

5941

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

FEB 15 1936

Acc. No. _____

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 11
Hydrographic }

State North Carolina

LOCALITY

~~PAMLICO SOUND~~ - Pamlico River

Rumley Marsh to Core Point

1935

CHIEF OF PARTY

John A. Bond

5941

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

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. 11

REGISTER NO. **H5941**

State North Carolina

General locality Pamlico ~~Sound~~ River

Locality Rumley Marsh to Core Point

Scale 1:10,000 Date of survey April to June, 1935

Vessel U.S.C. & G.S. Launch MIKAWA

Chief of Party John A. Bond

Surveyed by F.L. Gossett & G.F. Chenworth.

Protracted by G.W. Lovesee

Soundings penciled by G.W. Lovesee

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by —

Inked by *[Signature]*

Verified by *[Signature]*

Instructions dated August 31, 1934

Remarks: —

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 11

Pamlico River, North Carolina

DATE OF INSTRUCTIONS - August 31, 1934

Project - HT-197

LIMITS

The sheet covers the main body of Pamlico River from Rumley Marsh to a point about 1 mile west of Core Point. It is joined on the east by sheet 7, on the west by sheet 13, on the north (at the entrance to Bath Creek) by sheet 12 and on the south (at the entrance to Durham Creek) by sheet 9. All adjoining sheets were 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 inshore area was surveyed by Lieutenant (j.g.) F. R. Gossett using a 24 foot skiff equipped with sounding chair and plotting table, and powered by a Johnson 9 H.P. outboard motor. The main body of the river was surveyed by Lieutenant (j.g.) F. R. Gossett and Ensign C. F. Chenworth using the 40 foot twin-screw hired launch LONA. ✓

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 which would obstruct small boat navigation in the mid-stream channels of the river. The inshore area on both sides of the river is dotted with numerous duck blinds, all of which have been located on the topographic sheet. Several fish traps extending from the shore line have been located by the hydrographic party and plotted on the smooth sheet from notes in the sounding records. These traps are of a temporary nature and probably will not last through the winter. However, new ones will be constructed in the same general area next spring. On account of their temporary nature there is question as to the advisability of charting these traps. It is thought that several legends "fish traps" printed at applicable places throughout the area would serve a better purpose on the chart. ✓

COMPARISON WITH PREVIOUS SURVEYS

In comparison with soundings shown on chart 537 general river depths appear unchanged. Along the south shore just east of the meridian 76° 45' the 6 foot curve shown on the chart extending offshore in a pronounced point* has moved inshore leaving several isolated 6²/₄ foot spots at the offshore end of its previous location. Midway between meridians 76° 46' and 76° 47' along the south shore the 6 foot curve extends out to a sharp finger-like point not shown on the chart. Off Core Point the 6 foot detached shoal south of buoy C-5 appears to have deepened. Along the north shore about 1/3 mile off the entrance point to Mixon Creek, on meridian 76° 47', a shoal area with a least depth of 5 feet is not indicated on the chart.

* This was a generalization in charting old survey plan 5 1/2 foot detached shoal.


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.

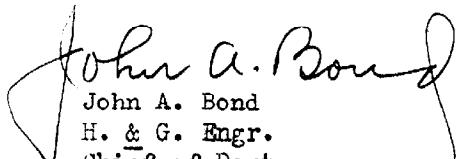
LANDMARKS FOR CHARTS

"Landmarks for Charts" will be made the subject of a separate report to be submitted for the entire project.

Submitted by,


C. F. Chenworth
Aid, C. & G. S.

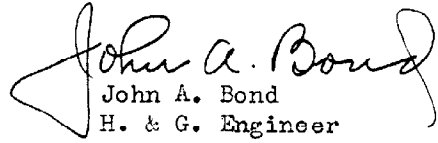
Approved by:


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

LIST OF STATISTICS - SHEET 11

Date	Day	Letter	Volume	Statute Miles	Soundings	Positions
Apr.	26	a	1	32.8	976	170
	29	b	1 & 2	27.7	824	150
May	2	c	2	25.3	731	150
	3	d	2 & 3	28.4	895	159
	6	e	3	21.6	843	127
	7	f	3	15.2	471	94
	8	g	3 & 4	24.7	749	146
	9	h	4	11.4	494	106
	10	j	4 & 5	19.3	690	141
	24	k	5	10.2	608	107
	28	l	5 & 6	17.4	708	164
	29	m	6	14.6	576	134
Jun.	5	n	6	13.7	513	115
				<hr/>		
				262.3	9078	1763

Smooth Sheet No. 11 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

HYDROGRAPHIC SURVEY NO. 5941

Smooth Sheet Yes

Boat Sheet 1

Sounding Records Yes Vols. 6

Descriptive Report Yes

Title Sheet Yes

List of Signals Vol. 1

Landmarks for Charts (Form 567) No

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 _____

Field Records Section (Charts).

HYDROGRAPHIC SHEET NO. **H5941**

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

Number of positions on sheet	1763
Number of positions checked	9
Number of positions revised	2
Number of soundings recorded	9278
Number of soundings revised	4
Number of signals erroneously plotted or transferred	0

Date: **April 11, 1936**

Inking and
Verification by

E. J. [Signature]

Time: **20 ³/₄ hours**

Review by **Harold W. Murray**

Time: **10 "**

Ver. Cor. by ..

1 "

Verification Report

Field Records Section

Hydrographic Survey 5941(1935) Field No. ||

Rumley Marsh to Core Pt., Pamlico River, N.C.
J. A. Bond, Chief of Party

1. Condition of Records.

The records are neat, legible and conform to the requirements of the Hydrographic Manual *except as noted in the Review. J.A.B.*

2. Shoreline and Control.

The shoreline and control signals originate with T-6408(1935), T-6409(1935), and T-6410(1935).

3. Sounding Line Crossings.

The agreement in depth at sounding line crossings is excellent.

4. Depth Curves.

The depth curves can be drawn satisfactorily.

The low water line was not delineated.


5. Junctions With Contemporary Surveys.

The junction on the east with H-5919(1935) is satisfactory. Junctions with the other contemporary surveys will be made when they have been verified.

6. Field Plotting.

The Field plotting neat and accurate, however it would have been better to have used lighter weight arrows from the descriptive notes to the objects - such as Duck Blinds etc. Some of these have the appearance of docks running out from the shore.

Verified and inked by



Leo S. Straw

April, 11, 1936.

GEOGRAPHIC NAMES

Survey No. **H5941**

Name on Survey	On Chart No.		On previous survey No.		On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
	A	B	C	D	E	F	G	H	K		
Core Creek PT. ✓	587	1210									1
Bath Creek ✓	537	1210									2
Durham Creek	537	1410									3
Garrison Creek											4
Lee Creek	537	1210									5
Mixon Creek ✓	537	1210									6
Rumley Marsh ✓	587	1210. 1412									7
GARRISON PT. V	537	1210									8
PADILICO RIVER V	537	1210									9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Names underlined in this application
OK given 3/25/26

MEMORANDUM

IMMEDIATE ATTENTION

~~SURVEY~~
~~DESCRIPTIVE REPORT~~
~~PHOTOSTAT OF~~

No. H 5941
 No. T

{ received Feb. 17, 1936
 registered Feb. 20, 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
20			
22			
24			
✓ 25		<i>conf</i>	<i>D R.</i>
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	
----	--

C. K. Green Feb 20, 1936.

LAC

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Ed. Feb. 1935

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography:

February 26, 1936.

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

Tide Reducers are approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET 5941

Locality Rumley Marsh to Core Point, Pamlico River, N. C.

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

There is practically no periodic tide and the plane of reference
was taken half a foot below mean water level.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5941 (1935) FIELD NO. 11

Rumley Marsh to Core Point, Pamlico River, N. C.
Surveyed in 1935
Instructions dated August 31, 1934 (NATOMA)

Hand Lead Soundings.

3 Point fixes on shore signals.

Chief of Party - John A. Bond.
Surveyed by - F. L. Gossett and C. F. Chenworth.
Protracted by - G. W. Lovesee.
Soundings penciled by - G. W. Lovesee.
Verified and inked by - Leo S. Straw.

1. Condition of Records.

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

- a. The boat sheet shows a small feature in pencil just eastward of the southern tip of Rumley Marsh which is accompanied by a penciled note "Island". This feature is not mentioned in the sounding records nor shown on T-6408 (1935), however, this topo. does show 2 pin pricks not connected by topography which agree closely in position with the feature shown on the boat sheet. The topographic sheet also shows 3 pin pricks connected by a faint pencil line which falls between the above feature and the shoreline and which may possibly be the remains of a duck blind, although not inked in by the topographer. Since this feature lies between high water line and 1 foot soundings it is of no navigational importance and has not been added to the smooth sheet.
- b. No chart containing objects for use by the Lighthouse Bureau in locating aids to navigation has been received by this office.
- c. Notes describing offshore features such as duck blinds, piles, etc., many of which were used as signals, were accompanied by heavy leaders running to the features that appear at first glance as docks running out from the shoreline. To avoid such confusion, it is suggested that such notes be shown in parenthesis either below or adjacent to the signal names or features.

The Descriptive Report is exceptionally clear and comprehensive and adequately covers all matters of importance.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project, except that in the vicinity of shoals

making out from points, split lines should extend sufficiently offshore to insure the accurate drawing of the depth curves. Two cases in point are the shoals in the vicinity of latitude $35^{\circ}25.5'$, longitude $76^{\circ}50.5'$, and latitude $35^{\circ}24.5'$, longitude $76^{\circ}49.0'$.

3. Shoreline and Signals.

The shoreline and signals are from plane table surveys T-6408 (1935), T-6409 (1935) and T-6410 (1935).

4. Sounding Line Crossings.

Agreement of sounding line crossings is excellent.

5. Depth Curves.

Within the limits of the survey, the usual depth curves may be completely drawn.

6. Junctions with Contemporary Surveys.

The junctions on the east with H-5919 (1935), on the north with H-5961 (1935), on the west with H-5950 (1935), and on the south with H-5918 (1935) are satisfactory.

7. Comparison with Prior Surveys.

a. H-1099 (1871) and H-1100 (1871).

These 1:20,000 scale surveys cover the entire area of the present survey. General agreement of soundings is excellent, however, in the vicinity of the 6 foot curve (latitude $35^{\circ}23.1'$, longitude $76^{\circ}45.4'$) a general deepening of 2 to 5 feet has taken place. In the vicinity of the detached 5-1/2 foot shoal (5 feet charted as part of the general 6 foot curve) shown on H-1099 (1871) in latitude $35^{\circ}23.3'$, longitude $76^{\circ}45.3'$, a general deepening of about 1/2 foot has taken place, the present survey showing 6 feet on this shoal.

b. H-3663 (1914).

This survey is on a scale of 1:20,000 and contains three detached examinations that fall within the area of the present survey. The first in latitude $35^{\circ}24.6'$, longitude $76^{\circ}49.0'$, is in excellent agreement with depths on the present survey. The second in latitude $35^{\circ}25.8'$, longitude $76^{\circ}50.6'$ appears to have deepened slightly leaving a single 6 foot spot where formerly an extensive 6 foot area existed outside of the general 6 foot curve. The third examination is off the end

of a dock in latitude $35^{\circ}26.0'$, longitude $76^{\circ}47.6'$. The present survey shows considerable change in depth and topographic detail in this vicinity.

Because of the changes noted and the adequacy of development on the present survey, it should supersede the former survey for charting purposes.

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

a. Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and contains no additional information that needs consideration in this review.

b. Aids to Navigation.

Aids located on the present survey agree closely in position with those charted, except buoy C^{"5"} in latitude $35^{\circ}25.9'$, longitude $76^{\circ}50.7'$, which was located 80 m. SSW of its charted position. While neither position is opposite the detached 6 foot shoal spot shown on the present survey about 440 m. to the southeastward, the buoy nevertheless adequately marks the broader features of this extensive shoal area.

9. Field Plotting.

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

10. Additional Field Work Recommended.

This survey is complete and no additional field work is required.

11. Note to Compiler.

Attention is called to the field party's suggestion regarding the charting of fish traps in this area, discussed in the Descriptive Report (page 1) under the heading "Dangers".

12. Superseding Previous Surveys.

Within the area covered, the present survey supersedes the following surveys for charting purposes:

H-1099 (1871) in part
H-1100 (1871) in part H-3663 (1914) in part

13. Reviewed by - Harold W. Murray, May 11, 1936.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

Fred. R. Peacock
Chief, Section of Field Work.

L. O. Robert.
Chief, Division of Charts.

G. Stude
Chief, Division of H. & T.

25 February 21, 1936
E.H.B.

Applied to Drawing of Chart 537, Dec. 7, 1936. H.B.