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U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1923

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

State: Maryland

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. B 4705

LOCALITY

Wicomico River

Mt. Vernon to Wicomico Creek & Vicinity

Project No. 88

19 32

CHIEF OF PARTY

E. H. Bernstein H. & G. Engr.

DESCRIPTIVE REPORT

(To Accompany Topographic Sheet B.

Wicomico River

Instructions dated Aug. 17, 1931.

GENERAL DESCRIPTIONS

The general appearance of the shore on this sheet is marshy with patches of pine woods at varying distances and solid pine woods some distance back. The marsh land is broken somewhat by small patches of firm, grassy or cultivated ground usually around houses. The town of White Haven is located about 1.3 miles upstream from the edge of the sheet, and about 2 miles further Wicomico Creek makes off to the right. Above the creek the topography is not so marshy, giving way more to cultivated ground and woods and bushes lying fairly close to the water's edge. At the extreme upstream edge of the sheet a ten foot bank, covered with pine trees, borders the water, on the left, from which extends cultivated fields. The roads shown all run through good ground which is either wooded or cultivated.

LANDMARKS

The only landmarks 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 stations used on this sheet were station Collins and station Clara. The others were stations located along the river with third order accuracy, with exception of station Walnut and the 1907 position of this station was used.

SURVEYING METHODS

Planetable traverse was used over the entire sheet with the exception of a compass traverse used in running very crooked road through woods, starting from station Church. Traverse No. 1 was run from Station Haven to Station White Haven Church with no closing error. Traverse No. 2 was run from Station Walnut to Station Church with satisfactory closure and field adjustment was made. Traverse No. 3 was run from Station Haven to Station Collins. Closure was satisfactory and field adjustment was made. Traverse No. 4 was from Station Church to Station Collins. Closure was satisfactory and field adjustment was made. From Station Collins traverse No. 5 was run along Wicomico Creek, which was checked by frequent cuts on Station

Collins.* Traverse No. 6 extended from White Haven Church out the road leading north to a junction with the road leading west. The traverse was carried westward along the road to Station Clara. The closing error here was quite large, being about fifteen metres. This was most likely caused by loss of azimuth on short set-ups near White Haven. These short set-ups in carrying traverse forward were necessary, there being no control points in sight after leaving Station White Haven Church. The traverse was deemed unimportant enough to investigate further and was adjusted by swinging the whole traverse between the two triangulation stations. From the junction of the road traverse No. 7 was extended northward from adjusted point on other traverse. There was no control at end of this traverse but it was thought that results were sufficiently accurate for the importance of the area covered.

CHARACTER of MARSHES

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 them are not in evidence from the river, being hidden from view by the thick covering of marsh grass.

(This traverse was only 3/4 mile long. A theodolite cut at O Tank checks perfectly. This control is adequate for this short distance. E.H.B.) (Chimney of house 75 meters northeast of O Pipe was also cut at by theodolite. This cut checks perfectly. E.H.B.)*

Respectfully submitted

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

Approved:

C. H. Bernstein

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

REVIEW OF TOPOGRAPHIC SURVEY No. 4705

Title (Par. 56) *Mt. Vernon to Miconico Creek & vicinity, Miconico River, Maryland*
 Chief of Party *E. H. Bernstein* Surveyed by *C. F. Chewworth* Inked by *C. F. Chewworth*
 Ship *Mikawa* Instructions dated *Aug. 17, 1931* Surveyed in *June - July 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.) *None on sheet*
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.) *None shown*
- ~~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 IMs 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 187/1933, No duplicate for Descriptive Report.*
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~~

The traverses along the two interior roads should have been continued to a connection and the loop adjusted for use in future air photo compilation.

24. Remarks: *There is a lack of local Δ control for shoreline.*

Reviewed in office by *R. J. Christman Oct. 2nd, 1933*

Examined and approved:

L. O. Polhut.
Chief, Section of Field Records

G. M. Papenbaum
Chief, Division of Charts

Instructions did not call for and did not contemplate long traverses along roads nor large amount of details topographic base given
Chief, Section of Field Work *Francis Borden*

Stude
Chief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4705

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. B

REGISTER NO. **4705**

State Maryland

General locality Wicomico River

Locality Mt. Vernon to Wicomico Creek & Vicinity

Scale 1 : 5,000 Date of survey June, July, 1932

Vessel _____

Chief of Party E. H. Bernstein

Surveyed by C. F. Chenworth

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: _____

