Original ✓

8139

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Air Photographic Topographic

Field No. 40 Office No. T-8139

LOCALITY

State: Maryland & Virginia

General locality: Cheaspeake Bay (Western Shore)

Locality: Piney Point, Potomac River

1943

CHIEF OF PARTY
F. L. Gallen
Fred. L. Peacock

LIBRARY & ARCHIVES

DATE: December 28, 1944

B-1870-1 (1)

8139

Diag. 77-4

Form T-1

DATA RECORD

T-
8139

Quadrangle (II): Project No. (II):

Piney Point 7½' Quadrangle
~~Piney Point 15' Quadrangle~~ Chief of Party: CS-278-A

Wm. D. Patterson
~~Compilation~~ Party No. 1 Chief of Party:

Baltimore Field Office Comdr. Fred. L. Peacock
Instructions dated (II III): Copy filed in Descriptive Report No. T- (VI)

March 4, 27; June 5, 24,
August 13, September 4) 1942
Completed survey received in office: 2/22/43

Reported to Nautical Chart Section:

Reviewed: 5/7/43 Applied to chart No. Date:

Redrafting Completed: 8/21/43

Registered: 12/22/44 Published: 1/19/45

Compilation Scale: Published Scale: 1:31,680

Scale Factor (III): 1:20,000

Geographic Datum (III): Datum Plane (III):
N. A. 1927 Mean Sea Level

Reference Station (III):
Caffee, 1919, r.1934

Lat.:	Long.:	Adjusted ~~Unadjusted~~
38° 12' 19.585" 603.9m ~~(1246.1m)~~	76° 34' 38.959" 947.9m ~~(511.9m)~~	xxxxxxxxxx

State Plane Coordinates (VI): (Maryland, Single Zone)

X = 921,416.77 feet Y = 135,793.78 feet

Military Grid Zone (VI) A & B

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
Nine Lens				
8898 & 8899	4/15/42	1:31 & 1:32p.m.	1:20,000	1.8' above M. L. W.
8903 - 8906 Inc.	4/15/42	1:37 - 1:43p.m.	1:20,000	1.8' above M. L. W.
8916 - 8919 Inc.	4/15/42	2:02 - 2:06p.m.	1:20,000	1.8' above M. L. W.
Single Lens				
AHX 7-61 to AHX 7-64 Inc.	4/20/38	Unknown	1:20,000	Unknown.
AHX 7-128 - AHX 7-142Inc.	4/20/38	Unknown	1:20,000	Unknown
AHX 10-19 - AHX 10-25Inc.	4/24/38	Unknown	1:20,000	Unknown

Tide from (III): Tables of Predicted Tides, reference station Washington, D.C. with time correction for Piney Point, Maryland

Mean Range: 1.6 ft. Spring Range: 1.9 ft.

Camera: (Kind or source)U.S.C.&G.S., nine lens camera (focal length 8¼") Single lens 9" x 9" contact prints obtained from Soil Conservation Service, U. S. Department of Agriculture.

Field Inspection by: Hor. Control--D. L. Greene date: May-July, 1942
Shoreline--J.C.Lajoye;R.D.Trace August, 1942
Cultured Features--T.A.Zary;G.E.Varnadoe Oct.1942 to Feb.,1943

Field Edit by: Orvis N. Dalbey date: March 1943 April

Date of Mean High-Water Line Location (III):

Same as date of nine lens photographs.

Military & State
Projection and/Grids ruled by (III) C.H.R. date: 10/20,29/42 11/3/42

" " " checked by: J.O.N. & C.L.B. date: 11/5,13/42

Control plotted by: Charles L. Bailey date: 11/13/42

Control checked by: Joseph Steinberg date: 11/26/42

Radial Plot by: Joseph Steinberg & J. Edward Deal, Jr. date: 12/15/42

Detailed by: Harold R. Brooks date: 1/12-30/43

Reviewed in compilation office by: Wm. H. Van Loon date: 2/10-17/43

Elevations on Field Edit Sheet checked by: L.G.Chambers date: 3/23/43

STATISTICS (III)

Land Area (Sq. Statute Miles): 38 square Statute Miles

Shoreline (More than 200 meters to opposite shore): 25 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 37 Statute Miles

Number of Recoverable Topographic Stations established: 22 Stations

Number of Temporary Hydrographic Stations located by radial plot:

none

Leveling (to control contours) - miles: 16.1 Statute Miles

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: Contours by G. E. Warnadoe, (N.E.Corner) Nov., 1942-Feb., 1943
T. A. Zary

FIELD INSPECTION REPORT T-8139

1. DESCRIPTION OF AREA.

There is a small land area south of the Potomac River in the southwest corner of the quadrangle and it is all low and flat and below the 20-foot contour. North of the Potomac River there is a strip of low, flat land adjacent to the river and then a quick rise to an upland in the vicinity of the 40-foot contour. This upland is considerably cut-up by stream valleys, especially near the edge of the upland, and the ridges between the valleys are flat to rolling on top with an average elevation of about 100 feet and with a maximum elevation of slightly over 120 feet. The stream valleys and streams are characteristic of this area, the valleys being U-shaped and having a gradual slope in the lower part and becoming V-shaped and steeper near the head, and with perennial streams in the bottom of the larger valleys. The main drainage is south and southwest to the Potomac River, with a few streams along the northern and eastern edge of the quadrangle draining north and east into streams flowing into the Saint Marys River.

A considerable part of the low lying land is cleared and farmed. At the higher elevations less land is cleared and farmed, and the cleared land is usually on the tops of the flatter ridge tops where the soil and drainage are good. The remainder of the area is covered with a mixture of pine and deciduous trees and brush, with pine trees predominating on the ridges and deciduous trees in the valleys.

There are no extensive marsh areas but patches of marsh are found along the streams at the lower elevations. The area labelled "swamp" to the east of "Blake Creek" (old U. S. G. S. map) is a low area where the water stands in wet weather and is not a true swamp.

2. COMPLETENESS OF FIELD INSPECTION.

It is believed that the field inspection is complete on all details.

3. INTERPRETATION OF PHOTOGRAPHS.

The photographs are typical for this area.

4. & 5. Same as for T-8146.

6. CONTOURS AND DRAINAGE.

Same as for T-8114.

Stereoscopic positions of streams in narrow valleys checked well in the field but the positions of streams in wide, flat-bottomed valleys sometimes had to be changed in the field where they were checked by plane-table traverse or by a tie to identifiable detail.

There were no large vertical traverse closures while working on this quadrangle and most closures were less than 1 foot.

7 to 16. Same as for T-8148.

17. BOUNDARY MONUMENTS AND LINES.

The Piney Point Torpedo Testing Range boundaries have been shown on the field photographs. The Political District boundaries will be shown on the Map Manuscript.

18. Same as for T-8114.

Approved and forwarded:
F. L. Gallen,
Chief of Party.

Submitted by,
G. R. Fish for GRF
G. R. Fish, Lieut. C. & G. S.

26 Control:

Ten U. S. Coast & Geodetic Survey Triangulation Stations within the limits of this survey and fourteen triangulation stations just beyond the limits were used as control. Those triangulation stations within the limits are:

Caffee, 1934
Chadwick, 1908, M.S.F.S
Hewitt, 1934
Lowell, 1908, M.S.F.S.
Piney Point Light House, 1858
Piney Point Water Tank, 1942
Ragged Point LightHouse, 1901
Russell, 1908, M.S.F.S.
Shehan, 1908, M.S.F.S.
Wall, 1908, M.S.F.S.

Those triangulation stations just beyond the limits are:

Abell, 1942
Boundary Monument Va. No. 19, 1929
Cherry, 1908, M.S.F.S.
Coombs Firing Point Rear Range
Cupola, 1908, M.S.F.S.
Firing Point Front Range, 1919
Franklin, 1932
Grapevine, 1932
Great Mills Lookout Tower, 1942
Herbert, 1932
Jacobson, 1942
Nigger, 1932
Straits, 1908, M.S.F.S.
4000yd. Rear Range

27 Radial Plot:

A report covering the radial plot of War Mapping Project CS-278-A, of which Survey T-8139 is a part, has been previously submitted. Filed in the photogrammetric section

28 Detailing:

Nine lens photographs were used for detailing this map manuscript. The 9" x 9" single lens photographs were used as supplementary reference in cases where definition on the nine lens photographs was poor. The stereoscope was used in the interpretation of additional marsh area and drainage. Field inspection was complete as to elevations, contours and buildings. Cultural detail and shoreline were in some instances incomplete, but in general were well covered by field inspection.

29 Supplemental Data:

Previous surveys T-804, T-1103, T-1104, T-1581, T-2598, T-2748 and T-2808 cover the detailed portion of this survey. Copies of these surveys were not available to this compilation office.

30 Mean High Water Line:

The Mean High Water Line was detailed in accordance with the field inspection, making use of the stereoscope to interpret any portions not clearly discernible to the compiler.

31 Low Water & Shoal Lines:

The Low Water areas were detailed in accordance with the field inspection. The Shoal areas on the nine lens photographs were indistinct in most cases. 9" x 9" single lens soil conservation photographs were used for this delineation.

32 Details Offshore from the High Water Line:

A sandbar appears East of Medley Point in St. George Creek and a spoils bank is located Southwest of Straits Point in the Potomac River.

33 Wharves and Shoreline Structures:

Wharves and Shoreline Structures were detailed after a careful study had been made of the office photographs, in conjunction with the field inspection data.

34 Landmarks and Aids to Navigation:

No Landmarks appear upon this Survey; but there are three aids to Navigation. They are:

Piney Point Light House, 1858 F.W.
Ragged Point Light House, 1901 Fl. w., 10 sec.
Piney Point Creek Channel 2, Fl. r. ev. 5 sec.

Piney Point Light House and Ragged Point Light House are also triangulation stations and are listed as such under Control, Paragraph 26.

Piney Point Creek Channel 2 is also listed as a recoverable topographic station in Paragraph 35. Form No. 567 is submitted herewith, giving the recommended position of this aid to navigation as established by sextant fix.

35 Hydrographic Control:

There are twenty-one recoverable Topographic stations within the limits of this survey which may be used for future hydrographic surveys. They are:

35 Hydrographic Control:

Abe	Farm	Red
Bell	Joe	Sang
Blow	Log	See
Broke	Pine	Shell
Corn	Piney Point Creek Channel 2	Tall
Crab	(Fl. r. ev. 5 sec.)	Tiny
Fair	Ragged Point 4	West
	Rain	

Descriptions for these stations are submitted herewith on Form No. 524.

37 Azimuth Reference Monuments:

One Azimuth Reference Monument is within the limits of this survey. It is: Hewitt, 1934, R.M. 3 Azimuth

Description of this Azimuth Reference Monument is submitted herewith on Form No. 524.

38 Geographic Names:

A list of Geographic Names has been prepared to accompany this map manuscript.

39 Discrepancy Overlay:

A discrepancy overlay has been prepared to accompany this map manuscript. On it are noted requests for additional information needed to make this map manuscript complete. Questions concerning correct interpretation, comments and notes such as are deemed likely to be of assistance during the field edit have been included. Also shown, for the records of the Baltimore Compilation Office, are the names or numbers of bench marks.

40 Horizontal Accuracy:

Horizontal accuracy of the location of well-defined and less well-defined points of detail is believed to be within the limits set forth in instructions for Project CS-278; Paragraph 54, dated March 4, 1942.

41 Recommendation for Future Survey:

The planimetric detail as presented on this map manuscript is believed complete, but is subject to field edit for corrections; additions, and deletions.

42 Junctions:

The following junctions have been made with survey No. T-8139:

To:the North: Survey No. T-8442 (Junction of detail points only)

To the East: Survey No. T-8138 (Planimetric detail only)

To the South: Survey No. T-8146 (Planimetric detail only)

To the West: Survey No. T-8140 (complete)

43 Remarks:

Survey No. T-8139 encompasses an area of which approximately five sevenths is land. An excellent description of the terrain is included in Paragraph 1 of the Field Inspection Report. In the general locality of this survey, the shoreline is extremely ragged due to the considerable amount of sizeable streams emptying into the main drainage. The shoreline presents some bluffs and long stretches of sandy beach with numerous summer colonies distributed throughout its length.

44 Comparison with Existing Topographic Quadrangles:

Because of scale differences, no accurate comparison of this survey with the U. S. Geological Survey Quadrangle of this area is practicable. An approximate comparison reveals a change in the shoreline at Poplar Hill Creek and Herring Creek. The mouth of each stream has broadened considerably and is mostly marsh ground, whereas formerly both streams had a narrow channel through hard ground connecting the body of the stream with the Potomac River. At Piney Point Creek most of the land between the Creek and the Potomac River is now marsh and in addition a spoils bank is now located on the River shore.

45 Comparison with Nautical Charts:

In comparing this map manuscript with Chart No. 557 issued August, 1938; the same change is noted at Herring Creek as mentioned in Paragraph 44 above. The island at the entrance to Blake Creek is now a marsh island and a large mud bank has been built up on the Creek side.

Respectfully submitted,
February 20, 1943

Harold R. Brooks
Harold R. Brooks
Senior Engineering Aid

Map Manuscript, Discrepancy Overlay and Descriptive Report Reviewed by:

William H. VanLoon
William H. VanLoon
Jr. Photogrammetric Aid

Compilation of Map Manuscript Supervised by:

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Eng.

and

J. Edward Deal Jr.
J. Edward Deal, Jr.
Asst. Photogrammetric Eng.

Approved & Forwarded,
February 22, 1943.

Fred. L. Peacock
Fred. L. Peacock
Officer-in-Charge
Baltimore Field Office

FIELD EDIT REPORT TO ACCOMPANY
DESCRIPTIVE REPORT
QUADRANGLE T-8139

46. The field edit was done on the field edit sheet and transferred to the smooth sheet in the office while inking.

Inking was done in accordance with the following scheme:

Features	Colors
Additions, bench marks, wye level elevations and crosses	Black
Deletions	Green
Contours, elevations by topo.	Brown
Drainage features	Blue
Civil boundaries	Violet

47. The position and amount of detail on this sheet is believed to be accurate and complete.

48. The horizontal accuracy test was run in quadrangle T-8138, T-8116 and Quadrangle T-8139. (See report submitted by Lt. G. R. Fish for project CS-278A)

The vertical accuracy test is the subject of a report submitted by Lieut. G. R. Fish on Project CS-278-A. Filed in photogrammetric section.

11. All aids to navigation were checked by planetable. The positions for two beacons and one light are submitted on form 567.

17. Due to the controversial nature of the Maryland-Virginia boundary, the exact location was left to be determined in the Washington Office.

Approved and forwarded:

F. L. Gallen.

F. L. Gallen,
Chief of Party.

Respectfully submitted by,

Orvis N. Dalbey Jr.

Orvis N. Dalbey,
Photogrammetric Aid.

Form 567
(Rev. April 1942)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~LANDMARKS FOR CHARTS~~
AIDS TO NAVIGATION

TO BE CHARTED } STRIKE OUT ONE
~~TO BE DELETED~~ }

Myrtle Beach, S. C. March 26, 19 43

I recommend that the following objects which have (have not) 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.

F. L. Gallen - - - - - - - - - *Chief of Party.*

GENERAL LOCALITY: POTOMAC RIVER NAME AND DESCRIPTION	POSITION					METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM						
	° ′	D. M. METERS	° ′	D. P. METERS							
St. George Creek Channel Bn. #4	38 08	89	76 30	232	N.A. 1927	Plane-table	3-24-43		x		557
St. George Creek Channel Bn. #5	38 08	213	76 30	159	N.A. 1927	Plane-table	3-24-43		x		557
Piney Point Creek Channel Light 2	38 08	792	76 32	8	N.A. 1927	Sextant	4-5-43		x		557

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.

U. S. GOVERNMENT PRINTING OFFICE 16—27869-1

LIST OF GEOGRAPHIC NAMES

Recommended	Disputed
Long Pond	Black Beard Pond
Rices Pond	Long Pond
Brownsville	Chingville
St. Mary's River	(Great Mills Run
	(Rich Neck Run

LIST OF GEOGRAPHIC NAMES

Undisputed

Allbright Point
Belvedere Creek
Big Duke Creek
Biscue Point
Blake Creek
Calloway Creek
Coles Point Neck
Coombs Point
Factory Mill Pond
Flood Creek
Glebes Branch
Herring Creek
Hodgson Point
Johns Creek
Lane Beach
Lane Creek
Lane Pond
Lennie Creek
Little Duke Creek
Locust Grove Cove
McKays Beach
McKay Cove
Medley Point
Morgan Point
Mulberry Field Creek
Piney Point Beach
Piney Point Creek
Piney Point Lighthouse
Piney Point Proving Ground
Poplar Hill Creek
Pustey Creek
Ragged Point
Ragged Point Beach
Redman Branch
Russell Point
Sheehan Point
St. George Creek
Stinking Point
Straits Point
Streams End Point
Swan Point
Talton Branch
Tall Timbers
Tall Timbers Cove
Valley Lee
Western Branch
White Point Beach
Woodland Branch

?

Bailey Prong
Springer Creek
Town Branch
Smoots Pond
Ragged Point Pond

T-8139

No. 1

	Remarks	Decisions
1		
2		381765
3		"
4		"
5		"
6	Omit? Show as "NAVAL RESERVATION"	"
7		"
8		381764
9		381765
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23	See name sheet for application	"
24	" " "	"
25	" " "	"
26		"
27		"

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GEOGRAPHIC NAMES

Survey No. T-8139

PINEY POINT quadrangle

No. 1 Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Piney Point		(point)								1
Piney Point		(village: spell point in full)								2
Piney Point Lighthouse										3
Piney Point Creek										4
Piney Point Beach										5
Piney Point Proving Ground		Not to be Shown								6
St. George Creek										7
Straits Point										8
Swan Point										9
Medley Point										10
Hodgson Point										11
Morgan Point										12
Russell Point										13
Streams End Point										14
Sheehan Point										15
Locust Grove Cove										16
Coombs Point										17
Albright Point										18
Biscue Point										19
Tall Timbers	(note that P.O. is at some distance from settle-									20
Tall Timbers Cove	ment on beach: indicate separately)									21
Herring Creek										22
Bailey Prong	Too small									23
Springer Creek										24
Town Branch	Not shown									25
Valley Lee										26
Woodland Branch										27

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T-8139

No. 2

	Remarks	Decisions
1		381765
2		"
3		"
4		"
5		"
6	Name OK if feature now exists	"
7		"
8		"
9		"
10		"
11		381766 USGB
12		"
13		" USGB
14		" "
15		" "
16	Name OK if feature now exists	"
17		"
18		382765
19		"
20		"
21		"
22		"
23		381764 USGB
24		382765 "
25		"
26		"
27		"

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GEOGRAPHIC NAMES

Survey No. T-8139

No. 2

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Redman Branch										1
Glebe Creek Branch										2
Little Duke Creek										3
Big Duke Creek										4
~~Mckay~~ McKay Cove										5
Smoots Pond	No									6
Lane Creek										7
Lane Pond										8
Lane Beach										9
McKay Beach										10
Coles Neck		✓								11
Stinking Point		✓								12
Rices Pond		✓								13
Blackbeard Pond		✓								14
Ragged Point		✓								15
Ragged Point Pond	No	✓								16
Ragged Point Beach		✓								17
Calloway Creek										18
Lennie Creek										19
Johns Creek										20
Factory Mill Pond										21
Western Branch										22
St. Marys River										23
Chingville										24
Blake Creek										25
Talton Branch										26
Mulberry Field Creek										27

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No. T-8.39

No. 3

	Remarks	Decisions
1		382765
2		"
3		"
4		382766
5		"
6		
7		USGB
8		"
9		County Map, 1929
10		
11		"
12		"
13		"
14		
15		Road Maps
16		"
17		"
18		"
19		
20		
21		
22		
23		
24		
25		
26		
27		

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GEOGRAPHIC NAMES

Survey No. T-8139

No.3

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Poplar Hill Creek										1
Pustey Creek										2
Belvedere Creek										3
Flood Creek										4
White Point ~~Gr~~ Beach										5
										6
Potomac River										7
St. Marys County										8
Island No. 9	(political subdivision): St. George Island on compilation, but 1929 county map --Md. Geol. Survey-- has Island No. 9 only)									9
										10
Valley Lee No. 2										11
Bay No. 8										12
Leonardtown No. 3										13
Westmoreland County	(Va.)									14
State Highway No. 5	(Md.)									15
" No. 244	"									16
" No. 249	"									17
" No. 250	"									18
										19
										20
St George Harbor										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved by L. Heck on 5/31/43

M 234

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, ~~marsh, 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-A, 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. (This photography was supplemented by the use of single-lens photographs. 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, driveways, 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 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 "blueline" 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-8139

PINEY POINT 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 See the Descriptive Report for T-8116 for a copy of the horizontal accuracy test comparisons performed on T-8139. This test was accepted as satisfactory. The vertical accuracy test was performed by contouring the same area on two field photographs, 8918 and 8919. This test fulfills the requirements.

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- 804	1:20,000	1859-1904	
T-1103	1:20,000	1868-1904	
T-2748	1:20,000	1905	
"Piney Point"	1:62,500	1901	U.S.G.S.

Comparison with Nautical Charts Nos. 557 and 558

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 small differences in shoreline exist.

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.

Reviewed 5-7-43 By Peter Kerr per H.E.Q

under direction of D. H. Benson

Inspected by B. G. Jones BGJ

Examined and approved:

Robert W King
Chief, Surveys Branch

L.B. Gordon
Chief, Div. of Charts

K.T. Adams
Chief, Topography Section

G Rude
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8139

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
8-22-45	557	B.A. Andros	Before After Verification and Review Partially Applied
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.