

8170

8170

Form 504 Rev. June 1941 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
<i>Air Photographic</i> <del>Plaster Profile</del> <del>Hydrographic</del>	Sheet Survey No. T-8170 (Field) Quadrangle Nandua Creek
VIRGINIA NANDUA CREEK QUADRANGLE N3737.5-W7552.5/7.5	
LOCALITY	
State _____ Virginia	
General locality _____ Chesapeake Bay	
Locality _____ Nandua Creek	
NANDUA CREEK QUADRANGLE	
N3737.5-W7552.5/7.5	
194.2	
CHIEF OF PARTY	
Lieut. Comdr. Kenneth G. Crosby	
Lieut. Comdr. Wm. D. Patterson	

U. S. GOVERNMENT PRINTING OFFICE 315551

September 19, 1945

Military Grid Zone (VI) "A"

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8533	13 April 1942	11:11 A.M.	1:20,000	+ 1.6 Ft.

Tide from (III): Predicted tides, Pungoteague Creek, Chesapeake Bay, Virginia

Mean Range: 1.7 Ft.                      Spring Range: 2.0 Ft.

Camera: (Kind or source) U.S.C. & G.S. Nine Lens (Focal length  $8\frac{1}{2}$  inches.)

Field Inspection by: S. C. Dionisio, Photo. Aid                      date: May 1942

Field Edit by: *C. C. Fryer, photo. Aid*                      date: *Nov. 1942*

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

Projection and Grids ruled by (III) Washington Offc.                      date:

"                      "                      "                      checked by:                      "                      "                      date:

Control plotted by: C. L. Bailey, Photo. Aid                      date: 9-22-42

Control checked by: L. H. Zollars, Photo. Aid                      date: 9-22-42

Radial Plot by: Tampa Office Personnel                      date: 9-29-42

Detailed by: Bortis, H. G., Photogrammetric Aid                      date: 10-2-42

Reviewed in compilation office by: Giles, J.A.,                      date: 10-9-42  
Prin. Photo. Aid

Elevations on Field Edit Sheet  
checked by: *C. Harvick*

date: *Dec. 1942*

### STATISTICS (III)

Land Area (Sq. Statute Miles): 1.5

Shoreline (More than 200 meters to opposite shore): 5.7 stat. mrs.

Shoreline (Less than 200 meters to opposite shore): 5.7 " "

Number of Recoverable Topographic Stations established: 5

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles: 0

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:



COMPILATION REPORT  
TO ACCOMPANY  
SHEET NO. T-8170  
Nandua Creek Quadrangle

CONTROL

Although no triangulation station fell on the sheet, the radial points, whose positions were determined by the main radial plot, were sufficient to control the detailing.

RADIAL PLOT

The main radial plot for this sheet is discussed in the compilation report for sheet T-8173

DETAILING

The detailing was done from nine-lens photograph No. 8533 whose center fell outside the tracing limits of the sheet. The photograph was clear and the scale was good.

Field inspection was sufficient and satisfactory for the office detailing.

SUPPLEMENTAL DATA

There has been no supplemental data used in the compilation of this sheet; the entire detail being obtained from photographs.

LANDMARKS AND AIDS TO NAVIGATION

There are two non-floating aids that fall on the sheet. They have not been plotted as they were located by sextant angles which appear to be in error. These aids are to be relocated in the field.

These aids are listed on the picking card as Pungoteague Light and Pungoteague Beacon. Pungoteague Light is listed in the Coast Pilot and Light List as Pungoteague Creek Light. Pungoteague Beacon was probably formerly Hack Neck Shoal Light.

*Both <sup>located</sup> ~~2nd~~ Lights by field edit.*

HYDROGRAPHIC CONTROL

Five recoverable topographic stations suitable for the control of hydrographic surveys fall on the sheet. The description and scaled geographic positions are shown on "Description of Recoverable Hydrographic or Topographic Station" cards, (Form 524).

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

A comparison was made with the Onancock Quadrangle, Virginia, published by the Corps of Engineers, U. S. Army, on a scale of 1:62,500.

No differences of any importance were noted in the comparison.

*Compiled from C&GS. Nautical Charts and Soils maps.*

COMPARISON WITH NAUTICAL CHARTS

In comparing the sheet with U. S. C. and G. S. chart 1223 more detail and shoreline indentations are shown on the sheet than on the chart.

Woody<sup>✓</sup> Island and a small islet to the west of Scarbrough Island shown on the chart do not appear on the photographs so have not been shown on the photo compilation. These islets have evidently been washed away.

GEOGRAPHIC NAMES

On this project Geographic names are investigated by the field party, so it is not possible for the compilation office to make a list of geographic names and their authorities.

Respectfully submitted,

*Harl G. Bortis*

Harl G. Bortis,  
Photogrammetric Aid

Forwarded by:

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

FIELD EDIT REPORT  
QUADRANGLE T-8170  
Project CS-278-C  
F. L. Gallen, Chief of Party

1. The land area on this sheet is comprised of a series of necks and points which extend out into the Chesapeake Bay. Marshland is pre-dominant with wooded and cultivated areas about evenly distributed.
10. The locations of South Marsh, Middle Marsh, and Woody Island, which were not shown on the compilation sheet but are shown on nautical chart No. 1223, were investigated in the field. These islets were found to have been washed away. In addition, this was verified by local fishermen.
15. The bridge classification was carried out in accordance with the instructions.
17. <sup>The location of the</sup> Political boundaries were <sup>furnished by the Census Bureau</sup> ~~obtained from maps issued by the Virginia State Roads Commission~~ and were verified in the field.
18. Geographic names were taken from a special report CS-278-C submitted by A. J. Wright, Photogrammetric Aid.
46. All additions, deletions and corrections were made on the map manuscript and transferred to a smooth copy after the completion of the field edit work.

The inking of the map manuscript was done in accordance with the following scheme:

<u>FEATURES</u>	<u>COLORS</u>
Additions, bench marks, wye level elevations	Black
Deletions	Green
Drainage features	Blue
Political boundaries	Purple

47. The position and amount of detail on this map manuscript is complete and accurate.
48. Horizontal accuracy tests were run in quadrangles T-8172 and T-8174. There are no contours on this sheet; the maximum elevation was found to be 4 feet.

Submitted by

C. C. Fryer J. H. G.  
C. C. Fryer,  
Photogrammetric Aid

Approved by

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



Chart letter 603  
7-8170 6031942

LANDMARKS FOR CHARTS  
PERMANENT AIDS TO NAVIGATION

November 10, 1942

I recommend that the following objects which have ~~(been inspected)~~ 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.

# R.I. Gallen

Chief of Party:

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating 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-8170

Back Creek

Butcher Creek

Hacks Neck

~~Miley's Point~~ Milbys Point

Nandua Creek

The Sandhill

Chesapeake Bay



T-8170

## Remarks.

## Decisions

1		376758
2		"
3	Pending with USGB	" US.G.B.
4	" " "	" US.G.B.
5	Washed away, accord to par. 10, Desc. Report-	"
6	" " " " "	"
7	It is Milbys Pt. on both name sheet and in report on names.	"
8	See remark, Page 2 of Desc. Report	377758
9		USGB
10	officially adopted spelling	
11		376758
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# GEOGRAPHIC NAMES

Survey No. T-8170

NANDUA CREEK quadrangle

Name on Survey

On Chart  
No.

A,

B,

C,

D

E

F

G

H

K

On previous survey  
No.

On U. S. quadrangle  
Maps

From local  
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

Name on Survey	A,	B,	C,	D	E	F	G	H	K	
Nandua Creek ✓										1
Beck Creek ✓										2
Hacks Neck ✓										3
Butcher Creek ✓										4
<del>South Marsh</del>										5
<del>Middle Marsh</del>										6
Milbys Point ✓										7
<del>Woody Island</del>										8
Chesapeake Bay ✓										9
Accomack County ✓										10
The Sandhill ✓										11
Lee (political district) ✓										12
State Highway 632 ✓										13
Pungoteague (political district) ✓										14
										15
										16
										17
										18
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										22
										23
										24
										25
										26
										27

Handwritten note: Lee Neck 1/25/43

## 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 ~~political boundaries~~, woodland, ~~march~~, ~~and~~ ~~swamp limits~~, refer to the published quadrangle for the finally adopted positions.

Descriptive Report.

### Filed in the Photogrammetric Section - Surveys 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.



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

This quadrangle, together with similar adjoining maps produced under Project C.S.278-Q 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 templets) 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-8170

NANDUA CREEK 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 the Descriptive Report for quadrangle T-8172 for a copy of the results of the nearest horizontal accuracy test.

As all of the land area within the limits of this quadrangle is less than 20 ft. above mean-sea-level (the maximum elevation is 4 ft.), a vertical accuracy test was not required.

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-307	1:20,000	1850
T-2654	1:20,000	1903
Onancock	1:62,500	1919 U.S.E.

Comparison with Nautical Charts No. 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 changes in shoreline were apparent during comparison of this chart with the quadrangle.

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

Only minor corrections were necessary during the review of this quadrangle.

Reviewed 3/8/43 By Ray E. Atkins  
under direction of D. H. Benson *per J.H.S.*

Inspected by B. G. Jones *B.G. Jones 8/30/45*

Examined and approved:

Charles Peice  
Chief, ~~Survey~~ Branch  
CHART DIVISION

K.T. Adams  
Chief, Topography Section

J.S. Borden  
Chief, Div. of Charts

*Acting* Raymond E. Evans  
Chief, Div. of Coastal  
Surveys