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

Superintendent.

State: *Va*

DESCRIPTIVE REPORT.

*Top.* Sheet No. *3383*

LOCALITY:

*Pamunkey River -  
White Horse to Horn  
Leap Ferry*

1912

CHIEF OF PARTY:

*O. H. Hergrison*

11-4845

3383

1.

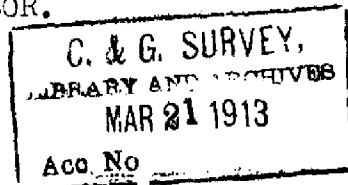
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DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETIC SURVEY.

O.H.Tittmann, Superintendent.

Survey of the Pamunkey River, Virginia.



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DESCRIPTIVE REPORT.  
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For Topographic Sheet ~~X~~, 3383

From White House Va. to 4 1/2 miles above New Castle, Va.

between

Latitude 37 34' and 37 42' and

Longitude 76 59' & 77 13'

Scale 1/20000

From November 16th, 1912, to February 19th, 1913.

SCHOONER "MATCHLESS"

O.W.Ferguson, Assistant, C.&.G.S., Commanding.

OBSERVERS.

O.W.Ferguson, Assist.; James E. Marsh, Mate; Henry

B. Campbell, Aid; and James S.S. Jones, Aid.

This sheet covers a portion of the River not before charted nor marked for navigation, nor are there day marks now.

It shows the Pamunkey River from where it leaves the Rail Road and passes through a good agricultural country, to 4 1/2 miles above the bridge at New Castle.

DESCRIPTIVE REPORT.  
 )))))))  
 For Topographic Sheet G,

33333

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 CONTROL  
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The control of this work is excellent being by a new system of triangulation with short sides and many stations, from White House to Station Crow, half way up the sheet, and, by a carefully observed, marked and computed Meander Line carefully checked and plotted and verified by a good determination of the declination of the Needle at its farthest point. The observations for Azimuth and Latitude at the upper end of the triangulation show that the positions are all accurate.

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 - - SHORES  
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There is a good deal of marsh on this sheet, also, but for less than on the preceding, and the growth of vegetation on these marshes is not so high as on the lower river.

About two-thirds of the shore line is of soft mud, along a very narrow or wider marsh. Where not ~~not~~ muddy, the shores are of silt, sand and clay higher up.

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 SURFACE  
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There is 1/3 of the surface marshy, covered with grass, and fully ~~x~~ another 1/3 of swamp covered with a growth of gum and ash timber.

The general surface becomes more elevated as we ascend the river, being of an elevation of ~~from~~ 10 to 20 feet on the lower portion and from 20 to 70 on upper portion of the river.

There is no stone nor gravel in the ~~soil~~ and consequently it washes readily, but <sup>e</sup> over this portion of the river are many good farms with

## DESCRIPTIVE REPORT.

For Topographic Sheet G,

large stretches of level land . In many stretches along the shores  
<sup>are</sup> strata of marl, which contains 40 % of lime, some potash and is valuable  
 for fertilizer. Many tons of it have been taken out, from 100 years ago  
 to the present, and put on the land for fertilizing, but the industry  
 will yet be carried on in a much larger and more economical way by the  
 use of a little capital and some machinery. The trees grow  
 large and heavy along these marl banks, so that where there is no marsh  
 the shores are covered with large trees which in time fall into the  
 river, injuring navigation.

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 Water  
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Over this entire sheet the water is fresh and is used by the  
 ships and barges for drinking purposes, but it is never clear and is  
 probably a poor water to drink. There are a good many "free water"  
 ( soft water ) springs which furnish clear and healthy water, but  
 Artesian water is not <sup>in</sup> general obtained.

-----  
 OCCUPATION  
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The inhabitants are generally occupied at farming, but many neglect  
 the land for the ready cash found in the wood, tie, poles and lumber <sup>business</sup>  
 the country is divided up into average large farms of from 200 to  
 1500 acres , a portion, 10 %, of the land is owned by colored people;  
 but in general the colored people work on the large farms owned by  
 white men, for 75 cts. a day and board themselves.

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 PRODUCE  
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The products are the various products of the farms in quite large  
 quantities , Wheat, Corn and Peas also a goodly portion of beef cattle are

## DESCRIPTIVE REPORT.

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 For Topographic Sheet G,  
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fattened on the corn raised, but poultry and pork are the main shipments. Wood, lumber, ties, poles and mine poles, props, and pilings for wharves and bridges along the railroad are shipped out.

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 TOWNS  
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White House is at the lower confines of the sheet, but there being no regular line of steamers run on the river the lines of commerce and trade all tend to the railroad stations, and nearly all on the South Side of the river is tributary to Tunstall and the North side to Lester Manor, and Tunstall. A list of triangulation stations and objects on this sheet accompanies this report, giving the geographical positions of each. *On eight sheets.*

O.W.Ferguson

Assistant, C.&amp;.G.S.

## Survey of the Pamunkey River.

1.

## GEOGRAPHIC POSITIONS.

For Topographic Sheet G

Window 0	37	34	1425.0	77	01	554.0
Center "of draw" 0	37	34	1450.0	77	01	453.0
Track	37	34	1453.9	77	01	554.2
Signal "pole #2." 0	37	34	1444.0	77	01	305.0
Road	37	34	1430.3	77	01	99.3
Yants	37	34	1535.7	77	00	1103.8
Bur	37	34	1727.8	77	01	292.7
Hind	37	35	272.3	77	00	1139.9
Bay	37	35	383.6	77	01	321.4
Hatch	37	34	1770.9	77	01	622.3
Saw	37	35	164.7	77	01	720.4
Pith	37	35	139.6	77	01	1411.0
Meadow	37	35	442.0	77	01	1346.2
Poplar	37	35	259.3	77	02	504.0
Grove	37	35	436.6	77	02	412.9
Snag "old tree" 0	37	35	437.0	77	02	487.0
Shanty	37	35	378.0	77	02	859.6
Brace	37	35	737.9	77	02	633.1
Bough	37	35	1026.1	77	02	1053.0
House 0	37	35	1073.0	77	02	794.0
Williams	37	35	1131.5	77	02	901.4
Green	37	35	1391.7	77	03	80.3
Greg	37	35	1495.1	77	02	1334.3
Sup	37	36	6.8	77	03	271.1
Ferry "boat" 0	37	36	96.0	77	03	610.0
Sail	37	35	1705.2	77	03	775.7
Ship	37	36	109.7	77	03	723.7
Ray	37	35	1826.1	77	03	1042.8
Hope	37	36	210.2	77	03	992.3

*By mistake no carbon  
was made for the duplicate  
O. W. H.*

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Survey of the Pamunkey River.  
 GEOGRAPHIC POSITIONS.  
 For Topographic Sheet # 6.

Elect	37	36	205.1	77	03	1298.9
Woods	37	36	310.7	77	03	1244.3
War	37	36	368.3	77	04	41.2
Liberty	37	36	537.3	77	04	54.4
" "hall" 0	37	36	505.0	77	03	610.0
Ball	37	36	452.9	77	04	252.7
Ring	37	36	231.9	77	04	226.6
Polk	37	36	162.9	77	04	364.4
Cabin 0	37	35	1784.0	77	04	234.0
Move	37	35	1773.1	77	04	358.1
Negro	37	35	1654.0	77	04	272.4
On	37	35	1479.9	77	04	377.7
Oppo	37	35	1528.0	77	04	594.6
Doctor	37	35	1396.3	77	04	643.9
Raw	37	35	1489.5	77	04	902.4
Week	37	35	1379.0	77	04	803.8
High "barn " 0	37	35	1310.0	77	04	783.0
Greg "house" 0	37	35	1178.0	77	04	853.0
Hog	37	35	1416.1	77	04	1269.0
Pen	37	35	1529.5	77	04	1121.4
Buck	37	35	1702.0	77	04	1434.7
Boyd	37	35	1688.5	77	05	219.7
House 0	37	35	1819.0	77	05	358.0
Water	37	35	1836.4	77	05	369.8
Black	37	36	116.8	77	05	257.0
Loo	37	36	214.8	77	05	555.6
Mutton	37	36	245.7	77	05	397.8
Briar	37	36	292.3	77	05	670.9
Rat	37	36	375.6	77	05	595.5

## Survey of the Pamunkey River.

## GEOGRAPHIC POSITIONS.

For Topographic Sheet #6.

Jones "house" 0	37	36	333.0	77	05	798.0
Mink	37	36	494.8	77	05	659.1
Pike	37	36	494.6	77	05	770.6
Putneys "mill" 0	37	36	607.0	77	05	869.0
Gar	37	36	710.9	77	05	855.9
Lic	37	36	738.2	77	05	659.6
Trap	37	36	1121.5	77	05	683.1
Mire	37	36	1226.2	77	05	867.8
Fire	37	36	1402.8	77	05	569.6
Sign "keep out" 0	37	36	1548.0	77	05	721.0
Monte	37	37	223.6	77	05	561.7
Montegue "house # 1. 0	37	37	438.0	77	05	600.0
Log "on shore" 0	37	37	143.0	77	05	858.0
Web	37	36	1822.0	77	05	944.9
Gue	37	36	1793.2	77	05	1267.5
Wax	37	37	125.5	77	05	1298.3
Richards	37	37	41.4	77	05	1442.6
Farm "house" 0	37	36	1807.0	77	06	382.0
Mop	37	37	399.6	77	06	280.0
Con	37	37	506.9	77	06	115.3
Dike	37	37	618.8	77	06	393.6
Corn	37	37	699.9	77	06	239.7
Field	37	37	921.5	77	06	393.5
Montegue "house # 2. 0	37	37	1196.0	77	06	34.0
Buz	37	37	784.2	77	06	775.8
Crow	37	37	928.7	77	06	940.6
Notice "on point" 0	37	37	893.3	77	06	1041.0
1. 0	37	37	726.1	77	06	1331.2
2. 0	37	37	739.2	77	07	66.6



Survey of the Pamunkey River  
GEOGRAPHIC POSITIONS.

4.

For Topographic Sheet # 6.

3.	0	37	37	820.5	77	07	45.1
4.	0	37	37	834.2	77	07	360.1
End "lumber chute"	0	37	37	970.3	77	07	519.1
5.	0	37	37	1039.1	77	07	464.2
Sign "keep out"	0	37	37	1397.4	77	07	782.4
6.	0	37	37	1178.9	77	07	743.0
Sign "keet out"	0	37	37	1188.3	77	07	603.3
Boat house	0	37	37	1384.5	77	07	895.5
7.	0	37	37	1471.7	77	07	844.5
Shanty	0	37	37	1453.1	77	07	968.1
Notice	0	37	37	1674.9	77	07	1059.6
8.	0	37	37	1761.0	77	07	1089.0
Posted	0	37	37	1784.7	77	07	967.3
9.	0	37	38	162.8	77	07	1117.1
10.	0	37	38	240.4	77	07	1205.4
House	0	37	38	306.7	77	07	1193.7
11.	0	37	38	486.2	77	07	794.3
12.	0	37	38	384.4	77	07	665.1
13.	0	37	38	339.1	77	07	509.8
14.	0	37	38	316.9	77	07	140.3
15.	0	37	38	245.4	77	07	60.3
16.	0	37	38	290.6	77	06	1288.3
17.	0	37	38	623.5	77	06	1331.4
18.	0	37	38	844.9	77	07	151.9
19.	0	37	38	1121.9	7	07	59.6
20.	0	37	38	1371.1	77	07	9.0
21.	0	37	38	1674.4	77	06	1092.4
House	0	37	38	1694.0	77	06	925.0

Survey of the Pamunke y River.  
GEOGRAPHIC POSITIONS.

5.

For Topographic Sheet # 6.

22. 0	37	39	180.6	77	06	992.7
23. 0	37	39	407.6	77	06	795.7
House 0	37	39	505.0	77	06	752.0
24. 0	37	39	603.4	77	06	865.3
25. 0	37	39	901.0	77	06	699.3
26. 0	37	39	1084.6	77	06	778.1
27. 0	37	39	1262.0	77	06	758.1
28. 0	37	39	1582.4	77	06	984.6
House "at point " 0	37	39	1627.0	77	06	943.0
28 1/2. 0	37	39	1506.4	77	06	1260.1
29. 0	37	39	1333.6	77	07	15.0
30. 0	37	39	1094.6	77	07	176.6
31. 0	37	39	1154.9	77	07	442.5
Dolphin 0	37	39	1146.9	77	07	606.8
32. 0	37	39	1187.5	77	07	841.0
33. 0	37	39	1336.1	77	07	1180.9
34. 0	37	39	1341.5	77	07	1421.1
35. 0	37	39	1507.6	77	08	209.9
36. 0	37	40	23.3	77	08	213.8
Posted 0	37	40	84.0	77	08	425.3
37. 0	37	40	64.4	77	08	538.9
38. 0	37	39	1660.8	77	08	712.3
39. 0	37	39	1773.0	77	08	886.1
40. 0	37	40	165.1	77	08	697.0
41. 0	37	40	364.8	77	08	1054.9
42. 0	37	40	579.9	77	08	987.7
43. 0	37	40	884.8	77	08	1207.1
44. 0	37	40	983.2	77	08	1402.0
45. 0	37	40	772.0	77	09	65.0

Survey of the Pamunkey River.  
 GEOGRAPHIC POSITIONS.  
 For Topographic Sheet # 6.

6.

45 1/2. 0	37	40	590.0	77	09	5.1
46. 0	37	40	276.2	77	08	1357.0
47. 0	37	40	110.0	77	08	1347.5
48. 0	37	40	5.7	77	08	1265.5
49. 0	37	39	1622.1	77	08	1347.4
50. 0	37	39	1487.9	77	09	72.9
51. 0	37	39	1620.6	77	09	444.5
52. 0	37	40	154.2	77	09	67.6
53. 0	37	40	286.2	77	09	619.6
54. 0	37	40	93.9	77	09	666.6
55. 0	37	39	1841.6	77	09	581.9
56. 0	37	39	1709.7	77	09	653.4
57. 0	37	39	1731.9	77	09	884.5
58. 0	37	39	1833.5	77	09	853.6
59. 0	37	40	1.9	77	09	1004.8
60. 0	37	39	1758.4	77	09	1084.1
61. 0	37	40	41.7	77	09	1218.3
62. 0	37	40	162.2	77	09	1209.4
63. 0	37	40	171.5	77	09	1362.1
64. 0	37	39	1641.2	77	09	1293.3
64. 1/2. 0	37	39	1460.2	77	09	1433.9
65. 0	37	39	1148.0	77	10	156.9
66. 0	37	39	1088.5	77	10	557.0
67. 0	37	39	992.5	77	10	693.6
68. 0	37	39	1009.7	77	10	1108.5
69. 0	37	39	771.8	77	11	0.1
70. 0	37	39	824.5	77	11	343.1
71. 0	37	39	1038.0	77	11	595.2
72. 0	37	39	1197.5	77	11	563.4

## Survey of the Pamunkey River.

7.

## GEOGRAPHIC POSITIONS .

For Topographic Sheet # 6.

73.	0	37	39	1386.2	77	11	788.0
74.	0	37	39	1709.4	77	11	870.2
75.	0	37	40	81.5	77	11	856.3
76.	0	37	40	65.9	77	11	646.4
77.	0	37	40	219.9	77	11	495.6
78.	0	37	40	324.7	77	11	535.5
79.	0	37	40	458.3	77	11	391.8
80.	0	37	40	450.3	77	11	304.0
81.	0	37	40	648.9	77	11	109.5
82.	0	37	40	771.5	77	11	68.7
83.	0	37	40	832.2	77	10	1452.6
84.	0	37	40	1003.9	77	11	249.2
85.	0	37	40	1139.7	77	11	227.0
86.	0	37	40	1244.2	77	11	70.2
87.	0	37	40	1708.5	77	11	36.7
88.	0	37	41	259.9	77	11	96.2
89.	0	37	41	461.1	77	11	250.2
90.	0	37	41	314.2	77	11	411.6
91.	0	37	41	338.8	77	11	562.9
92.	0	37	41	605.9	77	11	665.6
93.	0	37	41	805.1	77	11	961.5
94.	0	37	41	835.9	77	11	1157.1
95.	0	37	41	748.4	77	11	1294.1
96.	0	37	41	752.4	77	12	71.6
97.	0	37	41	508.7	77	12	291.5
98.	0	37	41	213.0	77	12	357.8
99.	0	37	40	1785.3	77	12	187.0

Survey of the Pamunkey River.

8.

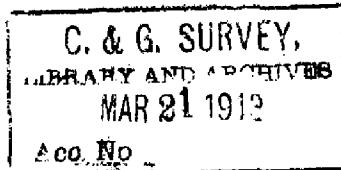
GEOGRAPHIC POSITIONS.

For Topographic Sheet # *G*.

100.	0	37	40	1335.2	77	12	306.6
101.	0	37	40	1150.6	77	12	603.4
102.	0	37	40	1191.1	77	12	967.2
103.	0	37	40	1126.9	77	12	1143.1

*W. F.*

3383



DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETIC SURVEY.

O.H.Tittmann , Superintendent.

Survey of the Pamunkey River, Va.

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TITLE SHEET  
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For Topographic Sheet G.

Extending from White House to 4 1/2 Miles above New Castle Va.

between

Latitude  $37^{\circ} 34'$  and  $37^{\circ} 42'$

Longitude  $76^{\circ} 59'$  &  $77^{\circ} 13'$

SCALE 1/20000

From November 16th, 1912 to Feb. 19th, 1913.

SCHOONER "MATCHLESS".

O.W.Ferguson, Assistant C.&.G.Survey, in command.

OBSERVERS.

O.W.Ferguson, Assistant; James E.Marsh, Mate ; James  
S.S.Jones, Aid; and Henry B.Campbell, Aid.