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Diag. Chart No. 77-2

C. & G. SURVEY,
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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. H. Tittmann
Superintendent.

State: *Va.*

DESCRIPTIVE REPORT.

Hydrographic Sheet No. *3036*

LOCALITY:
*Rappahannock River, Millbank
Creek to Skinners Creek*

14,000
1909

CHIEF OF PARTY:
O. W. Ferguson

3036

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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 Rappahannock River.

TITLE SHEET.

Descriptive Report of Topographic & Hydrographic

^{Hyd. 3036}
Sheet ~~515~~, Register Number.

Western Shore Chesapeake Bay, between

Latitude 38 11 00 to 38 15 25

Longitude 77 12 18 to 77 16 18.

SCALE 1:10000.

From October 28, 1909 to November 11, 1909.

SCHOONER "MATCHLESS".

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

OBSERVERS.

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

E. E. Smith, Aid; John W. Clift, Chief Writer.

RECORDERS.

John W. Clift, Chief Writer; H. W. Godsey, W. 2.

LEADSMEN.

M. L. Tabor, S. M. M.; W. W. Holland, Q. M. 3cl.

TIDE OBSERVERS.

N. E. Lusby, Seaman.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

Department of Commerce and Labor

COAST AND GEODETIC SURVEY

SCHOONER "MATCHLESS",

FREDERICKSBURG, VA., 12/17 /1909.

DESCRIPTIVE REPORT OF THE TOPOGRAPHIC AND HYDROGRAPHIC

SHEET 515, REGISTER NUMBER.

CONTROL.

The river over this sheet is quite narrow all the way and the topography in large measure is quite permanent. Some flag signals were located by sextant cuts ^{and plane table} at the lower part of the sheet.

Some new work on topography was done, but not very much, because there was nothing requiring it. There are fewer buildings and more neglected environment than the old sheet indicates.

Old topographic points recovered were:

- (1) Lewis' Dwelling House: "Cleve Mansion".
- (2) Old House at Hopyard.
- (3) Old Wharf at Lagrange Turn.

The above considerations furnished sufficient data to locate the Hydrography, etc.

All new houses and wharves in sight from the shore have been located and the old features not now in existence left off.

Thorough examination was made of all points specified as requiring such attention.

At two places of about 1/2 mile each where the U.S. Eng'rs.

have recently made surveys no soundings were made, only on the continuous channel line. Cross lines were run on an average about every 200metres.

The width of the river on this sheet varies from 105 ms. to 465ms. It is very crooked from beginning to end in a straight line being 9000ms. but by way of channel 19500 ms.

SURFACE.

The surface is varigated; the banks rise from 2 to 60 feet. The soil is clay and silt rather light and washes a good deal making many ravines and sloughs and swamps. A good portion of the country is covered with brush and small timber.

TOWNS.

There are no towns on this sheet. There is one Post Office at Lewis' or Cleve, and near Radcliff.

The Landings are Haymount,

Hop Yard,

Radcliffs, on signal.

There is not very much shipping from these wharves. The farmers ship their grain generally on small private vessels or barges. The boat is tied along shore and is filled by a chute that runs from her hold to the top of bank.

OCCUPTION.

A little lumbering and a little fishing is engaged in but farming, grain and stock raising in the principal occupation. The soil is quite productive and land fairly well occupied. Some produce finds its way to the railroad and to the potomac River.

PRODUCTS.

The products are corn, wheat, potatoes and tobacco, poultry, cattle and sheep.

Hyd 3036

STATISTICS Sheet No. 513.

DATE 1909.	Letter	Vols.	Positions	Soundings	Miles Statute	Vessel.
October 28	a	1	54	196	4.5	Whale-boat
29	b	1	35	178	4.0	
November 3	c	1	77	313	6.3	
4	d	1	53	225	3.5	
Total	4	1	219	912	18.3	

November 4	a	1	13	120	3.3	Steam
10	b	1	21	125	7.1	Launch
11	c	1	10	65	2.0	
Total	3	1	44	310	12.4	

RECAPITULATION

Whaleboat	4	1	219	912	18.3	
Steam Launch	3	1	44	310	12.4	
Grand Total	7	2	263	1222	30.7	

LIST OF PLANE TABLE POINTS FROM OLD & NEW TOPOGRAPHY FURNISHING THE CONTROL OF WORK ON SHEET NUMBER 513.

Point	<u>EAST BANK</u> Latitude	Longitude	Point Located by
BEN Flag in water			Sextant & P.T.
WAR Flag on ft. of lit. Old Wh.			Old Topy.
OUT Flag in water			Sextant & P.T.
DER Flag in water			" "
ARM Engineers flag			" "
TREE Flag in tree			" "
END Flag S. End Lewis Wh.			" "
LEW Lewis Home: "Cleve" Old House at Hopyard			Old Topy. " "
	WEST BANK		
UN			Sextant & P.T.
MAT			" "
HAL			" "
WET			" "
SAND All flags in water			" "
End of whf. at Mt. Swamp			Old Topy.
End of Haymount wharf			" "
Old Wharf at Lagrange			
Turn			Old Topy.

The Latitude and Longitude of these places can be taken when the Meridians and Parallels are drawn on the sheets.

V.E.C.
Jan.6,1910.

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HYDROGRAPHIC SHEET NO. 3036.

Rappahannock River, Virginia.

Latitude 38°11'00" to 38°15'25"

Longitude 77°12'18" to 77°16'18"

By Asst. O. W. Ferguson in 1909.

TIDES.

	Port Royal ft.
Mean low water, or plane of reference on staff	3.3
Lowest tide observed " "	-1.0
Highest " " " "	9.0
Mean range of tide	1.9

Department of Commerce and Labor

Statistics for Hyd. Sheet. No. 3036

Date	Letter	Volume	Positions	Soundings	Miles	Vessel
Oct. 28 th 1909	a	1	53	196	4.5	Whale boat.
" 29 th "	b	1	35	178	4.0	"
Nov. 3, "	c	1	77	313	6.3	"
" 4, "	d	1	53	225	3.5	"
" 4, "	a	2	13	120	3.3	Steam Launch
" 10, "	b	2	21	125	7.1	" "
" 11, "	c	2	10	65	2.0	" "
Totals		2	262	1222	30.7	Totals

Soundings plotted in feet.

Soundings plotted & inked by R. L. Johnston.

Hyd. Sheet 3036

Although the crossings are generally good on this sheet, the work is not very reliable owing to poor control.

With four or five exceptions, no positions have been located by sextant angles, neither have they been described sufficiently to definitely locate them. For this reason, the position of lines as furnished by field party had to be accepted, although in some cases they differ from the boat sheet, as in the case of 13 to 14 blue a day.

The signals "Don" and "End" do not appear on the sheet, but ^{the} signal shown as "Sand" is probably "Don" as it will protract for it.

There is no projection on this sheet.

R. L. Johnston
Draftsman
7/26/10.