

8106

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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic

Field No. _____ Office No. T-8106

LOCALITY

State Maryland

General locality Chesapeake Bay

Locality Mardela Springs Quadrangle

N3822.5-W7545/7.5

194 2

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

Lieut. Comdr. F. L. Gallen

LIBRARY & ARCHIVES

DATE _____

DATA RECORD

T- 8106

Quadrangle (II): Mardela Springs

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

Field Office: Salisbury, Maryland Chief of Party: F. L. Gallen

Compilation Office: Tampa, Fla. Chief of Party: K. G. Crosby

Instructions dated (II III): March 4, '42 Copy filed in Descriptive
March 27, 42 Report No. T- (VI)
August 13, 1942.

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: 4/27/43 Applied to chart No. Date:

Redrafting Completed:

Registered:

Published:

Compilation Scale: 1:19,640

Published Scale:

Scale Factor (III): 1.018

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

Reference Station (III): Vienna 1934 (1942)

Lat.: $38^{\circ}28'50.708$ (1563.5m) Long.: $75^{\circ}49'43.399$ (1051.9m) Adjusted x
Unadjusted

State Plane Coordinates (VI):

Maryland coordinate system (Single zone)

X = 1,135,294.87

Y = 237,924.83

Military Grid Zone (VI) A

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Mean Scale</u>	<u>Stage of Tide</u>
8656	4/14/42	10:52 A.M.	1:19,640	+ 0.7 ft.
8657	"	10:54 A.M.	1:19,640	+ 0.8 ft.
8793	"	3:03 P.M.	1:19,640	+ 3.1 ft.
8794	"	3:04 P.M.	1:19,640	+ 3.1 ft.
8795	"	3:05 P.M.	1:19,640	+ 3.1 ft.

Tide from (III): Predicted tables for: Vienna, Nanticoke River, Md.

Reference Station: Hampton Roads, Va.

Mean Range: 3.0 ft.

Spring Range: 3.6 ft.

Camera: (Kind or source) U.S.C. & G. S. Nine-lens (focal length 8 1/4 in.)

Field Inspection by: H.C.Eldridge, T.A.Zary, J.C.Lajoye, date: April and May

Field Edit by: C. C. Fryer

date: October 1942

Date of Mean High-Water Line Location (III): April 14, 1942.

Projection and Grids ruled by (III)

date:

" " " checked by:

date:

Control plotted by:

L.C.Bonham

date: June 1942

Control checked by:

A.L. K.

date: June 1942

Radial Plot by: Personnel of Tampa Office

date: July 1942

Detailed by:

L.C.Bonham

date: July & August

Reviewed in compilation office by: A.L.K., J.H.S.B.

date: August 1942

Elevations on Field Edit Sheet

checked by: Salisbury Field Office

date: September 1942

STATISTICS (III)

Land Area (Sq. Statute Miles):	54.5
Shoreline (More than 200 meters to opposite shore):	29.0
Shoreline (Less than 200 meters to opposite shore):	75.0
Number of Recoverable Topographic Stations established:	6
Number of Temporary Hydrographic Stations located by radial plot:	NONE
Leveling (to control contours) - miles:	53.0

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:

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-8106

GENERAL

This sheet was compiled in accordance with "Instructions for Defense Mapping Project CS-278", dated March 4, 1942.

The general locality of the area covered by this quadrangle is Maryland, Chesapeake Bay, vicinity of Mardela Springs.

The land area of this quadrangle is comprised of cultivated fields, marsh land and wooded areas.

All large and permanent buildings have been shown.

Roads have been shown by a centerline and should be smooth drafted 0.5 millimeter in width. Streets have been double-lined and have been rough drafted 0.5 millimeter wide if less than 30 feet wide.

CONTROL

Seven triangulation stations lie within the boundaries of this quadrangle and were used for control and are as follows:

<u>NAME OF STATION</u>	<u>YEAR</u>	<u>ESTABLISHED BY</u>
Vienna	1934	John Bowie, Jr.
Vienna Water Tank	1942	W. D. Patterson
West Transmission Tower	1942	W. D. Patterson
East Transmission Tower	1942	W. D. Patterson
Horsman	1934	John Bowie, Jr.
Hatton	1934	John Bowie, Jr.
Jenkins	1934	John Bowie, Jr.

Geo. Lovelace

MAIN RADIAL PLOT

A continuous radial plot was run on July 6, 1942, for the purpose of locating all photograph centers, hydrograph and topographic stations, bench marks, azimuth marks and radial points. The plot extended over the entire area covered by quadrangles ~~7, 8, 21 and 22.~~

8106, 8107, 8120 and 8121

The plot consisted of 18 templates. Six templates had from 10 to 15 control stations within their limits, namely: 8789, 8790, 8792, 8793, 8799, 8653; the remaining templates had from 4 to 10 control stations within their limits. All templates not rigidly fixed by triangulation control were laid by holding to well established points which had been determined by radial intersections of previously laid and well controlled templates.

The usual practice of laying the main radial plot was followed. Control was plotted and checked on the survey sheets and then transferred to the base grid sheets by matching individual squares. The amount of adjustment in each grid was negligible. The grid sheets were taped to the plotting table and allowed to remain for 24 hours before any templates were laid. Prior to laying the templates, the base grid sheets were examined for movement, and readjusted if any movement had taken place.

Excessive tilt was found in several photographs, the worst condition existing in photographs 8793, 8794, 8795 and 8801.

All points located by the radial plot were transferred and checked on the survey sheet by matching individual grid squares.

Various colored inks were used on the photographs and the survey sheet to designate triangulation stations, traverse stations, topographic and hydrographic stations, etc. The following key is furnished for reference:

Photographs

Triangulation and Traverse Stations.....2.5 mm blue circle
Hydrographic and Topographic Stations.....2.5 mm green circle
Radial Points in Main Plot.....2.5 mm red circle
Radial Points (additional).....3.5 mm red circle
Photograph Centers.....Double White Circle

Survey Sheet

Triangulation and Traverse Stations.....3.5 mm high black triangle
Hydrographic and Topographic Stations.....2.5 mm black circle
Radial Points on Main Plot.....2.5 mm purple circle on back of sheet
Radial Points (Additional).....3.5 mm purple circle on back of sheet
Photograph Centers.....Double purple circle on back of sheet

INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and no trouble was experienced in their interpretation, although the scale was poor in all but one photograph.

FIELD INSPECTION

The field inspection was made by H. M. Eldridge, T. A. Zary and J. C. Lajoie during April and May 1942.

The field classification of vegetation was sufficient so that the draftsman could estimate those areas that were unclassified; however, these areas should be checked in the field before smooth drafting.

The inspection of class 1, 2 and 3 roads was complete, but the majority of the class 4 and 5 roads were labeled without benefit of field inspection.

In several areas the drainage has been labeled P.D.U. (probable drainage unsurveyed), and should be checked in the field.

Additional inspection is needed to locate the various sidings in the railroad yard northeast of Vienna and to determine the location of the power line northwest of Mardela Springs. The position of the mill-pond dam $3\frac{1}{2}$ miles south of Mardela Springs should also be investigated.

Also, all schools, churches, cemeteries, saw mills, etc. should be located in the field.

The legend used by the field inspection party and the draftsman has been made a part of this report.

TOPOGRAPHY

All contours on the sheet are shown in red ink.

NON-FLOATING AIDS

There are no non-floating aids on this sheet.

JUNCTIONS

This sheet joins T-8105 on the East, T-8121 on the South and T-8107 on the West. The junctions with T-8107 and T-8121 are very good. The junctions with T-8105 do not agree in several places. This is due to the fact that photos and base grids for T-8105 were not available when the radial plot was run.

COMPARISON WITH OTHER SURVEYS

Due to large scale differences, no accurate comparison of this with other surveys could be made.

GEOGRAPHIC NAMES

The geographic names used on the sheet were taken from the Maryland Road maps of Dorchester and Wicomico Counties. Additional names are needed for various creeks and points on the Nanticoke River.

LANDMARKS

There are no prominent landmarks on this sheet.

Respectfully submitted,

Lawrence C. Bonham

Lawrence C. Bonham
Photogrammetric Aid

Forwarded by:

Kenneth G. Crosby
Kenneth G. Crosby,
Chief of Party....

ABBREVIATIONS

ROADS

W	—	Width (feet bet. shoulders)
P	—	Private road
OP	—	Overpass
UP	—	Underpass
X	—	Abandoned trail, road, etc.
RR	—	Railroad tracks; as 2 tracks

WOODS CLASSIFICATION

Density Classification

1	—	Scattered
2	—	Thinly wooded
3.	—	Heavily wooded
4	—	Densely wooded

Types of woods

D	—	Deciduous
P	—	Evergreen and pine
R	—	Brush
S	—	Scrub
Y	—	Cypress
L	—	Young trees (LP—young pines LD—young deciduous trees)

SHORE LINE

HWL	—	Mean high water; fast land
LWL	—	Low water line
LL	—	Light line; marsh shore line
M	—	Marsh inshore limits
MW	—	Marsh grass in water
Dk	—	Dock
Pier	—	Pier
Se W	—	Sea wall
Bkhd	—	Bulkhead
Jet	—	Jetty
Dol	—	Dolphin
Pile	—	Pile
S	—	Sand
Mud	—	Mud
Rk	—	Rock or rocky
Sty	—	Stony
Conc	—	Concrete
Wo	—	Wood
Blf	—	Bluff
Dune	—	Dune

BOUNDARIES

F	—	Fence
Sty F	—	Stone fence
F B	—	Fire Break
Hdg	—	Hedge
Park	—	Park
Cem	—	Cemetery
Co	—	County
Md.	—	Maryland
Va.	—	Virginia
Bdy	—	Boundary

VEGETATION

C	—	Cultivation
Gr	—	Grass

BUILDINGS

Ho	—	House
Ba	—	Barn
Sh	—	Shed
Bldg	—	Building
Bo Ho	—	Boat House
Ch	—	Church (give name)
Ct Ho	—	Court House (give name)
P O	—	Post Office (give name)
Sch	—	School (give name)
Hos	—	Hospital (give name)
RR Sta	—	Railroad station
Sto	—	Country store or gas sta.
P Sta	—	Power Station
Ck H	—	Chicken House
D	—	Dwelling

LANDMARKS

FT	—	Fire tower
TT	—	Transmission tower
RT	—	Radio Tower or mast
Air Bn	—	Airway beacon
Bn	—	Non-lighted aid to navigation
Lt	—	Lighted aid to navigation
Tk	—	Low tank
Tk elev	—	Tall tank
Stk	—	Stack

STREAMS, PONDS & BRIDGES

D	—	Largest ditches only
DX	—	Small
IS	—	Intermittent stream
PD	—	Probable drainage
Cr	—	Creek
Ca	—	Canal
Brg	—	Bridge, (capacity & clearance)
Cv	—	Culvert (capacity)
Lev	—	Levee
Dam	—	Dam
P	—	Pond
IP	—	Intermittent pond

ROAD CLASSIFICATION FOR MAPS OF ALL SCALES

CLASS	LABEL	STRUCTURE	LOADING
1	Dependable hard-surface heavy duty road.	Concrete, asphaltic concrete bituminous Macadam, H-15 type structures.	Will bear heaviest loads with little maintenance.
2	Secondary, hard-surface all-weather road.	Surface-treated, oiled gravel, waterbound Macadam, structures generally lighter than H-15 but sturdy.	Will bear fairly heavy military loads in all weather if maintained.
3	Loose-surface graded, dry-weather road.	Gravel or stone surface, stable material, selected sand-clay, etc. Drained and graded.	Will bear light military loads in good weather.
4	Unimproved road.	Graded and drained earth, with very light structure.	Generally unsuitable for military loads.
4U	Truck road	Woods roads, farm roads, etc. over which a standard gage vehicle can be driven.	
5	Trail	(Horse trails, foot trails, etc.)	

Roads with more than two (2) lanes are indicated by note along road, e. g. 3 LANE. Change in lanes shown by tick at point of change. Main roads have two lanes unless otherwise marked.

Private roads are designated by the letter P after the road classification.

WOODS CONCEALMENT CLASSIFICATION

Class A: Trees over 10' high and thick enough to hide troops.

Class B: Brush thick enough to hide troops but dense enough to impede progress.

Class C: Scattered brush thick enough to hide troops but not thick enough to impede progress.

DESCRIPTIVE REPORT TO ACCOMPANY
T-8106 MARDELA SPRINGS QUADRANGLE
PROJECT CS-278-C

WAR MAPPING PARTY NO. 1

F. L. Callen, Chief of Party

Field Inspection and Field Edit Report

DESCRIPTION OF AREA

This area is comprised of from flat to slightly rolling terrain of which approximately 70 percent is covered by second growth timber and brush with the greater part of the timber being mixed pine and deciduous trees. The greater part of the brush is fairly heavy growth of deciduous trees. Approximately 25 percent of the area is comprised of cultivated and pasture land. Approximately 5 percent of the area is comprised of marsh land lying adjacent to, and on the right bank of the Nanticoke River, which traverses the entire length of this area.

This area has the towns of Vienna, on the Nanticoke River, and Mardela Springs near the eastern limits of the area. The population of each town is approximately five hundred people.

This area is traversed by two first class roads and several secondary roads that may be traveled at any season of the year.

This area is traversed by several drainage systems, two of which are good sized creeks, tributaries of the above mentioned Nanticoke River.

FIELD INSPECTION OF AIR PHOTOS

Field inspection of the Photographs was done in two steps. The first step constituted the location of the horizontal and vertical control points on the photographs.

The second step of the field inspection constituted the classification of shore line, shipping facilities, roads, woods, buildings, landmarks, etc.

The photograph numbers used in this field inspection are: Single lens numbers 10115, 10119, 10121, 11449, 11450, 11451, 11452, 11453, 11454, and 9 lens numbers 8655, 8656, 8657, 8793, 8795.

VERTICAL CONTROL

Permanent Bench Marks had been previously established along many of the roads in this area. These bench marks were supplemented by a series of level lines, run with a wye level, run over the remaining roads, from which temporary bench marks were established, supplemented by numerous elevations taken at road intersections.

For the most part the error of closure in each loop was less than .40 of a foot. Any error of closure from .40 to 1.00 foot was adjusted and any error of closure greater than 1.00 foot was reflected and the loop re-run. All elevations on bench marks were computed to the hundredth. All road intersections and other points were computed to tenths.

All levels run in this area was done by W. A. Rasure, Senior Photogrammetric Aid, and Gordon Bowker, Photogrammetric Aid. Photographs used were numbers 10117, 11451, 967, all single lens and 8795 a 9-lens photograph.

The level party consisted of four men - observer, note keeper, and two rodmen.

CONTOURING

The contouring was done on 9 lens photographs, scale 1:20,000, numbered 8656, and 8657. The work was done with planetable and telescopic alidade. (The methods used have been previously described under the heading "Survey Methods.")

This work was done by L. G. Chambers, Senior Photogrammetric Aid.

SURVEY METHODS

Horizontal and vertical control stations were identified on three single lens and one nine lens photographs that covered this area. All stations were picked on the photographs in accordance with the first method as described in paragraph 10 of the instructions.

Wye levels were controlled horizontally by picking the vertical control points on the photographs. Wye level elevations and positions were transferred to the 9 lens photographs for the purpose of topographic surveys.

All contours were run on nine lens photographs. There were very few planetable traverses run in this area, since most all of the points on the photographs were readily identifiable and most cases the position of the planetable could be determined from inspection of the photograph.

All of the contours appearing on this sheet are of 20-foot elevation.

All elevations used in interpolating contours in this area were obtained by use of the planetable and telescopic alidade by using the direct leveling or vertical angle method of obtaining the elevation.

The topographic party consisted of four men - a topographer, a planetable man, and two rodmen.

FIELD EDIT

All symbols used were according to U. S. Geological Survey Bulletin Number 788, and from instructions issued by the Chief of Party dated August 12, 1942. The position of all added detail was determined by measuring from well defined detail and by planetable traverse.

All level and planetable elevations were checked in the office before the field edit was started.

A. Boundaries

Boundaries of the political subdivisions were transferred to the map manuscript from Census Bureau Maps and checked in the field.

B. Buildings

All buildings not shown on the map manuscript were located by measuring from definite points on the manuscript. All public buildings, schools, churches, post offices, and railroad stations were located, and cemeteries were likewise located if large enough to shown on the map manuscript. Dwellings were not identified but all other buildings in rural areas were classified.

C. Bridges

All bridges in this area were classified as to load capacity horizontal and vertical clearance, by C. C. Fryer, in accordance with special instructions dated July 23, 1942, and issued by the War Dept.

D. Roads

All roads were classified with the exception of some few short private roads.

E. Woods

The woods areas were classified for types of trees, density, and concealment.

F. Drainage

The drainage is essentially the same as shown except in some instances, where drainage shown was interpreted in the field as intermittent drainage, and some few cases of probable drainage unsurveyed was classified as intermittent drainage.

G. Marsh Areas

No changes were made in the marsh classification except in the case of the area along Barren Creek south of the town of Mardela Springs. A lake of considerable size exists in this area.

H. Shoreline

The shoreline remains as shown on the map manuscript. There are no docks, wharves, or marine railways in this area.

I. Aids to Navigation

There are no floating or non-floating aids to navigation in this area.

J. Landmarks for Charts

There are no landmarks for charts in this area.

K. Power Lines

Positions of power lines were determined in the field. Both the Eastern Shore Public Service Commission and the Rural Electrification Association have a network of lines spread over this area.

L. Geographic Names

Geographic names were investigated by A. J. Wraight, Photogrammetric Aid. The names shown on this map manuscript were taken from the completed Nanticoke Quadrangle geographic names sheet forwarded to the Washington Office on September 30, 1942.

ADEQUACY OF THE COMPILATION

This map manuscript joins T-8105 on the east, T-8107 on the west, and T-8121 on the south. The junctions were checked and were in agreement on the north, west, and south, but the junction on the east was very poor in the area near Mardela Springs.

To attempt to correct this discrepancy in the junction at this point, planetable traverse was used to determine points in this area where detail could be proven to be correct.

As noted on the sketch which accompanies this report, the point "a" was selected as a strong detail point. Planetable traverse was run to the intersection of road and railroad "a'". This distance was found to be short of "a'" by 16 meters. Point "b" was selected as a strong detail point and planetable traverse was run to "b'" and this distance was found to be 20 meters long. Planetable traverse was then run along U. S. High-

way No. 213 west until the junction with the manuscript detail was found at point "c". Planetable traverse was run from "b'" north across the sheet, on to T-8105 and a tie made with the plotted detail at "d". The junction with the compiled detail on T-8105 was found to be within the limits of allowable error. Planetable traverse was run along the U. S. Highway 213 to the starting point "b'".

From this it is evident that all the detail in, and adjacent to the town of Mardela Springs should be shifted southward at point "a'" 16 meters, at point "b'" 20 meters, point "e" 10 meters, and at point "f" 10 meters.

REMARKS

It is believed that all data on this manuscript is complete and correct. There are no vertical or horizontal accuracy tests on this sheet. Refer to descriptive reports for quadrangles T-8105 and T-8108 for horizontal accuracy test.

Submitted by,

C.C. Fryer by.

Emil H. Busch.

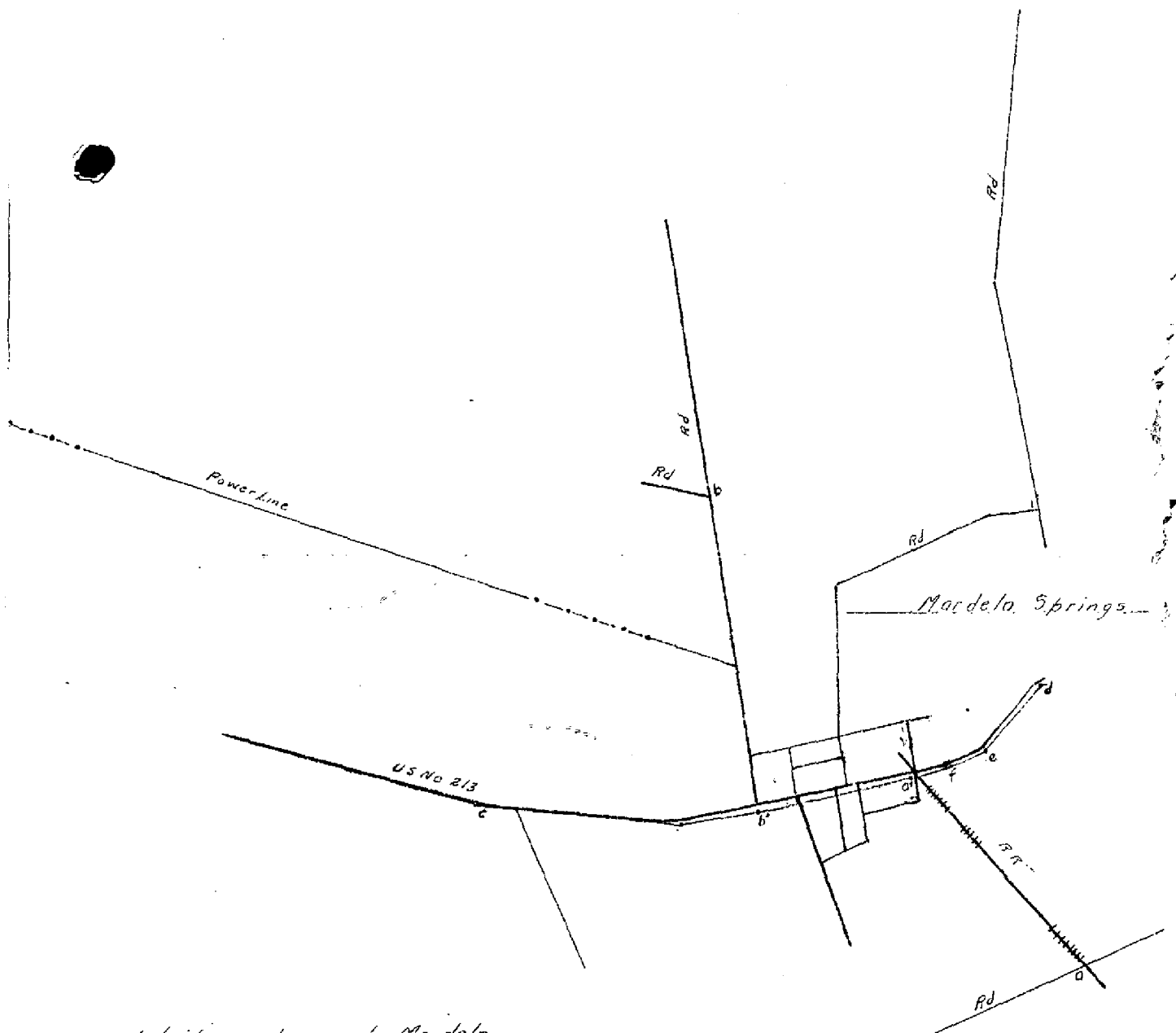
C. C. Fryer,
Senior Photogrammetric Aid

Approved

F. L. Gallen.

F. L. Gallen
Chief of Party

*The N.E. quarter of T-8106
was replotted and rechecked
by the Tampa office after this
report was received.*



Sketch of detail in and around Mardela Springs showing shift in center line of U.S. Highway No. 213. All detail to shift accordingly

—— New centerline of Highway No 213

T-8106

626-RGR

December 22, 1942

To: Lieut. Comdr. Kenneth G. Crosby,
U. S. Coast and Geodetic Survey,
1101 East Broadway,
Tampa, Florida.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Correction of Quadrangle T-8106, Project 278-C.

The celluloid manuscript for quadrangle T-8106 is being returned to you for revision of details in the vicinity of Mardela Springs. T-8106 as submitted to this office failed to join quadrangle T-8105 in the vicinity of Mardela Springs and the planetable traverse by the field edit party indicates that the error is in quadrangle T-8106.

A new projection was made in this office and the radial plot was relaid with the intention of correcting T-8106. However, it appears that the revision will cover a rather considerable area in the northern half of the quadrangle and because of shortage of personnel in this office it is being returned to you for completion.

The following data are being forwarded to you:

1 Package by express

Single Lens Prints

9-67	11-448
9-71	11-449
9-73	11-450
10-113	11-451
10-116	11-452
10-117	11-453
	11-454

Nine Lens Field Prints

8655	8665
8656	8793
8657	8795

December 22, 1942

Nine Lens Office Prints

8655	8663
8656	8664
8657	8793
8658	8794
8662	8795

1 Package by registered mail

- 1 Celluloid manuscript T-8106
- 1 New projection on celluloid
- 1 Descriptive Report T-8106
- 28 Pricking cards

You will please correct the details of T-8106 in the vicinity of Mardela Springs and extend the corrections outward from Mardela Springs until proper closure is obtained with the details on the original manuscript. It is assumed that such a closure will be effected within the area of T-8106. However, adjoining quadrangles and additional photographs will be forwarded to you if required. The plot as laid in this office indicates that T-8105 on the east is correct and will not need revision. Details of the junction between T-8105 and T-8106 are shown on the manuscript for T-8106.

The new work may be compiled directly on the new projection and need not be transferred to the original manuscript T-8106. The corrected work on the new projection and the acceptable work on the original manuscript for T-8106 will be put together in this office.

Acting Director.

GEOGRAPHIC NAMES LIST FOR T-8106

Athaloo Landing
Athel
Athel Neck
Barren Creek R (Baron Creek)
Barren Creek Point
Beaverdam Swamp
Big Ridges
Birdcage Creek
Bridge Creek
Bridge Thoroughfare
Campbel's Wharf
Chapters Point
Devils Woodyard
Den Creek
Farrington Neck
Ferry Point
Grimes Creek
Henrys Crossroads
Holland's Crossroads
Ingem's Out
Jenkins Landing
Krafts Neck
Lewis Landing
Little Creek
Little Ridges
Little Thoroughfare Creek
Little Thoroughfare
Mardela Springs
Mare's Branch
Marshalls Point
Mill Branch
Nutters Neck
Muir Creek
Otter Pond Branch
Peach Orchard Creek R (Cow Creek)
Panknife Point
Point No Point
Pole Point
Quantico Creek
Rabbit Town
Rags Thoroughfare
Renanco Creek
Renonco Creek (Manumco Creek R)
Rewastico Pond
Rewastico (The Settlement)

Rewastico Creek
Round Island
Round Island Gut
Sageberry Swamp R(Sage Brush Swamp)
Sandy Gut
Stump Gut
Stump Point
The Inlet
Tom Fitchs Gut
Tom's Gut
Vienna
Wapremander Creek

LIST OF NAMES SHOWN IN GEOGRAPHIC NAMES
LIST NOT SHOWN ON T-8106 COMPILATION

Butlers Beach

Creek Marsh

Creek Point

Hollands Wharf

Island Pond

Mill Creek

Owens Creek

Peach Orchard Landing

Red Fin Creek

Spring Grove

HYDROGRAPH

Number	Date	Time	Stage of Tide
8656	4-14-42	10:52 A.M.	+ 0.7 ft.
8657	"	10:54 A.M.	+ 0.8 ft.
8793	"	3:03 P.M.	+ 3.1 ft.
8794	"	3:04 P.M.	+ 3.1 ft.
8795	"	3:05 P.M.	+ 3.1 ft.

Tide from predicted tables for: Vienna, Nanticoke River, Maryland
 Reference Station: Hampton Roads
 Camera: U. S. Coast and Geodetic Survey Nine-Lens (focal length 8 1/2 inches)

SCALE

Map scale of photographs..... 1:19,640
 Scale of Survey Sheet..... 1:19,640

STATISTICS

Area (land).....	54.5	Square statute miles
Shoreline (more than 300 m. from opposite shore)...	29	Statute miles
Shoreline (creeks).....	75	Statute miles
Roads, streets, trails, and railroads.....	131	Statute miles

REFERENCE STATION

Station:	Vienna 1934 (1942)	Latitude:	38° 28' 50.708 (1563.5 m.)
Date:	N.A. 1927	Longitude:	75 49 43.7399 (1051.9 m.)

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control surveys.....	LCB, ALK, CLB	June	2½
Planetable Surveys.....			
Total			2½

FIELD INSPECTION

Index			
Preparation of photographs.....	CLB, ALK	June	3½
Field Work.....			
Inking Notes.....			
Const. Pilot Notes.....			
Geographic Name Reports.....	FIELD PARTY		
Land Marks for Charts.....			
Description Cards.... and			
Recovery Notes.....			
Total			3½

MAIN RADIAL PLOT

Scale Plot.....	LCB, CLB	June	2½
Projection on Base Sheet.....	JHSB	July	1
Projection on Survey Sheet.....	-		
Control Plotted.....	LCB	June	1
Control Checked.....	ALK	June	½
Control Trans. to Base Sheet.....	LCB	July	½
Transfer Checked.....	ALK	July	½
Control Picked on Photograph.....	ALK, CLB, ELM	June	18½
Control Checked on Photograph.....	CHW, CLB	June	5½
Hydro & Topo. Stations Picked.....	X	June	39½
Radial Points Picked.....	LCB	June	14½
Adjacent Centers Picked.....	X	May, June	37½
Templates.....	HAC	June	20
Radial Plot.....	X	July	9
Radial Points Transferred.....	LCB, CHW	July	23½
Transfer checked.....	CHW	July	4
H & T Stations Scaled & Checked....	LCB, ALK	August	6½
Additional Radial Points.....	LCB	July	10½
Investigation of Radial Points....	LCB	July	5½
Total			180

DETAILING

Rough Draft.....	LCB	July, Aug.	135
Smooth Draft.....			
Total			135

COMPILATION

Name Overlay.....	LCB	August	9
Descriptive Report.....	LCB, VFS	August	5
Field Review.....	ALK, JHSB	August	11
Total			25

Total time spent on Sheet.....: 346 hours

X=Several of Office Personnel

T-8106

No. 1

Remarks.

Decisions

1		384757
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10	Referred to USGB: apply this name pending its decision (Decision 12/8/42)	" U.S.G.B.
11		"
12		"
13		"
14		"
15		"
16		"
17		384758
18	Referred to USGB: apply this name pending its decision	" U.S.G.B.
19	" Decisions 11/27/42 " "	" "
20		"
21		"
22		"
23		384759
24		384758 USGB
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8106

MARDELA SPRINGS 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>Mardela Springs</u>	✓	✓							1
<u>Grimes Creek</u>	✓	✓							2
<u>Owens Creek</u>	✓	✓							3
<u>Spring Grove</u>	✓	✓							4
<u>Stump Gut</u>	✓	✓							5
<u>Stump Point</u>	✓	✓							6
<u>Town Branch</u>	✓	✓							7
<u>Mill Branch</u>	✓	✓							8
<u>Athel</u>	✓	✓							9
<u>Athel Neck</u>	✓	✓							10
<u>Creek Marsh</u>	✓	✓							11
<u>Rewastico</u>	✓	✓							12
<u>Rewastico Pond</u>	✓	✓							13
<u>Jenkins Landing</u>	✓	✓							14
<u>Little Creek</u>	✓	✓							15
<u>Mares Branch</u>	✓	✓							16
<u>Vienna</u>	✓	✓							17
Baron									
Barren Creek	✓	✓							18
Baron									
Barren Creek Point	✓	✓							19
<u>Point No Point</u>	✓	✓							20
<u>Athaloo Landing</u>	✓	✓							21
<u>Lewis Landing</u>	✓	✓							22
<u>Beaverdam Creek</u>	○		(not shown)						23
<u>Chicone Creek</u>	○		not located						24
<u>Rabbit Town</u>	✓	✓							25
<u>Ferry Point</u>	✓	✓							26
<u>Bridge Creek</u>	✓	✓							27

	Remarks.	Decisions
1	To north	384758
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15	To south	"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"
M 234		

GEOGRAPHIC NAMES

Survey No. T-8106

No. 2
Name on Survey

On Chart
No.

No.	On previous survey	On U. S.
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On U. S. quadrangle
Maps

From local information

On local Map

P. O. Guide or Map

or Map
Rand McNally Atlas
U. S. 1

U. S. Light List

[illegible]

T-8106

No. 3

Remarks

Decisions

1		383758
2		"
3	Referred to USGB: apply this name pending its decision	" Chapter Pt. by USGB 12/8/42
4	" " " "	"
5		"
6		"
7	Referred to USGB: apply this name pending its decision (Decision 12/11/42)	"
8		"
9	Referred to USGB: apply this name pending its decision (Decision 12/11/42)	"
10		"
11		"
12		"
13		"
14		"
15		3 384757
16		"
17		"
18		382759
19		
20		
21		Dorchester Co. Map
22		"
23		Wicomico County Map
24		"
25	This spelling will have to be used, as the USGB decision for the stream does not affect local government usage.	"
26		
27		
M 234		

GEOGRAPHIC NAMES

Survey No. T-8106

No. 3

Name on Survey

	A	B	C	D	E	F	G	H	K	
Penknife Point	✓	✓								1
Rewastico Creek	✓	✓								2
Marumaco Creek	✓	✓								3
Chapter Point	✓	✓								4
Nutters Neck	✓	✓								5
Quantico Creek	✓	✓								6
Peach Orchard Creek	✓	✓								7
Peach Orchard Landing	✓	✓								8
Wapremander Creek	✓	✓								9
Cedar Cut			not located							10
Chapter Point Marsh	✓	✓								11
Bridge Thorofare	✓	✓								12
Campbels Wharf	✓	✓								13
Jerrys Drain	✓	✓								14
Farrington Neck	✓	✓								15
Sageberry Swamp	✓	✓								16
Cherrywalk	✓	✓								17
Nanticoke River	✓	✓								18
Dorchester County	✓	✓								19
Wicomico County	✓	✓								20
Vienna No. 3 (political subdivision)	✓	✓								21
Drawbridge No. 11	✓	"								22
Tyaskin No. 3	✓	"								23
Quantico No. 2	✓	"								24
Barren Creek No. 1	✓	"								25
										26
										27

DIVISION OF CHARTS

SURVEYS BRANCH

Review of Air Photographic Survey T-8106
(Mardela Springs Quadrangle) - April, 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 manuscript, 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 manuscript was compiled at the scale of 1:20,000 and includes information of interest to this Bureau, not all of which was shown on the printed quadrangle. For this reason a cloth-backed copy of the rough drawn manuscript will be filed in the vault, together with a cloth-backed copy of the printed quadrangle.

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

Contemporary Hydrographic Surveys

None

Comparison with Previous Topographic Surveys

T-266	1:20,000	1848
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Two somewhat large islands shown on T-266 were not shown on T-8106. These islands were identifiable on the field photographs and were added to the manuscript. T-8106 now supersedes T-266 in its entirety.

Comparison with Nautical Chart 1224

T-8106 has not been applied to chart 1224. There are no large discrepancies.

Comparison with Published Quadrangles

"Nanticoke"	1:62,500	U.S.G.S. 1903
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T-8106 is in general agreement as to details, ^{and} ~~but~~ is considered adequate to supersede the Nanticoke quadrangle throughout their common area.

Radial Plot and Detailing

The field edit brought out the fact that the radial plot for T-8106 was in error in the northeast corner of the sheet. (See attached correspondence.) The plot was corrected in the Tampa Office and is now satisfactory. The detailing is complete and within the required accuracy.

Reviewed under direction of D. H. Benson

Inspected by R. M. Berry *and Rogers*

Robert W. King
Chief, Surveys Branch

K. T. Adams
Chief, Section of Topography

J. S. Gordon
Chief, Division of Charts

G. H. Rude
Chief, Division of Coastal
Surveys