

4109

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Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
State: <u>Va., D.C.</u>	
11-5613	
DESCRIPTIVE REPORT.	
Topo. _____	Sheet No. <u>4109</u>
LOCALITY:	
<u>Potomac R.</u>	
<u>Key Bridge to N.W. Boundary, D.C.</u>	
1925	
CHIEF OF PARTY:	
<u>G.L. Bean</u>	

DESCRIPTIVE 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:

Bridge	Simpson	Hah
New	Chimney	Camp
Ledge	Voir	Res
Up	Cath. Ch. Spire	Rock
Garage	Tree	Sand
Oak	Big	Drill
Galena	Creek	Bluff
Hole	Chain	Out
Red	In	Rap

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 the District side had been determined by wye levels, and on the Virginia side by double zenith distances.

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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.

Miles of shoreline	5.6 stat. mi.
Area	3.0 sq. stat. mi.
Number of elevations.....	136
Miles of road.....	0.75 stat. mi.

Respectfully submitted,

Geo. L. Bean
Geo. L. Bean
H. & G. Engineer.

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. 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 G.L.B. Lettered by G.L.B.

Records accompanying sheet (check those forwarded): Photographs,

☒ Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet Elevations of triangulation stations with wye level and triangulation data.

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