

8102

8102

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic

Field No. _____ Office No. T-8102

LOCALITY

State Maryland and Delaware

General locality Chesapeake Bay

Locality Whaleysville Quadrangle

N3822.5-W7515

194 2

CHIEF OF PARTY

Commander Fred. L. Peacock

LIBRARY & ARCHIVES

DATE December 28, 1943

B-1870-1 (11)+*

8102

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DATA RECORD

T- 8102

Quadrangle (II): Whaleyville

Project No. (II): CS-278-B

Field Office: Salisbury

Chief of Party: F. L. Gallen

Compilation Office: Baltimore

Chief of Party: Fred. L. Peacock

Instructions dated (II III):
 3/4/42, 3/27/42, 6/5/42, 6/24/42
 8/13/42, 9/4/42

Copy filed in Descriptive
 Report No. T- (VI)

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: 3/1/43

Applied to chart No.

Date:

Redrafting Completed:

Registered:

Published:

Compilation Scale: 1:20,000 x 0.982
 = 1.19640

Published Scale:

Scale Factor (III): 1.018

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

Reference Station (III): GUMBORO, DEL. ~~1932~~ 1942

Lat.: ~~38°28'58.187"~~ ^{38°28'58.187"} (1794.1m) Long.: 75° 21' 54.921" (1331.1m) Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):

^{plane}
 Delaware coordinate system (single zone)

X =

Y =

Maryland plane coordinate system (single zone)

Military Grid Zone (VI) A

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8710-8711	4/14/42	12:17 P.M.	1:20,000	No tidal
8721	4/14/42	12:42 P.M.	1:20,000	waters
8736-8739	4/14/42	1:05 P.M.	1:20,000	on this
4-225, 4-226	unknown	unknown	Enlarged from	survey
4-227, 4-228			1:60,000 to	
			1:20,000	

Tide from (III):

Mean Range:

Spring Range:

Camera: (Kind or source) U.S.Coast & Geodetic Survey nine lens camera
(focal length $8\frac{1}{2}$ ") Commercial contract, with special
single lens aerial mapping camera (focal length 4")

Field Inspection by: John R. Evans date:

Field Edit by: Orvis N. Dalbey date: Nov.1942

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

Projection and Grids ruled by (III) Washington Off. date: July 1,1942.

" " " checked by: Washington Office date: July 1,1942.

Control plotted by: J. Edward Deal, Jr. date: July 3,1942.

Control checked by: J. Steinberg date: July 3,1942.

Radial Plot by: J. Edward Deal, Jr. and J. Steinberg date: July 3,1942.

Detailed by: Charles N. Hamilton date: Aug.3 to Nov.
1,1942.

Reviewed in compilation office by: date:

Elevations on Field Edit Sheet
checked by: Orvis N. Dalbey date: 1/14/42

STATISTICS (III)

Land Area (Sq. Statute Miles): 58.4

Shoreline (More than 200 meters to opposite shore): None

Shoreline (Less than 200 meters to opposite shore): None

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 57

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:

PHOTOGRAPHS:

NUMBER	DATE	TIME	SCALE	ALTITUDE	TIDE
*8710 - 8711	4/14/42	12:17p.m.	1:20,000	Unknown	No Tidal Waters on this survey
8721	4/14/42	12:42p.m.	1:20,000	Unknown	
8736 - 8739	4/14/42	1:05p.m.	1:20,000	Unknown	
**4-225, 4-226			Enlarged from		
**4-227, 4-228	unknown	unknown	1:60,000 to 1:20,000	Unknown	none

CAMERAS: *U. S. Coast & Geodetic Survey nine lens camera (focal length $8\frac{1}{4}$ ").

****Commercial contract, with special single lens aerial mapping camera (focal length 4").**

GENERAL INFORMATION:

Chief of Party.....Fred. L. Peacock
Field Inspection by War Mapping Field Party No.1, Lieut Comdr. Wm. D.
Patterson in charge,.....Spring & Summer, 1942
Projection by.....Washington Office.....July 1, 1942
Projection checked by.....Washington Office.....July 1, 1942
Scale Plot by.....Jack L. Rihn.....June 1, 1942
Control Plotted by.....J. Edward Deal, Jr.....July 3, 1942
Control checked by.....J. Steinberg.....July 3, 1942
Radial Plot by.....J. Edward Deal, Jr. & J. Steinberg.....July 8, 1942
Radial Points Picked by.....J. E. Deal, Jr. & J. Steinberg.....July, 1942
Additional Points by....C. N. Hamilton & E. C. Jastremski.....July, 1942
Shoreline.....none
Detail Inked by.....Charles N. Hamilton.....Aug. 3, to Nov. 1
Scale.....1:20,000 x 0.982= 1:19,640
Scale Factor.....1.018
Time Required for Detailing.....35 days
Preliminary Review by.....Wm. H. VanLoon.....Nov. 2-7, 1942

STATISTICS:

Area (land).....58.4 Sq. Statute Miles
Shoreline (More than 200 meters from opposite shore).....none
Shoreline (Less than 200 meters from opposite shore).....none

REFERENCE STATION:

Gumboro, (Del.) 1942

Latitude 38° 28' 58.185" 1794.1 m (56.0)
Longitude 75° 21' 54.921" 1331.1 m (123.1)

DESCRIPTIVE REPORT
TO ACCOMPANY
AIR PHOTOGRAPHIC SURVEY NO. T-8102
MARYLAND & DELAWARE
WHALEYSVILLE (PITTSVILLE)

Date of this Report

September 2, 1942

This rough draft map manuscript is part of War Mapping Project CS-278, and is within sub-project division CS-278-B. This map manuscript covers the 7½ minute Whaleysville Quadrangle and is part of the 15 minute Pittsville Quadrangle.

INSTRUCTIONS:

Instructions for this project are contained in the Director's letter dated March 4, 1942 and Supplemental Instructions are contained in inter-office correspondence of March 27, June 5, 24, Aug. 13, and Sept. 4, 1942.

FIELD INSPECTION:

Road and woods classifications, drainage, contours and elevations were done by War Mapping Field Party No. 1 under the direction of Lieut. Comdr. Wm. D. Patterson in the Spring and Summer of 1942.

PHOTOGRAPHS:

Photographs were taken with the U. S. Coast & Geodetic Survey nine lens camera (focal length 8¼"), to an approximate scale of 1:20,000. Additional single lens photographs were taken by a commercial firm with a special single lens aerial mapping camera (focal length 4"). These single lens photographs were taken at scale 1:60,000 and enlarged to scale 1:20,000.

CONTROL:

There are two U. S. Coast & Geodetic Survey triangulation stations that fall within the detailed limits of the map manuscript. They are:

Gumboro, (Del.) 1932 1942
Pittsville East Base, (Md.) 1932

Three other triangulation stations used for the control of secondary points and detail on this manuscript fall outside the detailed limits. They are:

Frankford, Tank (Del.) 1942
Norman, (Md.) 1942 1932
Bishops Tank, (Del.) 1932

RADIAL PLOT:

A combined radial plot involving surveys Nos. T-8102, T-8103, T-8124 and T-8125

RADIAL PLOT: (cont'd)

was run July 8, 1942, by the usual celluloid template method. The number of control stations permitted good intersections on the secondary control points, and the result was a very satisfactory plot. The secondary control points picked on the 20,000 scale photographs were used in radially plotting additional detail points.

Several of the photographs were slightly tilted. To obviate the necessity of computing the amount of tilt, radial cuts from center chambers of tilted photographs were discarded.

However, the amount of tilt of photograph No. 8721 was computed and found to be 2 degrees, 31 minutes. Since there was adequate coverage by other photographs, this photograph was not used in detailing or radially plotting detail points on this map manuscript.

HYDROGRAPHIC SIGNALS:

There are no navigable water areas within the limits of this survey.

RECOVERABLE HYDROGRAPHIC OR TOPOGRAPHIC STATIONS:

No Recoverable Topographic Stations are included in the area covered by this survey.

AZIMUTH MARKS:

The geographic position, on form No. 524, of Azimuth Mark Gumboro (Del.) 1942, is submitted with this report.

DETAIL:

Scale plots were run for the entire area included by sub-project CS-278-B. This was a great aid in detailing, as the scale selected for the projections was very close to the average scale of the photographs.

Buildings: With the exception of small out-buildings and those marked for deletion by the field inspection, all discernable buildings have been shown on the map manuscript. It is probable that in the course of the field edit some buildings will be found to be superfluous. It is recommended that such buildings be deleted at that time.

Roads: All roads were detailed by using a single line to represent the center line of the road. For the sake of clarity, certain road intersections were shown by double full lines, 0.5mm apart. Roads were classified according to the field inspection which followed military specifications, plate 42-2194, Engineer Reproduction Plant, the Army War College, dated January 12, 1942.

Wooded & Cultivated or Cleared Areas: The demarcation between wooded and cultivated or cleared areas and between wooded areas having different characteristics, is shown by a long dash line. Cleared areas within wooded areas are indicated by the symbol (CL). Wooded areas were classified according to the field inspection, which followed military specifications. Wooded areas not classified by the field inspection are shown with the symbol (T).

DETAIL: (cont'd)

Drainage: Drainage was detailed according to field inspection, except where stereoscopic examination of the photographs indicated additional drainage. Perennial drainage is shown by a full line, intermittent drainage by a line broken with three dots, and drainage located by stereoscopic examination of the photographs is indicated by a dash-dot-dash line.

Marsh Areas: Marsh lines and limits of navigation have been indicated by a light full line. The inner boundaries of marsh areas have been indicated by a short dash line where they were located by actual field inspection. Where field inspection was lacking, the photographs of the area were examined stereoscopically, and the marsh limits are indicated by the extent of the marsh symbol. Appropriate notes have been made on the discrepancy overlay concerning any differences between the field inspection and office interpretation.

Political Boundaries: Political boundaries are shown according to the field inspection. The boundary lines are shown by a long dash and two short dashes on the back of the map manuscript in blue acid ink.

COMPARISON WITH PREVIOUS SURVEYS:

No copies of previous surveys were available to the compilation office for purposes of comparison.

JUNCTIONS:

Control points along the marginal areas of this survey common with Survey No. T-8102 to the west, No. T-8125 to the South, and T-8101 to the East. Junctions with these surveys are satisfactory. Along the junction with Survey No. T-8103, several small discrepancies have been noted on the map manuscript. The detail at points requiring minor adjustments has been extended a short distance beyond the detail limits so as to facilitate minor corrections to Survey No. T-8103.

REMARKS:

All discrepancies between field inspection photographs and any omissions or differences between the field inspection and office interpretation are indicated on the accompanying discrepancy overlay.

HORIZONTAL ACCURACY:

Well-defined points of detail on this map manuscript are believed to be located within the limits of error as defined in paragraph 54 of instructions for this project dated March 4, 1942. See horizontal accuracy test in field edit report in following pages.

RECOMMENDATION FOR FUTURE SURVEY:

The detail as presented on this map manuscript is believed to be complete, but is to be field edited for corrections, additions, and deletions.

Respectfully submitted,

Charles N. Hamilton

Charles N. Hamilton
Photogrammetric Aid

Reviewed by,

William H. VanLoon
Sr. Photogrammetric Aid

and

Carl W. A. Supp
Carl W. A. Supp
Jr. Topographic Engineer

Approved, *11/17/42*

L. W. Swanson
L. W. Swanson, Lieutenant
U. S. Coast & Geodetic Survey

Approved & Forwarded,

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

FIELD EDIT REPORT
QUADRANGLE T-8102
Project CS-278-B
F.L.Gallen, Chief of Party

1. The land area on this sheet consists of wooded and cultivated areas about equally distributed and a large all weather swamp at the north section of the sheet.
15. The bridge classification was done in accordance with the instructions.
17. Political boundaries were obtained from maps issued by the Delaware and Maryland State Roads Commissions and were verified in the field. ✓
18. Geographic names were taken from a special report CS-278-B ✓
46. All additions, deletions and corrections were made on the map manuscript, and transferred to a smooth copy after the completion of the field edit work.

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

<u>FEATURES</u>	<u>COLORS</u>
Additions, bench marks, wye level elevations	Black
Deletions	Green
Drainage features	Blue
Political boundaries	Purple

47. The position and amount of detail on this manuscript is complete and accurate.
48. For data on the horizontal accuracy for this sheet, see attached report. For a vertical accuracy test refer to descriptive report T-8101.

Submitted by

Orvis N. Dalbey jun 29.
Orvis N. Dalbey,
Photogrammetric Aid.

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

TESTS FOR HORIZONTAL ACCURACY
QUADRANGLE NO. T-8102
PROJECT CS-278-B

This test consists of a traverse between Triangulations Station Gumbro (1942), and Triangulation Station Pittsville West Base (1928). The traverse is 6.99 miles in length and contains 19 test points, 3 of which are within the boundaries of this quadrangle. The traverse closure is one part in 5440 and a discrepancy of 1.9 meters was adjusted through the traverse. The test points are referred to in the computations as P. P. (Photograph point number) and the test points are scaled from the map manuscript and referred to as M. M. No.

TABULATION OF TEST POINTS

Description of Point	Test Point Number	Lat.	Long.	Differ- ence in mm.
Inter. of road & road, 90 degrees	P. P. No. 1 M. M. No. 1	38-28-1218.4 38-28-1218.0	75-22-17.9 75-22-10.9	.350
Inter. of road & stream, 75 degrees	P. P. No. 2 M. M. No. 2	38-28-576.0 38-28-573.8	75-22-259.2 75-22-250.4	.453
Inter. of Road & roads, 45 degrees	P. P. No. 3 M. M. No. 3	38-28-149.2 38-28-141.9	75-22-700.5 75-22-696.0	.429
Inter. of road & road, 80 degrees	P. P. No. 4 Not compiled	38-27-1659.3	75-22-700.5	

It may be noted that test point number 4 was not compiled. This point could not be accurately located on the compilation. The remaining three points are all well defined points and the map manuscript error is less than .5 mm at all points tested. The horizontal accuracy of this map is good and within the requirements of the instructions.

Submitted by

Charles Haganick

Approved

F. L. Gallen

F. L. Gallen
Chief of Party

GEOGRAPHIC NAMES LIST FOR T-8102

- ✓ Asherwood Branch
- ✓ Asherwood Swamp - ?
- ✓ Bald Cypress Branch
- ✓ Beaver Hole
- ✓ Bellfield Ditch
- ✓ Big Newfound Neck
- ✓ Birch Branch
- ✓ Burnt Mill Branch
- ✓ Careytown
- ✓ Careytown Branch
- ✓ Careytown Swamp
- ✓ Old Burnt Swamp - Cypress Swamp - *both sides of Lewis Neck*
- ✓ Davis Ditch
- ✓ Davis Swamp
- ✓ Devils Woodyard
- ✓ Gordys Branch
- ✓ Gordys Pond
- ✓ Green Run
- ✓ Gum Branch
- ✓ Gumboro
- ✓ Lewis Neck
- ✓ Little Newfound Neck
- ✓ Longridge
- ✓ Longridge Branch
- ✓ Longridge Swamp
- ✓ Middle Branch
- ✓ Murray Branch
- ✓ Newfound Branch
- ✓ Newhope
- ✓ Newhope Branch
- ✓ Newhope Pond
- ✓ North Fork
- ✓ Old Line Ditch
- ✓ Pine Ridge
- ✓ Pine Ridge Branch
- ✓ Pine Ridge Swamp
- ✓ Pocomoke River
- ✓ Sandy Branch
- ✓ South Fork
- ✓ Sussex County
- ✓ Ten foot Ditch - *Grays Prong (USG B. decision)*
- Bethel
- ✓ Westwoods
- ✓ Whaleysville
- ✓ Whaleysville Branch
- ✓ Willards
- ✓ Wicomico County
- ✓ Worcester County

Names Found in Geographic Names
Report, not shown on Compilation

Campbell Ditch Run(Aydelotte Branch R)

Remarks.

No. 1
Decisions

1		379756-57
2		
3		
4		
5		383753
6	Recent decision	" USGB
7		"
8	<i>Limits not visible on photos - omit name REE</i>	"
9	Recent decision	" USGB
10		"
11	Recent decision	384751 USGB
12	" "	" "
13	" "	384752 "
14	Name OK if feature exists	383752
15		"
16		383753
17		"
18	<i>Not visible on photos omit name REE</i>	"
19	Name OK if feature exists	"
20		"
21	Name OK if feature exists	"
22		"
23		384753
24		"
25		"
26	Recent decision	" USGB
27	" "	" "
M 234		

GEOGRAPHIC NAMES

Survey No. T-8102

WHALEYSVILLE quadrangle

No. 1 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.	
<u>Pocomoke River</u>	✓								1
<u>Sussex County</u>	✓								2
<u>Worcester County</u>	✓								3
<u>Wicomico County</u>	✓								4
<u>Whaleysville</u>	✓								5
<u>Whaleysville Branch</u>	✓								6
<u>Newhope</u>	✓								7
<u>Newhope Pond</u>	not shown								8
<u>Burnt Mill Branch</u>	✓								9
<u>Willards</u>	✓								10
<u>Birch Branch</u>	✓	(to north)							11
<u>Middle Branch</u>	✓	(to south)							12
<u>Cypress Swamp</u>	✓	(both sides of Lewis Neck)							13
<u>Longridge Swamp</u>	✓								14
<u>Longridge</u>	✓								15
<u>Longridge Branch</u>	✓								16
<u>Gordys Branch</u>	✓								17
<u>Gordys Pond</u>	not shown								18
<u>Asherwood Swamp</u>	name shown in 8125								19
<u>Asherwood Branch</u>	✓								20
<u>Newhope Branch</u>	not shown								21
<u>Devils Woodyard</u>	✓								22
<u>Green Run</u>	✓								23
<u>North Fork</u>	✓								24
<u>South Fork</u>	✓								25
<u>Bethel</u>	✓								26
<u>Grays Prong</u>	✓								27

T-8102

No. 2

Remarks.

Decisions

1		384753
2		"
3		"
4		384752
5		"
6		384753
7		"
8		"
9		"
10		"
11		"
12	Non-existent?	"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22	Very little on this sheet, south edge	384753
23		Railway Guide
24		Worcester Co. Map
25		"
26		Wicomico Co. Map
27		

GEOGRAPHIC NAMES

Survey No. T-8102

No. 2

Name on Survey

	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>Gum Branch</u>	✓									1
<u>Gumboro</u>	✓									2
<u>Bald Cypress Branch</u>	✓									3
<u>Lewis Neck</u>	✓									4
<u>Sandy Branch</u>	✓									5
<u>Pine Ridge</u>	✓									6
<u>Pine Ridge Swamp</u>	✓									7
<u>Pine Ridge Branch</u>	✓									8
<u>Bellfield Ditch</u>	✓									9
<u>Beaver Hole</u>	✓									10
<u>Murray Branch</u>	✓									11
<u>Davis Swamp</u>	✓									12
<u>Davis Ditch</u>	✓									13
<u>Careytown</u>	✓									14
<u>Careytown Swamp</u>	✓									15
<u>Careytown Branch</u>	✓									16
<u>Old Line Ditch</u>	✓									17
<u>Big Newfound Neck</u>	✓									18
<u>Newfound Branch</u>	✓									19
<u>Little Newfound Neck</u>	✓									20
<u>Westwoods</u>	✓									21
<u>Double Bridge Branch</u>										22
<u>Baltimore and Eastern R.R.</u>	✓									23
<u>No. 9 West Berlin</u>	✓									24
<u>No. 5 St. Martin</u>	✓									25
<u>No. 14 Willards</u>	✓									26
										27

Names underlined in red approved
by L. Heck on 11/28/43

name shown in 8125

DIVISION OF CHARTS

SURVEYS BRANCH

Review of Air Photographic Survey T-8102
(Whaleysville Quadrangle) February, 1943

This and the adjoining air photographic surveys were made for the preparation of topographic quadrangles for the War Department. The main divisions of the field surveys and office compilation in preparing these quadrangles are listed as follows for future reference:

FIELD WORK

1. Air photography
2. Field inspection for the identification of control and for the classification and clarification of planimetric details on the photographs.
3. Leveling and contouring: Contouring was accomplished by planetable directly on prints of the air photographs.

PHOTOGRAMMETRIC OFFICES

4. Compilation of all planimetric details and of contours from the photographs onto a celluloid manuscript: This compilation of details was accomplished for all of the war mapping quadrangles in either the Baltimore or Tampa Photogrammetric Office.

FIELD WORK

5. Field edit and completion surveys: Upon completion of the manuscripts, prints were furnished to the field party for ground examination of the maps as to completeness. Necessary corrections were made by planetable. These surveys included systematic horizontal and vertical accuracy tests which are recorded in special reports.

WASHINGTON OFFICE

6. Review: Following the field edit the maps were reviewed in the Washington Office as regards conformance to specifications and to prepare them for smooth drafting.
7. Drafting and reproduction: Smooth color separation drawings were made on metal-mounted blue lines and the quadrangles were printed from these drawings.

The check list containing a record of all work in the Washington Office is filed in the Photogrammetric Section.

The map manuscripts were compiled at the scale of 1:20,000 and include information of interest to this Bureau, not all of which was shown on the printed quadrangle. For this reason a cloth back copy of the rough drawn manuscript will be filed in the vault, together with a cloth back copy of the printed quadrangle.

For political boundary, woodland, marsh, and swamp limits, refer to the printed quadrangle for the finally adopted positions.

Contemporary Hydrographic Surveys

None

Comparison with Previous Topographic Surveys of this Bureau

None.

Comparison with Nautical Charts

No Nautical Charts cover this area

Comparison with Published Quadrangles

"Pittsville" (1:62,500) U.S.G.S. 1902

There are no large discrepancies, except in position of the 40 foot contour. This is not considered significant because of the slope of the terrain is very slight and small errors in elevation would cause a large displacement. T-8102 is adequate to supersede the Pittsville Quadrangle throughout the area that it covers.

Radial Plot and Detailing

No revision of the radial plot was necessary. The natural drainage in Cypress Swamp is not very definite and cannot be positively identified on the photographs. Inasmuch as the area is very flat and swampy, it was considered best to omit drainage details.

Reviewed under direction of D. H. Benson

Inspected by R. M. Berry *and B.G. Jones.*

Robert W. King

Chief, Surveys Branch

K.T. Adams

Chief, Section of Topography

J.S. Borden

Chief, Division of Charts

G. H. Rude

Chief, Division of Coastal
Surveys