

4707

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: Maryland

DESCRIPTIVE REPORT  
 Topographic } Sheet No. "D" 4707  
 Hydrographic }

LOCALITY  
Wicomico River (Central Portion)

Project No. 88

19 32

CHIEF OF PARTY  
E. H. Bernstein, H. & G. Engr.

4707

## DESCRIPTIVE REPORT

(To Accompany Topographic Sheet D

Wicomico River

Instructions dated Aug. 17, 1931.

### GENERAL DESCRIPTIONS

The river, within the limits of the sheet is bordered for the most part by woodland with some scattered farms and marsh land. The bluffs shown along the north shore are about ten feet in height. About a mile from the lower limit of the sheet is Upper Ferry; a ferry operated by hand on a cable. From upper ferry on there is a distinct low water line. The area between high and low water lines increases toward the upper limits of the sheet. The area shown by the mud symbol is black mud and in the summer time is covered by a heavy growth of lilies and grass. The lilies are along the low water line and give way to grass further inland near the high water line.

### LAND MARKS

The only land marks of value to navigation in the area covered by the sheet are as listed in the accompanying form.

### CONTROL

The control was based upon a scheme of second order triangulation extending from a base on the western shore of Chesapeake Bay between stations, Point No Point and Calvert. The only main scheme station used on the sheet was station Siloam; the others were located along the river with third order accuracy.


### SURVEYING METHODS

Plane table traverse was used over the entire sheet. Traverse No. 1 was run from station Marsh to station Ferry with satisfactory closing error and field adjustment was made. Traverse No. 2 was run from station Ferry to western limit of sheet and tied into point common also to sheet C. Closure on this point was satisfactory and field adjustment was made. Traverse No. 3 was run from station Marsh to eastern limit of sheet. Topographic signal "Cur" was left as a finishing point to be common also to traverse on sheet E.. Later traverse was run to this point from triangulation station; closure was found to be satisfactory and field adjustment was made. Traverse No. 4 was run from station Marsh inland along farm road and there eastward along macadam road leading to Salisbury to end of the sheet. There was no control at end of sheet, but frequent cuts to natural objects along the traverse indicated that the traverse was reasonably accurate. *This traverse was only 1 1/2 miles long. (C.H.B.)*

CHARACTER of MARSHES

At the lower end of the sheet the marshes are not ordinarily covered by high water. They are covered by marsh grass about six or seven feet high during the summer and are drained by numerous small creeks that wind about in all directions. Many of these creeks are dry at low water and the bottoms are full of very soft mud. The majority of these are not in evidence from the river, being hidden from view by the thick covering of marsh grass. At the middle and upper portions of the sheet the marsh gives way to soft black mud which is covered at ordinary high water and during the summer is covered by a heavy growth of lilies and grass.

Respectfully submitted



C. F. Chenworth  
Aid, U. S. C. & G. S.

Approved:



E. H. Bernstein  
H. & G. Engineer  
Chief of Party



## REVIEW OF TOPOGRAPHIC SURVEY No. 4707

Title (Par. 56) *Central portion of Wicomico River, Chesapeake Bay, Maryland*  
 Chief of Party *E. H. Bernstein* Surveyed by *G. F. Chenworth* linked by *G. F. Chenworth*  
 Ship *Mikawe* Instructions dated *Aug. 17, 1931* Surveyed in *Aug. 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-forlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)  
*all low land.*
5. The delineation of -contours-forlines- is satisfactory. (Par. 49, 50.) *No contours 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*
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, 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.) ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *Filed with letter No 117/1933, No duplicate in Desc. Rep.* ✓
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. ✓
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, 39, 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: *Road to Salisbury stops at edge of sheet without check as this road is not continued on #4708.*

Reviewed in office by *R. J. Christman, Oct. 3<sup>rd</sup> 1933*

Examined and approved:

*L. O. Colbert*  
Chief, Section of Field Records

*Frank S. Borden*  
Chief, Section of Field Work

*W. P. Rasmussen*  
Chief, Division of Charts

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

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4707

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.

Field No. D

REGISTER NO. 4707

State Maryland

General locality Chesapeake Bay

Locality Central Portion of Wicomico River

Scale 1 : 5,000 Date of survey August, 1932, 192

Vessel

Chief of Party E. H. Bernstein

Surveyed by C. F. Chenworth, Aid

Inked by C. F. Chenworth

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated Aug., 17, 1931, 192

Remarks:

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

# LANDMARKS FOR CHARTS

Annapolis, Maryland.

September 20, 1932

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

E. H. Bernstein  
Chief of Party.

DESCRIPTION	POSITION						METHOD OF DETERMINATION	CHARTS AFFECTED	
	LATITUDE			LONGITUDE					DATUM
	°	'	D. M. METERS	°	'	D. P. METERS			
Stack, Greenhouse	38	20	1265.1	75	39	814.7	N. A.	Triang.	
windmill	38	20	586.5	75	39	144.5	N. A.	Planetable	

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, flagstuffs and like objects are not sufficiently permanent to chart.

U. S. GOVERNMENT PRINTING OFFICE: 1921