

U- S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

JAN 23 1933

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DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R.S. Patton, Director State: New York DESCRIPTIVE REPORT Topographic Expriregraphic Sheet No. "D" 4702 LOCALITY Crotofic ON Hudson River, South of Heverstraw to Grassy Point. 19.32 CHIEF OF PARTY C. A. Egner	DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R.S. Patton, Director State: New York DESCRIPTIVE REPORT Topographic Engireographic Sheet No. "D" 4702 LOCALITY Hudson River, South of Haverstraw to Grassy Point. 19.32. CHIEF OF PARTY C. A. Egner		
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DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET "D", PROJECT 108

HUDSON RIVER, NEW YORK

SOUTH OF HAVERSTRAW TO GRASSY POINT

INSTRUCTIONS:

There were no instructions issued to cover the topography under this project. As the work was similar to that executed in 1930 on the lower sections of the river, instructions for that year were considered to apply.

METHODS OF SURVEY:

Methods described in the Topographic Manual 144 were used. Signals were located by cuts from triangulation stations, where possible, three-point fixes, and by traverse. It was impossible to locate all signals by cuts because of the width of the river in this section. Six traverses were run; (1) on the west side of the river from triangulation station PECK 2, 1932, to signal Rain. Signals in the limits of this traverse were located by rod readings and cuts from set-ups; (2) from triangulation station PECK 2, 1932, to lake west of Bowlines Point. This was a short traverse of one set-up from PECK 2, 1932. (3) From GRASSY 2, 1932, around the north end of Grassy Point and back to GRASSY 2, 1932. This traverse closed flat. All signals in the limits were located by rod readings only. (4) On the east side of the river from triangulation station CROW to triangulation station CURVE. All signals in the limits of this traverse were located by rod readings and cuts from setups. The traverse closed to two meters and adjustments made. (5) After adjusting the traverse, a spur line was run to get the layout of the town of Croton. (6) From signal Ox eastward along road leading east from Oscawana railroad station. (7) And from signal Tug eastward to the railroad. These last three short traverses were not closed.

On the west side of the river five three-point fixes were taken; (1) Just south of signal White to get the shore line from signal Buff to signal White. (2) On the edge of lake west of signal Ash. (3, 4, &5) In the vicinity of Minisceongo and Cedar Creeks.

DESCRIPTION:

The shore line on the east side of the river is quite uniform, rocky and abrupt. There is practically no change in the shore line at high and low water.

On the west side of the river the shore line is almost completely lined with docks. Most of the docks have not been used in many years and are in disrepair.

The lakes shown on the west side of theriver are formed by excavations for the brick industry.

On the west side of the river up as far as triangulation station SPIRE, 1932, no attempt was made to obtain topographic features other than those in the immediate vicinity of the shore line as this section is covered by aerial photographs. Prominent spires, water tanks, and buildings were located by triangulation and cuts. Triangulation stations were plotted on the sheet to facilitate the adjusting of the photographs. On the photographs triangulation stations are indicated by black circles and the topographic signals by green circles. On the east side of the river the general feature back from the shore line is abrupt and thickly wooded to about $\frac{1}{4}$ mile. There were no buildings or prominent objects that could be located.

The topographic features just west of the shore line from Haverstraw to Grassy Point have changes considerably due to the fact that the brick industry in this section has been discontinued. The buildings and kilns that once showed so prominently are now in disrepair and are not shown on this sheet.

CONTROL:

The control was furnished by second and third order triangulation brought forward from Project 66, Hudson River, New York, 1930.

MAGNETIC DECLINATIONS:

Magnetic Declinations were taken at triangulation stations BOAT, 1932, and LEDGE, 1932.

NEW NAMES:

None--the lakes shown on the west side of the river are not named.

STATISTICS:

Shore line

18.6 statute miles.

Traverse

6.0 statute miles.

Area

8.9 sq. statute mi.

LANDMARKS:

Shown on Form 567 "Landmarks for Charts."

Respectfully submitted,

John C. Bull,

Aid.

Approved and forwarded,

C. A. Egnør,

H. & C./Ingineer,

Commanding NATOMA.

T4702-1

NAME	LATITUDE	LONGITUDE	DESCRIPTION
East side	o meters	o 'meters	•
Fly .	41-11 (106.2)	73-53 450.9 (946.8)	N. R.
Ad	41-12 82.3	(979.2)	N. R.
Dol	177.0 (1673.9)	585.1 (812.6)	N. R.
Fish	280.0 (1570.9)	567.8 (829.9)	Fire sirene
Soap	282.2 (1568.7)	797.2 (600.0)	N. R.
Yel	406.0 (1444.9)	639.6 (758.1)	Yellow gable.
Rail	563.2 (1287.7)	797.2 (600.5)	Small brick house.
Stuc	711.5 (1139.4)	848.3 (549.4)	White stucco house, green roof.
Bite	830.6 (1020.3)	(467.7)	Brick house, w. porch.
Dog	779.3 (1071.6)	(182.2)	N. R.
Bug	844.9 (1006.0)	(57.3)	N. R.
Ship	1036.6 (814.3)	73-54 186.7 (1211.0)	N. R.
Kid	1228.8 (622.1)	452.5 (945.2)	N. R.
Stop	139 7. 3 (453.6)	621.2 (776.5)	Flag station -
Goat .	1492.7 (358.2)	774.4 (623.3)	N. R.

NAME .	LATITUDE	LONG	ITUDE	DESCRIPTION
East side	o 'meters	o •	meters	
Cot	41-13 31.2 (1819.7)		1053.3 (344.4)	N. R.
Ring .	223.3 (1627.6)		1216.3 (181.4)	N. R.
Con	3 59.8 (1 49 1.9)		1264.3 (133.4)	Stripped box, R.R.
Hill	519.7 (1331.2)		19.5 (1378.2)	N. R.
Jack	640.0 (1210.7)		183.5 (1214.2)	Flag station.
Drum	752.0 (1098.9)			SW edge of small yellow house wouth of station at Oscawana.
Οx	909.8 (941.1)		.519.8 (877.9)	N. R.
Yoke			647.0 (750.3)	N.R.
Spit .	1067.7 (783.3)		967.1 (430.2)	N. R.
Cane	1149.5 (701.5)		922.1 (475.0)	Green gable, boat house.
Stone	1416.3 (434.7)		1008.4 (387.9)	N. R.
Pan	1665.8 (185.2)		1178.5 (218.8)	W. gablered roof.
Pank	1745.8 (105.2)		1181.2 (216.1)	NW gable small house.
Coup	1830.0 (21.0)		1228.3 (169.0)	N. R.
Tug	1811.3 (39.7)		100.5 (1296.8)	N. R.
Tree	17 4 5.2 (105.8)		381.2 (1016.1)	N. R.
But	1819.6 (31.4)	`	610.1 (787.2)	N. R.

NAME	LATITUDE	LONGITUDE	DESCRIPTION
East :	side o 'meters	o * meters	
Hen	41-14 15.8 (1835.2)		
Fee	207.6 (1643.4		
Bird	159.2 (1691.8		
West :	side		,
Buff	41-10 (158.4)) 73-57 54. (1344.	
White	41-11 318.5 (1532.4		
Set	592.7 (1258.2	and the second s	
Rain	743.3 (1107.6		
Brik	741.2 (110 9. 7		
House	659.6 (1191.3		
Sil ·	884.5 (966.4		
Shed	912.8 (938.1		6 North gable, shed. x
Tall	990.5 (860.4	_	3)
Green	1169.0 (681.9		.8)
Jar	1333.5 (517.4		.5)
Hot	1440.9 (410.0		
Ver	1591.4 (259.5		

NAME	LATITUDE	LONGITUDE	DESCRIPTION
West side	o ' meters	o ' meters	
Up	41-11 1622.6 (228.3)	73-57 821.2 (576.8)	Tall black stack.
Man	1839.5 (11.4)	694.0 (70 4. 0)	N. R.
Volt	41-12 206.7 (1644.2)	647.7 (750.3)	N. R.
Amp	315.7 (1535.2)	784.2 (613.8)	Brick stack. Just what Work which
Flit	384.7 (1466.2)	630.7 (767.3)	N. R.
Wife	593.4 (1257.5)	673.4 (724.6)	N. R.
Egg	608.3 (1242.6)	1098.8 (299.2)	S. gable shed.
Toby	862.5 (988.4)	1162.3 (235.7)	Red water tank.
Milk	1136.7 (714.2)	1178.3 (219.4)	N. R.
Ash	1207.4 (643.5)	1205.5 (192.2)	Gas tank. 5/
Dust	1361.5 (489.4)	1293.3 (104.4)	South brick stack
Coal	1430.0 (420.9)	1289.9 (107.8)	Center brick stack.
Spot	1590.2 (260.7)	1281.4 (116.3)	North brick stack.
Whim	1786.9 (64.0)	1178.2 (219.5)	N. R.
Stag	1673.2 (177.7)	73-58 (223.3	N. R.
Buck	1638.2 (212.7)	436.0	N. R.
Poke	41-13 36.3 (1814.7)	73-57 1266.0 (131.7)	Chimney on house near beach.
Tank	187.0 (1661.0)	1254.8 (142.9)	Black gas tank.

name	LATITUDE	LONGITUDE	DESCRIPTION
West side	o • meters	o 'meters	•
Kiln	41-13 353.5 (1497.5)	73-57 1321.8 (75.9)	Brick chimney.
Wave	446.7 (1404.3)	1191.5 (206.2)	N. R.
Dark	465.0 (1386.0)	1251.1 (146.6)	Gable, brown house.
Bim	551.8 (1299.2)	1275.9 (121.8)	Chimney, gas station.
Hoot	632.7 (1218.3)	1243.0 (154.7)	Center of three windows.
Dot	707.2 (1143.8)	1216.8 (180.9)	Yellow gable.
Соч	889.7 (961.3)	1332.8 (64.9)	Brick stack. 0
Stem	89.7 (1761.3)	73-58 597.7 (800.0)	N. R.
Heat .	103.7	713.4 (684.3)	Brick stack. W
Sid	i 138.3 (1712.7)	157.4 (1240.3)	N. R.
Bush	310.0 (1541.0)	435.6 (962.1)	N. R.
Fred	402.5	504.9 (892.8)	N. R.
Jaiļ	570.3	700.3 (697.4)	N. R.
Song	756.7 (1094.3)	315.7 (1082.0)	N. R.
Creek	819.7 (1031.3)	568.2 (829.5)	N. R.
Wash	1071.5 (779.5)	628.8	N. R.
Ham	1067.6 (783.4)	420.8 (976.7)	Brick stack.
Pile	1161.7 (689.3)	517.5 (880.2)	N. R.

REVIEW OF TOPOGRAPHIC SURVEY No. 4702

Title (Par. 56) Broton to Grassy Pt. Hudson River, New York

Chief of Party Ca. Egner Surveyed by J. C. Bull Inked by J. C. Bull

Ship Natoma Instructions dated May 25, 1932 Surveyed in July Cat. 1932

- 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.)
- 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.) More submitted
- 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.)

The bridge near Grancy Pt. is not described.

10. The span, draw and clearance of bridges are shown. (Par. 16c.)

- 11. -Locations and elevations of summits are given. (Par. 19, 51.)
- 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. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) Jist'd in Desc. Rep.
- 16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) filed as letter 86/1933
- 17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.)
- 18. The geographic datum of the sheet is Morth American and the reference station is correctly noted. (Par. 34.)
- 19. Junctions with contemporary surveys are adequate. Details at Topo, sig bap were omitted on this sheet.
- 20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.)
- 21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 29, 40, 41, 42, 45, 46, 47, 48, 49, 50.)
- 22. No additional surveying is recommended.
- 23. The Chief of Party inspected and approved the sheet and the descriptive report.after review by

24. Remarks: Water signals are married and described on the Hydrichet

Reviewed in office by R.J. Christman, Jan. 5, 1934_

Examined and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Ghief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

T-4702

LANDMARKS FOR CHARTS

1			Noz	folk. Viz	ginia.		
			_	Dèce	mber 6		
DIRECTOR, U. S. COAST AND GEO	DETIC SUI	RVEY:					•
The following determined description given below, and sh	objects an nould be c	re prominen harted.	t, can be		_		
				u,	A. Eg	ner, H. 8	Chief of Pa
		F	POSITION				
DESCRIPTION	LAT	ITUDE	LON	GITUDE		METHOD OF DETER- MINATION	CHARTS AFFECTE
	, o I	D. M. METERS	o , i.	D. P. METERS	DATUM	MINATION	
A BOAT 190%		426.4		685.9			<u> </u>
lag pole, yacht club	41-11	(1424.7)	73-57	(712.5)	N.A.		282
O House Center gable of large							
white house, hill side.	41-11	659.6 (1191.3)	73-57	1105.5	ij		282
ray church spire,			. •				
Averstrav A Grey 1932	41-11	1755.7 (95.4)	73-58	416.8 (981.4)	1,		282
Sharp black church spire							
Haverstraw Aspect 1991.	41-12	74.0	73-58	90.6 (1307.3)	ų		282
rassy Point church							
spire	41-13	886.6 (964.4)	73-58	116.4 (1281.2)	\1		28~ /
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A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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JAN 24 1933

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

Field No. D

REGISTER NO. 4702

State New York
General locality Hudson River Croton on Hudson
Locality EXXXXXXXXXX to Grassy Point
Scale 1/10:00 Date of survey July - Oct. , 1932
Vessel M. V. NATONA
Chief of party C. A. Egner
Surveyed by John C. Bull
Inked by John C. Bull
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated May 25 , 19 32
Remarks:

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

F. M. albert

Oct. 1934