

# 10674

Original

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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-10674

### LOCALITY

State Maryland and Virginia

General locality Potomac River

Locality Yeocomico River

1955-1958

### CHIEF OF PARTY

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

### LIBRARY & ARCHIVES

DATE \_\_\_\_\_

USCOMM-DC 5087

# 10674

DESCRIPTIVE REPORT - DATA RECORD

T -10674

Project/No. (II): Ph-161

Quadrangle Name (IV):

Field Office (II): Callao, Virginia

Chief of Party: Joseph K. Wilson

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: W. E. Randall

Instructions dated (II) (III): 9/16/57, 73/rab  
Director's ltr. dated 12/6/57, 73/rab  
" " " 5/5/58, 732/rrj  
Ch. Photo. Div. " " 12/23/58, 73/rrj  
Asst. Director's " " 5/15/59, 73/rab

Copy filed in Division of  
Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6,000  
(pantograph ratio 3/5)

Scale Factor (III): 1.000

Date received in Washington Office (IV):

JUL 10 1961

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: MHW  
Elevations shown as (25) refer to mean high water  
Elevations shown as (5) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): DOWNING 1931

Lat.: 37° 59' 26.002" (801.7 m) Long.: 76° 30' 06.435" (157.0) m

Adjusted  
Unadjusted

Plane Coordinates (IV):

State:

Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,  
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

- 3 -

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): 11/11/55 photography, supplemented by 1958 photography. (Photogrammetric)

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: 1/20/59

Control checked by (III): H. P. Eichert

Date: 1/20/59

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

G. M. Ball  
E. L. Rolle (Kelsh bridge)  
( J. C. Richter  
Planimetry ( E. L. Rolle

Date: 9/10/58  
5/15/59

Stereoscopic Instrument compilation (III):

~~Obtained by~~

Date: 6/19/59

Date:

scribed  
Manuscript delineated by (III):

C. A. Lipscomb

Date: 3/6/61

Photogrammetric Office Review by (III): E. L. Rolle

Date: 1/19/61

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

Date:

# DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS "S" and "W" cameras with 6" focal lengths.

- 5-

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time (EST.)			
55-W-2277 thru 2279	11/11/55	13:13		1:30,000	1.3' above MLW
58-S-6434 and 6435	8/5/58	14:05		1:40,000	0.8' " "
55-W-2354 and 2355	11/12/55	12:51		1:30,000	1.4' " "
58-W-7502 and 7503	1/5/58	12:45		1:40,000	1.5' " "

## Tide (III) (From predicted tables)

Reference Station: Washington, D. C.  
Subordinate Station: Lynch Point, Virginia  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	2.9'	3.3'
0.52	1.5'	1.8'

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): 6.5  
Shoreline (More than 200 meters to opposite shore) (III): 23.0 Mi.  
Shoreline (Less than 200 meters to opposite shore) (III): 6.5 Mi.  
Control Leveling - Miles (II):  
Number of Triangulation Stations searched for (II): 1 Recovered: None Identified:  
Number of BMs searched for (II): None Recovered: Identified:  
Number of Recoverable Photo Stations established (III): None  
Number of Temporary Photo Hydro Stations established (III): 4

Remarks:

SCALE FACTOR 1.000

COMPUTED BY: J. Steinberg	
	DATE 4/24/58
1 FT. = .3048006 METER	
CHECKED BY: H. P. Eichert	DATE 12/24/58
COMM - DC-57843	

COMPILATION REPORT  
Project Ph-161  
T-10674

The field report and photogrammetric plot report for this survey are part of the descriptive report for survey No. T-10661. See report for survey T-10670 for Kelsh model templet bridge.

31. DELINEATION

The Kelsh Plotter was used for delineation. Small fringes of marsh along the shoreline were <sup>not</sup> shown due to minimum widths.

32. CONTROL

Horizontal control was inadequate and a **Kelsh** model bridge had to be completed to drop additional points to control the models.

33. SUPPLEMENTAL DATA

Geographic Name Standard, dated 19 June 1959.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage that was obscured by trees and difficult to photo-interpret was accepted in part from the A.M.S. sheet 5660 II S. E., Yeocomico, Va., Md., and added to this manuscript.

35. SHORELINE AND ALONGSHORE DETAILS

All shoreline is from field inspection which was thorough and supplemented with 1958 photography.

No low water or shoal lines were shown.

36. OFFSHORE DETAILS

Piling, dolphins and wrecks located by field inspection were shown. Two duck blinds were added from the 1958 photography.

37. LANDMARKS AND AIDS

2 Aids to Navigation and 1 Landmark were submitted on Form 567, dated 26 January 1960.

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

Junctions have been made as follows:

To the north with T-10671.

To the south with T-10675.

To the west with T-10759.

To the east with survey T-11442, (Ph-101).

40. HORIZONTAL AND VERTICAL ACCURACY

Covered in revised plot report.

41. BOUNDARIES

The Maryland-Virginia Boundary Line has been omitted. Refer to amendment to Project instructions dated 5/15/59. The boundary between Westmoreland and Northumberland counties was delineated from A.M.S. quadrangle of Yeocomico, Va.-Md., (Paragraph 10 of field inspection report).

42. through 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with A.M.S. sheet 5660 II S. E., Yeocomico, Va.-Md., scale 1:25,000, revised in 1946, 3rd edition dated 1949, which is based on Bureau survey T-8146. (1942)

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 557, scale 1:40,000, 7th edition 11/7/60, corrected to November 12, 1960.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted  
19 January 1961

*E. L. Rolle*

E. L. Rolle  
Carto. (Photo.)

Approved and forwarded

*William E. Randall*

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



PHOTOGRAMMETRIC OFFICE REVIEW

T-10674

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

CONTROL STATIONS

4a. Classification label ☒

5. Horizontal control stations of third-order or higher accuracy ☒ 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 ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

MISCELLANEOUS

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

40. Edward L. Rolle Henry J. Eichel  
Reviewer 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.

Edward L. Rolle Henry J. Eichel  
Compiler Supervisor

43. Remarks:

Partial edit, shoreline only.

**STRIKE OUT ONE**

**NONFLOATING AIDS OR LANDMARKS FOR CHARTERS**

Baltimore, Maryland      26 January      19 60

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by **Joseph W. Vonasek**

William E. Randall

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

**STRIKE OUT ONE**

## NON-FLOATING/ AIDS/OR LANDMARKS FOR CHARTS

**Baltimore, Maryland**

26 January 1960

I recommend that the following objects which have ~~(Habeil Hobeil)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(Habeil Hobeil)~~ the charts indicated.

The positions given have been checked after listing by **Joseph W. Vonasek**

**William E. Randall**

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

**\* TABULATE SECONDS AND METERS**

COMM-DC 283.56

T-10674

NOTES TO REVIEWER

Lynch's Point Store, Middle Chimney, 1901 has no published position as per the Washington office. Form 526 states that this station was destroyed. The C.S.I. card indicates the recovery of the lower part of chimney and was identified for photogrammetric use. The station is shown on the manuscript as topographic station CHIMNEY, 1957.

48. Geographic Names:

Allen Point

Barn Point

Cedar Point

Cherry Point Neck

Cornish Creek

Crow Bar

Drum Cove

Dungan Cove

Dungan Point

Harryhogan Point

Horn Point

Lodge Creek

Long Point

Lynch Point

Mill Creek

Mundy Point

Palmer Cove

Palmer Point

Parkers Creek

Parkers Island

Pea Neck

Sandy Point Neck

Seldom Point

Shannon Branch

South Yeocomico River

Thicket Point

Thicket Point Bay

Tom Jones Point

Walker Point

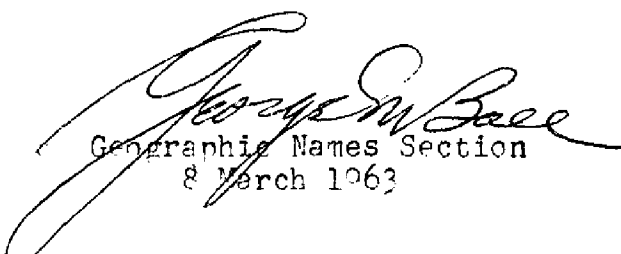
West Yeocomico River

White Point

White Point Creek

Wilkins Creek

Yeocomico River

  
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**

There are five (5) planimetric maps of Project PX-161 Lower Potomac River. These maps were prepared to furnish shore-line 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 area for nautical charting.

**63. Comparison With Maps of Other Agencies**

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

There 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-10070. 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. Lunn  
Chief, Cartographic Br.

Loew G. Taylor  
Chief, Nautical Chart Div.

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

Horace S. Connelley  
Chief, Operations Division

