8101 8101

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. ---- Office No. T-8101

LOCALITY

State Maryland & Delaware

General locality Chesapeake Bay (Eastern Shore)

Locality Selbyville (Ceean City)

1942

CHIEF OF PARTY
Wm. D. Patterson
Fred. L. Peacock

LIBRARY & ARCHIVES

DATE September 18, 1944

8-1870-1 (1)

no landonko letter

DATA RECORD

T- 6101

Quadrangle (II):

Solbyville (72 minute Quad.) Coom City (15 minute Quad.)

Field Office:

War Mapping Field Party No.1

Compilation Office:

Baltimore Field Office

Instructions dated (II III):

March 4, 27; June 5, 24;)

Project No. (II):

CS-278-B

Chief of Party:

Liout. Condr. Wm. D. Patterson

Chief of Party:

Comdr. Fred. L. Pencock

Copy filed in Descriptive Report No. T-

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: 3/13/43

Applied to chart No.

Redrafting Completed:

Registered:

Published:

Compilation Scale:

Published Scale: 1:31,680

1:20,000 x 0.984p1:19,680

Scale Factor (III):

Geographic Datum (III): N.A. 1927

Datum Plane (III): Kean Sea Level

Reference Station (III): Norman, Dol. 1932

Lat.: 38° 27' 03.986" 122.9m Long .: 75° 13' 56.935" 1380.6m Adjusted (74.3m) Boundahouses (1727.2m)

State Plane Coordinates (VI):

Del. coordinate system (single zone)

X = 552,749.67Y = 16433039Md. coordinate system (Single zone)

X=1,306,168.28

Y= 229,878.22

Military Grid Zone (VI) A

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
Nine Lens 8714 8715 8716 8751 8752 Single Lens	1\v1\\ta 1\v1\\ta 1\v1\\ta 1\v1\\\ta 1\v1\\\ta	1:17p.m. 1:18p.m. 1:20p.m. 1:29p.m. 1:30p.m.	1:20,000 1:20,000 1:20,000	0.3° below Mean Low Water 0.3° below Mean Low Water 0.3° below Mean Low Water 0.3° below Mean Low Water 0.3° below Mean Low Water
3-251 3-250 3-219 3-218	Unimosen n n	Uniknown a a a	Enlarged from 1:60,000 to 1:20,000	Unknown a a a

Tide from (III): Tables of Predicted Tides, reference station Sandy Hook with time correction for Ocean City

Mean Range:

Spring Range: Lal feet

Camera: (Kind or source)

U. S. Coast & Geodetic Survey, nine lene camera (focal length θ_0^{1n}) Commorcial contract, with special single lens Acrial Mapping Camera (focal length). Field Inspection by:

War Happing Field Party No.1
Lieut. Comm. Wm. D. Patterson in charge
Field Edit by: Wendell Bever, Photo Aid

Spring & Summer, 1942 date: 9-1.1993

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

Same as date of nine lens photographs

Projection and Grids ruled by (III) Wash. Office. date: 6/1/12

" " checked by: Washington Office date: 7/13/42

Control plotted by: William H. VanLoon date: 7/18/12

Control checked by: Joseph Steinberg date: 7/19/12

Radial Plot by: J. Edward Deal, Jr. & Joseph Stoinberg date: 7/20/42

Detailed by: Henry P. Eichert & John N. Reinoldi date:8/21 = 9/1/12 9/30 - 11/11/12

Reviewed in compilation office by: William H. VanLoon date: 12/7 -12/1/1/2

Elevations on Field Edit Sheet checked by: Louis Levin, Photogrammetric Aid

date: 1/43

STATISTICS (III)

Land Area (Sq. Statute Miles): 55.8

Shoreline (More than 200 meters to opposite shore): 13 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 17.5 Statute Miles

Hydrographic and
Number of Recoverable/Topographic Stations established: 2 Stations

Number of Temporary Hydrographic Stations located by radial

11 Stations

Leveling (to control contours) - miles: 52

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 4-office Report.

26 Control:

Three U. S. Coast & Geodetic Survey Triangulation Stations and two traverse stations within the limits of this survey, and two stations beyond the limits, were used for the control of secondary points and detail. Those within the limits are:

Norman, 1932

Bishop Tank, 1942 Same as Solbyville Tank
Selbyville Tank (Del.) 1942

Photo. Pt. No. 6, Traverse Station "N"

Photo. Pt. No.11, Traverse Station "X"

Traverse stations "N" and "X" were established by the field party because of the scarcity of control in this area. These stations were held during the radial plot and in the establishing of the radial points for detailing.

The following triangulation stations, used for the control of secondary points and detail on this map manuscript, fall outside the detailed limits:

Frankford Tank (Del.) 1942 Pine, 1934

27 Radial Plot:

The radial plot for this map manuscript is part of a combined plot covering several surveys. A report covering the combined plot for War Mapping Project CS-278, sub-project CS-278-B, has been previously submitted.

28 Detailing:

Nine lens photographs were used for detailing the greater part of the area of the map manuscript. Single lens photographs were used, together with the nine lens photographs, in cutting in additional points for detailing in areas where there was insufficient overlap of nine lens photographs.

Excepting contours and elevations, only partial field inspection was available. The stereoscope aided in the interpretation of marsh boundaries and additional drainage.

29 Supplemental Data:

There are no previous surveys of this area available for comparison with Survey No. T-8101.

30 Mean High Water Line:

The field inspection of the high water line was partial in most cases and was shown on the single lens photographs. In cases where the location of the high water line was not indicated by field inspection, it was interpreted by the compiler by means of stereoscopic examination.

31 Low Water & Shoal Lines:

There are no low water lines indicated by field inspection within the

31 Low Water & Shoal Lines: (cont'd)

limits of this survey. One shoal area has been shown in accordance with the field inspection photographs.

32 Details Offshore from the High Water Line:

Hen and Chicken Island, Margots Island, and eight other unnamed marsh islands appear offshore, in Saint Martin River. These offshore features have been detailed in accordance with the field inspection.

33 Wharves & Shoreline Structures:

There are no shoreline structures or wharves visible on the photographs.

34 Landmarks & Aids to Navigation:

No data are available to the compilation office concerning landmarks or aids to navigation for charting in the area of this survey.

35 Hydrographic Control:

There are two Recoverable Hydrographic and Topographic Stations within the limits of this survey which may be useful to future Hydrographic parties. They are:

> Cat Qil

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

In addition to the above stations, suitable points have been pricked by the compiler on the photographs and radially plotted on the map manuscript for future use as hydrographic signal sites. The descriptions of the points appear on the discrepancy overlay.

38 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 in the course of the field edit, have also been included.

39 Horizontal Accuracy:

Horizontal accuracy of the location of points 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.

40 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.

41 Junctions:

The following satisfactory junctions have been made with survey No. T-8101:

To the East: Survey No. T-8100

To the South: Survey No. T-8126

To the West: Survey No. T-8102

There is no contemporary survey to the North.

யு 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 that the marsh area along St. Martin River as detailed on this manuscript is smaller in area than as shown/on the U. S. G. S. Quadrangle.

45 Comparison with Nautical Charts:

In a visual comparison of this map manuscript with Chart No. 1220, issued May, 1938; no marked differences from the charted detail were noticed.

Respectfully submitted,

Sr. Photogrammetric Aid

Map Manuscript, Discrepancy Overlay, and Descriptive Report Reviewed by:

Pr. Photogrammetric Aid

Compilation of Map Manuscript Supervised by:

Joseph Steinberg

Pr. Photogrammetric Aid

and

J./Edward Deal, Jr. Pr. Photogrammetric Aid

Examined & Approved,

Jr. Topographic Engineer

Approved & Forwarded,

red. L. Peacock

Officer-in-Charge Baltimore Field Office

FIELD EDIT REPORT Quadrangle T-8101 Project CS-278- B F. L. Gallen, Chief of Party

- 1. This quadrangle is comprised of high land equally divided between cultivated and heavily wooded areas. The terrain is undulating with elevations increasing crossing the sheet from east to west. Small areas of marsh are present bordering the Saint Martin River.
- 15. Bridge classification was done in accordance with instructions.
- 17. Political boundaries were obtained from maps issued by the Maryland and Delaware State Roads Commissions and were verified in the field.
- 18. Geographic Names were taken from the special report for Project Cs-278-B.
- 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 later transferred to the smooth copy after the field work had been accomplished.

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

<u>FEATURES</u>	COLORS
Additions, bench marks,	
and elevations	B l ac k
Deletions	Green
Drainage features	Blue
Political boundaries	Purple
Test contour	Orange

- 47. The position and amount of detail on this manuscript is complete and accurate.
- 48. A report on the horizontal accuracy tests is included with this report.

A vertical accuracy test was run in the vicinity of Lat. 38°27' and Long. 75°14'. The test contour is in orange, the black dots showing 20 foot elevations ascertained in the field.

Submitted by

Wendell Bever, Photogrammetric Aid

Approved by

H. Hallen

F. L. Gallen, Chief of Party

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TESTS FOR HORIZONTAL ACCURACY QUADRANGLE NO. T-8101 PROJECT CS-278-B

This test consists of a traverse from triangulation station FENWICK ISLAND(1932) to point X. The traverse was then back run over the same hubs to the starting point. The total length of the traverse, one way, is 6.09 statute miles. There is, also, a short spur, which was run only one way. The closure of the loop was.677 meters or 1 in 29,000. No adjustment was made. Tape No. 3442 was used on the forward run and tape No. 3447 was used on the back run.

The primary purpose of this traverse was to furnish the compiling office with two control points. The geographic positions of traverse points N and X were furnished to the compiling office, and the other test points were retained for test points. Nine other test points are available for test purpose, I of which are within the boundaries of this quadrangle. The test points are referred to in the computations as P.P.No. (photograph point number) and the test points as scaled from the map manuscript are referred to as M. M. No.

TABULATION OF TEST POINTS

Description of Point	Test Point Number	Lat.	Long.	Difference inmmm.		
Inter. road & road, 30 degrees	P. P. No. 10 M. M. No. 10	38-29-1175.6 38-29-1181.0	75-07-1267.9 75-07-1277.8	.564		
Control Point	P. P. No. 11 M. M. No. 11	38-30-15.8	75-07-1323.5			

Test point No. 10 exceeds the allowable error of .5mm. Since this test point is the only one within the limits of this sheet, descriptive report T-8100 should be consulted for the remaining tabulation of test points for this traverse.

test points for this traverse. accuracy test on T8100 accepted as ratio foctory. Shows a few points with portion and slightly in excess of the uperfield limits. My

Submitted by:

Charles Hanavich

Charles Hanavich

Approved by:

F. L. Gallen, Chief of Party

GEOGRAPHIC NAMES LIST FOR T-8101

Shingle Landing Prong Back Creek Showell Beaverdam Branch /Slab Bridge Prong Birch Branch South Branch Bishop Spring Branch Bishopville The pocket Bishopville Prong Turville Neck Blades Mill Pond Williamsville Buck Island Creek Windmill Creek Buck Island Pond Woods Point Bunting Zippy Creek Bunting Branch Middle Branch Bunting's Branch Campbell / Carey Branch Carey's Branch Delaware Boundary Line Dickson Branch Dirickson Creek Eagle Island George town Dranch Grey's Creek Muddy Gut = HAVY Hasty Point Haystack Pond Hen & Dhicken Island Jenkins Neck Johnson Line Ditch Manklin Creek Margots Island Birch Branch Xhiddle Branch (Vs. t. B. Maryland Bdry. Line Little Georgetown Peach Point Perkins Creek Phila. Wilm. & Balt. R.R. (Del. Md. & Va. Branch) Piney Gut Piney Island Polly Branch Roxana Roxana Branch St. Martins Neck St. Martin River √Saltgrass Point Sandy Branch Selbyville Selbyville Mill Pond Shingle Landing

NAMES ON GEOGRAPHIC NAME SHEET NOT APPEARING ON COMPILATION

Georgetown Branch

Or John Co. Washington Or designation of the state of And William Villa e. Cijee hee GEOGRAPHIC NAMES tron to rote Or local Mades Survey No.T-8101 OL NO. SELBYVILLE quadrangle No. 1 Name on Survey Ε В, C, F Н K G 1 Manklin Creek Haystack Pond 3 Margots Island 4 St. Martin River 5 <u>Saltgrass_Point</u> Jenkins Neck 7 Beaverdam Branch 8 Showell 9 <u>Dirickson Creek</u> Greys Creek 10 11 Buck Island Pond 12 Peach Point 13 Harry Creek 14 Hasty Point 15 The Pocket 16 Woods Point 17 Zippy Creek 18 Shingle Landing Prong 19 Finey Island 20 Eagle Island 21 Windmill C.eek 22 Shingle Ianding 23 Hen and Chickens Island 24 South Branch 25 Middle Branch northwest of South Branch) 26 Birch Branch (nowth of Middle Branch) 27 Perkins Creek м 234

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No. 2

Remarks

Decisions

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× .	Bishopville										2
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Y X X X	Williamsville V.										7
X	Little Georgetown						,				8
×	Back Creek										9
×	St. Martin Neck										10
×	Buck Island Creek										11
×	Spring Branch										12
	Piney Gut										13
*	Slab Bridge Prong										14
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No. 3

M 234

Or Negative of P.O. Gride of Mag J.S. Light Light **GEOGRAPHIC NAMES** Or local Mades tron to the later of the later Survey No. T-8101 No. 3 Name on Survey F В. Ε G Sandy Branch n T- 8/26 shown Turville Neck Wordester County Sussex County and specialized the filter 5 Md. Political subdivisions: 6 East Berlin No. 3 West Berlin No. 9 7 St. Martin No. 5 8 Pennsylvania R.R. / Delaware, Maryland and Virginia Branch). 9 U.S. Highway No. 113 10 Md. Highway No. 610 11 🕟 Md. Highway No. 367 12 Del. Highway No. 17 (Selbyville to Royana) 13 14 15 16 17 18 19 20 21 22 23 24 25 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.

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.

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-B, 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 with 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 Energy 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.

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.

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FIELD EDIT

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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- 8101

SELBYVILLE 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

The discussion of the horizontal accuracy test is on page 9 of this descriptive report. The vertical accuracy test was made on the field edit sheet and 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-299 1:20,000 1850

"Ocean City" 1:62,500 1901 U.S.G.S.

The U.S.G.S. quadrangle shows a small, closed, 30 foot contour (latitude 38"23"30", longitude 75°10'00") for which no corresponding 20 foot contour is shown on T-8101. As no spot elevations were determined in this area by the field party, no correction of the manuscript was possible. The U.S.G.S. quadrangle shows a segment of a small, closed, 40 foot contour in the southwest corner of T-8101. The ground does not rise higher than 39 feet according to the spot elevations and bench marks in this area; therefore, this contour has not been shown on T-8101 Charts Nos.

1220

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:

The details of T-5101 are complete and adequate for chart correction.

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

Small, closed contours were added at peak spot elevations in numerous places.

Reviewed 3-11-43

By Roy C. Clkins

under direction of D. H. Benson

Inspected by B. G. Jones Jones

Examined and approved:

Chief, Surveys Branch

Chief, Topography Section

Chief, Div. of Charts

Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 78/0/

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
46/48	1219	Frey S. Pusizinsky	Bafore After Verification and Review applied
12/22/47	1220	D. Engel	Before " " " " "
5/3/49	1220	25 Walker	After Verification and Review
			Before After Verification and Review
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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.