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U. S. COAST & GEODETIC SURVEY  
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U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES  
APR 1 1936  
App. No. \_\_\_\_\_

Form 504  
Rev. Dec. 1933  
DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } Sheet No. T-5555  
~~Hydrographic~~

State North Carolina

LOCALITY

~~North Carolina East Coast~~

Pungo River

Slade Creek

Photos taken <sup>1935</sup> Oct. 1934

CHIEF OF PARTY

S. B. Grenell

5555

Applied to chart No 832. Jan 21, 1937. R.J.  
Applied to chart correction 1231 April 14, 1937 HEM

DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

REG. NO.

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. ....

REGISTER NO. 5555

State.....North Carolina.....

General locality ~~North Carolina East Coast~~ *Pungo River*

Locality.....~~Pungo River~~ *Slade Creek*.....

Scale.....<sup>\*</sup> 1:10,000..... Date of ~~survey~~ <sup>photos</sup> 10-9-34, 19.....

~~Vessel~~ Air Photo Compilation Party No. 18

Reviewed & recommended for approval  
Chief of party.....Lieut. (j.g.) S. B. Grenell *S. B. Grenell*  
photos plotted by:

~~Surveyor~~.....F. B. Hickman.....

Inked by.....C. E. Helfrich.....

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

Contour, Approximate contour, Form line interval.....feet

Instructions dated.....Dec. 14, 1934....., 19.....

Remarks:.....Compilation of aerial photos Nos: M-78 115 to 133.....

*\* Blue print in scale 1:10 000*

--NOTES OF COMPILATION--

One copy of this form must accompany each chart from beginning to completion. The last draftsman, whose name appears on this form, is responsible for it and all personnell will endeavor to keep these forms up to date and correctly posted. This form is very important inasmuch as the final Descriptive Report of the chart compiled is based upon the information contained herein.

SHEET No. 5555

M-78 PHOTO NO. 115 to PHOTO NO. 133 M-78

BY	START	FINISH
ROUGH RADIAL PLOT <u>W. H. Bates</u>	<u>4-9-35</u>	<u>4-10-35</u>
SCALE FACTOR (1.00) <u>F. B. Hickman</u>	<u>4-10-35</u>	<u>"</u>
SCALE FACTOR CHECKED <u>S. B. Grenell</u>	<u>"</u>	<u>"</u>
PROJECTION <u>A. M. Gruber</u>	<u>"</u>	<u>"</u>
PROJECTION CHECKED <u>J. C. Tison, Jr.</u>	<u>"</u>	<u>"</u>
CONTROL PLOTTED <u>J. W. Griffeth, Jr.</u>	<u>4-11-35</u>	<u>4-11-35</u>
CONTROL CHECKED <u>John Tassapoulos</u>	<u>"</u>	<u>"</u>
TOPOGRAPHY TRANSFERRED _____	_____	_____
TOPOGRAPHY CHECKED _____	_____	_____
SMOOTH RADIAL LINE PLOT <u>F. B. Hickman</u>	<u>4-12-35</u>	<u>4-16-35</u>
RADIAL LINE PLOT CHECKED <u>S. B. Grenell</u>	_____	<u>"</u>
DETAIL INKED <u>C. E. Helfrich</u>	<u>4-18-35</u>	<u>6-9-35</u>
AREA DETAIL INKED <u>18.9</u>	Square Statute Miles	
LENGTH OF SHORE LINE OVER 200m. <u>18.3</u>	Statute Miles	
LENGTH OF SHORE LINE UNDER 200m. <u>24.6</u>	Statute Miles	
GENERAL LOCATION <u><del>North Carolina East Coast</del> Pungo River</u>		
LOCATION <u><del>Pungo River</del> Slade Creek.</u>		
DATUM STATION <u>Makleyville 1933</u>	LATITUDE <u>35°-27'-38".691 (1192.4M)</u>	
DATUM <u>N. A. 1927</u>	LONGITUDE <u>76°-32'-45".342 (1143.3M)</u>	

*(adjusted)*

Refer to pages 5 to 8a, report for compilation T 5550 for a discussion of camera errors in this area and the need for more than the usual amount of ground control.

On this compilation control in addition to the triangulation has been furnished by a traverse along the road from  $\Delta$  Meckleyville eastward to lat.  $35^{\circ} 26.6'$ , long.  $76^{\circ} 29.2'$ , thence southeast to lat.  $35^{\circ} 25.5'$ , long.  $76^{\circ} 28.7'$ , thence west and south to triangulation station Fortescue just off the south edge of the sheet at lat.  $^{\circ}$ , long.  $^{\circ}$ .

The control is adequate to support the estimate of accuracy given at top of page 2 following.

The field party's estimate gives a somewhat larger value for the probable error of positions than is usual because of the trouble due to camera being out of adjustment.

*B.G. Jones*

REPORT OF COMPILATION:

## RADIAL LINE PLOT

The standard radial line plot method was used. Some difficulty was encountered because of irregularity of the scale of the prints. Most of the difficulty was encountered in the "C" prints and in some cases to get cuts it was necessary to orient the "C" prints independently. As the plot progressed these cuts were checked by cuts from "D" skews. *See opposite page*

The control on this compilation was good. All control held except in cases where prints were so distorted in scale that stations in opposite sides and on the ends of wing prints could not be held at same time.

Common points were held with the northern flight M-78 82 through 95.

The scale ~~factor~~ of this compilation and the adjoining compilations, T-5550, T-5551 on north and T-5556 on south were the same, 1:10,000.

## ADJUSTMENT OF PHOTOGRAPHS:

The photographs were without excessive tilt. In most cases radial points were well selected and spaced. Some interlacing was necessary to trace detail on extremities of "A" and "C" prints. Additional points were cut in to establish correctness of radial points at Lat. 35 - 28' and Long. 76 - 32-30".

## INTERPRETATION:

The photographs were clear except on extremities of wings. Detail in perspective made tracing difficult especially in cases such as tracing the plans of houses on "C" wing where there was little advantage for the stereoscope. The area on this compilation was extensively cultivated; with an intricate system of ditches. Rather than attempt to use accepted symbol for cultivation the draftsman thought it advisable to show the ditches with an accompanying note on overlay: "Cultivated fields". The stereoscope was used to determine H. W. L. when trees overhung water line.

## COMPARISONS WITH CONTEMPORARY SURVEYS:

Junctions were made on the north with compilation T-5551 and 5550, and on the south with T-5556. These junctions are complete and accurately matched. Topo sheets H and K were compared with the compilation. All cases of disagreement were made to agree. See descriptive report by Chief of Party. (T-6344 "H"). (T-6346 "K"). T-6343, T-6345 also cover portions of this compilation. See review at back for comparisons. *Ram.*

## COMPARISONS WITH OTHER SURVEYS:

This compilation was compared with C. & G. S. chart 1231 and photostatic copy of topo sheet #1273, dated 1872. Only one major difference was noted, neither C. & G. S. chart or topo sheet 1273 show the yacht basin 170 meters north of triangulation station MAKLEYVILLE. It is felt that a differences noted in the comparisons is due to natural changes over a period of years. Piling was spotted by out field party in area circled on photo ~~125 C~~, but was ~~not~~ <sup>barely</sup> visible on photos. *This is shown on the compilation. 125 C* *Ram.*

Slade Creek Highway Bridge - Fixed Span, channel width 6'; clearance, M.L.W., 2.6'; clearance H. W. 1.3'

ACCURACY AND COMPLETENESS:

This sheet was compiled with a probable error of less than 10 meters in well defined detail and 20 meters in less well defined detail.

PHOTOGRAPHS:

No.	to	No.	Time	Date	Stage of Tide.
M-78	115	133	10:20AM	10-9-34	wind tide only

NEW PLACE NAMES:

- W.E. Well established local name known throughout a large area.
- L.N. Local name, known in immediate area only.
- C. Charted
- O.S. Appears on old topo sheet.

NAME	LEGEND	REMARKS
Quilley Pt. ✓	C. - O.S.	
Wood Cr. ✓	L. N.	On old topo sheet as Eastman Cr., not known locally as Eastman Cr.
Neal Cr. ✓	L.N.	On old topo sheet as Tooley Cr., not known locally as Tooley Cr.
Davis Cr. ✓	W.E.	
Manley Pt. ✓	W.E.	
Slade Cr. ✓	C.-W.E.-O.S.	
Long Cr. ✓	W.E.	
Spellman Cr. ✓	W.E.	
Lamb Pt. ✓	L.N.	
Jarvis Cr. ✓	L.N.	
Sladesville (no P.O.)	C.	
Baptism Landing ✓	L.N.	
Hog Pen Pt. ✓	W.E.	
Speer Cr. ✓	L.N.	
Meckleyville (N.P.O.)		Site of old hotel - now destroyed
Church Cr. ✓	W.E.	
Seer Gut ✓	L.N.	
Parmalee Pt. ✓	L.N.	Spelling doubtful (Parmalee-family name)
Allison Cr. ✓	W.E.-O.S. ✓	
July Pt. ✓	W.E.	
Sandy Pt. ✓	W.E.-O.S.	
Foreman Cr. ✓	L.N.	Spelling doubtful
Great Gut ✓	L.N.	
Green Pt. ✓	W.E.	
Little Gut ✓	L.N.	
Asparagus Pt. ✓	W.E.	
Smokehouse Cr	W.E.	
Horse Poster Cr ✓	L. N.	
Horse Poster Pt. ✓	L.N.	
Big Snell Cr. ✓	W.E.	(Snell, family name)
Warner Cr. ✓	L.N.	(Warner, family name)
Bailey Shore ✓	L.N.	(Bailey, family name)
Little Snell Cr. ✓	L.N.	
Cox Cr. ✓	W.E.-O.S.	Located wrong on old topo sheet.
Seer Cr. ✓	L.N.	
Jeanette Cr. ✓	L.N.	Family name
Log Cr. ✓	W.E.-O.S.	
Old Field Cr. ✓	L.N.	
Ware Pt. ✓	L.N.	
Salt Pit Cr. ✓	L.N.	
Dixon Cr. ✓	W.E.	
Lupton <del>Cr.</del> Point ✓	W.E.	
Raffing Cr. ✓	L.N.	
Jones Cr. ✓	L.N.	



C. E. Helfrich, Draftsman

\* APPROVED FOR PHOTO COMPILATION ONLY

	Remarks	Decisions
1		
2		
3	ON T 1273 ON EASTMAN'S CR.	
4		
5	2	
6	ON T 1273 AS TOOLEY'S CR.	
7		
8	*	
9	*	
10	*	
11	△ Sta. is spelled MAKLEYVILLE.	9/25/41
12		
13	*	
14	*	
15		
16		
17		
18	*	
19	*	
20	*	
21		
22	*	
23	*	
24		
25	*	
26		
27		



GEOGRAPHIC NAMES

Survey No. T-5555

Name on Survey	On Chart No. 1231	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
	A	B	C	D	E	F	G	H	K	
<u>Quilley Point</u>	✓	1273								1
<u>Spellman Creek</u>				✓						2
<u>Wood Creek</u>				✓						3
<u>Manley Point</u>				✓						4
<u>Slade Creek</u>	✓	1273								5
<u>Neal Creek</u>				✓						6
<u>Davis Creek</u>		1273								7
<u>Lamb Point</u>										8
<u>Raffing Creek</u>										9
<u>Speer Creek</u>										10
<del>Manley</del> <u>Meckleyville</u>				✓						11
<u>Church Creek</u>				✓						12
<u>Seer Gut</u>										13
<u>Parmalee Point</u>										14
<u>Allison Creek</u>		1273								15
<u>July Point</u>				✓						16
<u>Sandy Point</u>		1273		✓						17
<u>Foreman Creek</u>										18
<u>Jones Creek</u>										19
<u>Jarvis Creek</u>										20
<u>Sladesville</u>	✓	1273								21
<u>Baptism Landing</u>										22
<u>Great Gut</u>										23
<u>Green Point</u>				✓						24
<u>Little Gut</u>										25
<u>Pungo River</u>		1231								26
<u>Asparagus Point</u>				✓						27

Names transferred to field notebook  
 O'Leary  
 8/19/26

Remarks

Decisions

1		
2	*	
3	*	
4		
5	*	
6	*	
7	*	
8	*	
9	*	
10		
11		
12		
13		
14	*	
15	*	
16		
17		
18		
19		
20	<i>There is still a third Long Creek on T 55 56.</i>	
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-5555

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
✓ Smokehouse Creek				✓							1
✓ Horse Poster Creek											2
✓ Horse Poster Point											3
✓ Big Snell Creek				✓							4
✓ Warner Creek											5
✓ Bailey Shore											6
✓ Cox Creek		1273									7
✓ Little Snell Creek											8
✓ Seer Creek											9
✓ Ware Point											10
✓ Fortescue Creek	✓										11
✓ Lupton Point				✓							12
✓ Dixon Creek											13
✓ Salt Pit Creek										*	14
✓ Old Field Creek										*	15
✓ Log Creek		1273		✓							16
Jeanette Creek		not approved due to duplication <sup>near by</sup> T 5556									17
Long Creek (1)		not approved due to duplication									18
✓ Hog Pen Point				✓							19
Long Creek (2)		not approved due to duplication									20
											21
											22
											23
											24
											25
											26
											27

3/19/36

*Stogard*

REVIEW OF AIR PHOTO COMPILATION T 5555

Scale 1:10,000

Comparison with Graphic Control Surveys

On the following graphic control surveys the shoreline has been shown in pencil located with an accuracy only adequate for boat sheet purposes. Recoverable details and plane table stations, however, have been located with the usual standards of accuracy and agree with the compilation except in the cases mentioned below.

T 6343 (1935), 1:10,000; T 6344 (1935), 1:10,000; T 6345 (1934), 1:10,000

There is good agreement between the plane table stations of T 6343, T 6344 and T 6345 and the compilation over the respective common areas. Described station Top was transferred from T 6345 under which number the description, Form 524, is filed. Checked by R.M.B. in this office.

T 6346 (1935), 1:10,000

The survey for T 6346 covers Fortescue Creek. There are comparatively few discrepancies of plane table stations and the compilation detail. Station HOK in Log Creek scales 2.7 mm; station WEE 1.0 mm in Warner Creek and FOX in Smokehouse Creek 1.1 mm. outside the compilation high water line whereas they are shown on T 6346 as on the high water line. These are probably planetable errors as the photo plot of the shoreline has been checked at this point and agrees with all other planetable stations in the immediate areas. Furthermore the plot is adequately controlled whereas the planetable survey depended on a rather long traverse beginning on station DUX (located by intersections) at the entrance to Fortescue Creek and extending 3 miles to triangulation station Fortescue, 1935.

Comparison with Previous Topographic Surveys

T 1273 (1872), 1:20,000.

The survey for T 1273 covers the Pungo River between Wade Point and Pungo Creek. There have been comparatively few changes of topography since the time T 1273 was made. The small island at lat. 35° 27.7', long. 76° 33.2' (measured on U.S. Std. Datum) is gone. A number of private roads shown on T 1273 have been abandoned. The compilation is adequate and detailed in order to supersede that portion of T 1273 which it covers.

T 1310 (1873), 1:20,000; T 1355 (1874), 1:20,000

Only a very small portion of this compilation is covered by T 1310 and T 1355, and the compilation is complete and adequate in order to supersede those portions of T 1310 and T 1355 which it covers.

Comparison with Hydrographic Surveys

H 5829 (1935), 1:10,000; H 5856 (1935), 1:10,000

There are no discrepancies between H 5829, H 5856 and this compilation. The small pier at lat.  $35^{\circ} 27.3'$ , long.  $76^{\circ} 29.8'$  was transferred from H 5856 as it could not be seen in the photographs on account of their dimness.

Comparison with Chart No. 1231

Changes to be made to this chart as a result of this compilation are discussed under the comparison with T 1273 above.

The report for this compilation does not mention landmarks. Chart letter 180 (1936) covers the aids to navigation while chart letter 199 (1936) covers landmarks for the whole project.

March 25, 1936.

*Leonard A. McGowan*  
*V. J. Jones*

## REVIEW OF AIR PHOTO COMPILATION NO. T-5555

Chief of Party: S. B. Grenell

Compiled by: C. Helfrich

Project: Inland Route ; North Carolina

Instructions dated: Dec. 14 1934

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)
2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)
3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)  
*T-6344 and T-6346 are graphic control surveys which cover this area in part. also T-6343 and T-6345.* ~~None~~
4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28) *None transmitted*
5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)
7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs." m-67

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)~~  
*No low water lines shown*
9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)  
~~Submitted by Lt. J. A. Bond 1935~~  
*No recoverable objects have been described in this area. with the graphic control surveys except for T-6345 with which one station has been described.*
10. ~~A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)~~  
*To be submitted by Lt. J. A. Bond 1935.*
11. ~~All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)~~ *None*
12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)
13. The geographic datum of the compilation is *N.A. 1927* and the reference station is correctly noted.
14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
15. The drafting is satisfactory and particular attention has been given the following:
1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout ~~except as noted in the report.~~
  2. The degrees and minutes of Latitude and Longitude are correctly marked.

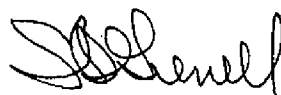
3. All station points are exactly marked by fine black dots.
4. Closely spaced lines are drawn sharp and clear for printing.
5. Topographic symbols for similar features are of uniform weight.
6. All drawing has been retouched where partially rubbed off.
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time.

17. Remarks:

18. Examined and approved;

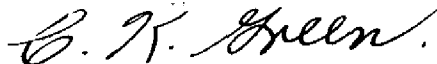


Chief of Party

19. Remarks after review in office:

Reviewed in office by: Leonard A. McGowan, March 23, 1936.  
W. B. Jones

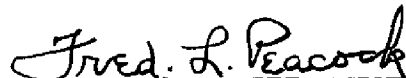
Examined and approved:



Chief, Section of Field Records



Chief, Division of Charts



Chief, Section of Field Work



Chief, Division of Hydrography and Topography.