

5918

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

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. 9

State North Carolina

LOCALITY

PAMLICO RIVER, N. C.

North, Sinclair, Lee and Durham Crs.

1935

CHIEF OF PARTY

John A. Bond

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

DEC 20 1985

REG. NO.

Acc. 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. 9

REGISTER NO. **5918**

State North Carolina

General locality PAMLICO RIVER

Locality North, Sinclair, Lee and Durham Creeks³⁺

Scale 1:10,000 Date of survey April - August, 19 35

Vessel MIKAWA

Chief of Party John A. Bond

Surveyed by T. A. Rydingsvard

Protracted by D. M. Watt

Soundings penciled by G. C. McGlasson

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by _____

Inked by C. F. McKinney

Verified by Harold W. Murray

Instructions dated _____ August 31, 1934

Remarks: _____

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 9

PAMLICO RIVER - North, Sinclair, Lee & Durham Creeks, North Carolina

DATE OF INSTRUCTIONS - August 31, 1934

Project No. HT-197

LIMITS

The sheet, covering two separate layouts, covers North and Sinclair Creeks, and Lee and Durham Creeks. The North and Sinclair Creeks portion joins sheet 7 of this season's work. The Lee and Durham Creeks portion joins sheet 11 of this season's work. ✓

SURVEY METHODS

Standard Coast Survey methods of hand lead soundings and sextant fixes were used throughout. Close to the shoreline and in the extremities of the small tributaries sextant fixes were occasionally impractical and the positions were therefor plotted on the boat sheet in reference to nearby topographic detail, appropriate notes being made in the sounding records. ✓

All soundings on the sheet were obtained from a 24 foot skiff powered by a Johnson 9 H.P. outboard motor. The 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 were necessary throughout any of the work. ✓

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 blue 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 or tributaries. ✓

COMPARISON WITH PREVIOUS SURVEYS

In comparison with soundings shown on chart 537, little change appears to have occurred in the area covered by the sheet except at the entrance to North Creek. In this locality the spit marked by the buoy S2 has built out about 300 yards west of its chart location. The entrance buoys, though misplaced on the chart, are well placed to mark the dangers intended.

Practically no change
have. See Rev.
par. 7a.
N.M.M.

SHORELINE ON SMOOTH SHEET

Shoreline as shown on the smooth sheet, except for the area in North Creek east and northeast of signal On (Long. $76^{\circ} 39'$) was surveyed by standard topographic methods on aluminum mounted sheets. The shoreline east of signal On was run and signals located on aluminum mounted sheets but was adjusted in minor instances to agree with the shoreline covered by the air photo compilation sheet of Lieutenant S. B. Grenell.

LANDMARKS FOR CHARTS

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

Submitted by,

T. A. Rydingsvard

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

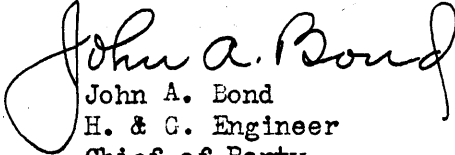
Approved by:

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

LIST OF STATISTICS - SHEET 9

Date	Day Letter	Volume	Statute Miles	Soundings	Positions
Apr. 11	a	1	19.2	798	160
12	b	1	4.0	161	30
13	c	1	8.5	309	84
15	d	1 & 2	16.6	727	145
17	e	2	12.1	474	88
July 18	f	3	5.1	212	53
30	g	4	21.2	828	176
31	h	4 & 5	19.3	735	185
Aug. 1	j	5	0.8	31	10
			<u>107.4</u>	<u>4275</u>	<u>931</u>

Smooth Sheet No. 9 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

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ...5918

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

Number of positions on sheet	.93!
Number of positions checked12
Number of positions revised✓
Number of soundings recorded	.4275
Number of soundings revised5
Number of signals erroneously plotted or transferred✓

Date: March 30, 1936

Verification by Harold W. Murray
Checked by C. F. McKinney
Review by Harold W. Murray

Time: 74 hrs } 253
18 .. }
Time: 64 "

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		
4	Garrison's Pt. ON T1210	
5	Durham's Creek ON 1210	
6	Porter's Creek ON 1210	
7	Lee's Creek ON T1212	
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Hydrographi Survey No. H5918

Name on Survey	Source											
	A	B	C	D	E	F	G	H	K			
<u>Sinclair Creek</u> ✓	*											1
<u>North Creek</u> ✓	*											2
<u>Cousin Pt.</u> ✓	*											3
<u>Garrison Pt.</u> ✓	*											4
<u>Durham Creek</u> ✓	*						✓	✓				5
<u>Porter Creek</u> ✓	*											6
<u>Lee Creek</u> ✓	*											7
<u>Ross Creek</u> ✓		T5554										8
<u>East Creek ^{Prong}</u> ✓ <i>6/11/36</i>		T5554	*	REPLACEMENT								9
												10
												11
												12
												13
Names underlined in red approved											14	
by K.T.A. on 1/7/36											15	
												16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 14, 1936

Division of Hydrography and Topography:

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

Tide Reducers are approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 5918

Locality North, Sinclair, Lee and Durham Creeks, Pamlico River, N. C.

Chief of Party: John A. Bond in 1935

Plane of reference is mean low water reading
2.2ft. on tide staff at Goose Creek
2.4ft. below B.M. 1
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.

Verification Report on H-5918 (1935)

1. Condition of Records.

The records are exceptionally neat and legible and conform to the requirements of the Hydrographic Manual except that a number of detached positions were not conveniently accompanied by lat. & long. values. This would naturally assist in spotting these positions on the smooth sheet.

2. Shore Line and Control.

The shore line and control originates with topographic field sheets "N", "X" and "AA". These sheets were compared in advance of their registration. Comparison was also made with air photo sheet T-5554 in advance of review. This sheet covers East Fork, Ross Creek and part of North Creek. No further air photo sheets nor air photo work is contemplated in the area covered by the present survey (Auth. - Mr. B.G. Jones). Above sheets registered at time of review. X.P.M.

3. Sounding Line Crossings.

Such cross lines as were run as a result from the work are in excellent agreement with the main system of lines.

3. Depth Curves
The usual depth curves may be satisfactorily drawn.

4. Junctions with Contemporary Surveys.

a. The junction with H-5919 (1935) will be considered in the verification of that survey.

b. Junction with Field sheet No. 11 will be considered when that sheet is received in the office. (H-5918, 1935)

5. Field Notes

Field notes and plotting were exceptionally accurate and conform to the requirements of the F. M.

6. Verified by Harold W. Murray March 30, 1936
Inked by C. F. McKinney

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5918 (1935) FIELD NO. 9

North, Sinclair, Lee and Durham Creeks
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 - T. A. Rydingsvard.
Protracted by - D. M. Watt.
Soundings penciled by - G. C. McGlasson.
Verified and inked by - Harold W. Murray and C. F. McKenney.

1. Condition of Records.

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

- a. A number of detached positions were not accompanied by the latitude and longitude values when the immediate locality of the work changed.
- b. The duplicate of the chart forwarded to the Lighthouse Bureau containing objects for locating aids to navigation was not received by this office.

The Descriptive Report is exceptionally clear and comprehensive and satisfactorily 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.

3. Shoreline and Signals.

- a. The shoreline is from T-6407 (1935), T-6413 (1935), T-6416 (1935) and T-5554 (1934).
- b. The signals are from T-6407 (1935), T-6413 (1935), and T-6416 (1935).

4. Sounding Line Crossings.

No system of cross lines were run but those that result from the work are satisfactory.

5. Depth Curves.

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

6. Junctions with Contemporary Surveys.

- a. The junction at the mouth of Lee and Durham Creeks with H-5941 (1935) is satisfactory.
- b. The junction at the mouth of Sinclair and North Creeks, will be considered in the review of H-5919 (1935).

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

This 1:20,000 scale survey covers Sinclair and North Creeks, Soundings are generally in close agreement, although depths on the present survey in the center of the channels frequently vary 1/2 to 1 foot shoaler.

In the vicinity of the entrance to North Creek (latitude 35° 24.9', longitude 76°40.0') the development on the old survey is rather sparse, and the delineation of the channel limits approximate only. The present survey shows a well defined spit with depths of 1 and 2 feet making out from the east entrance point of North Creek, which was entirely missed in the old survey. Hence, the apparent changes from the charted information.

b. H-1100(1871).

This 1:20,000 scale survey covers Durham and Lee Creeks. Depths are in excellent agreement with the present survey, although a few spots in the deeper areas vary 1/2 to 1 foot deeper in some cases and shoaler in others.

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

Within the area covered by the present survey the hydrography shown on the chart originates with surveys discussed in preceding paragraphs of this review.

b. Aids to Navigation.

- (1) The lighted beacon at the mouth of Durham Creek was located on the present survey approximately 70 m. SE of its charted position. The charted position originates with Lighthouse Notice to Mariners No. 21 (1926) and is based on the intersection of azimuths to three other known objects. The position as shown on the present survey adequately marks the feature intended.
- (2) Buoys S1 and S4 in North Creek were located on the present survey in positions varying 45 m. SSE, and 140 m. SW respectively, from the charted positions. The

buoys have been shown in their charted positions since the 1st Edition of the Chart in 1914. The positions as shown on the present survey adequately mark the features intended.

- (3) Red Buoy S"2" at the mouth of North Creek was located on the present survey approximately 320 m. NW of its position on the chart, the latter position being based upon incomplete hydrographic information on the survey of 1871 (see par. 7a, this review). However, the Lighthouse Notice to Mariners No. 24 (dated June 11, 1936) places the buoy approximately 80 m. NE X N. of the position determined by the present survey. This Lighthouse notice position does not mark the entrance to North Creek as well as the position shown on the present survey. Since the Lighthouse information is subsequent to the date of the present survey, it is not certain whether the buoy has been moved since our survey or whether the information given in the Notice to Mariners is from an approximate spotting on the chart. This matter has been referred to the Lighthouse Bureau.

A hand correction is now being made to the chart to show the present Lighthouse location of the buoy and the changed channel.

- (4) The present survey shows a red spar buoy in latitude $35^{\circ}25.0'$, longitude $76^{\circ}39.8'$, which is not shown on the Chart nor mentioned in the 1936 Local Light and Buoy List. The buoy is probably privately maintained.

9. Field Plotting.

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

10. Additional Field Work Recommended.

This is an excellent survey and no additional field work is required.

11. Note to Compiler.

Attention is called to field letter dated June 15, 1936, attached to this review regarding the non-charting of the remains of an old dock in latitude $35^{\circ}25.7'$, longitude $76^{\circ}38.3'$.

12. Superseding Previous Surveys.

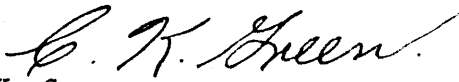
Within the area covered, H-5918 (1935) supersedes the following surveys for charting purposes:

H-1099 (1871) in part
H-1100 (1871) " "

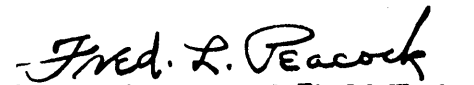
13. Reviewed by - Harold W. Murray, June 12, 1936.


Inspected by - A. L. Shalowitz.

Examined and approved:


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


R. O. Lobbut,
Chief, Division of Charts.


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


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

80 CKG

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

June 15, 1936

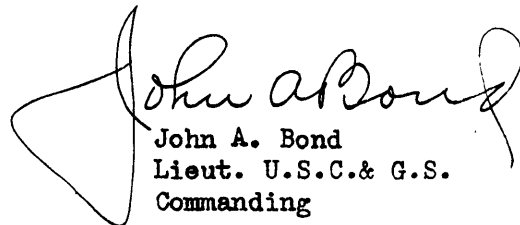
1936 JUN 17 8:26 AM

To: The Director
U. S. Coast and Geodetic Survey
Washington, D. C.

From: Commanding Officer
U.S.C.& G.S.S. MIKAWA

Subject: Hydrographic Survey H-5918, Pamlico River, N. C.

Referring to your letter of June 12, 1936 (82-LEF), relative to an indefinite feature shown on the boat sheet of survey H-5918 (Field No. 9) - I have consulted Mr. D. M. Watt who did the topography in the area in question and he advises me that the feature referred to is the remains of an old dock, nothing of which remains but a few scattered piles. The piles are small and are in very poor condition; it is probable they will not last long. For this reason the topographer did not indicate them on his sheet and it is recommended that the feature be not charted.


John A. Bond
Lieut. U.S.C.& G.S.
Commanding

CKG
KTA

82-LEF

June 12, 1936.

To: Commanding Officer,
Coast and Geodetic Survey,
Launch MIKANS,
c/o Harbor Master, City Docks,
Atlantic City, New Jersey.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Hydrographic Survey H-5918, Pamlico River, N. C.

Enclosed is a sketch of a section of your survey H-5918 (field No. 9), North Creek, Pamlico River, North Carolina. A small feature having the appearance of a sand spit or of the remains of an old wharf is shown on the sketch as transferred from the boat sheet. This feature is not shown on the contemporary plane table survey, nor on the air photo compilation, nor is it referred to in the sounding records, although the sounding line was broken at this point.

Please furnish such information as will permit the proper charting of the feature.

(Signed) J. H. HAWLEY

Enclosure

Acting Director.

Examined - C.F.

Calif. Dec. 30-35

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