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8272

Form 504
Rev. June 1941
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

<i>Air Photographic</i>	} Survey No. T-8272 (Field)
<i>Plane Table</i>	
<i>Hydrographic</i>	

MARYLAND
LOVE POINT QUADRANGLE
N 3900 - ~~W~~ 7615/7.5

LOCALITY

State Maryland

General locality Eastern Shore

Locality Kent Island

Love Point, Quad.

194 2

CHIEF OF PARTY

Wm. D. Patterson

U. S. GOVERNMENT PRINTING OFFICE 315551

June 3, 1946

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. T-8272

REGISTER NO. T-8272

State Maryland

General locality Eastern Shore

Locality Kent Island

Scale 1:20,000 Date of survey Aug. 13, Sept. 3, 1942

Vessel War Mapping Party No. 1

Chief of party Wm. D. Patterson

Surveyed by James M. Grover, Wendell Bever

Inked by Wendell Bever, Photogrammetric Aid

Heights in feet above 24 to ground ~~to tops of trees~~

Contour, ~~Approximate contour, Form line~~ interval 20 feet

Instructions dated August 3, Supple. Instruc. Aug. 13, 1942

Remarks: _____

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

This quadrangle, together with similar adjoining maps produced under Project CS-288A, 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:

PREPARATION OF BASE MAPS

Planimetric maps had been compiled of this area just prior to the war mapping project. These planimetric maps were reduced from their original scale of 1:10,000 and were compiled into quadrangle base sheets by photographic processing. Prints of these quadrangle base sheets were made on cloth-mounted paper for field work and on aluminum-mounted paper for office drafting.

FIELD SURVEYS

The field work consisted of a detailed examination of the quadrangle base sheet and the addition of 20 foot contours by planetable methods. All corrections and additions to the planimetry necessary to bring the base sheet up to date of the field work were made by planetable.

Supplementary vertical control for the planetable contouring was established by spirit levels (fly levels) to furnish unmarked elevations at road intersections and numerous other points.

PROCESSING IN THE WASHINGTON OFFICE

Review. - The field sheet was examined in the Washington Office for completeness of details and compliance with specifications.

Drafting and Reproduction. - The contours and corrections and additions to planimetry were transferred from the field sheet to the color-separation drawings by means of a map projector. Color-separation drawings were then completed in the usual manner. From these drawings, negatives and printing plates were prepared for reproduction of the finished map at scale 1:31,680.

DESCRIPTIVE REPORT TO ACCOMPANY
T-8272
WAR MAPPING PROJECT CS-238-A
MARYLAND
Wm.D. Patterson, Chief of Party

INSTRUCTIONS

This work was executed under the Director's Instructions dated August 13, 1942, and supplemental Instructions dated August 13, 1942.

GENERAL DESCRIPTION OF AREA:

The map manuscript covers upper Kent Island north of Stevensville. Cultivated land makes up the greater portion of the area with a few patches of woods evenly distributed throughout the area.

ORGANIZATION OF WORK

The survey operations on this quadrangle was undertaken in the following order:

- a - Supplementary levels
- b - Field edit
- c - Contours
- d - Bridge classification
- e - Vertical Accuracy test

Operations "a" and "c" were performed by two 4-man parties; operation "b" by a 2-man party, operation "d" by a special 2-man party, and operation "e" by a special 5-man party.

LEVELS

Supplemental levels were run on this sheet by James M. Grover, Photogrammetric Aid, September 3, 1942.

These levels were controlled from Coast and Geodetic Survey, tidal bench marks, and proceeded the second order levels mentioned in paragraph 13 of the instructions for this project.

A wye level with 16 foot rods, graduated in feet and tenths was used. Elevations were read to the nearest tenth of a foot and estimated to the nearest hundredth. Elevations were taken along the centerline of all the principal roads at intervals of one fourth mile intersections with other roads, hedges, fences, and etc. These points were identified on a copy of the map assembly, and furnished to the topographer for the control of contours.

All supplemental level lines were closed lines except along roads where the second order levels were to be later run. Level lines whose closures exceeded one foot were re-run; minor level lines (not used for the control of other lines) were not adjusted if the closing error was less than 3/10 foot. Temporary bench marks were set along the main level lines for the control of minor level lines. Elevations to the nearest

1/10 foot were furnished to the topographer.

Level ties were made with the 1942 second order bench marks while running the supplemental levels, although the elevations of these bench marks were not available at the time. A comparison with the second order elevations later showed that the supplemental levels were not in error more than 0.24 foot. The supplemental levels were not adjusted.

All supplemental level elevations have been inked in black on the sheet to the nearest 1/10 foot and will be of value should five foot contours be added at a later date. All level elevations on this sheet were checked against the original level records by Wendell Bever, Photogrammetric Aid, September 18, 1942. ✓

CONTOURING

This sheet was contoured by Wendell Bever, Photogrammetric Aid, September 21st to 22nd, 1942.

The contouring was done directly on a 1:20,000 scale map assembly of the planimetric maps by standard plane table methods, except that plane table positions were located and orientations obtained from the topographic detail shown on the map assembly.

U. S. Geological quadrangle maps were consulted, and where discrepancies existed they were noted in the field. Since the Geological Survey quadrangle maps were on a much smaller scale than the work on this project only a visual comparison was made. In general, the contours of the two surveys were in close agreement. The following are the larger discrepancies:

1. At latitude $39^{\circ} 01'$, longitude $76^{\circ} 19'$, a small, closed 20 foot contour was found which was not shown on the U.S. Geological Quadrangle.
2. At latitude $39^{\circ} 01'$, longitude $76^{\circ} 18' 30''$, a small, closed twenty-foot contour was found, which was not shown on the U. S. Geological Quadrangle.

Plane table elevations were taken in the open areas, and a hand level used in the areas covered by thick growth of vegetation. The clearing lines of sight were held to a minimum.

All plane table elevations obtained in the field having been inked in brown on the sheet, except where the elevations were on or very close to the contour, in which case they were left off the sheet. These elevations will be of value should five foot contours be added at a later date. Useful elevations such as are shown by the Geological Survey were obtained in the field but no selection was made during the inking of the sheet.

The magnetic meridian shown on the sheet was obtained from orienting along State Highway No. 18 and has been checked in the field.

FIELD EDIT

This sheet was field edited by Wendell Bever, Photogrammetric Aid, August 13, 1942.

All symbols used during the field edit are standard topographic symbols, except that a green x was used for deletions and a tick mark was used to indicate the limits of drainage deletions, and, also, the changed points in the road classification. A list of abbreviations used during the field edit is contained in the back of this report.

A. Boundaries

The boundaries of the political districts were drawn on this sheet from maps furnished by the Washington office, after they were verified locally.

B. Buildings

All farm buildings except dwellings, have been classified as "b" (barns). This includes large substantial sheds, chicken houses, and etc.

All buildings are shown in their relative size, except where individual buildings were so close that they could not be shown on this scale, in such case the buildings were slightly reduced in size. In general there were few additions or deletions of buildings on this sheet.

C. Bench Marks

All bench marks of the 1942 second order level lines have been located on this sheet. Descriptions for these bench marks are to be submitted by the second order level party.

Descriptions of the three tidal bench marks at Love Point are, submitted with this report. Bench mark No. 2 of this group has been shown on the sheet.

D. Bridges

Bridge classifications were made by C. C. Fryer, Photogrammetric Aid while operating as a special 2-man field party. The classifications are in accordance with the instructions from the War Department dated July 23, 1942, and been shown in "key" on the sheet.

Culverts (span of 20 feet as classified by the U.S. Bureau of Public Roads) have not been indicated on the sheet unless they are not capable of supporting normal loads. In which case they have been labeled "weak culv" on the sheet.

There were no bridges or weak culverts on this sheet.

E. Field Culture

All field culture, such as wire fences, brush along fence lines, field ditches, field lines and wagon tracks have been deleted from the map manuscript. There were no stone fences on this sheet.

F. Geographic Names

In accordance with the instructions no special investigation of geographic names was made. However, the party was on the alert for name discrepancies and new names. The only geographic name discrepancy found on this sheet is the spelling of Queen Anne's County. The following spellings were found:

Queen Annes County
Queen Anne County
Queen Anne's County

*Queen Annes County
is USGS decision
(revised).*

The apostrophe spelling is recommended since it is the spelling listed in the official county records.

G. Drainage

Few natural ^{streams} ~~drainages~~ were found on this sheet, however many streams were extended beyond their natural water course up into cultivated fields and small swales. The limits of the stream course were shown with a small green tick mark and the incorrect drainage deleted.

H. Shoreline

There were no shoreline changes nor docks of a temporary nature on this sheet.

I. Power and Telephone Lines

Power lines were treated in accordance with the Standard Geological Survey practice, i.e. only trunk power transmission lines were shown, except where the lines are in less developed rural areas and not along the principal highways.

Telephone lines were treated in accordance with the Supplemental Instructions from the Director, dated August 13, 1942.

There are no powerlines or telephone lines in the above category on this sheet.

J. Roads

All roads have been classified and shown in accordance with instructions from the Army War College dated January 12, 1942.

K. Woods

The woods areas have been classified for concealment, types of trees and density. A key of the classification is contained in the back of this report.

JUNCTIONS

This sheet joins Quadrangle T-8278 on the north, T-8275 on the east, T-8266 on the south and T-8271 on the west. The only land junction is with Quadrangle T-8266 on the south. There are no contours along this junction. The field edit (road, woods classification and etc.) along this junction is in agreement.

STATISTICS

Supplemental Levels, statute miles5.0
Contours, Square statute miles1.5
Field edit, Square statute miles4.0

TESTS

Horizontal Accuracy:

There were no horizontal accuracy tests in this quadrangle. For tests in this general area see descriptive report for sheet T-8268.

Vertical Accuracy:

Vertical accuracy tests were made by Charles Hanavich, Senior Photogrammetric Aid, on September 25, 1942.

A section of the 20 foot contour was run on a copy of this sheet, transferred to the map manuscript and checked. This test contour is shown in orange colored ink with the elevations points on the contour shown by black dots. *The planetable sheet including this test is filed in the Division of Photogrammetry. R.S.J.*

The section of the contour tested on this sheet is well within the limits of accuracy as set forth in the instructions. Five foot contours can be added later without conflict.

REMARKS

This sheet was inked by Wendell Bever, Photogrammetric Aid, September 24, 1942.

The names of triangulation stations have been left off this sheet and should be added by the Washington Office. These names do not appear on the 1/10,000 scale ozalid print of the air photographic survey.

This sheet is complete, except for the above, and requires no further field work.

The field work on this sheet was supervised and the report compiled by Edmund L. Jones, Lieutenant.

Submitted by

Edmund L. Jones
Lieutenant,
U.S. Coast & Geodetic Surveys

Approved:

Wm. D. Patterson
Wm. D. Patterson,
Chief of Party

ABBREVIATIONS
FIELD EDIT ON MAP MANUSCRIPT
Project 222 A

Bridges (special party)

<u>First Symbol</u>	One Lane
Capacity	S m.p.h.
A	50 tons
B	25 "
C	12 "
D	10 "
E	6 "
F	Light vehicles only

Second Symbol

Vertical Clearance	A - over 14'
Clear height for	B - over 15'
width of 10'	C - over 12'
	D - over 11' etc.

Third Symbol

Horizontal Clearance (width between ends)	A - over 18'
	B - over 17'
	C - over 16'
	D - over 15' etc.

Fourth Symbol - Year of classification

"U" - Unimproved (substituted for first symbol where applicable)
 "T" - Trench
 "C" - Culverts

Woods

Generalization

- A - Trees 10' high - hide troops
- B - Brush, hide troops, impede progress
- C - Scattered brush and hide troops

Density

- 1 - Scattered
- 2 - Thinly wooded
- 3 - Heavily wooded
- 4 - Densely wooded

Types

- D - Deciduous
- P - Evergreen and pine
- R - Brush
- S - Scrub
- L - Young trees

Roads

Classification:

- Rd. 1 - Dependable, hard surface
- Rd. 2 - Secondary, all-weather
- Rd. 3 - Loose surface
- Rd. 4 - Unimproved, but graded
- Rd. 40 - Track road
- Rd. 5 - Horse or foot trail
- P - Private road
- W - Width in feet
- RR - Railroad
- Tr - Tracks (R.R.)

Buildings

- D - Dwelling
- B - Barn
- Sto - Store
- Bldg - Building
- Ch - Church
- Sch - School
- P.O. - Post Office
- C.H. - Court House
- RR Sta - Railroad Station
- Hos - Hospital

Note: Woods concealment has been indicated on the sheet by letters A, B, and C, which correspond to Class 1, Class 2, and Class 3 of the instructions.

T-8272

Remarks

Decisions

	Remarks	Decisions
1		390763
2		"
3		389763 USGB
4		"
5		390762
6		U.S.G.B
7		Railway Guide
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GEOGRAPHIC NAMES

Survey No. T-3272

Name on Survey	Source									
	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
✓ <u>Love Point</u> (point)										1
✓ <u>Love Point</u> (village)										2
✓ <u>Kent Island</u>										3
✓ <u>Chesapeake Bay</u>										4
✓ <u>Chester River</u>										5
✓ <u>Queen Annes County</u>										6
✓ <u>Baltimore and Eastern R.R.</u>										7
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Names underlined in red approved
by L. Heck on 11/17/42

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, outlines.

Descriptive Report.

Division.

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~~ Section.

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 map manuscript - ozalid cloth-backed copy.

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.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8272

LOVE 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

The nearest horizontal accuracy test was run in quadrangle T-8268.

A vertical accuracy test was run in this area. See item Tests, on page 5 of this Descriptive Report.

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.

For previous topographic surveys in this area see the Descriptive Report for T-5721.

Comparison with Nautical Charts Nos. 1225.

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-8272 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:

Only changes of a minor nature were necessary during the review of this map manuscript.

Reviewed Nov. 4, 1942 By W. N. Benson
under direction of D. H. Benson. (per W. N.)

Inspected by B. G. Jones B. G. Jones 5/46

Examined and approved:

K. T. Adams
Chief, ~~Surveys Branch~~
Division of Photogrammetry

~~Chief, Topography Section~~

Robert W. McKee
Chief, Div. of Charts
Nautical Chart Branch

Raymond R. Egman
Chief, Div. of Coastal
Surveys