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

State: Virginia

DESCRIPTION REPORT.
Topographical Sheet No. 4222

LOCALITY:
Potomac River - W. Side
Gunston Cove

1926

Chief of Party:
F.L. Peacock
DEPARTMENT OF COMMERCE
U. S. COAST & GEODETIC SURVEY
E. LESTER JONES, DIRECTOR

DESCRIPTIVE REPORT
To Accompany
TOPOGRAPHIC SHEET
GUNSTON COVE
POTOMAC RIVER
Fairfax County, Virginia

U. S. C. & G. S. Launch MIKAVE
Season 1926

Chief of Party
DESCRPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET
of
GUNSTON COVE
FAIRFAX COUNTY, VIRGINIA

LOCALITY:

The topography executed on this sheet consists of the shoreline bordering Gunston Cove, Fairfax County, Virginia (An Arm of the Potomac River), and its approaches. It does not include the extremities of Pohick and Accotink Bays, two small bays at the head of Gunston Cove.

CONTROL:

The control consists of Third Order Triangulation established by this party. The triangulation stations occur at frequent intervals (about one-half to one and one-half statute miles apart).

PERSONNEL:

The topography on this sheet was done by four Deck Officers, Mr. H. C. Westby, Mr. C. Le Fever, Mr. L. P. Sewles, and
Mr. R. L. Tellman, attached to the party for training, and with some field supervision and illustrative work by Mr. L. C. Wilder, Jr. H. & G. E.

METHOD:
The shoreline was surveyed principally by the traverse method altho three-point fixes and plane-table triangulation were exemplified.

All traverses concluded with negligible errors, except a traverse from O DOG to A LIGHT, which had a closing error of about 20 meters in azimuth, and 10 meters in distance. This error was adjusted by the usual methods. Plane-table triangulation was extended in Fohick Bay from Stations FOHICK and ACCO to Signals DIP and FIF.

PURPOSES:
The purpose of this sheet was (a) to locate intermediate signals for detailed revision hydrography, (b) to test the permanency of the shoreline as compared with the date of the original survey, (c) to afford each of the Junior Officers attached to the party at the time some practical experience in plane-table work, and methods.

GENERAL OBSERVATIONS:
Due to limited time available, the survey did not include as much detail adjacent to the shoreline, as was desirable (locations of
buildings, roads, etc."

The wharves at O OLID, O PER, O OUT, O UP, and near
A GUNSTON are dilapidated and unfit for use as wharves.

Comparisons of this survey with photostats of the original survey appears to indicate that there was a lack of adequate control for large scale reproduction in the interior of the cove at the time of the original survey.

The rodding was all done by the above mentioned Junior Officers.

STATISTICS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miles of shoreline surveyed</td>
<td>9.4 statute miles</td>
</tr>
<tr>
<td>Miles of creeks surveyed</td>
<td>0.1 &quot; &quot;</td>
</tr>
<tr>
<td>Miles of roads surveyed</td>
<td>0.1 &quot; &quot;</td>
</tr>
<tr>
<td>Area surveyed</td>
<td>0.6 sq. stat. miles</td>
</tr>
</tbody>
</table>

Respectfully submitted,

L. P. Sowles,
Deck Officer, C. & G. Survey.

Approved:

Fred L. Peacock,
H. & G. Eng'r., C. & G. Survey,
Chief of Party.
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
WASHINGTON February 19, 1927.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4222
Gunston Cove, Potomac River
Surveyed in 1926

No instructions available

Chief of Party, F. L. Peacock.

Surveyed by L. G. Wilder and training party.

Inked by C. LeFever.

1. The records conform to the requirements of the General Instructions.

2. The plan and character of the survey conform to the requirements of the General Instructions, except for the omission of a magnetic meridian.

3. The junctions with the previous surveys are adequate.

4. No further surveying is required.

5. The field drafting is satisfactory except in one respect -- too vigorous use of eraser in cleaning the sheet was exercised and the shoreline was thinned out so that much of it had to be redrawn.

6. The character and scope of the field work is excellent.

7. Reviewed by E. P. Ellis, February, 1927.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4222

State: Virginia

General locality: Fairfax, County, W Side of Potomac River

Locality: Gunston Cove

Chief of party: Fred, L. Peacock, H. & G. Eng'rs.


Curtis Le Fever, D. O.

Date of survey: Nov. 12, to Dec. 11, 1925.

Scale: 1:10,000

Heights in feet above

Contour interval... feet.

Inked by C. Le Fever... Lettered by...

Records accompanying sheet (check those forwarded): Photographs, Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet...

Remarks: