

8278

8278

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

DESCRIPTIVE REPORT

Air Photographic }
Plane Table } Survey No. T-8278
Hydrographic } (Field)

511
Diag. Ch.
77-4

MARYLAND
SWAN POINT QUADRANGLE
N3907.5 - W7615/7.5

LOCALITY

State Maryland
General locality Eastern Shore
Locality Swan Creek

SWAN POINT QUADRANGLE

194.2

CHIEF OF PARTY

F. L. Gallen

U. S. GOVERNMENT PRINTING OFFICE 313551

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-8278

REGISTER NO. T-8278

State Maryland

General locality Eastern Shore

Locality Swan Creek

Scale 1:20,000 Date of survey Aug. 14 - Sept. 16, 19 42

Vessel War Mapping Party No. 1

Chief of party Wm. D. Patterson - F. L. Gallen

Surveyed by Dwight L. Greene, John C. Lajoie, C. C. Fryer, L. G. Chambers

Inked by John C. Lajoie

Heights in feet above M.S.L. to ground ~~to tops of trees~~

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

Instructions dated August 3, 19 42

Remarks: Supplemental Instructions August 13, 1942.

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-8278
MARYLAND
WAR MAPPING PROJECT CS-288-A
F. L. Gallen, Chief of Party

INSTRUCTIONS

This work was executed under the Director's Instructions dated August 3, 1942, and Supplemental Instructions dated August 13, 1942.

GENERAL DESCRIPTION OF AREA:

This sheet is comprised mainly of a large peninsula with the Chesapeake Bay on the west side and Swan Creek on the east side; this main peninsula is sub-divided, also, by Tavern Creek. The remainder of the area is comprised of a series of necks and points, which extend from the mainland out into Swan Creek.

This area consists of low, flat farm land, several scattered wooded areas, and large areas of marsh land about equally distributed in the southern area of this sheet.

ORGANIZATION OF WORK

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

- a - Supplementary levels
- b - Field edit and contours
- c - Bridge classification
- d - horizontal accuracy tests

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

LEVELS:

Supplemental levels were run on this sheet by Dwight L. Greene, Photogrammetric Aid, August 14, 1942.

These levels were controlled from Coast and Geodetic Survey Tidal Bench Marks at Tolchester Beach, 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 so forth. These points were identified on a copy of the map assembly and furnished to the topograph-

er for the control of contours.

All supplemental level lines on this sheet were closed lines. 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.

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 Dwight L. Greene, Photogrammetric Aid.

CONTOURING

This sheet was contoured by John C. Lajoie, Senior Photogrammetric Aid, September 16 to 21, 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. Only a few short plane table traverses were run, and in each case, it was used to carry elevations for a plane table set-up.

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.

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 have 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.

FIELD EDIT

This sheet was field edited by John C. Lajoie, Senior Photogrammetric aid, September 16 to 21, 1942, while contouring.

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 the deletions of drainage, and also the points of change in the road classification. A list of abbreviations used during the field edit is contained in the back of this report.

A. Boundaries

The boundary for the political districts was drawn on the sheet from the maps furnished by the Washington office, after it was verified locally. A short section of the boundary follows what was once a private road but is now only a fence line. The road is shown deleted.

B. Buildings

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

There were numerous new buildings added to the sheet, built since the date of the air photographic survey.

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. Where buildings were attached to each other then solid blocks of buildings were shown.

C. Bench Marks

A line of second order levels was run to the monumented triangulation station STEEL TOWER NO. 13, 1918, by Clarence Symms, Associate Geodetic Engineer, who is operating an independent unit. A description of this bench mark will be submitted by this 2nd order level party.

The above bench mark is the only one appearing on this quadrangle.

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 have 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. None were found.

The roads on this sheet do not have local names.

G. Drainage

A few streams (shown by a full line on the map assembly) were reclassified as intermittent streams.

H. Shoreline

There were no shore line changes or temporary docks noted on this sheet.

I. Power and Telephone Lines

Power lines were treated in accordance with the standard practice of the Geological Survey, 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 power or telephone lines shown on this sheet.

E. Roads

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

F. Woods

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

JUNCTIONS

The only land junction with other sheets is with Quadrangle No. T-8279. The junctions of the contours and field edit was checked by John C. Lajoie, Senior Photogrammetric Aid, September 30, 1942.

STATISTICS

Supplemental Levels, statute miles2.8
Contours, Sq. statute miles12.8
Field Edit, Square statute miles12.8

TESTS

see next page for horizontal accuracy test.
~~There were no horizontal accuracy tests in this quadrangle. For tests in this general area see descriptive report for sheet.~~

There were no vertical accuracy tests in this quadrangle. For test contour tests of the topographer see sheet T-8279.

REMARKS

This sheet was inked by John C. Lajoie, Senior Photogrammetric Aid, September 23, 1942.

This sheet is complete 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

*E. L. Jones by
Emil H. Kusch*

Edmund L. Jones,
Lieutenant, C. & G. S.

Approved:

F. L. Gallen

F. L. Gallen
Chief of Party

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TESTS FOR HORIZONTAL ACCURACY
QUADRANGLE NO. T-8278
PROJECT 288-A

This test consists of a traverse between Triangulation Station CLOUGH (1895) and Triangulation Station STEEL TOWER NO. 13 (Ecc.) (1933). The traverse is 6.68 statute miles in length and contains 18 test points, 5 of which are within the boundaries of this quadrangle. The traverse closure is one part in 6,350 and the closing discrepancy was distributed through the traverse. 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. Tests No. sixteen through eighteen are tabulated for this report:

TABULATION OF TEST POINTS

Description of Point	Test Point Number	Lat.	Long.	Difference in mm.
Inter. road & road 80°	P. P. No. 16	39-10-1367.9	76-15- 547.8	.240 mm
	M. M. No. 16	39-10-1366.0	76-15- 543.4	
Inter. road & road 80°	P. P. No. 17	39-10-1143.0	76-15- 817.4	.238 mm
	M. M. No. 17	39-10-1142.3	76-15- 822.1	
Inter. road & road 85°	P. P. No. 18	39-10-1229.9	76-15-1293.0	.196 mm
	M. M. No. 18	39-10-1229.0	76-15-1289.2	

All test points are considered well-defined points, and the map manuscript error is less than .5 mm for all points listed.

Submitted by

Emil H. Kirsch
Emil H. Kirsch,
Lieutenant
U.S. Coast and Geodetic Survey

Approved

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

ABBREVIATIONS
 FIELD EDIT ON MAP MANUSCRIPT
 Project 288 A

Bridges (special party)

<u>First Symbol</u>	One Lane
Capacity	5 m.p.h.
A	50 tons
B	25 "
C	18 "
D	10 "
E	6 "
F	Light vehicles only

Second Symbol

Vertical Clearance	A - over 14'
Clear height for	B - over 13'
Width of 10'	C - over 12'
	D - over 11' etc.

Third Symbol

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

Fourth Symbol - Year of classification

"U"	- Underpass (substituted for first
"T"	- Tunnels symbol where applicable)
Culv	- Culverts

Woods

Concealment

- 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

Type

- 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. 4U - 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.

	Remarks	Decisions
1		USGB
2		391762
3		"
4		"
5		"
6		" USGB
7		"
8		"
9		"
10	May be entirely off limits this sheet <i>yes</i>	" USGB
11	Off limits this quadrangle	"
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GEOGRAPHIC NAMES

Survey No. T-8278

SWAN POINT quadrangle

Name on Survey

On Chart
No.

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

A,

B,

C,

D

E

F

G

H

K

✓ Chesapeake Bay ✓											1
✓ Swan Point ✓											2
✓ Little Neck Island ✓											3
✓ Swan Creek ✓											4
✓ Deep Landing ✓											5
✓ Gratitude ✓											6
✓ The Haven ✓											7
✓ Tavern Creek ✓											8
✓ Windmill Point ✓											9
Rock Hall Harbor											10
Deadman Point											11
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Names entered in red approved
by L. Heck on 11/17/14

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-8278

SWAN 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

A horizontal accuracy test was run in this area and found to be satisfactory. The test is inclosed in this Descriptive Report.

The nearest vertical accuracy test was run in quadrangle T-8279.

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.

See Descriptive Report T-5698 for comparisons with previous topographic surveys.

Comparison with Nautical Charts Nos. 548, 549, 1226

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-8278 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 unnecessary during the review of this map manuscript.

Reviewed Nov. 12, 1942 By D. H. Benson
under direction of D. H. Benson *(per IM.)*

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. Hines
Chief, Div. of Charts
Nautical Chart Branch

Raymond C. Egan
Chief, Div. of Coastal
Surveys