

4749

U.S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: New York

DESCRIPTIVE REPORT
4749

Topographic } Sheet No. "A", 1933
~~Hydrographic~~

LOCALITY

Hudson River

Con Hook Light to Garrison

19 33

CHIEF OF PARTY

C. A. Egner

U.S. G-8

4749

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC

SHEET "A", 1 9 3 3, HUDSON RIVER,

NEW YORK. MOTOR VESSEL NATOMA,

C. A. EGNER, COMMANDING. PROJECT NO. 147

* * * * *

CON HOOK LIGHT TO GARRISONS, NEW YORK.

D E S C R I P T I V E R E P O R T
T O A C C O M P A N Y
T O P O G R A P H I C S H E E T " A "
C O N H O O K T O G A R R I S O N S
H U D S O N R I V E R, N E W Y O R K
P R O J E C T N O. 1 4 7, 1 9 3 3

M. V. N A T O M A

C. A. E G N E R, C O M ' D G.

I N S T R U C T I O N S :

There were no instructions issued to cover work on this project. However, as work was similar to that executed on lower sections of the river, those instructions were considered to apply.

M E T H O D O F S U R V E Y :

The usual plane-table method was used. Hydrographic signals were located by intersection from triangulation stations. Topography along the shore was run directly from these signals, or from three-point fixes. No elevations were taken as this area is covered by Geological Quadrangle maps.

EXTENT:

This sheet comprises a survey of the shore line and adjacent topography from Con Hook Light to Garrisons, including Highland Falls and the southern boundary of West Point.

DESCRIPTION:

The shore line on both sides of the river is rocky.

All roads shown with solid lines were located by traverses. Private roads and trails, shown in broken lines, were sketched in after buildings which they connect to the main highway had been located from traverse either by rod readings or intersection. Fences and boundary lines of vegetation were sketched in.

The West Point Military Reservation boundary line is located by triangulation station SECOR 1933 and by traverse up highway No. 9-W.

The triangulation stations on this sheet was plotted from 1932 datum. The discrepancy in that and the 1933 datum is hardly appreciable in plotting.

JUNCTIONS:

This sheet joins sheet ^{T-4739} "G" of 1932 at triangulation station CONS HOOK and sheet "B" of 1933 at triangulation station BLOCKHOUSE. _{T-4750}

NAMES:

Glenclyfe Siding is the name used by the New York Central Railroad for the spur track and tool sheds located on the site formerly known as "Ardens Dock". The name Ardens Dock is not known locally and for that reason was not put on the sheet.

STATISTICS:

Shore line	5.8 statute miles
Traverse	9.5 " "
Area, in square miles	2.0

LANDMARKS:

Landmarks are shown on Form No. 567, "Landmarks for Charts".

Respectfully submitted,

Paul Taylor
Paul Taylor,
Aid, U.S.C. & G. Survey.

Approved and forwarded;

C. A. Egner
C. A. Egner
Lieut. U.S.C. & G. Survey,
Commanding M. V. NATOMA.

TOPOGRAPHIC SIGNALS

Sheet "A", 1933

NAME	Latitude		Longitude		DESCRIPTION
	Deg. Min.	" in meters	Deg. Min.	" in meters	
Kim	41 20	1683 (168)	73 57	656 (739)	Chimney on small house
But	41 21	72 (1779)	73 57	632 (763)	Not recoverable
Girl	41 21	275 (1576)	73 57	572 (823)	Railroad flagmans shanty
She	41 21	457 (1394)	73 57	585 (810)	Not recoverable
Boy	41 21	738 (1113)	73 57	563 (832)	Black railroad switch box.
Flag	41 21	814 (1037)	73 57	391 (1004)	Chimney on red brick house
Red	41 21	920 (931)	73 57	566 (829)	Railroad flagmans shanty
Man	41 21	1061 (790)	73 57	548 (847)	Not recoverable
Watch	41 21	1240 (611)	73 57	562 (833)	Not recoverable
White	41 21	1686 (165)	73 57	534 (861)	Not recoverable
In	41 21	1848 (3)	73 57	476 (919)	Black railroad switch box
Box	41 22	216 (1635)	73 57	410 (985)	Not recoverable
Road	41 22	345 (1506)	73 57	387 (1008)	Not recoverable
Rail	41 22	492 (1359)	73 57	328 (1067)	Not recoverable
Zoo	41 22	887 (964)	73 57	280 (1115)	Not recoverable
To	41 22	1021 (830)	73 57	183 (1212)	Not recoverable
Bite	41 22	1166 (685)	73 57	114 (1281)	Not recoverable

NAME	Latitude		Longitude		DESCRIPTION
	Deg. Min.	" in meters	Deg. Min.	" in meters	
Cow	41 22	1371 (480)	73 56	1309 (86)	Not recoverable
Ray	41 22	1563 (288)	73 56	1228 (167)	Black railroad switch box
Gas	41 22	1663 (188)	73 56	1219 (176)	Not recoverable
Slip	41 22	1788 (63)	73 56	1245 (150)	Sunken ferry stack
Sig	41 21	392 (1459)	73 57	1084 (311)	Not recoverable
Try	41 21	685 (1166)	73 57	1166 (229)	Not recoverable
Be	41 21	1131 (720)	73 57	1139 (256)	Not recoverable
Gab	41 21	1321 (530)	73 57	1180 (215)	Red house, east gable
On	41 21	1430 (421)	73 57	1091 (304)	Not recoverable
Lee	41 21	1630 (221)	73 57	1094 (301)	Not recoverable
Beer	41 22	85 (1766)	73 57	1059 (336)	Not recoverable
Gin	41 22	247 (1604)	73 57	994 (401)	Railroad watch- mans shanty
Cross	41 22	596 (1255)	73 57	963 (432)	Cross on Lady- clyffe sign
Pole	41 22	611 (1240)	73 57	931 (464)	Not recoverable
Pay	41 22	941 (910)	73 57	873 (522)	Not recoverable
Ed	41 22	1209 (642)	73 57	799 (596)	Not recoverable
Ate	41 22	1553 (298)	73 57	713 (682)	Not recoverable

REVIEW OF TOPOGRAPHIC SURVEY No. 4749

Title (Par. 56) *Con Hook to Garrison, Hudson River, New York*
 Chief of Party *C. A. Egner* Surveyed by *Paul Taylor* Inked by *Paul Taylor*
 Ship *Natoma* Instructions dated *July 22, 1930* Surveyed in *July-Aug. 1933*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
No elevations determined
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *None shown*
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None submitted; refers to Geological Survey Quadrangle maps for this area.*
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~
11. ~~Locations and elevations of summits are given. (Par. 19, 31.)~~
12. ~~The tree line was shown on mountains. (Par. 16g.)~~

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. ^{No} ~~The~~ descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of LMs and DPs, 68.)
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. ✓ (Par. 17, 52.)
18. The geographic datum of the sheet is *North American* and the reference station is correctly noted. (Par. 34.)
19. Junctions with contemporary surveys are adequate. *Small discrepancies exist in the junction with T 4739.*
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 68k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. ^s The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~
24. Remarks:

Reviewed in office by *R. J. Christman, Oct. 30, 1933.*

Examined and approved:

K. T. Adams
Chief, Section of Field Records

L. O. Solbert
Chief, Division of Charts

F. S. Borden
Chief, Section of Field Work

G. W. Rude
Chief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4749

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
OCT 12 1933
Acc. No. _____

Field No. A

REGISTER NO. 4749

State New York

General locality Hudson River

Locality Con Hook ~~Light~~ to Garrisons

Scale 1/5:000 Date of survey July - Aug., 19 33

Vessel M. V. NATOMA

Chief of Party C. A. Egner

Surveyed by Paul Taylor, Aid.

Inked by Paul Taylor

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated continued from season of 1931, 19 _____

Remarks: no elevations taken as this area is covered by maps of the Geological Survey.

APPLIED TO ALUMINUM-MOUNTED DRAWING OF THE RECONSTRUCTION
OF CHART No. 282

J. M. Albert

Oct. 1934