

8968

Diag. Cht. No. 537

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-20(47) Office No. T-8968

LOCALITY

State NORTH CAROLINA

General locality PALICO RIVER

Locality PINETOWN

1948-1950

CHIEF OF PARTY

E. R. McCarthy, Chief of Field Party.

A. L. Wardwell, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE December 12, 1952

Applied to 537 Recons 8/30/56 - JFW

DATA RECORD

T - 8968

Project No. (II): Ph-20(47)

Quadrangle Name (IV):

Field Office (II): Washington, N. C.

Chief of Party: E. R. McCarthy

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): 23 July 1948

Copy filed in Division of
Photogrammetry (IV)

Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): 7-11-50

Date reported to Nautical Chart Branch (IV): 7-13-50

Applied to Chart No.

Date:

Date registered (IV): 5 Feb 1952

Publication Scale (IV): 1: 24000

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): REKA, 1933

Lat.: 35° 32' 09" .970(307.3m)

Long.: 76° 50' 38" .369 (966.6m)

Adjusted

~~Uncorrected~~

Plane Coordinates (IV): Lambert
(Not computed)

State: N. Car.

Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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

[illegible]

Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): J. R. Smith

Date: 6 April 1949

Planetable contouring by (II): J. R. Smith

Date: 4 April 1949

Completion Surveys by (II): James E. Hundley

Date: 17 Nov 1950

Mean High Water Location (III) (State date and method of location):
29 Mar. 48

Air photo. compilation

Projection and Grids ruled by (IV): W.E.W. (Washington office)

Date: 6 June 48

Projection and Grids checked by (IV): W.E.W. (" ")

Date: 6 June 48

Control plotted by (III): R. R. Wagner

Date: 15 Oct. 48

Control checked by (III): B. F. Lampton

Date: 26 Oct 48

~~Radial Plot or Stereoscopic~~

Date: 30 Dec. 49

~~Control extension~~ by (III): M. M. Slavney

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Inapplicable

Date:

Contours

Manuscript delineated by (III): W. W. Dawsey

Date: 22 May 50

Photogrammetric Office Review by (III): J. A. Giles

Date: 3 June 50

Elevations on Manuscript

checked by (II) (III): W. W. Dawsey

Date: 20 Mar. 50

Camera (kind or source) (III): U.S.C.&G.S. 9 Lens $8\frac{1}{4}$ " Focal Length

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
22146	29 Mar. 48	12 54	1:20,000	No Periodic * Tide
22147	29 Mar. 48	12 55	"	
22148	29 Mar. 48	12 56	"	
22178	29 Mar. 48	13 34	"	

Tide (III)

Reference Station: ^{appreciable} No periodic tide *

Subordinate Station:

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): Everett H. Ramey

Date: 8 Oct 1951

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 60.6

Shoreline (More than 200 meters to opposite shore) (III): 1.4

Shoreline (Less than 200 meters to opposite shore) (III): 7

Control Leveling - Miles (II): 56.5

Number of Triangulation Stations searched for (II): 8

Recovered: 8

Identified: 4

Number of BMs searched for (II): 11

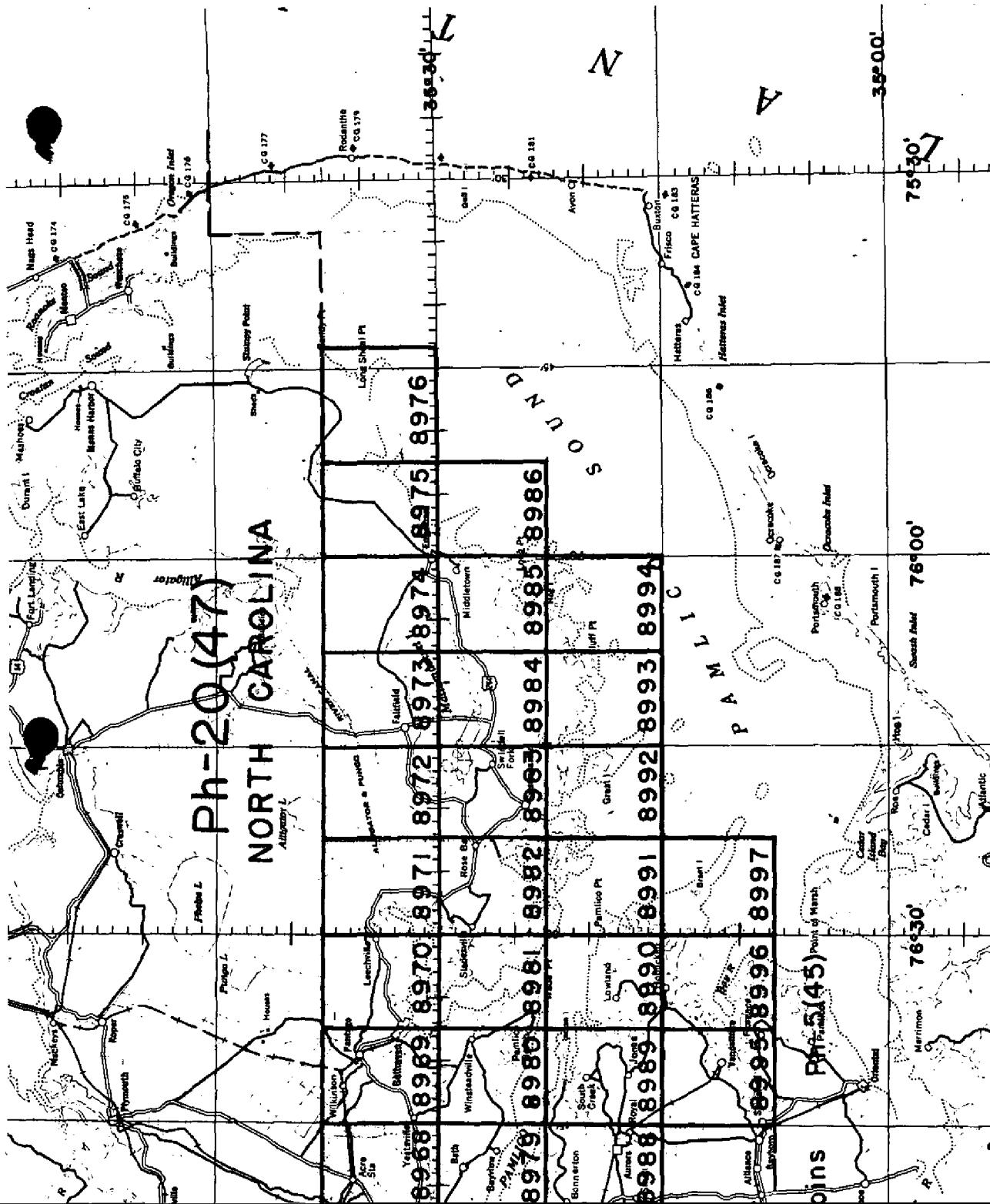
Recovered: 10

Identified: 10

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): None

Remarks: * See sub-heading 68, this report.

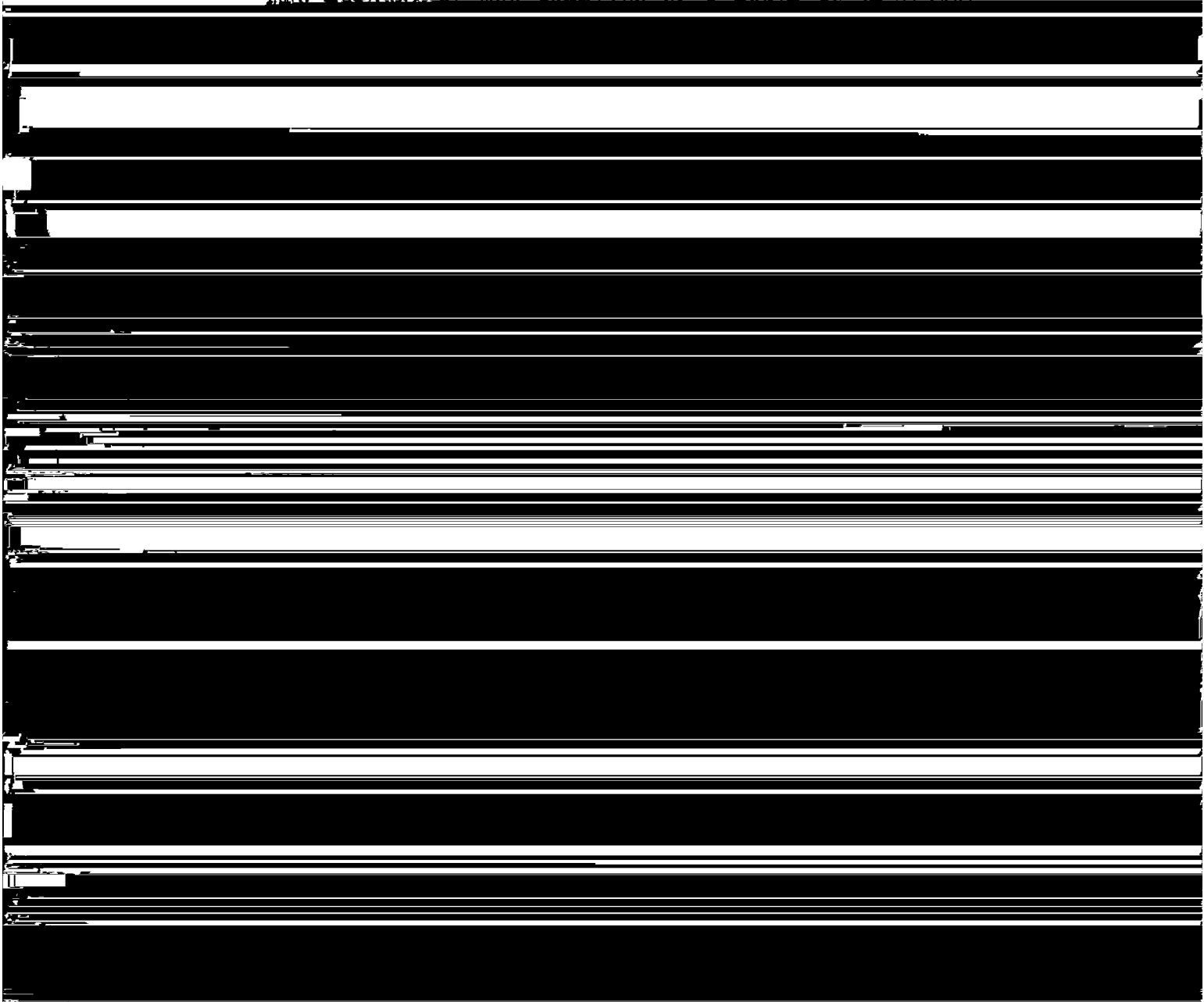


Summary to Accompany T-8968

Topographic map T-8968 is one of 32 similar maps in project Ph-20(47) and is in the northwestern portion of the project. It covers land area in the vicinity of Pinetown, North Carolina and the head of Bath Creek, a tributary of the Pamlico River.

Project Ph-20(47) is a graphic compilation project. The field operations preceding compilation included complete field inspection, the recovery of horizontal control and the delineation of contours on the photographs by planetable methods.

The manuscript was compiled at a scale of 1:20,000.



FIELD INSPECTION REPORT
 Quadrangle T-8968
 35 30.0' /76 45.0' /7.5

E. R. McCarthy, Chief of Party

The field work for this quadrangle was done in accordance with the Director's instructions, Project Ph 20 (47), field, dated 23 July 1948, and other instructions as noted herein. The field work was accomplished by the following personnel:

<u>Name and Title</u>	<u>Phase</u>	<u>Started</u>	<u>Completed</u>
M. A. Stewart Cartographic Sur. Aid	Third Order Levels	8-30-48	9-1-48
J. R. Smith Cartographic Sur. Aid	Fly Levels	1-10-49	1-18-49
	Contours	1-19-49	4-4-49
	Field Inspection	1-19-49	4-6-49
H. R. Spies Cartographic Sur. Aid	Recovery & Identification	1-19-49	3-1-49

1. DESCRIPTION OF THE AREA

This quadrangle is located in the northern part of Beaufort County, North Carolina, in an area where agriculture is the principal industry. The major part of the land is under cultivation, the principal concentration being in the northeastern portion. One area, located in the northwestern part, is heavily wooded and comprises a portion of the southern section of the Dismal Swamp. A few small farms and the village of Pinetown constitute the only break in the swamp region.

There are two small unincorporated villages within the limits of this quadrangle. Pinetown, in the northwestern section, and Terra Ceia, in the northeast. *See sub-heading 67, this report.*

Two main highways and one railroad traverse the area. State Highway #32 extends north-south through the eastern part, and U. S. Highway #264 cuts east-west through the southern portion. A branch of the Norfolk & Southern Railroad runs in an east-westerly direction across the northern end of the quadrangle. Secondary roads adequately serve the area.

2. COMPLETENESS OF FIELD INSPECTION

Field inspection of this quadrangle is complete and it is believed that all features are adequately classified and identified on the photographs.

3. INTERPRETATION OF THE PHOTOGRAPHS

No difficulties were encountered in the interpretation of the photographs.

4. HORIZONTAL CONTROL

All known horizontal control was recovered and Forms 526 submitted. A sufficient number of stations were identified to control the radial plot. No supplemental control was established.

5. VERTICAL CONTROL

A third order level line was run through the quadrangle by Mr. M.A. Stewart, Cartographic Survey Aid, along the road connecting Pinetown and Terra Ceia, and Bench Marks were established at one mile intervals.

Fifty-six and one half miles of fly levels were run to furnish supplemental control for contouring.

6. CONTOURS AND DRAINAGE

Contouring was done directly on the 1:20000 nine-lens photographs, using a five foot contour interval. The work was executed by planetable methods supplemented by hand levels.

Elevations in the quadrangle range from 1 to 48 feet, the highest being in the northwestern part. The general slope of the land is south-eastward.

The drainage in the area is toward and through Acre Swamp, which drains to the southeast, thence to Bath Creek - an arm of the Pamlico River. A few drainage canals in the northeastern part of the quadrangle carry water eastward into a stream called Broad Creek, which creek is outside the limits of the quadrangle.

7. MEAN HIGH-WATER LINE

The mean high-water line shows clearly on the photographs.

8. LOW-WATER LINE

The mean low-water line coincides with the mean high-water line, as there is no periodic tide. *See sub-heading 68, this report.*
~~appreciable~~

9. WHARVES AND SHORE LINE STRUCTURES

There are no wharves or shore line structures in this quadrangle. Except in the upper limits of Bath Creek where they show clearly on the photographs.

10. DETAILS OFFSHORE FROM THE HIGH-WATER LINE

There are no discernible objects offshore in this quadrangle.

11. LANDMARKS AND AIDS TO NAVIGATION

A fire lookout tower located near Everett Crossroads is not a land mark for charts.

12. HYDROGRAPHIC CONTROL

No marked stations were established, as the interval between existing control stations is less than two miles.

13. LANDING FIELDS AND AERONAUTICAL AIDS

There are no landing fields nor aeronautical aids within the quadrangle.

14. ROAD CLASSIFICATION

All roads were classified in accordance with Photogrammetry Instructions No. 10, dated 14 April 1947, as amended 24 Oct. 1947.

15. BRIDGES

There are no bridges over navigable waters within the quadrangle.

16. BUILDINGS AND STRUCTURES

The field inspection of buildings and structures was completed in accordance with Photogrammetry Instructions No. 29, dated 1 October, 1948.

17. BOUNDARY MONUMENTS AND LINES

For description of all boundary monuments and lines in this project, see special boundary report that will be submitted at a later date by Mr. A. J. Wraight,

See sub-headings 57 and 67, this report.

18. GEOGRAPHIC NAMES

This will be the subject of a special report which will be submitted at a later date by Mr. A. J. Wraight, *filed in Geographic Names Section, Div. of Charts.*

19. TOPOGRAPHIC STATIONS

A fire lookout tower was located in the west central portion of the quadrangle. Form 524 is submitted.

This tower is not recommended for charting.

Approved
12 May 1949
E. R. McCarthy
E. R. McCarthy
Chief of Party

12 May 1949
Submitted by:
John R. Smith
John R. Smith
Cartographic Survey Aid

JS

Photogrammetric Plot Report

This report is filed as part of the Descriptive Report for T-8967 and covers the photogrammetric plot for maps T-8966 to T-8968 inclusive and T-8977 to T-8979 inclusive.

MAP T. 8968

PROJECT NO Ph-20(47)

SCALE OF MAP 1: 20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
								FORWARD	(BACK)	FORWARD	(BACK)
REKA 1933	Sp. Pub. No. 192 P. 65	N.A. 1927	35 32	09.970				307.3	(1541.9)		
PRIMARY TRAVERSE STATION NO. 1 (USGS)	USGS Bunyon Quad.	"	76 50	38.369				966.6	(544.9)		
REKA REF. 2 (USE)	USE Pinetown	"	35 36	36.9				1137.2	(711.9)		
			76 51	52.2				1313.8	(196.4)		
			35 32	05.242				161.6	(1687.6)		
			76 50	35.993				906.7	(604.8)		
PRIMARY TRAVERSE STATION No. 8. (USGS)	U.S.G.S.	"	35 31	31.6				973.9	(875.3)		
			76 52	21.7				546.7	(965.0)		
PIPE STA C-1 1942 (USE),	U.S.E. Pinetown A 5	"	35 31	24.739				762.4	(1086.7)		
			76 50	58.646				1477.6	(34.1)		
PIPE STA C-2 1942 (USE),	U.S.E. Pinetown A-5	"	35 31	21.790				671.5	(1177.6)		
			76 50	33.874				853.5	(658.3)		
	G.P. P. 263	"	35 30	42.506				1310.0	(539.1)		
TAN KARD, 1935	G.P. P. 264	"	76 48	22.996				579.5	(932.5)		
			35 29	57.169				1761.8	(87.2)	ON T-8979	
STEIL, 1935			76 48	50.227				1265.9	(246.3)		
PIPE STA D-1 1942 (USE),	USE Pinetown A 6	"	35 31	36.169				1114.7	(734.4)		
			76 47	22.442				565.4	(946.3)		
PIPE STA D-2 1942 (USE),	Pinetown A 6	"	35 31	45.347				1397.5	(451.6)		
			76 46	54.902				1383.2	(128.4)		
SUB. PT. REKA, 1933	Comp.		35 32	22.082				680.5	(1168.6)		
			76 50	41.424				1043.5	(467.9)		

1 FT. = 3048006 METER
COMPUTED BY: B.F. Lampton

DATE 22 September 1948

CHECKED BY: R.R. Wagner

DATE 23 Sept. 1948

N. 2388-12

10

11

COMPILATION REPORT T-8968

PHOTOGRAMMETRIC PLOT REPORT

This report will be submitted with T-8967.

31. DELINEATION

Compilation was by the graphic method.

The scale of none of the photographs was good, necessitating the use of the projector for the entire compilation.

The field inspection was adequate along the shoreline and most of the inshore work. Where field inspection was neglected or discrepancies seen, notes to that effect were shown on the discrepancy overlay for the attention of the field editor. *See Field Edit Report (section of this report)*

32. CONTROL

The density and placement of Secondary Control was such that no difficulty was encountered in cutting in detail points.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

No difficulty other than poor scale of photographs, was encountered in the delineation of the contours. In certain cases contours were shifted slightly to agree with berms, and minor changes were made to give more character. The inshore drainage was delineated as viewed on the office photographs, and where streams could not be seen due to the dense swamp growth, these were delineated as shown on the field prints. Where any part of these streams could be discerned by the use of the stereoscope, they were shown accordingly. In some instances, this did not agree with the field inspection. These cases have been referred to the field editor for clarification.

35. SHORELINE AND ALONGSHORE DETAIL

No difficulty was encountered in the delineation of the shoreline, the inspection of which was adequate.

36. OFFSHORE DETAIL

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

One card, Form 524* is being submitted. This station is too far inland for use by the hydrographer and is not listed under Item 49.

* Noted under sub-heading 19 of this report.

39. JUNCTIONS

T-8967 to the west: in agreement.
T-8979 to the south: in agreement.
T-8969 to the east: not compiled.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement. See sub-headings 53 & 66, this report.

46. COMPARISON WITH EXISTING MAPS

None available. See sub-headings 62 & 63, this report.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 537, scale 1:40,000, edition of Sept. 1937 bearing a print date of 12 Jan. 1948 and found to be in good agreement.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved and Forwarded

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

W. W. Dawsey
W. W. Dawsey
Cartographic Photo. Aid.

Em

48. GEOGRAPHIC NAME LISTACRE BRIDGE ✓ACRE STATION ✓ACRE SWAMP ✓Acres ChurchBATH CREEK ✓BATH TOWNSHIP ✓BEAUFORT COUNTY ✓BECKWITH ✓BOYD CREEK ✓BOYD POINT ✓BOYDS FORK ✓BROAD CREEK ROAD ✓EVERETTS CROSSROADS ✓Everett Community HouseEverett ChurchFORK SWAMP ✓FREE UNION CHURCH ✓Everett Fire TowerGAYLORD ✓HARVEY CREEK ✓HUNTERS BRIDGE ✓HUNTERS BRIDGE CHURCH ✓JACKS BRANCH ✓LEEWARD SEINE BEACH ✓LONG ACRE TOWNSHIP ✓NORFOLK SOUTHERN ✓NORTH CAROLINA ✓RailwayCotticant title in Railway GuideODEN MILL ✓PANTEGO TOWNSHIP ✓PINETOWN ✓PUNGO CREEK (name o.k.)

Feature not on map. ETR

PUNGO SWAMP ✓RIP HIGHWAY ✓RODMANS QUARTER ✓RODMANS QUARTER ROAD ✓RODMANS QUARTER SCHOOL ✓ROWLAND CREEK ✓SHILOH CHURCH ✓STATE NO. 32 ✓

48. GEOGRAPHIC NAME LIST (Continued)

TANKARD CREEK ✓

TERRA CEIA ✓

TERRA CEIA ROAD ✓

U. S. NO. 264 ✓

VAN SWAMP ✓

WALLA WATTA ✓

WHITE PLAIN CHURCH ✓

Terra Ceia Christian Church

Terra Ceia Reform^{Christian} Church

Names underlined in red
are approved. 9-10-51
L. Heck

FIELD EDIT REPORT - T-8968

51. METHODS

The field edit of this quadrangle was accomplished by traversing, via truck, all possible roads and walking to other areas in which the reviewer requested information, or for a general check on the adequacy of the map compilation.

Corrections and additions were made by standard survey instruments in conjunction with visual inspection.

Corrections and additions have been noted on the field edit sheet, geographic names print and on two sheets of tracing paper. All deletions have been noted on the field edit sheet.

The reviewer's questions are answered on the discrepancy prints whenever possible.

A legend appears on the field edit sheet indicating the different colored inks used for the various additions, corrections and deletions.

52. ADEQUACY OF COMPILATION

Also sub-heading 66, this report

The map compilation is good and will be complete after field edit data has been applied.

53. MAP ACCURACY

The accuracy of the map is good. Minor discrepancies in contouring were corrected in the northeastern portion of this area. Corrections have been indicated on two sheets of tracing paper.

54. RECOMMENDATIONS

No comment.

55. EXAMINATION OF PROOF COPY

It is believed that Mr. W. C. Rodman, registered surveyor of Washington, N. C., is best qualified to examine a proof copy of this work.

56. Ref. Item 38 - Compilation Report

The Form 524^{*} mentioned as being submitted, was not received by the field editor for investigation.

** Filed in General Files, Div. of Photogrammetry.*

57. BOUNDARY, MONUMENTS AND LINES

Refer to item 17 - Field Inspection Report.

The township boundary lines of Long Acre, Bath and Pantego as originally shown are erroneous. The corrected township boundary lines for aforementioned townships have been indicated, in red ink, on the field edit sheet.

The corrected township boundary lines shown on the field edit sheet were taken from a map, certified to be correct, held by Mr. D. E. Redditt of Washington, N. C., tax collector for Beaufort County, N. C.

See sub-heading 67, this report.

58. JUNCTIONS

A satisfactory junction has been made with Quadrangle T-8979 on the south. Junction with adjoining quadrangles on the east and west will be made at a later date from the field editor's work sheet, held by the field editor. Junction with Quadrangle Plymouth, 1942 - 1:125,000 could not be checked as the Plymouth quadrangle was not available.

17 November 1950

Submitted by:

James E. Hundley
James E. Hundley
Cartographer

1 December 1950

Approved by:

Harry F. Garber
Harry F. Garber
Chief of Party

50 PHOTOGRAMMETRIC OFFICE REVIEW

T- 8968

1. Projection and grids JG 2. Title JG 3. Manuscript numbers JG 4. Manuscript size JG

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) JG ~~XXXXXXXXXXXXXXXXXXXX~~ 8. Bench marks JG ~~XXXXXXXXXXXXXXXXXXXX~~ 10. Photogrammetric plot report JG 11. Detail points JG

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline JG 13. Low-water line JG 14. Rocks, shoals, etc. JG ~~XXXXXXXXXXXX~~ 16. ~~XXXXXXXXXXXX~~ 17. ~~XXXXXXXXXXXX~~ 18. Other alongshore physical features JG 19. Other along-shore cultural features JG

PHYSICAL FEATURES

20. Water features JG 21. Natural ground cover JG 22. Planetable contours JG ~~XXXXXXXXXXXX~~ ~~XXXXXXXXXXXX~~ 24. Contours in general JG 25. Spot elevations JG 26. Other physical features JG

CULTURAL FEATURES

27. Roads JG 28. Buildings JG 29. Railroads JG 30. Other cultural features JG

BOUNDARIES

31. Boundary lines JG ~~XXXXXXXXXXXX~~

MISCELLANEOUS

33. Geographic names JG 34. Junctions JG 35. Legibility of the manuscript JG 36. Discrepancy overlay JG 37. Descriptive Report JG 38. Field inspection photographs JG 39. Forms JG

40. Jesse A. Giles *Jesse A. Giles* William A. Rasure *William A. Rasure*
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

REVIEW REPORT
Topographic Map T-8968

8 October 1951

62. Comparison with Registered Topographic Surveys:

T-1210	1:20,000	1871
T-6414	1:10,000	1935

This survey is to supersede these prior surveys for nautical charting purposes for common areas. Except for cultural changes no major disagreement was noted.

63. Comparison with Maps of Other Agencies:

Plymouth, N. C. (USE) 1:125,000 1943

No important differences were noted.

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

537	1:40,000	1937	corr. to 12 Jan. 1948
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No important differences were noted.

68. Low-Water Line:

Because Bath Creek, mapped in part by this survey, is part of the Pamlico River estuary, it is believed that some periodic tide may exist within the mapped area. Sub-heading 8 and the data record ~~would then~~ read "no appreciable periodic tide". ^{have been changed to}

Reviewed by:

Everett H. Ramsey
Everett H. Ramsey

Approved:

S. V. Griffith 3/18/52
Chief, Review Section
Div. of Photogrammetry

H. Edmiston
Chief, Nautical Chart Branch
Division of Charts ^{CRJ}

O. S. Reading
Chief, Div., Photogrammetry
2R7

Carl O. Heston
Chief, Div., Coastal Surveys
CH.