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C. & G. SURVEY,
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Diagram No. 78-2 & 1222-2

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State *Virginia*

DESCRIPTIVE REPORT.

Hughes Sheet No. *3310*

LOCALITY:

*Hughes River - Inlet Pt. to
Clay Banks*

1901

CHIEF OF PARTY:

O. H. Ferguson

3310

Notes:

Sounding on line 47 a to 64a inclusions are apparently in error and are rejected by direction of the Chief Draftsman. Compared with the lines immediately North and South and the lines crossing between the stations noted the apparent error is about 3 fathoms between these two stations and would appear to be due to reading the lead line.

J. O. T.

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DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETIC SURVEY.

O. H. TITTMANN, Superintendent.

Resurvey of the Chesapeake Bay, Virginia.

Revision of the York River.

DESCRIPTIVE REPORT.

Hydrographic Sheet No. ³³¹⁰ ~~XX~~. (685 and more)

between

Latitude 37° 12' 00" to 37° 21' 00" N.

Longitude 76° 23' 00" to 76° 38' 00" W.

SCALE 1:20000.

From May 13th. to December 5, 1911.

SCHOONER "MATCHLESS".

O. W. Ferguson, Assistant, C. & G. G., In Command.

OBSERVERS.

O. W. Ferguson, Assistant; James E. Marsh, Mate;

F. F. Harbour, Aid; John W. Clift, Chief Writer.

RECORDER.

H. W. Godsey, Writer 2d. class.

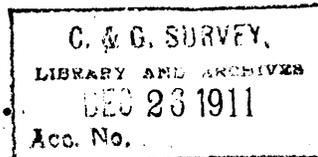
LEADSMEN.

S. L. Jackson; F. Hesper, S. M. M.; H. C. Tong, S. M. M.

TIDE OBSERVERS.

O. W. Ferguson, Assistant,

W. W. Crittenden, Sea.



3310

C. & G. SURVEY
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DEC 23 1911
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DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETIC SURVEY.

O. H. TITTMANN, Superintendent.

Resurvey of the Chesapeake Bay, Virginia.

Revision of the York River.

TITLE SHEET.

Hydrographic Sheet No. ³³¹⁰ ~~X~~ = 68521104

between

Latitude 37° 12' 00" to 37° 21' 00" N.

Longitude 76° 23' 00" to 76° 38' 00" W.

SCALE 1:20000.

From May 13th. to December 5, 1911.

SCHOONER "MATCHLESS".

O. W. Ferguson, Assistant, C. & G. S., In Command.

OBSERVERS.

O. W. Ferguson, Assistant; James E. Marsh, Mate;

F. F. Harbour, Aid; John W. Clift, Chief Writer.

RECORDER.

H. W. Godsey, Writer 2d. class.

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S. L. Jackson; F. Hesper, S. M. M.; H. C. Tong, S. M. M.

TIDE OBSERVERS.

O. W. Ferguson, Assistant,

W. W. Crittenden, Seaman.

Desc. Rept. Hydrog. Sheet A. O.S. (685) York River, Va. O.W.F.

Control.

The control of the Hydrography is ample being of a newly executed scheme of Triangulation and Tertiary points

Computed and plotted.

Methods.

By taking advantage of the high tides over the shallow flats a good development was made from the Launch; But at other times the Whaleboat was used on Bars in Creeks and Rivers.

Weather.

During the months of April and May Stiff Easterly winds prevailed.

Between Yorktown and Gloucester Point the River is barely a half mile wide, with a deep channel and good water on either side, but above and below this it is from 1.5 to 2.4 miles wide, with each shore guarded by shallow and muddy flats, covered at high and bare or shallow at low water.

There is a good deal of silting *up of* marshes and creek banks, but the general depth is well maintained.

Current.

The currents are strong, over this river, being 1 3/4 knots per hour; the wetted area above with the Mattaponi and Pamunkey is very large.

In front of Yorktown and for two miles below there is bold water from 40 to 80 feet over an approximate area of two square miles.

(3)

Desc. Rept. Hydrog. Sheet A. O.S.(685) York River, Va.O.W.F.

Landings.

The landings on this sheet are Yorktown, Gloucester Point, Clements and Claybank. Also the cement company have constructed a new and large wharf for accommodation of the proposed large cement works just below Yorktown.

Anchorage.

Gloucester Point side furnishes the best anchorage and best protection, but there is excellent anchorage and deeper water on Yorktown side, but more exposed.

Rivers And Creeks.

The Creeks that enter on this sheet on the North side, are, Sedges, Sarah, Timber Neck, Poplar, Cedarbush, Carters, and Aberdeen; all small, Sedges being the largest furnishing, a depth of 5 to 6 feet.

On the South, Back Creek, Sandbox, Wormleys, Indian Field, Kings, and Queens. Back Creek is a thoroughfare to the Poquosin ~~River~~ furnishing 2 feet at low water, 4 and 5 at high water at the mouth, and 6 to 7 feet thereafter.

Wormleys Creek furnishes 4 feet on the Bar at low water and 8 to 10 feet on into Sawmill Wharf. Small craft freight wood and lumber out of this creek.

A Bohemian Town is building up near its banks.

Sandbox, Indian Field and Kings are small excepting Sandbox which furnishes 7 feet; ^{oyster} only used by small gasoline boats.

(4)

Desc. Rept. Hydrog. Sheet. A.O.S. (685) York River, Va. O.W.F.
Creeks And Rivers.

Queens Creek is the longest and furnishes 3 feet at its mouth at low water, and 5 feet thence to the Bridge, 5 miles above where there is a small port 1 1/2 miles from Williams^sberg.

Water.

This whole country is supplied with Artesian water, sometimes securing a large flow and sometimes a small flow.

On Beckett's Modern Farm just above Queens Creek there is a large flow.

Craft And Commerce.

Up or down this river every day goes a commodious Steamer plying between Baltimore and West Point, also a small Steamer running to Old Point; Norfolk and Newport News, the latter was put on this year and will be continued. Other Craft are Schooners and Barges, small freighters and Oyster boats.

Commodities Shipped.

Grain, garden truck, Potatoes, Tomatoes, Cabbage, Tobacco, Poultry, Fish and Oysters. And in the lumber line Wood, Ties, Lumber, Mine Props, and Telegraph Poles.

(5)

Desc. Rept. Hydrog. Sheet A.O.S. (685) York River, Va. O.W.F.

Channel.

The channel is plain and well marked with good depths affording from 40 feet 1/2 mile off Tue Point Light House, to 21 feet off Claybank Wharf.

Navigation.

Follow the day marks and lights at night. There are the Tue Point Light House, A post light at Gloucester Point wharf, Yorktown, Clements, Page Rock Light House, and Claybank Post Light.

O. W. Ferguson.
Assistant-
C. & G. S.

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A

LIST OF OBJECTS LOCATED ON HYDROGRAPHIC SHEET No. 685,

YORK RIVER, VIRGINIA.

NAMES	LATITUDE D. M.			LONGITUDE D. P.		
Chy. Of Lg. Ho. on Guinea Mhs. (How) by Sextant	37	16	117.0	76	22	739.0
N. Gable of Shanty on Tue's Marshes (Roof) Sextant	37	13	922.0	76	23	68.0
Tue (Point)	37	13	1364.1	76	23	266.0
Tue Point Lt. Ho. (Tue)	37	14	246.0	76	23	242.8
Sandy	37	15	1104.6	76	23	1095.5
Sand Box (Box)	37	13	728.7	76	25	346.7
Ellen	37	15	472.4	76	25	855.0
Cedar	37	13	173.6	76	27	595.8
Gaines (Gain)	37	14	1825.6	76	27	1206.4
Iager	37	13	765.7	76	29	340.8
Iron Stack of Saw Mill (Stack)	37	12	1794.0	76	28	12.0
Quarter 2 (Quart)	37	15	44.5	76	28	936.5
Moor	37	14	1831.0	76	28	866.0
SE. Cor. Of Bank Building at Gloucester Point (Bank)	37	14	1631.0	76	30	205.0
Post Lt. at Glo. Pt. (Light)	37	14	1331.0	76	30	384.0
Monument at Yorktown (Mon)	37	14	7.0	76	30	464.4
Yorktown '06	37	14	638.9	76	30	869.3
York '11	37	14	661.6	76	30	857.0
Fort	37	14	1790.2	76	30	244.3
Stony Point 2 (Stony)	37	14	1665.7	76	31	1303.7
Mum	37	15	1559.6	76	30	1161.1
Sandy Point 2 (Sand)	37	16	142.1	76	33	125.9

3310

O. W. F.

STATISTICS SHEET No. 685

DATE	Vol.	Letter	Soundings	Positions	Statute Miles	Vessel.
May 13	1	a	588	83	15.50	Launch
15	1	b	792	122	21.60	
16	1	c	609	95	17.50	
16	2	d	150	26	4.00	
17	2	d	668	102	18.50	
18	2	e	658	114	17.25	
19	3	f	800	119	19.75	
20	3	g	481	76	11.85	
22	3	h	867	135	20.50	
Sept. 26	4	i	303	60	12.05	
	4	9	5916	932	158.50	
Dec. 5	4	k	77	42	6.10	
	4	10	5993	979	164.60	

O. W. F.

VEC
Jan. 26, 1912.

HYDROGRAPHIC SHEET 3310.

S&E
1/27/12

Tue Point to Claybank, York River, Virginia, by
Asst. O. W. Ferguson in 1911.

TIDES.

	Gloucester Pt. ft.	Claybank ft.
Mean low water, or plane of reference on staff	2.7	1.7
Lowest tide observed " "	1.9	1.5
Highest " " " "	6.9	5.3
Mean range of tide	2.4	2.8

Coast and Geodetic Survey
JAN 27 1912
TIDAL DIVISION

Hyd. Sheet # 3310.

The positions on this sheet, except line 1e to 9e, were plotted by field party, and have been taken as correct although checked in many cases where errors were assumed.

The soundings, except line 1e to 9e were also plotted in the field, but not inked; these however were not ^{accepted} taken as correct as in many cases it was found that more soundings were plotted between positions than shown to have been taken by sounding books. The time spacings were also ^{throughout} bad, and showed evidence of having been spaced by the eye instead of dividers. Also in nearly all cases decimals of .5 and upwards were plotted as the next larger foot. All soundings have therefore been replotted.

The work is generally good and the crossings go close except in the case of line 47a to 64a, which is left in pencil. This line would appear to be in error of about 3 fathoms as compared with the lines immediately north and south and the lines crossing between these two positions, and might be due to reading the lead line. These soundings are repeated by direction of the Chief Draftsman.

J. D. Torrey.
4/16/12