

8994

ORIGINAL

Diag. Cht. No. 1231-2

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	TOPOGRAPHIC
Field No.	Office No. T-8994
LOCALITY	
State	NORTH CAROLINA
General locality	PAMLICO SOUND
Locality	HOG ISLAND
<u>1945</u>	
CHIEF OF PARTY	
E. R. McCarthy, Chief of Pd. Party	
Arthur L. Wardwell, Temple Photogram-	
metric Office	
LIBRARY & ARCHIVES	
DATE	March 14, 1952

B-1870-1 (1)

8994

DATA RECORD

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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): **1-23-51** Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **5 Feb 1952**

Publication Scale (IV):

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 waterReference Station (III): **HOG ISLAND SHOAL BN., 1933**Lat.: **35° 21' 55".397 (1707.2m)** Long.: **76° 03' 16".162 (408.0m)**Adjusted
~~XXXXXX~~Plane Coordinates (IV): **Lambert**State: **N.C.**

Zone:

Y= **600 920.20**X= **2 878 026.13**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.

All Contouring done
by:
E. L. Williams
Cartographer

Areas contoured by various personnel
(Show name within area)
(11) (##)

DATA RECORD

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Field Inspection by (II): **E. L. Williams, Cartographer**

Date: 15 March 1949
to
20 May 1949

Planetable contouring by (II): **E. L. Williams, Cartographer**

Date: 20 April 1949
to
3 May 1949

Completion Surveys by (II): **None**

Date:

Mean High Water Location (III) (State date and method of location):

20 May 1949

Air Photo Compilation

Photographs 1948

Projection and Grids ruled by (IV): **W. E. W. (Washington Office)**

Date: 9 June 1948

Projection and Grids checked by (IV): **W. E. W. (Washington Office)**

Date: 9 June 1948

Control plotted by (III): **R. R. Wagner**

Date: 28 Sept. 1948

Control checked by (III): **R. E. Smithey**

Date: 28 Sept. 1948

Radial Plot ~~not stereoscopic~~
~~contour extension~~ by (III):

M. M. Slavney

Date: 12 April 1950

Stereoscopic Instrument compilation (III):
Planimetry
Inapplicable
Contours

Date:

Date:

Manuscript delineated by (III): **R. A. Reece**

Date: 25 July 1950

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

Date: 28 Sept. 1950

Elevations on Manuscript
checked by ~~XX~~ (III):

J. A. Giles

Date: 25 Sept. 1950

Camera (kind or source) (III): U. S. C. & G. S. Nine lens, $8\frac{1}{2}$ " focal length

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
22249	29 March 1948	15:46	1:20,000	No periodic tide *

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

No periodic tide *

Ratio of Ranges	Mean Range	Spring Range

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

Date: 5 Dec 1951

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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

3.0

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

5.0

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

1.1

Control Leveling - Miles (II): 0

Number of Triangulation Stations searched for (II):

1

Recovered: 1

Identified: 1

Number of BMs searched for (II): 0

Recovered: 0

Identified: 0

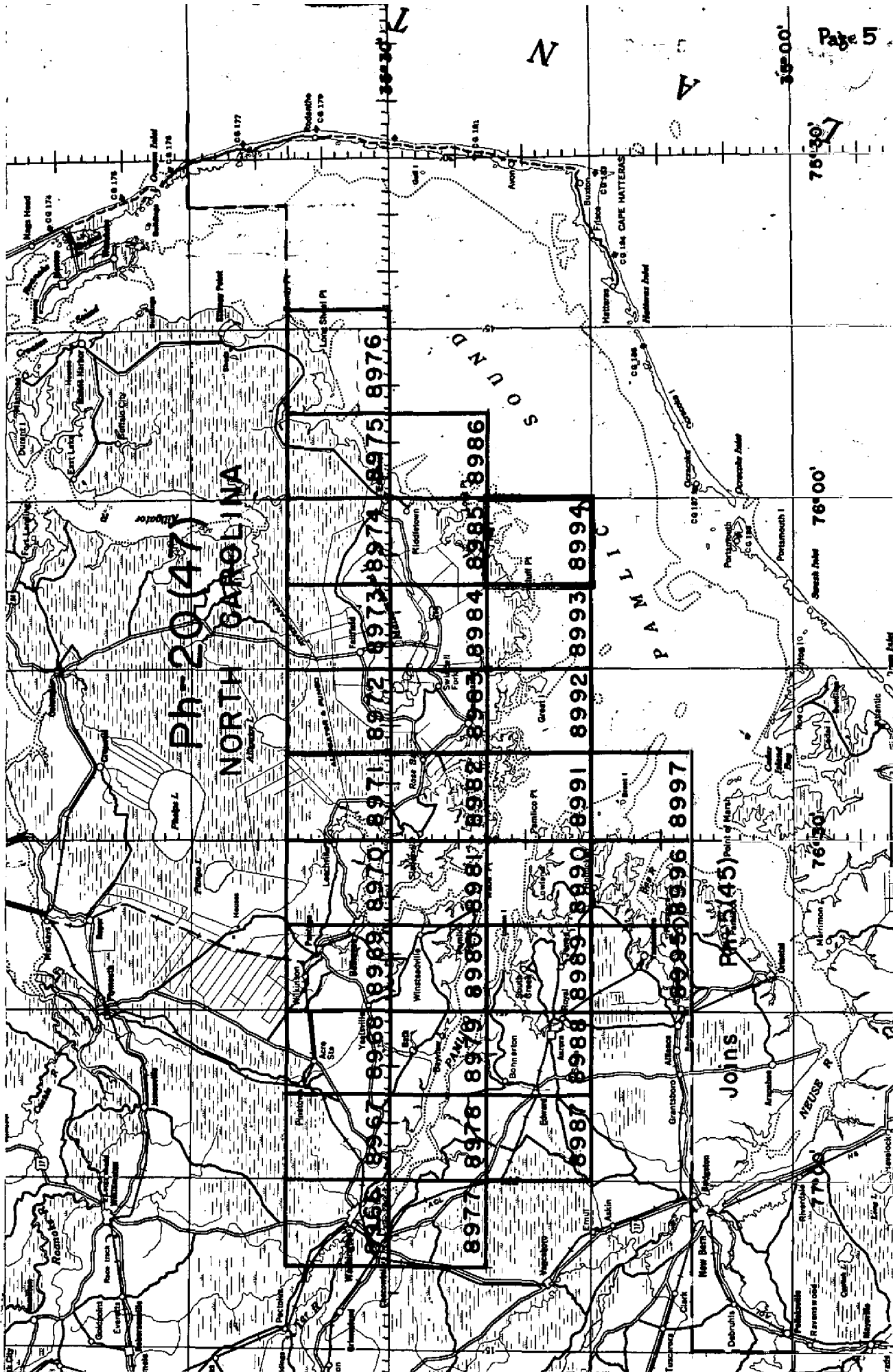
Number of Recoverable Photo Stations established (III):

2

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

* The periodic tide is negligible. EHR



SUMMARY TO ACCOMPANY MAP T-8994

Topographic map T-8994 is one of 32 similar maps of Project Ph-20(47). It covers a portion of Pamlico Sound and some land area adjacent.

Project Ph-20(47) is a graphic compilation project. Operations preceding compilation included complete field inspection, the recovery and identification of horizontal control, and topography by planetable methods.

Map T-8994 was compiled at a scale of 1:20,000 and covers $7\frac{1}{2}'$ in latitude by $7\frac{1}{2}'$ in longitude. After the addition of hydrographic data by the Nautical Chart Branch, the map will be published by the Geological Survey as a standard topographic quadrangle.

Items registered under T-8994 will include a cloth-mounted lithographic print of the map 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-8994
 35-15/ 76-00/7.5
 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 field work was accomplished by:

<u>Name and Title</u>	<u>Phase</u>	<u>Date</u>
E. L. Williams Cartographer	Contours	March 15
		to
	Horizontal control Recovery, Shoreline and Field Inspection	May 23, 1949

This report is written in accordance with Chapter 7, Paragraph 724 of the preliminary edition of the Topographic Manual dated June, 1949.

2. AREAL FIELD INSPECTION

The quadrangle ^{area} is uninhabited and is accessible only by boat from Pamlico Sound or from Route 264 by the Outfall Canal. The land mass consists of 3 square miles, of which about one third is marsh and the remainder very flat wooded land which is usually flooded in winter.

The most prominent cultural feature is the southern terminus of the Outfall Canal, which was dredged to drain Mattamuskeet Lake for farming. This project was abandoned and the canal is now used by fishermen for access to Pamlico Sound, and by the Wildlife Service to control the water level of Mattamuskeet Lake.

The quality of the photographs was satisfactory. No difficulty was encountered in interpretation.

The field inspection is believed to be complete.

3. HORIZONTAL CONTROL

The only station, HOG ISLAND SHOAL BN, 1933, in the quadrangle was recovered and identified.

4. VERTICAL CONTROL

(a). Inapplicable.

(b). No fly levels were run as the water level was used to control the elevations. A check was made at the New Holland bridge over the Outfall Canal each morning and night to determine the average water level for each working day.

(c)-(d). Inapplicable.

5. CONTOURS AND DRAINAGE

Elevations were determined by planetable supplemented by hand level lines using the water levels of the canals as described in paragraph 4 (b) as a datum.

Horizontal locations of level points were shown directly on nine-lens photographs, using identifiable features for control.

No contours are in the quadrangle, the highest ground elevation being 2 feet. Spoil banks of the Outfall Canal are 4 to 9 feet high.

The drainage pattern is not well defined. None of the small creeks making north into the marsh from the Sound enter the woods except as an indefinite drain for a short distance after which the land is very flat. The mouth of one small creek has filled in so that it is now a pond indicating that the drainage is so sluggish, it does not have sufficient force to keep open the mouth of the creek.

6. WOODLAND COVER

The cover was classified in accordance with Chapter 5, Paragraph 5433 of the preliminary edition of the Topographic Manual dated June, 1949.

7. SHORELINE AND ALONGSHORE FEATURES

(a) All the shoreline is apparent except where sand has built up as a beach in protected small bights. At these points M.H.W.L. has been definitely identified only where the length of the beach exceeds 30 meters.

(b) Pamlico Sound has no periodic tide^{*}, consequently, the mean low-water line is the same as the mean high-water line.

^{*}See tide data under Data Record of this report.

8. OFFSHORE FEATURES

Inapplicable.

9. LANDMARKS AND AIDS

No landmarks are in the quadrangle.

The two fixed aids within the quadrangle were pricked directly on the photographs.

10. BOUNDARIES, MONUMENTS AND LINES

For legal descriptions of all boundaries in the project, see "Special Boundary Report", which has been submitted by Mr. Wilbur H. Nelson, and Supplemental Boundary Report by Mr. A. J. Wraight, which will be submitted. *Both reports filed in Div. of Photogrammetry.*

No boundary monuments are in the quadrangle. *See item 68*

11. OTHER CONTROL

Recoverable topographic stations established are:

(1) TEAR, 1949

(2) SLAP, 1949

12. OTHER INTERIOR FEATURES

Inapplicable. (See Paragraph 15)

13. GEOGRAPHIC NAMES

This will be the subject of a special report, which will be submitted by Mr. A. J. Wraight, *filed in Div. of Charts (Geo. Names Section).*

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Geographic Names Report (to be submitted) *See item 13*
Boundary Report submitted 14 February, 1949 to Washington, D.C. *See item 10*
Transmitting Letter with all Quadrangle Data forwarded with this report to Tampa.

15. SWAMPS

See paragraph 15 of Field Inspection Report for Quadrangle T-8993.

25 May 1949
Submitted by:

E. L. Williams
E. L. Williams
Cartographer

Approved:
25 May 1949

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

[illegible]

Photogrammetric Plot Report

This report covers the plot for maps T-8973 to T-8976 inclusive, T-8984 to T-8986 inclusive, T-8993 and T-8994, and is filed as part of the descriptive report for T-8974.

COMPILATION REPORT, T-8994

PHOTOGRAMMETRIC PLOT REPORT

This report is being submitted with T-8974.

31. DELINEATION

The manuscript was delineated by graphic methods.

Photographs and field inspection were adequate for delineation. No difficulties were encountered.

32. CONTROL

Sufficient control was provided to cut in necessary detail points. Control was positively identified and well placed.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

No difficulty was encountered during the delineation of the small amount of contours and drainage.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

No low-water line has been shown (reference Item 7).

Shallow areas at Hog Island and Hog Island Point were discernable on photograph 22249 and have been so shown.

See item 67

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Reference Item 9. No unusual methods were used or difficulty encountered in the location of non-floating aids.

38. CONTROL FOR FUTURE SURVEYS

Two cards Form 524* are submitted herewith and are listed in Item 49.

* Filed in Div. of Photogrammetry.

39. JUNCTIONS

This quadrangle joins T-8985 to the north and T-8993 to the west. Junctions are in agreement. Pamlico Sound is to the east and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

See item 66

46. COMPARISON WITH EXISTING MAPS

There are no topographic quadrangles or planimetric maps available for comparison.

See item 62

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with U S C & G S Nautical Chart 1231, scale 1:80,000, published 1938 (8th edition), latest correction date, December 23, 1949. The two are in good agreement.

See item 65

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Richard A. Reece
Richard A. Reece
Cartographic Survey Aid

Approved and Forwarded

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

48. GEOGRAPHIC NAME LIST*BLUFF POINT SHOAL*BLUFF SHOALGULROCK REFUGE *ENR**See item 68*HOG ISLANDHOG ISLAND POINTHYDE COUNTYJUNIPER CREEKJUNIPER CREEK POINTLAKE LANDING TOWNSHIPMIDDLE CREEKNORTH BLUFF POINTNORTH CAROLINAOUTFALL CANALPAMLICO SOUNDSAGE BAYSANGER CREEK*SEVENFOOT PATCH

*Names have not been shown on map manuscript because limits of the features could not be determined.

Added after the addition of hydrography. ENR

*Names approved,
subj to F.E.*

2-20-51

A. J. W.

49. NOTES FOR THE HYDROGRAPHER

The following topographic stations are usable for hydrographic control:

TEAR, 1949

SLAP, 1949

The following features have not been shown because their limits could not be seen on the photographs:

BLUFF SHOAL
BLUFF POINT SHOAL
SEVENFOOT PATCH

PHOTOGRAMMETRIC REVIEW SECTION

TO BE CHARTED
TO BE DELETED

STRIKE OUT ONE

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Washington, North Carolina 1 April 1949

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

Richard A. Reece

Tampa Photogrammetric Office

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

T. 8994

CONTROL STATIONS

ALONGSHORE AREAS

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES

MISCELLANEOUS

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

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.

Computer

Supervisor

43. Remarks:

REVIEW REPORT
Topographic Map T-8994
5 December, 1951

62. Comparison with Registered Topographic Surveys:

T-1384a 1:20,000 1874-75

Map T-8993 supersedes this survey in common areas for nautical charting purposes. There is evidence of shoreline changes.

63. Comparison with Maps of Other Agencies: None

64. Comparison with Contemporary Hydrographic Surveys: None

65. Comparison with Nautical Charts:

1231 1:80,000 50-2/20

No very important differences were noted.

66. Adequacy of Results and Future Surveys:

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

67. Alongshore Details:

The shallow lines referred to under item 35 were deleted from the map manuscript because they did not appear to mark an abrupt change between shallow and deep areas. Also hydrographic data will be added by the Nautical Chart Branch.

68. Boundaries:

The Gulrock Refuge was not positioned by this survey. According to item 57, Descriptive Report for T-8985, this refuge has not been surveyed and is presently untended. A plat of the refuge is included as part of the Supplemental Report on Boundaries for Project Ph-20(47) which is filed in the Division of Photogrammetry.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

This map covers only a fringe of marsh and swamp and was ~~therefore~~ not field edited since there were no questionable items after field inspection and compilation. *Em*

History of Hydrographic Information
T-8994
Pamlico Sound, North Carolina

Hydrography was compiled in accordance with the general specifications of 18 May 1949.

Depth curves and soundings are in feet at mean low water and originate with the following hydrographic surveys:

H-661 (1857-58)	1:20,000
H-1226 (1874)	1:20,000
H-1227 (1874)	1:40,000
H-1254 (1875)	1:20,000

These surveys comprise the latest available information as of the date of this compilation. Comparison was made with Nautical Chart 1231, scale 1:80,000 latest print date of 11-12-51.

The depth curves are shown at 6, 12 and 18 feet.

The hydrography was compiled by Everett H. Ramey on 18 January 1952 and verified by R. E. Elkins on 18 January 1952.

Everett H. Ramey
Everett H. Ramey
18 January 1952