

5873

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } Sheet No. 3
Hydrographic }

State North Carolina

LOCALITY

Vicinity of Pungo River
Broad, Pantego and Pungo Creeks.

193 5

CHIEF OF PARTY

John A. Bond

5873

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. 3 5873

REGISTER NO.

State North Carolina
 General locality Vicinity of Fungo River (Pamlico Sound)
 Locality Broad, Pantego and Fungo Creeks
 Scale 1:10,000 Date of survey March - April, 19 35
 Vessel MIKAWA
 Chief of Party John A. Bond
 Surveyed by D. E. Sturmer, T. A. Rydingsvard
 Protracted by A. van Reuth
 Soundings penciled by A. G. Turner
 Soundings in ~~fathoms~~ - feet
 Plane of reference M.L.W.
 Subdivision of wire dragged areas by _____
 Inked by G. C. Mc Blosson
 Verified by G. C. Mc Blosson
 Instructions dated August 31, 19 34
 Remarks: _____

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 3

PUNGO RIVER - Pantego and Pungo Creeks.

DATE OF INSTRUCTIONS - August 31, 1934. Project HT-197 ✓

LIMITS

The sheet covers the western portions of Pantego, Broad and Pungo Creeks, the eastern portions of which are covered on Sheet 2 of this season's work. The extreme western portion of Pungo Creek is shown on the smooth sheet in an inset.

SURVEY METHODS

Standard Coast Survey methods of hand lead sounding and sextant fixes were used throughout. Close to the shoreline and in the extremities of the small sloughs 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 record. ✓

All sounding on the sheet was done from a 24 foot skiff powered by a Johnson 9 H.P. outboard motor. The leadline was Samson mahogany tiller rope graduated in fathoms and feet, used with an 8 pound lead. The leadline held its length remarkably well and no leadline corrections are 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 red in the sounding records. ✓

DANGERS

No dangers are known to exist which would obstruct small boat navigation in the mid-stream channels of the creeks. ✓

COMPARISON WITH PREVIOUS SURVEYS

In general, the sheet is in excellent agreement with soundings shown on Chart 1231. No new shoals have appeared and no deepening has occurred. ✓

LANDMARKS FOR CHARTS

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

SHORELINE ON SMOOTH SHEET

The shoreline inked on the smooth sheet was obtained from the completed air-photo sheets of the area (Lieutenant Grenell) and was transferred to the sheet by means of a new-type projector. ✓

With the exception of a small area at the northern extremity of Pungo Creek, the shoreline had previously been run and signals located by standard topographic methods on aluminum mounted sheets. ✓ Minor differences between the topographic sheets and the air-photo sheets were adjusted before the transfer was made. As inked on the smooth sheet the shoreline now agrees accurately with that shown on the air-photo sheet.

In the upper extremity of Pungo Creek signals were spotted on the field prints of the photos, transferred to the celluloid compilation sheets and projected on to the smooth sheet. ~~and boat sheet.~~ ✓

(See below)

Submitted by:

T. A. Rydingsvard

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

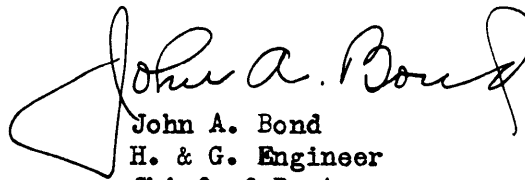
Approved by:

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

A short section of shoreline at the northern extremity of Pantego Creek (Lat. 35° 35'; Long. 76° 39'), not covered on the photo compilation sheet, but run on the topo sheet, is shown on the smooth sheet in pencil. ✓

*Inked by verifier in office
This portion of the shoreline
was also inked on the
graphic control sheet T-6341(1935)*

Smooth sheet No. 3 was plotted under the immediate supervision of the Chief of Party. The sheet and accompanying records have been inspected and are approved. ✓

A handwritten signature in cursive script that reads "John A. Bond". The signature is written in dark ink and is positioned above the typed name and title.

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

STATISTICS FOR HYDROGRAPHIC SHEET 3

Date	Day Letter	Vol.	Miles (Statute)	Soundings	Positions
March 15	a	1	21.0	858	153
16	b	1	11.0	478	80
18	c	2	19.2	798	172
19	d	2	19.3	733	122
20	e	3	20.0	764	128
21	f	3	22.4	925	174
22	g	4	17.4	721	144
23	h	4	8.2	335	76
25	j	4	7.4	307	78
Totals			145.9	5919	1127

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **5973**.

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

Number of positions on sheet	1127
Number of positions checked	12
Number of positions revised	None
Number of soundings recorded	5919
Number of soundings revised	12
Number of signals erroneously plotted or transferred	None

Date:

Verification by *E.C. McBliss*

Time: 16½ hr.

Review by *R.G. Christman*

Time: 7 hrs

HYDROGRAPHIC SURVEY NO. 5873

Smooth Sheet Yes

Boat Sheet 1

Sounding Records Yes Vols. 4

Descriptive Report Yes

Title Sheet Yes

List of Signals Vol. 1

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 _____

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
4 volumes of sounding records for

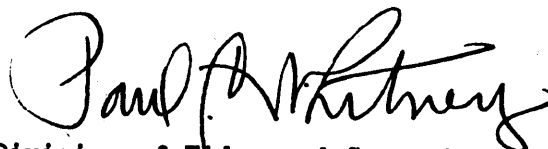
HYDROGRAPHIC SHEET 5873

Locality: Broad, Pantego and Pungo Creeks, N. C.

Chief of Party: John A. Bond in 1935
Plane of reference is mean low water reading
2.8 ft. on tide staff at Belhaven
2.9 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.

Report on H 5873

1. The records conform to the requirements of the General Instructions.
2. The usual depth curves can be completely drawn within the limits of the sheet.
3. The field plotting was completed to the extent prescribed in the Hydrographic Manual.
4. The office draftsman had to ink part of the shoreline which was left in pencil on the smooth sheet, because the air-photo compilation sheet did not cover the area.
5. The junction with the contemporary adjacent sheet (H 5897) is satisfactory.
6. The shoreline was taken from the air photo compilation sheets # 5552 and 5553

The signals were taken from aluminum mounted topographic sheets T-6340, T-6341, and T-6342.

The shoreline on the upper part of ~~pan~~ Pantego Creek not shown on the air photo sheet was taken from the Aluminum mounted topographic sheet T-6341.

7. Discrepancies:

There are three wrecks in Pantego Creek shown on the air photo compilation sheet. These wrecks were not shown

on the aluminum mounted topographic sheets nor were they recorded in the sounding columns. Therefore it is doubtful if they actually exist, however they are shown on the smooth sheet in pencil and as soon as the photographs arrive in this office it will be determined if these wrecks exist and then they may be removed or inked on the smooth sheet as the case may be.

In volume 3, page 63, a note that line ends at fish net is recorded. This fish net is not shown on the smooth sheet for lack of sufficient information.

The $6\frac{1}{2}$ and $12\frac{1}{2}$ soundings were shown on this sheet, when warranted, in order to smooth the ^{6 foot} one and two ^{12 foot} fathom curves.

Respectfully submitted,
E.C. McGlendon

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5873 (1935) FIELD NO. 3

Broad, Pantego and Pungo Creeks, Vicinity of Pungo River, N. C.
Surveyed in March and April 1935.
Instructions dated August 31, 1934 (MIKAWA)

Hand Lead Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - J. A. Bond.
Surveyed by - D. E. Sturmer and T. A. Rydingsvard.
Protracted by - A. van Reuth.
Soundings penciled by - A. G. Turner.
Verified and inked by - G. C. McGlasson.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual.

It is desirable to use a distinctive color or special symbol to designate signals located from the air photo compilations or by spotting on the air photographs. The red circle should be reserved for signals located by standard plane table methods.

The Descriptive Report is complete and satisfactorily covers the items of importance.

2. Compliance with Instructions for the Project.

The plan and character of development are in accordance with the instructions for the project.

3. Shoreline and Signals.

The shoreline originates with air photo compilations T-5552 (1934) and T-5553 (1934). A small portion of Pantego Creek, which falls beyond the limits of the air photo compilation is taken from Graphic Control Survey T-6341 (1935).

The signals are from Graphic control surveys T-6340 (1935), T-6341 (1935), T-6342 (1935), and signals spotted on the air photos in the field. The latter are shown with the name underscored.

4. Sounding Line Crossings.

The sounding line crossings are satisfactory, the depths agreeing within 1 foot or less.

5. Depth Curves.

Within the area surveyed, the usual depth curves may be satisfactorily drawn.

6. Junction with Contemporary Surveys.

The junction with H-5697 (1935) to the eastward is satisfactory.

7. Comparison with Prior Surveys.

H-1140b (1872 and 1874).

This survey on a scale 1:20,000 is in good agreement with the present survey. Several of the tributary streams have shoaled 1 to 2 feet and in a few places the present survey shows greater depths in the deeper holes. Because of the larger scale and closer development of the present survey, H-5873 (1935) should supersede the above survey for future charting purposes.

8. Comparison with Chart 1231 (New Print dated Dec. 16, 1935).

a. Hydrography.

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

b. Aids to Navigation.

There are no charted aids to navigation in the area of the present survey.

9. Field Plotting.

The field plotting was very well done.

10. Additional Field Work Recommended.

The survey is satisfactory and no further work is required.

11. Superseding Old Surveys.

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

H-1140b (1872 and 1874) in part.

12. Reviewed by - R. J. Christman, March 20, 1936.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

K. T. Adams
Acting Chief, Division of Charts.

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

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

25 - Dec. 31, '35

CHD.

Applied to Chart Correction 1231. May 20, 1937 N.E.M.

Applied to chart 537 June 7th 1956 (rew).