8323

8324



Daig. Cht. No. 78-1.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic
T-8323
Field No. CS-289 Wl Office No. T-8324

LOCALITY

State Virginia

General locality Chickshominy River

Locality Brandon = Norge

1948-53

CHIEF OF PARTY
F.E. Peacock, hief of Field Party
L.J. Reed, Div. of Photo., Washington,
D.C.

LIBRARY & ARCHIVES

DATE June 5, 1958

8-1870-1 (J)

DATA RECORD

T-8323 and 8324

T-8323 = BRANDONProject No. (II): CS-289 WI Quadrangle Name (IV): = NORGE

Chief of Party: Fred E. Peacock Field Office (II): Baltimore, Md.

Radial Plot = Leslie E.Lande Officer Transfer Compilation = Louis J.Reed Washington, D.C. Photogrammetric Office (III):

Instructions dated (II) (III):

Photogrammetry (IV) (II) = Photogrammetry Instructions No.17

(III) = Photogrammetry Manual

Reading Plotter Method of Compilation (III):

Stereoscopic Plotting Instrument Scale (III): 1:20,000 Manuscript Scale (III): 1:20,000

Scale Factor (III): 1:1

FEB 2 6 1952 Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Date registered (IV): | April 1758 1953 495 Applied to Chart No.

1: 24000 Publication Scale (IV): Publication date (IV):

Vertical Datum (III): Geographic Datum (III): NA 1927

> 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

Copy filed in Division of

Reference Station (III):

Adjusted Lat.: Long.: Unadiostest

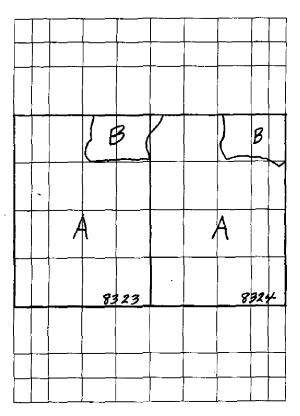
Zone: Plane Coordinates (IV): State:

1. Virginia State Grid, South (10,000 ft interval) 2. U.S.Military Grid, Zone A (1,000 yd interval)

3. Universal Transverse Mercator, Zone 18 (1,000 meter interval)

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)
(***) (III)

Area A: Contoured on the Reading Plotter, model B, by Orvis N.Dalbey and Louis Levin.

Area B: Contoured on the Reading Plotter, model A, by Clarence E.Misfeldt and William D.Harris.

DATA RECORD

Field Inspection by (II):

checked by (M) (III):

Fred E. Peacock (Crarat)

Date: 1945

Planetable contouring by (II): None

Date:

Completion Surveys by (11): E. T. Jenkins

T 8 3 2 3 - 1953 Date: T 8 3 2 4 - 1952

Mean High Water Location (III) (State date and method of location): The MHWL was indicated on 1942 9-lens photos during 1944 field inspection, and used as a guide during 1951 delineation using 1948 photographs. Therefore this shoreline is dated 1944.

Projection and Grids ruled by (IV): J_{ℓ}	ack Allen on the Reading Ruling Machine.	Date:	3	Dec	51
Projection and Grids checked by (IV):		Date:	4	∄ec	51
Control plotted by (III):	Robert L. Sugden	Date:	30	Jan	52
Control checked by (III):	Louis J. Reed	Date:	30	Jan	52
Radial Plot sprStereoscopics Control systemsion by (III):	Roscoe J. French and William D. Harris	Date:	9	Nov	51
Stereoscopic Instrument unggitation	Planimetry Orvis N. Dalbey Louis Levin	Date:		_	
Stereoscopic Instrume nt cyngglango (fi	Contours Clarence E.Misfeldt William D. Harris	Date:	31	Jan	52
compiled Manuscript d भू ग <u>ुक्तास्त्र</u> by (III):	Robert L. Sugden John B. McDonald	Date:	18	Feb	52
Photogrammetric Office Review by (III)	:Louis J. Reed	Date:	20	Feb	52
Elevations on Manuscript	Louis J. Reed	Date:	20	Feb	52

Camera (kind or source) (III): USC&GS 9-lens camera, model B, f=8.25 inches

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Washington Office Review by (IV): C. Theurer Date: T8323-11/403
Final Drafting by (IV): Date: 7-8324 - 1/5/53 Date: 7-8324 - 2/14/58
7-8324 -2/14/58
Drafting verified for reproduction by (IV): W.O. Hallim Date: T-8323 - 2/24/58 T-8324 - 2/20/58
Proof Edit by (IV): Date:

Recovered:

Recovered:

Land Area (Sq. Statute Miles) (III): 60 per quad 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 BMs searched for (II):

Number of Recoverable Photo Stations established (III):

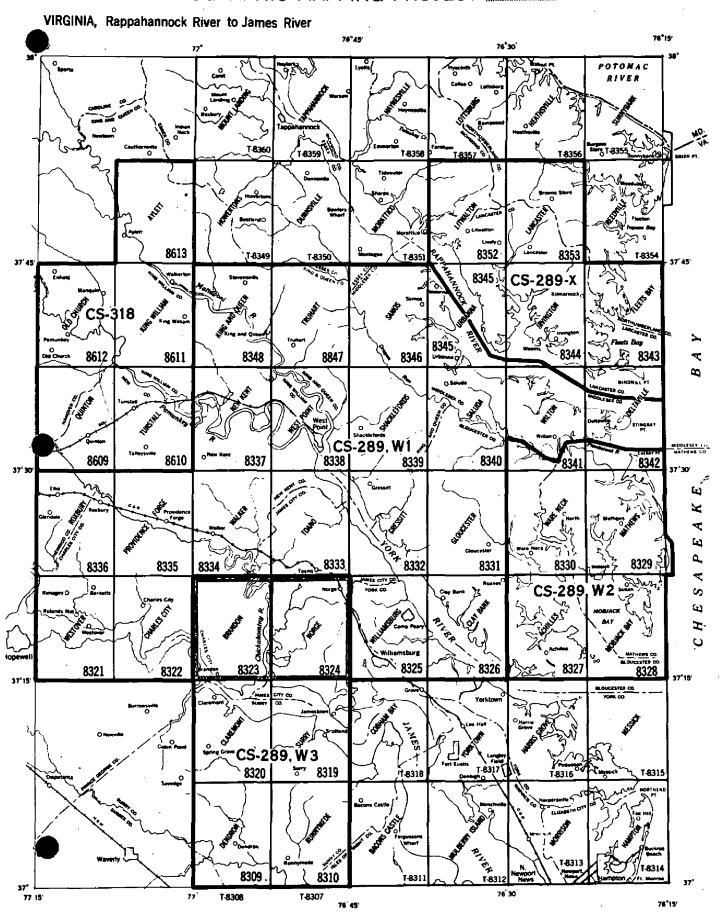
Number of Temporary Photo Hydro Stations established (III):

Remarks:

Identified:

Identified:

TOPOGRAPHIC MAPPING PROJECT CS-289-318 (47)



Photogrammetry

N.A. 1927 - DATUM

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IN METERS
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Summary T- 8323 4 8324

Topographic mapping Project CS-289 is divided into six subprojects: CS-289a, b, x, W-1, W-2, and W-3. Information concerning Project 289 in its entirety will be included in the Project Completion Report.

T- 8323 and T-8324 are two of six standard 7.5 minute quadrangles that are included in CS-289 W-3. This area was compiled by Reading Plotter.

This subproject covers an area along the James River between Brandon Point and Jamestown and includes most of the Chickshominy River. Principal towns in this area are Surry, Claremont and Dendron.

These quadrangles were compiled in 1952 and 1953 and field edited 1952-1954.

The maps of this project are to be published at 1:24,000 scale by the Geological Survey. A cloth-backed lithographic print of the original map manuscript at compilation scale, 1:20,000 and a cloth-backed color print of the published quadrangle, together with the descriptive report, will be filed in the Bureau Archives.

Descriptive Report to Accompany

Quadrangle T 8323

Projects CS 289 W-1

Virginia

Harland R. Cravat, Chief of Field Party

5. Vertical Control:

Date started 8-2-45

Date completed 11-6-45

3rd Order levels 7 linear miles

4th Order levels 37 linear miles

Recovery:

Previous existing vertical control was pricked and recovered early in 1944 by the War Mapping Field Party. No attempt was made to determine the adequacy of the work; it was felt the field edit party would pick up any descrepencies which might exist.

New 3rd Order Level Bench Marks were pricked as the leveling progressed. New Bench Marks are:

A 295 1945

B 295 1945

C 295 1945

D 295 1945

E 295 1945

F 295 1945

G 295 1945

Photograph Nos.

The following photos were used for new fly leveling: 13010--13012--12983

Methods:

About 7 linear miles of New Third Order Levels were completed by Mr. Alfred R. Knaack, Engineering Aid, using instruments and methods as prescribed by the Division of Geodesy.

About 38 linear miles of 4th Order Levels were completed by Mr. John R. Smith, Engineering Aid. Elevations were carried by Wye Level methods to the nearest 0.01 of a foot.

Level information appears on photos in blue ink. The code letters BR prefix all spot elevations. The following system was used to segregate the closed elevations from the unclosed:

- 1.- Elevations circled indicate loop not closed on known elevation.
- 2.- Elevations underscored by a dashed line indicates the loop was closed on tidewater.
- 3.- Elevations underscored by a full line indicates the loop was closed by an approved elevation or a Bench Mark.

A few Wye Level lines less than one mile in length were not closed. These, however, are felt to be well within required limits of accuracy. No level loops were closed in excess of 2.0 feet allowable error. The average error of closure was about 0.4 of one foot.

Submitted with the photos is a layout showing the approximate positions of the spot elevations. Also, on the fly leaf of each volume is the following information: Loop, Page, Closure, Field notes checked by, Adjustment checked by, Inked on photo #, Copy checked by, and Remarks.

Submitted by,

John R. Smith John R. Smith

Approved December 6, 1945 by:

Harland R. Cravat

Photogrammetric Engineer.

Descriptive Report to Accompany

Quadrangle T 8324

Project CS 289 W-1

Harland R. Cravat, Chief of Field Party

5. Vertical Control:

Recovery:

Existing vertical control was recovered and pricked in the spring of 1944 by the war Mapping Field Party. No attempt was made to determine the adequacy of the work; it was felt the field edit party would pick up any descrepencies which might exist.

New 3rd Order Bench Marks were pricked as the leveling progressed. New Bench Marks are as follows:

H 296 1945 J 296 1945 K 296 1945

Photograph Nos:

The following nine lens photos were used: # 12912 -- # 12942 -- # 12985

Methods:

About 9.7 linear miles of new 3rd Order Levels were completed by Mr. Robert R. Kim, Photogrammetric Aid, using instruments and methods as prescribed by the Division of Geodesy.

About 60 linear miles of 4th Order Leveling was completed by Messers Thomas W. Merriken Jr., Engineering Aid, and John R. Smith, Engineering Aid. Elevations were carried by both direct leveling methods and trigonometric methods using a Berger 7" theodolite, equipped with stadia hairs, and Simons-Adams leveling rods. Loops longer than a mile were closed on either an existing Bench Mark, a previously determined elevation, or tidewater. Spurlines less than a mile in length were double rodded. (Double rodded is when a foot scale was read on the front of the rod, then a meter scale was read on the back of the rod. At the terminal point the spread between the foot and meter values was computed. If the spread exceeded one foot, the spur was re-run).

Level information appears on the photos in blue ink. The code letters NR prefix all spot elevations. The following system was used to segregate the closed elevations from the unclosed elevations:

- 1.- Elevations circled indicate the loop was not closed on a known elevation.
- 2.- Elevations underscored by a dashed line indicate the loop is closed on tidewater, or is a double rodded line.
- 3.- Elevations underscored by a solid line indicate the loop is closed on a previously determined elevation or a Bench Mark.

The average closure of the 4th Order loops was 0.7 of one foot. There were no 4th Order loops known to exceed the required limits of accuracy, except the loop with spot elevations NR 22 to NR 26 inclusive being involved. The loop was run twice, on different days, and since they agreed very closely no further investigation was made. The loop started at TA 156 and ended at tidewater. The error of closure, as computed by the field party, was 3.5 feet. Since an elevation line checked reasonably well, it was felt the tide prediction was improperly interpreted.

On the eastern junction and central part of the quadrangle is a power line. Spot elevations were requested on the power line by the Washington office. Due to the heavy growth of vegetation, a continous level line was not run; however, a few spot elevations were established where access was possible.

The error located on 12/12/45 - Closure OK-TARlo

Submitted with the photos is a layout showing the approximate positions of the spot elevations. Also, on the fly leaf of each volume is the following information: Loop, Closure, Page, Field notes checked by, Adjustment checked by, Inked on photo #, Copy checked by, and Remarks.

Respectfully submitted,

Thomas W. Merrikan Jr.

Thomas W. Merriken Jr., Engineering Aid

Approved December 7, 1945 by:

Harland R. Cravat

Photogrammetric Engineer

COMPILATION REPORT

31. Delineation:

These two quads were delineated as a unit on the two Reading Plotters, models A and B, both instruments being employed simultaneously with model B doing a majoriety of the work as pictured on page 2 of this report. Photograph coverage was complete and field inspection was complete although neither were up-to-date; field inspection was accomplished in 1945 on 1942 photos. It was used as a guide during instrument delineation which used a later set of photo coverage taken in 1945. This complicated matters in that ground features had changed in spots and judgement had to be used to delineate the more up-to-date features though contrary to field inspection information. None-the less, the entire area was delineated leaving no incomplete areas. A considerable amount of field completion work will be necessary to bring these maps up-to-date.

T-8324 was wanted on high priority and was taken from the Section with no more on the manuscript than a compilation of instrument worksheets. The second quad, T-8323, was given the usual full compilation treatment and therefore was as complete as possible with the information at hand before leaving the section.

32. Control:

Horizontal control was considered adequate for the control of the radial plot which included the two quads of this report plus six others to the north and east. For details, see the Radial Plot Report included in the Descriptive Report to accompany map T-8325.

Vertical control was not altogether satisfactory and caused much concern and delay. Possibly the primary reason for this was the hurried and haphazard field operations establishing this control under the stress of war-time conditions. The spacing of the elevations was cate adequate with level lines run along nearly all the roads in the area, with spur lines extended into an facessible areas within the road network; for details, see Field Legeling Report on pages 7 thru 10 of this report. The imediate problem was that isolated elevations or even a whole line of elevations would not agree with the instrument datum established by many lines of elevations thruout a given model. In each case the field books were checked step by step as far as possible for busts in lines; when found the situation was rectified, when not found the only thing to be done was to disregard the sour elevation or line of elevations and continue with what appeared to be the reliable datum.

33. Supplemental Data:

- a. Special Reports: None
- b. Instrument Photography (metal-mounts):

T-8323 = 22286, 287, 288, 301, 302, 303, 316, 17, 18, 19. T-8324 = 22283, 284, 285, 286, 303, 304, 305,14,15,16,17.

c. Field Inspection Photos:

T-8323 = 12982, 983, 984, 985, 13010, 011, and 012. T-8324 = 12912, 13, 14, 41, 42, 43, 44, 82, 83, 84, 85.

d. Shoreline Surveys: T-8079 and T-8080. These two quads were compiled in 1940 at 1:10,000 scale. 1:20,000 scale film positives were made of each for comparison purposes. Several differences were noted in the shoreline but no changes were made to the shoreline of these two quads because of the 10 years lapse between the compilations. The two shoreline surveys covered T-8323 only.

34. Contours and Drainage:

Instrument photography was suitable for contouring purposes and no areas of questionable contours remain. The photos were exposed in the spring when the majority of the leaves were off the trees permitting maximum vision of the ground. Some coniferous trees exist in the area but they were not in such large groups that contouring thru them was impossible. The only drawback to the instrument photography was in the assembly of the photos themselves; the junctions within each photo were not too well made which required the use of more correction curves than normal with better calibrated photos.

35. Shoreline and Alongshore Details:

The shoreline was indicated on the field inspection photos, and it was used as a guide during instrument delineation. The inspection was out-of-date at the time of compilation and will require close attention during field edit to bring it up-to-date. Shoal lines are shown along the Chickahominy River as instrument delineated.

36. Offshore Details:

Lone trees and groups of trees growing in the river have been positioned by the plotting instrument and are symbolized and labled on the manuscript. This matter is brought to the attention of the Edit Section since the compilation photos used were over three years old and the condition of these trees could have changed.

37. Landmarks and Aids: None recommended.

Chart Letter 103(52) recommends the deletion of the control for Future Surveys: None. 2 here land marks and the

2 how land marks and the retention of 3 aids.

39. Junctions:

All existing junctions are in agreement; no quads exist to the south. On the other three sides, the quads were compiled simultaneously with the two of this report and have been made to agree at the junctions during the normal compilation procedure. The quade to the south has been compiled and the junction checked during review 40. Horizontal and Vertical Accuracy:

These maps are believed to meet mapping standards in both respects, barring serious bulls caused by conditions mentioned in side-heading 32 of this report. The scale of these two maps is 1:20,000 and the contour interval is 20st. See Field Edit Report for accuracy test results.

41. Compilation Procedure:

To meet special time limits, quad T-8324 was delineated first and released without the normal finishing and reviewing steps being applied following compilation. The other quad, T-8323, received the full treatment. No short-cuts were taken in any of the delineation or compilation phases actually applied to either map.

46. Comparison with Existing Maps:

USGS Quad Map "TOANO, VA", 1:62,500, 1930 edition.

47. Comparison with Nautical Charts:

JAMES RIVER - JAMESTOWN ISLAND TO JORDON POINT. No.530, 1:40,000, September 1940.

- 48. Geographic Name List: Follows.
- 49. Notes for the Hydrographer: None
- 50. Compilation Office Review: Follows for T-8323, only.

Submitted by:

William D. Harris

Cartographer-Photogrammetric

Approved and Forwarded by:

Steroescopic Tapping Section

Photogrammetric Engineer

M-2623-12

PHOTOGRAMMETRIC OFFICE REVIEW

T. 8323

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)
ALONGSHORE AREAS
ALONGSHORE AREAS (Nautical Chart Data) ALONGSHORE AREAS (Nautical Chart Data)
,
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Aids to navigation17. Landmarks18. Other alongshore physical features19. Other along -
shore cultural features
PHYSICAL FEATURES
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic
instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
features
CULTURAL FEATURES
27. Roads 28. Buildings 29. Railroads 30. Other cultural features
BOUNDARIES
31. Boundary lines 32. Public land lines
MISCELLANEOUS
33. Geographic names34. Junctions35. Legibility of the manuscript36. Discrepancy
overlay
40. James Beel
Reviewer Louis Review Bertish or Unit
41. Remarks (see attached sheet) Stereoscopic litapping Section
Photogrammetric Engineer
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The
manuscript is now complete except as noted under item 43.
Compller Supervisor

43. Remarks:

	GEOGRAPHIC NAMES	Or No. Or	D Line Co.	* /	/_	O Caide of A	No. O.	ilos /	, /
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	Barrets Ferry Bridge				<u>.</u>				2
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	Bethany Church Big Marsh Point								5
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Nettles Creek									·	3
Old Ferry Roz	<u>d</u>									4
Old Neck										5
Old Nack Creek										6
Oldfield										7
Parsons Creek						·				8
Parsons Islan	<u>d</u>					-				9
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River Road				· 			43,			12
Rustic.				·				<u> </u>		13
Sunken Marsh										14
The Row			· 							15
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Watts Point	<u>-</u>								ļ	18
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	Venterville Ro	<u>2d</u>									5
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1	Chickahomine	K	ive	<u> </u>							8
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	Colby Swamp	· · ·		<u></u>	ļ					, ,	11
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FIELD EDIT REPORT Quadrangle T-8323 (Brandon) Project CS-289 J. C. Sammens, Chief of Party

51. Methods. -- All roads were ridden out to check their classification, to investigate questioned areas, to reclassify buildings and to visually check contours and planimetry.

Shoreline delineation was visually inspected with a skiff running close inshore.

Landmarks recommended for charting were viewed from the water and identified on the photographs.

Offshore features that could not be identified were located by cuts from triangulation stations or eccentrics thereof.

Fixed aids to navigation were located unless a check revealed they had not been rebuilt since having been located by triangulation in 1938.

Field edit information is shown on one double weight matte print used as a field edit sheet, cut into four sections and numbered 1, 2, 3 and 4, one discrepancy print, two 9 lens, 1-20,000 scale photographs #13011 and 22285 and nine single lens photographs #50-0-61, 63, 74, 76, 78, 138, 140, 142 and 144.

- 52. Adequacy of Compilation. -- The map compilation is near adequate and will be complete with the application of the field edit data.
- 53. Map Accuracy. -- No horizontal or vertical accuracy test was required to be made for this map. However, from visual inspection and short plane table traverses the accuracy appears to be well within specifications.
 - 54. Recommendations. -- None offered.
- 55. Examination of proof copy. -- No one was requested to examine a proof copy of this map.

Placement of geographic names was brought to the attention of the Field Editor by residents living along the Chickahominy River. All residents contacted declare the Federal and State maps of Chickahominy River shows Watts Point and Big Marsh Point as being misplaced. A thorough investigation was

made and the placement of the names as they should be is shown on photograph #22285. A list of reliable residents for references is shown on the back of that photograph.

The name "Walkers Store" has become extinct. Local residents declare the name is no longer used.

The name "Blanks Store or Blanks Tavern" is misplaced. The name does not apply to the area shown and local information declares it never has. An enclosed county map shows the correct placement of the name.

Respectfully submitted,

Elgan J. Jenkins

Cartographic Survey Aid

Approved and Forwarded: 5 February 1953

Capt. U.S.C. & G. S.

Officer in Charge

FIELD EDIT REPORT Quadrangle T-8324(NORGE) Project CS 289 W-1

H. A. Paton, Chief Of Party

51METHODS

All roads and trails were ridden or walked over to check thiller classification, to investigate questioned areas, to reclassify buildings and to visually check contours and planimetry.

Shoreline delineation, shoreline features and offshore features were inspected wherever roads permitted access.

Reliable local information was relied upon to verify the number of piers along Chickahominy River.

All deletions, additions and corrections have been either shown on the field edit sheet or cross referenced to the photographs. A legend, explaining the colored inks used, is shown on the field edit sheet.

Field edit information is shown on 1 double weight matte print, used as a field edit sheet, cut into four sections and numbered 1, 2, 3 and 4, 1 discrepancy print and 4 1-20,000 scale photographs numbered 22302, 22317, 36072 and 36073.

52 ADEQUACY OF COMPILATION

The map compilation is adequate, with the exception of a few additions and corrections, and will be complete with the application of the field edit data.

53 MAP ACCURACY

The horizontal positions of the mapped details appear to be good. Plane table traverses in several areas checked well with all shown features.

Two vertical accuracy tests were made, directly on the field edit sheet, using standard plane table profile methods.

Accuracy test # 1, made near the S.W. corner, tested 43 points with no error greater than \(\frac{1}{2} \) a contour interval being found.

Accuracy test # 2, made near the N.E. corner, tested 39 points 97% of which were within $\frac{1}{2}$ a contour interval or better and 3% with an error of $\frac{1}{2}$ to 1 contour interval.

One test point was allowed for each ridge or bottom with all other test points being directly upon the contours.

53 MAP ACCURACY CONT'D.

The accuracy tests, combined with visual inspection of contours, throughout the quadrangle, indicates the vertical accuracy as being excellent.

A few incorrect elevations were noted on the map. Part of these errors were from compilation and part from the original field work. These errors appear to have caused little trouble and the contours have been checked in these areas. (See item # 32 of the Compilation Report.)

54 RECOMMENDATIONS None

55 EXAMINATION OF THE PROOF COPY

No one, within the limits of the quadrangle, was asked to examine a proof copy of the map. However, Mr. V. D. McManus, Engineer, of 108 Washington Street, Williamsburg, Va., is interested in all maps published near Williamsburg. It is suggested that he be sent a copy of the map for examination.

No discrepancies were noted in geographic mames.

Respectfully submitted by,

Elgan I. Jenkins Oct. 13, 1952

Approved and forwarded 21 October 1952

For Hubert A. Paton, Comdr. U.S.C. & G.S. Officer in Charge

15m

VERTICAL ACCURACY TEST # 1

TOPOGRAPHIC MAPPING

Summary & Abstract of Vertical Accuracy Test

Project No. CS 289W-1 Quad. No. T-8324	Quad. NameNORGE
Method of Testing Planetable Profile	
Tested by E. T. J. Date 10/2/52	Evaluated by <u>E. T. J.</u>
Contour interval 20 ft. 0.06M.M. allowable	e shift at 1-20,000
map or manuscript scale.	

Total number of points tested

100 % of points within ½ contour interval or better

43 Test points correct within ½ contour interval

0 Test points in error between ½ and full contour interval

0 Test points in error over full contour interval

Test Elev.		Error	Error after shift	Remar	ks	Test Elev. 71	Map Elev. 74	Error 3.0	Error after shift	Remarks
79	80	1.0	0.0			77	74 80	3.0	2.0	Good Expres
80	72	8.0	7.0	Con.	Corr.	81	81	0.0		
63	60	3.0	0.0			78	80	2.0		
42	40	2.0	0.0			66	60	6.0	0.0	
36	36	0.0				28	3 8	10.0	⁷ 8.0	
39	40	1.0	0.0			48	48	0.0		
65	60	5.0	0.0	i		76	76	0.0		
80	70	10.0	10.0	Con.	Corr.					
65	60	5.0	1.0							
54	40	14.0	10.0	Con.	Corr.					
26	26	0.0								
43	40	3.0	0.0							
59 82	60	1.0	0.0							•
82	80	2.0	1.0						,	
89	88	1.0	1.0						,	
81	80	1.0	0.0							
76	76	0.0								
79	80_	1.0	0.0			Ш		<u> </u>		
78	80	2.0	1.0							
73	70	3.0	2.0					<u> </u>	ļ	
74	80	6.0	5.0	Con.	Corr.				<u> </u>	
<u>89</u>	89	0.0							<u> </u>	
76	80	4.0	2.0			Ш	<u> </u>	ļ	<u> </u>	
78	85	7.0		Con.	Corr.	<u> </u>		ļ	<u> </u>	
81	80	1.0	0.0			Щ		<u> </u>	<u> </u>	
83	83	0.0				<u> </u>	ļ		 	
75	80	5.0	3.0						ļ	
81_	_ 60_	1.0	0.0		•	<u> </u>	-	<u> </u>	•	
58	60	2.0	0.0			 			 	
36	36	0.0		ļ <u></u>		!	ļ	ļ		
22	20	2.0	0.0			₩			 	
12	12	0.0		<u> </u>		₩		•		
15	20 40	4.0	8:8			₩		ļ	ļ	
36	40	4.0				₩	ļ		 	
60	60	0.0		<u> </u>		Ш	<u> </u>	<u> </u>	<u> </u>	M-2875-12

VERTICAL ACCURACY TEST # 2 TOPOGRAPHIC MAPPING

Summary & Abstract of Vertical Accuracy Test

Project No. CS289W-1 Quad. No. T-8324 Quad. Name NORGE
Method of Testing Planetable Profile
Tested by E. T. J. Date 10/3/52 Evaluated by E. T. J.
Contour interval 20 ft. 0.6 M.M. allowable shift at 1-20,000
map or manuscript scale.
39 Total number of points tested
97 % of points within ½ contour interval or better
38 Test points correct within \frac{1}{2} contour interval
1 Test points in error between 1 and full contour interval
O Test points in error over full contour interval

Test Elev.	Map Elev.	Error	Error after shift	Remarks	Test Elev.		Error	Error after shift	Remarks
102	100	2.0	1.0		86	78	8.0		Con. Corr.
110	110	0.0			87	80	7:0	6.0	
101	100	1.0	1.0			120	1.0	0.0	
104	104	0.0			113	113	0,0		
99	100	1.0	0.0						
74	75	1.0	0.0						
78	80	2.0	0.0						
79	80	1.0	0.0						
65	60	5.0	0.0		<u> </u>				-
48	48	0.0							
67	60	7.0	0.0						
80	80	0.0							
86	86	0.0							
_77	80	3.0	0.0						
62	60	2.0	0.0		 				<u> </u>
65	60	5.0	0.0		Щ			-	
_73	80	7.0	0.0		Щ		1		
87	87	0.0			II				
82	80	2.0	1.0				<u> </u>		
81	80	1.0	0.0					ļ	
62	60	2.0	0.0		Щ				
64	60	4.0	0.0			1			
80	71	9.0	4.0				ļ	ļ	ļ
<u>87</u>	80	7.0	4.0						
<u>96</u>	100	4.0	4.0				ļ		
78	80	2.0	0.0		 			<u> </u>	
68	60	8.0	0.0		 		ļ		
58	58	0.0			 				<u></u>
82	60			Con. Corr.	₩			ļ	
90	80	10.0	8.0	11 11	 		 	<u> </u>	
96	100	4.0	3.0		 		 	ļ	
100	101	1:0	1.0	<u> </u>	 		ļ		
JOS	102	U_0						ļ	
98	100	2.0	10					<u> </u>	
89	80	9.0	8.0	Con. Corr.				ļ	M-2875

COMMERCE	
DEPARTMENT	CITY TOYOU O :

VIEW SECTE PHOTOGRAM METRIC

NOMBLOAKING KINDSKOR LANDMARKS FOR CHARTS

KONSTEXMENTED TO BE DELETED

Providence Forge, Virginia

I recommend that the following objects which have (KASALINI) been inspected from seaward to determine their value as landmarks be CARICANING (deleted from) the charts indicated.

E. T. Jenkins The positions given have been checked after listing by

							·P	Jack C. Sammons	uninons	g	Chief of Party.	á
				<u> </u>	POSITION					140	THAI	
STATE	VIRGINIA		LATI	LATITUDE	LONG	LONGITUDE		METHOD OF LOCATION	DATE		CHARTS	118
CHARTING	DESCRIPTION	SIGNAL	5	D.M.METERS	-	D, P. METERS	DATUM	SURVEY No.	LOCATION	OEMAH OEMAH	нечто А Р Р	9
BARN	White Barn, E. Shore,		37 15.B		76 52.3		N.A.	Un- known	Un- known	×	530	
HOUSE N. CHY	N. Chy of house on N. Bank James R. near Tomahund Cr.		37 15.1		76 53.8			Trian- gulation	1938	H	530	
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Form 567 April 1945

OF COMMERCE **DEPARTMENT**

EODETIC SURVEY U. S. COAST AND

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TAXBIKATEK ENWEIGHT TO BE CHARTED

I recommend that the following objects which have (hagazarazkapeen inspected from seaward to determine their value as landmarks be

Providence Forge, Virginia Jan. 23 , 19.

E. T. Jenkins charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

STATE				<u>a</u>	POSITION	_		METHOD		THA	TMAIN	
			LATI	LATITUDE*	LON	LONGITUDE #		LOCATION	DATE	E CH		CHARTS
CHARTING NAME	DESCRIPTION	SIGNAL	٥	D.M. METERS	•	D. P. METERS	DATUM	SURVEY No.	LOCATION	HARBO	M2110	AFFECTED
STA CK	Brick stack of old brick plant	nt	60 60		76	, ,	N.A.	Photo				
		Tambo	7 26	15.70	20 24	45057 36	i		1953	N	-[200
CUPOLA	R. near Tomahund Creek	2	37 15	368.0	76 (76 51 1297 h	₽	ę	=	_,		S
LT. FL.	ŀ						2	Trienga-				7
Gr.FI.	↓		CT 10		£C 0)	177	<u>.</u>	182100	1930	×		230
G.40	RICHIE WHARE EX.		37 16	523.0	76 59	39 866	: Q	Theod	1953	H		530
R LS	BACHELOR POINT LT.		37 17	1755.0	76 59	59 609	e O	Triangu-	1938	*	-	530
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Review Report T-8323 Topographic Map November 12, 1953

62. Comparison with Registered Topographic Surveys .-

T-1337a	1:20,000	1873-75
T-1391b	6	1875
T-8079	1:10,000	1943
T-8080	fi	h

This map supersedes these surveys for interior detail. The shoreline on T-8079 and T-8080 is shown in greater detail because of the scale difference and should be used for nautical charting purposes. The map manuscript should be used for recent cultural changes along shore.

63. Comparison with Maps of Other Agencies.-

USGS Toano Quadrangle 1:62,500 1930 No extensive differences were noted.

64. Comparison with Contemporary Hydrographic Surveys .-

H-7610	1:10,000	1948
H-7714	Ħ	1946-47
H-7021	Ħ	1944

Stumps and snags shown alongshore on the hydrographic surveys are not visible on the photographs.

Several substantial duck blinds shown on the map manuscript are not shown on the hydrographic surveys.

65. Comparison with Nautical Charts .-

Chart No. 530 1:40.000 1940

Landmark, Cupola, should be substituted for charted landmark, House (N. Chy). See Chart Letter 103(53).

The wreck charted at Ferry Point and the snag north of Barrets Ferry Bridge could not be found by the Field Editor.

66. Adequacy of Results.-See Field Edit Report, T-8324, for results of vertical accuracy test in this vicinity. This map complies with the National Standards of Map Accuracy.

Reviewed by:

C. Theurer

T-8323

APPROVED

Chief, Review Branch Div. of Photogrammetry

Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch Division of Charts

D)

Chief, Div. of Coastal Surveys

Review Report T-8324 Topographic Map November 5, 1953

- 61. General Statement. This map is one of six topographic quadrangles that were compiled on the Reading Plotter, given a partial review, smooth drafted and forwarded to the Army Map Service for publication in February 1952. This map was not published. A final copy of this map manuscript after field edit and review will be forwarded to the Army Map Service so that the preliminary copy can be corrected.
- 62. Comparison with Registered Topographic Surveys .-

T-1337 a	1:20,000	1873-75
T-8074	1:10,000	1943
т-8075	11	1943

This map supersedes these surveys for interior detail. The shoreline on T-8074 and T-8075 is shown in greater detail because of the scale difference and should be used for nautical charting purposes. The map manuscript should be used for recent cultural changes alongshore.

The wreck shown on T-8075, south of Barrets Ferry, is not visible on the photographs.

63. Comparison with Maps of Other Agencies .-

USGS Toano Quad. 1:62,500 1930

No extensive differences were noted.

64. Comparison with Contemporary Hydrographic Surveys .-

H-7021	1:10,000	1944
H-7714	11	1946-47

Hydrography was added to the map manuscript from these surveys. No discrepancies were noted.

65. Comparison with Nautical Charts .-

Chart No. 530 1:40,000 1940

Landmark, Barn (S.Gab), should be deleted. See Chart Letter 103(53). Add vertical clearance for Barrets Ferry Bridge.

66. Adequacy of Results.-See Field Edit Report for results of accuracy test on this quadrangle. This map conforms with the National Standards of Map Accuracy.

Charles Theurer

APPROVED

Div. of Photogrammetry

Chief, Nautical Chart Branch Div. of Charts

togrammetry Chief, Div. of Coastal

see report of T-8319 for application of hydrography to T-8323