9837

Diag. Cht. No. 1228

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

194~~5~~1-54

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE June 27, 1957

8-1870-1 (1)

9837

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

Date received in Washington Office (IV): JUL 13 1953 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 (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): PIPE STATION D-1, 1942 (USE)

Lat.: 35° 52' 20".266 (624.6m.) Long.: 76° 23' 44".976 (1128.3 m.) Adjusted ~~Unadjusted~~

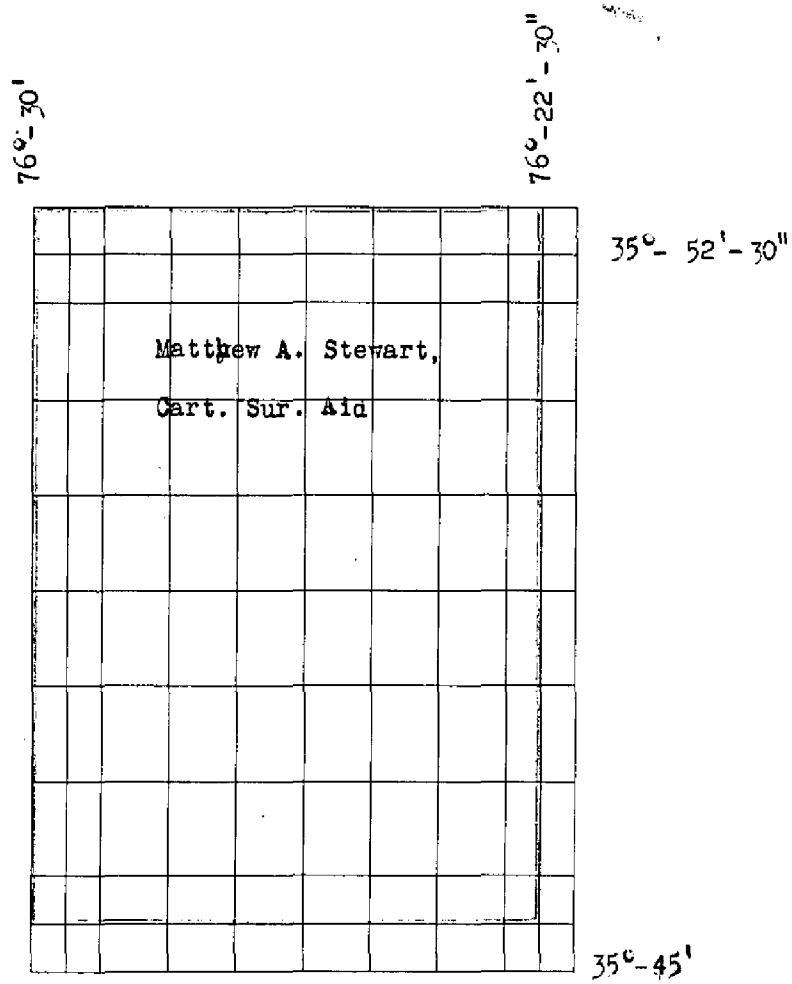
Plane Coordinates (IV): Lambert State: N.C. Zone:

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.

M-2618-12(4)



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

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

Completion Surveys by (II): James E. Hundley
Date: April 1954

Mean High Water Location (III) (State date and method of location): Only non-tidal water in area. ~~MHW~~
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 or ~~Stereoscopic~~ Control extension by (III): M. M. Slavney
Date: 27 August 1952

Stereoscopic Instrument compilation (III): Planimetry Inapplicable
Date:
Contours
Date:

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 ~~(II)~~ (III): J. A. Giles
Date: 25 May 1953

M-2618-12(4)

Camera (kind or source) (III): USC&GS Nine-lens Camera, 8.25 focal length

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
33182	17 March 1951	12:17	1:20,000	No periodic tide
33183	"	12:18	"	"
33184	"	12:21	"	"
33195	"	12:38	"	"
33196	"	12:39	"	"
33197	"	12:41	"	"

EWR Non-Tidal

Tide (III)

Reference Station: No periodic tide

Subordinate Station:

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): Everett H. Ramey Date: 14 Dec 1954

Final Drafting by (IV): F. Johnson Date: 10-14-55

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

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 Recovered: 0 Identified:

Number of BMs searched for (II): 1 Recovered: 1 Identified: 1

Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III): 0

Nonmonumented Photo Control Stations Established: 5

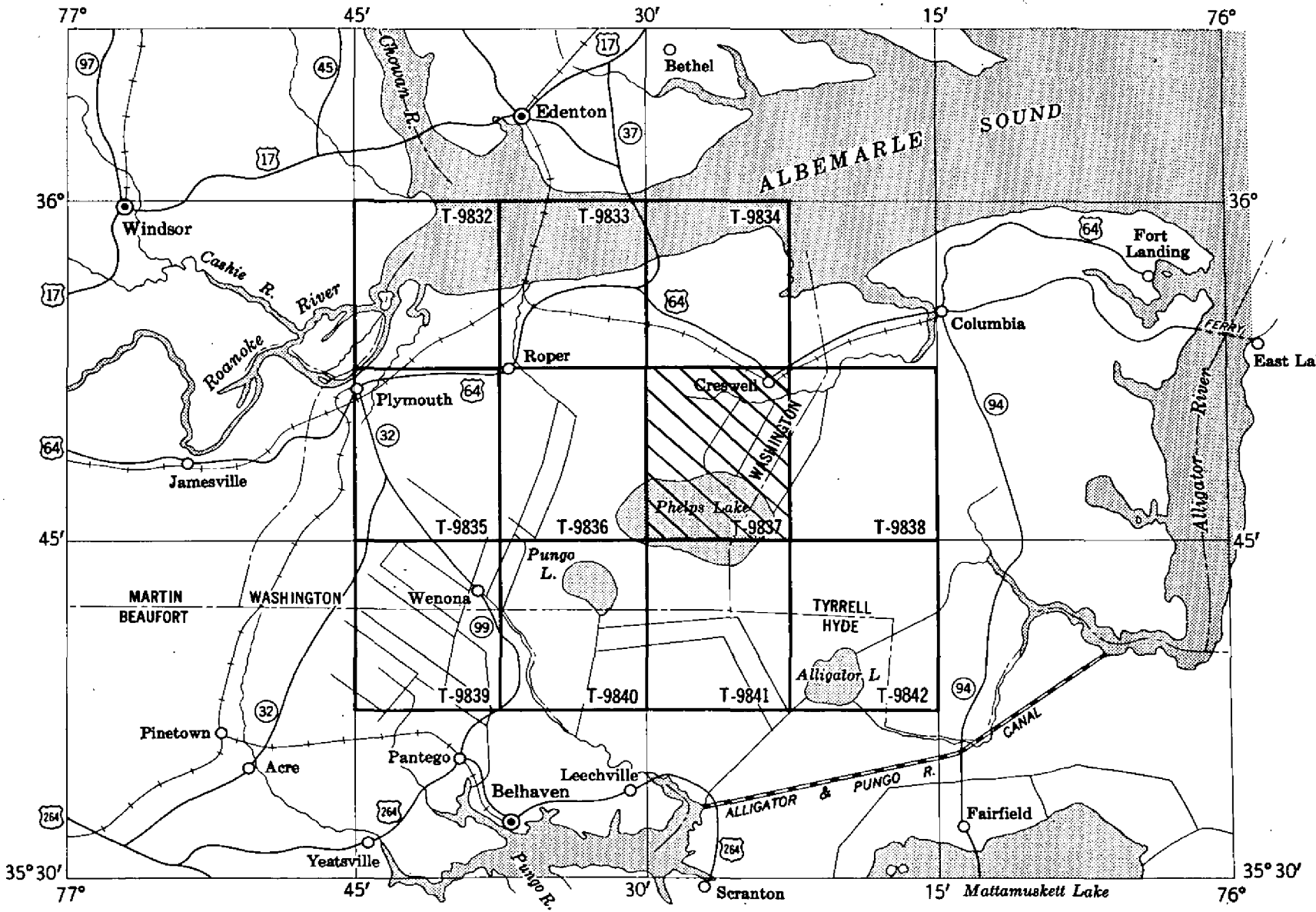
Remarks:

M-2618-12(4)

TOPOGRAPHIC MAPPING PROJECT PH-61-(49)

NORTH CAROLINA, Albemarle Sound and Vicinity

Compilation scale 1:20,000



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 CRONAR 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. EHK

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. EHR

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 E. Hundley is filed under project data in the Div. of Photogrammetry. EHR

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:

Matthew A. Stewart
Matthew A. Stewart,
Cartographic Survey Aid

27 December 1951
Approved by:

Allen L. Powell
for Harry F. Garber
Commander, USC&GS
Chief of Party

PHOTOGRAMMETRIC PLOT REPORT

This report covers all maps of Project Ph-61(49) and is filed as part of the Descriptive Report for T-9834.

MAP T- 9837 PROJECT NO. Ph-61(49) 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 FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
~~PIPE STATION~~ ~~D-1, 1942 (USE)~~	Bull Bay Quad 1	N.A. 1927	~~35 52 20.266~~ ~~76 23 44.976~~			~~624.6 (1224.6)~~ ~~1128.3 (376.9)~~	Recovered in disturbed condition. EMR
PIPE STATION D-2, 1942 (USE)	Bull Bay Quad 2	"	35 52 20.926 76 23 28.469			644.9 (1204.3) 714.2 (791.0)	
CONTROL PT. "A" *	Field Comp	"	778,652.39 2,774,871.67	8,652.39 (1,347.61) 4,871.67 (5,128.33)			
CONTROL PT. "C" *	"	"	768,897.11 2,776,245.82	8,897.11 (1,102.89) 6,245.82 (3,754.18)			
CONTROL PT. "D" *	"	"	764,325.41 2,773,832.46	4,325.41 (5,674.59) 3,832.46 (6,167.54)			
CONTROL PT. "E" *	"	"	757,723.07 2,770,384.83	7,723.07 (2,276.93) 384.83 (9,615.17)			

* Unmonumented station. Less ~~than~~ third-order accuracy. EMR

1 FT. = .3048006 METER

COMPUTED BY: I. I. Saperstein DATE 14 March 1952 CHECKED BY: R. J. Pate DATE 21 March 1952

M-2388-12

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 §52

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 §8

37. LANDMARKS AND AIDS.

No statement required. See §9

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. SHK

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 §44

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 §43

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 §45

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Richard A. Reese

Richard A. Reese, Carto Photo Aid

APPROVED AND FORWARDED:

J. E. Waugh

J. E. Waugh, Chief of Party

48. GEOGRAPHIC NAME LIST.

AMBROSE ROAD

BEE TREE CANAL
BONARVA CANAL

CHERRY
CRESWELL
CONCORD CHURCH

GALILEE MISSION

~~LAKE~~ PHELPS Lake

MOCCASIN CANAL
MT HERMON CHURCH
MT TABOR
MOUNTAIN CANAL

NEWLAND ROAD
NINE FOOT CANAL
NORTH CAROLINA

OLD CANAL

PETTIGREW STATE PARK
PHELPS BRIDGE
PHILIPPI CHURCH

ST DAVIDS CHURCH
ST MARYS CHURCH
SCUPPERNONG RIVER
SCUPPERNONG TOWNSHIP
SKINNERSVILLE TOWNSHIP
SOUTH FORK TOWNSHIP
SPRUILLS BRIDGE

TEN FOOT CANAL
THIRTY FOOT CANAL
TYRRELL COUNTY

U. S. 64

WASHINGTON COUNTY
WESTERN CANAL

Woodleys Chapel See §58 12-9-54

Predominant published map usage is Phelps Lake; local usage appears to be Lake Phelps. Legal name by act of state legislature in 1850 is Lake Scuppernong, but it does not appear to have been used on any available published map. Either Lake Phelps or Phelps Lake is acceptable, pending action by B. 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 "[redacted] J.E.H. [redacted]d "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.

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
James E. Hundley
Cartographer

Approved

E. H. Kirsch
E. H. Kirsch,
Comdr. USC&GS
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

Form T-2

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9837

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

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. Photo hydro stations XX 8. Bench marks J.G. 9. Plotting of sextant fixes XX 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line J.G. 14. Rocks, shoals, etc. XX 15. Bridges J.G. 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features J.G. 19. Other alongshore cultural features J.G.

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours J.G. 23. Stereoscopic instrument contours XX 24. Contours in general J.G. 25. Spot elevations J.G. 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. 29. Railroads J.G. 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines J.G. 32. Public land lines XX

MISCELLANEOUS

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

40. Jesse A. Giles — Reviewer

William A. Rasure — William A. Rasure — Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

by Tampa. EHR

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:*

M-2623-12

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 3½ 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. Ramey
Everett H. Ramey

Approved by:

Lester C Lande
Chief, Review Branch
Division of Photogrammetry

Mark Ricketts
Chief, Nautical Chart Branch
Division of Charts

Chief, Div. of Photogrammetry

27 June '57

Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 9837

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6-20-62	1228	Knoop	Complete Application ~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.