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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. 3030

LOCALITY:

*Rappahannock River,
Ledstown to Greenlaws
wharf. Hyde & Topc.*

1909

CHIEF OF PARTY:

O. W. Ferguson

3030

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

³⁰³⁰
Sheet 515, Register Number.

Western Shore Chesapeake Bay, between

Latitude 38° 05' to 38° 10' N.

Longitude 76° 59' to 76° 05' 20" W.

SCALE 1:10000.

From October 8, 1909 to October 23, 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, C. W.

LEADSMEN.

M. L. Tabor, S. M. M.; A. C. Pinder, Seaman.

TIDE OBSERVERS.

N. E. Lusby, Seaman; A. L. Williams, S. C.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

Department of Commerce and Labor

COAST AND GEODETIC SURVEY

SCHOONER "MATCHLESS",

FREDERICKSBURG, VA., 12/8/1909.

DESCRIPTIVE REPORT OF THE TOPOGRAPHIC AND HYDROGRAPHIC

³⁰³⁰
SHEET #15 REGISTER NUMBER.

CONTROL.

No old stations were recovered on this sheet, but a number of the objects shown on old topographic sheet were found, thus on the East bank.

1. The positions of old wharves at Leadstown were identified, though the topography here is placed about 40^m farther down the river than the old.

2. The old house called Liberty Home on hill opposite Mount Pleasant owned by Charles Haynes standing. = *o Rub.*

3. The house 97ms. NNW. from the position of Old Station Th: Goulman was found. = *o Man.*

4. The house 177ms. NW.X N. from the position of Old Station Goulding was found.

And on the West side.

1. The old Brook farm house, a mile below Saunders Wharf, though rebuilt on old site. = *o Chim*

2. The location of the Old Baylor home on Marlbank 1/2 mile below Port Micou. The house had been burnt but the chimneys were still standing. = *o Old.*

3. The wharf house at Saunders Landing and the pier; also the residence called "Wheatland", 180^m S.W., were recovered.

The Wharf house = o Saunders.

2.

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Desc.Rept. T. & H, Sheet 515, G.W.F. 10/20/1909.

3. At Port Micou one house shown on old sheet was standing. = *o Cou.*

The topography has changed but little and but few artificial features ^{have been} added. All new houses and wharves have been located and the old features not now in existence have been left off the tracing.

HYDROGRAPHY.

From the topographic features identified sounding lines were run on range and bearing, the location being often made by cadence soundings, time from shore to shore. A few angles were taken in the wider places. These cross lines will average about 500ms. apart; a channel line was also run. The narrowest point on this stretch is at Horsehead Point where the width is only 195ms. and the widest is at Green Bay, 1555ms.

There are no towns on this sheet but Leedstown, which is a small place. The other landings on the east side are Wilmont and Greenlaws; And on the west side Saunders and Port Micou (not now used).

SURFACE.

The ground is quite level, but cut up by sloughs and swampy places. Its elevation is from one to 30 feet above Mean tide excepting for two miles along horseshoe bend where it rises to over 100 feet. The points at the bends in the river are generally all made up of swampy land.

OCCUPATION.

There is considerable work in timber from time to time at different points, wood, ties and sawed lumber are shipped from Leedstown and from Port Micou.

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3. Desc. Rpt. T. H. Sheet 515, O.W.F. 10/20/1909.

At Wilmont Landing the Vulcan Fire Brick plant is established, quite large Pressed brick works, from where are shipped boat loads of Fire Brick, Paving Brick and Roofing Tile.

Fishing is pursued by a number of people, the fish being shipped to Baltimore or to Fredericksburg.

But farming is the principal occupation of the people, nearly all of the land is occupied and made to produce moderately, but in general is neither thoroughly nor carefully worked.

Mail facilities are good.

There are small schools for a few months in the year scattered most everywhere, but many families that can afford it, employ a young woman to come and live with them and teach their children.

PRODUCTS.

The products shipped are Corn, wheat, poultry, some cattle and sheep. It is a pretty good region for apples and peaches also, and some are shipped. A good deal of lambs is shipped out as before stated.

LIST OF PLANE TABLE POINTS FROM OLD & NEW TOPOGRAPHY SURVEYING THE CONTROL OF WORK ON SHEET NUMBER 515. 3020

Positions as given by the lines on old sheet, to agree with printed chart add 04" to Latitude and 18" to Longitude.
O.W.F.

Point	Latitude			Longitude			Point
	°	'	m	°	'	m	Located by
CULT Center of house	38	05	63	77	00	632	New Top'y.
CHIM Center of house	38	05	635	77	00	1156	Old "
SAN Center Whf. Ho. Saunders L.	38	05	723	77	01	1040	New "
HUNT Ex. W. Pt. Hunter Marsh	38	06	779	76	59	1330	Old "
South Center Leaddtown Wf.	38	06	1136	76	59	965	New "
LEADS Center of end of Lumber Pr.	38	06	1136	76	59	1010	" "
Center of Baxters Store	38	06	1191	76	59	1108	" "
OLD Old chimney of ruins	38	06	1524	77	03	260	Old "
RUB Chimney of Liberty Hall	38	06	2558	77	02	34	" "
COU Chimney of house at Port Micou	38	07	533	77	03	26	" "
GOUL S. Pt. W. Side of	38	07	1021	77	02	862	" "
MAN Chimney of house	38	07	1190	77	02	885	" "
LEE Center of end Leesville Wf.	38	07	1816	77	02	1015	New "
DID Tree at mouth North Point; East side	38	08	256	77	04	53	Old "

LIST OF PLANE TABLE POINTS FROM OLD & NEW TOPOGRAPHY FURNISHING THE CONTROL OF WORK ON SHEET NUMBER 515. 200 200

Point	Latitude	Longitude	Point Located by
NEED Tree N. Pt. of Creek: West side	38° 08' 370 ^m	77° 04' 268 ^m	Old Top'y.
SAW Center of end of Sawmill Wharf	38 08 1200	77 02 1123	New "
CAN Tree at extreme end of Point on East side of Green Bay	38 08 1284	77 04 108	Old "
SHAN Small house under side of hill	38 09 186	77 04 659	New "
VUL SE. End of Wilmont wharf	38 09 497	77 03 1427	" "
LAW Center of end of Greenlaws wharf	38 09 1105	77 04 1088	" "
GAB Center of end of Wharf House at old unused (Greenlaws Landing) Steamboat wharf.	38 09 1248	77 05 487	" "

Hyd Sheet 3030

The crossings on this sheet were poor in several places, but as numerous adjustments were made, they appear much better on the finished sheet.

Although a number of positions are located by sextant angles, some important lines have no control, as the channel line from 26c to 40c.

In some places the cross lines are very long and at least one intermediate position should have been established. Spacing soundings by time on such long stretches, is not accurate, as the speed is often varied.

For example on one line, the time from bank to bank was 17 minutes, yet after $12\frac{1}{3}$ minutes had elapsed, the boat had just reached the middle of the river covering the remaining half in $4\frac{2}{3}$ minutes.

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STATISTICS Sheet No. 515. ³⁰³⁰

DATE 1909.	Letter	Vols.	Positions	Soundings	Miles Statute	Vessel.
October 11.	a a	1	6	79	1.7	Whaleboat
12	b b	1	53	421	9.5	Launch used at times.
13	c c	1	50	602	16.5	Launch used at times.
15	d d	1	13	192	4.2	ON ORIGINAL DOCUMENT
21	e e	1	29	164	2.1	
22	f f	1	67	391	8.8	
23	g g	2	19	200	4.5	4.5
Total	7	2	237	2049	47.3	

Soundings plotted in feet.

Protracted by Field Party.

*Soundings plotted & inked by R. L. Johnston.
" verified by curves run & inked by J. D. Torrey 12/11*

W. E. C.
Jan. 3, 1910.

HYDROGRAPHIC SHEET NO. 3030.

Leedstown to Marsh Point, Tappahannock River,
Virginia by Asst. O. W. Ferguson in 1909.

TIDES.

	Leedstown ft.	Port Royal ft.
Mean low water, or plane of reference on staff	2.6	3.3
Lowest tide observed " "	1.8	-1.0
Highest " " " "	4.7	9.0
Mean range of tide	1.5	1.9

Coast and Geodetic Survey
JAN 7 1910
TIDAL DIVISION.