**DESCRIPTIVE REPORT**

**Type of Survey**  Planimetric  
**Field No.**  Ph-161  **Office No.**  T-10661

**LOCALITY**

**State**  Virginia-Maryland  
**General locality**  Potomac River  
**Locality**  Chisford

1955-56

**CHIEF OF PARTY**

Joseph K. Wilson, Chief of Party
William E. Randall, Baltimore Dist. Office

**LIBRARY & ARCHIVES**

**DATE**  JUL 17 1963
FORM 181
(4-23-54)

DESCRIPTIVE REPORT - DATA RECORD

7-10661

Project No. (II): Ph-161

Field Office (II): Callao, Virginia

Chief of Party: Joseph K. Wilson

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: William E. Randall

Instructions dated (II) (III): 16 Sept. 1957 73/rab

Ltr. from Director dated 12/6/57

" " 5/5/58 732/rrj

" " Ch. Photo. Div., dated 5/15/59 73/rab

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6,000

(Fantograph ratio 3/5)

Scale Factor (III): 1.000

Date received in Washington Office (IV): MAY 26 1957

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): MHW

Reference Station (III): MT. AIRY, 1954

Lat.: 38° 10' 04.798" (147.9 m) Long.: 76° 14' 53.651" (1305.6 m)

Adjusted

Plane Coordinates (IV):

State: Virginia

Zone: North

Zone: Maryland

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.
Inapplicable

Areas contoured by various personnel

76° 48' 45"

(Show name within area)

76° 45' 00"

(II) (III)
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): J. K. Wilson
Date: 9/1957 thru 6/1958

Planetable contouring by (II): Inapplicable
Date:

Completion Surveys by (II):
Date:

Mean High Water Location (III) (State date and method of location): 1955 Date of photography (Kelsh) supplemented by 1958 photography.

Projection and Grids ruled by (IV): P. Dempsey
Date: 11/5/58

Projection and Grids checked by (IV): R. D. Shoup
Date: 11/12/58

Control plotted by (III): D. M. Brant
Date: 12/8/58

Control checked by (III): H. P. Eichert
Date: 12/8/58

Stereoscopic
Control extension by (III): George M. Ball
Date: 9/10/58

Stereoscopic Instrument compilation (III):
Planimetry B. Kurs
Contours
Date: 1/29/59

Manuscript copy (III):
Scribed by: C. A. Lipscomb
Date: 10/7/60

Photogrammetric Office Review by (III): J. C. Richter
Date: 3/9/60

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

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<td>11:33</td>
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<td>11/12/55</td>
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<td>2213</td>
<td>11/11/55</td>
<td>11:58</td>
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<td>2.0 ft</td>
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<td>2214</td>
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<tr>
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<td>5/22/58</td>
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<td>1:10,000</td>
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Tide (III)
(from Predicted Tables)

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<th>Reference Station:</th>
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<tr>
<td>Subordinate Station:</td>
<td>Blakiston Is., Md.</td>
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<tr>
<td>Washington Office Review by (IV):</td>
<td>Date:</td>
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<tr>
<td>Final Drafting by (IV):</td>
<td>Date:</td>
</tr>
<tr>
<td>Drafting verified for reproduction by (IV):</td>
<td>Date:</td>
</tr>
<tr>
<td>Proof Edit by (IV):</td>
<td>Date:</td>
</tr>
</tbody>
</table>

Land Area (Sq. Statute Miles) (III): 6.5
Shoreline (More than 200 meters to opposite shore) (III): 8.3
Shoreline (Less than 200 meters to opposite shore) (III): 2.0
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 10 Recovered: 4 Identified: 2*
Number of BMs searched for (II): None Recovered: Identified: None
Number of Recoverable Photo Stations established (III): None**
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
* In addition, temporary station JOHN 1957 was identified.
** Two stations searched for, not recovered.
2. AREAL FIELD INSPECTION

This report is submitted for the southern portion of the project covering 10 maps along the Potomac River in Northumberland and Westmoreland Counties.

The work was accomplished during the period of September 1957 through June 1958. No work was accomplished on the project during the period of January 1958 through May 1958 as the party was engaged on an airport site at Chantilly, Virginia.

The area is sparsely settled and no major changes were noted with the exception of the erosion of the shoreline which is discussed under heading 3.

1955 ratio prints of 1:10,000 scale were adequate for all field inspection operations. New photography of 1:40,000 scale was obtained in December 1957. This photography relieved prior requirements for horizontal control within the project. No serious photo-interpretation difficulties were encountered.

3. HORIZONTAL CONTROL

All horizontal control stations, as indicated on a special horizontal control diagram prepared by Washington, were recovered and identified with the following exceptions and additions:

Sheet T-10661

Triangulation station STRATFORD, 1954, was not identified due to thick woods and excessive distance to locate substitute point. A temporary station, JOHNST, 1957, was established nearby to control the two flight lines. This station was located by fix from four known triangulation stations. A cahier of computations are submitted with the project data.

Sheet T-10668

A substitute point for station STARTER, 1932, was located by sun azimuth. This is the only substitute point located by that method on this portion of the project.

Sheet T-10670

The location of a new station south of this sheet was not accomplished. See Director's letter of 5 May 1958; 732/rj.

Boundary Monuments 15 and 16, 1929, have been destroyed by erosion. There were no new stations established in this area.

Sheet T-10671

There were no stations recovered within the area covered by this sheet. The Director's letter of 5 May 1958 canceled previous requirements for new stations.
An extremely high percentage of triangulation stations are reported lost or destroyed due to the excessive erosion of the Potomac River banks.

Stations reported on form 526 as "lost," "not recovered," or "destroyed" are:

BETTIE, 1932
BOOZE, 1932
BUCKNER, 1932
BUSHFIELD, 1932
FEDDE, 1932
GEORGE, 1918
GLENDE, 1932
GLORY, 1932
GRANNY, 1932
HENNOM, 1932
HERBERT, 1932
HOLLIS, 2, 1901
JENNINGS POINT, 1932
LYNCH'S POINT STORE (Middle Chimney), 1901
MAC, 1932
NAVY, 1942
PLUM (USE), 1932
RAGGED POINT 4, 1942
RAVINE (USE), 1932
SMARTS, 1932
SNARE, 1919
THOMPSON, 1932
MARYLAND-VIRGINIA BOUNDARY MONUMENT No. 15, 1929
MARYLAND-VIRGINIA BOUNDARY MONUMENT No. 17, 1929
MARYLAND-VIRGINIA BOUNDARY MONUMENT No. 22, 1929
MARYLAND-VIRGINIA BOUNDARY MONUMENT No. 22B, 1932
MARYLAND-VIRGINIA BOUNDARY MONUMENT No. 23, 1929
MARYLAND-VIRGINIA BOUNDARY MONUMENT No. 24, 1929

Several stations, which were plotted on the special control diagram, were reported destroyed many years ago. These stations are not reported on form 526.

4. **VERTICAL CONTROL**

Vertical control was limited by Project Instructions to the recovery of existing tidal bench marks. There were no tidal bench marks in this portion of the project.

5. **CONTOURS AND DRAINAGE**

Contours are inapplicable.

The lower reaches of the supplemental drainage pattern is by means of ill-defined, small perennial streams and/or swamp and marsh; whereas, the upper reaches are generally well defined, in small perennial or intermittent streams. This drainage has been examined stereoscopically and has been classified and delineated throughout the limits of the maps with possibly a few exceptions. It is felt that the compiler will have little difficulty with the delineation. Intermittent drainage was not shown.
6. WOODLAND COVER

Woodland cover was classified in accordance with the Topographic Manual, Part II. Swamp has been outlined throughout the limits of the sheets. Adequate field inspection notes are shown on the photographs.

7. SHORELINE AND ALONGSHORE FEATURES

Shoreline inspection was accomplished from a skiff run close inshore. The area along the Potomac River is predominantly fast shoreline while the areas along the numerous creeks have considerable marsh along the shore.

An approximate low-water line has been indicated in a few places, but no special attempt was made. It is usually very close to and parallel to the mean-high water line.

The foreshore is composed of sand and shell. There are several steep bluffs along the Potomac River shore. None of these have been indicated as they are not of landmark value.

One submerged cable has been shown on photograph 55-W-2222 where it crosses Nomini Creek. All shoreline structures were inspected and are adequately covered by field inspection notes.

8. OFFSHORE FEATURES

Several pilings, wrecks, dolphins etc. have been shown on the photographs. The wreck and the four pilings shown on chart 558 near latitude 38-08 and longitude 76-45 no longer exist.

No other offshore features were noted.

9. LANDMARKS AND AIDS

A thorough inspection of landmarks for Nautical Charts was made. One previously charted landmark has been rased and two new landmarks are recommended. Form 567 is submitted for each.

All fixed aids to navigation were identified by the direct method on the 1:10,000 scale photographs. Form 567 is submitted for each aid.

There are no aeronautical aids or interior landmarks recommended.

10. BOUNDARIES, MONUMENTS AND LINES

Boundaries affecting these maps are the state line dividing Maryland and Virginia and the county line dividing Northumberland and Westmoreland Counties. These boundaries have not been delineated on the photographs; however, the boundary limits as shown on the three quadrangle maps Stratford, Blakiston Island and Yeocomico were verified in the field. No legal descriptions or maps were available but it was felt that the compiler would have no difficulty in their delineation as each boundary follows natural features. The Maryland and Virginia boundary follows the low water line of the Potomac River. While the county boundary follows the center of the West Yeocomico River.
11. OTHER CONTROL

All previously marked topographic stations were searched for and reported on form 524. None of these stations could be found.

There were no marked topographic stations established.

To meet the minimum spacing requirements of one recoverable topographic or triangulation station about every two miles, prominent objects were used. See Director's letter of 6 December 1957, 73/rab.

The following prominent objects which were assigned topographic names are as follows:

STACK, 1958 T-10674  
GABLE FARM, 1958 T-10671  
ANTENNA ARY, 1958  
CHIMNEY CHESH, 1958 T-10674  
CHIMNEY BLEG, 1958  
CHIMNEY SHEN, 1958 T-10674  
CHIMNEY OWL, 1958 T-10670  
SOOT, 1958  
CUPOLA, 1957 T-10667  
SILO, 1957 T-10674

12. OTHER INTERIOR FEATURES

All roads were classified in accordance with the Topographic Manual, Part II.

Buildings were inspected by two separate methods. Prior to receipt of Photogrammetric Instruction 54, dated 2 January 1958, the buildings were classified in accordance with the Topographic Manual, Part II and Project Instructions. 

Upon receipt of the new instructions, the old method was discontinued.

There are no airports or landing fields within the limits of these sheets.

Clearances of two bridges and sixteen overhead cables crossing navigable waters were measured during the field inspection. These clearances, as computed by the field party are as tabulated on the following pages.

13. GEOGRAPHIC NAMES

A systematic geographic names investigation was not required. However, the field inspector checked all names within the area and one discrepancy was found in sheet T-10670. The name Gardner Creek, as shown on both Nautical Chart 558 and Quadrangle Map, Yecomico is incorrect. The name is GARVER CREEK. Five people were contacted in connection with this name and all persons contacted state that this name has been misspelled on the charts for years.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Forms, No. 526 will be transmitted to the Division of Geodesy at a later date.

A Coast Pilot Report will be submitted for the entire project at a later date.

Submitted by:
30 June 1958

Joseph H. Wilson
Chief, Photo Party 723
# TABULATION OF BRIDGE AND CABLE CLEARANCES

## BRIDGE CLEARANCES

<table>
<thead>
<tr>
<th>Waterway</th>
<th>Name or Location</th>
<th>Type</th>
<th>Measured</th>
<th>Bridge Book</th>
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<tr>
<td>Nomini Creek</td>
<td>Va. Dept. of Highways,</td>
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<tr>
<td></td>
<td>Mount Holly</td>
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<tr>
<td>Nomini Creek</td>
<td>Va. Dept.</td>
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<tr>
<td></td>
<td>of Highways,</td>
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<td>Mount Holly</td>
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<table>
<thead>
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<th>Waterway</th>
<th>Measured</th>
<th>Bridge Book</th>
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## CABLE CLEARANCES

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<td>76-39.3</td>
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<td>Jackson Creek</td>
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<td>33.0</td>
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<td>Lower Machodoc Creek</td>
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<td>76-39.4</td>
<td>35.0</td>
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<tr>
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<td>33.0</td>
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<td>Lower Machodoc Creek</td>
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<td>76-39.5</td>
<td>40.0</td>
<td>T-10669</td>
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<tr>
<td>Glebe Creek</td>
<td>38-07.4</td>
<td>76-39.3</td>
<td>33.0</td>
<td>T-10669</td>
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</table>

Cable clearances listed beginning with cable nearest eastern portion of project and proceeding west.
PHOTOGRAMMETRIC PLOT REPORT PH-161
Potomac River, Va.

21. AREA COVERED: Potomac River, Virginia lower south shore
   T 10661-10664
   T 10668-10670
   T 10674-10675

22. METHODS

   Single lens photos.

   Strip No. 1 55 W 2402 - 55 W 2410, 1:30,000 bridged and
   adjusted on IBM (points pricked on ratio photos).

   Strip No. 2 58 S 7492 - 58 S 7502, 1:40,000 bridged and
   adjusted on IBM (points pricked on contact photos)

   Strip No. 3 55 W 2355 - 55 W 2359, 1:30,000 straight
   line method - points dropped to control strip No. 4

   Strip No. 4 55 W 2279 - 55 W 2284, 1:30,000 straight
   line method

23. ADEQUACY OF CONTROL

   (1) Lynch Pt. Store Middle Chimney 1901 Stations
       furnished by field party but station has no published
       position.

   (2) S.S.Carey 1934, sub station was recovered and
       identified on '55 photos - point was hit on the bridge
       strip No. 2 and point could not be seen on the 1:40,000
       '58 photo clearly.

   (3) S.S.Mt Airy 1954, point not visible on 1:30,000
       ('55 photos) Strip No. 1. Note this point will be visible
       on North-South strip 55 W 2183-2187.

   (4) Strip No. 2 1:40,000 (58 photos) proved somewhat
       of a problem because control had been identified on '55 photos,
       hence ground sub stations were not easily visible.

24. SUPPLEMENTAL DATA: None

25. PHOTOGRAPHY

   Photography was adequate
26. Shoreline Pts dropped on strip No. 1. These points have computed position and can be plotted if desired. Points were pricked on ration photos.

Approved

Morton Keller

Submitted

George M. Beaz
9/10/58
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM G.D. OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>(B of O) 1954</td>
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<tr>
<td>NOMINI 2, R.M. 2</td>
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<td>1901 (1954)</td>
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<td>76 47</td>
<td>593.4 (867.2)</td>
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1 FT = 0.3048006 METER

COMPUTED BY: J. Steinberg  DATE: 11/21/58  CHECKED BY: Henry P. Eichert  DATE: 12/1/58
31. **DELINEATION**

   The Kelsh plotter was used for delineation. The map was edited using 1958 photographs. Minor changes were made.

32. **CONTROL**

   Horizontal control was adequate.

33. **SUPPLEMENTAL DATA**

   Geographic names standard dated 6/19/59.

34. **CONTOURS AND DRAINAGE**

   Contours inapplicable.

   It is believed that the drainage pattern was over-developed by the field party. Some of the very small stream branches were edited out to be consistent with other areas of the project.

35. **SHORELINE AND ALONGSHORE DETAILS**

   The shoreline inspection was adequate, except in the area of Nomini Cliffs. Due to the time of day and the high bluff, the shoreline was obscured by shadow on all photographs. With the field inspection as a guide, a satisfactory shoreline was delineated.

   In some areas the narrow fringe of marsh indicated by the field inspector was too small to be shown and the shoreline was delineated as fast shoreline.

36. **OFFSHORE DETAILS**

   No comment.

37. **LANDMARKS AND AIDS**

   None.
38. **CONTROL FOR FUTURE SURVEYS**

No recoverable topographic stations were established.

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

In the area of Nomini Cliffs it was not possible to furnish shoreline passpoints sufficient for normal location of photo-hydro signals.

39. **JUNCTIONS**

Satisfactory junctions were made as follows:

- North with T-10654, all water area.
- East with T-10662.
- South, no contemporary survey.
- West, with T-10927, Ph-5901.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

41. **BOUNDARIES**

The Maryland-Virginia boundary line has been omitted. Refer to the amendment to the project instructions dated 15 May 1959.

42 thru 45.

Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

AMS STRATFORD, VA. sheet 5660 III NE, scale 1:24,000, 3rd edition, 1949. This map is based on Bureau survey T-814L (1943) scale 1:20,000.

47. **COMPARISON WITH NAUTICAL CHARTS**

Chart No. 558, scale 1:40,000, 4th edition 1959, corrected to 7/2/60.

Items to be applied to nautical charts immediately: None. Items to be carried forward: None.

Respectfully submitted

Bernard Krey

Approved and forwarded

William E. Randall, CDR, USCG
Baltimore District Officer
PHOTOGRAMMETRIC OFFICE REVIEW

T- 10661

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

CONTROL STATIONS
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 alongshore cultural features

PHYSICAL FEATURES
20. Water features
21. Natural ground cover
22. Planetary 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

Reviewer
Supervisor, Review Section or Unit

Comments

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.

Compiler
Supervisor

COV-DC 34529
48. Geographic Names:

Asparagus Point
Bettys Neck
Bryant Town

Chantilly Branch
Chantilly Hill
Chiltons
Chisford
Clifton Branch
Clifton Hill
Cold Harbor Creek
Currioman Bay
Currioman Creek
Currioman Farm
Currioman Landing

Goodrich Farm
Haulover Inlet
Haulover Point
Hollis Marsh

Mount Airy
Nomini Cliffs

Old Mill Branch
Poor Jack Creek
Potomac River

Williams Point

Geographic Names Section
19 March 1963
REVIEW REPORT
Planimetric Maps
T-10661 thru T-10664, T-10668 and T-10669
May 1963

61. General Statement

These are six (6) planimetric maps of project PH-161 Lower Potomac River, Md. and Va. These maps were prepared to furnish shoreline and control for hydrographic surveys and base maps for nautical charting.

62. Comparison with Registered Topographic Surveys

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<thead>
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<tr>
<td>T-8139</td>
<td>1:20,000</td>
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<td>T-8145</td>
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There are shoreline and cultural differences but in general, the agreement is good.

63. Comparison with Maps of Other Agencies

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<tr>
<td>Stratford, Va.</td>
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<td>Blackiston Is. Va.</td>
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<tr>
<td>Piney Point, Md.</td>
<td>1:24,000</td>
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<tr>
<td>Machodoc, Va.</td>
<td>1:24,000</td>
<td>U.S.G.S.</td>
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These maps are based on Bureau surveys listed under item 62.

64. Comparison with Contemporary Hydrographic Surveys

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<tr>
<td>H-8612</td>
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Shoreline and control of subject surveys was furnished prior to hydrography therefore there is good agreement except that at Poor Jack Creek and Hollis Marsh (T-10662), some shoreline changes have been applied to H-8610. These changes probably are due to the difference in the survey time.
65. Comparison with Nautical Charts

558  1:40,000  Nov. 1962

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

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Reviewed by:

L. C. Lande

Approved by:

Chief, Cartographic Branch  Chief, Nautical Charts Division

Chief, Photogrammetry Division  Chief, Operations Division

[Signatures and dates]
### RECORD OF APPLICATION TO CHARTS

**FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.** T-10661

#### 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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>PART</th>
<th>REMARKS</th>
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FORM C&GS-5352 SUPERSEDES ALL EDITIONS OF FORM C&GS-978.