

83
STA

3490

C. & G. SURVEY,
LIBRARY AND ARCHIVES
APR-7 1915
Acc. No. _____

3490

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. S. Guttman
Superintendent.

State: *N. J.*

DESCRIPTIVE REPORT.

Top. Sheet No. *3490*

LOCALITY:

Hackensack
River

1914-15

CHIEF OF PARTY:

S. Forney

X

(a) General Description

Within the limits of this sheet the shores on the eastern and western sides of the Hackensack River are Meadows or Marsh land interspersed with creeks. Except at Snake Hill which rises out of the marsh is a trap rock formation and is 208 feet above mean high water the county buildings of Hudson County are located here, Poor's House, Asylum, Tuberculosis Hospital and County Jail. The property is known as The Hudson County Farm. Little Snake Hill to the eastward is also an isolated hill and has an elevation of 60 feet above mean high water.

(1) Method of Survey

The Topography was executed with the Plane Table and was based on a system of Tertiary Triangulation brought over from the triangulation on the Passaic River, at Little Ferry Bridge my triangulation was connected with a base line measured by the Army Engineers with the following results.

Length of base measured by Army Engineers 619.465 feet length of computed base C. & G. Survey Triangulation 619.631 feet. The heights were obtained by vertical angles measured with the vertical arc on the Plane Table Alidade, and were referred to mean high water. The heights are expressed in feet, and show the elevations above mean high water. The contours are given for every 20 feet difference of level, the full red lines indicate the 20 foot curves, the broken red lines show intermediate 10 foot curves.

Stephen A. Jung
and C. B. Jung

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

*Approximate Positions of Plane Table
Stations as Scaled from Topo-
graphic Sheet F.*

<i>Name</i>	<i>Description</i>	<i>Latitude & Longitude</i>	<i>Seconds in meters</i>
<i>Alms.</i>	<i>Alms House Chy</i>	<i>40° 45'</i>	<i>1398</i>
	<i>Hudson County</i>	<i>74 05</i>	<i>161</i>
	<i>Farm</i>		
<i>D. L.</i>	<i>Draw bridge Chy</i>	<i>40 46</i>	<i>1302.</i>
	<i>D. L. & W. R. R.</i>	<i>74 05</i>	<i>579</i>
	<i>bridge</i>		
<i>Bridge</i>	<i>Switch house Chy.</i>	<i>40 47</i>	<i>642</i>
	<i>N.W. end of Erie</i>	<i>74 04</i>	<i>1365</i>
	<i>R.R. bridge. N.Y.</i>		
	<i>& N. J. R. R.</i>		

Wetmore Henry
Chief of Party

2116 Seminary Ave.,

Chicago, Illinois

October 22, 1916.

Dr. E. Lester Jones, Brig. Gen.,

U.S. Coast and Geodetic Survey,
Washington, D.C.

Sir:

Your letter of October 17 received. Refer to No. 12-114.

The plane table work on the three sheets of the Hackensack River survey by Captain Torrey, 1914 and 1915, and on the two sheets of the Arthur Hill survey, 1915, was done by me, or aided, and by George C. Full, Head man. I did about three quarters of the plane table work of each survey, and Mr. Full about one quarter. I could probably tell you very closely just what part was done by each of us if I had the sheets to refer to, but without them can only give you the above general statement.

Would it be possible for me to obtain copies of these sheets for my own use? If so, what would they cost?

Have the charts been revised yet to embody the work done by Captain Torrey's party?

I shall be pleased to give you any further information with regard to the work that it is within my power to give.

Respectfully,

Harold H. Giffins.