# 8216

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Office No. T-8216

LOCALITY

State South Carolina

General locality Georgetown County

Locality Plantersville

1943.....

F.L. Gallen and

Lieut. Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE February 8, 1946

B-1870-1 (1)

T- 8216

Quadrangle (II): Plantersville

Project No. (II): C.S. 275

Field Office: Myrtle Beach, S. C. Chief of Party: F. L. Gallen

Compilation Office: Tampa, Florida Chief of Party: K. G. Crosby

Instructions dated (II III): 7/15/42

Copy filed in Descriptive Report No. T-

Completed survey received in office: guly 26, 1943

Reported to Nautical Chart Section: July 28, 1943

Reviewed: Oct. 12, 1943 Applied to chart No. Date:

Redrafting Completed: 9 aw. 14,1944

Registered: Dec 1945

Published: 1944

Compilation Scale: 1:20.000

Published Scale: 1: 20,000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M. S. L.

Reference Station (III): Planter, 1932

Lat.: 33° 35' 28.988" (893.1m) Long.: 79° 12' 13,773" (355.2m) Adjusted Unadjusted

State Plane Coordinates (VI) South Carolina South Zone

x = 2,546, 989.38 5 14 Z 644,293.66 0.1.

Military Grid Zone (VI) Zone B O.K.

#### PHOTOGRAPHS (III)

Number	<u>Date</u>	Time	<u>Scale</u>	Stage of Tide
8261 8262 8263	4/2/42		1:20,000	Inshore sheet

Tide from (III): No tide considered - this is an inshore sheet

Mean Range: Spring Range:

Camera: (Kind or source) U.S.C.& G.S. 9-Lens (Focal length 8½n)

Field Inspection by: A. L. Mitchell

Field Edit by: D. Flippo date: Avg. 1943

Date of Mean High-Water Line Location (III): \_\_\_\_\_

date: \_\_\_\_\_ Projection and Grids ruled by (III) Washington Office checked by: date: \_\_\_\_\_ Control plotted by: V. F. Simmons, Engr. Draftsman date: 2/1/43 date: 2/1/43 Control checked by: W. E. Snyder, Photo. Aid date: 2/16/43 Radial Plot by: Tampa Office Personnel " Re-run Date: 6/14/43 date: Mar.\*June,1943 Detailed by: Betty R. Finch, Jr. Engr. Draftsman Reviewed in compilation office by: A. L. Kidwell, Jr. Topodate: Engr. July, 1943 James H. S. Billmyer, Asst. Photo. Engr. Elevations on Field Edit Sheet date: Aug. 1943 checked by: D. Flippo V

#### STATISTICS (III)

Land Area (Sq. Statute Miles): 60.7

Shoreline (More than 200 meters to opposite shore): 3 Mi

Shoreline (Less than 200 meters to opposite shore):  $_{L9~{
m Mi}}$ 

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 45

Roman numberals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S. 275, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

# 1. PREPARATION OF BASE MAPS

Assembly into quadrangle base sheets by photographic means of previously produced planimetric maps of the area. These maps were compiled by this Bureau from aerial photographs taken in 1934 and were published in 1935 on the scale of 1:10,000. Lithographic prints of the quadrangle base sheets on cloth-mounted paper were furnished to the field parties and similar prints in red ink on celluloid sheets were furnished to the compilation office.

# FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs. The field parties were permitted to make field inspection notes either on the photographs or on the planimetric base sheet.

Contouring by planetable, directly on the photographs or on the planimetric base sheet at the option of the field party. The contouring for this quadrangle was done on the planetable base sheet and also the nine lens photographs taken in April 1942. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

# COMPILATION OF MANUSCRIPT

Revision of the planimetric base map from the new photographs and addition of contours and corrections obtained by the field parties. A Meradial plot was made for this work, using a red-line print as a base.

# FIELD EDIT

Comparison of a copy of the corrected manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc. Steps 2 and 4 were accomplished simultaneously.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

#### PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blueline" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

# FIELD INSPECTION REPORT QUADRANGLE T-8216 PROJECT CS-285 F. L. GALLEN, CHIEF OF PARTY

1. The Pee Dee River flows in a southerly direction through the eastern part of the Quadrangle. There are abandoned rice fields and swampy areas along the river. There are many creeks in this Quadrangle, all of which flow in an easterly direction into the Pee Dee River. The area is very flat and has extensive broomsage fields with scattered trees. After heavy rains most of the area retains water for several days. The area west of the Pee Dee River varies in elevation from a few feet above sealevel at the River to a height of about 26 feet. The larger portion of the area is between 18 and 22 feet in elevation.

All of the area west of State Highway No. 701 except a very small portion north of State Highway No. 707 is owned by the U. S. Army Air Corps and is used for aerial bombing and machine gun range.

The southern part of Bull Island lies in this Quadrangle. It is a low swampy area covered with heavy cypress and gum and dense brush.

State Highway Route No. 701 runs in a northeasterly and south-westerly direction through the Quadrangle. The remainder of the roads are made of sand and clay and are poorly maintained.

Some farming is done along Highway No. 701 and in the vicinity of Plantersville but in general the Quadrangle is sparsely populated.

For a description of Sandy Island see the report for Quadrangle 8215.

- 2. See the report for Quadrangle 8221.
- 3. The lighter smooth tones on the photographs were usually found to be broomsage fields. For additional information see the report for quadrangle 8226 and 8238.
- 4. See the report for Quadrangle 8221.
- 5. See the report for Quadrangle 8221.
- 6. See the report for Quadrangle 8238.
- 7. The mean high water line has been indicated on the photographs where it could be determined by this party.
- 8. The low water line could not be determined by this party.
- 9. There are no wherves or shoreline structures in this quadrangle.
- 10. No offshore details were found in this Quadrangle.

- 11. There are no landmarks or aids to navigation found in this Quadrangle.
- 12. No hydrographic signals were established.
- 13. There are no landing fields or aeronautical aids in this quadrangle.
- 14. See the report for Quadrangle 8238.
- 15. The dimensions and load limits have been indicated on the photographs but they have not been classified.
- 16. See the report for Quadrangle 8238.
- 17. See the report for Quadrangle 8226.
- 18. Geographic Names is the subject of separate report for this Quadrangle.
- 19. The junctions to the west with Quadrangle 8217, to the north with quadrangle 8212 and to the east with quadrangle 8215 are all on overlapping photographs and should be satisfactory.

Some work was accomplished in the spring of 1942 along the western side of the Pee Dee River. A satisfactory junction could not be made on some of this work. The work on the photographs was extended to a point where a satisfactory junction was made. The remainder of the work on the compilation was checked and found to be within the accuracy required. All changes on the photographs have been checked in the field by a second party and should be accepted as correct.

Discrepancies were found in the junctions to the south with Quadrangle 8220. The work was extended in quadrangle 8220 to a point where a satisfactory junction was made. The contours have been shown correctly on the photographs. For additional information see the report for Quadrangle 8221.

All field work has been completed including a field edit of those parts of the area covered by the planimetric maps except as noted in the above descriptive report. Field edit of the entire Quadrangle should be accomplished after these maps have been corrected from the data submitted on the field inspection photographs.

Respectfully submitted, aller L. Mitchell

Allen L. Mitchell, Senior Photogrammetric Aid.

Approved and forwarded:

J. Jallen:
F. L. Gallen, Chief of Party.

## ROAD CLASSIFICATION FOR MAPS OF ALL SCALES

CLASS	LABEL	STRUCTURE	LOADING
1	Dependable hard-surface heavy duty road.	Concrete, asphaltic concrete bituminus Macadam, H-15 type structures.	Will bear heaviest loads with little maintenance.
. 2	Secondary, hard-surface all-weather road.	Surface-treated, oiled gravel, waterbound Macadam, structures generally lighter than H-15 but sturdy.	Will bear fairly heavy military loads in all weather if maintained.
3	Loose-surface graded, dry-weather road.	Gravel or stone surface, stable material, selected sand-clay, etc. Drained and graded.	Will bear light military loads in good weather.
4	Unimproved road.	Graded and drained earth, with very light structure.	Generally unsuitable for military loads.
4U	Truck road	Woods roads, farm roads, etc. over which a standard gage vehicle can be driven.	
5	Trail	(Horse trails, foot trails, etc.)	

Roads with more than two (2) lanes are indicated by note along road, e. g. 3 LANE. Change in lanes shown by tick at point of change. Main roads have two lanes unless otherwise marked.

Private roads are designated by the letter P after the road classification.

#### WOODS-CONCEALMENT-CLASSIFICATION=

Class-A:—Trees-over-10'-high-and-thick-enough-to-hide-troops.

 ${\tt Class=B+---Brush=thick=enough=to-hide=troops=but=dense=enough=to-impede=progress.}$ 

Class=C:-Scattered=brush=thick=enough=to-hide-troops-but-not-thick-enough-to-impede-progress.

#### WOODS AND BRUSH

TYPE	
D	Deciduous
E	Evergreen
Com	Company

#### CONCEALMENT

- Z Trees 10 feet or more in height, and thick enough when in foliage to conceal troop and vehicles.
- Y Drush and undergrowth thick enough to impede foot troops and conceel troops lying down.
- X Scattered trees not thick enough to conceal troopso
- W Scattered brush not thick enough to conceal troops.

#### PHYSICAL PEATINES

- HG Higher ground usually appears in light tone on photograph; either wooded or cultivated area; may be some trees or brush. (usually not symbolished on photographs.
- LG Low areas generally appears dark on photograph; becomes swampy during rainy season; of ten covered with dense growth of brush.
- SW Swamp ground covered with water or boggy most of the time; lower in elevation than LO; wooded and/ or brush.
- M Salt marshes

NOTE: The above areas are not outlined but sufficient notes are made on each photograph so that the variation in tones can be correctly interpretted in the office.

# PROJECT CS-285

SHORE LINE BUILDINGS HWL - Mean high water; fast land - Barn LWL - Low waterline o Building Bldg LL - Marsh shore line Bo Ho - Boat House M - Marsh - Church (glvs name) Ch MW - Marsh grass in water Ct Ho - Court House (give name) Dk - Dock - Post Office (give mams) P.O Pler - Pler Sch - School (give name) Se W - Sea Wall Hos - Hospital (give name) RR Sta - Ratiroad Station Bkbd - Bulkhead Jet - Jetty Sto - Country store or Dol - Dolphin gas station Pile - Pile P Sta - Power Station S - Sand Mud - Mud BOUNDARIES Rk - Rock or rocky - Boundary Sty - Stony - Fire Break FB Come - Comerete - Hedge HDG Wo - Wood - Park Park Blf - Bluff - Cometery Cem Dune - Dune Co - County STREAMS AND PONDS . Largest di tehes only - Fire Tower (give mame) DX - Small ditch (delete) - Transmission Tower Jah IS - Intermittent stream - Radio Tower or mast RT FD - Probable drainage Air Bn - Airway Beacon Or - Creek - Non-lighted sid to Ca - Canal nevigation Cv - Culvert Lt - Lighted sid to Lev - Leves na vigation Dem - Dam - Low tank P - Pond Tk elev - Tank elevated on IP - Intermittent pond structure Stk - Stack VEGETATION Gr - Grass GIRLERAL Sw - Swamp - delete; except where it Cy Se- Cypress Swamp pertains to elevations.

Use only the abbrevo listed on this page. Do not make

up abbreviations.

## BRIDGE AND TUNNEL CLASSIFICATION

First Symbol	One Lene	Unlimited
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7	50 tons	25 tons
ő	25 tons	18 tens
D	18 tous 10 tous	13 tone
	6 tons	7 tons
1	Light vehicles on	

# Second Symbol

Vertical Clearance	A	- over	14	feet	
	B	~ 0791	13	feet	
	0	- CVer	12	feet	
	D	- over	11	feet	ete.

# Third Symbol

Borizontal	Clearence	A =	COP	18	feet	
		Bo	over	17	feet	
		0 -	over	18	feet	
		D -	over	15	feet	etco

Fourth Symbol - Year of Classification.

#### COMPILATION REPORT TO ACCOMPANY SHEET NO T-8216

#### CONTROL

All of the control stations recovered were used in the radial plot with the exception of stations REIVE, 1934 and EX 1935, which could not be held to consistently. This was due to the fact that the stations could not be picked accurately on all of the photographs on account of the absence of good photographic ties.

#### RADIAL PLOT

The main radial plot is discussed in the compilation report for sheet T-8222.

#### DETAILING

The photographs covering this area were satisfactory for detailing and no unusual difficulty was experienced in their delineation. The field inspection was satisfactory except in a few cases where streams and vegetation were shown differently on different photographs. In these cases the compiler usedhis own judgement as to which was correct.

"Pole Castle Branch" was shown on the geographic name sheet that could not be found on any of the photographs. The name is shown on the compilation in approximately the same position as it occured on the geographic name sheet. This sheet was partially compiled previously and the old compilation was printed in red on the surgey sheet. Since the old compilation was made, considerable change has taken place. All changes have been made in black ink on the red line portion of the sheet.

See the field inspection report for the discrepancies in the junction with T-8220 on the south. This junction should be checked by the Washington Office and the plate for T-8220 corrected.

#### SUPPLEMENTAL DATA

A blue line print on paper showing some contours and a few notes by the field inspection party is the only map used to supplement the photographs in the compilation.

#### COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

No published topographic quadrangles were available comparison.

#### COMPARISON WITH NAUTICAL CHARTS

T-8216 was compared with U. S. C. & G. S. Chart No. 836 of the Intra-Coastal Waterway, published in August 1942 on a scale of 1:40,000. No discrepancies were noted except in the delineation of the marsh areas which is of minor importance.

Respectfully submitted,

But, R. Junh Betty R. Finch, Junior Engineering Draftsman

Forwarded by:

Kenneth Crosby,

Chief of Party...

#### FIELD EDIT REPORT QUADRANGLE T-8216 Project CS-275

46. The field edit was done by visual inspection, making all additions and deletions on the map manuscript, and transferring all the detail to a smooth copy while inking.

The following color scheme was used:

FEATURES	COLORS
Additions, bench marks, wye level elevations and crosses	Re đ
Deletions	Green
Drainage features	Blue
Contours	Brown
Civil Boundaries	Violet

- 47. The position and amount of detail on this map manuscript is believed to be complete and adequate.
- 48. A Horizontal accuracy test was run in Quadrangle No. T-8212

  Vertical tests are the subject of a special report for Project CS-275.

Respectfully submitted,

Donald G. Flippo
Engineering Aid

Approved and forwarded

F. L. Gallen

No. 1

	Remarks.	Decisions
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U.S. Highway No. 701	~	2								5
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Thoroughfare Creek	-									10
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	Joe Bay	~						1 <			4
7.	Sandy Island	/				6					5
	Cooter Creek	1									6
	Pipe Down	(sm	all se	ttleme	nt)						7
	Broton Lake	~									8
	Ruinsville	~ (s	nall s	ettlem	ent)						9
	Ruinsville Creek	/ (V	ery li	ttle o	fito	n this	quadr	angle)	1	-	10
	Plantersville	~	2								11
	Gilliard	1	small	settle	ment)			32.5			12
•	Black Swamp	-									13
	Plantersville Road	-									14
	Cypress Creek Bridge	~									15
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	Pee Dee Road	-				Range	1				17
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	Bull Island	11	not Bu	ll Cre	ek Isla	and)					21
	Little Bull Creek	<b>L</b>									22
	Mosquito Creek	?									23
	Mishew Creek	?								•	24
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Or Judge of S. Wage of Rand McMally kilos P.O. Childe of Mark U.S. LIGHTLIST **GEOGRAPHIC NAMES** Hat Hat star Orloca wood Survey No. T-8216 3 Name on Survey G (small scattered settlement) Mt. Tabor 2 Yauhannah Creek 3 Yauhannah Creek Bridge text only of names report: presumably et Mt. Tabdr on Highway 701) Johnny Young Road (pertly on this quadrengle) 5 Cervers Bay 6 Come u o'sriined " ed app oven ! 9 LOH ECKON 11/10/1 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 M 234

#### RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

#### Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.

published quadrangle at 1:20,000 scale

Black and white cloth-mounted copy of the/map

manuscript. This copy is filed to preserve

original survey detail shown on the manuscript

at 1:20,000 scale which may not have been shown

on the published sheet. For political boundaries,

woodland, marsh,-and-rwamp-limits, refer to the

published quadrangle for the finally adopted

positions. outlines.

Descriptive Report.

Division

## Filed in the Photogrammetric Section -- Surveys Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing-Unit. Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Original celluloid manuscript.

Copies of specifications and all instructions to field parties and field offices.

### Filed in Reproduction Branch

Glass negatives of the color separation drawings.

#### Filed in the Library

Bpecial report on field work by Commander K. T. Adams, 1944.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

# Delivered to the Army Map Service in accordance with the contract

Film negatives and film positives of the color separation drawings.

All color separation drawings.

## Original celluloid manuscripted

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

#### DIVISION OF CHARTS

#### SURVEYS BRANCH

## REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8216

# PLANTERSVILLE QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

### Horizontal and Vertical Accuracy

The closest horizontal accuracy test was run in quadrangle T-8212.

The closest vertical accuracy test was run in quadrangle T-8216.

#### Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-5250	1:10,000	1934
T-5251	1:10,000	1934
T-5253	1:10,000	1934 1934
T-5254	1:10,000	1934

## Comparison with Nautical Charts Nos. 836

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

The details of T-8216 are complete and adequate for chart correction.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Only changes of a minor nature were necessary during the review of this map manuscript.

Reviewed Oct. 8,1943 By grhm H. Stewart under direction of D. H. Benson (per M. M.)

Inspected by B. G. Jones BJ. gares Dec. 17, 1945

Examined and approved:

Chief, Surveys Branch Division of Photogrammetry

Chief, Topography Section

Chief, Div. of Charte Nautical Chart Branch

Chief, Div. of Coastal Surveys