

5996

5996

Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. 14

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
APR 24 1936
Acc. No. _____

State North Carolina

LOCALITY

PAMLICO RIVER

Hills Point to Tar River

1935

CHIEF OF PARTY

John A. Bond

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO.

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 111REGISTER NO. 5996

State North Carolina¹³

General locality PAMLICO RIVER¹¹

Locality Hills Point to Tar River²²

Scale 1:10,000 Date of survey July, 19 35

Vessel MIKAWA

Chief of Party John A. Bond

Surveyed by T. A. Rydingsvard - P. C. Cook

Protracted by John C. Bull

Soundings penciled by John C. Bull

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by _____

Inked by George F. Jordan

Verified by George F. Jordan

Instructions dated August 31, 1934

Remarks: _____

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 114

PAMLICO RIVER - Hills Point to Tar River.

North Carolina

DATE OF INSTRUCTIONS - August 31, 1934

Project - HT-197

LIMITS

The sheet, surveyed on a scale of 1:10,000, covers the upper part of Pamlico River from just west of Hills Point to the mouth of Tar River at Washington, N. C. The sheet is joined on the east by sheet 13, surveyed this season by the party of the MIKAWA.

SURVEY METHODS

Standard Coast Survey methods of hand lead soundings and sextant fixes were used throughout. Leadline was Samson mahogany tiller rope graduated in feet and fathoms, used with an 8 pound lead. The leadline held its length remarkably well and no leadline corrections are necessary throughout any of the work.

The sheet was surveyed by T. A. Rydingsvard and P. C. Cook with a 24 foot skiff equipped with sounding chair and plotting table, powered with a Johnson 9 H.P. outboard motor.

DISCREPANCIES

No discrepancies are known to exist. Errors in the sounding records, principally in recording of angles and fixes, have been adjusted during the smooth plotting and noted in colored pencil in the sounding records.

DANGERS

No dangers are known to exist other than the spoil banks deposited to the north of the dredged channel. The banks have been carefully developed and it is thought the least depth on each has been obtained.

U. S. ENGINEERS' PROJECT

The U. S. Engineers maintain a dredging project from Hills Creek Beacon to Washington. No effort was made to obtain soundings within the limits of this project other than those which fell on our regular system of lines.

COMPARISON WITH PREVIOUS SURVEYS

In comparison with soundings shown on chart 537, considerable deepening of the shoal area west of McWilliams Point Beacon has occurred. The extent of the shoal area southeast of Fort Point Island has decreased. The 7 foot channel shown on the chart extending eastward from buoy S-10 appears to have shoaled to 6 feet.

SHORELINE ON SMOOTH SHEET

All shoreline shown on the smooth sheet was carefully transferred from aluminum mounted sheets surveyed this season by standard topographic methods. ✓

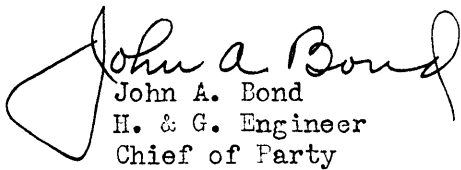
LANDMARKS FOR CHARTS

"Landmarks for Charts" and "Non-floating Aids to Navigation" have been made the subjects of reports submitted under separate cover. ✓

Submitted by,

T. A. Rydingsvard
Surveyor, C. & G. S.

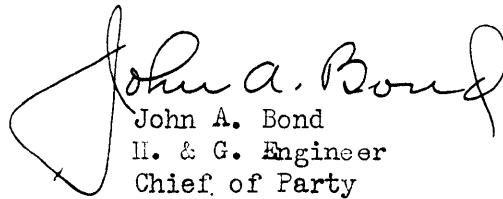
Approved by:


John A. Bond
H. & G. Engineer
Chief of Party

LIST OF STATISTICS - SHEET 14

Date	Day Letter	Miles (Statute)	Soundings	Positions
July 2	a	7.7	280	64
3	b	20.5	342	149
9	c	27.5	962	191
13	d	12.0	398	90
16	e	26.7	983	170
17	f	21.4	696	158
18	g	30.0	997	179
19	h	18.1	581	130
22	j	13.0	493	154
23	k	13.6	567	150
24	l	8.4	300	77
26	m	7.6	327	80
29	n	10.3	387	104
		<hr/>	<hr/>	<hr/>
		216.8	7313	1696

Smooth Sheet No. 114 was plotted under the immediate supervision of the Chief of Party. The sheet and accompanying records have been inspected and are approved.


John A. Bond
H. & G. Engineer
Chief of Party

Verifier's Report on H-5996 (1935)

1. This survey makes a junction with H-5950 (1935). ✓
2. Control and Shoreline are taken from T-6462 (1935), T-6463 (1935).
No [✓] air photos have been made of this area. ✓
3. The records conform to the requirements of General Instructions, ^{except as noted in the review} ✓
4. No additional changes or plotting was done ~~except~~ for the insert made of Washington's waterfront, as taken from sketch in the record book. ✓
5. Remarks.
 - (a) Positions 1164, 1174, on the east side of highway bridge over Runyon Creek refer to wharfs. No other information is given ^{shown extending from shore. Evidence, the point, on B.S. and T. indicate that this delineation is correct.} sufficient to correctly show whether wharf extends from bridge or shore. ✓
 - (b) Note is made that no bottom characteristics are shown on detached positions ✓
 - (c) No description can be found in this office of topographic signals "Jo" and "Nep" in Tar River. ^{mentioned in rev., referred to field party.} ✓

Respectfully submitted

George F. Jordan

June 18, 1936

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 3, 1936.

Division of Hydrography and Topography:

✓ Division of Charts: Att: Mr. E. P. Ellis

Tide Reducers are approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET 5996

Locality Hills Point to Tar River, Pamlico River, N. C.

Chief of Party: John A. Bond in 1935
Plane of reference is mean low water reading
1.7 ft. on tide staff at Washington
4.2 ft. below B.M. 1

There is practically no periodic tide and the plane of reference
was taken $\frac{1}{2}$ -foot below mean water level.

Condition of records satisfactory except as noted below:

Paul Schurman
Acting Chief, Division of Tides and Currents.

Remarks

Decisions

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GEOGRAPHIC NAMES

Survey No. H5996

Name on Survey	Sources										No.
	A	B	C	D	E	F	G	H	K		
	On Chart No. 537	On previous survey No. 7340	On U. S. Quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Coast and Geodetic Survey			
<u>Kennedy Creek</u> ✓	*		—								1
<u>Tar River</u> ✓	*		—				—		—		2
<u>Runyon Creek</u> ✓	*	✓	—					—			3
<u>Rodman Point</u> ✕	*		—					—			4
<u>Pamlico River</u> ✓	*		—				—	—			5
<u>Chocowinity Creek</u> ✓ ⁿ	*		—					—			6
<u>Chocowinity Bay</u> ✓ ⁿ	*		—					—			7
<u>Silas Creek</u> ✓	*		—					—			8
<u>Fork Point</u> ✓	*		—					—			9
<u>Rice Creek</u> ✕	*		—					—			10
<u>Calf Creek</u> ✕	*		✓					—			11
<u>Hills Creek</u> ✕	*		✓					—			12
<u>Fort Pt Island</u> ✕	*		—					—			13
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Items underlined in red approved
by *[Signature]* on 5/15/36

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H5996**

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.1696.
Number of positions checked	...43.
Number of positions revised0.
Number of soundings recorded	.7313.
Number of soundings revised9.
Number of signals erroneously plotted or transferred0.

Date: *June 18, 1936*

Verification by

George F. Jordan

Review by

Harold W. Murray

Ver. Cor. by

..

Time: *47½ hrs.*

Time: *9 ..*

.. *1½ ..*

HYDROGRAPHIC SURVEY NO. H5996

Smooth Sheet Yes

Boat Sheet 1

Sounding Records 5 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) Yes

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) No

Special Chart for Lighthouse Service No
(Circular Nov. 30, 1933)

Remarks _____

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT # 67~~

No. H 5996
~~No. T#~~

{ received Apr. 24, 1936
 registered May 11, 1936
 verified
 reviewed
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

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C. K. Green *May 12 - '36*

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5996 (1935) FIELD NO. 14

Hills Point to Tar River, Pamlico River, N. C.

Surveyed in 1935

Instructions dated Aug. 31, 1934 (NATOMA)

Hand Lead Soundings.

3 Point fixes on shore signals.

Chief of Party - John A. Bond
Surveyed by - T. A. Rydingsvard & P. C. Cook
Protracted by - John C. Bull
Soundings plotted by - John C. Bull
Verified and inked by - G. F. Jordan

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except as follows:

- a. The duplicate of the chart forwarded to the Lighthouse Bureau containing objects for locating aids to navigation was not received by this office.
- b. Topographic signals "Nep" (lat. $35^{\circ} 32.7'$, long. $77^{\circ} 04.7'$) and "Jo" (lat. $35^{\circ} 33.2'$, long. $77^{\circ} 05.2'$) fall outside the high water line. However, these signals are close inshore and are probably located on some temporary feature and no further consideration is necessary.

The Descriptive Report is clear and comprehensive and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey conform to the instructions for the project.

3. Shoreline and Signals.

The shoreline and signals are from plane table surveys T-6462 (1935 and T-6463 (1935)).

4. Sounding Line Crossings.

Such cross lines as were run or those that result from the work show good agreement.

5. Depth Curves.

Within the limits of the survey, the usual depth curves may be satisfactorily drawn including portions of the low water line.

6. Junctions with Contemporary Surveys.

- a. The junction on the southeast with H-5950 (1935) is satisfactory.

- b. The western limit of the present survey in Tar River represents the limit of the present project. This extends 1/2 mile further westward of that shown on the chart.

7. Comparison with Prior Surveys.

a. H-1101 (1871) and H-1132 (1872)

These surveys are on scales of 1:20,000 and 1:10,000 respectively and cover the entire area of the present survey. Depths are generally in close agreement. A few areas on the present survey, however, vary 4 to 6 feet deeper in some cases and 4 feet shoaler in others. These differences are probably due to dredging operations.

b. H-3662 (1914)

This survey is on a scale of 1:10,000 and falls entirely within the limits of the present survey. Depths are generally in good agreement with the present survey in most areas. The old survey shows a number of shoal spots with least depth of 2 to 5 feet which are due to dredge dumpings (see Descriptive Report of 1914 survey). Depths on the present survey in these areas generally vary 1 to 3 feet deeper and indicate that the shoal spots are wearing away. However, in several instances such as the 2 foot shoaling (charted, actually 2.7 feet) in lat. 35° 30.4', long. 77° 00.9' which falls in depths of 6 feet on the present survey, evidence that a general deepening has occurred is not entirely satisfactory and the soundings have been carried forward.

8. Comparison with Chart 537 (New Print dated Feb. 15, 1933).

a. Hydrography.

Soundings shown on the chart originate with surveys discussed in preceding paragraphs as well as other outside sources which cover the charted portion of Tar River. The source of these soundings was not ascertained but they are shown on the 1st Edition of Chart 537 in 1914 (supersedes Chart 144-1). Depths are generally in close agreement except in the vicinity of the dredged channel where several deep spots with maximum depths of 14 to 19 feet are 4 to 6 feet shoaler on the present survey. The present survey should supersede this information for charting purposes.

b. Controlling Depths in Channels.

The controlling depths in the dredged channel in Pamlico River and in Tar River are reported monthly by the U. S. Army Engineers. The latest controlling depths are 10½ feet as of June 1, 1936 (Chart Letter 387, 1936) and 3½ feet as of Mar. 30, 1936 (Chart Letter 270, 1936) in the latter. This information post dates the present survey by about a year.

c. Aids to Navigation.

Buoys and beacons located on the present survey are in substantially

the same positions as charted except the following:

- (1) Red Buoy S10 (lat. $35^{\circ} 31.6'$, long. $77^{\circ} 02.5'$) was located on the present survey approximately 100 m. N.W. of the position as charted. The charted position originates with N to M 46 (1923) and is based on the intersections of 3 bearings to other known objects.
- (2) The beacon in lat. $35^{\circ} 30.5'$, long. $77^{\circ} 01.2'$ was located by triangulation on the present survey approximately 170 m. N.W. of its charted position. The charted position originates with H. O. N. to M 22 (1919).
- (3) Six buoys and one beacon are located on the present survey in Tar River which are not shown on the chart. These aids, with the exception of the beacon, are listed in the 1936 Local Light and Buoy List.

The aids as located on the present survey correctly mark the features intended.

9. Field Plotting.

Field Protracting and plotting were accurate and conform to the requirements of the Hydrographic Manual.

10. Additional Field Work Recommended.

Aside from several soundings which were carried forward from previous surveys, this survey is complete and no additional field work is required.

11. Note to Compiler.

Attention is called to a small stream in lat. $35^{\circ} 30.5'$, long. $77^{\circ} 02.3'$ which was plotted from information contained on the Boat Sheet and is not shown on T-6462 (1935).

12. Superseding Previous Surveys.

Within the area covered the present survey with the indicated additions from previous surveys supersedes the following surveys for charting purposes:

H-1101 (1871) in part
H-1132 (1872) entirely
H-3662 (1914) "

13. Reviewed by - Harold W. Murray, July 7, 1936

Inspected by - A. L. Shalowitz

C. K. Green, *C. K. Green*
Chief, Section of Field Records

Jared L. Peacock
Chief, Section of Field Work.

L. O. Robert
Chief, Division of Charts.

J. H. de
Chief, Division of H. & T.