

8967

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-8967

LOCALITY

State NORTH CAROLINA

General locality BEAUFORT COUNTY

Locality BUNYAN

194 5²

CHIEF OF PARTY

E.R. McCarthy, Chief of Field Party.

A.L. Wardwell, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE May 22, 1953

Applied to 537 Permit 8/30/56 - JFW

DATA RECORD

T-8967

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, Florida**

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): **OCT 24 1950** Date reported to Nautical Chart Branch (IV): **OCT 30 1950**

Applied to Chart No.

Date:

Date registered (IV): **4 Feb 1952**

Publication Scale (IV): **1:24,000**

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): **GARRIS, 1935** ✓

Lat.: **35°30'48"338 (1489.7m)** Long.: **76°57'52"112 (1313.1m)** ~~(1313.2m)~~ Adjusted ✓
~~Unadjusted~~

Plane Coordinates (IV): **North Carolina**

State:

Zone:

Y=647,982.06 Feet

X=2,605,710.53 Feet

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.

DATA RECORD

Field Inspection by (II): Milton B. Cram, Cartographer
 Irving Zirpel Jr., Cartographic Survey Aid
 Egmont Horn, Cartographic Survey Aid

Date: Dec. 48 - March 49
 Mar. 49 - April 49
 April 49 - May 49

Planetable contouring by (II):

Milton B. Cram, Cartographer
 Irving Zirpel Jr., Cartographic Survey Aid
 Egmont Horn, Cartographic Survey Aid

Date:
 Dec. 48 - March 49
 Mar. 49 - April 49
 April 49 - May 49

Completion Surveys by (II): James E. Hundley

Date: 19 January, 1951

Mean High Water Location (III) (State date and method of location): ~~May, 1949~~

~~Air Photo Compilation~~

Identified on photographs taken 1948

Projection and Grids ruled by (IV): W. E. W. (Washington Office) Date: 1 June 1948

Projection and Grids checked by (IV): W. E. W. (" ") Date: 1 June 1948

Control plotted by (III): R. R. Wagner Date: 15 Oct. 1948

Control checked by (III): B. F. Lampton Date: 26 Oct. 1948

Radial Plot or Stereoscopic
~~Cartographic~~ by (III):

M. M. Slavney

Date: 29 Dec. 1949

Stereoscopic Instrument compilation (III):
 Planimetry
 Contours

Inapplicable

Date:

Date:

Manuscript delineated by (III): R. Dessett

Date: 8 March 1950

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

Date: 27 April 1950

Elevations on Manuscript
 checked by (III):

R. Dessett

Date: 14 Feb. 1950

Camera (kind or source) (III): U S C & G S 9 lens, 8 $\frac{1}{4}$ " focal length

Number	Date	Time	Scale	Stage of Tide
22144	29 March 1948	12:52	1:20,000	No perceptible tide *
22145	"	12:53	"	
22179	"	13:35	"	
22180	"	13:36	"	

Tide (III) *

Reference Station: (Inshore quadrangle)
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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

Date: *12 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):

65

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

0.1

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

1.2

Control Leveling - Miles (II): 61

Number of Triangulation Stations searched for (II): 5

Recovered: 5

Identified: 4

Number of BMs searched for (II): 5

Recovered: 5

Identified: 5

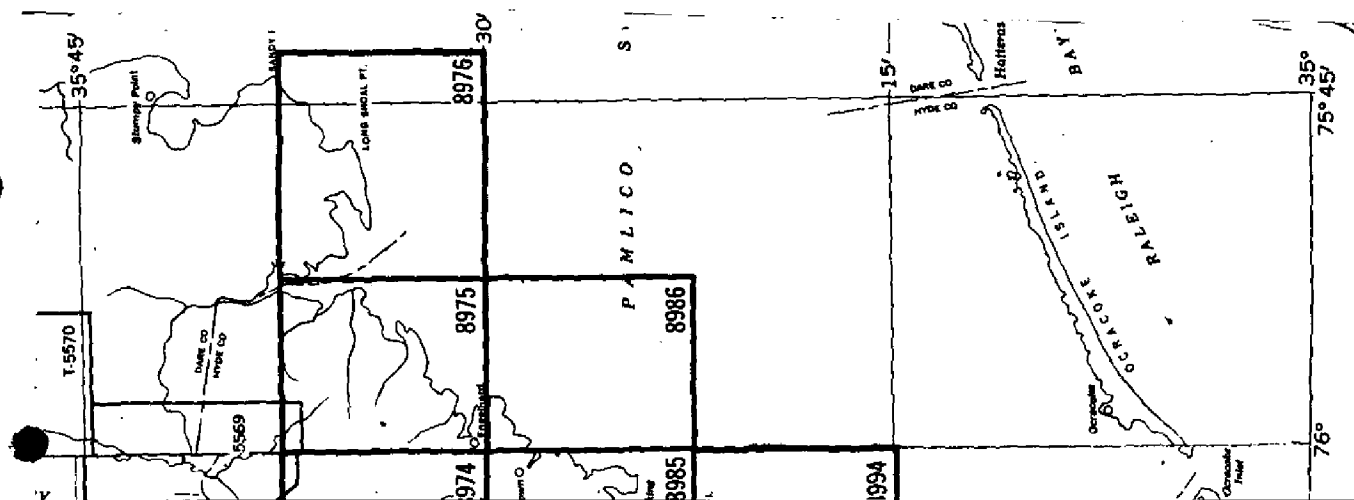
Number of Recoverable Photo Stations established (III):

None

Number of Temporary Photo Hydro Stations established (III):

None

Remarks: * The periodic tide is negligible.



Summary to Accompany T-8967

Topographic map T-8967 is one of 32 similar maps of Project Ph-20(47) and is located in the northwestern portion of the project. It shows the land adjacent to and north of the Pamlico River and shows the head of Broad Creek.

This 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 and covers $7\frac{1}{2}'$ in latitude by $7\frac{1}{2}'$ in longitude. The entire map was field edited. The map will be published by the Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle. Items registered under T-8967 will include a cloth-mounted lithographic print of the manuscript at a scale of 1:20,000, a cloth-mounted color print at a scale of 1:24,000, and the descriptive report.

FIELD INSPECTION REPORT
 Quadrangle T-8967
 35 30.0' / 76 52.5' / 7.5
 Project Ph-20 (47)

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 report is submitted under Instructions dated 30 September 1942. The field work was accomplished by the following personnel:

<u>Name and Title</u>	<u>Phase</u>	<u>Started</u>	<u>Completed</u>
Milton B. Cram Cartographer	Fourth Order levels Contours and Field Inspection	Dec. 1948 Dec. 1948	Mar. 1949 Mar. 1949
Irving Zirpel, Jr. Cartographer Survey Aid	Contours and Field Inspection	Mar. 1949	Apr. 1949
Egmont Horn Cartographic Survey Aid		Apr. 1949	May 1949

I. DESCRIPTION OF THE AREA

This quadrangle is located in the north central part of Beaufort County, North Carolina, in an area where agriculture is the principal industry. Tobacco, corn and small grain are the main crops. The major part of the land is heavily wooded with many small scattered cultivated areas. A part of the extreme southern portion of the extensive swamp known locally as the J & W Dismal Swamp lies in the northern section of the quadrangle.

Two main highways and one railroad traverse the area. State Highway #32 extends in a northerly and easterly direction through the southeastern part. State Highway #264 extends in an east-west and a branch of the Norfolk Southern Railroad in a northeast-southwest direction through the southern part. Secondary roads adequately serve the area.

→ U.S. 264 (N.C. State Hwy #92)
 R. D. Duffett

2. COMPLETENESS OF FIELD INSPECTION

Field inspection is believed to be adequate and complete.

3. INTERPRETATION OF THE PHOTOGRAPHS

No difficulty was encountered in the interpretation of the photographs.

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4. HORIZONTAL CONTROL

A search was made for all known horizontal control, and a report for each triangulation station submitted on Form 526. A sufficient number of stations was identified for control of the radial plot.

No supplemental control was established.

The following stations were established by the Corps of Engineers:

C of E Monument 65 - 1942
Pipe Station B - 1 1942
Pipe Station B - 2 1942

5. VERTICAL CONTROL

Five bench marks were recovered, identified, and reported on Form 685-A.

Sixty-one miles of fly-levels were run to establish supplemental control for contouring. The largest closure was 0.9 foot and all closures over 0.3 foot were adjusted.

List of Control established by other Agencies:

Boundary Monument? - 2nd order - no adjustment.
30.5 (U.S.G.S.) - 2nd Order - no adjustments.

6. CONTOURS AND DRAINAGE

Contouring was done by planetable methods on 1: 20,000 nine-lens photographs. The contour interval was five feet. Elevations ranged from ten to over fifty feet, the highest area being found in the northern part, which is the southern limit of the J & W Dismal Swamp.

All traverses with more than three table set ups were closed. All closures were within specifications.

The drainage pattern is very definite. The land slopes toward the Pamlico River.

7. MEAN HIGH-WATER LINE

The short section of high-water line in Broad Creek shows plainly on the photographs.

See item 35.

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8. LOW-WATER LINE

The low-water line coincides with the high-water line.

9. WHARVES AND SHORELINE STRUCTURES

Inapplicable.

10. DETAILS OFFSHORE FROM THE HIGH-WATER LINE

Inapplicable.

11. LANDMARKS AND AIDS TO NAVIGATION

There are no landmarks nor aids to navigation in this quadrangle.

12. HYDROGRAPHIC CONTROL

Inapplicable.

13. LANDING FIELD AND AERONAUTICAL AIDS

There are no landing fields or aeronautical aids in this quadrangle.

14. ROAD CLASSIFICATION

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

15. BRIDGES

There are no bridges over navigable waters in this 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.

Many of the dwellings were obscured by overhanging trees. These buildings as well as new structures erected since photography have been delineated in red ink.

17. BOUNDARY MONUMENTS AND LINES

For description of all boundaries in the project, see Special Boundary Report, which was submitted on 14 February, 1949 by Mr. Wilbur H. Nelson, and supplement boundary report by Mr. A. J. Wraight, which

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will be submitted (Filed in Div. of Photogrammetry)
See item 56

18. GEOGRAPHIC NAMES

This is the subject of a special report that will be submitted
by Mr. A. J. Wraight, filed in Geographic Names Section, Div. of Charts.
Also see item 55 & 48

20 May 1949
Submitted by:

Egmont Horn by JKW
Egmont Horn
Cartographic Survey Aid

Approved
20 May 1949

E. R. McCarthy
E. R. McCarthy
Chief of Party

PHOTOGRAMMETRIC PLOT REPORT

21. AREA COVERED

This report is on Photogrammetric Plot No. 3 of Ph-20(47) North Carolina. This plot comprised six quadrangles : T-8966, T-8967, T-8968, T-8977, T-8978, and T-8979.

The sketch on page 15 of this report shows the arrangement of the quadrangles, junction with previous photogrammetric plots of this project, centers of the photographs used, and the control identified for use in this plot.

The projections for the quadrangles in this plot are polyconic at 1: 20,000 scale and are 7' 30" in latitude and longitude. The 10,000-foot intervals of the North Carolina Lambert Co-ordinate System are ruled on the projections.

22. METHOD

This photogrammetric plot was laid using hand templates in the radial plot method.

The base grids, upon which this radial plot was laid, were of vinylite ruled with 10,000-foot intervals at 1: 20,000 scale. Sufficient grids were joined to encompass all the control identified for this radial plot as shown in the sketch on page 15. A part of the base grid layout was that carrying the results of Photogrammetric Plot No. 1 of Ph-20(47) along the junction with this plot.

All the horizontal^a control recovered or established by the Field Party was plotted on the projections and checked. Substitute stations identified and located for controlling the radial plot were plotted graphically unless the substitute station was more than 1,000 feet from the main station, or more than one instrument set-up was made; in which case position computations were made and the station plotted conventionally and checked.

Control to be used in the main radial plot was transferred from the quadrangle projections to the base grids by matching the plane coordinate grid lines of the quadrangle with those of the base grids. Identified control that fell outside the projection limits was plotted on the base grids in the conventional way and checked.

2

The photographs furnished for this radial plot were nine-lens at approximately 1: 20,000 scale, numbered as follows:

22126 - 22133 inclusive
22141 - 22149 "
22176 - 22183 "
22222 & 22223
22227 - 22229 inclusive
22232A
22233 - 22239 inclusive
22337 - 22340 "

In accordance with instructions for 1947 photographs numbered 19558 to 22340, master calibration templet 21682 was used for correcting transforming errors and paper distortion.

Pass points were selected in a regular scheme to assist in strengthening the plot and densely enough to provide ample control for cutting in detail points.

The templets used were vinylite.


This radial plot was continued north from the junction with Photogrammetric Plot No. 2 of Ph-20(47) for quadrangles T-8987 and T-8988. Development of the plot was done from rigidly fixed templets through those less strongly fixed and finally bridging those with the least control.

The final laydown of this plot gave tight intersections on pass points, all of which were fixed by cuts from four or more photographs to give strong fixes. The quality of intersections for pass points, azimuths to photograph centers, and on control indicate that this radial plot may be called strong.

Compilation of some of the quadrangles has progressed to areas in which it is possible to radially cut in some Aids to Navigation by using the pass points as control, and then checking the location with theodolite cuts furnished by the field party. Excellent agreement from the two methods serves as a spot check on this radial plot.

Forty-eight horizontal control stations were identified for use in this radial plot; all gave tight intersections but four did not hold their field geographic position. These are discussed under Item 23 (ADEQUACY OF CONTROL).

Intersections for all points located by the radial plot were circled on the plot before transfer to the map manuscripts. The map manuscripts were superposed on the plot with the grid coordinate lines of the map manuscripts matching those of the base grids for transfer



(c) Substitute Station GERARD 1935 (No. 40 on the sketch) on T-8978, classified "Positive" in accuracy of identification, gave a radial plot position .5mm (10 meters) east of the geographic position ascertained by the field measurements. The control station identification card and field print were returned to the field party on January 4, 1950 for investigation. A new Substitute Station GERARD 1935 was identified and located, and received in this office on January 23, 1950. The radial plot having by then been completed a check was made by first cutting in the new substitute station on the map manuscript using pass points for control, and then plotting the new station conventionally. The plotted position and "cut in" position coincided within 0.2mm. (4 meters).

(d) Substitute Station DURHAM 1933 (No. 30 on the sketch) in T-8979 was located and identified with a "Doubtful" classification in the field. The intersection for this station on the radial plot is 0.8mm (16 meters) west of the field position. The radial plot position is on the map manuscript as a pass point.

24. SUPPLEMENTAL DATA

Inapplicable.

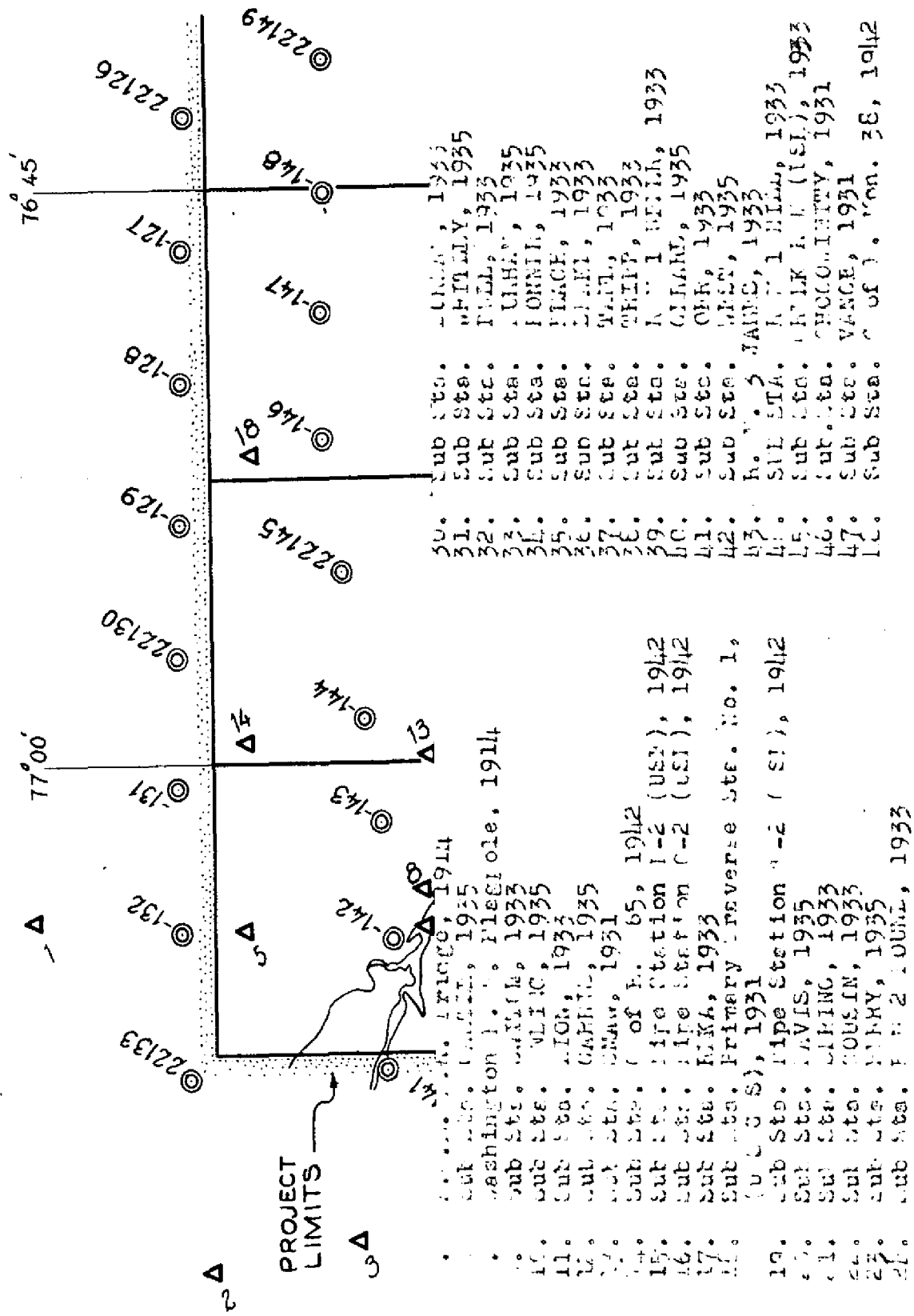
25. PHOTOGRAPHY

All photographs are printed on positype paper. Photographic coverage is adequate, flight overlap and end lap are very good. The flight outside the project limits insures the best possible coverage and junction with any work adjoining these quadrangles.

All the photographs are of good definition but not of particularly good scale. Scale of the photographs ranges from 1: 19100 to 1: 19450.

The tilt was computed for the most severely tilted photograph, number 22133, northwest of T-8966. Photograph 22133 was found to be tilted $1^{\circ} 55'$ which gave an isocenter 3.5mm from the mechanical center. The isocenter was used for the radial plot and is on the map manuscript though a check was made with a templet from the same photograph using the mechanical center, and revealed only minor differences. Tilt on other photographs was small enough to be disregarded.

Generally the quality of transforming was satisfactory. Some



26. GENERAL

A final check was made of all map manuscripts to insure the transfer of all pass points and control to the material limits of all manuscripts and "Dog Ears" for all photograph centers needed for compilation before releasing the manuscripts for compilation.

Approved and Forwarded:

Ross A. Gilmore

Ross A. Gilmore, 2/3/50
Chief of Party.

Milton M. Slavney

Milton M. Slavney
Cartographer

1 FT. = 3048006 METERS
COMPUTED BY: B.F. Lampton
DATE: 22 September, 1948
CHECKED BY: R.R. Wagner
DATE: 22 Sept. 1948

COMPILATION REPORT, T-8967

31. DELINEATION

The graphic method of delineation was used.

The photographs used were of poor scale, which necessitated the establishment of more detail points than would otherwise have been needed.

The field inspection was adequate.

32. CONTROL

A sufficient number of well placed primary and secondary control points were established to insure the establishment of detail points.

For a more complete discussion of control, reference the Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Except for the poor scale of the photographs, which necessitated the use of the projector at times, no difficulty was encountered in the transference of the contours to the map manuscript. All drainage was delineated as shown by field inspector on the field photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Only a fractional part of the Pamlico River (in extreme southwest corner) appears on this map manuscript.

Also item 7

36. OFFSHORE DETAILS

Not applicable.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

No supplemental control established.

39. JUNCTIONS

A junction has been made with Survey No. T-8966 on the west, T-8968 on the east and T-8978 on the south. There is no contemporary survey on the north. All junctions are in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

The only available map for comparison was U.S. Corps of Engineers quadrangle, PLYMOUTH, N. C., scale 1:125,000, compiled in 1942. The small scale of the quadrangle permitted only a general comparison, which disclosed no discrepancies worthy of note. This map, T-8967, supercedes the older survey for all mapping and charting purposes.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with U S C & G S Nautical Chart No. 537, scale 1:40,000, published September 1937 (4th edition) and corrected to 12 January 1948.

Attention is called to two ponds shown on the chart which are not visible on the photographs. One of these is shown just northeast of U.S. 264 where the Norfolk Southern R. R. crosses. The other is located near the south boundary of the map manuscript on the east shore of Broad Creek.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

Reference the two ponds already mentioned under this item. See Review Report (item 65)

Rudolph Dossett
Rudolph Dossett
Cartographer (Photogrammetric)

Approved and Forwarded

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

48. GEOGRAPHIC NAME LIST:

ALLIGOODS ✓
ALLIGOODS CHURCH ✓
ASBURY CHURCH AND CEMETERY ✓
BATH TOWNSHIP
BEAUFORT COUNTY ✓
BEAVERDAM CHURCH ✓
BEAVERDAM SWAMP ✓
BETSYS ELBOW ✓
BRADDY ROAD ✓
BROAD CREEK ✓
BUNYAN
DOUGLAS CROSSROADS ✓
FIVE POINTS
FORK SWAMP
HALL SWAMP
HERRING RUN
J AND W DISMAL SWAMP
LIZZARD SLIPIT ?
LODGE ROAD
LONGACRE TOWNSHIP
MIDWAY ✓
MT. OLIVE CHURCH ✓
NORFOLK SOUTHERN RAILWAY ✓
NORTH CAROLINA
N. C. STATE ROAD NO. 32 ✓
N. C. STATE ROAD NO. 92 ✓
PAMLICO RIVER ✓
PINEY GROVE
PRIMITIVE BAPTIST CHURCH ✓
ROSEMARY CHURCH ✓
SLATESTONE
SLATESTONE ROAD ✓
ST. LUKES CHURCH
TERRAPIN TRACK
U. S. HIGHWAY NO. 264 ✓
WASHINGTON TOWNSHIP
WOODWARDS POND CHURCH ✓
ZION CHURCH AND CEMETERY ✓
CAMP LEACH ROAD -
RIVER ROAD

Names approved

10-11-51

a. j. w.

49. NOTES FOR THE HYDROGRAPHER

Not applicable.

T. 8967

CONTROL STATIONS

[illegible]

FIELD EDIT REPORT
Project PH-20(47)
Quad. T-8967

Harry F. Garber, Chief of Party

51. METHODS

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

Corrections and additions were made both by visual inspection and standard surveying procedures.

Corrections and additions have been noted on the field edit sheet and field photographs, numbered 22144, 22145 and 22179. Deletions have been noted on the field edit sheet. All work shown on the photographs is properly referenced on the discrepancy print.

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

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

The revision of the Geographic Names investigation is shown in paragraph 48 of the compilation report, paragraph 55 of this report, and on the field edit sheet.

52. ADEQUACY OF COMPILATION

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

53. MAP ACCURACY

No horizontal accuracy test was made in this quadrangle. However, the relative position of topographic features, such as roads, railroads and streams is good.

See item 67

Vertical accuracy tests were made in two areas. One near the central part and the other near the southeastern part of the quadrangle. A total of 10.6 lineal miles of plane-table traverses were run to check 120 points on contours in areas totaling 1.7 square miles; 57 per cent of the points tested were in error one foot or less; 27 per cent were in error more than one foot, and less than two and one half feet (one half contour interval); 14 per cent were in error more than one half and less than one contour interval, and the remaining 2 per cent were in error more than one contour interval. These tests were run on the manuscript (Field Edit Sheet) and tabulated in the "Vertical Accuracy Test Report" for this quadrangle. All tested contours were corrected where necessary. *See Review Report.*

54. RECOMMENDATIONS

None

55. EXAMINATION OF PROOF COPY

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

The following changes on the Investigation of Geographic Names are recommended:

Delete - Piney Grove School - This school no longer exists. Students now attend Pinetown School.

Delete - Brick Kiln Road - This road falls on Quad. T-8966.

Delete - Magnolia School - This school no longer exists. Students now attend River Road School.

Add - Woodard's Pond Church.

Add - Mt. Olive Church.

The following persons verified the names of the two churches:

<u>Name</u>	<u>Address</u>	<u>Yrs. Resident</u>
Bertha Jones	Route 2, Washington, No. Carolina	40
Albert Turnage	"	25
Christine Turnage	"	25

The name St. Lucie Church is misspelled. It should be St. Lukes Church.

56. BOUNDARY LINES

Reference: Item 17 - Field Inspection Report.

The township boundary lines as indicated on the Department of Agriculture Soil Survey Map for Beaufort County are erroneous according to the Beaufort County Tax Collector, Mr. R. D. Redditt of Washington, North Carolina.

The correct township boundary lines, taken from a map in the tax collector's office, were transferred to the field edit sheets. The dividing line between Longacre and Bath Townships falls on Quad. T-8968, and does not extend into Quad. T-8967 as indicated on the T-8968 Field Edit Sheet. Another copy of Quad. T-8968, indicating the correct township boundary line, is being forwarded.

57. JUNCTIONS

Satisfactory junctions have been made with Quadrangles T-8968, T-8978 and T-8966. There is no contemporary survey northward of the quadrangle.

19 January 1951

Submitted by:

James E. Hundley
by *H. F. G.*
James E. Hundley
Cartographer

19 February 1951

Approved by:

Harry F. Garber
Harry F. Garber
Chief of Party

Review Report
Topographic Map T-8967
12 October 1951

62. Comparison with Registered Topographic Surveys:

T-1211	1:20,000	1870-71
T-6462	1:10,000	1935
T-6465	1:10,000	1935

Survey T-1211 shows two ponds (referred to under item 47) which are shown as swamp on this survey. Otherwise, except for changes in culture, no major differences were noted. This survey is to supersede these prior surveys for common areas for nautical charting purposes.

63. Comparison with Maps of other Agencies:

Plymouth, N. C. Quadrangle (planimeter^{vic}, 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, revised 12 January 1948
See item 47. The two ponds mentioned do not exist. Shown as
Swamp and Streams.

66. Adequacy of Results and Future Surveys:

This map meets the National Standards of Map Accuracy and complies with project instructions.

67. Vertical Accuracy Tests:

The results of the two tests were recomputed during this review allowing a shift for points tested of 0.61 mm (allowable tolerance at a scale of 1:24,000). All points shown on the field edit sheet were tabulated in this check, making 147 points in one area and 82 points in the other or a total of 229 points.

For the area of 147 points, 91% of the points were within one-half contour or better, 9% were in error one-half to a full contour and none were in error over one contour. For the area of 82 points, 95% of points were within one-half contour or better, 5% of points were in error one-half to a full contour and none were in error over one contour.

The discrepancy between the tabulations of the reviewer and the field editor may be due to the difference in number of points used and the shift in position allowed by the reviewer and not allowed by the field editor. It was also noted that five points were taken on a 15-foot contour incorrectly compiled as a 20-foot contour which would have effected the results for the area of 147 points.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

S. V. Griffith 3/15/52
Chief, Review Section
Division of Photogrammetry

J. H. Edmonstone
Chief, Nautical Chart Branch
Division of Charts GR

O. S. Reading
Chief, Division of Photogrammetry

Carl O. Heston
Chief, Division of Coastal
Surveys 427