

5919

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
DEC 23 1935
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. 7
Hydrographic }

State North Carolina

LOCALITY

~~PANLICO SOUND~~

Panlico River

Adams Pt. to Sinclair Creek

1935

CHIEF OF PARTY

John A. Bond

5919

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

DEC 23 1935

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. 7

REGISTER NO. **5919**

State North Carolina

General locality Pamlico Sound River

Locality Pamlico River Adams Pt. to Sinclair Creek²⁴

Scale 1:10,000 Date of survey March - June, 19 35

Vessel MIKAWA

Chief of Party John A. Bond

Surveyed by C. F. Chenworth - T. A. Rydingsvard

Protracted by T. A. Rydingsvard

Soundings penciled by T. A. Rydingsvard

Soundings in-fathoms- feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by

Inked by C. W. O'Melveny and T. A. Rydingsvard

Verified by C. W. O'Melveny

Instructions dated August 31, 19 34

Remarks:

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 7

Pamlico River, North Carolina

DATE OF INSTRUCTIONS - August 31, 1934

Project - HT-197

LIMITS

The sheet covers the main body of Pamlico River from Adams Point to a point two miles west of Sinclair Creek. It is joined on the east by sheet 6, on the west by sheet 11, on the north at the entrances to Sinclair and North Creeks by sheet 9, and on the south by the South Creek sheet, No. 10. 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 T. A. Rydingsvard and P. C. Cook (day letters in red) using a 24 foot skiff equipped with sounding chair and plotting table, and powered by a Johnson 9 H.P. outboard motor. Separate boat sheets were used for the inshore and offshore areas.

The survey of the open area was done by C. F. Chenworth (day letters in blue) 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. In the inshore area on both sides of the river fish traps are numerous. A number of these were located by the topographic party; those not so located were determined by the hydrographic party and their locations may be plotted from 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 it is doubtful if the positions of these traps should be charted. It is thought that several legends "fish traps" printed at various places throughout the area would serve a better purpose on the chart.

C.K.G.

(2)

COMPARISON WITH PREVIOUS SURVEYS

In comparison with Chart 537 no appreciable changes in depths can be detected. ✓

SHORELINE ON SMOOTH SHEET

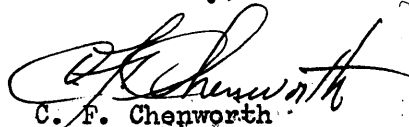
Eastward from triangulation stations North and Bond shoreline was obtained from the completed air photo sheets compiled by Lieut. Grenell, and was transferred to the sheet by means of a new-type projector. Signals in this area were located by standard topographic methods on aluminum mounted sheets. ✓


The remainder of the shoreline was surveyed this season by standard topographic methods. ✓

LANDMARKS FOR CHARTS

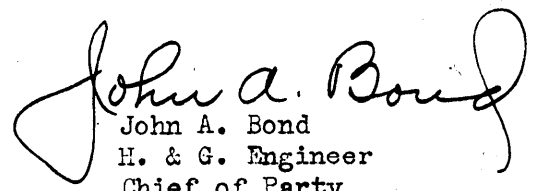
"Landmarks for Charts" will be made the subject of a separate report to be submitted for the entire project. ✓

Submitted by,

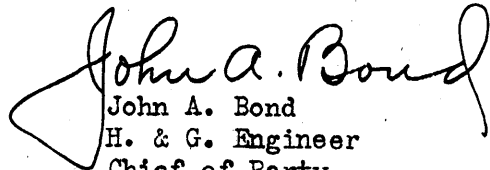

C. F. Chenworth
Aid, C. & G. S.


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

Approved by,


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

Smooth Sheet No. 7 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

LIST OF STATISTICS - SHEET 7

Date	Day	Letter	Volume	Statute Miles	Soundings	Positions
Mar.	25	a	1	27.8	846	145
	26	b	1	21.7	661	114
	27	c	1 & 2	34.1	1021	172
	28	d	2 & 3	18.1	533	90
	29	e	3	25.4	783	135
	30	f	3	15.7	481	86
Apr.	5	g	3 & 4	23.7	717	128
	10	h	4	15.7	528	103
	11	j	4 & 5	12.3	445	100
	12	k	5	17.9	551	120
Mar.	29	a	6	8.9	346	86
	30	b	6	6.4	282	69
Apr.	1	c	6	12.9	589	90
	2	d	6 & 7	15.1	680	109
	3	e	7	17.5	747	182
	5	f	7 & 8	20.5	844	136
	8	g	8	10.8	451	96
	9	h	8	1.0	48	7
	10	j	8	8.0	342	79
	12	k	8 & 9	10.1	418	74
May	14	l	9	15.8	525	105
	17	m	9	11.7	423	86
June	24	n	10	12.0	388	73
	25	p	10	2.0	69	13
	26	q	10	7.0	254	56
	27	r	10	4.5	183	40
				376.6	13160	2494

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **5919**

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

Number of positions on sheet	<i>2494</i>
Number of positions checked	<i>64</i>
Number of positions revised	<i>4</i>
Number of soundings recorded	<i>131.60</i>
Number of soundings revised	<i>5</i>
Number of signals erroneously plotted or transferred	<i>0</i>

Date: *March 12, 1936*

Verification by *C. H. O'Melveny*
Inked by C. H. O'Melveny & [Signature]
Review by *Harold W. Murray*
Ver. Corrections by " "

Time: *50* } *68 1/2* hrs.
 18 1/2 }
Time: *15 1/2* hrs
 2 " "

HYDROGRAPHIC SURVEY NO. H5919

Smooth Sheet yes

Boat Sheets 2

Sounding Records 10 Vols. _____

Descriptive Report yes

Title Sheet yes

List of Signals Vol 1

Landmarks for Charts (Form 567) none *Yf*

Statistics yes

Approved by Chief of Party yes

Recoverable Station Cards (Form 524) none

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

Remarks _____

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

No. H 5919
~~NOTE~~

{ received Dec. 23, 1935
 registered Dec. 26, 1935
 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			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	
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✓ CKG - Dec. 27-35
 ✓ E.H.J. Dec 30, 35

Remarks

Decisions

	Remarks	Decisions
1	Sinclair's Creek on T.1212	
2	Cousin's Point on T1212	
3		
4	Adams' Pt on T1212	
5	Pamplico R. on T1212	
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GEOGRAPHIC NAMES

Hydrographic Survey No. H5919

Name on Survey	Source of Name										No.
	A	B	C	D	E	F	G	H	K	V.S.C.B.	
	On Chart No. 597	On Previous survey No. T 12 12	On U. S. Quadrangle Maps	From local information	On local Maps	Rept Army Engs 1895	Rand McNally Atlas	U. S. Light List			
<u>Sinclair Creek</u> ✓	*										1
<u>Cousin Point</u> X	*										2
<u>North Creek</u> ✓	*	✓									3
<u>Adams Point</u> ✓	chart 1231 *										4
<u>Pamlico River</u> ✓	*						✓				5
<u>The Ditch</u> ✓	1231 *	T 12 13 ✓									6
<u>Indian Island</u> ✓	*						✓				7
<u>South Creek</u> ✓	*						✓				8
<u>Hickory Pt.</u> ✓	*	✓									9
<u>Long Point</u> ✓	*	✓									10
<u>East Prong</u> ✓		T 5557 *									11
<u>Cypress Branch</u> ✓		*									12
<u>Strawhorn Creek</u> ✓		*									13
<u>Davis Creek</u> ✓		*									14
<u>Reed Point</u> ✓		*									15
<u>Indian I Sl4c</u> X			②/2/36					✓	✓		16
											17
											18
											19
	Names underlined in red approved										20
	by K.T.A on 1/7/36										21
											22
											23
											24
											25
											26
											27

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 20, 1936.

Division of Hydrography and Topography:

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

Tide Reducers are approved in
10 volumes of sounding records for

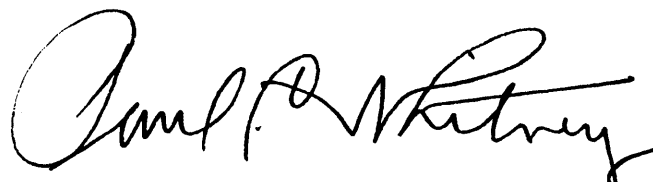
HYDROGRAPHIC SHEET 5919

Locality Adams Point to Sinclair Creek, Pamlico Sound, N. C.

Chief of Party: John A. Bond in 1935
Plane of reference is mean low water reading
2.2 ft. on tide staff at Goose Creek
2.4 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.

Field Records Section
Verification Report on Hydrographic Survey H-5919 (1935)
Field No. 7, Pamlico River, N. C.

1. Condition of Records.

The records generally conform to the requirements of the Hydrographic Manual. The only bottom characteristics recorded were "sft" and "hrd". The bottom is probably sand where "hrd" appears and mud where "sft" is noted.

2. Shoreline and Control

The Graphic Control surveys which cover this area have ~~not been~~ ^{FE 406, FE 407, FE 408, FE 345} been received. Only two of the Air Photo Compilation surveys have been received, namely, T-5554 and T-5557. *No more will be received.*

The shoreline of Indian Island and from Reed Pt. east to the limits of this sheet, H-5919 (1935) originates with T-5557 and the agreement is satisfactory.

The shoreline from Lat. 35°24.0' Long. 76°38.0' east to the limit of this sheet, H-5919 (1935) originates with T-5554 and is in ~~fair~~ agreement. The location of the dock on T-5554 in Lat. 35°23.85' Long 76°37.59' does not agree with the position shown on the Hydrographic sheet. The Δ Station Higgs 1933 is about 10 meters north of the position shown on the Hydrographic sheet. The above discrepancies may be disposed of when the Air Photo Compilation sheet T-5554 is reviewed.

May 12, 1936
This has been disposed of by the Air Photo Section
May 12, 1936

3. Sounding Line Crossings

The soundings at line crossings are in good agreement.

4. Depth Curves

The depth curves can be satisfactorily drawn.

5. Junctions with Contemporary Surveys

(a) The junction with H-5918 (1935) in North Creek and Sinclair Creek is satisfactory.

(b) The junction on the east with H-5874 (1935) is satisfactory.

(c) Work on the west and in South Creek have not as yet been received from the field. ^{Junctions} Completed at time of Review. *Hum.*

6. Field Plotting

The field plotting is satisfactory.

Except the heavy black lines indicating the boundary of the sheet are unnecessary.

These lines have been removed.
Hum.

Verification Report on Hydrographic Survey H-5919 (1935)
continued - Sheet #2

7. Remarks

(a) The only reference to the black spar buoy in Lat. $35^{\circ}21.68'$ Long. $76^{\circ}40.5'$ is made on page 51 of Vol. 6 between position 47 and 48 (red) o day. The other buoys shown on the sheet were located by 3 point fixes.

Location on T-
(406(1935) accepted
H.W.N.

(b) There are numerous positions in this work where the records read "SBS" (see boat sheet) some of which occur in open areas where it does not seem that there should be trouble in obtaining a 3 point fix. Not mentioned in Rev. ~~work~~.

(c) The position of the dock in Lat. $35^{\circ}23.85'$ Long. $76^{\circ}37.59'$ should be checked when T-5554 has been reviewed. See paragraph 2 of this report.

Disposed of by
Air Photo Section
R.P.
May 12, 1936

C.W. Melvrey
Verified by - Leo S. Straw
Inked in Report
Date - March 12, 1936

Section of Field Records.

REVIEW OF HYDROGRAPHIC SURVEY NO. 5919 (1935) FIELD NO. 7

Adams Point to Sinclair Creek, 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 - C. F. Chemworth and T. A. Rydingsvard.

Protracted by - T. A. Rydingsvard.

Soundings penciled by - T. A. Rydingsvard.

Verified and inked by - Leo. S. Straw and C. W. O'Melveny.

1. Condition of Records.

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

- a. No duplicate of the chart forwarded to the Lighthouse Bureau containing objects for locating aids to navigation has been received by this office.
- b. The use of a heavy black line indicating the limits of hydrography as shown on the eastern and western limits of the present survey is unnecessary. This was removed in the office.

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 satisfy the instructions for the project, except that the sounding lines should have been more closely spaced in the area south and southwest of Indian Island (latitude $35^{\circ}21'$, longitude $76^{\circ}38'$ to $76^{\circ}41'$).

3. Shoreline and Signals.

- a. The shoreline is from air photo compilations: T-5554 (1934) and T-5557 (1934); and plane table surveys: T-6406 (1935), T-6407 (1935) and T-6408 (1935).
- b. The signals are from plane table surveys T-6406 (1935), T-6407 (1935), and T-6408 (1935); and graphic control surveys: T-6405 (1935) and T-6345 (1935).

4. Sounding Line Crossings.

Agreement of sounding line crossings is excellent.

a few spots on the present survey vary 1 foot deeper in some cases and shoaler in others. However, in latitude $35^{\circ}23.4'$, longitude $76^{\circ}37.6'$, the 1914 survey shows two 8 foot soundings (one charted, Chart 1231) which fall on the present survey in depths of 9 to 11 feet and between sounding lines spaced 210 m. apart. The 8's were obtained on different lines and indicate a small shoal which is substantiated by other 8 and 9 foot soundings, although not all are plotted on the 1914 survey. Soundings on the present survey, although too widely spaced for an adequate comparison, do indicate the possible existence of a shoal here and the 8's have been carried forward. Aside from the two 8's just discussed, the present survey adequately covers on a larger scale, the 1914 developments and should supersede that survey for charting purposes.

8. Comparison with Chart 537 (New Print dated Feb. 15, 1933)
Chart 1231 (New Print dated Dec. 16, 1935).

a. Hydrography.

Within the area covered by the present survey, the hydrography shown on the charts originates with surveys discussed in preceding paragraphs of this review. The source of the charted character in latitude $35^{\circ}21.6'$, longitude $76^{\circ}40.2'$, was not ascertained but it has been charted since the 1st edition of Chart 537 in 1914. It falls in depths of 3 to 4 feet on the present survey. It is probably a duck blind which has disappeared and should be replaced by the duck blind shown on the present survey 170 meters ESE of the charted symbol.

b. Aids to Navigation.

- (1) Buoys located on the present survey (all charted on Chart 537) vary 40 to 90 m. from the positions as charted. The charted buoys have been charted in their present positions since the 1st Edition of Chart 537 in 1914. However, the positions as shown on the present survey adequately mark the features intended.
- (2) Black buoy S¹" (latitude $35^{\circ}21.3'$, longitude $76^{\circ}40.9'$) which was located on the present survey (pos. 61j, blue) agrees in position with that shown on T-6406 (1935). However, T-6414 (1935) which was surveyed 2 to 3 months later shows the buoy about 15 m. to the NE. This is the latest information and should supersede the positions shown on the present survey and on T-6406 (1935) for charting purposes.
- (3) Indian Blue Beacon charted in latitude $35^{\circ}21.6'$, longitude $76^{\circ}40.6'$, agrees in position with that shown on the present survey.

5. Depth Curves.

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

6. Junctions with Contemporary Surveys.

The junctions on the north with H-5918 (1935) on the east with H-5874 (1935), on the south with H-5874 (1935), and H-5946 (1935), and on the west with H-5941 (1935) are satisfactory.

7. Comparison with Prior Surveys.a. H-1088 (1870) and H-1099 (1871).

These 1:20,000 scale surveys cover the entire area of the present survey. Soundings are in close agreement, although a few spots on the present survey vary 1 to 2 feet deeper in some cases and shallower in others. The more important differences noted in connection with H-1099 (1871) are:

(1) The 6 foot sounding (charted on Chart 537), in latitude $35^{\circ}25.1'$, longitude $76^{\circ}44.4'$, falls in depths of 7 to 8 feet on the present survey. The 6 is one of several 6 and 6-1/2 foot soundings obtained on line which line was directly crossed by a line of 7 and 8 foot soundings on the present survey. In view of the lapse of time between the present and the 1871 survey, the shoal area has probably been washed away and should be superseded by depths on the present survey for charting purposes.

(2) The 6 foot sounding in latitude $35^{\circ}22.8'$, longitude $76^{\circ}42.7'$, and another 6 in latitude $35^{\circ}22.0'$, longitude $76^{\circ}38.6'$ (both charted, Chart 537) fall in depths of about 7 and 10 feet, respectively on the present survey. The 6's are one of several soundings obtained on line and indicate shoal areas of at least 100 m. in extent. The present survey shows a shifting in position of the shoal areas with least depths remaining practically unchanged. The development shown here on the present survey is adequate and should supersede the 1871 work for charting purposes. 6² charted
6
248

b. H-3663 (1914).

This 1:20,000 scale survey contains four detached shoal developments which fall within the limits of the present survey in the vicinities of latitude $35^{\circ}23.0'$, longitude $76^{\circ}36.0'$; latitude $35^{\circ}23.4'$, longitude $76^{\circ}37.3'$; latitude $35^{\circ}22.3'$, longitude $76^{\circ}39.4'$; and latitude $35^{\circ}21.5'$, longitude $76^{\circ}40.7'$. Depths are generally in close agreement with the present survey although

9. Field Plotting.

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

10. Additional Field Work Recommended.

This survey is complete with the exception noted in par. 2, and no additional field work is required.

11. Note to Compiler.

Attention is directed to the latest information regarding the position of black buoy S"1" (latitude 35°21.3', longitude 76°40.9') discussed in paragraph 8b (2) of this review.

12. Superseding Previous Surveys.

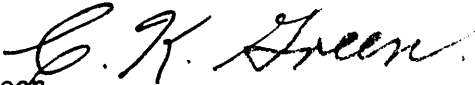
Within the area covered, the present survey with the indicated additions from previous surveys supersedes the following surveys for charting purposes:

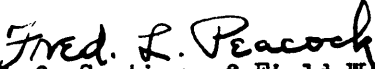
H-1088 (1870)	in part
H-1099 (1871)	" "
H-3663 (1914)	" "

13. Reviewed by - Harold W. Murray, May 20, 1936.

Inspected by - E. P. Ellis, May 28, 1936.

Examined and approved:


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


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


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


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

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

Applied to chart No. 832, Jan. 21, 1937. R.L.J.