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Mag. Clk. No. 78-2

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Virginia*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3182*

LOCALITY:

James River

190

CHIEF OF PARTY:

O. W. Ferguson

3182

DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETIC SURVEY.

O. H. TITTMANN, Superintendent.

Resurvey of the Chesapeake Bay, Virginia.

Revision of the James River.

TITLE SHEET.

Topographic & Hydrographic

Sheet 1391⁰⁰, Register Number.

between

Latitude 37 12 00 to 37 16 30 N.

Longitude 76 51 50 to 77 02 20 W.

SCALE 1:20000.

From August 6, 1910 to September 17, 1910.

SCHOONER "MATCHLESS".

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

OBSERVERS.

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

J. George Dobie, Aid; Chas. A. Mourhess, Aid.

RECORDERS.

H. W. Godsey, Writer 2cl.

LEADSMEN.

A. C. Pinder, Q. M. 3cl.,

G. W. Murphy; C. R. Foster, Seamen.

TIDE OBSERVERS.

N. S. Topping; C. P. Holland, C. B. M.;

M. L. Tabor, S. M. M.

SEP 27 1910
U.S. COAST AND GEOD. SURVEY

3182

COAST AND
GEODETIC SURVEY

DEPARTMENT OF COMMERCE AND LABOR.

SEP 27 1910

Assistant in Charge

COAST AND GEODETIC SURVEY.

O. H. TITTMANN, Superintendent.

C. & G. SURVEY,
LIBRARY AND ARCHIVES

SEP 27 1910

AGE 176

Resurvey of the Chesapeake Bay, Virginia.

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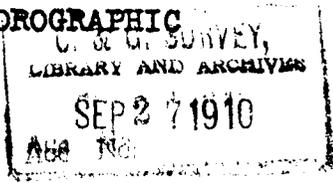
N. S. Topping; C. P. Holland, C. B. M.;

M. L. Taber, S. M. M.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC & HYDROGRAPHIC

SHEET NO. 1377^a, ON VELLUM.

CONTROL.



The control for this sheet is furnished by a good supply of stations located by triangulation just preceding.

The old Monuments recovered are:

- △ Dillard U.S.E. and J. B. Boutelle 1910.
- △ Chickahominy U.S.E. and J. B. Boutelle 1910.
- △ Range, Marked same as a U.S.E. B.M. or △ Station - I have no description of it.

Directly back of △ Row, U.S.E.B.M. Black was recovered.

Near △ Brandon an old U.S.E.B.M. or more probably an older △ Station was recovered.

Near △ Point in center of Sand road an old U.S.E.B.M. or more probably an older △ Station was recovered.

SHORES.

The shores are generally wooded, and the banks on South side rise more generally to a height of 40 to 80 feet.

The shores are sandy with the cypress trees quite numerous, often rendering shore work obstructed.

THE CHANNEL & NAVIGATION.

No marked changes have occurred over this stretch since the last charted survey. The river here affords good navigation for vessels drawing 16 feet. The controlling passage is Sunken Marsh Channel where there is only 16 feet at low water. The range lights about a mile below Claremont Wharf define the channel well but Nun Buoy No. 10 should be moved 200^m farther South.

Pilots for the river to and from Richmond, Norfolk and

Petersburg may be found at Claremont, also tugs ply up and down the river and one, The Malcolm B. Clark, makes Claremont its headquarters.

CURRENTS.

The Tidal Currents are not abated but are quite marked.

ANCHORAGE.

Vessels anchor most anywhere in the river.

LANDINGS.

Claremont Wharf on Sloop Point now is the principle Landing. There are also the following wharves: Burdicks Wharf at the mouth of Chippoak Creek; Brandon Wharf at Brandon and Ritchies Wharf at Brandon Point on the South Bank and Sandy Point Wharf and Reynolds on the North bank.

RIVERS.

The Chickahominy River enters at the lower extremity of this sheet. The channel into the river affords about 12 feet and the vessels navigating it are mostly schooners and barges loading wood, ties and lumber.

WATER.

The water of the Chickahominy is of a light yellow color, but carries but little sediment excepting at times of big rains. It is not brackish only in case of unusual tides. Artesian water is obtained here.

At Brandon, Colonial Mansion, there is a very large flow from a pipe, about 35 gallons a minute but it is 1/4 mile back from the river.

At Lower Trees Point within 70 metres of the shore is an inch and a half stream running 15 gallons a minute.

Desc. Rpt. O. W. F. Sheet ~~1897~~ James River, Va. 3.

At Ritchies Wharf, Brandon Point, there is a pipe that discharges about 12 gallons a minute.

SAILING DIRECTIONS.

At night follow the line of the Range Lights.

TOWNS.

Claremont is the one town, has a population of about 600. It is the terminus of the Southern Narrow Gauge Railroad running from Emporia and through Waverly, on the Norfolk and Western. It has a bank, telegraph, telephone and express service, two churches and several supply stores.

The occupations of the people are principally farming. The lands are usually held in large farms and poorly worked, very many thousand acres are not occupied but are covered by small 2d. growth pine which would prove quite remunerative to the owners were it not for the forest fires which kill off a very large part of the growth and set the rest back from scorching from 2 to 10 years.

The land is light sandy loam with clay subsoil, pretty poor land but very nice to work and by the use of clover, peas, etc., it produces well.

A good number of the people are engaged in lumbering and at Claremont there is a nail keg stave mill that ships about a car load of staves a day.

The products are Corn, wheat, peanuts, Potatoes, peas, poultry, pigs and beefs.

Probably a slight emergence of this area is still going on. In many cut banks even some hundreds of metres from the river as well as along the river, 40 feet above Mean tide

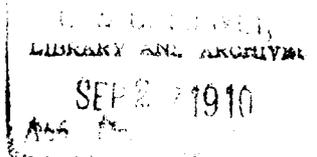
there are great deposits of shells, oyster shells and crynoids and worms in a wonderful good state of preservation; oyster shells as strong as new shells, seemingly. It is useless, though interesting, to contemplate how many ~~an~~ Thousand years since those were deposited, under water; there being then about 40 feet of sand and clay deposited on top of these, all being under water. Then took place an emergence, acting probably, very slowly.

List of positions all by Triangulation.

13 Stations occupied.

11 " Established & built.

7 Old Monuments recovered.



1. DILLARD, U.S.E.& J. B. Boutelle, given.
2. CHICKAHOMINY, J. B. Boutelle, " .
3. \triangle RANGE, is an old U.S.E.B.M. or a \triangle station and not given.
4. Found U.S.E.B.M. Sandy Point: It is 39.575m. and 241 38' 20" to right of \triangle Dancing from Sandy Point 1910, given.
5. Found B.M. Black, about, N.61 E., 69.84m. from \triangle Row, given.
6. Found a Granite Monument at Brandon 1.533m. on line 135 34' 15" to right of \triangle Point from \triangle Brandon.
7. Found a Granite Monument in center of road at Ritchies Wharf (Brandon Point) and 8.563m. on line 258 21' 01" to right of Marsh, from \triangle Point.

List of Geographic Positions Computed.

Object & Description \triangle^s	Latitude	D. M.	Longitude	D. P.
DILLARD	37 ^o 12'	992.4	76 ^o 51'	1253.1
RANGE	37 ^o 12'	1791.4	76 ^o 55'	895.2
SLOOP	37 ^o 13'	1573.4	76 ^o 57'	52.7
DANCING	37 ^o 13'	1818.8	76 ^o 55'	41.7
SANDY POINT	37 ^o 14'	433.8	76 ^o 56'	573.1
BELDING	37 ^o 14'	584.2	76 ^o 58'	442.7
CHICKAHOMINY	37 ^o 14'	953.5	76 ^o 52'	388.2
RUFFIN	37 ^o 14'	1232.5	76 ^o 53'	1433.2
REYNOLDS	37 ^o 14'	1288.0	76 ^o 57'	444.9
BRANDON	37 ^o 15'	736.8	76 ^o 59'	464.1
ROW	37 ^o 15'	1291.1	76 ^o 58'	458.1
POINT	37 ^o 16'	555.8	76 ^o 59'	873.5
POTTERY	37 ^o 16'	1137.2	76 ^o 59'	140.9

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List of Stations Plotted by Distances

From The Computation of Triangles.

Object & Description	Latitude	D. M.	Longitude	D. P.
⊙ Pile	37° 12'	873	76° 53'	1272
Highest Pile above				
△ Dillard	37° 12'	1188	76° 52'	364
W. Gable	37° 12'	1533	76° 55'	648
Range Light	37° 13'	151	76° 56'	000
Nun Buoy # 10	37° 13'	351	76° 54'	945
△ Clare	37° 13'	838	76° 56'	786
⊙ Red Stack	37° 13'	1323	76° 56'	1315
Store Chimney at				
Sandy Point	37° 14'	959	76° 56'	1280
South Gable at				
Reynolds Wharf	37° 14'	1218	76° 57'	132
Chimney above				
△ Chickahominy	37° 14'	1648	76° 52'	511
B. M. Black at				
△ Row	37° 15'	1329	76° 58'	378
Lower Pile at				
Lower Trees Point	37° 16'	823	76° 59'	185

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C. & G. SURVEY,
LIBRARY AND ARCHIVES
SEP 27 1910
Abb No.

Statistics sheet No. 1391⁰

Date, 1910.	Letter	Vol.	Positions	Soundings	Miles, statute.	Vessels.
August 24	a	1	130	1033	2 6.4	Launch
25	b	1	37	242	6.1	
September 7	c	1	73	599	15.8	
13	d	1	17	128	3.0	
Total	4	1	257	2002	51.3	

August 25	a	1	69	545	8.2	Whaleboat
26	b	1	59	424	7.7	
27	c	1	24	250	4.7	
Total	3	1	152	1219	20.6	

RECAPITULATION.

Launch	4	1	257	2002	51.3	
Whaleboat	3	1	152	1219	20.6	
Grand Total	7	2	409	3221	71.9	

The Unit of Soundings is Feet.

Plane of reference

2.50 feet.

Lowest tide observed

1.31 "

Highest tide observed

5.38 " .

MDH
Jan. 18, 1912.

HYDROGRAPHIC SHEET 3182.

Handwritten notes:
S.S. D.W.
to
1/18/12

James River, Virginia, Barrets Point to Trees Point,
by Asst. O. W. Ferguson, in 1910.

TIDES

Claremont
ft.

Mean low water or plane of reference on staff	2.5
Lowest tide observed	0.9
Highest " "	6.0
Mean range of tide	2.0

Coast and Geodetic Survey

JAN 18 1912

TIDAL DIVISION

