

4815

Form 504  
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY  
R.S. Patton, Director

U. S. COAST & GEODETIC SURVEY  
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APR 4 1934

State South Carolina

Acc. No.

DESCRIPTIVE REPORT

Topographic  
~~Hydrographic~~

Sheet No. U 4815

LOCALITY

Charleston

West Branch of Cooper River.

(Vicinity North of S.A.L.R.R. Bridge)

1934

CHIEF OF PARTY

B.H. Rigg

4815

APR 2 1934

Acc. No. \_\_\_\_\_

## DESCRIPTIVE REPORT TO ACCOMPANY SHEET U

DATE OF INSTRUCTIONS, OCT. 10, 1933

LIMITS OF SHEET

The topography includes the West Branch of the Cooper River from the S.A.L.Ry. Bridge N. lat.  $32^{\circ} 05' 30''$ , W. long.  $79^{\circ} 56' 20''$  to the upper limit of Chart 680, N. lat.  $33^{\circ} 06' 20''$ , W. long.  $79^{\circ} 57' 30''$ . Two additional triangulation stations for orientation purposes were plotted to the S. & E., making the S.E. limit of the sheet N. lat.  $33^{\circ} 04' 30''$ , W. long.  $79^{\circ} 56' 00''$ .

DESCRIPTION OF TERRITORY

The River is bordered in this locality by plantations and old rice fields which are now used as duck preserves. The rice fields are bordered on the river side by small banks or dikes which are usually about 2' above H.W. and are used as footpaths. The inner boundary of the rice fields is high ground, covered by oak and pine trees. There is a steep bank ten to fifteen feet high covered with trees and extending from the Bluff to Pimlico plantation. The old rice fields are below H.W. level and can be flooded or drained by gates in the rice field banks. This regulates the amount of fresh marsh grass in the fields.

LANDMARKS

The most prominent objects are the R.R. bridge with its tall telegraph poles carrying wires across the river, and the R.R. semaphore signals. There are also two boat houses prominent and in good condition, and an old red brick chimney 42' high which is prominent.

CHARACTER OF CONTROL USED

Control was from triangulation, executed in 1928 and 1932.

DESCRIPTION OF SURVEYING METHOD USED

Work was started by setting up on Sta. Bridge, orienting on Rice and checking on Sims and Bridge Ecc. All signals for traverse and hydrographic stations had been built beforehand. All traverse stations could be seen from Sta. Bridge. These stations were cut in and orientation lines drawn. All stations occupied thereafter were oriented on Bridge. Signals Boy and Rat were rodded in from Bridge and then occupied and checked, resectioning on Bridge Ecc. A combination of graphic triangulation and traverse was then run to the upper limits of the sheet. The locations obtained by graphic triangulation checked the traverse distances, and it was not felt necessary to close the traverse back on Bridge. Necessary stations were then reoccupied to rod in the detail. Two additional setups were made by three point fixes to locate the high ground and tree line on the East.

INCOMPLETE WORK

Several houses and barns at both The Bluff and Pimlico Plantations could not be rodded in from the stations occupied as they were obscured by trees along the river bank from most directions. It was decided that they were not important enough to justify the time and expense involved in locating them.

LIST OF NEW NAMES

There are two plantations on the sheet, The Bluff and

Pimlico, which have been so named for a number of years.

The names have no connection with the present owners.

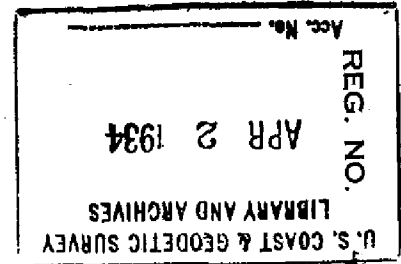
Respectfully submitted,

*W. N. Martin*  
W. N. Martin,  
Deck Officer

Forwarded by: *Benjamin A. Rigg*  
Chief of Party.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET



815

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. U

REGISTER NO. **4815**

State South Carolina

General locality West Branch of Cooper River

Locality North of S.A.L. Railroad Bridge

Scale 1-5000 Date of survey February, 19 34

Vessel Shore Party No. 19

Chief of party Benjamin H. Rigg

Surveyed by W. N. Martin

Inked by W. N. Martin

Heights in feet above -- to ground to tops of trees

Contour, Approximate contour, Form line interval -- feet

Instructions dated October 10, 19 33

Remarks: \_\_\_\_\_

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

APR 2 1934  
T-4815

LANDMARKS FOR CHARTS

Charleston, S. C.

Acc. No. \_\_\_\_\_

March 19, 1934

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.

*Benjamin D. Steg*  
Chief of Party.

DESCRIPTION	POSITION						METHOD OF DETERMINATION	CHARTS AFFECTED	
	LATITUDE			LONGITUDE					DATUM
	°	'	D. M. METERS	°	'	D. P. METERS			
S. E. Gable Pimlico Boat House	33	05	1461.2	79	57	305.3	N.A. 1927	1934 Planetable 680	
Brick Chv. 43' high	33	05	1811.6	79	57	452.0	"	"	
N. Gable Bluff Bt. House	33	05	1131.3	79	56	1145.7	"	"	
S. W. Semaphore	33	05	1015.6	79	56	936.9	"	"	

A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, 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 an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship, provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaves and like objects are not sufficiently permanent to chart.

## REVIEW OF TOPOGRAPHIC SURVEY No. 4815

Title (Par. 56) *North of S.A.L. R.R. Bridge, Cooper River, S. Carolina*Chief of Party *B.H. Rigg* Surveyed by *W.N. Martin* Inked by *W.N. Martin*Ship — Instructions dated *Oct. 10, 1933* Surveyed in *February 1934*

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.)~~
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.) *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.) *No previous surveys or charts*
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 IMs and DPs, 68.) *3 Cards Submitted*
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.) ✓ *Meridian was in red instead of black*
18. The geographic datum of the sheet is *North American 1927 (Adjusted)* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. *The East bank of the River at the S.A.L.R.R. Bridge appears to be made out in a westerly direction, about 8 meters, narrowing the width that much at this point. This should be adjusted in charting. There is this difference in making a junction with T4435*
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~~ *Forwarded but not marked approved by the Chief of Party*
24. Remarks:

Reviewed in office by

*Chas. R. Bush* June 8, 1936

Examined and approved:

*E. H. Green*  
Chief, Section of Field Records

*L. O. Polbut*  
Chief, Division of Charts

*Fred. R. Peacock*  
Chief, Section of Field Work

*Stude*  
Chief, Division of Hyd. and Top.