

8175

8175

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Air Photo. Compilation
Field No. 75	Office No. T-8175
LOCALITY	
State	Virginia
General locality	Eastern Shore
Locality	FRANKTOWN
194 2	
CHIEF OF PARTY	
Lieut. Comdr. Francis L. Gallen	
Lieut. Comdr. Kenneth G. Crosby	
LIBRARY & ARCHIVES	
DATE October 2, 1945	

DATA RECORD

T- 8175

Quadrangle (II): Franktown

Project No. (II): CS-278-C

Field Office: Salisbury, Md. Chief of Party: F. L. Gallen

Compilation Office: Tampa, Fla. Chief of Party: K. G. Crosby

Instructions dated (II III): 3/4/42 Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 11/24/42

Reported to Nautical Chart Section: 11/42

Reviewed: 6/25/43 Applied to chart No. Date:

Redrafting Completed: 11/20/43

Registered: 9/28/45 Published: 2/7/44

Compilation Scale: 1:20,000 Published Scale: 1:21,680

Scale Factor (III): 1:00

Geographic Datum (III): N.A.1927 Datum Plane (III): M.S.L.

Reference Station (III): ~~TANKARD~~
TANKARD, 1942.Lat.: ~~37°26'25".918 (799.0 m)~~ Long.: ~~75°50'37".494 (921.7 m)~~ Adjusted
37°24'03".052 (941.1 m) 75°53'33".309 (819.3 m) UnadjustedState Plane Coordinates (VI): no plane coordinates computed.
Maryland system. O.K.
J.N.S.

X =

Y =

Military Grid Zone (VI) A

PHOTOGRAPHS (III)

	<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
(1)	8562✓	4/13/42	12:07		-0.20
	8529✓	"	11:02		+1.20
	8530✓	"	11:04		+1.15
(11)	8531✓	"	11:06		+1.10
	8547✓	"	11:40		+0.90
	8548✓	"	11:42		+0.85
	8549✓	"	11:44		+0.80

Tide from (III): Predicted tides (1) Upshur Neck, South End, Virginia
 (2) Nassawadox Creek, Franktown, Virginia
 Mean Range: (1) 4.4 feet Spring Range: (1) 5.3 feet
 (2) 1.8 feet (2) 5.2 feet
 Camera: (Kind or source) U.S.C. & G. S. nine lens (focal length 8 1/2 inches)

Field Inspection by: Cravat, H. R. Jylha, A.M. date: 1942
 Photogrammetric Aids

Field Edit by: Wendell Bever, Photogrammetric Aid date: Dec. 1942

Date of Mean High-Water Line Location (III): April 13, 1942.

Projection and Grids ruled by (III) Washington Off. date: 9/17/42

" " " checked by: date:

Control plotted by: L.H. Zollars, Photo. Aid date: 9/23/42

Control checked by: C.L. Baily, Photogrammetric Aid date: 9/23/42

Radial Plot by: Tampa Office Personnel date: 9/28/42

Detailed by: Pauw, Cornelius A.J. Senior Engineering Aid date: 10/11/42

Reviewed in compilation office by: L.C. Bonham, Photo. Aid date: 11/42
 J.H.S. Billmyer, Princ. Engr. Drafts.

Elevations on Field Edit Sheet
 checked by: Wendell Bever, Photogrammetric Aid date: 12/42

STATISTICS (III)

Land Area (Sq. Statute Miles): 45.35

Shoreline (More than 200 meters to opposite shore): 55.20

Shoreline (Less than 200 meters to opposite shore): 31.50

Number of Recoverable Topographic Stations established: 8

Number of Temporary Hydrographic Stations located by radial plot: 28

Leveling (to control contours) - miles: 55.5

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

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

Remarks:

This sheet was part of a new template replot consisting of sheets T-8171, T-8172, T-8174, T-8175 resulting from errors indicated by the horizontal accuracy test and during the reviews of these sheets, and resulted in a replottting and redetailing of the north and east parts of the sheet.

COMPILATION REPORT
TO ACCOMPANY
SHEET NO. T-8175
Franktown Quadrangle

CONTROL

Control on this sheet was adequate, there being four triangulation stations within the detail limits and three stations which fall on the borders. There was, however, some doubt as to the correct picking of these stations on the field photographs. Considerable difficulty was encountered in reconciling radial points on this sheet, with those on Sheet No. T-8177, which were obtained from a different main radial plot. Station Tongue 3 is apparently in error, and was not held in detailing. It is suspected that an error in picking was made on field photograph.

RADIAL PLOT

The discussion of the main radial plot which included this sheet was made a part of the Descriptive report for Sheet No. T-8173.

The detailer made a complete independent check of the radial plot, and was able to make some corrections which partially overcame the difficulty of matching the control of the adjoining Sheet No. T-8177.

While making this radial plot check, numerous additional radial points were intersected.

T-8175 was included in a new template plot in the Washington office resulting in redetailing of part of T-8175 (north and east sides)

DETAILING

Photographs Nos. 8547 and 8562 were of excellent scale and nearly 90% of the sheet was compiled from these two photographs. The balance was taken from photograph No. 8529.

The numerous radial points and excellent scale and clearness of photographs made detailing of this sheet very easy.

Field inspection was adequate in the areas inspected. Additional field classification of woodland areas and roads is necessary to complete this sheet. Areas which were not covered by the field inspector have been noted on a special overlay which is to accompany this sheet.

Geographic names were placed upon an overlay sheet to avoid obliteration of topographic details.

AIDS TO NAVIGATION

One light at the entrance to Nassawadox Creek has been plotted from a sextant fix; its geographic position is listed upon Form 567, which has been made a part of this report.

HYDROGRAPHIC CONTROL

There are eight monumented topographic stations along the shores, as well as three triangulation stations, which are conveniently located for use by a hydrographic party.

Twenty-eight temporary stations have been located by the radial plot, suitable for the control of hydrographic surveys.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLE

This sheet compared favorably with the Eastville Quadrangle, compiled by the Corps of Engineers, U. S. Army, with the following exceptions: Jacobus point is high ground (20 feet and over) and not marsh as shown on the Army's compilation; several small marsh islands off-shore have undergone considerable change or disappeared entirely.

COMPARISON WITH NAUTICAL CHART

This sheet and Nautical Chart 1223 published March 1932 on a scale of 1:80,000 compare favorably. With the exception of the disappearance of a small off-shore island, no important changes can be discerned. Due to difference in scale, minor discrepancies are not distinguishable.

Respectfully submitted,

Cornelius A. J. Pauw

Cornelius A. J. Pauw
Senior Engineering Aid

Forwarded by:

Kenneth G. Crosby
Kenneth G. Crosby,
Chief of Party....

FIELD EDIT REPORT
 Quadrangle T-8175
 Project CS-278-C
 F. L. Gallen, Chief of Party

1. The land area covered by this compilation includes four necks, Occohannock, Church, Wilsonia and Old Town. The shoreline along the outer extremities of the points is characterized by small bluffs ranging from a few feet up to 20 feet in elevation. Very little marshland is present. Wooded and cultivated land is found equally scattered over the area. Points and tributaries are quite numerous.
15. Bridge classification was carried out in accordance with the instructions.
17. Political boundaries were obtained from maps issued by the ^{Bureau of the Census for} Virginia State Roads Commission and were verified in the field, ^{by the field edit party.}
18. Geographic names were taken from a special report CS-278-C submitted by A.J. Wraight, Photogrammetric Aid.
46. Field edit consisted of visual inspection of the area. Where necessary, taped distances were used in location. All additions, deletions and corrections were made on the map manuscript and transferred to the smooth copy after the field work had been accomplished.

The inking of the field edit sheet was done in accordance with the following scheme:

<u>FEATURES</u>	<u>COLORS</u>
Additions, elevations, classifications	Black
Water culture	Blue
Deletions	Green
Political boundaries	Purple

47. The location of the detail is believed to be complete.

The horizontal accuracy test (see sheet attached with this report on the tabulation of test points) is not within the requirements of the instructions. There appears to be an error in the plotting of the Triangulation Station TANKARD - 1942, on map manuscript T-8175.

Sheet partially replotted & redetailed in Washington office.

For vertical accuracy test refer to sheet T-8174. Both sheets were contoured by A. M. Jylha, Photogrammetric Aid.

Submitted by

Wendell Bever Jr.
 Wendell Bever,
 Photogrammetric Aid

Approved by:

F. L. Gallen
 F. L. Gallen, Chief of Party

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TESTS FOR HORIZONTAL ACCURACY
QUADRANGLE NO. T-8175
PROJECT CS-278-C

This test consists of a traverse between Triangulation Station Exmore(1942) and Triangulation Station Tankard(1942). The traverse is 10.80 miles in length and contains 22 test points; 5 of which are within the boundaries of this quadrangle. The traverse closure is one part in 11,970 and a discrepancy of 1.451 meters was adjusted through the traverse. The test points are referred to in the computations as P. P. (Photograph point number) and the test points are scaled from the map manuscript and referred to M. M. No.

TABULATION OF TEST POINTS

Description of Point	Test Point Number	Lat.	Long.	Difference in mm.
Inter. of road & road, 60 degrees	P. P. No. 18	37-27-13.2	75-52-759.25	
	M. M. No. 18	37-27-17.0	75-52-767.3	.448
Inter. of road & road, 80 degrees	P. P. No. 19	37-26-529.5	75-52-1461.5	
	M. M. No. 19	37-26-534.2	75-52-1469.8	.477
Inter. of road & road, 90 degrees	P. P. No. 20	37-25-1105.0	75-53-659.9	
	M. M. No. 20	37-25-1113.4	75-53-661.8	.436
Inter. of road & road, 45 degrees	P. P. No. 21	37-25-653.3	75-53-898.5	
	M. M. No. 21	37-25-663.8	75-53-899.9	.530
Inter. of road & road, 80 degrees	P. P. No. 22	37-24-1732.3(17.3)	75-53-1226.6(248.8)	
	M. M. No. 22	37-24-1739.0	75-53-1239.9	.744

All test points are considered well-defined points. However, it may be noted that the map manuscript error of test points Nos. 21 and 22 exceeds the allowable error of .5mm. And the number of test points within the allowable error is 60% and not 90% as required by the Instructions.

Submitted by:

Charles Hanavich per T-8175
Charles Hanavich
Sr. Photo. Aid

Approved by:

F. L. Gallen
F. L. Gallen,
Chief of Party, U. S. C. & G. S.

*T-8175 partially replotted &
redetailed 7/19/43*

LANDMARKS FOR CHARTS

**TO BE CHARTED
TO BE DELETED**

STRIKE OUT ONE

Tampa, Florida

May 2, 1948

10

I recommend that the following objects which have ~~(been removed)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing

Henry Cowdr. Keane & Co. Dry Goods

Chief of Party.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloat aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

GEOGRAPHIC NAME LIST FOR T-8175

Barlow Creek	Warehouse Creek
Bayford	Waterford Point
Bay Side Road	Wellington Neck
Birdsnest	West House Creek
Bridgetown	Wilsonia Neck
Church Creek	
Church Neck	
Church Point	
Elliotts Neck	
Franktown	
Great Neck	
Holly Grove Cove	
Holts Creek	
Holts Neck	
Honeymoon Island	
Horse Islands	
Hungars Wharf	
Hungar Creek	
Jacabus Creek	
Jacabus Point	
Johnsontown	
Kellam Field	
Long Point	
Machipongo	
Martins Siding	
Masden Gut	
Mattawoman Creek	
Nassawadox Creek	
Nassawadox Point	
Occoahannock Neck	
Old Town Neck	
Paraplane Cove	
Sea Side Road	
Reedtown	
Pennsylvania Railroad	
Shadyside	
Shooting Point	
Silver Beach	
South Island	
Sparrow Point	
Taylor's Wharf	
The Saltworks	
Treherneville	
Vaucluse Point	

T-8175

No. 1

Remarks

Decisions

1		373758
2		"
3		373759
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		374758
13		"
14	<i>abnd airport</i>	"
15		X 373758
16		374759
17		" USGB
18		"
19		" USGB
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8175

FRANKTOWN quadrangle

No. 1	Name on Survey	A.	B.	C.	D	E	F	G	H	K	
	Holt Creek	✓		✓							1
	Holt Neck	✓		✓							2
	Martins Siding	✓		✓							3
	Shadyside	✓		✓							4
	Old Town Neck	✓		✓							5
	Mattawoman Creek	✓		✓							6
	Reedtown	✓		✓							7
	Hunger Wharf	✓		✓							8
	Barlow Creek	✓		✓							9
	H neymoon Island	✓		✓							10
	Taylor Wharf	✓		✓							11
	Birdsnest	✓		✓							12
	Franktown	✓		✓							13
	Kellam Field	✓		✓							14
	Tyreherneville	✓		✓							15
	Wilsonia Neck	✓		✓							16
	Hunger Creek	✓		✓							17
	Jacobus Creek	✓		✓							18
	Johnsontown	✓		✓							19
	Machipongo	✓		✓							20
	Bridgetown	✓		✓							21
	Church Neck	✓		✓							22
	Great Neck	✓		✓							23
	Vaucluse Point	✓		✓							24
	Sparrow Point	✓		✓							25
	Paraplane Cove	✓		✓							26
	Waterford Point	✓		✓							27

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Remarks

Decisions

1		374759
2		"
3	Pending with USGB	" U.S.G.B.
4		"
5		"
6		"
7		"
8		"
9		"
10		" USGB
11		" "
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		USB
21		Railway Guide
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-8175

No. 2

Name on Survey

Masden Gut	✓		✓							1
Jacobus Point	✓		✓							2
Westerhouse West House Creek	✓		✓							3
Church Creek	✓		✓							4
Church Point	✓		✓							5
Elliotts Neck	✓		✓							6
Bayford	✓		✓							7
Shooting Point	✓		✓							8
South Island	✓		✓							9
Nassawadox Creek	✓		✓							10
Nassawadox Point	✓		✓							11
Occohannock Neck	✓		✓							12
Silver Beach	✓		✓							13
Long Point	✓		✓							14
Warehouse Creek	✓		✓							15
Horse Islands	✓		✓							16
The Saltworks	✓		✓							17
Wellington Neck			✓							18
Holly Grove Cove	✓		✓							19
Chesapeake Bay	✓		✓							20
Pennsylvania R.R.	✓		✓							21
U.S. Highway No. 13			✓							22
State Highways Nos. 1	600,	609,	610,	616,	617,	618,	619,	622,	624	23
	625,	626,	627,	628,	629,	652				24
										25
										26
										27
										28

Names made known by
by W. H. K.

June 29-43

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RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.
published quadrangle at 1:20,000 scale
Black and white cloth-mounted copy of the ~~map~~
~~manuscript~~. This copy is filed to preserve
original survey detail shown on the manuscript
at 1:20,000 scale which may not have been shown
on the published sheet. For ~~positions~~ boundaries,
woodland, ~~marsh~~, and ~~water courses~~, refer to the
published quadrangle for the finally adopted
~~positions~~ outlines.

Descriptive Report.

Filed in the Photogrammetric Section - ^{Nautical Charts}
~~Survey~~ Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing Unit.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Original celluloid manuscript

Copies of specifications and all instructions
to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

~~Special report on field work by Commander K. T.
Adams, 1944.~~

Special report on office work by B. G. Jones, 1944:

Season's report on field work by Commander F. L.
Gallen, 1944.

Season's report on field work by Commander R. L.
Schoppe, 1944.

Delivered to the Army Map Service in accordance
with the contract

Film negatives and film positives of the color
separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the
first edition of the quadrangle with notes in red
indicating changes desirable at the next printing.

Notes in red
the next printing.

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S. 278C, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, drive-ways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templates) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the ~~Baltimore~~ Tampa Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8175

FRANKTOWN QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy Refer to page 4 of this descriptive report for a copy of the results of the horizontal accuracy test over this area. Two out of the five tested points were in error in excess of 0.5mm. The maximum displacement was 0.774mm. A new radial plot was made after this test was checked. (See next page)

Refer to the field edit sheet for quadrangle T-8174 for the nearest vertical accuracy test.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-350	1:20,000	1851
T-2663	1:20,000	1904

Eastville, Va.	1:62,500	1938	U. S. E.
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Comparison with Nautical Charts Nos. 1222 & 1223

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

Only minor corrections were apparent during comparison of the chart with the manuscript.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Due to the poor results of the horizontal accuracy test in this area, a new plot was laid in the Washington office and the portion of the quadrangle in error was redetailed accordingly. The horizontal accuracy test points were used as additional control in the new plot.

The radiol plot for this quadrangle together with T8171, T8172, and T8174 was relaid in this office. The North and East sections of this quadrangle were redetailed. B.G. Jones

Reviewed 6/25/43 By Craigton A. DeMay
under direction of D. H. Benson *per J. N. S.*

Inspected by B. G. Jones *B.G. Jones*

Examined and approved:

Robert W. Tucker
Chief, Surveys Branch
Nautical Chart

K.T. Adams
Chief, Topography Section

J.S. Gordon
Chief, Div. of Charts

Raymond B. Egan
Chief, Div. of Coastal Surveys
Acting