

5816

Diag'd. on Diag. Ch. No. 77-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic

Field No. _____ Office No. T-5816

LOCALITY

State Maryland

General locality Choptank River

Locality Tuckahoe Creek

Date of Photos: 1940

194 2

CHIEF OF PARTY

LIBRARY & ARCHIVES

DATE Mar 12 - 1947

B-1870-1 (1)

5816

Applied to chart 1225 G.H.S. Nov. 28, 1942 (Before review)

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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 - 5816

REGISTER NO.

State Maryland

General Locality Choptank River

Locality Tuckahoe Creek

Scale 1:10,000 Date of survey _____, 19____

Vessel Air Photographic Party #2

Chief of party Lieut. L.W. Swanson

Surveyed by _____

Inked by Shoreline & Detail - E.H. Snyder

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated _____, 19____

Remarks: _____

15816

DATA RECORD T-5816

Photographs

NUMBER	DATE	TIME	SCALE	ALTITUDE	(feet above M.L.W.) *STAGE OF TIDES
4797-4798	March 12, 1940	12:36-12:40	1:10,000	66870 ft. Unknown	0.8
4861-4864	June 30, 1940	8:51-9:16	1:10,000	6670 ft. Unknown	0.8

*Tide from predicted tables. Denton, Md., Reference station Baltimore, Md.
Mean range 2.2 feet, spring range 2.5 feet.

Camera: U.S.Coast & Geodetic Survey, nine lens
Focal Length 8-1/4 inches.
Negatives on file in the Washington Office
Single lens photographs obtained from the
AAA of the Department of Agriculture were
also used. The numbers and dates of these
pictures are as follows:

AHT-10-39 to 10-42 July 2, 1937
AHW-36-23 to 36-30 Sept.10,1937
AHT-36-76 to 36-80 Sept.10,1937
AHT-54-1 to 54-8 Oct. 15,1937

These pictures were taken at a 1:20,000 scale and
then enlarged to a 1:10,000 scale. The focal
length, altitude of plane, and time of exposure
are all unknown.

SUPPLEMENTAL SURVEYS

Graphic Control Surveys.....None
Hydrographic Surveys.....None
Field Inspection by.....J. Lajoye.....Fall 1941
Name Investigation by.....J. Lajoye.....Fall 1941

The detail on this map drawing is of the date of the above
listed photographs.

GENERAL INFORMATION

	Date
Chief of Party.....	Lieut. L. W. Swanson
Projection by Washington Office. Ruling Machine.....	March 8, 41
Projection checked by Washington Office.....	March 9, 41
Hydrographic signals pricked on office photos by.....	J.L.Rihn & E.H.Snyder.....
Control plotted by.....	L.W.Swanson.....July 29, 41
Control checked by.....	J.Aleck.....July 31, 41
Additional control plotted by E.H.Snyder.....	April 1942
20,000 and 10,000 Radial Plot by W.E.Schmidt, J.E.Deal and W.A.Rasure.....	August, 41

Radial points by (Secondary)...J.W.Deal.....June 1941
 Additional radial points by...E.H.Snyder.....Apr. 1941
 Detail rough draft, interior by E.H.Snyder.....Apr. 7, 42 to
 Detail rough draft (shoreline) J.L.Rihn.....June 30, 42
 Scale.....1:10,000.....No Scale Factor
 Preliminary review by.....J.L.Rihn
 Area (land).....29.0 sq. statute miles
 Shoreline (less than 200 meters).....5.6 statute miles
 Railroads.....10.4 statute miles
 Roads, trails, streams, and ditches.....159 statute miles
 Time required for detailing shoreline.....6 working days
 Time required for detailing interior.....56 working days

REFERENCE STATION

Queen, 1934

North American Datum - 1927 (adj.)

Lat. 38° 55' 35.552" 1096.3m
 Long. 75° 57' 39.695" 956.2m

Maryland system of plane coordinates X Y

X coordinate 1,095,574.92

Y " 399,804.38

DESCRIPTIVE REPORT
TO ACCOMPANY
AIR PHOTOGRAPHIC SURVEY MAP DRAWING #T-5816
STATE OF MARYLAND
CHOPTANK RIVER.....EASTERN SHORE.....TUCKAHOE CREEK

Date of this Report

July 24, 1942

Instructions:

This rough draft map drawing is a part of project No. HT-215 dated May 13, 1938 and supplemental instructions contained in the Directors' letters dated March 31, 1938, June 1, 1938, June 19, 1938, and August 28, 1939.

Control:

The control consists of the following stations shown by the triangulation symbol:

U.S. C. & G. Stations

Queen 1934 (supplemented by F.I.S.
R.M.#2 Queen)
Ridgely water tank, 1934

Radial points obtained from a 1:20,000 scale plot were used as secondary control points.

Radial Plot:

Two special reports have been submitted, describing in detail the procedure followed in laying the radial plot of this map drawing. One a report of the 20,000 plot and the second the main 10,000 plot. It is recommended that these two reports be consulted when this map drawing is reviewed. *Special Report, Swanson, L.W., 1741/124 (Library)*

Listed below are the photographs used and the degree of their tilt:

Photo.No.	Tilt
4797.....	0° 26'
4798.....	inappreciable
4861.....	0° 25'
4862.....	0° 45'
4863.....	inappreciable
4864.....	0° 26'

Detailing:

The areas adjacent to the northern and southern borders are weak due to tilt and distortion of the photos. The north-western corner is especially weak.

All nine lens photos were out of scale making the use of the projector necessary in detailing. Single lens photos covered the entire map drawing but were not sufficiently clear for accurate detailing of buildings. Nine lens photos were used for this purpose wherever possible.

The flight of pictures covering the western section (Nos. 4797 and 4798) was taken March 12, 1940 before foliage obscured the drainage lines. This flight was used wherever possible for the location of drainage. The flight covering the eastern area (Nos. 4861 to 4864 incl.) was made June 30, 1940 while the terrain was hidden by foliage. The stereoscope helped locate some of this drainage, but where this method failed, the positions of streams and ditches were assumed and indicated by dash lines.

It is believed that all buildings within the confines of this map drawing were shown, except in towns which have a definite street system, then only public and large buildings are shown.

All roads over six meters in width were labeled as to size and class. Those not labeled as to width are to be detailed to six meters.

All trails were shown with the dash symbol (-----) or labeled.

All fences were labeled or shown thus by F

All ditches were labeled DCH.

Intersections that could not be defined as of a rough draft were shown as of a smooth draft.

All field inspection photographs were used and faithfully referred to in the detailing of this map drawing.

Approximate limits of shoal water are shown with a dash line (acid ink-black) for use of the hydrographer only.

Geographic Names:

Geographic names shown on this map drawing are listed on form M-234 in the appendix.

Geographic names were investigated by J. Lajoie in the Fall of 1941.

Recoverable Hydrographic and Topographic Signals:

Two of these stations are listed on form 524 in the appendix. They are shown with a 2-1/2 mm black acid ink circle on the map drawing.

Hydrographic Signals:

Stakes and natural objects along the shore line have been located to aid the hydrographic party. They are shown by small acid ink circles, 1-1/2 mm in diameter.

Junctions:

This survey joins the following map drawings:

No map drawing is to the north of this survey. T-5817 on the east. Junction is in good agreement as far as the detail has been completed on T-5817 up to date of this report. T-5815 on the west. T-5815 has not been completed to the extent that a junction can be made. T-5813 on the south. Junction in agreement.

Comparisons with Previous Charts and Surveys:

There are no previous charts or surveys of this area on hand.

Recommendation for Future Surveys:

This map drawing is believed to be complete in all important details and no additional surveys should be required.

The probable error of radial points and well defined objects along the shoreline is no greater than 0.5mm. The error of other detail of importance on this map drawing is probably not greater than 1.0mm. where the radial points have been determined by three or more photographs.

Respectfully submitted,

E. H. Snyder
E. H. Snyder
Asst. Photogrammetric Aide (Field)

Reviewed Jack L. Rihn
J. L. Rihn
Principal Photogrammetric Aide (Field)

Forwarded Approved:

L. W. Swanson
L. W. Swanson
Chief of Party

Aug 15, 1942

Survey No. T-5816

[illegible]

Remarks.

Decisions

1		389758-59
2		"
3		"
4		"
5		"
6		388758-59
7		389758-59
8		"
9		"
10	*-P.B. & W.R.R. ✓ * Delaware & Shesapeake R.R.	
11	A, B, & C, - Delaware R.R. Oxford Branch (P.R.R. System)	Railway Guide
12	E & F - Pennsylvania G- Phila., Balto. & Wash. R.R.	
13	*- M.D.&V. Ry. ✓ - Queen Anne R.R.	Railway Guide
14	D & F- Baltimore & Eastern E- Maryland and Delaware Coast	
15	G- Md. Del. & Va. R.R.	389758-59
16	A, B, & C - Baltimore & Eastern R.R. (P.R.R. System)	"
17	Marsh, Brush, and a creek channel are now present where	"
18	this millpond used to be.	
19		
20		
21		
22		
23		
24		
25		
26		
27		
M 234	approved by Heck on 2 March 1942 Ridgeley	131440

L. Heck
1412/42

Division of Photogrammetry

Review of Planimetric Map T-5816

Compilation of manuscript T-5816 was completed in Baltimore in July 1942 but Washington Office processing was delayed for several years because of war map work.

Subsequent to completion of manuscript compilation, this sheet was used as a basic planimetric map for the preparation of quadrangle T-8269. This quadrangle was one of a series produced by this Bureau for the War Department between 1942 and 1944.

T-5816 was reviewed in July 1943. The reviewer's notes have been lost and this report was prepared by B. G. Jones after examination of the manuscript and office records in January 1947.

Detailing.-

Drainage on the manuscript has been extensively revised during review, and a number of changes have been made in the shoreline in the southwest corner of the manuscript.

Comparison with Hydrographic Surveys.-

Only a small amount of shoreline is shown on T-5816 and this agrees with H-6997, 1:10,000, 1944. Comparison made January 1947.

Previous Topographic Surveys.-

None in this area.

Comparison with Nautical Charts.-

T-5816 was applied to chart 1225 in November 1942. While the changes made during review will be minor on the 1:80,000 scale chart, they have been made since T-5816 was applied to chart 1225 and probably should be examined the next time the chart is taken up for correction. The changes are shown in red on the manuscript for T-5816.

Review report prepared by B. G. Jones, January 1947.

Page Two

APPROVED BY:

B. J. Jones 1/30/47
Technical Assistant to the
Chief, Div. of Photogrammetry

J. E. Feltman
Chief, Nautical Chart Branch
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

C. H. Green
Chief, Div. of Coastal Surveys