

9840

Diag. Cht. No. 1231-2.

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-9840

LOCALITY

State North Carolina

General locality Pungo River

Locality Pungo Lake

194/ 51-54

CHIEF OF PARTY

H.F. Garber, Chief of Field Party

J.E. Haugh, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE June 24, 1958

9840

DATA RECORD

T - 9840

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, Fla.

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 20 1953

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV): **JUL 28 1953**

Applied to Chart No.

Date:

Date registered (IV): **23 April 1957**

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): WAY, 1933 ✓

*{ S. of map limits.
No station on this map. } ^{ette}*

Lat.: 35° 33' 51".441 (1585.4 m.) ✓ Long.: 76° 31' 54".944 (1383.7 m.) ✓

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State: **N.C.**

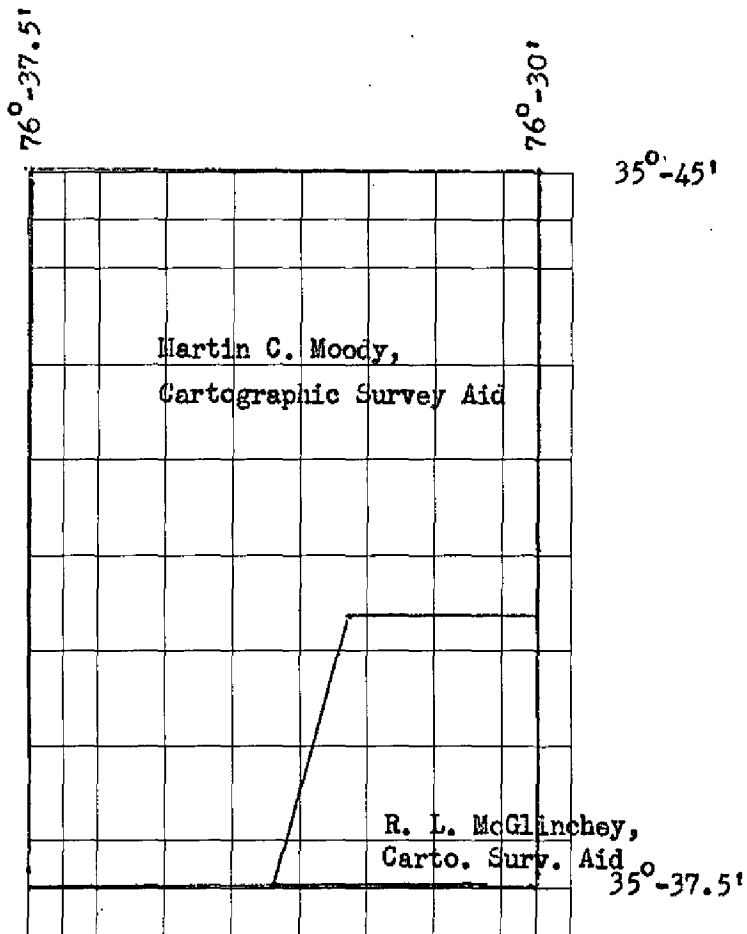
Zone:

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.



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

DATA RECORD

Field Inspection by (II): **Martin C. Moody,** Date: **November, 1951**
Cartographic Survey Aid

Planetable contouring by (II): **Martin C. Moody,** Date: **Oct.-Nov., 1951**
Cartographic Survey Aid
Richard L. McGlinchey,
Cartographic Survey Aid

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

Mean High Water Location (III) (State date and method of location): **Inapplicable**
March 1951 Air Photo Compilation

Projection and Grids ruled by (IV): **J. A. (W.O.)** Date: **28 Jan. 1952**

Projection and Grids checked by (IV): **H. D. W. (W.O.)** Date: **5 Feb. 1952**

Control plotted by (III): **R. E. Smith** Date: **1 April 1952**

Control checked by (III): **I. I. Saperstein** Date: **2 April 1952**

Radial Plot ~~or Stereoscopic~~ Date: **15 Aug. 1952**
~~Control extension~~ by (III): **M. M. Slavney**

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

Manuscript delineated by (III): **R. Dossett** Date: **24 April 1953**

Photogrammetric Office Review by (III): **J. A. Giles** Date: **7 May 1953**

Elevations on Manuscript **J. A. Giles** Date: **27 April 1953**
 checked by (X) (III):

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
33163	17 March 1951	1152	1:20,000	<i>inapplicable</i> None
33164	"	1153	"	"
33165	"	1153	"	"
33166	"	1154	"	"
33154	"	1135	"	"
33155	"	1136	"	"
33156	"	1136	"	"
33157	"	1137	"	"

Tide (III)

Reference Station: **Inapplicable**
 Subordinate Station:
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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

Date: *30 Dec 1954*

Final Drafting by (IV): *F. Johnson*

Date: *11-1-55*

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **56.5**

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

Shoreline (Less than 200 meters to opposite shore) (III): **4**

Control Leveling - Miles (II): **(Fly levels) 16**

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II): **4**

Recovered: **4**

Identified: **4**

Number of Recoverable Photo Stations established (III): **0**

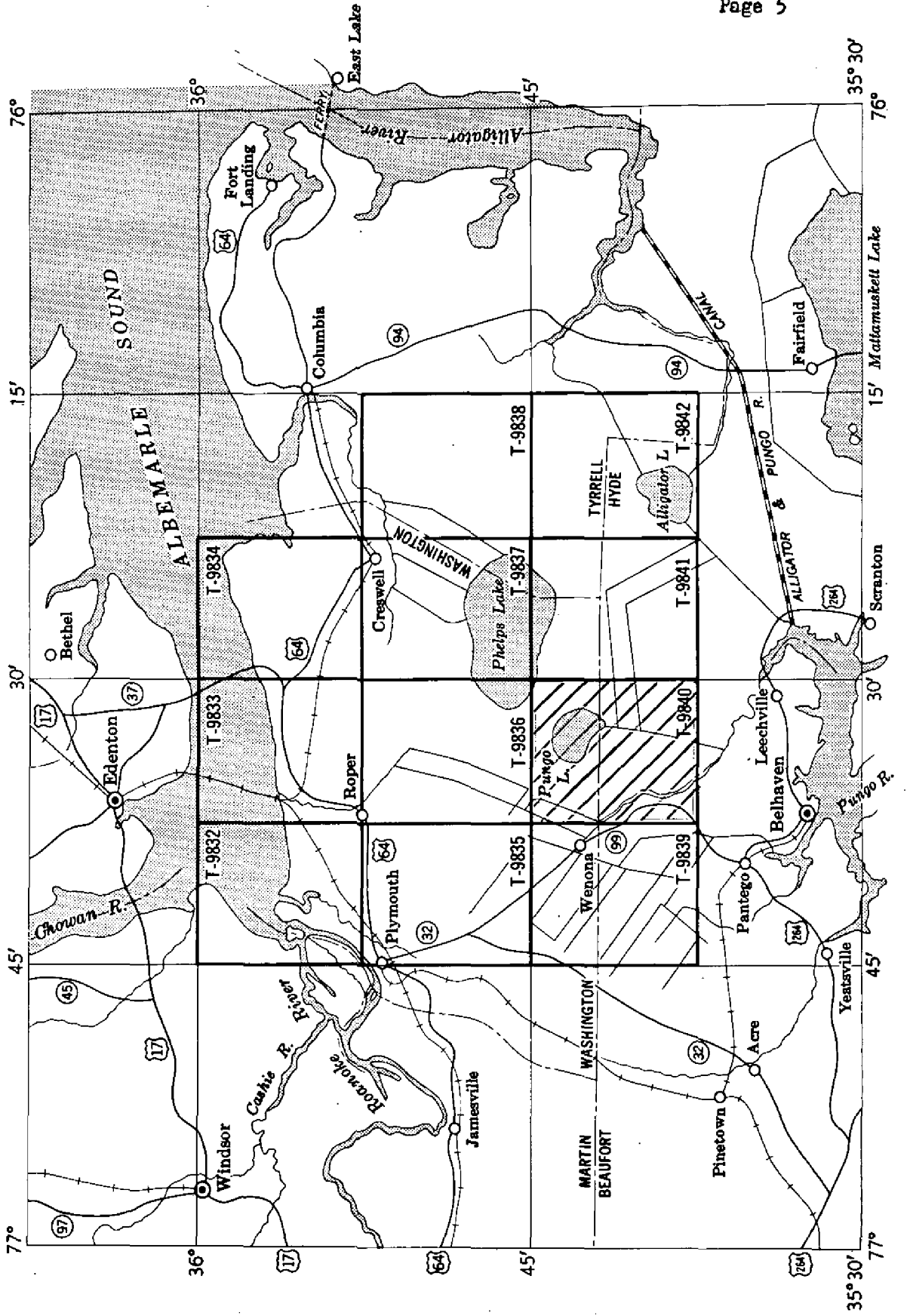
Number of Temporary Photo Hydro Stations established (III): **0**

Non-monumented Photo Control Stations Established: 2

Remarks:

TOPOGRAPHIC MAPPING PROJECT PH-61-(49)
NORTH CAROLINA, Albemarle Sound and Vicinity

Compilation scale 1:20,000



Summary to Accompany Topographic Map T-9840

Topographic map T-9840 is one of eleven similar maps in Project Ph-61(49). It covers Pungo Lake and adjacent land area in Washington and Hyde Counties, North Carolina.

Project Ph-61(49) is a graphic compilation project. Field work in advance of compilation included the recovery and identification of horizontal and vertical control, the establishment of some additional control, complete shoreline and interior inspection, the delineation of 5-foot contours directly on the photographs by planetable methods and the investigation of geographic names and political boundaries.

Map T-9840 was compiled at a scale of 1:20,000 using nine-lens photographs taken in 1951. The map was field edited.

Items registered under T-9840 will be a descriptive report, copies of the map manuscript at a scale of 1:20,000 and the published map at a scale of 1:24,000.

FIELD INSPECTION REPORT

In addition to those phases listed on pages 2 and 3, the field work was accomplished by the following personnel:

<u>Name and Title</u>	<u>Phase</u>	<u>Date</u>
Henry R. Spies, Cartographic Survey Aid	Horizontal Control	December, 1951
Matthew A. Stewart, Cartographic Survey Aid	Third Order Levels	July, 1951
Martin C. Moody, Cartographic Survey Aid	Fly Levels	September, 1951

2. AREAL FIELD INSPECTION

Except for a small portion in the ^{West} east, the entire quadrangle is in its natural state (marsh, swamp and woodland).

North Carolina Highway No. 99 serves the communities of Union Grove and Pungo, located in the southwestern corner of the quadrangle.

The northwestern portion is served by secondary roads built on spoil banks along the canals.

The salient natural feature is Pungo Lake located in the north central part of the quadrangle.

Agriculture is the principal industry.

The field inspection is believed to be complete.

3. HORIZONTAL CONTROL

A nonmonumented traverse was measured to establish horizontal control. This traverse was run from CI-RE-1, 1951, along North Carolina Highway No. 99 to Wenona, thence along connecting secondary roads to traverse point CR-SA-25 near the northwestern corner of Pungo Lake. Control Points EE and FF were established, and plane coordinate positions completed for these points.

For control identified for Ph-20, see special report submitted with Quadrangle T-9839.

4. VERTICAL CONTROL

(a) Bench marks in the quadrangle are:

<u>Name</u>	<u>Agency</u> **	<u>Order</u>
N-250, 1951 7	U. S. Coast & Geodetic Survey	Third (unadjusted)*
P-250, 1951 c	"	"
Q-250, 1951 4	"	"
R-250, 1951 c	"	"

* Since report was written, bench marks have been adjusted. *smk*

(b) Sixteen miles of fly levels were run, beginning and closing on bench marks. The greatest error of closure was 0.49 foot. All lines with an error of 0.30 foot or more were adjusted.

(c) The first and last fly level points are 40-01 and 40-23.

** One bench mark by USGS was recovered and identified. *smk*

5. CONTOURS AND DRAINAGE

The contouring was done by planetable methods directly on field photographs at five (5) foot intervals.

The entire quadrangle is very flat, with the exception of a few ridges in the southwestern portion. Drainage is via canals into Pungo River.

6. WOODLAND COVER

The woodland cover was classified in accordance with the Topographic Manual. It is believed that sufficient areas have been delineated on the photographs to enable the compiler to establish a tone classification.

7. SHORELINE AND ALONGSHORE FEATURES

The only shoreline consists of that around Pungo Lake.

The rise and fall of the water in the lake is due to rainfall only. The ~~mean~~ ^{high} high water line has been indicated on the field photographs.

There are no docks, piers, wharves or submarine cables.

8. OFFSHORE FEATURES

There are no offshore features.

9. LANDMARKS AND AIDS

There are no landmarks or aids.

10. BOUNDARIES, MONUMENTS AND LINES

A special report for the project will be submitted at a later date. *This report by James E. Hundley is filed under project data in the Div. of Photogrammetry.*

11. OTHER CONTROL

There is no other control.

12. OTHER INTERIOR FEATURES

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

13. GEOGRAPHIC NAMES

A special report for the project will be submitted at a later date. *This report is filed in the Geographic Names Section Div. of Charts.*

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

The Control Identification Cards and Computations of Plane Coordinates for Control Points EE and FF are submitted with report of traverse, CI-RE-1 to CR-SA-25.

14 December 1951
Submitted by:

Martin C. Moody
Martin C. Moody,
Cartographic Survey Aid

14 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. 9840

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		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)	FORWARD	(BACK)
CONTROL PT. "EE"	Field Comp.	N.A. 1927	724,619.31 2,712,036.12	4,619.31 (5,380.69) 2,036.12 (7,963.88)						
CONTROL PT. "FF"	"	"	726,451.39 2,718,430.17	6,451.39 (3,548.61) 8,430.17 (1,569.83)						

Non-monumented
Less than 3rd order. EAR

COMPILATION REPORT T-9840

PHOTOGRAMMETRIC PLOT REPORT.

This report was submitted with T-9834.

31. DELINEATION.

Compiled graphically. The photographs were of reasonably good scale.

The field inspection was adequate.

32. CONTROL.

While there was no primary control within the limits of this map manuscript, a sufficient number of well placed pass points were established so that no difficulty was encountered while cutting in details points.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

Only the main drainage ditches have been shown. The names of some drainage supplementary to Pungo River before the canal was cut were shown on the Geographic Name Sheet but the features were not visible on the photographs so they could not be mapped. These have been referred to the field editor. *See § 55*

Contours by the field topographer showed reasonably good character and have been so delineated.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate and delineated according to field inspection notations.

36. OFFSHORE DETAILS.

None.

37. LANDMARKS AND AIDS.

None.

38. CONTROL FOR FUTURE SURVEYS.

None.

39. JUNCTIONS.

A satisfactory junction has been made with T-9836 on the north, T-9839 on the west, T-9841 on the east and T-8970(Ph-20) on the south. *See §67*

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement required.

See §66

46. COMPARISON WITH EXISTING MAPS.

A comparison was made with U. S. Corps of Engineers Quadrangle "PLYMOUTH", scale 1:125,000, compiled in 1942. No outstanding differences were noted.

See §63

47. COMPARISON WITH NAUTICAL CHARTS.

Area does not appear on the Nautical Charts.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

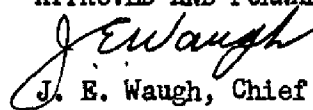
None.

ITEMS TO BE CARRIED FORWARD.

None.


Rudolph Dossett
Carto Photo Aid

APPROVED AND FORWARDED


J. E. Waugh, Chief of Party

FIELD EDIT REPORT
Project PH-61(49)
Quadrangle T-9840

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 June, 1954.

Field edit data appears on the field edit sheet, discrepancy print, field photographs 33155, 33155-A, 33156-A, 33164, 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 field edit revisions have been applied.

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good.

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

54. RECOMMENDATIONS

Recommend that Item 55 - "Examination of Proof Copy" 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. GEOGRAPHIC NAMES

Refer to Item 48 - Compilation Report.

See 366

✓ 1. According to information obtained from majority of local inhabitants, the name of the canal leading from Pungo Lake to Pungo River is FUNGO LAKE CANAL. Recommend the name FUNGO LAKE CANAL to replace the name HYDE PARK CANAL.

✓ 2. The name DEVILS ELBOW LANDING is erroneous. It should be DEVILS ELBOW.

✓ 3. The name WHITE OAK LANDING is correct and its position has been properly shown on the field edit sheet.

✓ 4. The name GROSS RIDGE GUT is locally known, but the feature is almost impossible to place since the Pungo River Canal has obliterated it. Recommend this name be deleted from the map.

✓ 5. The name INDIAN LANDING is locally known, and its position has been properly shown on the field edit sheet.

✓ The names WHITE OAK LANDING, INDIAN LANDING, and DEVILS ELBOW are known locally, but do not have a great latitude of renown.

✓ 6. The name DOGWOOD RIDGE is no longer in use. Recommend the name be deleted from the map.

56. DRAINAGE

Refer to Item 34 - Compilation Report.

All feeder ditches have been deleted from the field edit sheet. Those ditches that have been deleted are intermittent drainage only. All perennial (main) drainage has been shown on the field edit sheet. It will be noticed that several lateral ditches have been shown as main drainage in large areas of marsh. This is perfectly logical in these particular areas.

57. OTHER INTERIOR FEATURES

Refer to Item 12 - Field Inspection Report.

The reclassification of roads and buildings, where justifiable, has been shown on the field edit sheet. Additional buildings have been shown on the field edit sheet.

58. JUNCTIONS

Satisfactory junctions have been made with all adjacent contemporary surveys.

25 June 1954
Submitted by:

James E. Hundley
James E. Hundley
Cartographer

25 June 1954
Forwarded by:

J. E. Waugh
J. E. Waugh
CDR, USC&GS
Chief of Party

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PHOTOGRAMMETRIC OFFICE REVIEW

T- 9840

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 XX 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 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 XX 14. Rocks, shoals, etc. XX 15. Bridges XX 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features J.G. 19. Other along-shore cultural features XX

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. Rasuro Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

by Tampa

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-9840
30 December 1954

62. Comparison with Registered Topographic Surveys: None

63. Comparison with Maps of Other Agencies

Plymouth Quadrangle (C. of E., 1:125,000) 1943.
There are differences in culture, drainage and swamp limits. Only a visual comparison was made.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable.

65. Comparison with Nautical Charts

None covers this area.

66. Adequacy of Results and Future Surveys

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

67. Junctions

Discrepancies at the junction with T-8970 (1951) result in cultural changes since 1951. They are: position of a trail at long. $76^{\circ} 36.1'$, width of Pungo River Canal, and a dismantled railroad at long. $76^{\circ} 34.5'$.

Reviewed by:

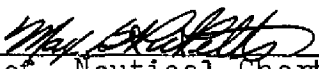


Everett H. Ramey

Approved by:



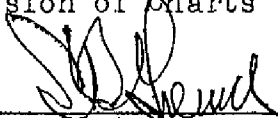
Chief, Review & Drafting Sec.
Division of Photogrammetry



Chief, Nautical Chart Branch
Division of Charts



Chief, Div. of Photogrammetry

Chief, Division of Coastal

48. GEOGRAPHIC NAME LIST.

BEAUFORT COUNTY ✓
BEECH RIDGE ✓
BRIGHTS RIDGE ✓

CANAL A ✓
CANAL B ✓
CANAL C ✓
CANAL D ✓
CHINQUAPIN RIDGE ✓
CURRITUCK TOWNSHIP ✓

DAVIS LANDING ✓
 * DEVILS ELBOW LANDING ✓

*= turn in Pungo River Canal
See § 55*

ELBOW LANDING ✓

* GRASS RIDGE GUT ✓ *= delete See § 55*
GREAT BRANCH ✓

HOLLY RIDGE ✓
HUNTINHOUSE CANAL ✓
HYDE COUNTY ✓

* HYDE PARK CANAL *delete See § 55*

* INDIAN LANDING ✓
INDIAN RUN ✓

See § 55

LAKE CANAL ✓
LAKE PHELPS *lake* ✓
LEES MILLS TOWNSHIP ✓

NORTH CAROLINA

OAK RIDGE ✓
OLD TURNPIKE ✓
OREGON CANAL ✓

PANTEGO TOWNSHIP ✓
PLUM RIDGE ✓

PUNGO ✓
PUNGO LAKE ✓
PUNGO RIVER CANAL ✓

PUNGO LAKE CANAL ✓

48. GEOGRAPHIC NAME LIST. (CONTINUED)

* SCUPPERNONG TOWNSHIP ✓
STATE 99

* THIRD TRIBUTARY ✓

* UNION GROVE ✓

* WASHINGTON COUNTY ✓
WHITE CYPRESS TRIBUTARY ✓

* WHITE OAK LANDING ✓ See §§§

* ~~To be investigated by field editor~~

Names approved 9-29-53,
on basis of project names
report. L. Heck.

Names re-checked 12-29-54,
after field edit.

49. NOTES FOR THE HYDROGRAPHER.

None.