

8736

Diag. Cht. No. 1234

Masontown, NC

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. _____ Office No. T-8736

LOCALITY

State NORTH CAROLINA

General locality BOGUE SOUND

Locality LITTLE LAKE

194 6-'49

CHIEF OF PARTY

R.J.Sipe, Chief of Field Party

R.A.Gilmore, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE June 8, 1950

B-1870-1 (1)

8736

DATA RECORD

T- 8736

Quadrangle (II): *HAVELOCK SW*

Project No. (II): Ph-5(45)

Field Office: New Bern, N.C. Chief of Party: Riley J. Sipe

Compilation Office: Tampa Photo-grammetric Office Chief of Party: Ross A. Gilmore

Instructions dated (II III): Undated

Copy filed in ~~Descriptive~~
~~Report No. T~~ (VI)
Div. of Photogr. Review Sec.
Office files

Completed survey received in office:

10/14/48

Reported to Nautical Chart Section:

*10/21/48*Reviewed: *4/20/50*

Applied to chart No.

Date:

Redrafting Completed:

Registered: *May 24, 1950*

Published:

Compilation Scale: 1: 20,000

Published Scale: *1:24,000*

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

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

Reference Station (III): BRYAN, 1931

Lat.: 34° 50' 26."083 (803.7m) Long.: 76° 59' 14."931 (379.4m) Adjusted
Unadjusted

State Plane Coordinates (VI):

NORTH CAROLINA

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

| <u>Number</u> | <u>Date</u> | <u>Time</u> | <u>Scale</u> | <u>Stage of Tide</u> |
|---------------|---------------|-------------|--------------|----------------------|
| 16009 | 5 April 1946 | 1550 | 1:20,000 | No tide water |
| 16010 | " | 1551 | " | " |
| 16014 | " | 1551 | " | " |
| 16015 | " | 1604 | " | " |
| 16031 | " | 1641 | " | " |
| 16243 | 11 April 1946 | 1043 | " | " |
| 16244 | " | 1044 | " | " |
| 16245 | " | 1046 | " | " |
| 16246 | " | 1048 | " | " |

Tide from (III): No tide

Mean Range: ----- Spring Range: -----

Camera: (Kind or source) Nine-lens 8 $\frac{1}{4}$ " focal length.

Field Inspection by: R.A. Horn date: 15, April 1947 to
W.M. Reynolds 27 April 1948
J.R. Smith

Field Edit by: *E.T. Jenkins* date: *Oct. 12 Nov. 1949*

Date of Mean High-Water Line Location (III): None

Projection and Grids ruled by (III) H.R. (Wash. O.) date: 17 Nov. 1947

" " " checked by: T. L.J. " " date: 17 Nov. 1947

Control plotted by: R. Dossett date: 2 March 1948

Control checked by: W.W. Dawsey date: 2 March 1948

Radial Plot by: M.M. Slavney date: 28 May 1948

Detailed by: I.I. Saperstein date: July 1948

Reviewed in compilation office by: J.A. Giles date: Sept. 1948

Map Manuscript
Elevations on ~~Field Edit Sheet~~
checked by: J.A. Giles date: Sept. 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 61.3 miles

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

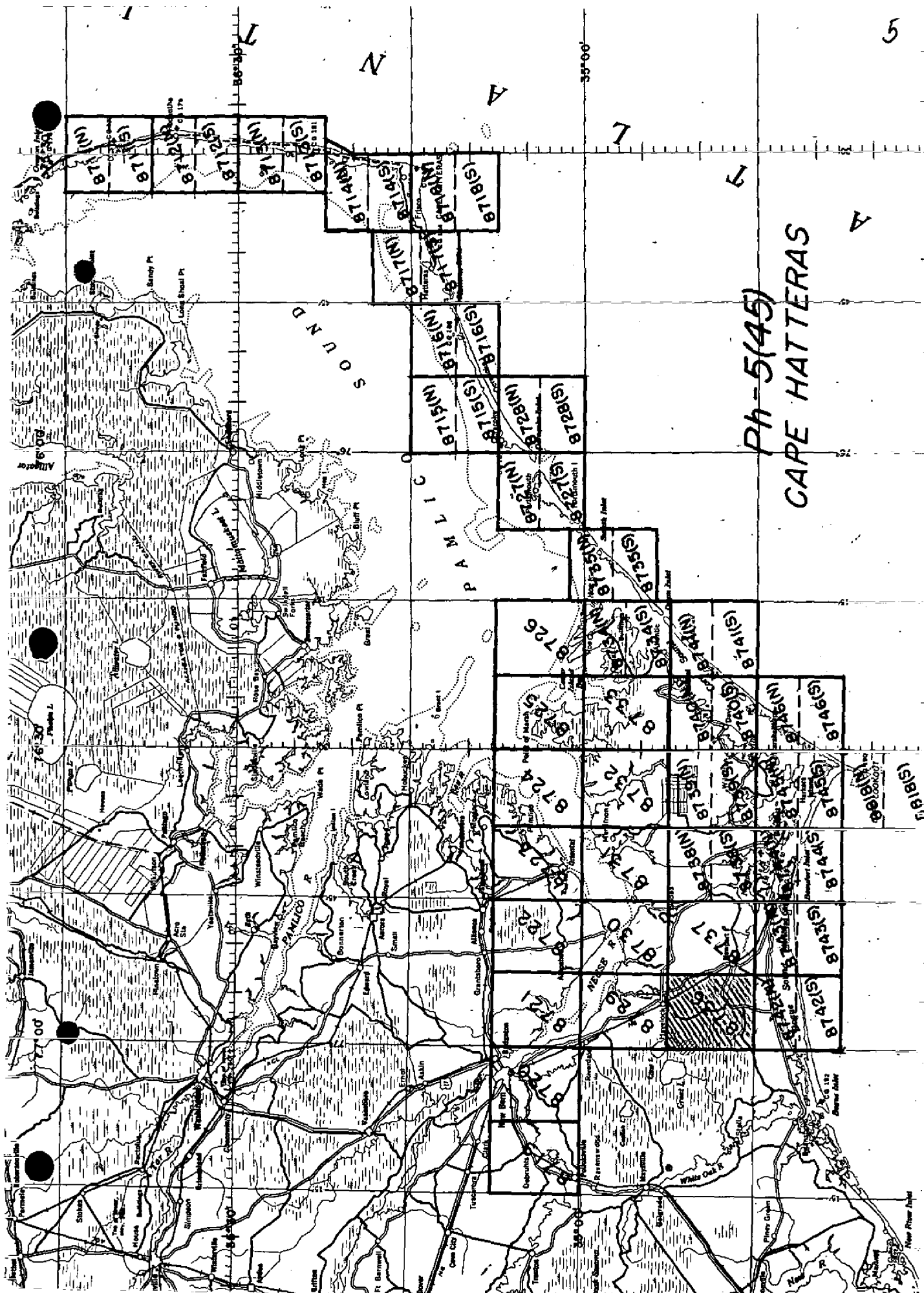
Leveling (to control contours) - miles: 26.9

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:

PH-5(45)
CAPE HATTERAS



Summary to Accompany T-8736

T-8736 is one of a series of 37 $7\frac{1}{2}$ -minute quadrangles in Project Ph-5(45) in North Carolina. It includes an area which covers the watershed and upper reaches of the Newport River and falls entirely within the boundaries of the Croatan National Forest. A part of the residential area on the south side of the Marine Corps Air Station is also included.

T-8736 consists of but one manuscript at 1:20,000 scale.

One set of 1:20,000 scale nine-lens photographs were flown and used for the compilation, and all contours and field inspection data were surveyed and applied at 1:20,000 scale.

The several mapping operations were as follows:

- a) Nine-lens photography and laboratory processing, 1:20,000 scale.
- b) Field work included identification and establishment of horizontal and vertical control, plane-table contouring, annotation of photographic detail and geographic names investigation.
- c) Radial plot and graphic compilation.
- d) Preliminary office inspection.
- e) Field edit and completion.
- f) Final review of the manuscript to ensure completeness and conformance with specifications and project instructions, and to include additions and corrections from the field edit survey.
- g) Processing -
A 1:20,000 scale glass plate negative of the manuscript will be prepared for transmittal to the Geological Survey

T-8736 will be published and distributed by the Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle in accordance with an agreement dated March 25, 1947.

Data pertaining to this survey (T-8736) will be filed and may be obtained as follows:

Page 2
T-8736

- a) Filed in the Division of Photogrammetry
 - 1. The Map Manuscript (acetate original)
1:20,000 scale with final review
corrections applied.
 - 2. Field edit sheet
 - 3. Geographic names sheet
- b) Filed in the Bureau Archives
 - 1. A cloth-backed lithographic print of
T-8736 manuscript at 1:20,000 scale.
 - 2. Descriptive Report

The above data (b) are to be permanently registered under one number (T-8736) and when the topographic map is published, a cloth-backed copy of the printed map at 1:24,000 scale will be registered.

FIELD INSPECTION REPORT
T-8736
(34-45/76-52.5/7.5)
Project Ph-5(45)
Riley J. Sipe, Chief of Party

All phases of the field work were done in accordance with The Director's Instructions, Project Ph-5(45), Field, undated, and supplements to the above, except for deviations noted herein.

The field work on this quadrangle was performed by the following personnel on the dates indicated.

| <u>NAME & TITLE</u> | <u>FIELD WORK</u> | <u>DATES</u> |
|------------------------------------|---|---------------------|
| Robert A. Horn Photogrammetrist | Vertical Control (Recovery & Levels) | 4-15-47 12-16-47 |
| W. M. Reynolds Engr. Aid | Horizontal Control | 4-28-47 4-29-47 |
| R. A. Horn Photogrammetrist | Contours and Interior Inspection | 12-17-47 4-2-48 |
| J. R. Smith Engr. Aid | Contours & Interior Inspection | 4-5-48 4-27-48 |

1. DESCRIPTION OF THE AREA

The area is, to a great extent, covered with brush and woods, much of which is swamp. There is some cultivated land and the principal occupation of the inhabitants of the area is farming.

Drainage is a critical problem to the farmers. Many valuable crops are lost annually due to improper drainage. They have many man-made ditches, but the biggest difficulty appears to be the retarded flow of the Newport River, into which the ditches flow. The Newport River is apparently in need of dredging, not for navigable purposes particularly but for better drainage of its watershed.

The Atlantic and East Carolina Railroad and U. S. Highway #70 cut through the northeast corner of the quadrangle.

There is only one settlement within the confines of the quadrangle which is Masontown, with a population of possibly 75.

2. COMPLETENESS OF FIELD INSPECTION

Field inspection has been completely and adequately covered on the photographs.

- 2 -

3. INTERPRETATION OF THE PHOTOGRAPHS

No difficulties were encountered in the interpretation of the photographs since they were of a recent date.

4. HORIZONTAL CONTROL

Seven horizontal control stations fall in this quadrangle. All were searched for and four were identified on the photographs for control of the radial plot.

5. VERTICAL CONTROL

Four Bench Marks were recovered and identified on the photographs. Twenty-eight miles of fly-levels were run to facilitate contouring.

6. CONTOURS AND DRAINAGE

Contouring was done on 9-lens 1:20,000 scale photographs. The contours follow a fairly normal pattern.

Natural drainage is insufficient in the area and is augmented considerably by the numerous drainage ditches mentioned in paragraph 1. However, even with the ditches the situation is not adequately remedied.

A planetable was used in contouring and in the location of drainage.

7. MEAN HIGH WATER LINE

On the lakes in the northwest sector of the quadrangle an Apparent Shoreline, and a very small portion of a Mean High Water Line, have been indicated.

In the Newport River there are no perceptible tide changes. Height of water is influenced by wind and rainfall. That section of the river in this quadrangle is obscured on the photographs by vegetative growth, consequently no attempt has been made to indicate the various water lines. That part of the Newport River which falls in this quadrangle is not navigable except for a skiff.

8. LOW WATER LINE

See Paragraph #7.

9. WHARVES AND SHORELINE STRUCTURES

There are no wharves or shoreline structures in this quadrangle.

10. DETAILS OFFSHORE FROM THE HIGH WATER LINE

Not applicable.

11. LANDMARKS AND AIDS TO NAVIGATION

There are no landmarks or aids to navigation in this section of the Newport River.

12. HYDROGRAPHIC CONTROL

Not applicable.

13. LANDING FIELDS AND AERONAUTICAL AIDS

There is one small private landing strip in the northeast sector of this quadrangle. It is adequate only for a small plane. There are no other fields or aeronautical aids.

14. ROAD CLASSIFICATION

Roads and trails were identified in accordance with Photogrammetry Instructions No. 10, dated 4/14/47 and supplements to same.

15. BRIDGES

There are no bridges over navigable waters in this quadrangle.

16. BUILDINGS AND STRUCTURES

Adequately shown on the 1:20,000 scale photographs.

17. BOUNDARY MONUMENTS AND LINES

Two points on the Carteret-Craven County Line have been identified on the photographs. No other Boundary Monuments or Lines, as required in the Project Instructions, are within the limits of this quadrangle.

18. GEOGRAPHIC NAMES

Geographic Names are shown on the photographs. In addition, Geographic Names were investigated in the field and are the subject of a special report by Mr. A. J. Wraight, Topographic Engineer.

Submitted:

Date: 21 May 1948

R. A. Horn

R. A. Horn
Photogrammetrist

Approved:

Date: 21 May 1948

Riley J. Sipe
Riley J. Sipe
Chief of Party

[illegible]

1 FT. = 3048006 METER

COMPUTED BY W. H. Shearouse.

DATE 2 April 1947

CHECKED BY: **M.M. Slavney**

DATE 10 July 1947

M-2389-12

COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8736

26 AND 27. CONTROL AND RADIAL PLOT:

A special report for the Main Radial Plot was submitted 30 July 1948 by Milton M. Slavney, Photogrammetric Engineer. *Filed in Div. Photogr. General Files.*

28. DELINEATION:

The scale of the photographs for this quadrangle range from good to poor.

The field inspection was adequate. Because of the poor scale of photographs 16014 and 16015 some of the contours were delineated by the projector method.

Many detail points were established in order to delineate the map manuscript properly.

29. SUPPLEMENTAL DATA:

No supplemental data was used.

30. MEAN HIGH-WATER LINE:

There is no tide water within the limits of this quadrangle. The shoreline for Little Lake and Ellis Lake was delineated as shown by the field inspector's notes.

31. LOW-WATER AND SHOAL LINES:

There are no low-water or shoal lines within the limits of this quadrangle.

32. DETAILS OFFSHORE FROM HIGH-WATER LINE:

None to be mapped.

33. WHARVES AND SHORELINE STRUCTURES:

There are no wharves or shoreline structures within the quadrangle.

34. LANDMARKS AND AIDS TO NAVIGATION:

A landmark charted as "SPIRE" appears on Nautical Chart 1234, approximate position Latitude $34^{\circ} 45.2'$, Longitude $76^{\circ} 54.3'$.

No mention of the above landmark was made in the field inspection report. The field editor should verify its existence or recommend deletion of the "Spire" from the chart. *Non-existent. See field edit.*

There are no aids to navigation within the limits of this quadrangle.

35. HYDROGRAPHIC CONTROL:

Not applicable.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

There is a small private runway in the northern part of the quadrangle.

There are no aeronautical aids within the limits of this quadrangle.

37. GEOGRAPHIC NAMES:

A geographic name sheet was submitted by the Washington Office. All names have been applied to the map manuscript accordingly.

Approved list of names attached to this Desc Rept.

38. BOUNDARIES:

County and township boundaries were delineated on the map manuscript according to the maps and legal descriptions submitted by the field party. There are only two monuments within the limits of this quadrangle; these are on the Craven--Carteret county line.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There are no topographic quadrangles available in this office for comparison.

-3-

45. COMPARISON WITH NAUTICAL CHARTS:

There is no nautical chart covering the entire area of this quadrangle. Chart 1234 shows a small part of "Hibbs Road," "Nine-Foot Road," and a landmark "Spire" which fall within the limits of this quadrangle. See item 34 of this report.

Respectfully submitted,

Irving I. Saperstein
Irving I. Saperstein,
Photogrammetric Aid.

Approved and Forwarded:

Ross A. Gilmore
Ross A. Gilmore, ^{10/1/41}
Chief of Party.

FIELD EDIT REPORT
Quadrangle T-8736
34° 45 /52.5' - 76° 52.5 /60'

E. R. McCarthy, Chief of Party

The field edit of this quadrangle was accomplished during the month of October 1949 by Elgan T. Jenkins, Cartographer. All work was performed in accordance with Field Edit Instructions dated 24 August 1945, and supplemental instructions 1, dated 4 February 1946. The first section of this report follows the form given in paragraph 727- Part II- Topographic Manual (June 1949).

51. METHODS

All features were checked visually and corrections made as necessary by planetable methods.

One vertical accuracy test was made employing standard plane-table methods.

Most of the additions and corrections were made on the photographs and were cross referenced on the field edit sheet.

A legend describing the symbols and the color of inks used is shown on the field edit sheet and the photographs.

The field edit information is shown on one field edit sheet, one discrepancy print, one geographic name print, and three photographs. (Nos. 16014, 16244, 16245).

Discrepancies, where not settled otherwise, are discussed in the body of this report.

52. ADEQUACY OF THE COMPILATION

The map manuscript compilation is considered good. Very few features were overlooked.

- 2 -

53. MAP ACCURACY

One vertical accuracy test was made in the S. E. corner of the quadrangle. The test began and closed on the same fly level point. The horizontal and vertical errors were negligible. Standard planetable methods were employed and the test was made directly on the field edit sheet.

Eighteen points on various contours were tested with the following results.

88% of points tested were in error one foot or less.

6% of points tested were in error one half of a contour interval.

6% of points tested were in error more than one half but less than one contour interval. Considering the nature of the terrain in the area, the results are considered good.

55. EXAMINATION OF THE PROOF COPY

A corrected copy of the map manuscript was examined by Mr. R. C. Wells, and Mr. F. T. Jones. Mr. Wells is a civil engineer employed by the engineering department of the Marine Corps Air Station, Cherry Point, N. C. who has been a resident of this area for 6 years and has spent much time hunting and fishing. Mr. Jones has been a resident of Newport, N. C. for the past 40 years and is now a dispatcher with the National Forest service. Neither Mr. Wells nor Mr. Jones found any errors in the corrected copy.

56. SWAMP DELINEATION AND PHOTOGRAPH TONES

Any differences in the Compiler's and Field Editor's delineation of swamp limits are shown on the photographs.

Specimen areas have been noted on the photographs and an explanation of their tones given as an aid to the compiler. The delineation of the swamp limits is considered good, as a rule.

3. HORIZONTAL CONTROL

Three recovery notes (Form 526) are being submitted for horizontal control.

In 34°-52.1' 76°-56.0' C of E. MON. 31 is an azimuth mark evidently established for HAVELOCK, 1931 (quadrangle T-8729). No geographic position can be found for it. The position of this azimuth mark was located graphically on the field edit sheet and should not be confused with the U. S. Coast & Geodetic azimuth mark established for HAVELOCK, 1931.

See
Control
Form

5. CONTOURS AND DRAINAGE

In 34°-51.1' 76°-57.4' the Field Inspector's delineation of the drainage is correct. There is a small intermittent ditch joining the main drainage as shown by the compiler but it is of no importance.

In 34°-50.5' 76°-58.5' several ditches have been deleted on the field edit sheet. These ditches are small and clogged with a growth of underbrush and reeds. Clarification should be the criterion as to what extent small ditches are shown in any area (see page 45-D-Part II Topographic Manual, June 1949).

In 34°-51' - 76°-58' the large canal noted along road and the ditch shown near the center of Ellis Lake is known as North Canal. The canal is a more prominent feature than the road.

6. WOODLAND COVER

Many brush areas have been reclassified on the field edit sheet. The growth is such that some young pines that were brush at the time of field inspection are now definitely in the tree classification.

9. LANDMARKS AND AIDS

The spire in 34°-45.3' - 76°-54.3' does not exist. It has been deleted from the latest issue of Chart 1234.

(See item 34 Compilation Report)

In 34°-47.8' - 76°-53.4' there is not a tower and according to reliable information there has never been one. *Falls on T-8737.*
(Newport Fire Tower)

12. OTHER INTERIOR FEATURES

All roads were classified in accordance with Paragraph 5441-Topographic Manual (June 1949).

Several roads were located or delineated during field edit. These roads are shown on the field edit sheet or cross referenced to the photographs.

13. GEOGRAPHIC NAMES

In 34°-48.0' - 76°-54.5' Big Ramhorn Community is unknown. Local residents call their community Holly Springs which name is recommended for mapping. The names "Manns Corner", Simmons Corner" and Pridgens Corner" are no longer known and deletion is recommended.

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In the N. E. corner of the quadrangle there is a matter of name placement that has been corrected. All new names are shown in their correct position on the geographic name sheet along with the names and addresses of reliable residents as references. The name "Little Ramhorn Canal" is correct.

Geographic names were investigated in the following manner: New names, changing of old names, and deletion of names were discussed with local residents and these names thoroughly investigated at various times over a period of two weeks. No name was changed or deleted unless a majority of residents declared it was unknown. New names were applied to some features that are, as a rule, known only to personnel of the National Forest Service.

Submitted:
12 November 1949

Elgan T. Jenkins
Elgan T. Jenkins
Cartographer

Approved:
21 November 1949

E. R. McCarthy

E. R. McCarthy
Chief of Party

GEOGRAPHIC NAMES

Survey No.

T-8736

1

Name on Survey

| | A | B | C | D | E | F | G | H | K | |
|---------------------------------|---|------------------------|---|--------------------|---|---|---|---|---|----|
| North Carolina | | | | | | | | | | 1 |
| Carteret County | | Morehead Township | | | | | | | | 2 |
| | | Newport Township | | | | | | | | 3 |
| | | White Oak Township | | | | | | | | 4 |
| Craven County | | Townships Nos. 5 and 6 | | | | | | | | 5 |
| Atlantic and East Carolina R.R. | | | | | | | | | | 6 |
| U.S. No. 70 | | | | | | | | | | 7 |
| Newport River | | | | | | | | | | 8 |
| Hibbs Road | | | | | | | | | | 9 |
| Smiths Swamp | | | | | | | | | | 10 |
| Blakes Branch | | | | | | | | | | 11 |
| Cedar Swamp Creek | | | | | | | | | | 12 |
| Meadows Branch | | | | | | | | | | 13 |
| Nine Foot Road | | | | | | | | | | 14 |
| Jasons Branch | | | | | | | | | | 15 |
| East Prong | | | | (of Jasons Branch | | | | | | 16 |
| Southwest Prong | | | | (of Newport River) | | | | | | 17 |
| Peck Swamp | | | | | | | | | | 18 |
| Church of Christ | | | | | | | | | | 19 |
| Juniper Branch | | | | | | | | | | 20 |
| Millis Swamp | | | | | | | | | | 21 |
| Millis Road | | | | | | | | | | 22 |
| Horse Island Road | | | | | | | | | | 23 |
| Lakes Pocason | | | | | | | | | | 24 |
| Little Run | | | | | | | | | | 25 |
| Northwest Prong | | | | (Of Newport River) | | | | | | 26 |
| Holly Springs | | | | | | | | | | 27 |

GEOGRAPHIC NAMES

Survey No.

T-8736

2

Name on Survey

| | A | B | C | D | E | F | G | H | K | |
|-------------------------------|-----------------|--------------------------|----------------------------|---------------------------|---------------|--------------------|------------------|------------------|---|----|
| | On Chart No. | On previous surv. No. | On U. S. quadrang. Maps | From local information | On local Maps | P. O. Guide or Ma. | Rand McNally At. | U. S. Light List | | 20 |
| Holly Spring Church | | | | | | | | | | 1 |
| Big Ramhorn Branch | | | | | | | | | | 2 |
| Little Ramhorn Canal | | | | | | | | | | 3 |
| Shoe Branch Canal | | | | | | | | | | 4 |
| Masontown | | | | | | | | | | 5 |
| East Prong | | | | (of Slocum Creek) | | | | | | 6 |
| Caps Branch | | | | | | | | | | 7 |
| Southwest Prong | | | | (of Slocum Creek) | | | | | | 8 |
| Black Swamp <i>over ridge</i> | | | | | | | | | | 9 |
| East Branch | | | | (of Southwest Prong) | | | | | | 10 |
| West Branch | | | | | | | | | | 11 |
| East Canal | | | | | | | | | | 12 |
| North Canal | | | | | | | | | | 13 |
| Middle Canal | | | | | | | | | | 14 |
| South Canal | | | | | | | | | | 15 |
| Camp Bryan | | | | | | | | | | 16 |
| Ellis Lake | | | | | | | | | | 17 |
| Little Lake | | | | | | | | | | 18 |
| Joes Branch | | | | | | | | | | 19 |
| Cypress Drain | | | | | | | | | | 20 |
| Mairev Branch | | | | | | | | | | 21 |
| Milldam Branch | | | | | | | | | | 22 |
| Croatan National Forest | | | | | | | | | | 23 |
| | | | | | | | | | | 24 |
| | | | | | | | | | | 25 |
| | | | | | | | | | | 26 |
| | | | | | | | | | | 27 |
| | | | | | | | | | | 28 |

Name approved

4-7-50

a.j.w.

Review Report T-8736
Topographic Map
20 April 1950

61. General Statement.--Most of the area within this quadrangle is poorly drained. The high, flat, swampy areas, usually covered with gums, oaks and maples, are called pocosons and they are seasonably inundated. In some instances the coverage is young pine, underbrush and briars. These areas are not true swamp. The true swamp as defined by the field editor follows the course of the Newport River and its tributary creeks and is composed mostly of gums, cypress, and water oaks. A swamp symbol is used to show the two types the same way but the notation "pocoson" is used to label the seasonably inundated areas of a swamp-like nature.

62. Comparison with Registered Topographic Surveys.-- None

63. Comparison with Maps of other Agencies.-- None

64. Comparison with Contemporary Hydrographic Surveys.-- None

65. Comparison with Nautical Charts.-- None

66. Adequacy of Results and Future Surveys.--One vertical accuracy test was made. Results were satisfactory with 96% of the 18 points tested shown correctly.

No horizontal accuracy test was made.

The Newport River is shown as the boundary between Newport and Morehead townships in Carteret County since the cartographic detail is not sufficiently accurate on the map of Carteret Co. (submitted as of Feb. 7, 1949 as the official map) to transfer the boundary line directly.

The exact limits of swamp and pocoson areas are subject to modification perhaps, due to the nature of the cover through this area, and but for the above items, the map complies with the project instructions and Bureau policy, and with the National Standards of Accuracy.

It is the first comprehensive topographic survey made of this area.

Reviewed by:

Roscoe J. French
Roscoe J. French

Approved by:

A. V. Griffith
Chief, Review Section *R.M.*
Div. of Photogrammetry

H. C. Moulton
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

Wm. A. Aife
Chief, Div. Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 9736

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.