Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey  Planimetric
Field No. Ph-161  Office No. T-10653

LOCALITY
State  Maryland
General locality  Potomac River
Locality  Leonardtown

1955-1957

CHIEF OF PARTY
James P. Randall, Chief of Party
W. E. Randall, Baltimore District Officer

LIBRARY & ARCHIVES
DATE  JUN 7 1963
FORM 161
(4-23-54)

DESCRIPTIVE REPORT - DATA RECORD

T - 10653

Project No. (II): Ph-161

Field Office (II): Leonardtown, Maryland

Chief of Party: James P. Randall

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: William E. Randall

Instructions dated (II) (III): 9/16/57 - 73/rab

Ltr. from Ch. Photo. Div., 7/23/58 - 73/rrj

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Scale Factor (III): 1.000

Stereoscopic Plotting Instrument Scale (III): 1:16,000

(Pantograph ratio 3/5)

Date received in Washington Office (IV): 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: M.H.W.

Elevations shown as (25) refer to mean high water

Elevations shown as (2) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): SEARS, 1934

Lat.: 38° 16' 10.076" (310.7 m)

Long.: 76° 39' 52.498" (1276.2 m)

Adjusted

Plane Coordinates (IV):

X =

State: Zone:

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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): James P. Randall
Robert S. Tibbetts
Mathew A. Stewart
Date: June thru Sept. 1958

Planetary contouring by (II): Inapplicable

Completion Surveys by (II):

Mean High Water Location (III) (State date and method of location): 11 November 1955, supplemented by photography taken 5 January 1958, photogrammetric.

Projection and Grids ruled by (IV): P. J. Dempsey
Date: 11/17/58
Projection and Grids checked by (IV): R. D. Shoup
Date: 11/19/58
Control plotted by (III): D. M. Brant
Date: 3/7/60

Control checked by (III): H. P. Eidert
Date: 3/7/60

Radial Plot or Stereoscopic Control extension by (III):

Stereoscopic Instrument compilation (III):

Planimetry J. D. McEvoy
Date: 7/26/60

Scribed

Manuscript scribed by (III): J. C. Cregan
Date: 3/17/61

Photogrammetric Office Review by (III): D. M. Brant
Date: 9/23/60

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


Camera (kind or source) (III): G&G Types "W" and "S", 6" focal length.

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time (E.S.T.)</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>55-W-2236</td>
<td>11/11/55</td>
<td>12:35</td>
<td>1:30,000</td>
<td>No tidal waters</td>
</tr>
<tr>
<td>55-W-2237</td>
<td></td>
<td></td>
<td></td>
<td>1.9' above M.L.W.</td>
</tr>
<tr>
<td>thru 2239</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>58-S-7519</td>
<td>7/5/58</td>
<td>13:07</td>
<td>1:40,000</td>
<td>1.8'</td>
</tr>
</tbody>
</table>

Tide (III)
(From predicted tables)

<table>
<thead>
<tr>
<th>Ratio of</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ranges</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.9'</td>
<td>3.3'</td>
<td></td>
</tr>
<tr>
<td>0.59</td>
<td>1.7</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Reference Station: Washington, D.C.
Subordinate Station: Leonardtown, Breton Bay, Maryland

Washington Office Review by (IV):
Final Drafting by (IV):
Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 12
Shoreline (More than 200 meters to opposite shore) (III): 10.4 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 4
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 20
Recovered: 10
Identified: 5
Number of BMs searched for (II):
Recovered: 10
Identified: 5

Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III):

Remarks:
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
<th>LATITUDE OR ( \phi )-COORDINATE</th>
<th>LONGITUDE OR ( \lambda )-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 GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOXXWELL (MSFC), 1908</td>
<td>MD p. 129</td>
<td>NA</td>
<td>164.201.73</td>
<td></td>
<td>906,029.11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PINE (MSFC), 1908</td>
<td></td>
<td></td>
<td></td>
<td>158.699.72</td>
<td>906.194.59</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABBELL, 1942</td>
<td>MD p. 110</td>
<td>II</td>
<td>158.661.39</td>
<td></td>
<td>908.373.85</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MOULDY (MSFC), 1908</td>
<td>MD p. 129</td>
<td>II</td>
<td>157.592.66</td>
<td></td>
<td>905.022.72</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOVERS (MSFC), 1908</td>
<td>MD p. 128</td>
<td>II</td>
<td>155.838.73</td>
<td></td>
<td>901.604.89</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BELLE (MSFC), 1908</td>
<td></td>
<td>II</td>
<td>158.870.90</td>
<td></td>
<td>902.308.78</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEARS, 1934</td>
<td>MD p. 18</td>
<td>II</td>
<td>159.005.95</td>
<td></td>
<td>896.303.05</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOLLOW (MSFC), 1908</td>
<td>MD p. 128</td>
<td>II</td>
<td>158.056.00</td>
<td></td>
<td>899.055.86</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LEONARDTOWN WATER TANK, 1934</td>
<td>MD p. 111</td>
<td>II</td>
<td>160.358.38</td>
<td></td>
<td>904.214.84</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LEONARDTOWN CATHOLIC CHURCH SPIRE, 1942</td>
<td>MD p. 111</td>
<td>II</td>
<td>167.917.09</td>
<td></td>
<td>901.512.54</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub. Pt. LEONARDTOWN WATER TANK, 1934</td>
<td>Comp.</td>
<td>II</td>
<td>168.122.39</td>
<td></td>
<td>904.183.99</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub. Pt. SEARS, 1934</td>
<td></td>
<td>II</td>
<td>159.110.77</td>
<td></td>
<td>896.392.81</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 FT. = 0.3048006 METER

COMPUTED BY: J. Steinberg DATE: 11/25/58

CHECKED BY: H. P. Eichert DATE: 11/26/58
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-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 GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub. Pt. ABELL, 1942</td>
<td>Comp.</td>
<td>N.A. 1927</td>
<td>154,786.42</td>
<td>908,103.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub. Pt. (1958) PINE, 1908</td>
<td></td>
<td></td>
<td>158.690.4</td>
<td>906.156.7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub. Pt. (1959) PINE, 1908</td>
<td></td>
<td></td>
<td>158.317.0</td>
<td>906.116.7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The field report and photogrammetric plot report are bound in the Descriptive Report for T-10651.

31. **DELINEATION**

The Kelsh Plotter was used for delineation using the photography taken in 1955. The delineation was revised with the 1958 photography and minor changes were made in roads, tree lines, and drainage.

Field inspection other than interior perennial drainage was adequate.

32. **CONTROL**

The identification, density and placement of horizontal control was adequate.

33. **SUPPLEMENTAL DATA**

Geographic name standard, dated 19 June 1959.

Leonardtown Boundary Survey Plat. Plat was used in locating the incorporated limits of Leonardtown.

34. **CONTOURS AND DRAINAGE**

Contours - Inapplicable.

There was no interior drainage field inspected on this manuscript. The perennial drainage was delineated from photo-interpretation of the 1958 photography.

35. **SHORELINE AND ALONGSHORE DETAILS**

Shoreline inspection was complete and adequate. There were no low-water and shoal lines furnished by the field party and none were delineated from office interpretation of the photographs. Changes made using 1958 photographs were minor consisting mainly of addition or deletion of piers.

36. **OFFSHORE DETAILS**

No unusual problems were encountered in compiling details offshore from the high-water line.

37. **LANDMARKS AND AIDS**

There are two non-floating aids to navigation on this manuscript which have been recommended to be charted. Form 567 was submitted 14 July 1960. A copy of Form 567 is bound with the Descriptive Report for T-10651.
36. **CONTROL FOR FUTURE SURVEYS**

ABELL AZ. MK. (1942) 1958 was identified by the field party and its position established photogrammetrically. Form 524 is submitted herewith.

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.

39. **JUNCTIONS**

Junction has been made with T-10656 and T-10657 to the south and T-10652 to the west. There are no contemporary surveys to the north and east.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

41. **BOUNDARIES**

The boundary for the incorporated limits of Leonardtown, Maryland was delineated from the four field identified monuments (established in stereoplagnetograph bridge) and the Leonardtown Boundary Survey Plat.

42 thru 45. Inapplicable

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with the following maps:
Bureau Survey T-8442, scale 1:20,000, issued July 1949.

47. **COMPARISON WITH NAUTICAL CHARTS**

Chart No. 558, scale 1:40,000, 4th edition dated 11/16/59 - corrected to 7/2/60.

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

Approved and forwarded

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

Respectfully submitted
23 September 1960

Donald M. Brant
Carto. (Photo.)
PHOTOGRAMMETRIC OFFICE REVIEW
T. 10653


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

ALONGSHORE AREAS
(Nautical Chart Data)
17. Landmarks  18. Other along-shore physical features  19. Other along-shore cultural features

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines  32. Public land lines

MISCELLANEOUS
33. Geographic names  34. Junctions  35. Legibility of the manuscript  36. Discrepancy overlay

Reviewer

Supervisor, Review Section or Unit

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

43. Remarks:
48. Geographic Names:

Abells Wharf
Beauvue
Breton Bay
Britton
Buzzard Point
Cecil Creek
Cherry Cove Creek
Combs Creek
Fox Point
Glebe Run
Leonardtown
Lovers Point
McIntosh Run
Moll Dyers Run
Mulberry Point
Nelson Run
Pawpaw Hollow
Pawpaw Point
Society Hill
Town Run
61. General Statement

These are seven (7) 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

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-8115</td>
<td>1:20,000</td>
<td>1943</td>
</tr>
<tr>
<td>T-8139</td>
<td>1:20,000</td>
<td>1943</td>
</tr>
<tr>
<td>T-8140</td>
<td>1:20,000</td>
<td>1943</td>
</tr>
<tr>
<td>T-8141</td>
<td>1:20,000</td>
<td>1943</td>
</tr>
<tr>
<td>T-8442</td>
<td>1:20,000</td>
<td>1942</td>
</tr>
</tbody>
</table>

Minor cultural and shoreline changes have taken place and several aids to navigation have been rebuilt or relocated since the above listed surveys were made. T-10651 thru T-10657 are to supersede the above listed surveys of identical areas for nautical charting purposes.

63. Comparison with Maps of Other Agencies

<table>
<thead>
<tr>
<th>Agency</th>
<th>Scale</th>
<th>Source</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rock Point Md.</td>
<td>1:24,000</td>
<td>U.S.G.S.</td>
<td>1943</td>
</tr>
<tr>
<td>Stratford Va., Md.</td>
<td>1:24,000</td>
<td>U.S.G.S.</td>
<td>1943</td>
</tr>
<tr>
<td>Blackistion Island Va.,</td>
<td>1:24,000</td>
<td>U.S.G.S.</td>
<td>1943</td>
</tr>
<tr>
<td>Finey Pt. Va., Md.</td>
<td>1:24,000</td>
<td>U.S.G.S.</td>
<td>1943</td>
</tr>
<tr>
<td>Leonardtown Md.</td>
<td>1:62,500</td>
<td>U.S.G.S.</td>
<td>1936-1950</td>
</tr>
</tbody>
</table>

In general, the agreement is good, but there are minor cultural and shoreline differences.

64. Comparison with Contemporary Hydrographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-8550</td>
<td>1:10,000</td>
<td>1960</td>
</tr>
<tr>
<td>H-8551</td>
<td>1:10,000</td>
<td>1960</td>
</tr>
<tr>
<td>H-8552</td>
<td>1:10,000</td>
<td>1960</td>
</tr>
<tr>
<td>H-8611</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
<tr>
<td>H-8613</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
</tbody>
</table>

Some of the above surveys have been verified, all are subject to review.
Shoreline and control of the subject surveys was furnished prior to the hydrographic and as no changes of importance have been made there is good agreement.

65. Comparison with Nautical Charts

556  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.

Submitted by:

L. C. Lande

Approved by:

Charles Hume  L. C. Lande
Chief, Cartographic Branch  Chief, Nautical Charts Division

Chief, Photogrammetric Division  Chief, Operations Division
### 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>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
</tbody>
</table>
NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
</tbody>
</table>