# 11060

Diag. Cht. No. 78-4.

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Photogrammetric

Field No Ph-101 (52) Office No. T-11060

LOCALITY

State Virginia

General locality Piankatank River

Locality Roane Point to Anderson Point

194/52-53

CHIEF OF PARTY

L.C.Lande, Div. of Photo. Washington

LIBRARY & ARCHIVES

DATE June 23, 1958

B-1870-1 (1)

#### DATA RECORD

## T = 11060

Project No. (II): Ph-101 (52) Quadrangle Name (IV): Roane Pt. to Anderson Pt. Piankatank River, Virginia

Field Office (II):

Chief of Party:

Photogrammetric Office (III): Washington

Officer-in-Charge:

Instructions dated (II) (III):

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 21 Jan 1958

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927

Vertical Datum (III): MHW

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): STAMPERS 1942

Lat.: 37° 32' 14"679 (452.5) Long.: 76° 25' 35"677 (875.9)

Adjusted biomatinisted x

Plane Coordinates (IV):

State:

44.4

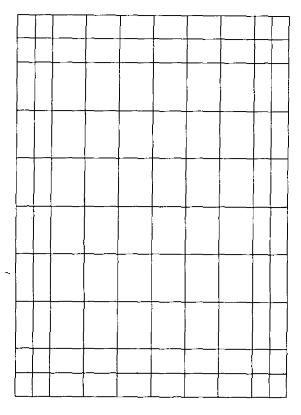
Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



Areas contoured by various personnel (Show name within area) (II) (III)

Inapplicable

# DATA RECORD

Field Inspection by (II): None	Date:
Planetable contouring by (II): Inapplicable	Date:
Completion Surveys by (II):	Date:
Mean High Water Location (III) (State date and method of location):	
Interpreted in office on photographs taken 1952	
Projection and Grids ruled by (IV): Jack Allen	Date:16 Feb. 1953
Projection and Grids checked by (IV): Howard Wolfe	Date: 16 Feb. 1953
Control plotted by (III): C. Hanavich E. H. Ramey	Date: 20 May 1953
Control checked by (III): C. Hanavich E. H. Ramey	Date: 20 May 1953
Radial Plot or Stereoscopic Control extension by (iii): $R_{\bullet}$ J. French	Date: May 1953
Planimetry	Date:
Stereoscopic Instrument compilation (III):  Contours	Date:
Manuscript delineated by (iii): $E_{ullet} H_{ullet}$ Ramey	Date: 20 May 1953
Photogrammetric Office Review by (III):	Date:
Elevations on Manuscript checked by (II) (III): Inapplicable	Date:

Form T-Page 3

M-2618-12(4)

Camera (kind or source) (III):

USC&GS, Single-lens camera "0"

Number	Date	PHOTOGRAPHS (I	II) Scale	Stage of Tide
52-0-1940 thru 1942	13 Oct. 1952	1120	1:24,000 raticed to 1:10,000	1.0 above MLW
52-0-1930 thru 1932	n	1112		tt.
52-0-1878 thru 1880	tt	1047	,	n

Tide (III)

Hampton Roads Reference Station:

Subordinate Station: Horse Point, Piankatank River

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	2.5	3.0
0.6	1.4	1.7

Date:

Date:

Date: -

Date:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of Recoverable Photo Stations established (III): Number of Temporary Photo Hydro Stations established (III):

Number of BMs searched for (II):

Recovered:

Identified:

Recovered:

Identified:

Remarks:

SHORELINE SHEETS T. 9898, T-11052, T-11054, T-11056 & T-1122

Project Ph-101(52)
Shoreline Sheets T-11060, T-11058, T-11056, T-11054, T-11052, T-11226.

Refer to "control index" attached to this report.

# Area Covered:

This radial plot report covers the sheets listed above and extends from control just south of the Piankatank River, north to a line of U.S.C.&G.S. 3d order traverse just north of the headwaters of the Corrotoman River and ties to a nine-lens radial plot on the East.

# Photography:

The "0" camera was used and ratio prints were made on positype paper at compilation scale of 1:10,000. It was not considered necessary to use a distortion correction templet in making the templets after an inspection of several photographs indicated they were relatively free of angular distortion. Side lap between flights was a maximum of 10 percent with some flights just meeting. This in itself was not conducive to a strong plot where control was not specifically distributed for a single lens plot.

# Methods:

Acetate templets were used and when the plot did not lay satisfactorily, new projections were ordered on vinylite and an attempt was made to hold control better. Intersections between flight lines were not of the best to be desired, but an overall adjustment was accomplished such as to distribute any large inherent errors that might exist.

The intersections were drilled with a number 80 twist drill, and the pass points and photo centers were inked with GPO blue ink on the back side of the manuscript.

A sheet layout index to control used is attached to this report, and a summary of the control and the tolerances obtained are listed with side remarks on control not held.

The distribution of control is not adequate for a single lens plot of this kind, but the side lap coverage of the photography is more delinquent than the deficiency in control since it was necessary to bridge from control on the north bank of the Rappahannock River north to Slaters RM No. 1, 1942 and on to the traverse along State Highway No. 3 near Lancaster.

An accuracy test will be made with the stereoplanigraph bridging between control. Compilation will be delayed pending the outcome of that work.\*

Approved by:

L. C. Lande

Submitted by:

Poscoe J. French

\* only for T-11052,054,056 and T-11226 RUF

SUMMARY

Control used in the Radial Plot - T-11052, T-11054, T-11056, T-11058, T-11060, T-11226.

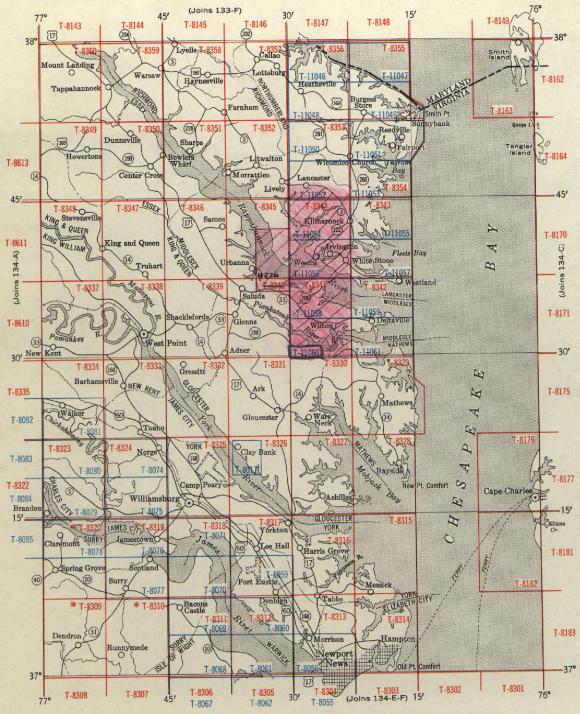
Station Name	Tolerance	Remarks
Piankatank 19(v) 1932 Sub.pt. Pts - 1 (USGS) 1916 Piankatank 17(v)1932 Sub.pt. Air Beacon WNAB-4,1942 Stampers 1942 Mill, 1953 Harmony, 1942 Har, 1953, Sub.pt.	Held	plot order used to control radial/ plot order used to control radial/
Grey Pt. Lt., 1944 Grey 3, 1942 Cherry 3, 1944, Sub.pt. Cherry 3, 1944 Whitestone ME Ch.Sp., 1942 Pon, 1953	Held Held Held 4th	falls NW of sta.  plot  prder used to control radial/
Orchard 3, 1942 Old House,(v)1919, Sub.pt. Towles 3, 1942 sub.pt. Slaters, 1942, RM1 Slaters, 1942, 1944 sub.pt. Kilmarnock Mun.W.T., 1942 PP18F, 1944	Held Held Held Held O.3mm Falls	s SW of computed position
PP17F, 1944 BM 18, 1944 BM K 270, 1944 sub.pt. BM J 270, 1944 sub.pt. BM H 270, 1944 sub.pt. PP 7 F, 1944 PP 6 F, 1944	Held Falls Falls Held Held Held	NE of computed position SW of """
Rog, 1944 Bar Pt. Lt. Har, 1944 West Pt. Lt.	Held .8 mm Falls	s SW of 1944 position

\* Fall on T- 11060

#### UNITED STATES DEPARTMENT OF COMMERCE Coast and Geodetic Survey

MAP INDEX 134-B





AREA OF SINGLE LEWS

RADIAL PLOT

SHORELINE SURVEYS: Show natural and cultural features, except contours and elevations, but cover only he sharehine and for land area immediately adjacent thereto. Surveys T-8056, T-8059 to T-8061, T-8068 to T-8071, T-8074 to T-8081, scale 1:10,000, prepared from aerial physical phy Not to be published but photographic copies of the original manuscripts can be furnished by the U. S. Coast and Geodetic Survey at 75c each

TOPOGRAPHIC MAPS: Part of the 7½-minute series of standard topographic quadrangle maps of the United States. Maps T-8163, T-8176, T-8182 (from aerial photographs taken April 1942): T-8311 to T-8318, T-8327 to T-8330, T-8337 to T-8342, T-8346 to T-8360 (from aerial photographs taken December 1942): T-8343 to T-8345 (photographs taken February 1944): T-8309, T-8310, T-8319, T-8320, T-8323 to T-8326, T-8331 to T-8334 (photographs taken March 1948), compiled by the U. S. Coast and Geodetic Survey at scale 1:20,000. Printed and distributed by the U. S. Geological

TUM LATITUDE OR L. COORDINATE OF PROJECTION LINE IN METERS.  A 37 33 02.029  A 37 32 02.029  A 37 32 04.264  37 32 04.264  37 32 04.264  37 32 04.264  37 31 35.677  24.551 14.73-0 875.9 (597.1)  37 31 35.677  24.551 14.73-0 875.9 (597.1)  37 31 35.677  26.6 (1787.2)  76 29 04.141  76 29 04.141  76 28 02.036  76 28 02.036  76 28 02.036  76 28 02.036  76 28 02.036  76 28 02.036  76 28 02.036  76 28 02.036  77 14.73-0 875.9 (597.1)  78 28 02.036  78 28 02.026  78	Opporting 1		322	TROSECT NO.	SCALE OF MAP	2000	SCALE FACIOR	JK ***
		OURCE OF FORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
1k 17 (V)  1k 17 (V)  1k 19 (V)	WN-Norfolk Air-Pway Bn. No.4 1942	£9†/•	NA 1927	7 33 02.02 28 22.96			62.6 (1787.2) 563.8 (909.0.)	
atank 17 (V)		· · · · ·	NA 1927	32 25	30,829 24,551	1849.8	452.5 (1397.3) 875.9 (597.1)	
" 37 31 35.543 10 76 28 02.036 Scalled from societe.  Medius cript 7: 8340	ratank 17	. 541		32 04.26 29 04.14	-			
(USGS) Stalled from accifete.  Manuscript 77 8340  Manuscript 77 8	Piankatank 19 (V) 1932	04/5•	=	3 <b>1</b> 28			1095.8 (754.0) 50.0 (1423.2)	
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FT.= 304500 METER								
I F1.= 3048006 WETER								
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1 FT = 3048006 METER								
1 FT. = 3048006 WETER								-
computer By S. J. Hathown nate April 1962	1 FT = 3048006 METER	thom n		Annil 1953	S.N ve cascalar	Schults		M-2388-12 m- 10氏3

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Tr (VFC) G-5646	
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P.539 " 76 25 58.812 7 37 31 18.599	
7 37 31 18,599	
(VFC) 1932 " " 76 25 37.486 920.5	

MAP T- 11060			PROJECT NO. Ph. 101	SCALE OF MAP 1:10,000	10,000	SCALE FACTOR	)R
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Piankatank 9 (VFC), 1932	3-5646 P-539	NA 1927	37 31 04.483 76 26 26.411	138.2. 648.6			
Plankatank 8 (VFC) 1932	=	u	37 31 µ8,382 76 25 59,581	1491.6 1462.9			
Piankatank 23 (VFC), 1932	#	£	30 26	1370.3			
Piankatank 10 (VFC) 1932	<b>u</b>	41	31	222.8			
Piankatank 22 (VFC) 1932	#	#	31	106.9			
Piankatank 11 (VFC) 1932	#	ä		9*005			
Piankatank 21 (VFC) 1932	g-5646 P.540	#		333.2 974.5		,	
Piankatank 20 (VFC) 1932	E	#	31	948.3 1195.8			
Piankatank 13 (VFC) 1932		=	31	1764.1			
Piankatank 18 (VFC) 1932	=	ε	31	1318.6			
Piankatank 15 (VRC) 1932	=	2	32 28	1,89.1 692.8			
1 FT.=,3048006 METER COMPUTED BY: C.A.H.E.		PO	DATE 13 MBY 1953	CHECKED BY. C.+H.	• 5r!	DATE	DATE 1953

MAP T- 11060		PROJEC	PROJECT NO. Ph-101	11	SCALE OF MAP1:10,000	000.00	SCALE FACTOR	JR
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	N.A. 1927 - DATUM  DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)  N.A. 1927 - DATUM FACTOR DISTANCE IN METERS FORWARD (BACK)
Piankatank 16 (VFC) 1932	G-5646 P.541	NA 1927	37 32 19 76 29 12	19.859 12.540	612.2			
Piankatank 24 (VFC) 1932	=	<b>\$</b>	32	16,065	1,95.3 722.h			
Piankatank 26 (VFC) 1932	11	u	32	09° 586	295.5			
Piankatank 25 (VFC), 1932	#	ŧ	32	21,190	662.5			
Yellow (VFC) 1920	P.537	£	31	59.388	1830.9			
Piankatank 27 (VFC) 1932	P•541	ti.	32	13,602	324.4			
1 FT.=.3048006 METER COMPUTED BY:	H.	VO	DATE 13 May 1953	1953	CHECKED BY. C.H.		DATE 13	13 May 1953

# Compilation Report Shoreline Survey T-11060

- 31. Delineation. Features were delineated by the graphic method and include only shoreline, waterfront structures, the low-water line and shallow lines. Delineation was done without the benefit of field inspection and is subject to errors in office interpretation. Single-lens photographs taken in October 1952 were used for the compilation.
- 32. Control. Only four triangulation stations in this survey were identified and used in the radial plot (see the Photogrammetric Plot Report for listing). The remainder which the Division of Geodesy reports as extant were plotted as part of this compilation. Some of these plotted at or offshore from the MHW line and are referred to the hydrographic party for checking. These are: Yellow (VFC) 1920, Lower (VFC) 1920, Piankatank 6 (VFC) 1932, Piankatank 7 (VFC) 1932, Piankatank 26 (VFC) 1932.
- 33. & 34. Inapplicable.
- 35. Shoreline and Alongshore Details.-These details were interpreted on the photographs. Shallow lines represent tone lines on the photographs which may be of possible value to the hydrographic party.
- 36. & 37. Inapplicable.
- 38. Control for Future Surveys.-Identifiable alongshore details were positioned during this compilation for use by the hydrographic party. These are identified and labeled on photographs 52-0-1940 and 1941, 52-0-1931, and 52-0-1879 and 1880. They are also listed under paragraph 49.
- 39. <u>Junctions</u>.-This survey junctions with T-11058 to the northward and with T-11061 to the eastward.
- 40. Horizontal Accuracy.-See the Photogrammetric Plot Report.
- 41. to 45. Inapplicable.
- 46. Comparison with Registered topographic surveys.-

T-8340 1:20,000 1946 T-8341

Except for minor differences in shoreline and cultural changes, this survey is in close agreement with these prior surveys. Examples of some shoreline differences are the north shoreline of Piankatank, River at longitude 76° 3012 and 76° 31.1. Here the prior survey apparently chose some line for mean high water instead of showing an apparent shoreline along marsh.

#### 47. Comparison with Nautical Charts .-

1951 corrected to 53-2/9 534 1:40,000 1951 corrected See items listed under par. 46. 1:40,000

Items to be applied to charts immediately:

Items to be carried forward: None

Submitted by:

22 May 1953

APPROVED BY:

Chief, Compilation Section

Div. of Photogrammetry

# Hydrographic Signals Project Ph-101 Sheet T-11060

# Photo - 52-0-1941

700 thru 704 - inadvertently were not used 705 Pier end 706 E corner of dk. spot 707 Pier end 708 Veg. end at point 709 Pier end 710 Pier end 711 N. Gable of House 712 Mound 712A N.W. Corner of pier 713 N.W. Gable House 714 Bush 715 Lone tree 716 N.W.Corner "T" pier 717 Pier end 718 Pier end 719 Pier end 720 Pier end 721 Dark Spot 722 E. Gable 723 E. end of pier 724 Pier end 725 Pier end 427 N. Gable 428 S. Gable 429 N. end of pier 430 Tree 431 Corner of sand

# 52-0-1940

726 Pier end 727 Pier end 728 E. Gable 729 Pier end 730 Pier end 731 Pier end 732 E. end of Pier 733 Fender of bridge 734 W. end of pier 735 Pier end

# 52-0-1931

736 S. shore end of dock 737 N. corner of pier 738 Pier end 739 Tree 740 H.W. corner of pter boathouse 741 Bush 742 Bush 743 Bush at point 744 Lone tree 745 Pier end 746 End tree at point 747 Offshore Gab of Boat House 748 Pier end 749 Center of white Sand spot 750 Offshore Gab. of Bo.Ho. 751 Pier end 752 S. Corner dock 753 End tree 754 Bush at Point 754A N.E. edge of sand

## 52-0-1879

755 Pier end
756 Dark Spot
756A Pier end
757 E. corner of pier
758 Dark Spot
759 Offshore gable
760 (Piankatank 17 sub pt) pier end
761 Offshore gable
762 Pier end
763 Lone tree
764 Center of dark spot
765 Lone tree
766 Lone shrub Shed
767 N.W. corner of pier

## 52-0-1880

768 Dark spot
769 N.E. corner of pier
770 Pier end
771 Lone bush
772 Dark spot
773 Dark spot
774 Fence at MHWL
775 Lone tree
776 Dark Spot
777 Pt of vegetation
778 Pt of vegetation
779 Lone tree
780 Easterly tree
781 Dark spot
782 Lone tree
783 Pt at crook of stream

# GEOGRAPHIC NAMES T-11060

Berkley Island

Wilton Point

Cobbs Creek

Fairfield Landing

Coach Point

Dixie

Cooper Point

Stampers Wharf

Creek Point

Dancing Creek

Deep Point

Doctor Point

Ferry Creek

French Creek

Ginney Point

Glebe Neck

Healy Creek

A.J.W. 4/6/55

Hell Neck

Holland Foint

Horse Point

Iron Point

Piankatank River

Pond Point

Roand Point

Wilton Creek

Cartographic Branch

4 March 1957

Chief, Photogrammetry Division

Review of Shoreline maps, Project of The Washing Branch Mobjack Bay to Potomac River)

It is my understanding that the project instructions call for the compilation of any new roads or road realignments in the project area, but that compilation has actually been limited to shoreline and signals for hydrographic support and has not covered any interior details.

In view of the press of work now on hand, I do not think that we should compile additional information on these maps. If such is needed for a chart revision, Mr. Brooks! Unit can take care of it as a chart correction job.

In reviewing the project, please be concerned only with the shoreline and information for hydrography and ignore the omission of interior details.

> L. W. Swangen, Chief, Photogrammetry Division

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# REVIEW REPORT T-11060 Shoreline Survey 5 March 1957

# 62. Comparison with Registered Topographic Surveys

T-1100	1:20,000	1869
T-2869	Ħ	1907-1908
T-2870	11	Ħ
T-8341	11	194241946

The manuscript delineates shoreline only and was prepared to establish signals for hydrography. Inshore revision of nautical charts is not possible.

# 63. Comparison with maps of other agencies

USGS Wilton, Virginia quad 1:24,000 1946

The base for this quadrangle was T-8341.

# 64. Comparison with Contemporary Hydrographic Surveys

8081 November 1953

The shoreline, as compiled, was accepted without change by the hydrographer.

# 65. Comparison with Nautical Charts

Chart # 1223	1:80,000 5th edition 8/22/55	revised 8/27/56
Chart # 534	1:40.000 3rd edition $7/2/51$	revised 10/31/55

#### 66. Map accuracy

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For the purpose of establishing hydrography, the manuscript was evidently of sufficient accuracy as no difficulties were encountered by the hydrographer.

The national standards of map accuracy cannot be guaranteed due to the unsatisfactory photo coverage and lack of control. (See the photogrammetric plot report). The planned accuracy test by stereoplanigraph was never accomplished in this area.

The junction of the manuscript with T-11209 was not perfect and minor correction was necessary. T-11209 was compiled with more recent photography than this manuscript.

The manuscript conforms with the project instructions as amended.

Reviewed by:

Hammond Ran

#### T-11069 REVIEW REPORT

Approved:

Chief; Review Section

Photogrammetry Division

Chief, Nautical Chart Branch Division of Charts

Chief, Division of Coastal Surveys

Chief Photogrammetry Division