

4920

Diag. Cht. No. 78-2

4920

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
....., Director	
State: Maryland.....	
DESCRIPTIVE REPORT	
Topographic Hydrographic	} Sheet No. ² 4920
LOCALITY	
Potomac River and Chesapeake	
Bay.	
Point Lookout	
1929	
CHIEF OF PARTY	
J. Senior	

DESCRIPTIVE REPORT NO

ACCOMPANY SHEET

(Field) NO 2. 4920

INSTRUCTIONS:

The survey was made in accordance with Instructions from the Director dated July 3, 1929.

SURVEY METHODS:

The Instructions called for a complete survey of the area shown on the sheet and this work was done partly by the ship and partly by a launch.

Cornfield Harbor and a narrow strip close to the eastern shore of Point Lookout, approximately to the two-fathom curve, were surveyed by the launch, while the area east of the two-fathom curve was surveyed by the ship.

All soundings were taken by means of a hand lead and all positions were determined by sextant angles between objects ashore. The control consisted of third order triangulation stations and topographic signals.

The sounding lines run by the launch and the ship had a spacing of 100 meters and 200 meters, respectively. The 200 meter lines were run as splits of the old survey.

DISCREPANCIES:

There are no discrepancies in depths, positions, or location of signals on the sheet.

DANGERS:

Five shoal spots were developed. One of these was a 20-ft. spot reported in Chart Letter No.109, by the S.S. REDMAN and at present shown on C. & G.S. Chart No. 557, $2\frac{1}{4}$ miles, 42° true. The "Natoma" obtained a least depth of 22 feet in this locality. The position of the 22-foot sounding is Lat. $38^\circ 03'$ +1786 meters, Long. $76^\circ 17'$ +602 meters. It was the second sounding after position 57 D.

DANGERS (Cont'd):

The 18-foot sounding in Cornfield Harbor reported in Chart letter No. 510 by the Coast Guard Cutter "Apache" was not found. A least depth of 20 feet was obtained by the launch on position 64 e, Lat. $38^{\circ} 02'$, 728 meters, Long. $76^{\circ} 20'$ +241 meters. Twenty minutes were spent in drift sounding over this spot. It is recommended that the 18 foot sounding be removed from the chart. A 23 foot sounding is shown on Chart No. 557 in Cornfield Harbor, 286° true, distant 1 mile from Point Lookout light house. A least depth of 21 feet was obtained on position 117 e, Lat. $38^{\circ} 02'$ +278 meters, Long. $76^{\circ} 20'$ +197 meters. Forty-five minutes were spent in drift sounding over the spot.

An 18-foot sounding shown 0.6 mile, $246\frac{1}{2}^{\circ}$ true, from Point Lookout light house was verified. A least depth of 18 feet was obtained on position 121 b, Lat. $38^{\circ} 02'$, +160 meters, Long. $76^{\circ} 20'$ +60 meters. About half an hour was spent in drift sounding over this spot.

The 6-foot sounding in Cornfield Harbor shown beside spar buoy 4 was not found. The least depth found was 10 feet on position 48 e, Lat. $38^{\circ} 02'$, +680 meters, Long. $76^{\circ} 19'$ +1022 meters. About an hour was spent in drift sounding over this shoal.

The 30-foot sounding shown on chart 557, 0.9 miles, 117° true from Point Lookout Light House was investigated. This sounding was taken from sheet 2994, 1908-1909. The "Natoma" did not find a 30 foot depth but a general depth of 33 feet. It is recommended that the 30-foot sounding be removed from the chart.

COMPARISON WITH PREVIOUS SURVEY:

With the exception of the fact that the above-named 30 foot shoal could not be verified, the survey shown on the accompanying sheet is in very close agreement with the survey of 1908-1909, sheet No. 2994.

Respectively submitted.

Approved & forwarded.
Jack Dennis
Comd'g "Natoma"
10/5/29

J.C. Bose
J. C. Bose,
Jr. H & G Engr..

STATISTICS FOR SHEET (FIELD) NO. 2

Date 1929	Day Letter	Boat	Statute Miles sounding	Soundings	Positions
July 23	a	Launch	23	610	175
24	b	"	28	718	203
25	c	"	15	317	93
31	A	Ship	18.4	386	98
Aug. 1	d	Launch	21.7	514	145
1	B	Ship	37.4	749	192
5	C	"	33.2	613	173
13	D	"	8.6	219	73
13	e	Launch	16.	570	142
28	E	Ship	3.2	79	26
		Total	<u>204.5</u>	<u>4775</u>	<u>1320</u>

TIDAL NOTE TO ACCOMPANY SHEET (FIELD) NO. 2

A portable automatic tide gauge was maintained on the dock at Point Lookout, Maryland.

Mean low water corresponded to a reading of 2.0 feet on the staff.

The tide reducers determined from the record of this gauge were applied to all soundings on Sheet 2.

*Tidal data previously
forwarded with Hyd. Sheet No. 1*
R

LIST OF SIGNALS USED ON SHEET (FIELD) NO. 2

TRIANGULATION STATIONS:

Point No Point Lt.Ho. 1905 (No)
Hall 2, 1919 (Hall)
Point Lookout Lt.Ho. 1846 (Light)

TOPOGRAPHIC SIGNALS:

END	POINT
TRIP	CON
FLAG	STUMP
OUT	WRECK
NET	SIG
IN	HOT
POD	TANK
TRAP	TEL
FISH	REAR
DO	LOW
TREE	EAST
TEN	GREEN
DIM	POLE
WAR	PINE
	WAT
	BARN

Section of Tides and Currents

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 4920

Point Lookout, Md.

Locality:

Chief of Party: Jack Senior, in 1929
Place of reference is mean low water reading Point Lookout, Md.
ft. on tide staff at
ft. below B. M.

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Paul C. Whitney

Chief, Division of Tides and Currents.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE

AND REFER TO NO. 11-DRM

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 18, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4920

Vicinity of Pt. Lookout, Chesapeake Bay, Maryland

Surveyed in 1929

Instructions dated July 3, 1929 (NATOMA)

Chief of Party, Jack Senior.

Surveyed by J. S. and J. C. Bose.

Protracted by F. A. Riddel.

Soundings plotted by W. J. Chovan.

Verified and inked by J. H. Church.

1. The purpose of this survey was to make a complete examination of the area covered by this survey with particular attention to certain charted shoals reported at various times to this Bureau. Inasmuch as the chart has already been corrected from a letter sent by the field party in advance of the smooth sheet, only such points will be considered in this review where further action is necessary or where additional work is required.

(a) The 3 fathom sounding reported by the APACHE.

This sounding was charted in Lat. $38^{\circ} 02' 720$ m., Long. $76^{\circ} 20' 240$ m. on authority of Chart Division letter 510 of 1926. The least depth found in the present survey is 20 feet. The APACHE's report contained no statement as to the time when the sounding was taken, the stage of the tide at the time, the condition of the lead line, or the actual depth in fathoms and feet that was obtained. It is possible that the depth found was slightly more than 3 fathoms and it is also possible that there was a slight minus tide, both of which factors would tend to harmonize their report with the least depth found on the present survey. Therefore, considering the uncertainties surrounding the APACHE's report and the fact that the field party spent 20 minutes in running drift lines over the spot, it is recommended that the 18 be removed from the charts.

Attention is called to the fact that while a 22 foot sounding was previously charted in the position of the 18, there should have been a 20 foot sounding (see H. 2739). This sounding had evidently been omitted since the first compilation of chart 557.

(b) The 6 foot sounding near buoy S4.

This sounding was originally placed on the chart from verbal information obtained by Mr. McGuire, of the Cartographic Section, from the Captain of the Lighthouse Tender HOLLY (see Chart Division letter 201 of 1911 and blue print 13779). It is understood that the 6 foot spot was supposed to be located near the 1911 charted position of the buoy. When the sounding was added to the chart it was made to replace a 9 foot sounding (9 3/4 actual) charted about 116 meters to the northward of the buoy. It is quite evident therefore that the charted position of the 6 foot sounding was necessarily approximate and hence any indication of a shoaling in the vicinity might be considered as corroborative of the existence of the 6 foot spot.

The present survey shows a detailed examination of the immediate vicinity of the charted 6 foot spot and the least depth found was 10 feet. This verified the 9 3/4 foot spot (mentioned above) found on the survey of 1904 (H. 2739) and also proves that in all probability the 6 foot sounding does not exist in this position. It is noted, however, that about 125 meters to the westward a detached 11 foot sounding, surrounded by depths of 16 to 21 feet, was obtained at positions 10-11 e, verified by a 13 foot sounding at position 176-b, with practically no development around it. It is also significant that this spot is only about 60 meters to the northwest of the 1911 charted position of the buoy. If the 6 foot spot existed in 1911, then there is a strong possibility that it is located near this 11 foot spot. But since the 6 foot sounding has already been removed from the charts on authority of Chart Division letter 504 of 1929 from this party sent in advance of the field sheet, no recommendation will be made at this time that it be restored to the charts, although if the sounding had not already been removed, the writer would have definitely recommended its retention, particularly in view of the apparent stability of the bottom here.

A further examination should nevertheless be made here at the earliest possible time.

(c) The recommendations made by the field party of the other shoals investigated are concurred in. These have already been applied to the charts.

(d) Cartographic recommendations.

Owing to the stable character of the bottom, it is recommended that in applying this survey to the charts, the shoals found on the 1904 and 1908 surveys, that have not been examined in detail on the new survey, should be retained on the charts unless the surrounding depths indicate that a change has taken place. Particular attention is directed to the shoal soundings in vicinity of Lat. $38^{\circ} 04 \frac{1}{2}'$, Long. $76^{\circ} 17 \frac{3}{4}'$.

2. Additional Work.

The only additional work required here is the further examination of the 11 foot spot mentioned in paragraph 1 (b) above.

3. Note: All information regarding fish traps, fish stakes, etc., were omitted from the sheet on authority of A. M. Sobieralski.

4. Reviewed by A. L. Shalowitz, November, 1929.

Approved
A. M. Sobieralski

Section of Field Records

Report on sheet No. 4920

Surveyed in 1929. Instructions dated July 3, 1929

Chief of Party - Jack Senior

Surveyed by - Jack Senior and J. C. Bose

Projected by - F. A. Kiddle

Soundings plotted by - W. J. C. Kovan

Verified and inked by - J. H. Hensch

1. The records conform to the requirements of the General Instructions.

2. The plan and character of the development fulfils the requirements of the General Instructions.

3. The sounding line crossings are adequate.

4. The usual depth curves can be completely drawn except the 6 and 12 foot curves to the east of Pt. Lookout.

5. The field plotting was completed to the extent prescribed by the General Instructions, except the 0 Don was not plotted and the name of A Point Lookout Battery Final, 1901 was not inked on the sheet.

6. The office draftsman did not have to do over any part of the drafting done by the field party except in a minor way.

7. There are no contemporary adjacent sheets.

8. Remarks:-

The fixes determining the ends of the lines on the offshore launch work were weak, but did not offer especial difficulty in plotting. Also a Bell Buoy was used as a signal, however it did not seem to materially affect the fixes in which it was used as a signal, as might be expected due to its watch.

The sheet was very carefully and neatly plotted by the field party.

Respectfully submitted
J. H. Church
Nov. 21, 1929.

8. Remarks:-

The fixes determining the ends of the lines on the offshore launch were one weak, but did not offer especial difficulty in plotting. Also a Bell Buoy was used as a signal, however it did not seem to materially affect the fixes in which it was used as a signal, as might be expected due to its watch.

The sheet was very carefully and neatly plotted by the field party.

Respectfully submitted
J. H. Sturck
Nov. 21, 1929.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A
OCT 4 1929
Acc. No.

REG. NO. 4920

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. 2

REGISTER NO. 4920

State MARYLAND

General locality Potomac River and Chesapeake Bay

Locality Point Lookout.

Scale 1:20,000 Date of survey July 23 to Aug 28, 1929

Vessel M.V. Natoma

Chief of Party Jack Senior

Surveyed by Jack Senior and J.C. Bose

Protracted by F.A. Riddell, P.O.

Soundings penciled by W.J. Chovan, Jr. H + B. E.

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated July 3rd, 1929

Remarks: Revision survey to locate and develop reported shoal soundings.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 18, 1930.

AND REFER TO No. 11-DEM

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4920

Vicinity of Pt. Lookout, Chesapeake Bay, Maryland

Surveyed in 1929

Instructions dated July 3, 1929 (NATOMA)

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Surveyed by J. S. and J. C. Bose.

Protracted by F. A. Riddel.

Soundings plotted by W. J. Chovan.

Verified and inked by J. H. Church.

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2. Additional Work.

The only additional work required here is the further examination of the 11 foot spot mentioned in paragraph 1 (b) above.

3. Note: All information regarding fish traps, fish stakes, etc., were omitted from the sheet on authority of A. M. Gobierski.

4. Reviewed by A. L. Shalowitz, November, 1929.