6600

Form 504
Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

~~*Topographic*~~
Hydrographic } *Sheet No.* H-6600

State Maryland

LOCALITY

Chesapeake Bay

Chester River, ~~Grays Inn Creek~~ and Corsica River

*19*40

CHIEF OF PARTY

F. L. Gallen

U. S. GOVERNMENT PRINTING OFFICE 102221

6600

cp

Form 537
Ed. Dec. 1930

REG. NO. H6600

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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. 1004

REGISTER NO. H-6600

State Maryland

General locality Chesapeake Bay

Locality Chester River, and Corsica River ~~Grays Inn Creek~~

Scale 1:10,000 Date of survey Aug., 1940

Vessel Launches MITCHELL & OGDEN

Chief of Party F. L. Gallen

Surveyed by Ross A. Gilmore

Protracted by Norfolk Processing Office

Soundings penciled by " " "

Soundings in fathoms feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by John K. Hartsock

Verified by John K. Hartsock

Instructions dated April 17, 1940

Remarks:

U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet H-6600 (1940)

INSTRUCTIONS

The instructions for the work covered by this sheet are dated April 17, 1940, for Project HT-250.

LIMITS

This survey covers that portion of the Chester River and its tributaries between Lat. 39 04.3 and Lat. 39 07.8 (approx.). It includes Grays Inn Creek, the southern half of Langford Creek including the lower part of East and West Forks, all of the Corsica River, and Comegys Bight. The southern limits of the sheet joins with the hydrography of sheet H-6599 (1949) and the northern limits join with the hydrography of sheet H-6601 (1940) of this project.

SURVEY METHODS

The hydrography on this sheet was controlled by signals located by triangulation, air photographic compilation, sextant cuts, and sextometer distances. All triangulation stations were recovered stations of previous surveys made in 1909 and 1938. All air photographic signals used are shown in small black circles on the smooth sheet and were obtained from air photographic surveys made by the Baltimore Compilation office. In some cases, where a radial plotted position didn't check in the field, a new location was determined by sextant cuts or fix from other signals. These new positions, as used on the smooth sheet, have been indicated as hydrographic signals (in blue). Hydrographic signals, in addition to those furnished, were located by sextant cuts from triangulation stations, sextant fixes at the signal, or by sextant cuts and sextometer distances from previously located signals. Five signals, shown in red circles, apparently were located by tape and azimuth from △ stations.

All shoreline for this sheet was furnished by the Washington Office in pencil, and then inked-in in the field. A few revisions in shoreline were made during the progress of the work and these have been indicated in ~~blue~~ red on the ~~smooth sheet~~ smooth sheet. Shoreline, except revisions, is from topographic maps T-5698, T-5699, T-5701, T-5702 and T-5703.

In general, the hydrography was accomplished by the usual sextant fix method, and all soundings were taken with the hand lead. In a few cases, along the shoreline, positions were determined by estimated distance and direction to signals, and occasionally at the heads of very narrow streams where a fix could not be taken, positions were estimated from the adjacent shoreline. All sounding lines were run by ranges.

All Floating Aids to Navigation within the limits of this sheet were located by sextant fixes and check angles.

DISCREPANCIES

No known discrepancies exist on this sheet except those noted in regards to signal location and shoreline as stated under the paragraph "Survey Methods".

DANGERS

There are no dangers in the buoyed channels on this sheet, except in the Corsica River in Lat. 39 04.87, Long. 76 06.90, where a least depth of 6 feet is encountered. Numerous oyster bars and mounds are found along the edges of the deep water channel of the Chester River. These cases are too numerous to itemize and can readily be decerned from an examination of the sheet. This condition seems to exist mainly on the south side of the channel.

Par. 5b, Rev.

CHANNELS

The controlling depth of the main channel of that portion of the Chester River, covered by this survey, is 22 feet. This is the maximum depth found at the southern limit of the sheet. From thence on north, the channel depth is much greater, at times reaching a depth of 61 feet. This river is used by small produce freighters and oil barges plying between Baltimore and Chestertown.

There is a clear channel into Grays Inn Creek and a least depth of 8 feet can be carried to Lat. 39 06.9, thence the depth gradually decreases to the head of the creek. Herringtown Creek, which branches off to the east from Grays Inn Creek, has a gradually shoaling channel, starting at 8 feet, to the flats at the head. This creek is used mainly by small pleasure craft and fishing boats.

The channel into Langford Creek is unobstructed, affording a least depth of 12 feet the entire length of that portion included in this survey up into the West Fork and at least 10 feet in the East Fork. There are several small creeks and coves of varying depths branching off Langford Creek, which are frequented by low draft craft.

The Corsica River channel is buoyed up to a point off Jacobs Nose and adheres closely to the middle of the river with a controlling depth of 8 feet, thence the channel meanders, with a controlling depth of 5 feet to the Centerville Landing. This river is used by pleasure craft and occasional oil barges and freighters to the landing at the head.

COMPARISON WITH PREVIOUS SURVEYS

In general this survey compares very closely with previous surveys and chart 548 of this area. The detached shoal spot east of Spring Point in Grays Inn Creek no longer exists and should be removed from the chart. No evidence of this spot could be found after considerable time was spent sounding around this area.

lat. 39°05.6' long. 76°12.2' Par. 5b, Rev.

The detached 6 foot spot shown on chart 548 in Lat. 39 06.7, Long. 76 06.7 on the edge of the channel on the Chester River has evidently worn away and the shoalest depth in this vicinity is 8 feet.

Par. 5a, Rev.

There is a shoal in the Corsica River off Ship Point with a least depth of 6 feet that should appear on chart 548. The head of Corsica River has shoaled ~~considerably~~ some from that which is shown on chart 548. Par. 5b, Rev.

A good junction was made with sheet H-6599 (1940) at the southern limits of this survey and also with H-6601 (1940) at the northern limits.

GEOGRAPHIC NAMES

All geographic names for this sheet have been investigated by the Baltimore Air Photographic Compilation Office just prior to this survey and have been used on this sheet accordingly.

GENERAL

The road shown on chart 548 at Lat. 39 04.15, Long. 76 05.00 should be deleted as this is strictly a private road now and causes the owner considerable annoyance because of being shown as a public thoroughfare.

RECOVERABLE HYDROGRAPHIC AND TOPOGRAPHIC STATIONS

Recovery notes have been submitted on form 524 for all recoverable H. & T. Stations located on this sheet by the hydrographic party. No notes have been submitted for recoverable stations located by the Air Photographic Compilation party on this sheet. 7 cards

Submitted by,

Ross A. Gilmore

Ross A. Gilmore
Jr. H. & G. Engr.

Approved,

F. L. Gallen

F. L. Gallen
H. & G. Engr.
Chief of Party

STATISTICS FOR HYDROGRAPHIC SHEET NO.H-6600 (Field No.1004)

POSITIONS **	4104
SOUNDINGS	18380
STATUTE MILES OF SOUNDING LINES	517.3
AREA , SQUARE STATUTE MILES	14.3

BOAT SHEET NO.H-6600 (Field No.1004) 1:10,000

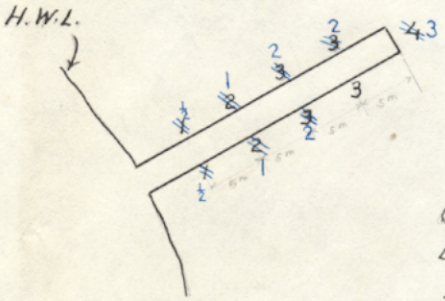
Prepared in Washington Office 3/20/40
Projection made on the ruling machine by ----------J.P.Dunich
Shoreline & Hydrographic Signals(Air Photo) transferred in projector from Air Photographic Surveys T-5698,T-5699, T-5703,T-5701,T-5702, ~~and T-5704~~ by----------F.H.McBeth
Shoreline & Signals checked ,5/20/40 ----------J.P.Dunich

SMOOTH SHEET NO.H-6600 (Field No.1004) 1:10,000

Prepared in the Washington Office 3/25/40.
Projection made on the ruling machine by--------J.P.Dunich
Shorelime & Hydrographic Signals(Air Photo) transferred in the projector frpm Air Photographic Surveys T-5698,T-5699,T-5701,T-5702, T-5703,~~and T-5704~~ by ---------- F.H.McBeth
Shoreline & Signals checked ,5/20/40 ---------- J.P.Dunich

39 06 + 1445 m.
76 13 + 800 m.

Page 37 Vol. 2 Sndg. Records

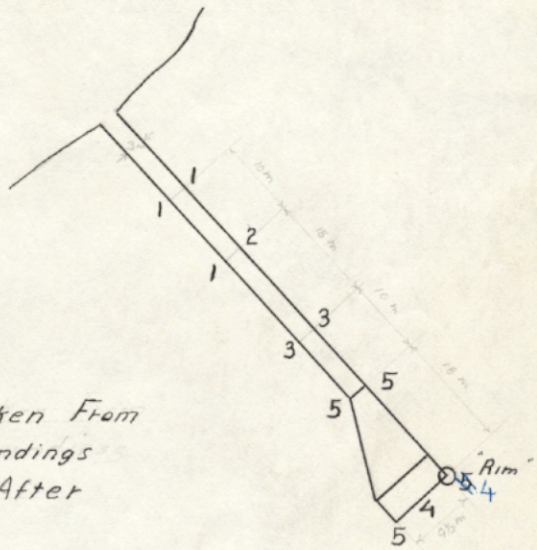


Not to scale

Dock 6' wide

39 06 + 1113 m
76 12 + 911 m

Page 45 Vol. 2 Sndg Records
also page 32 Vol. 3

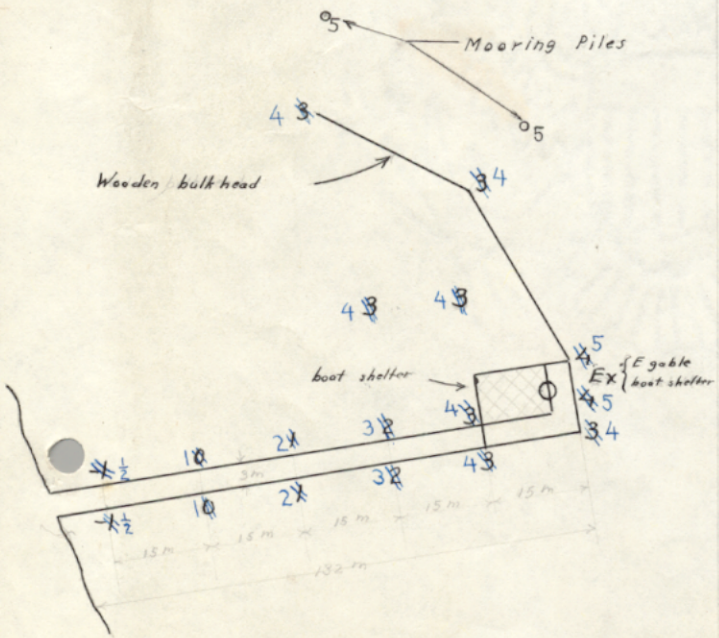


Original Soundings Taken From Boat Sheet. Blue Soundings Are Correct Values After Reduction.

Not to scale

39 05 + 666 m
76 12 + 487 m.

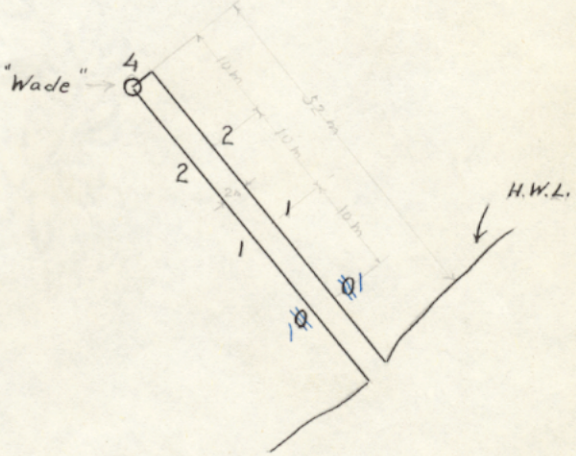
Page 12 Vol. 3 Sndg. Records



Not to scale

39 06 + 1052 m
76 10 + 00 m

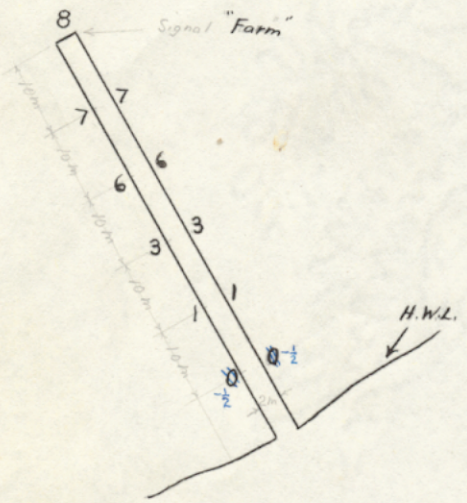
Page 20 Vol. 4 Sndg Records



Not to scale

39 07 + 315 m
76 09 + 1274 m

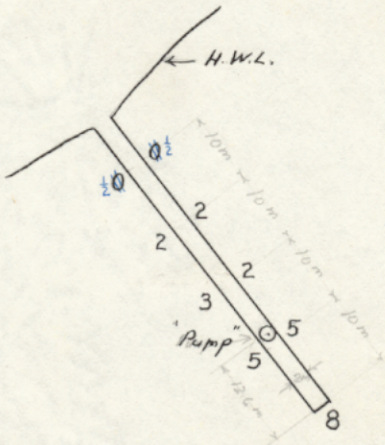
Page 22 Vol. 4 Sndg. Records



Not to scale

39 07 + 1111 m
76 09 + 1145 m

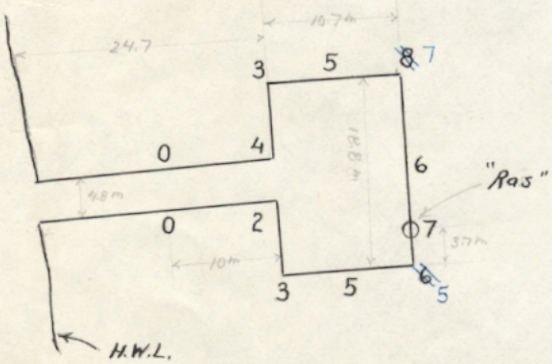
Page 28 Vol. 4 Sndg. Records



Not to scale

39 04 + 1335 m.
76 08 + 533 m

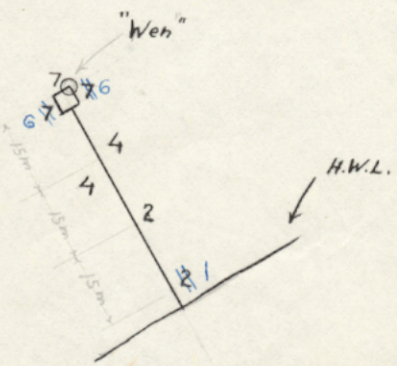
Page 57 Vol. 5 Sndg. Records



Not to scale

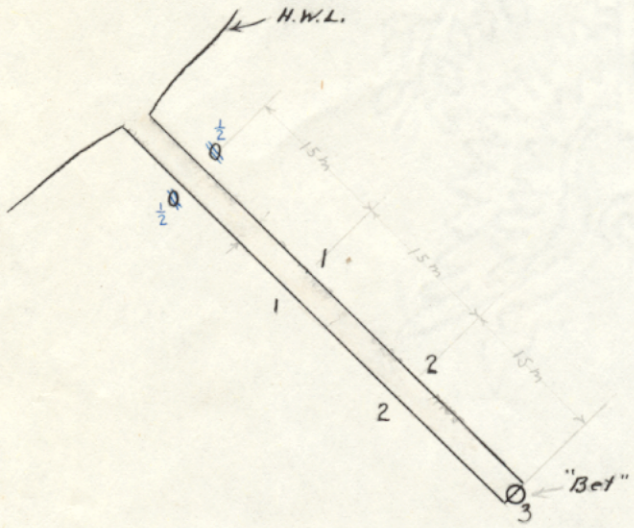
39 04 + 696 m
76 05 + 773 m

Page 67 Vol. 5 Sndg. Records



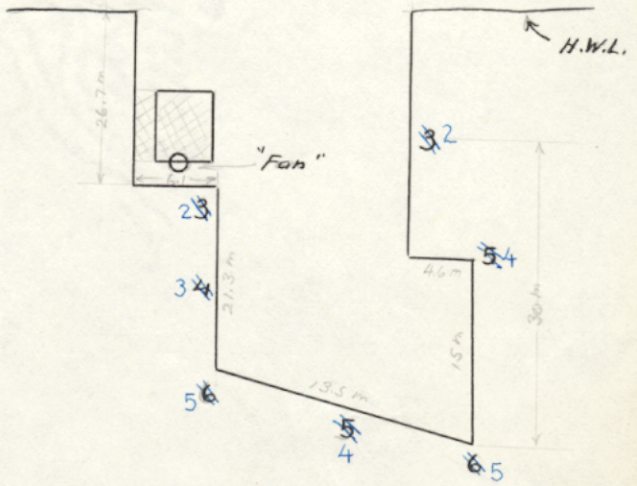
Not to scale
Wharf 3 meters square

39 06 + 1239 m
76 10 + 1274 m
Page 25 Vol. 6 Sndg. Records



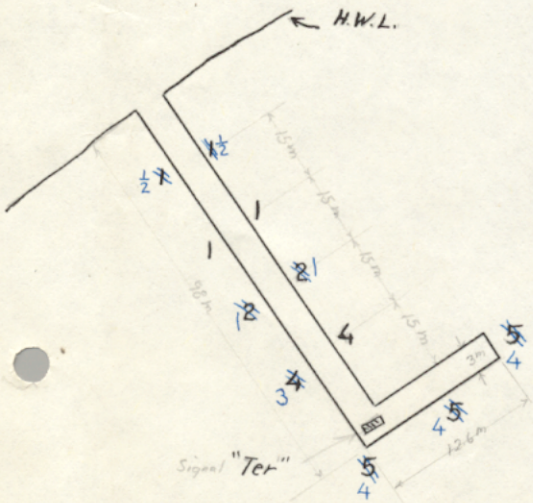
Not to scale

39 06 + 974 m
76 11 + 408 m
Page 28 Vol. 6 Sndg. Records



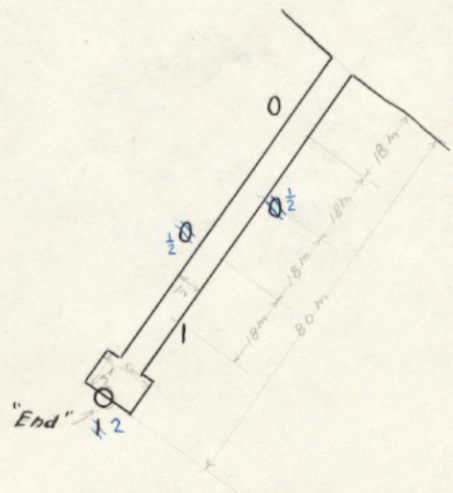
Not to scale

39 06 + 406 m
76 09 + 870 m
Page 27 Vol. 7 Sndg. Records



Not to scale

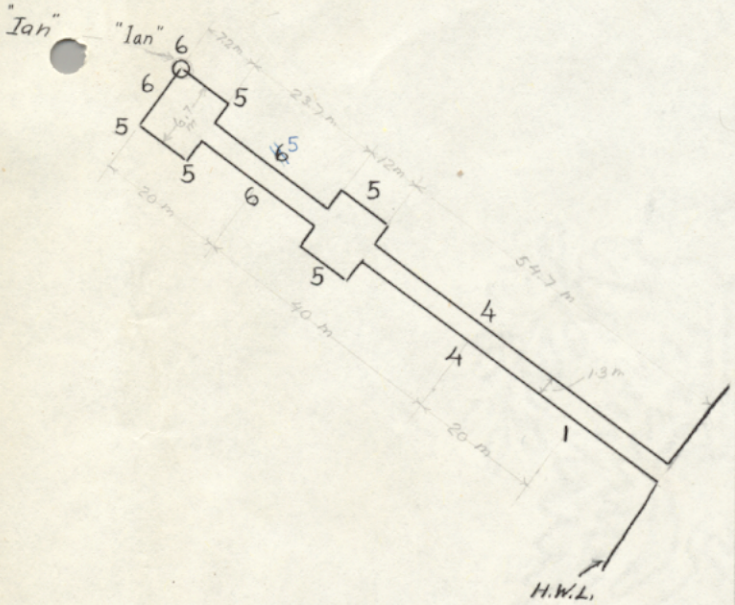
39 07 + 234m
76 07 + 818 m
Page 23 Vol 9 Sndg. Records



Not to scale

39 06 + 1472 m
76 06 + 614 m

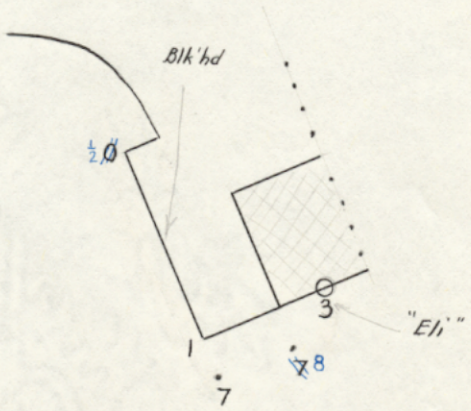
Page 25 Vol. 10 Sndg. Records



Not to scale

39 07 + 1415 m
76 05 + 1160 m

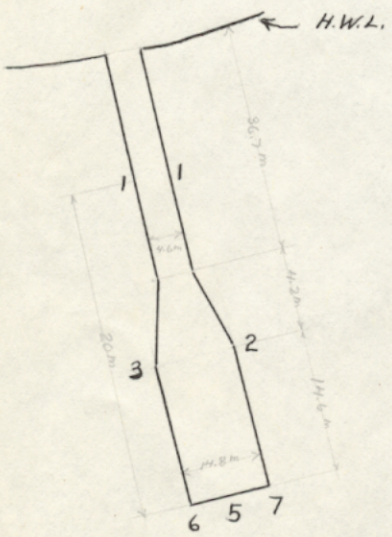
Page 55 Vol. 10 Sndg. Records



Not to scale

39 07 + 1397 m.
76 05 + 1209 m

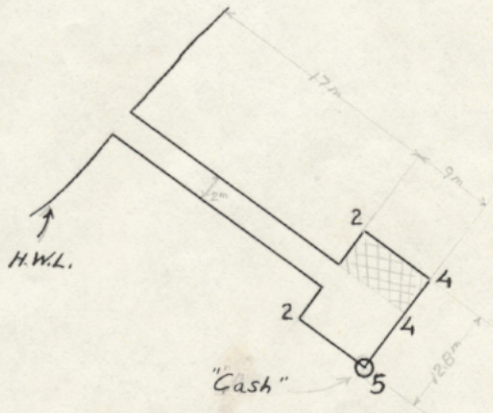
Page 30 Vol. 10 Sndg. Records



Not to Scale

39 05 598 m
76 06 684 m

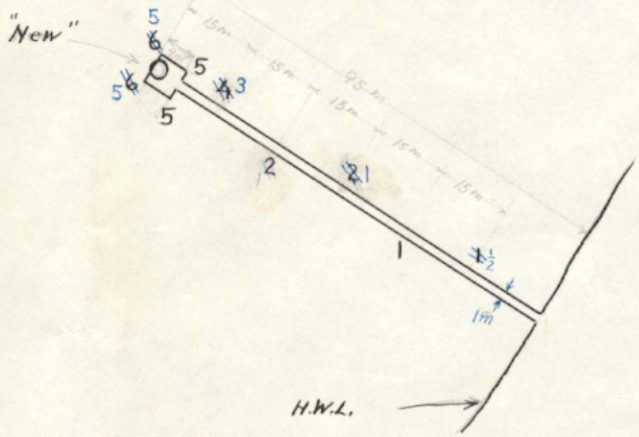
Page 48 Vol. 11 Sndg. Records



Not to scale

39 04 + 1150 m
76 06 + 1256 m

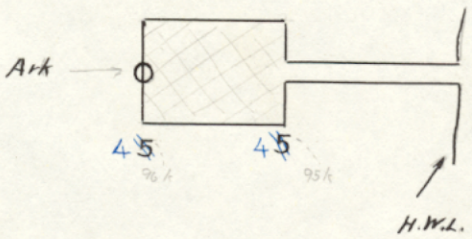
Page 63 Vol. 5 Sndg. Records



Not to scale

39 04 + 163 m
76 05 + 165 m

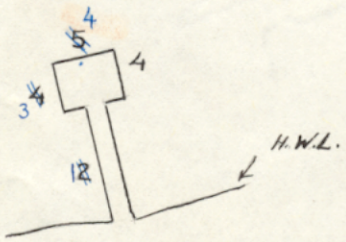
Page 7 Vol. 6 Sndg. Records



Not to scale

39 04 + 837 m
76 07 + 139 m

Page 61 Vol. 5 Sndg. Records

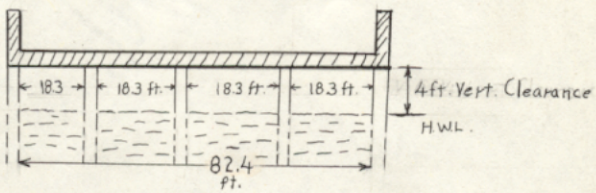


Not to scale

39 03 + 330 m
76 04 + 780 m

Details of Bridge

Centerville Landing



Not to scale

STATISTICS H6600

Date	Day	Statute Miles	Soundings	Positions
Aug. 5	a	19.4	729	125
6	b	18.4	795	136
7	c	18.5	652	151
8	d	17.9	603	135
9	e	22.4	808	160
12	f	22.1	815	162
13	g	25.1	850	162
14	h	19.6	687	153
15	j	13.5	526	131
16	k	17.0	697	153
19	l	16.6	632	163
20	m	22.5	744	166
21	n	14.1	504	121
22	p	19.3	658	149
23	q	21.7	666	176
24	r	20.1	690	160
26	s	24.0	767	142
27	t	11.4	381	79
28	u	15.6	588	121
29	v	19.6	615	123
30	w	15.5	514	121
Sept.3	x	16.1	565	133
4	y	14.5	598	140
5	z	16.9	627	154
6	a'	4.3	141	36
9	b'	16.7	624	154
10	c'	18.4	633	157
11	d'	11.6	392	100
12	e'	17.5	609	166
13	f'	7.0	270	75
		517.3	18380	4104

XQE
HRE

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

Aug. 29, 1941

~~Director of Hydrography and Topography~~

Division of Charts: Attention: Mr. H. R. Edmonston

Plane of reference approved in
12 volumes of sounding records for

HYDROGRAPHIC SHEET 6600

Locality Chester River, Grays Inn Creek, Chesapeake Bay

Chief of Party: F. L. Gallen in 1940
Plane of reference is mean low water reading
1.7 ft. on tide staff at Shipyard Creek Landing
4.4 ft. below B. M. 1
2.4 ft. on T. S. at Cliff Point
5.1 ft. below B. M. 1
2.4 ft. on T. S. at Centerville Landing
11.8 ft. below B. M. 1

Height of mean high water above plane of reference is 1.5 ft. at Shipyard Creek Landing and Cliff Point; 1.6 ft. at Centerville Landing.

Condition of records satisfactory except as noted below:

Paul A. Whitney

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 154327

GEOGRAPHIC NAMES

Survey No. H6600 #1

Name on Survey	On Chart No. A,	On previous survey No. B,	On U. S. quadrangle Maps C,	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Chesapeake Bay										1
Chester R. ✓										2
Gum Pt.										3
Spring Pt.										4
Lucy Cove										5
Goose Cove										6
Browns Pt.										7
Grays Inn Cr ✓										8
Herringtown Cr. ✓										9
Grays Inn Pt.										10
Deep Cove										11
Long Cove										12
Lawyers Cove										13
Drum Pt.										14
Davis Cr.										15
Langford Cr. ✓										16
West Fork ✓										17
Island Pt.										18
Cacaway I.										19
East Fork ✓										20
Nichols Pt.										21
Quaker Neck										22
Cliffs Bight										23
Cliffs Pt.										24
Comegys Bight ✓										25
Comegys Cr.										26
Deep Pt.										27

M 234

	Remarks	Decisions
1	For title	U.S.G.B
2	" "	390762
3		"
4	p. 2 of report.	"
5		"
6		"
7		391762
8	p. 1 of report.	390762
9		391762
10		390761
11		"
12		391761
13		"
14		"
15		391761
16	p. 1 of report	390761 U.S.G.B
17	p. 1 of report	391761
18	W. side West Fork, Langford Cr.	391761
19		391761 U.S.G.B
20	p. 1. of report.	391761
21		390761
22		391761
23		"
24	One tide staff here	" U.S.G.B
25	p. 1 of report.	391761
26		"
27		"

M 234

GEOGRAPHIC NAMES

Survey No. H6600

#2

Name on Survey	On Chart No. A,	On previous survey No. B,	On U. S. quadrangle Maps C,	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Shippen Cr.										1
White Cove										2
Oyster Cove										3
Ashland Landing										4
Spaniard Pt. ✓										5
Spaniard Neck										6
Corsica R. ✓										7
Holton Pt.										8
Ship Pt. ✓										9
Tilghman Cove										10
Wash Pt.										11
Jacobs Nose ✓										12
Alder Br.										13
Emory Cr.										14
Centerville Landing ✓										15
Browns Cove										16
										17
										18
Shipyard Landing										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved by L. Heck on 6/29/42

M 234

	Remarks	Decisions
1		391761
2		"
3		"
4		391760
5		390761 U.S.G.B.
6		"
7	p. 1/2 of report.	"
8		" U.S.G.B.
9	p. 3 of report.	390761
10		"
11		"
12	p. 2 of report	390760
13		"
14		390761 U.S.G.B.
15	p. 2 of report: one tide staff here	390760
16	south of Browns Pt (#1, line 3), Grays Inn Cr.	391762
17		
18		
19	Location of one tide staff: not on sheet.	391761
20		
21		
22		
23		
24		
25		
26		
27		

M 234

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6600

Records accompanying survey:

Boat sheets 1.; sounding vols. 12.; wire drag vols. ....;

bomb vols. .....; graphic recorder rolls .....;

special reports, etc. (7) Form #524

.....

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

Number of positions on sheet		4104
Number of positions checked		151
Number of positions revised		9
Number of soundings recorded		18,380
Number of soundings revised (refers to depth only)		12
Number of soundings erroneously spaced		25
Number of signals erroneously plotted or transferred		.....
Topographic details	Time	46 hrs.
Junctions	Time	20 hrs.
Verification of soundings from graphic record	Time	0

Verification by John K. Hartsock. Total time 365. Date 3/9/44.

Review by J.A. McCormick..... Time 24 hr. Date 3/16/44.

FORM M-238

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H H6600
~~No. H~~

received Aug. 27, 1941
registered Aug. 27, 1941
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	✓	HH	Pages 2 and 3
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed

✓ JBOR

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY REGISTRY NO. 6600

Field No. 1004

Maryland; Chesapeake Bay; Chester River and Corsica River
Surveyed in August 1940; Scale 1:10,000
Project H. T. 250

Soundings: Control:

Hand lead Three-point fix on shore signals

Chief of Party - F. L. Gallen
Surveyed by - R. A. Gillmore
Protracted by - Norfolk Processing Office
Soundings plotted by - Norfolk Processing Office
Verified and inked by - J. K. Hartsock
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, March 17, 1944

1. Shoreline and Signals

The subject is covered in sufficient detail in the descriptive report.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Adjoining Surveys

Satisfactory junctions were effected with H-6599 (1940) on the south and with H-6601 (1940) on the north.

5. Previous Surveys

a. H-174 (1846), 1:20,000; H-1078 (1878), 1:10,000

These old surveys were not rigidly controlled and their agreement with the present survey consequently is only fair. Cross channel lines exaggerate the distance from shore of the shoaler depths. Northeast of Lat. 39°06', Long. 76°07', H-174 (1846) was the latest survey previous to 1940.

b. H-2375 (1898), 1:20,000; H-2376 (1898), 1:10,000; H-2377 (1898), 1:10,000

Combining to cover the greater part of the subject area, these surveys agree quite well with the present work. Differences seldom exceed one foot and the area seems to be remarkably stable. Even the buoys on the old surveys check reasonably well with those on the present survey. Several differences of 6 or more feet were found to be due to questionable soundings in the old records. Possibilities of misinterpreting trends of the depth curves were demonstrated in Lat. 39°04.9', Long. 76°06.9' where H-2377 shows the 12-ft. curve extended 200 meters to include a 13-ft. sounding on a line close to shore. The present survey shows the 13 inclosed by a detached curve and depths of 6 and 7 feet separating it 100 meters from the main curve. The old surveys have no further charting value and can be superseded.

6. Comparison with Chart 548 (Print of Feb. 13, 1943) Chart 549 (Print of Nov. 5, 1943)

a. Hydrography

Both charts were recompiled from the unverified smooth sheet. The reviewed survey changes the picture very little and only a few minor revisions are necessary. Principal change recommended is the addition of a 10-ft. sounding in Lat. 39°07.45', Long. 76°10.10'.

b. Navigational Aids

Survey positions of floating aids check the positions charted. Light "23" in Lat. 39°06.6', Long. 76°07' and range lights in Lat. 39°05.7', Long. 76°09' were established subsequent to the survey (C. G. N. to M. 40 and 44 of 1941).

7. Compliance with Project Instructions

Excellent.

8. Additional Field Work Recommended

None.

Examined and approved:

Robert W. King
Chief, Surveys Branch

J. S. Borden
Chief, Division of Charts

Earl O. Heaton
Chief, Section of Hydrography

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Chief, Division of
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1:40,000

Unverified smooth sheet applied to drawing of Ch. 549 5/29/42 JTW
" " " " " reconstructed " 548 5/30/42 JTW
Tracing on acetate made of material used

Applied to Chart 548 after review 6/28/44 - JTW
" " " 549 " " 2-22-45 J.M.A. via 548
Examined for " 1226 " " 2-26-45 J.M.A.