DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Va., D.C.

DESCRIPTIVE REPORT.

Topo. Sheet No. 4109

LOCALITY:

Potomac R.

Key Bridge to N.W. Boundary, D.C.

1925

CHIEF OF PARTY:

G.L. Bean
DESCRIPITIVE REPORT

Topographic Sheet No. 4109

Potomac River from Key Bridge to District of Columbia, Northwest Boundary.

April 1925 - Scale 1:10,000.
Geo. L. Bean, Chief of Party.

This topographic survey was executed in accordance with the Director's Orders of March 24, 1925, and at the request of the Commissioner of Public Parks and Public Buildings, District of Columbia.

It extends from the vicinity of Key Bridge, Georgetown, to the vicinity of the Northwest Boundary of the District of Columbia, following the Potomac River. On the District side no topography except the bank of the river was done. On the Virginia side, as much of the topography as could be run from the bank of the river was done.

The party consisted of three rodmen, an umbrella man, a Junior Engineer and myself. The hands and truck were furnished by the Commissioner of Public Buildings, and the officers and instruments by the Coast Survey. The usual Coast Survey methods were employed, except that three rods were used instead of two.

The topography was all done from the Virginia side of the river except North of Chain Bridge, one rodman following the District shore, one the Virginia shore, and the third going along the bluffs, giving readings wherever he could be seen. It was not necessary to traverse as there are so many triangulation stations that all setups were made at a triangulation point or located by the three point method. The following triangulation stations were made use of:

<table>
<thead>
<tr>
<th>Bridge</th>
<th>Simpson</th>
<th>Hah</th>
</tr>
</thead>
<tbody>
<tr>
<td>New</td>
<td>Chimney</td>
<td>Camp</td>
</tr>
<tr>
<td>Ledge</td>
<td>Voir</td>
<td>Res</td>
</tr>
<tr>
<td>Up</td>
<td>Seth-Ch-Spire</td>
<td>Rock</td>
</tr>
<tr>
<td>Garage</td>
<td>Tree</td>
<td>Sand</td>
</tr>
<tr>
<td>Oak</td>
<td>Big</td>
<td>Drill</td>
</tr>
<tr>
<td>Galena</td>
<td>Creek</td>
<td>Bluff</td>
</tr>
<tr>
<td>Hole</td>
<td>Chain</td>
<td>Out</td>
</tr>
<tr>
<td>Red</td>
<td>In</td>
<td>Rap</td>
</tr>
</tbody>
</table>

Much difficulty was experienced in getting a sufficient number of elevations due to the heavy foliage. After getting all the elevations possible along the Virginia shore, setups were made at the triangulation points along the bluff on the District side, and as many elevations on the Virginia side, as possible, determined. Contours are drawn with a twenty foot interval. The elevations of stations on the District side had been determined by wye levels, and on the Virginia side by double zenith distances.
The terrain along the Virginia shore is exceedingly rugged, and heavily wooded with deciduous vegetation. The hills rise abruptly from the river to an elevation of about two hundred feet, cut by numerous ravines, and the river bank, for the most part, is formed by ledges and boulders. Extensive quarrying operations have formed high cliffs most of the way, and spoil banks lie along the shore. Two quarries are in active operation at present. Rip rap and road materials only are produced, there being no attempt to cut or shape the stone.

There is a trail which follows the river bank all of the way and a great many campers live along the river during the warmer months, dwelling in tents or temporary cottages. There is a rough road leading down to the river about one-half mile above Key Bridge.

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miles of shoreline</td>
<td>5.6 stat. mi.</td>
</tr>
<tr>
<td>Area</td>
<td>3.0 sq. stat. mi.</td>
</tr>
<tr>
<td>Number of elevations</td>
<td>136</td>
</tr>
<tr>
<td>Miles of road</td>
<td>0.75 stat. mi.</td>
</tr>
</tbody>
</table>

Respectfully submitted,

[Signature]
Geo. L. Bean
H. & G. Engineer.
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. ...4109....

State District of Columbia- Virginia

General locality Potomac River.

Locality Key Bridge to N.W. Boundary, D.C.

Chief of party Geo. L. Bean.

Surveyed by Geo. L. Bean.

Date of survey April 1925.

Scale 1:10,000.

Heights in feet above Mean Sea Level.

Contour interval 20 feet.

Inked by Geo. B. Lettered by Geo. B.

Records accompanying sheet (check those forwarded): Photographs, XDescriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet Elevations of triangulation stations with wye level and triangulation data.

Remarks: On West District side of the river, only the bank of the river was run.