline (Less than 200 meters to opposite shore): None

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: Unknown - 27 m

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:

FIELD INSPECTION REPORT
QUADRANGLE T-8185
PROJECT CS-285
F. L. GALLEN, CHIEF OF PARTY

1. The area covered by this quadrangle in general is wild, undeveloped land. The north section includes an area known as "Little Green Swamp". This area is high and flat and poorly drained. The remainder of the area is quite hilly and very well drained. Gum and Cypress are found in the swampy areas, and pine and oak on the higher ground.

Drainage for this area follows a well defined pattern. Bee-tree Swamp, which heads in the Little Green Swamp, flows in a north-westerly direction and leaves the quadrangle near the northwest corner. Town Creek, which heads in the Big Green Swamp, carries the heaviest load of the drainage. This stream flows in a southeasterly direction leaving the quadrangle on the east side. Green Hill Swamp, Lewis Swamp, Scraphole Branch and Tomkins Branch, which are all tributaries to the Town Creek, make up the remainder of the drainage.

Several bays, which are flat wet-weather swamps, appear in different sections of the quadrangle and the drainage from them has been delineated on the photographs.

2. The field inspection is believed to be complete except for the classification of bridges, which will be done by the field edit party.

3. Dark tones on the photographs indicate pine trees on the higher ground, but they may also indicate heavy brush in the swampy areas. Several of these areas have been outlined on the photographs but not all of them. Lighter tones indicate deciduous trees as in swamps.

4. See the report for T-8184.

5. See the report for T-8184.

6. Contouring was accomplished by a four-man party using the regular equipment.

All contouring was done directly on the photographs and the orientation taken from identifiable points and also by using the declinoire when traverses were run through the wooded areas. The hand level was used where the area was too densely wooded for planetable methods. Elevations were set on the tops and ends of the ridges and considerable contours were put in by the stereoscope. Some of this contouring was checked and it was found to be within the accuracy required.

All streams were located by using the stereoscope and checked by field inspection.

A declination was established on all the photographs by using a long straight stretch of road near the center of the photograph.

- 7-13. These items do not apply to this Quadrangle.
- 14. See the report for T-8184.
- 15. See the report for T-8184.
- 16. See the report for T-8184.
- 17. This Quadrangle lies in Columbus and Brunswick Counties, North Carolina, and their boundaries have been indicated on the photographs. Political boundaries will be added by the field edit party.
- 18. See the report for T-8184.
- 19. There are no surveys to the north of this area.

Junctions with Quadrangle T-8184 on the east have been made and checked in the field.

Junctions with Quadrangle T-8191 will be discussed in the report for that Quadrangle.

Junctions with Quadrangle T-8186 on the west have been made and checked in the field.

Respectfully submitted,

Henry M. Eldridge
Henry M. Eldridge,
Sr. Photogrammetric Aid.

Approved and forwarded:

F. L. Gallen
F. L. Gallen,
Chief of Party.

26 CONTROL:

Nine U. S. Coast and Geodetic Survey triangulation stations were used to establish secondary and detail points for this map manuscript. Three of these triangulation stations fall within the limits of this map manuscript. They are:

TOWN, 1942
SHILOH, 1942
PINEY, 1942

The six remaining triangulation stations lie just outside the limits of this map manuscript. They are:

ACME MFG. CO. NORTH SILVER TANK, 1942
ACME MFG. CO. SOUTH SILVER TANK, 1942
DELCO, 1942
MACO, 1942
BYRD, 1942
GROVE, 1942

In order to assure good identification of the horizontal control on the office photographs, the field inspection party established a Field Inspection Station near the triangulation station, PINEY, 1942. This Field Inspection Station is shown with a 2.5 mm circle in orange ink on the glossy side of the map manuscript.

27 RADIAL PLOT:

The radial plot for this map manuscript is described in Section 4 of the descriptive report of the radial plots for Projects CS-275 and CS-284, which has been submitted to the Washington Office.

28 DETAILING:

Nine lens unmounted photographs were used for the compilation of this map manuscript.

The field inspection for this map manuscript was satisfactory. All drainage and the limits of swamp and low ground areas, as field inspected, were verified on the office photographs by stereoscopic examination, and only slight changes were made. These streams and swamp areas were detailed directly from the field inspection photographs after common detail control points had been pricked on them.

The field inspection data, furnished the compilation office, did not include the limits of some swamp areas. Where this data was lacking the limits of swamp areas were determined by stereoscopic examination of the office photographs. The limits of swamp areas furnished by field inspection data have been outlined with a dashed black acid ink line. The limits of swamp areas interpreted by the compilation office by use of the stereoscope have not been outlined.

29 SUPPLEMENTAL DATA:

No previous surveys covering the area of this map manuscript were available to the compilation office. Blue line prints of the North Carolina State Highway and Public Works Commission maps of Brunswick and Columbus Counties were furnished the compilation office by the field party.

PARAGRAPHS 30 to 35, INCLUSIVE, DO NOT APPLY TO THIS MAP MANUSCRIPT.

36 LANDING FIELDS AND AERONAUTICAL AIDS:

There is no data available to the compilation office regarding landing fields or aeronautical aids.

37 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared to accompany this map manuscript. On it are shown appropriate notes calling attention to roads, unclassified on the field inspection photographs, and to the location of probable bridges or culverts. Several other notes believed to be useful to the field edit party during the field edit are included. A set of general notes for use in interpreting the symbols used on this map manuscript are also shown. The numbers of all bench marks are shown for the use of the Baltimore compilation office in scaling their geographic positions from the red-line print.

38 GEOGRAPHIC NAMES:

A list of undisputed, disputed and recommended geographic names has been prepared to accompany this map manuscript. These geographic names were furnished the compilation office by the field inspection party and were shown on copies of the North Carolina State Highway and Public Works Commission maps of Brunswick and Columbus Counties. Only the undisputed names have been shown on the map manuscript. L.H.

The name of this $7\frac{1}{2}$ " quadrangle "LEWIS SWAMP" was recommended by the unit of the field inspection party, which was responsible for the inspection and contours, and not by the Geographic Name inspection unit of the field inspection party.

39 HORIZONTAL ACCURACY:

The Horizontal accuracy of this map manuscript is believed to be within the limits set forth for well-defined and less well-defined points of detail, in the instructions for Project CS 284, Paragraph 59, dated July 15, 1942.

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetric detail as presented on this map manuscript is believed to be complete, but is subject to field edit for corrections, additions and deletions.

41 JUNCTIONS:

On the North no contemporary Survey was available to the compilation office for junction purposes.

The following satisfactory junctions have been completed with this map manuscript.

On the East, with Map Manuscript for Survey No. T-8184
On the South, with Map Manuscript for Survey No. T-8191
On the West, with Map Manuscript for Survey No. T-8186

42 REMARKS:

The description as prepared by the field inspection party adequately describes the area covered by this map manuscript.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There are no topographic Quadrangles available to the compilation office for comparison with this map manuscript.

A general comparison was made with copies of the North Carolina State Highway and Public Works Commission Map of Brunswick and Columbus Counties, Scale 1"=1 mile. Due to absence of minute detail on the county maps an accurate comparison could not be made. Common roads were in fair agreement.

45 COMPARISON WITH NAUTICAL CHARTS:

There are no nautical charts covering the area of this map manuscript.

Respectfully submitted,
July 30, 1943

Ambrose J. Gibson

Ambrose J. Gibson
Air Photo. Observer

Map Manuscript, Discrepancy Overlay
and Descriptive Report Reviewed
by:

Henry P. Eichert

Henry P. Eichert
Jr. Photogrammetric Engineer

Compilation of Map Manuscript
Supervised by:

J. Edward Deal, Jr.

J. Edward Deal, Jr.
Asst. Photogrammetric Engineer

and

Joseph Steinberg

Joseph Steinberg
Asst. Photogrammetric Engineer

Approved & Forwarded:
August 3, 1943

Fred. L. Peacock

Fred. L. Peacock
Commander, C & G Survey
Officer-in-Charge
Baltimore Photogrammetric Office

GEOGRAPHIC NAMES

Undisputed

- | | |
|-----------------------------|------------------------|
| ✓ Batarora | ✓ Old Cumbee Place |
| ✓ Batarora Branch | ✓ Piney Grove |
| ✓ Beaver Dam Swamp | ✓ Rabontown |
| ✓ Big Bay Ridge | ✓ Ready Branch Opening |
| ✓ Big Bay Road | ✓ Redwater Bay |
| ✓ Brair ^{ie} Patch | ✓ Rock Creek |
| ✓ Cherry Tree Swamp | ✓ Russells Creek |
| ✓ Double Bridges | ✓ Sand Hill |
| ✓ Flowers Corner | ✓ Tompkin Branch |
| ✓ Gapway Creek | ✓ Town Creek Bridge |
| ✓ Gapway Ridge | ✓ Turkey Branch |
| ✓ Gapway Swamp | ✓ New Hope Road |
| ✓ Hood Creek | ✓ Moon I. (?) |
| ✓ Lewis Branch | ✓ Green Swamp |
| ✓ Lewis Swamp | ✓ Moco Road |
| ✓ Lewis Swamp Road | |
| ✓ Little Green Swamp | |
| ✓ Livingston Creek | |
| ✓ Livingston Creek Bridge | |
| ✓ Mode's Island | |

GEOGRAPHIC NAMES

Disputed

Recommended

✓ Big Bay

✓ Town Creek

Disputed

Wide Bay

Rattlesnake Branch

FIELD EDIT REPORT
T-8185
PROJECT CS-284

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

The following color scheme was used:

FEATURES	COLORS
Additions, bench marks, wye level elevations and crosses	RED
Deletions	GREEN
Drainage features	BLUE
Political boundaries	VIOLET
Contours and planetable elevations	BROWN

47. The position and amount of detail on this map manuscript is believed to be complete and adequate.
48. Horizontal accuracy tests were run in Quads. T-8184 and T-8191

Vertical accuracy tests are the subject of a special report for Project CS-284.

Submitted by

Louis Levin per F.A.?
Louis Levin
Photogrammetric Aid

Approved and Forwarded

F. L. Gallen
F. L. Gallen
Chief of Party

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		
4		
5		
6		341781
7		"
8		"
9	On this quadrangle, name is applied only to northern of two roads so named on the Brunswick Co. names sheet.	"
10		"
11		"
12		"
13		"
14	Pending with USGB	341779
15		341781
16		"
17		"
18		"
19		"
20		"
21		"
22	On names sheet but not on compilation	341782
23		341783
24		341781
25		341782
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8185

LEWIS SWAMP quadrangle

Name on Survey

	A.	B.	C.	D.	E.	F.	G.	H.	K.	
	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		
Brunswick County	✓									1
Lockwoods Folly Twp	✓									2
Ransom Twp	✓									3
Town Creek Twp	(from T-8184)									4
	✓									5
New Hope Road	✓									6
Cherry Tree Swamp	✓									7
Russells Creek	(stream)									8
Lewis Swamp Road	✓									9
Sand Hill	✓									10
Double Bridges	✓									11
Redwater Bay	✓									12
Rock Creek	✓									13
Town Creek	✓									14
Lewis Swamp	✓									15
Beaverdam Swamp	✓									16
Turkey Branch	✓									17
Lewis Branch	✓									18
Tompkin Branch	✓									19
Piney Grove	✓									20
Rabontown	✓									21
Moon Island	✓									22
Green Swamp	(part of large area)									23
Flowers Corner	✓									24
Old Cumbee Place	✓									25
Ready Branch Opening	✓									26
Modes Island	✓									27

Remarks

Decisions

	Remarks	Decisions
1	Preferred spelling	341781
2		341782
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		342781
12		"
13		"
14		"
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GEOGRAPHIC NAMES

Survey No. T-8185

g	Name on Survey	Source									
		A	B	C	D	E	F	G	H	K	
		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		
	Brier Patch	✓									1
	Town Creek Bridge	✓									2
	Big Bay	✓									3
	Big Bay Road	✓									4
	Gapway Ridge	✓									5
	Gapway Creek	✓									6
	Gapway Swamp	✓									7
	Big Bay Ridge	✓									8
	Livingston Creek	✓									9
	Livingston Creek Bridge	✓									10
	Little Green Swamp	✓									11
	Batarora	✓									12
	Batarora Branch	✓									13
	Hood Creek	✓									14
	Maco Road	✓									15
											16
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HECK 07 11/22/43

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.

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.

Original celluloid manuscript.

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.

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

This quadrangle, together with similar adjoining maps produced under Project C.S. 284, 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.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8185

LEWIS SWAMP 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

There ^{were} ~~are~~ no horizontal or vertical accuracy tests ^{on} ~~in~~ this ^{quadrangle} ~~area~~. For the nearest horizontal accuracy test see the descriptive report for survey T-8184.

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:

Only changes of a minor nature were necessary during the review of this map manuscript.

Reviewed Sept 1943
under direction of D. H. Benson

By M. U. Parker
per W.M.

Inspected by B. G. Jones ^{B.G. Jones 11/16/45}

Examined and approved:

K. T. Adams
Chief, Surveys-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