

# 10675

Original

Diag. Cht. No. 78-4.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey ..... Planimetric

Field No. Ph-161 ..... Office No. T-10675

### LOCALITY

State ..... Virginia

General locality ..... Potomac River

Locality ..... Lottsburg

19 ~~55~~ 55 - 1958

### CHIEF OF PARTY

Joseph K. Wilson, Chief of Party  
W. E. Randall, Baltimore District Officer

### LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

10675



DESCRIPTIVE REPORT - DATA RECORD


Inapplicable

Areas contoured by various personnel  
(Show name within area)  
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

- 4 -

Field Inspection by (II): Joseph K. Wilson

Date: Sept. 1957 thru  
June 1958

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 11 and 12 November 1955.  
(Date of Photography) Photogrammetric supplemented by 1958 Photography

Projection and Grids ruled by (IV):

P. J. Dempsey

Date: 11/1/58

Projection and Grids checked by (IV):

R. D. Shoup

Date: 11/10/58

Control plotted by (III):

D. M. Brant

Date: 1/21/59

Control checked by (III):

H. P. Eichert

Date: 1/21/59

~~Radial Plotter~~ Stereoscopic  
Control extension by (III):

G. M. Ball

Date: 9/10/58

Stereoscopic Instrument compilation (III):

Planimetry (E. L. Williams  
(E. L. Rolle  
Contours

Date: 6/22/59

Date:

Manuscript ~~checked~~<sup>scribed</sup> by (III):

C. A. Lipscomb

Date: 3/27/61

Photogrammetric Office Review by (III):

J. C. Richter

Date: 6/27/60

Elevations on Manuscript  
checked by (II) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): U.S.C. & G. S. "W" 6" focal length

Number	Date	* PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time (E.S.T.)			
55-W-2280 thru 2282	11/11/55	13:15		1:30,000	1.1' above MLW
55-W-2356 " 2358	11/12/55	12:55		"	1.4' " "

Tide (III)  
(From predicted tables)

Reference Station: Washington, D. C.  
Subordinate Station: Lynch Point, Virginia  
Subordinate Station: Travis Point, Coan River, Va.

Ratio of Ranges	Mean Range	Spring Range
-	2.9'	3.3'
0.52	1.5'	1.8'
0.48	1.4'	1.7'

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 15  
Shoreline (More than 200 meters to opposite shore) (III): 4 mi.  
Shoreline (Less than 200 meters to opposite shore) (III): 5 mi.  
Control Leveling - Miles (II):  
Number of Triangulation Stations searched for (II): 7 Recovered: 7 Identified: 4  
Number of BMs searched for (II): 0 Recovered: 0 Identified: 0  
Number of Recoverable Photo Stations established (III): 0  
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

Two triangulation stations are within the limits, the remaining five are east or south of limits of project.

\* See report for T-10674 for 1958 photographs. Photo-centers are not within limits of this survey.

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T. 10675

PROJECT NO. Ph-161

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $y$ -COORDINATE LONGITUDE OR $x$ -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
			FORWARD	(BACK)	FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
MULCH, 1942	VA p. 66	N.A. 1927	91,732.31								
			2,564,317.58								
Sub. Pt. No. 1 MULCH, 1942	Comp.	"	91,757.52								
			2,564,304.89								
Sub. Pt. No. 2 MULCH, 1942	"	"	91,774.24								
			2,564,624.05								
DOWNING, 1931	VA p. 31	"	124,214.44								
			2,575,859.50								
Sub. Pt. DOWNING, 1931	IBM Comp.	"	124,068.6								
			2,575,770.1								
STORE, 1931	VA p. 31	"	125,634.27								
			2,584,164.33								
Sub. Pt. STORE, 1931	IBM Comp.	"	125,506.3		4.15	100.27					
			2,584,310.8		2.09	20.1					
BUNDICK, 1931	VA p. 31	"	112,762.47								
			2,581,660.83								
Sub. Pt. BUNDICK, 1931	Comp.	"	112,728.72								
			2,581,412.41								
GLEBBE C, 1931	VA p. 31	"	122,908.75								
			2,576,366.48								

COMPILATION REPORT  
Project Ph-161  
T-10675

The field inspection report and the photogrammetric plot report for this survey are part of the Descriptive Report for survey No. T-10661.

31. DELINEATION

The Kelsh Plotter was used for delineation.

32. CONTROL

Horizontal control was adequate. A Kelsh model bridge was set so that passpoints from this quadrangle could be tied in with passpoints in quadrangle T-10759 and T-10674.

33. SUPPLEMENTAL DATA

Final Names Standard dated 6/19/59.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.  
Drainage is complete.

35. SHORELINE AND ALONGSHORE DETAILS

All shoreline compiled from adequate field inspection.  
No low water or shoal lines were shown.

36. OFFSHORE DETAILS

No offshore details noted.

37. LANDMARKS AND AIDS

No landmarks or aids were submitted.

38. CONTROL FOR FUTURE SURVEYS

An incomplete copy of this survey showing the shoreline along with a set of ratio photographs with passpoints, was prepared and submitted for use of the hydrographic party.

39. JUNCTIONS

The following junctions have been made:

To the north with survey No. T-10674.

To the south No contemporary survey.

To the west no contemporary survey.

To the east with survey No. T-11046 (Ph-101). This junction between Ph-161 and Ph-101 was very good.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. through 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

A.M.S. Sheet 5659 I NE, Lottsburg, Virginia, scale 1:25,000, revised in 1946, 3rd edition 1949. This map is based on Bureau Survey T-8357 (1944).

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 557, scale 1:40,000, 6th edition, August 10, 1946. Revised September 29, 1958.

Items to be applied to nautical chart immediately: None.

Items to be carried forward: None.

Respectfully submitted

*Edward L. Rolle*  
Edward L. Rolle  
Carto. (Photo.)

Approved and forwarded

*William E. Randall*  
William E. Randall  
Commander, C&GS  
Baltimore District Officer



PHOTOGRAMMETRIC OFFICE REVIEW

T-10675

1. Projection and grids JCR 2. Title JCR 3. Manuscript numbers JCR 4. Manuscript size JCR  
 5. Horizontal control stations of third-order or higher accuracy JCR 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) — 7. Photo hydro stations — 8. Bench marks —  
 9. Plotting of sextant fixes — 10. Photogrammetric plot report JCR 11. Detail points JCR

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy JCR 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) — 7. Photo hydro stations — 8. Bench marks —  
 9. Plotting of sextant fixes — 10. Photogrammetric plot report JCR 11. Detail points JCR

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline JCR 13. Low-water line JCR 14. Rocks, shoals, etc. JCR 15. Bridges JCR 16. Aids to navigation JCR 17. Landmarks JCR 18. Other alongshore physical features JCR 19. Other along-shore cultural features JCR

PHYSICAL FEATURES

20. Water features JCR 21. Natural ground cover JCR 22. Planetable contours — 23. Stereoscopic instrument contours — 24. Contours in general — 25. Spot elevations — 26. Other physical features JCR

CULTURAL FEATURES

27. Roads JCR 28. Buildings JCR 29. Railroads — 30. Other cultural features JCR

BOUNDARIES

31. Boundary lines JCR 32. Public land lines —

MISCELLANEOUS

33. Geographic names JCR 34. Junctions JCR 35. Legibility of the manuscript JCR 36. Discrepancy overlay JCR 37. Descriptive Report JCR 38. Field inspection photographs JCR 39. Forms JCR

40. J. C. Richter Reviewer Henry P. Eicher Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Joseph D. McEvoy Compiler Henry P. Eicher Supervisor

43. Remarks: Partial edit, shoreline only.

48. Geographic Names:

Callao  
Cherry Point Neck

Fallins Millpond

Glebe Creek

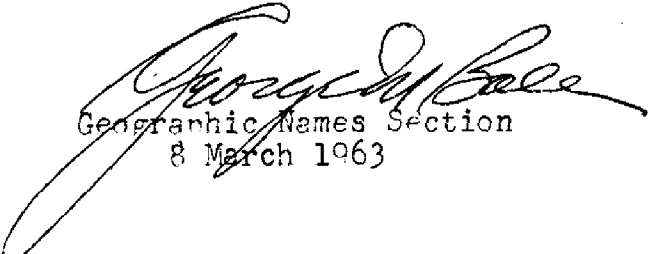
Headleys Millpond

Lodge  
Lodge Creek  
Lottsburg

Mill Creek

Stately Oak

Walmsley  
Winstead Gate  
Wrights Cove



Geographic Names Section  
8 March 1963

REVIEW REPORT  
OF PLANIMETRIC MAPS  
T-10670, T-10671, T-10674, T-10675 and T-10759

March 1963

61. General Statement

These are five (5) planimetric maps of Project PH-161 Lower Patuxent River. These maps were prepared to furnish shoreline and control for hydrographic surveys and base maps for nautical charting.

62. Comparison with Registered Topographic Surveys

T-8146	1:20,000	1943
T-8357	1:20,000	1944

Cultural and shoreline changes have been continuous. These map manuscripts are to supersede the above listed surveys for common areas for nautical charting.

63. Comparison with Maps of Other Agencies

Lottsburg, Va.	1:24,000	U.S.G.S.	1944
Yeocomico, Va.	1:24,000	U.S.G.S.	1943

These are small cultural and shoreline differences but in general, the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

H-8549	1:10,000	1960
H-8550	1:10,000	1960

Shoreline and control for the hydrographic surveys was furnished prior to hydrography and there is good agreement except Lynch Point (T-10674) has moved offshore approximately 100 meters.

65. Comparison with Nautical Charts

557	1:40,000	Oct. 1962
558	1:40,000	Nov. 1962

There are no differences of importance between the charts and the subject manuscripts.

66. Adequacy of Results and Future Surveys

These surveys are considered to be sub-standard due to the lack of desired horizontal control. See "Photogrammetric Plot Report page 7 of Descriptive Report for T-10670. However, it is believed, they are of sufficient accuracy for nautical charting at scales of 1:20,000 or smaller.

Submitted by:

L. C. Lande  
L. C. Lande

Approved by:

Charles L. Luman  
Chief, Cartographic Br.

Louis G. Taylor  
Chief, Nautical Chart Div.

J. E. Vaughn 5/23/63  
Chief, Photogrammetry Div.

Howard B. Conely  
Chief, Operations Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-10675

**INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

- 1. Letter all information.
- 2. In "Remarks" column cross out words that do not apply.
- 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
12233	6/25/91	D. BLACK	Full <del>Part</del> Before After Verification Review Inspection Signed Via Drawing No. 45 <i>EAM, no further corr.</i>
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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