# 8145

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

•
Type of Survey Air Photographic Topographic
Field No. 55 Office No. T-8145
LOCALITY
State Virginia
Potomac River, Momini
Potomac River, Nomini  General locality Creak to Lower Machadoc Rive
Locality Machodoc, Virginia
•
1047
<u> 1943</u>
CHIEF OF PARTY
Ti + # **

LIBRARY & ARCHIVES

DATE February 20,1945

B-1870-1 (1)

#### DATA RECORD

Chief of Party: Wm. D. Patterson

F. L. Gallen Chief of Party:

Fred. L. Peacock

T-8145

Quadrangle (II):

Machodoc  $7\frac{1}{2}$  Quadrangle

Pincy Point 15' Quadrangle

Field Office:

War Mapping Field Party No. 1

Compilation Office:

Baltimore Field Office

Instructions dated (II III):

March 4, 27; June 5, 24;) Aug. 13, 27; Sept. 3, 4;) 1942

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: 6/7/43

Applied to chart No.

Date:

Project No. (II):

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

CS-278-A

Redrafting Completed: 9/18/43

Registered: 2/16/45

Published: 2/14/44

4/8/43

Compilation Scale: 1:20,000

Published Scale: 1:31,680

Scale Factor (III): none

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

Reference Station (III): Thompson, 1932

Lat.:38° 06' 16.374" 504.8 Long.: 76° 42' 48.975" 1193.2 Adjusted (1345.1)m (268.6)m Unadousted

State Plane Coordinates (VI): Virginia, north zonc

x = 2,514,017.06 Ft. Y = 164,459.18 Ft.

## PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
Nine Lens				
8891-8894 Inc.	4/15/42	1:16 - 1:22p.m.	1:20,000	1.9' above M. L. W.
8895-8898 Inc.	4/15/42	1:26 - 1:31p.m.	1:20,000	1.9' above M. L. W.
8905-8 <b>906</b> Inc.	4/15/42	1:42 - 1:44p.m.	1:20,000	2.0' above M. L. W.
8914-8915 Inc.	4/15/42	1:57p.m.	1:20,000	2.0' above M. L. W.
Single Lens Sci	1 Conservat	ion Service Photo	graphs	•
FG 108-31 - 108-39 In		unknown	1:20,000	unknown
FG 108-49 - 108-56 In	c. 4/7/37	unknown	1:20,000	unknown
FG 108-124-108-131 In	c. 4/7/37	unknown	1:20,000	unknown
FG 129-26 - 129-34 In	c. 5/7/37	unknown	1:20,000	unknown

Tide from (III): Predicted table of tides; reference station Washington, D.C. with correction to Blackistone Island, Md.

Mean Range: Spring Range: 1.91

Camera: (Kind or source)U. S. Coast & Geodetic Survey Nine lens camera

Field Inspection by: Horizontal Control: G. B. Wood date: May-June, 1942 Shoreline: C. O. Rector August, 1942 Cultural Features: H.R.Cravat, S.C.Dionisio Oct., 1942 Field Edit by: date: to Jan., 1943

A.M. Jylha, H.M. Eldridge

Apr. 1943

Orvis N: Dalbey

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

same as date of nine lens photographs

Projection and Grids ruled by (III) Wash. Off. C.H.R. date: Oct. 20, 1942 " - checked by: Washington Off. J.O.N.date: Nov. 5, 1942 Control plotted by: J. Edward Deal, Jr. & Charles Bailey date: Nov. 24, 1942 Control checked by: date: Nov. 25, 1942 Joseph Steinberg

date: Dec. 15, 1942 Radial Plot by: J. Edward Deal, Jr. & Joseph Steinberg Additional Radial Jan. 18, 1943

Points by: Calvert J. Cahn Detailed by: Raymond Glaser Contours by: Raymond Glaser

date: 1-28 to 3/26/43 4/2 to 4/6/43

Reviewed in compilation office by: Henry P. Eichert date: 3/29 to 4/6/43

Elevations on Field Edit Sheet checked by: L. G. Chambers

date Apr. 1943

## STATISTICS (III)

Land Area (Sq Statute Miles): 53

Shoreline (More than 200 meters to opposite shore): 19 Statute miles

Shoreline (Less than 200 meters to opposite shore): 13 Statute miles

Number of Recoverable Topographic Stations established: 3 stations

Number of Temporary Hydrographic Stations located by radial plot:

3 stations

Leveling (to control contours) -/miles: 37.0

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: Contours by: A. M. Jylha, H. R. Cravat, H. M. Eldridge, Oct., 1942 to Jan., 1943.

# FIELD INSPECTION REPORT QUADRANGLE NO. T-8145 Project CS-278 -A F. L. Gallen, Chief of Party.

- 1. DESCRIPTION OF AREA The southern part of this quadrangle is similar to T-8144 except that the principal drainage system is Nomini Creek and its tributaries. The northern part of the quadrangle is part of a large, low, flat area, adjacent to the Potomac River, similar to T-8140, and with a steep rise to the upland in the southern part of the quadrangle in the vicinity of the 40 foot contour. The timber is similar to that in the two quadrangles mentioned above.
- 2. 4. Same as T-8144
- 5. VERTICAL CONTROL Same as for T-8148. CAL 17 was found to be in error and was rejected in the level record.
- 6. CONTOURS AND DRAINAGE Same as for T-8144 and T-8148

By A. M. Jylha, Photograph 8893.

A vertical closure of 4 feet was encountered between CAL 17 and 18 and CAL 17 was later found to be in error and was rejected in the level record. No adjustment was made in the contours due to the steep slope.

7-16 - Same as for T-8148.

17. BOUNDARY MONUMENTS AND LINES - There are no boundary lines in this quadrangle. Blitics district boundaries added in Washington office from county Highway Map.

18. Same as for T-8144.

Submitted by,

Approved and forwarded:

F. L. Gallen,

Chief of Party.

Lieut. U. S. C. and G. S.

26 CONTROL:

Sixteen U. S. Coast & Geodetic Survey Triangulation Stations lie within the limits of this map manuscript. Five U. S. Coast & Geodetic Survey Triangulation Stations lie within one minute of the limits of this map manuscript. Eight U. S. Coast & Geodetic Survey Triangulation Stations lie approximately two minutes to the North and one station lies approximately two minutes to the South of the limits of this map manuscript. All of these stations were used as control for secondary and detail points.

Triangulation stations within the limits of this map manuscript are:

> Waughn, 1932 Green, 1932 Beale, 1932 -Thompson, 1932 Herbert, 1932 Franklin, 1932 Nigger, 1932 Landing, 1932 Cupola, 1932 Cherry, 1932 -Kilmon 1932 Boyce, 1932 Parham, 1932 Church, 1932 Beacon No. 8 Wash. to Norfolk, 1942 Westmoreland Lookout Tower,

"B." (U.S.E.) - Added in Washington Office Triangulation stations within one minute of the limits of this map manuscript are:

1942

Buckmer, 1932 Smarts, 1932 Feddle, 1932 Carey, Va., 1934 Nehi, 1942

Triangulation stations approximately two minutes beyond the limits of this map manuscript are:

To the North

To the South

Ragged Pt. L.H., 1901 Grapevine, 1932 Boundary Mon. Va., No. 19, 1929 Calhoun, 1932 1932 Bettie, Copsico, 1934 Boundary Mon. Va., 1929 Murray, 1919

Collins, 1932

## 27 RADIAL PLOT:

The Radial Plot for T-8145 is described in Section 4 of the descriptive report for sub-projects CS-278-A and CS-278-D, which has been previously submitted. Jeld in Photogrammetric fection

## 28 DETAILING:

The major portion of the detailing was done from the nine lens office photographs using the center chambers as much as possible. In detailing areas where relief was exceptionally great, the single lens photographs received from the Soil Conservation Service, were relied upon to a large extent. In some instances, it was necessary to use the Projector in detailing from these single lens photographs. The single lens photographs were also helpful in detailing drainage, buildings and marsh areas. The field inspection was satisfactory as a whole for the entire area of the map manuscript. Discrepancies between the field inspection and office examination have been indicated on the discrepancy overlay. All drainage was determined by stereoscopic examination of the office photographs, the single lens pictures being used in most cases. Where very slight discrepancies occured between this examination and the field inspection, the field inspection interpretation was accepted. This was done in order to facilitate more accurate contouring. Where drainage discrepancies were considerable however, the contours were adjusted to fit the office interpretation of the drainage. Drainages delinested by field office were very poor.
Numerous changes were made by reviewer, after steresscopic inspection of photos. 29 SUPPLEMENTAL DATA:

Portions of the following previous surveys cover parts of the area of this map manuscript:

Survey No.	Date	Scale
T-2808	1906	1:20,000
T-1104	1868-1904	1:20,000
<del>T-1581</del>	1860-1904	1:20,000 (Does not cover the area)

These surveys are not available to the compilation office.

In addition, a General Highway and Transportation Map of Westmoreland County has been furnished the compilation office by the field party.

#### 30 MEAN HIGH WATER LINE:

The stage of tide of all nine lens photographs was computed before any shoreline detailing was attempted. The field inspection party provided sufficient shoreline inspection data to facilitate the location of the mean high water line.

#### 31 LOW WATER & SHOAL LINES:

The field inspection party did not supply any data as to the location of low water or shoal lines. There were however, small shoal areas in the northeast and northwest sections of this map manuscript which were delineated from the single lens soil conservation

31 LOW WATER & SHOAL LINES: (cont'd)

photographs. No low water lines were apparent on the office photographs.

32 DETAILS OFFSHORE FROM THE HIGH WATER LINE:

All offshore details indicated by field inspection have been shown. No other offshore detail is discernible on the office photographs.

33 WHARVES & SHORELINE STRUCTURES:

Several wharves, piers, docks, boat houses and fish houses were indicated on the field inspection. These, and others which could be seen on the photographs, were detailed on this map manuscript.

34 LANDMARKS & AIDS TO NAVIGATION:

Plumb Point Light was added in Washington Office

No information concerning landmarks or aids to navigation was available for the area covered by this map manuscript, nor were any filed.

indicated by the field inspection.

Also, Airway Beacon #8, Wash. to Norfolk is an aid

35 HYDROGRAPHIC CONTROL:

Three Recoverable Topographic Stations fall within the limits of this map manuscript. Two are unquestionably suitable for use in future hydrographic surveys. They are:

HOL. - 1942 U.S.E.D. 278 - 1942

The third, Hague Potomac Baptist Church, which may be too far inshore for hydrographic control, needs further investigation as noted on the discrepancy overlay.

Geographic position and detailed descriptions of these stations are submitted herewith on Form No. 524.

In addition, three Temporary hydrographic signals were picked and located by the radial line method. Descriptions of these are furnished on the overlay.

37 GEOGRAPHIC NAMES:

A list of disputed, undisputed and recommended geographic names is attached to this descriptive report.

38 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared to accompany this map manuscript. On it are noted discrepancies, omissions, and such notes as are deemed likely to be of assistance during the field edit. Also shown, for the use of the Baltimore Compilation Office, are the numbers or names of all bench marks.

## 39 HORIZONTAL ACCURACY:

Horizontal accuracy of the location of well-defined and less well-defined points of detail is believed to be within the limits set forth in the instructions for Project CS-278, Paragraph 54, dated March 4, 1942.

## 40 RECOMMENDATION FOR FUTURE SURVEYS:

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

## 41 JUNCTIONS:

Complete satisfactory junctions of contours and planimetric detail were made with T-8140 to the north, T-8144 to the west and T-8146 to the east. No contemporary survey borders this map manuscript to the south. 7-8358 (1944) joins to south.

## 42 REMARKS:

An adequate description of the area covered by this map manuscript has been submitted by the field party.

## 44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparison was made with Md.-Va.-Piney Point 15' Quadrangle, U. S. Geological Survey, edition of 1901, scale 1:62,500. In general, the agreement appears good. The only notable discrepancy was the location of drainage over the entire quadrangle.

#### 45 COMPARISON WITH NAUTICAL CHARTS:

This map manuscript was compared with the U. S. Coast & Geodetic Survey Chart No. 558. Because of scale difference, minute comparison could not be made. General agreement appeared good with the following exception: Chart No. 558 shows an inlet immediately to the south of Church Point on the western shore of the Lower Machodoc River; which does not appear on T-8145.

It is recommended, that map manuscript T-8145 supersede the charted topographic information for the area covered.

Respectfully submitted, April 6, 1943

Raymond Glaser

Sr. Engineering Draftsman

Map Manuscript, Discrepancy Overlay and Descriptive Report Reviewed by:

Henry P. Enchert

Jr. Photogrammetric Engineer

Compilation of Map Manuscript Supervised by:

J. Edward Deal, Jr. Asst. Photo. Engineer

Asst. Photo. Engineer

and

Approved & Forwarded: April 7, 1943

Ered. L. Peacock Officer-in-Charge

Baltimore Field Office

	-9-	S	32	) w	4.	Point	Quad. T
		38.01.	37.59	4 4 600	.10.88	Lat.	Comparison on U.S. Coast a
		195 215	1826 04	685 719		G. P. Position	7
Checked by a	review of both	76°36'	76°34'	16 39	76°38'	Long.	of U.S.G.S. Transit Traverse Points with Plotted Positions and Geodetic Survey Quadrangles  Project. 278-A
Sign in the second seco		287	1428.5	1226	1406.5	q. p	th Plotted 1
		282	1426	1206	1392	Position Position	Pasitions
		1.0 mm N.N.	1.6 mm N.E.	N www la	1.0 mm N.E	Position Diff in M	71

T

## FIELD EDIT REPORT T-8145

46. The field edit was done by visual inspection using the map manuscript in the field and transferring all additions, deletions and corrections while inking.

The inking was done in accordance with the following scheme:

Features	1	Colors
Additions, bench marks, wye level elevations and crosses		Black
Deletions		Green
Contours, elevations by top.		Brown
Drainage features		Blue
Civil boundaries		Violet'

47. The position and amount of detail on this sheet is believed to be accurate and complete.

48. The horizontal accuracy test is the subject of a special report by L. G. Chambers on Project 278-A. G.S. traverse positions used, did not check very closely, see tobalation on proceeding page.

The vertical accuracy test is the subject of a report by Lieut. G. R. Fish on Project 278-A.

14. All County roads in Virginia have been taken over by the State.

17. Due to the controversial nature of the Maryland-Virginia boundary the exact location was left to be determined in Washington, D. C.

Respectfully submitted,

Orvis N. Dalbey, perfuly.
Photogrammetric Aid.

Approved and forwarded:

F. L. Gallen, Chief of Party.

## LIST OF GEOGRAPHIC NAMES

## Undisputed

Acorn Aimes Creek Antioch Branch Antioch Farm Barnes Creek Barnes Point Beales Millpond Beales Mill Run Beales Wharf Booths Bend Boyse Point Browns Cove Buena Vista Branch Bull Neck Bull Neck Run Bushfield Bend Carys Point Cherry Orchard Point Church Point Cupola Point Davis Creek Deep Point Doyle Cove Drum Bay Erica Glebe Creek Greens Marsh Griffiths Corner Hague Hanley Point Harrison Point Hester Cove

Hickory Point

Jenkins Cove

Jenkins Creek

Jenkins Point

Jones Branch Jules Creek

Hinnom

Kirk Point Kremlin Lee Creek Lower Machodoc River C.M. Lyells Machodoc Machodoc Neck Marshall Creek McGuires Wharf Meter Mount Holly Mount Pleasant Branch Mount Pleasant Farm Narrow Beach Newtons Mill Run Newtons Pond Nigger Point Nomini Nomini Creek Nomini Ferry Bridge Nomini Grove Nomini Hall Oldham Oldham Run Palmers Cove Palmers Point Parham Point Plumb Point Prospect Hill Prospect Hill Bridge Public Landing Shorts' Store Stratter Point Tavern Millpond Tavern Run Templeman Run Thompsons Branch Thompsons Hill Tidwells

## LIST OF GEOGRAPHIC NAMES

Recommended

Disputed

Neenah

Warrenville

Pierce Creek

Pierces Creek

	Remarks	Decisions
1		380766
2	3	tt
3		ii ·
4_		ti
5		tt
6	,	11
7	, , ,	11
8	· · · · · · · · · · · · · · · · · · ·	tt
- 9	<del>,</del> , , , , , , , , , , , , , , , , , ,	34
10		Te .
. 11		u
_12		ti .
13		11
_14		ıt
15	·	11
16		u .
17		u
18		17
19_	·	18
_20		ft .
21	· · ·	II .
_22		it .
_ 23		tt
24		11
25		381766 USGB
26		II IR
_27		11

	GEOGRAPHIC NAMES Survey No. 1-8145	,	/s. /	or or or	S. Work	So in in the second	Thore of	O. Caide of	AND HEROIT	7. The	\$
•	MACHODOC quadrangle No. 1 Name on Survey	S A	chor. Or	C 50. Q	D 41	E E	on of F	, o. G	Page H	2, K	
f	Acorn (	U									11
· .	Oldham	<i>)</i> ı									2
	Tavern Millpond	,									3
	Tavern Run	/ v							_		4
1	Oldhem RUn	ı			,		,				5
	Griffiths Corher	ι (v	llage	)							6
•	Kremlin ·	v							ļ <u></u>	ļ	7
	Bull Neck	ı							ļ		8
	Bull Neck Run	//								-	9
•	Newtons Pond	·									10
	Newtons Mill Run	u									11
_	. Nomini Hall	- (fa	rm, ol	l and	famous	)		:			12
•	Beales Millpond	L									13
	Beales Mill Run	/ c									14
	Buena Vista Branch	L									15
<b>G</b> ,	Hague	, ' ,			`						16 _
ı	Machodoc		-								1 <b>7</b>
٠.	Thompson Branch	ı									18
	Jones Branch	ι									19
# ** #	Drum Bay	ı.									20
	Lee Creek	/ <sub>\\\\</sub>						_			21
	Mt. Pleasant Branch	/		•							22
	Mt. Pleasant Farm	v		·				•			23
	Shorts Store	C									24
	Coles Neck	y		٠.							25
•	Lower Machodoc Creek	· ·	<u>-</u>								26
,	Parham Point (	٠									_27
				_							м 234

	Remarks	Decisions
1		981766
2		ti .
3		ıı
4		tt
5	, ,	1)
6		tr
		tt
8		21
9_		tt
10_		17
11		tt
12_		11
13		11
14		11
15		Π .
16		11
17		ti
18		tt .
19		381767
20		11
21		11
22		tt
23		11
_24		tt
25	· · · · · · · · · · · · · · · · · · ·	11
26		st .
27		'n

	GEOGRAPHIC NAMES Survey No. <sub>T-8145</sub>		, T.	de de la	2. May 2. Party	S. S	No. Co. Co. Co. Co. Co. Co. Co. Co. Co. C	O. Guide of	Mar Metalit	N. S.	
<u>.</u>	No. 2		1 40 0	40. Q	7. A. 14	or injoin	or bo	.0 /	<b>Rand</b>	s.,\	
•	. Name on Survey	/ A	/ B	<u>/ c</u>	/ D	/ E	/ F	<u> </u>	<u>/ H</u>	/ K	
	Kirk Point	r									1
	Hester Cove	L L								<u> </u>	2
	Cunola Point	<u>_</u>	<u> </u>			,					3
	Meter .	<u>-</u>				1					4
e de la companya de l	Naurow Beach	-								1	5
and the second	Plumb Point	<u> </u>							-		6
•	Glebe Greek	~									7
`.	Aimes Greek	, c (v	ry li	ttle o	this	quadra	ngle )				8
	Tidwells	c									9
	Church Point	ر									10
•	Nigger Point	د	<u> </u>								11
	Charry Orcherd Point	L									12
•	Boyse Point	L	ļ 					,			13
4	Hanley Point	_				<u> </u>		,			14
	Doyle Cove	c					·				15
	Harrison Point	د					:				16
	Machodoc Neck	ν									17
·	Erica .	c	-								18
1	Nomini Creek	V									19
ţ	Hickory Point	ν									20
	Bushfield Bend	~					,			<b></b> :	21
	Jules Creek	,									22
	Beales !!herf	V		<u></u>							23
	Davis Creek	10								•	24
	McGuires Wharf	2 0				a					25
•	Palmers Cove	0_									26
<b>u</b> -	Palmers Point /	Υ.									27
					į						M 234

No. 3

	Remarks	Decisions
1		381767
2		" USGB
3		n
4		tt
5		t1
6		11 -
7		11
		11
9		rt
10	_	11
	· · · · · · · · · · · · · · · · · · ·	ti
11		1:
13		tt
14		π
15		380767
16	·	17
17		il .
18		11
19		11
20		n
21		11
22		ដ
23		u USGB
24		11
25		11
26		tr
27		379767
M 234		

Or Made of the Control of the Contro Rock William William Or to to the state of the state 6. Cripe d Has o. like list **GEOGRAPHIC NAMES** tight state of Or los woods Survey No. 1-8145 No. 3 Name on Survey В Ε G Stratter Point Pierce Creek Peirce Creek 2 Browns Cove 3 Hinnom Deep Point, 5 6 Jenkins Cove. Jenkins Creek 7 too small Jenkins Point 8 Public Landing 1 9 Carys Point 10 Barnes Creek 11 Greens Marsh 12 Barnes Point. 13 ı 14 Booths Bend 15 Mount Holly Nomini Ferry Bridge 16 · D-17 18 Thompson Hill v 19 Prospect Hill Bridge 20 <u>Marshall Creek</u> <sup>T</sup>empleman Run v 21 22 Prospect Hill 23 Neenah Antioch Farm: 25 <u>Antioch Branch</u> 26 Nomini Grove i <u>L.ells</u> 27 M 234

6.

	Remarks	Decisions
1	·	
2		
3		381768
4		,
5		Road Maps
6		tt
7		tt
8		
9_		
_10	, and the second	
11		•:
12	·	
13		
14		
15		
16	,	
17	<u> </u>	
18		
19	•	
_20	•	·-
21		
_ 22		
23		
24	•	
25		
26	<i>;</i>	
27 M 234	· · · · · · · · · · · · · · · · · · ·	·

Or Wo. Or Or Medicales Q. Gilbert Mag V.S. Hagering **GEOGRAPHIC NAMES** Or local Made Hat Hattain Survey No. T-8145No. 4 Ε G Name on Survey Westmoreland County 2 (Names Report prefers this to old George Washington Memorial Highway 3 name of Kings Road) Ve. Highway No. 6 Inells to Oldian No. 203 Hague-Mount Holly No. 202 8 9 10 11 12 13 15 Names unde fined in red approved 16 17 18 19 20 21 22 23 25 26 27 M 234 , 7

## 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 1:31,660 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 pelitical-boundaries,

woodland, marsh; and rwamp-limits; refer to the

published quadrangle for the finally adopted

positions.

Descriptive Report.

**&**:

**1** 

## 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.

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 celluloid manuscript.

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.

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

.

1

This quadrangle, together with similar adjoining maps produced under Project C.S.278-A 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:

## FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U.S. Coast Guard. The photography was supplemented by use of single-lens photos of the Soil Conservation Ground inspection of the photographs for identifi-/Service.) cation of control points, and classification and classification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

## COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore Temper Photogrammetric Office.

### FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

: 4

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

## PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blueline" copies of the manuscript. From these drawings; negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

#### DIVISION OF CHARTS

#### SURVEYS BRANCH

## REVIEW OF AIR PHOTOGRAPHIC SURVEY T- 8145

## MACHODOC 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 Refer to page nine of the Descriptive Report for a copy of the results of the horizontal accuracy test. See page two of this supplement for a more detailed discussion of this test. The vertical accuracy test could not be identified on any of the field photographs covering this area. The results of this test, however, appear to be satisfactory as stated in the report Previous Surveys submitted by Lt. G. R. Fish.

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.

T-1104	1868	1:20,000	
T-2808	1906	1:20,000	
"Piney Point"	1890	1:62,500	U.S.G.S.

## Comparison with Nautical Charts Nos. 558 - 1940

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:

Most of the topographic detail in the vicinity of Church Point on the Lower Machodoc River is not correct as shown on the chart. With this exception, only minor discrepancies in shoreline were apparent. The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

An attempt was made to use a 1929 U.S.G.S. traverse as a horizontal accuracy test. The results were not good. The radial plot was made by holding U.S.C.& G.S. control and no indication of gross error in the plot was discovered during review. Either the traverse points were not sufficiently well identified on the photographs or the traverse itself was not reliable.

Only minor changes in detail were necessary on this map manuscript.

The radial plot was well controlled by wargulation of this Brueau and has been accepted in preference to the assurant test. The his gs. Hougarlot control was not used for the radial plot.

By Jones

Reviewed 6-17-43 By Walter B. Russell under direction of D. H. Benson for X.E. Q.

Inspected by B. G. Jones B. J. goves

Examined and approved:

0

0

Chief, Surveys Branch

K.T. Adams Chief, Topography Section Chief, Div. of Charts

Chief, Div. of Coastal Surveys