

4436

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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
E. Lester Jones, Director

C. & G. SURVEY
L. & A.
JUL 8 1928
Acc. No.

State: South Carolina

DESCRIPTIVE REPORT

Topographic } Sheet No. E 4436
~~Hydrographic~~

LOCALITY

Cooper River East Branch

Vicinity of Charleston

19 28

CHIEF OF PARTY

R. F. A. Studds

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET "E"

December, 1928, January, 1929. Cooper River, Vicinity of Charleston, S.C.

Launch ELSIE.

R.F.A. Studds, in charge.

Instructions dated December 17, 1927, June 20, 1928.

INTRODUCTION:

This is the third of three topographic sheets, on a scale of 1:10,000, covering a survey of the Cooper River. The sheets begin at a junction with original Topographic Sheet 2162 in Latitude 32° 55' and extend to the Seaboard Air Line Railroad bridge in the West Branch of Cooper River and to Quimby Creek in the East Branch of the Cooper River.

This sheet covers the East Branch of Cooper River from Higgins Landing to Quimby Creek, which marks the limit of the survey in that Branch, and includes the topographic features bordering the river. Sheet "D" joins this sheet on the western limit.

SURVEY METHODS:

Control was furnished by a scheme of triangulation extended up the Cooper River from the line Field - Goose Creek. This scheme was carried up the East Branch of the Cooper River by a system of quadrilaterals and ended on station "Cherry" with a single triangle, all stations occupied. A number of small signals for the control of the hydrographic survey were cut in by theodolite and the cuts plotted directly on the topographic and hydrographic sheets. Several objects which could not be cut in by theodolite were located by planetable and are given in an accompanying list of planetable positions.

From station "Cherry", a planetable traverse was carried to the end of the sheet, in the vicinity of Quimby Creek, and a check line run back to the station. The error of closure of this traverse was 7 meters, half of which was distributed. Three permanently marked topographic stations, "Chapel", "Huger", and "Mill", were established along this planetable traverse. A number of small signals, unmarked, for the control of the hydrographic survey, were located.

Paragraph 6, Supplemental Instructions, 10-LE, dated June 20, 1928, suggested sketching in the shoreline from the hydrographic launch, between points located in the above manner. This did not prove practical,

however, except in creeks where a less detailed hydrographic survey was made, and so the entire shoreline of the Cooper River was surveyed.

Inasmuch as there are no adequate surveys of this area, it was deemed advisable to sketch in roughly the limits of tree and marsh line bordering the river. This was done with very little loss in time, by taking tangents and cuts from planetable setups along the river. At a few places, where it was thought necessary, some detail was run in.

French Quarter Creek was not deemed sufficiently important to warrant a planetable survey. Accordingly signals were located by sextant and the shoreline of the creek sketched in by the party aboard the hydrographic launch. Shoreline surveyed in such manner is shown on the smooth hydrographic sheet only, and is designated by a pencil note.

COMPARISON WITH PREVIOUS SURVEYS:

A survey of a portion of the area covered by this sheet was made by the Geological Survey in 1919 and is published on the Advance Sheet, subject to change, of Cordesville Quadrangle. An attempt to verify the shoreline on this map, proved that it was of no value to the present survey, and consequently it was disregarded.

The small scale and absence of topographic features on the Geological Survey Advance Sheet render it practically worthless for charting the topographic features bordering the river. For this reason, the features were sketched in by the topographer. These latter can be supplemented in some instances by information shown on the Geological Survey map.

GENERAL DESCRIPTION AND NAMES:

The East Branch of the Cooper River winds thru marshland, that was, apparently, at one time, rice fields. Some of these fields have been converted into duck ponds and preserves and are diked off from the river.

FRENCH QUARTER CREEK is a rather large stream and extends some distance from the river.

WOODSIDE, LEGARE'S LODGE, and WHITE'S PLANTATION, are private ^{not to be used} estates used mostly for hunting. The buildings on the estates render ^{for location by Chief of Section} them conspicuous.

HIGGINS LANDING and BONNEAUS FERRY are not in use, and nothing shows from the river to identify them.

POMPEIN CHAPEL is a very old church and a comparatively well known landmark. Being close to the river, it is quite prominent.

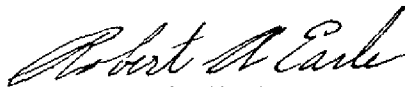
THE NORTH STATE LUMBER COMPANY have a log landing at the junction of Quimby Creek and the East Branch of Cooper River. The landing is very active as logs are continually being hauled from inland and loaded on barges which tie to the dock at the landing. These barges make about three round trips a week to Charleston.

All names shown on the sheet were obtained from sources believed to be reliable.

LANDMARKS FOR CHARTS:

Two old brick chimneys and a small tank furnish the only landmarks on this sheet. These are listed on the attached form, Landmarks for Charts. All of these objects are small and are comparatively poor landmarks. They are valuable because of the absence of any others.

The objects, e. g. houses, church, etc., bordering the river, are good landmarks, but no legend is necessary, it being sufficient that they be charted with the proper symbol.



Robert A. Earle,
Deck Officer,
USC&G Survey.

Forwarded:



R.F.A. Studds,
Chief of Party,
USC&G Survey.

*This survey complies with the instructions,
the junctions with adjoining sheets are adequate
and no further work is required.*

E. P. Ellis

April, 1930

TOPOGRAPHIC SHEET

"E"

STATEMENT OF CHIEF OF PARTY

This sheet has been inspected and is approved.

The purpose of the survey was to furnish information for charting the East Branch of the Cooper River. Consequently the survey was confined to the area bordering the river. . . Sufficient topographic features were sketched in to show the area on both sides of the river.

In the event additional topography is desired, some information can be obtained from the Geological Survey map, Cordesville Quadrangle, of which only the Advance Sheet has been published.



R.F.A. Studds,
Chief of Party,
USC&G Survey.

LIST OF PLANETABLE POSITIONS

to accompany

TOPOGRAPHIC SHEET "E"

Object	Latitude		D.M.	Longitude		D.P.	Remarks
	°	'	meters	°	'	meters	
Tank, Woodside	33	04	558 (1290)	79	53	341 (1215)	Top
Chimney	33	03	1474 (374)	79	52	1022 (534)	Center (located by theodolite cuts)
Chimney	33	04	1674 (174)	79	50	1240 (316)	Center

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Washington, D. C.

June 12, 1929.

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.

[Signature]
Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED		
	Latitude		Longitude		Datum				
	°	'	D. M. meters	°				'	D. P. Meters
Tank	33	04	658	79	53	341	N.A.	pl. table	No chart
Chimney	33	03	1474	79	52	1022	N.A.	th. cuts	No chart
Chimney	33	04	1674	79	50	1240	N.A.	pl. table	No chart

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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4436

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. E

REGISTER NO. **4436**

State SOUTH CAROLINA

General locality VICINITY OF CHARLESTON

Locality COOPER RIVER, East Branch to Quimby Creek

Scale 1:10,000 Date of survey December, 1928; Jan. 1929

Vessel Launch ELSIE

Chief of Party R.F.A. Studds

Surveyed by Robert A. Earle

Inked by Robert A. Earle

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

Contour, Approximate contour, Form line interval -- feet

Instructions dated December 17, 1927, June 20, 1928.

Remarks: Sheet three of three sheets of the Cooper River.