Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Topographic

Field No.: Ph-61 (49) Office No.: T-9837

LOCALITY

State: North Carolina

General locality: Albemarle Sound

Locality: Creswell

1951-54

CHIEF OF PARTY

H. F. Garber, Chief of Field Party
J. E. Waugh, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE: June 27, 1957
DATA RECORD

T - 9837

Project No. (II): Ph-61(49) Quadrangle Name (IV):

Field Office (II): Edenton, North Carolina Chief of Party: Harry F. Garber
Photogrammetric Office (III): Tampa, Florida Officer-in-Charge: J. E. Waugh
Instructions dated (II) (III): 15 June 1951 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

JUL 13 1953
Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date:

Date registered (IV): 3-20-57

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927 Vertical Datum (III): MSL

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (6) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): PIPE STATION D-1, 1942 (USE)

Lat.: 35° 52' 20.266 (624.6m.)' Long.: 76° 23' 44.976 (1128.3 m.)

Adjusted

Plane Coordinates (IV): Lamberg State: N.C. Zone:

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

Field Inspection by (II): Matthew A. Stewart, Cartographic Survey Aid
Eugene P. Johnston, Cartographic Survey Aid
Date: Aug.-Sept., 1951

Planetary contouring by (II): Matthew A. Stewart, Cartographic Survey Aid
Date: Oct.-Nov., 1951

Completion Surveys by (II): James E. Hundleby
Date: April 1951

Mean High Water Location (III) (State date and method of location):
only non-tidal water in area. Sept. 1951
Air Photo Compilation

Projection and Grids ruled by (IV): J. A. (W.O.)
Date: 24 Jan. 1952

Projection and Grids checked by (IV): H. D. W. (W.O.)
Date: 25 Jan. 1952

Control plotted by (III): R. E. Smith
Date: 31 March 1952

Control checked by (III): I. I. Saperstein
Date: 1 April 1952

Radial Plot of Stereoscopic
Control extended by (III):
M. M. Slavney
Date: 27 August 1952

Stereoscopic Instrument Compilation (III):
Planimetry Inapplicable
Contours

Manuscript delineated by (III): R. A. Reece
Date: 22 May 1953

Photogrammetric Office Review by (III): J. A. Giles
Date: 27 May 1953

Elevations on Manuscript
checked by (IV) (III): J. A. Giles
Date: 25 May 1953
Camera (kind or source) (III): USGS Nine-lens Camera, 8.25 focal length

PHOTOGRAPHs (III)

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<th>Scale</th>
<th>Stage of Tide</th>
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<td>12:17</td>
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<td>33197</td>
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<td>12:41</td>
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</table>

Tide (III)

Reference Station: No periodic tide
Subordinate Station: No periodic tide
Subordinate Station: No periodic tide

Washington Office Review by (IV): Everett H. Ramsey
Final Drafting by (IV): J. Johnson
Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 42.5
Shoreline (More than 200 meters to opposite shore) (III): 8.5 miles
Shoreline (Less than 200 meters to opposite shore) (III): 0
Control Leveling - Miles (II): 50.5 - fly levels
Number of Triangulation Stations searched for (II): 0
Number of BMs searched for (II): 1
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): 0
Nonmonumented Photo Control Stations Established: 5

Remarks:

Date: 14 Dec 1954
Date: 10-14-55
Summary to Accompany Topographic Map T-9837

Topographic Map T-9837 is one of eleven similar maps of Project Ph-61(49). It covers a small portion of the Scuppernong River and some land area to the southeastward, within Tyrrell and Washington Counties. It includes a portion of Phelps Lake.

Project Ph-61(49) is a graphic compilation project. Field work in advance of compilation included the establishment of additional control, complete field inspection, the delineation of 5-foot contours directly on the photographs by plane-table methods, and the investigation of civil boundaries and geographic names.

Map T-9837 was compiled at a scale of 1:20,000 using nine-lens photographs taken in 1951. The map was field-edited. With the addition of hydrographic information the map will be published by the Geological Survey as a standard topographic quadrangle map.

Items registered under T-9837 will include a descriptive report, a copy at 1:20,000 scale of the map manuscript and a copy of the published map.
FIELD INSPECTION REPORT

2. AREAL FIELD INSPECTION

This area contains about 70% land and 30% water. The water area, for the most part, is that of Lake Phelps. A small portion of Scuppernong River lies in the northeast corner.

The land area is equally divided between cultivated and swamp land.

The area is drained via canals and ditches into the Scuppernong River.

The most prominent natural feature is Lake Phelps and the most prominent cultural features are the incorporated town of Creswell and the unincorporated town of Cherry.

A small portion of the northern shore of Lake Phelps has been dedicated as Pettigrew State Park.

The chief industry is agriculture. This agricultural area is served by U. S. Highway #64 and numerous secondary roads.

The field inspection is believed to be adequate and complete. No difficulty was encountered in the interpretation of the photographs.

3. HORIZONTAL CONTROL

(a) A nonmonumented traverse was measured to establish horizontal control. This traverse was run from Pipe Station D-2, U.S.E., 1942 at Creswell, along connecting secondary roads to traverse point D2-SA-20 located on Thirty-foot Canal Road about one (1) mile north of Lake Phelps. Five photo control points were established and plane coordinate positions computed for the points on the North Carolina Plane Coordinate System.

Control points established are lettered A, B, C, D and E, and are pricked direct on the field photographs.

(c) D-2, U.S.E., 1942 Third order traverse station.

(b), (d), (e) and (f) - Inapplicable.
4. VERTICAL CONTROL

(a) Name                Agency            Order                          Datum
Pipe Station D-2        U.S. Coast & Geod. Surv.  Third  N.A. 1927

(b) Fifty and one-half miles of fly levels were run along all roads in this area to provide control for the planetable contouring. The largest error of closure of any one line was 0.50 foot and this was adjusted by prorating the error throughout the line.

(c) The first and last fly level points are designated 37-01 through 37-94.

(d) Inapplicable.

5. CONTOURS AND DRAINAGE

The contouring was accomplished by standard planetable methods directly on the field photographs.

The drainage in this area consists of canals and ditches. The canals have flood gates to control the water level of Lake Phelps. The drainage is diverted into the Scuppernong River via these canals and ditches.

All drainage in this area is discernible on the photographs.

6. WOODLAND COVER

The cover was classified in accordance with the Topographic Manual.

Sufficient notes have been inked on the photographs to enable the compiler to accurately delineate these areas.

7. SHORELINE AND ALONGSHORE FEATURES

The shoreline consists solely of that around Lake Phelps and is apparent throughout.

The mean high-water line and the mean low-water line are synonymous.

Only non-tidal water in area of map.

All existing piers, etc. have been indicated on the photographs.

Items (c), (d), (f) and (g) are inapplicable.
8. OFFSHORE FEATURES

There are no offshore features in the lake or Scuppernong River.

9. LANDMARKS AND AIDS

There are no landmarks or aids to navigation in the area.

10. BOUNDARIES, MONUMENTS AND LINES

This is the subject of a special report to be submitted at a later date. This report by James C. Hurdley is filed under project data in the Div. of Photogrammetry.

11. OTHER CONTROL

No other control was established.

12. OTHER INTERIOR FEATURES

All roads and buildings were classified in accordance with the Topographic Manual.

There is one bridge over navigable waters (Scuppernong River) in this area. It is a swing type bridge with 30.5 feet horizontal clearance and 3.5 feet vertical clearance. There are no cables over navigable waters in the area.

13. GEOGRAPHIC NAMES

This is the subject of a special report to be submitted at a later date. Report by James C. Cregan filed in Geographic Names Section, Div. of Charts.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

The Control Identification Cards and computations of plane coordinates for control points A, B, C, D and E are submitted with the traverse report for D2-SA traverse.

27 December 1951
Submitted by:

Mathew A. Stewart
Cartographic Survey Aid

27 December 1951
Approved by:

Harry F. Carber
Commander, USCGGS
Chief of Party
PHOTOGRAFMETRIC PLOT REPORT

This report covers all maps of Project Ph-61(49) and is filed as part of the Descriptive Report for T-9834.
<table>
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR ( y )-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>N.A. 1927</td>
<td>35 52</td>
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* Unmonumented station. Less than third order accuracy. *
COMPILATION REPORT T-9837

PHOTOGRAMMETRIC PLOT REPORT.

This report was submitted with T-9834.

31. Delineation.

Compiled by graphic methods. No unusual methods were used.

Questionable areas and details have been noted on the discrepancy overlay. See 35.

32. Control.

Placement, density and identification of control were adequate.

33. Supplemental Data.

None used.

34. Contours and Drainage.

No difficulty was encountered in the delineation of contours and drainage.

35. Shoreline and Alongshore Details.

Shoreline inspection was adequate. See Item 7.

36. Offshore Details.

No statement required. See 38.

37. Landmarks and Aids.

No statement required. See 39.
38. CONTROL FOR FUTURE SURVEYS.

Two (2) Forms 524 are being submitted for Boundary Monuments A and B. These topographic stations have not been listed under Item 49 because they are of no use to the hydrographer. Designations A and B are for photo identification reference only.

39. JUNCTIONS:

Satisfactory junctions have been made with T-9834 on the north, T-9836 on the west, T-9838 on the east and T-9841 on the south.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement required. See §66

41. BOUNDARIES.

The boundary of Pettigrew State Park has been shown according to the legal description given in Special Report on Boundaries - North Carolina - Lat. 35° 37.5' N to 36° 00' N - Project Ph 61(49), December 1951.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with C. of E. Quadrangle COLUMBIA, N. C., scale 1:125,000, dated 1943. Agreement was satisfactory. See §63

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with U. S. C. & G. S. Nautical Chart No. 1228, scale 1:80,000, dated May 1937, corrected to 2 October 1950. SCUPPERNONG RIVER is the only feature shown on the chart that also appears on the manuscript. They are in agreement. See §85

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.
ITEMS TO BE CARRIED FORWARD.

None.

Richard A. Reese, Carto Photo Aid

APPROVED AND FORWARDED:

J.E. Waugh

J.E. Waugh, Chief of Party
GEOGRAPHIC NAME LIST.

AMBROSE ROAD

BEE TREE CANAL

BONARVA CANAL

CHERRY

CRESWELL

CONCORD CHURCH

GALILEA MISSION

PHELPS LAKE

MOCCASIN CANAL

MT. HERMON CHURCH

MT. TABOR

MOUNTAIN CANAL

NEWLAND ROAD

NINE FOOT CANAL

NORTH CAROLINA

OLD CANAL

PETTICREW STATE PARK

PHELPS BRIDGE

PHILIPPI CHURCH

ST. DAVIDS CHURCH

ST. MARKS CHURCH

SCUPPERNONG RIVER

SCUPPERNONG TOWNSHIP

SKINNERSVILLE TOWNSHIP

SOUTH FORK TOWNSHIP

SPRUILLS BRIDGE

TEN FOOT CANAL

THIRTY FOOT CANAL

TIRRELL COUNTY

WASHINGTON COUNTY

WESTERN CANAL

Woodleys Chapel See §§8

Predominant published map usage is Phelps Lake; local usage appears to be Lake Phelps. Legal usage by act of state legislature in 1830 is Lake Scuppernong, but it does not appear to have been used on any available published map. Either Lake Phelps or Phelps Lake is acceptably pending action by R. G. N.

Names approved

8-14-53

L. Heck
49. NOTES FOR THE HYDROGRAPHER.

Inapplicable. Inshore quadrangle.
FIELD EDIT REPORT  
Project Ph-61/49  
Quadrangle T-9837

51. METHODS

The field edit of this area was accomplished by standard surveying methods in conjunction with visual inspection. Actual field work was completed in April 1954.

Field edit data appears on the field edit sheet, discrepancy print, field photographs 33182, 33183, 33195, 33196, 33197 and in this report.

A legend appears on the field edit sheet, which is self-explanatory.

52. ADEQUACY OF COMPILATION

The map compilation is adequate and will be complete after the field edit revisions have been applied. See §46

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good.

The accuracy of the contouring, in general, is good.

Minor contour corrections (to improve expression) were made throughout the entire area. These corrections are shown on field photographs 33182, 33183, 33196 and 33197.

54. RECOMMENDATIONS

Recommend that item "55 - Examination of Proof Copy", of this report be discontinued for the following reason: It is believed that the field editor does a more thorough job of checking the accuracy of compilation of any area than some uninterested individual.

55. See item "54" above.

56. DRAINAGE

Refer to item "5 - Field Inspection Report".

Numerous "feeder" ditches have been deleted from the field edit sheet.

Additional main drainage ditches (or natural streams) have been shown on the field edit sheet.

57. OTHER INTERIOR FEATURES

Refer to item "12 - Field Inspection Report."

Reclassification of roads and buildings has been made, where justifiable, and shown on the field edit sheet.
Quadrangle T-9837

57. OTHER INTERIOR FEATURES (cont'd)

Additional roads (old and new) have been shown on the field edit sheet.

Additional buildings have been shown on the field edit sheet.

58. GEOGRAPHIC NAMES

Refer to item "13 - Field Inspection Report".

One additional name was obtained, i.e., WOODLEY'S CHAPEL. This name was verified in the field and noted on the discrepancy print.

NOTE: There is a church by the identical name located in the area covered by T-9838.

59. JUNCTIONS

Satisfactory junctions have been made with all adjacent contemporary quadrangles.

Respectfully submitted
21 May 1954

James E. Hundley
Cartographer

Approved

E. H. Kirsch

E. H. Kirsch,
Comdr. USCG
Officer in Charge

* I believe that a strong effort should be made to find one or more residents in the area who are intimately acquainted with the area, and who are interested and qualified, to examine a proof copy for errors.

E. H. Kirsch
PHOTOMGRAMMETRIC OFFICE REVIEW

T- 9837


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES

MISCELLANEOUS

Reviewer
Joseph A. Urist

Supervisor, Review Section or Unit
William A. Ramsey

Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT by Tampa [ENH]

Compiler

Supervisor

43. Remarks:

M-2023-12
Review Report
Topographic Map T-9837
14 December 1954

62. Comparison with Registered Topographic Surveys: None.

63. Comparison with Maps of Other Agencies
Columbia Quadrangle (C. of E. 1:125,000) 1943
A visual comparison reveals a few changes in culture.

64. Comparison with Contemporary Hydrographic Surveys: None

65. Comparison with Nautical Charts:
1228 1:80,000 1937 corrected to 53-5/11

The vertical clearance for Spruills Bridge was measured by the field editor as 3 feet instead of 3 ½ feet as charted. Otherwise there are no significant differences. Changes made by the field editor are shown on a vinylite impression of the manuscript in purple ink. Corrections by the reviewer are in red ink.

66. Adequacy of Results and Future Surveys:

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

Reviewed by:

Everett H. Hamey

Approved by:

Lester C. Lande
Chief, Review Branch
Division of Photogrammetry
21 June 57

Chief, Division of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

Chief, Division of Coastal Surveys
<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
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<td>1228</td>
<td>Knock</td>
<td>Complete Application</td>
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<tr>
<td></td>
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<td>Before After Verification and Review</td>
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</tbody>
</table>

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.