

8319

Diag. Cht. No. 78-4.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. CS-289, W3 Office No. T-8319

LOCALITY

State Virginia

General locality James River

Locality Surry

1945-53

CHIEF OF PARTY

L.J.Reed, Div. of Photo., Wash., D.C.

L.C.Lende, " " " " " "

LIBRARY & ARCHIVES

DATE July 17, 1959

8-1870-1 (1)

8319

DATA RECORD

,T - 8319

Project No. (II): CS 289 W3 Quadrangle Name (IV): SURRY

Field Office (II): Chief of Party: Radial Plot = Lester C. Lande
 Photogrammetric Office (III): Washington, D.C. Officer-in-Charge: Compilation = Louis J. Reed

Instructions dated (II) (III): Copy filed in Division of
 Photogrammetry (IV)

Method of Compilation (III): Nine-Lens Plotter

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III):

Date received in Washington Office (II): OCT 13 1953 Date reported to Nautical Chart Branch (IV): OCT 19 1953

Applied to Chart No. Date: Date registered (IV): 9/8/58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927

Vertical Datum (III):

Mean sea level except as follows:
 Elevations shown as (25) refer to mean high water
 Elevations shown as (5) refer to sounding datum
 i.e., mean low water or mean lower low water

Reference Station (III):

Lat.:

Long.:

Adjusted

~~XXXXXXXXXX~~

Plane Coordinates (IV):

State:

Zone:

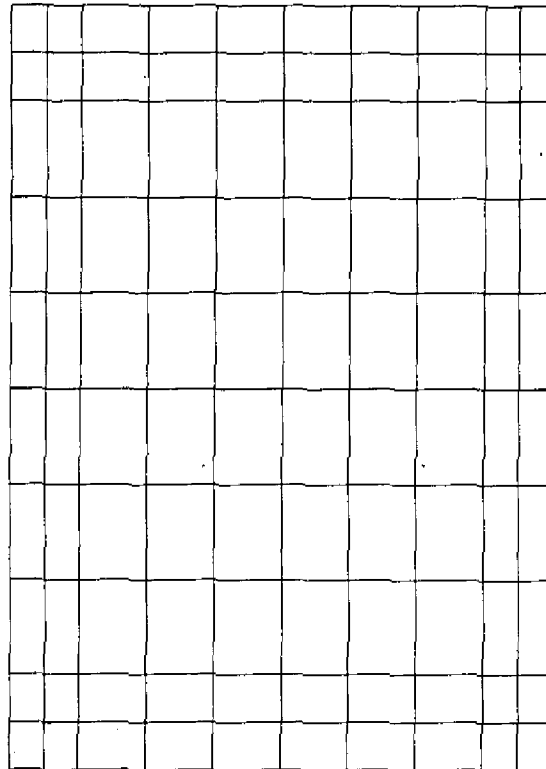
Y=

X=

Universal Transverse Mercator, Zone 18, 1,000 meter interval
 Virginia State Grid South, 10,000ft interval

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
 or (IV) Washington Office.

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



Areas contoured by various personnel

(Show name within area)

(X) (III)

Entire area compiled on the Reading
Plotter, model "B", by the team of

Louis Levin
and
Orvis N. Dalbey

DATA RECORD

Field Inspection by (II):

Date: 2-11/3-18-46

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

The shoreline of this compilation is dated 1952. It was compiled as it appeared on the 1952 photographs used on the compilation instruments. Tide range is inconsequential.

Projection and Grids ruled by (IV): Jack Allen on the Reading Ruling Machine

Date: 19 Nov 52

Projection and Grids checked by (IV): Howard D. Wolfe

Date: 20 Nov 52

Control plotted by (III): Stanley J. Hathorn

Date: 25 Nov 52

Control checked by (III):

Jeter P. Bat^tley_A

Date: 30 Nov 52

Radial Plot ~~Not a Radial Plot~~
Control extension by (III):

Sam G. Blankenbaker

Date: 6 Aug 53

Stereoscopic Instrument compilation (III):

Planimetry Louis Levin and
Contours Orvis N. Dalbey

Date: 22 Sep 53

Manuscript delineated by (III):

Robert L. Sugden

Date: 9 Oct 53

Photogrammetric Office Review by (III): Louis J. Reed

Date: 15 Oct 53

Elevations on Manuscript
checked by (II) (III):

Louis J. Reed

Date: 15 Oct 53

Camera (kind or source) (III): USC&GS 9-Lens Camera, model "B", f = 8.25 inches

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
36073 thru 77		11:50		
36083 thru 88		12:06		
36089 thru 94	27 Mar 52	12:18	20,000	1.2ft above MSL
36097 thru 03		12:33		

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

John M. Neal

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 43 sq mi
Shoreline (More than 200 meters to opposite shore) (III): 19 miles
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II): 45
Number of Triangulation Stations searched for (II): 2 Recovered: 2 Identified: 2
Number of BMs searched for (II): none Recovered: Identified:
Number of Recoverable Photo Stations established (III): none
Number of Temporary Photo Hydro Stations established (III): none

Remarks:

1. Preface:

- 7 -

FIELD INSPECTION REPORT

T-8319

5. Vertical Control

Date started 2-11-46
Date completed 3-18-46
Linear miles 4th Order Levels 38.5
Linear miles 3rd Order Levels 6

Recovery

Existing vertical control was recovered and pricked in 1944 by the War Mapping Field Party. No attempt was made to determine the adequacy of the work; it was felt the field edit party would pick up any discrepancies which might exist.

Photograph

The following 9-lens photograph was used: 12946

Methods

3rd Order

About 6 linear miles of 3rd Order Levels were completed by Mr. Mathew A. Stewart, Engineering Aid, using instruments and methods as prescribed by the Division of Geodesy.

Permanent Bench Marks were placed ^{at} about one mile intervals along the level lines, ^{with} and supplemental spot elevations between them.

4th Order

About 38.5 linear miles of 4th Order Levels were completed by Messers. John R. Smith and Mathew A. Stewart, Engineering Aids.

The leveling was accomplished by trigonometric and wye level methods. Computations were made to the nearest 1/10 of a foot. The average error of closure was less than one foot and no level loop was known to exceed the allowable error of closure.

Level information appears on the photographs in blue ink. The code letters SU prefix all spot elevations. The following method was used to distinguish the closed elevations from the unclosed:

- 8 -

- 1..Elevations circled indicate the loop was not closed on a known elevation.
2. Elevations underscored by a dashed line indicate the loop was closed on tide water and no adjustment made.
3. Elevations underscored by a solid line indicate the loop was closed on a previously determined elevation or ~~an~~^{an} existing Bench Mark .

Submitted with the photographs is a layout sheet showing the approximate positions of the spot elevations. Also, on the front page of the Level Volume is the following information: Loop, Page, Closure, Notes checked by, Photo Number.

Respectfully submitted,

/s/ John R. Smith
Engineering Aid

PHOTOGRAMMETRIC PLOT REPORT

21. Area covered:

This report applies to the following topographic manuscripts:

T-8309	T-8319
T-8310	T-8320

22. Methods:

The plot was assembled on ~~the~~ four 1:20,000 scale vinylite manuscripts ruled with Universal Mercator grids, Virginia State grid, (South) and Polyconic projections. "Tabs" or base sheets (Va. State Grid, - South) were added where necessary to reach horizontal control and for recovery of map positions of points need^{ed} for rectification.

The photographs are metal-mounted nine lens at a scale of 1:20,000. Photographs used were:

36074	through	36079
36083	"	36088
36089	"	36094
36097	"	36102

Vinylite templets were made from the photographs using master calibration templet No. 36048.

33 horizontal control points were used to control the plot. 30 stations held within .2 mm. (*Error in other three stations explained Page 11 this report*)

All triangulation stations or their sub. stations are designated by letters or numbers on the photographs, manuscripts and templets. The key to the numbers or letters is on the sketch for the radial plot.

Triangulation stations "A" through "S" (with the exception of "K") were transferred from the office photographs used in the radial plot for T-8323 and T-8324. Station "K" was office identified.

Triangulation stations Nos. 1 through 13 (excepting No. 2 and No. 5) are 1952 recovery stations. 1952 control station identification cards were available for these stations. Stations Nos. 2 and 5 were office identified.

The elevations for vertical control stations and the "R" designations for sea level points are not shown on the photographs, templets or manuscripts. The elevations and "R"s are shown only on the transparent acetate overlays. The green wax circles on the overlays show points established by "2 cuts" only in the radial plot. These points are circled in green ink on the manuscripts.

-2-

In the southwest corner of the project several points established by the radial plot have no recovered map positions. These points have been circled on the templets in green ink for points established by "2 cuts" and in blue ink for points established by more than "2 cuts". Elevations of the points have been assigned to the templets.

No system of different color rays on the templets was used in the plot. In the relatively few instances where the transfer of points ^{was} ~~were~~ questionable the points were given a broken circle and were not used in the radial plot.

On the north side of the job horizontal control was transferred from the old manuscripts to the new manuscripts and base sheets.

23. Adequacy of control:

The horizontal ^{control} control was adequate. The radial plot sketch and the ^{attached} ~~"pricking data sheet"~~ show the density and distribution of control and indicate tolerance on closure.

The three stations not held in the plot (Wharf, 1938 sub. station; East Gable Dancing Pavilion, 1938; Short, 1938 sub. station) fall in well controlled areas. The other stations in the area were more easily identified on the photographs. The radial plot position for Wharf, 1938 sub. station is approximately the same as the position obtained by the plot for T-8323 and T-8324.
^{for Wharf}

24. Supplemental Data:

Several road intersections with elevations on AMS quads were identified on the photographs and used as pass points. The elevations of these points are on the overlays and are designated by "Q".

25. Photography:

Photographic coverage, overlaps and definition are adequate for radial plotting.

26. Vertical control:

Elevations of vertical control stations are shown on three transparent acetate overlays.

Several nine lens field photographs were not available for the job; however, elevations of points in the area had been transferred to single lens office photographs prior to the time the field photographs were lost.

-3-

27. Recoverable topographic stations:

None

28. Junctions with contemporary plots:

Horizontal ties were made with common pass points, road intersections and common horizontal control on the north, east and south sides of the job. Not all of the pass point and road intersection positions were held, but a fair average was obtained.

There are no contemporary surveys on the west side of the project.

Submitted by:

S. G. Blankenbaker
S. G. Blankenbaker

APPROVED:

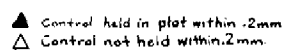
L. C. Lande
L. C. Lande
6 Aug 1953

Reviewer's comment

The 3 control stations not held in the plot are mentioned in 23 of this report. Note tabulation page 12 states all 3 stations were office identified on the 1952 photographs by transfer from 1948 photographs - such identification is sometimes questionable even if the original field identification was positive. It will be noted that wharf 1938 was common to the two plots and was not held in the plot for T 8323-24 thus indicating the original field identification unreliable.

Project 289 W3
"CONTROL" DATA SHEET

Sta. No. Sta. Name		Pricking Data					
		Recovery Photo	Recovery Date	Where found	Remarks	Accuracy Tolerance	Remarks
1.	Spring Hill, 1941	36099	11-7-52	card	sketch	Held	sub. sta.
2.	Wakefield Mun. W.T. 1944	-	Office identification	-	-	Held	direct
3.	Ivor, 1944	36094	11-5-52	card	sketch	Held	sub. sta.
4.	Dendron Az. Mk. 1944	36092	11-6-52	"	"	.2 mm.	" "
5.	Surry Fire Lookout Tower	-	Office identification	-	-	Held	direct
6.	Savage, 1944	36100	11-7-52	card	sketch	.2 mm.	sub. sta.
7.	Claremont, 1932	36101	11-7-52	"	"	.2 mm.	" "
8.	Bacon, 1932	36077	11-4-52	"	"	Held	" "
9.	Bobs, 1944	36078	11-4-52	"	"	Held	" "
10.	Cobham, 1938	36076	11-4-52	"	"	.2 mm.	" "
11.	Red Roofed Ho. E. Gab. 1938	36089	11-7-52	"	"	Held	direct
12.	White Ho. W. Chim. Of Four	36090	11-7-52	"	"	.1 mm.	"
13.	Cobb, 1944	36079	11-6-52	"	"	.2 mm	sub. sta-2 cuts
"A"	Jamestown Mon. 1910	transfer from	office photos			Held	Direct
"B"	E. Gab. Dancing Pav. 1938	"	used in previous plot			.6 mm.	direct
"C"	Dancing Pt. Shoal Range Light 1938	"	"	"	"	.1 mm.	direct-2 cuts
"L"	LM College Stack 1932	"	"	"	"	Held	" 1 cut
"E"	Wmsb. Bruton Parish Ch. Spire, 1942	"	"	"	"	Held	" 1 cut
"P"	Wmsb. Mun. W.T., 1942	"	"	"	"	Held	" 1 cut
"G"	Wmsb. Baptist Ch. spire 1942	"	"	"	"	"	" 1 cut
"H"	Williamsburg, 1932	"	"	"	"	.2 mm.	sub. sta.
"I"	Wmsb. Colonial Capitol clock tower, 1942	"	"	"	"	Held	direct 1 cut
"J"	Wmsb. Lookout Tower 1942	"	"	"	"	Held	direct 1 cut
"K"	Large Gray Barn S. Gable 1938	Office identification				Held	direct 2 cuts
"L"	Wharf, 1938	trans. from Off. photos	used in previous plot			.5 mm.	sub. pt.
"M"	Large gray barn, S. gable 1938	"	"	"	"	Held	direct
"N"	Boiler of wreck, 1938	"	"	"	"	Held	direct 2 cuts
"O"	Chippkes Creek Wharf Flagpole, 1938	"	"	"	"	Held	direct
"P"	Brandon Wharf Lt. 1938	"	"	"	"	Held	direct
"P-1"	Daniels, 1938	"	"	"	"	.2 mm.	sub. sta. 2 cuts
"Q"	Upper Brandon Farm-house on wharf NW Gable, 1938	"	"	"	"	Held	direct 1 cut
"R"	Sturgeon Pt. Square brick stack, 1938	"	"	"	"	Held	direct 1 cut
"S"	Short, 1938	"	"	"	"	1.0 mm.	sub. sta.



* Used in Radial Plot
 ** Used in Radial Plot
 (Falls outside quad. limits)

Photogrammetry

MAP T-8319 PROJECT NO. CS. 289 W3 SCALE OF MAP 1:20,000 SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		Description N.A. 1927-DATUM BOOK NO. SHEET NO. CORRECTION Page		DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
DILLARD -2 1910 (USE)	Vol. 1 312	N.A. 1927	37 12	31.694	76 51	51.085	326	977.1	15-24-29	1259.7		
" "	Zone 2 80	"	322,868.27									
COBHAM 1938 (E of 8319)	Vol. 1 308	"	2,476,363.73									
" "	Zone 2 78	"	37 08	43.313	76 43	32.935	326	1335.2	13-23	812.8		
COBHAM, 1938 (Sub.Sta. 1952)	Form M-2226-12	"	300,502.96									
CHURCH POINT LIGHT, 1938	1 314	"	2,517,089.37									
JAMESTOWN MONUMENT 1910 *	1 55	"	37 08		76 43			998.7		988.9		
WHARF, 1938	1 313	"					326					
WHARF, 1938 Sub. Sta. *	M-2226-12	"	37 12	30.966	76 46	40.220	14-23	954.6		991.9		
WHITE HOUSE SO. GABLE 1938	1 315	"	37 14	59.313	76 52	28.027	326	1828.5		690.7		
LARGE GRAY BARN S. GABLE, 1938 (N. of 8319) **	1 315	"	37 14		76 52		16-27	1822.8		697.2		
WILLIAMS LOOK- OUT TOWER, 1942 (NE of 8319) **	1 464	"										
			37 15	49.306	76 52	17.760	326	1520.0		437.6		
			37 15	16.65	76 41	43.19	17	513.3		1064.4		

Page

M. 2388 13

14

DATE

CHECKED BY

DATE

COMPUTED BY

1 FT. - 3048006 METER

SCALE FACTOR 1.0

[illegible]

MAP T-8319 PROJECT NO. CS 289 W3 SCALE OF MAP 20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
HOMINY, 1938 RM 2	312		37 14 76 52		977.4 327.1	977.4 327.1					
MUD, 1938 dm	314		37 14 31.301 76 50 11.889		45.0 1804.6 973.5 506.8						
NEW PINE (USE), 1938 dm	312		37 14 08.549 76 48 08.784		263.5 1586.2 216.5 1262.5						
WHITE HOUSE, SOUTH GABLE, 1938 d	315		37 13 52.569 76 47 35.936		1620.6 229.1 885.9 593.1						
MUSEUM (USE), 1938 dm	314		37 12 32.646 76 46 50.539		1006.4 843.2 1246.2 233.3						
JAMESTOWN MON- UMENT, 1910 nd	55		37 12 30.966 76 46 40.220		954.6 895.0 991.9 487.6						
CHURCH POINT LIGHT, 1938 d	314		37 12 22.905 76 46 44.502		706.1 1143.5 1097.4 382.2						
GOOSE HILL CHANNEL, REAR RANGE LIGHT, 1938 d	311		37 09 59.282 76 45 42.496		1827.5 22.1 1048.5 431.8						
GOOSE HILL CHANNEL, FRONT RANGE LIGHT, 1938 d	311		37 10 01.460 76 45 39.457		45.0 1804.6 973.5 506.8						
JONES, 1869	55		37 10 08.430 76 45 52.090		259.9 1589.7 1285.1 195.2						
NOTE: All ten of the stations on this page, plus the five on the following page (15-2), are the triangulation stations selected to be shown on the completed manuscript.											

1 FT. = 3048006 METER

COMPUTED BY:

DATE

CHECKED BY:

DATE

M. 2388

5-11

MAP T-8319 PROJECT NO. GS 289 W3 SCALE OF MAP 20,000 SCALE FACTOR

STATION	GP Page SOURCE OF INFORMATION (INDEX) NO.	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
SCOTLAND(USE), 1938 ^{dm}	316		37 11 02.447 76 47 10.676	75.4 1774.2 263.3 1216.7			
CYPRESS, 1938 ^m RM 1	(312)		37 12 76 48	706.7 1142.9 283.3 1196.3			
MILL (USE), 1938 ^{dm}	312		37 12 24.592 76 50 23.041	758.1 1091.5 568.2 911.3			
DILLARD2 (USE), RM 2, 1938 ^m	(312)		37 12	955.2 894.4 1274.4 205.1			
SURRY, 1932 ^{dm}	27		37 08 09.768 76 50 06.992	301.1 1548.5 172.6 1308.3			
Jamestown 1869			37-11-28.331 76-45-22.232			873.4 976.2 548.3 931.6	
Ferry 1938			37-11-02.169 76-47-09.537			66.9 1782.7 235.2 1244.8	
* Recovered by Field Editor							

COMPILATION REPORT31. Delineation:

The contouring and delineation of cultural features was accomplished simultaneously on the Reading Plotter, model "B". Photo coverage was complete, and field inspection was nearly complete. However, the field inspection was out-of-date, having been accomplished in 1944 on 1942 photographs, and it was used as a guide only during instrument delineation. Because the instrument photos were of 1952, ground features had changed considerably since the field inspection date. Judgement was used by the instrument operator in bringing the compilation up-to-date as much as possible even though the field inspection information had to be violated. None-the-less, a considerable amount of field completion work will be required. The entire area of this quad has been compiled.

32. Control:

The horizontal control was adequate as stated in side-heading 23 of the Radial Plot Report, page 10. Note that that report covered three other quads in addition to T-8319.

Vertical control for contouring purposes was not entirely satisfactory. Level lines were run along nearly all the roads in the area, with spur lines extended into inaccessible or large open areas within the road network. The spacing of elevation points in this work was adequate, but an occasional elevation did not agree with the instrument datum established on elevations surrounding it, in which cases the elevation was disregarded, a new instrument elevation recorded, and the point added to the overlay for field investigation.

33. Supplemental Data:

a. Special Reports: None.

b. Shoreline Surveys: Two such surveys exist covering the area of this quad, 8076 covering the north half, and 8077 covering the south half. They are at a scale of 1:10,000 and were compiled in 1940. Because of their age no attempt was made to compare them with this compilation; it is felt that they are out-of-date and superseded by this work.

c. Field Inspection Photos: 12945, 46, 10, 11, and 12. Three others that might have coverage are lost: 12944, 80, and 81.

34. Contours and Drainage:

The quality of the photographs was not very satisfactory for contouring. In the original transformation of the photos, an error in lens setting produced fuzzy center chambers which resulted in rectified prints that were just usable, no more. No other particular difficulties were experienced and the entire land area of the quad was contoured.

35. Shoreline and Alongshore Details:

Shoreline inspection was lacking and the shoreline is apparent, having been delineated as it appeared on the instrument photographs. No low-water or shoals are shown.

36. Offshore Details: Not applicable.37. Landmarks and Aids:

No landmarks were recommended by the field inspector and it is suggested that this matter be given some attention during field edit. The instrument operator believes that the Jamestown Monument has landmark value.

Aids to navigation add up to three lights, as follows:

1. Church Point Light (Δ)
2. Goose Hill Channel Range Front Light (Δ)
3. Goose Hill Channel Range Rear Light (Δ)

Ranges for the Goose Hill Channel and Swan Point Shoal Channel have been ~~plotted~~ determined from triangulation data and need not be redetermined. Srv.

38. Control For Future Surveys: ~~None~~ Adequate. Srv.39. Junctions:

All four junctions are in agreement with 1:20,000 scale US&GS topographic compilations, as follows: T-8318 on the east, T-8324 on the north, T-8320 to the west, and T-8310 on the south.

40. Horizontal and Vertical Accuracy:

This compilation is believed to meet the requirements for accuracy established by National Map Accuracy Standards; This compilation meets the accuracy requirements for a 1:20,000 scale map, and for a 20ft contour interval.

46. Comparison with Existing Maps:

SURRY QUADRANGLE, Virginia, 1:62,500, 1919 edition.

47. Comparison with Nautical Charts:

JAMES RIVER, NEWPORT NEWS TO JAMESTOWN ISLAND, No. 529, 1:40,000, 9th edition, August 1944, last corrected 29 Sep 52.

JAMES RIVER, JAMESTOWN ISLAND TO JORDON POINT, No. 530, 1:40,000, 5th edition, Sept 1940, last corrected 23 Jul 51

48. Geographic Name List:

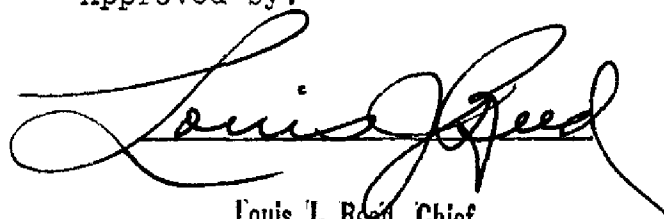
See ~~next~~ page ^{herein}. These names should be verified during field edit because no name investigation was performed by the field inspector.

49. Notes for the Hydrographer: Not applicable.
50. Compilation Office Review: See numbered page following.

Submitted by:


Orvis N. Dalbey, Chief,
Nine-Lens Plotter Section

Approved by:


Louis J. Reed, Chief
Stereoscopic Mapping Branch
Photogrammetric Engineer

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT ONE

Review Section, Washington, D. C. 5 July 1955

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by

E. H. Kirsch

Chief of Party.

[illegible]

This form shall be submitted in accordance with Hydrographic Manual pages 800 to 804 Positions of charted landmarks and nonfloating

GEOGRAPHIC NAMES

Survey No.

T-8319

Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	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		
ALLIANCE										1
ALLIANCE ROAD										2
BACK RIVER										3
BACK RIVER MARSH										4
BARRETS POINT										5
BLACK DUCK GUT										6
BLIZZARDS CREEK										7
BLIZZARDS CORNERS										8
BROAD SWAMP										9
CAMP WATERS										10
CEDAR FIELD CREEK										11
CEDAR FIELD NECK										12
CHURCH POINT										13
COBHAM WHARF										14
COBHAM WHARF ROAD										15
COLLEGE RUN										16
CROSS CREEK										17
CROSS CREEK LANDING										18
CROUCH CREEK										19
DAVIS LANDING										20
DILLARD WHARF										21
FOUR MILE TREE										22
GLASS HOUSE POINT										23
GRAYS CREEK										24
GRAYS LANDING										25
Dark Swamp										26
										27

(final S OK.)

(Names Report does not specify
nature of camp. Name is
found on signboards in area)Names approved
10-21-53
L. Heck

GEOGRAPHIC NAMES

Survey No.

T-8319

Name on Survey

	On Chart No.	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	
SPRING GROVE ROAD									1
SURRY									2
SURRY COUNTY									3
SWANN POINT									4
SWANN POINT SHOAL CHANNEL									5
THE THOROFARE									6
TIMBER NECK									7
TIMBER NECK CREEK									8
✓ Swann Point Road (added, to agree with T8320)									9
CHICKAHOMINY RIVER									10
COLONIAL TRAIL									11
COBHAM DISTRICT									12
✓ 012 COURTHOUSE ROAD									13
GREEN SWAMP									14
GOOSE HILL									15
GUILFORD DISTRICT									16
OLD EARTHWORKS									17
ROLFE HIGHWAY									18
LEBMEN CHURCH									19
Lebmen Cemetery									20
POPLAR LAWN CEMETERY									21
POPLAR LAWN CHURCH									22
POPLAR LAWN SCHOOL									23
✓ Clark's Landing									24
✓ Branding Gut									25
Oakwood Cemetery									26
									27

(Name OK, if it is to be used)

State No. 10

(s. edge, long 76° 49.8')

State No. 31

PHOTOGRAMMETRIC OFFICE REVIEW

T. 8319

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy 15 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) 1 7. Photo hydro stations 2 8. Bench marks ☒
9. Plotting of sextant fixes 2 10. Photogrammetric plot report ☒ 11. Detail points 2

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line 2 14. Rocks, shoals, etc. 2 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks 3 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours ☒ 23. Stereoscopic Instrument contours ☒ 24. Contours in general ☒ 25. Spot elevations ☒ 26. Other physical features ☒

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads 2 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒

40. [Signature]
Reviewer

[Signature]
Supervisor, Review Section or Unit

Louis J. Reed, Chief

41. Remarks (see attached sheet)

Stereoscopic Mapping Branch
Photogrammetric Engineer

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

FIELD EDIT REPORT
Quadrangle T-8319 (Surry)
Project CS-289 W-3
E.H.Kirsch, Chief of Party

51. METHODS-- The quadrangle was inspected by riding over all passable roads to check their classification, to classify buildings, to examine questioned areas and to visually check contours and planimetry. The shoreline was inspected by skiff running close inshore. Standard surveying methods were used for corrections, additions and checking.

All additions, corrections and deletions have been either indicated on the field edit sheet or cross referenced to the photographs. Red ink was used for additions and corrections, green ink was used for deletions and violet ink used to show the elevations for all vertical accuracy testing. No legend is shown on the field edit sheets or photographs.

Field edit information is shown on two double weight matte prints, each cut into four sections and numbered 1,2,3&4. One of the double weight prints was used only for the vertical testing. The rest of the information is shown on four nine lens 1:20,000 scale photographs numbered 36074, 36076, 36086 and 36087, one discrepancy print and two shoreline survey sheets numbered T-8076 and T-8077.

52. ADEQUACY OF COMPILATION-- The map compilation is near adequate and will be complete with the application of the field edit data.

53. MAP ACCURACY-- The horizontal positions of the mapped details appear to be good, plane table traverses conducted in various areas checked well with all details. The quadrangle was tested, for vertical accuracy, at thirty places that had been picked by the Review Section. The map elevation of these points was estimated by the Review before they were field tested. Of the thirty points tested, ninety seven percent had an error of less than one half a contour interval of error and three percent an error of more than one half a contour interval but less than one contour interval of error. Several contours were tested for accuracy at the same time the thirty points were tested with no error greater than one half a contour interval being found.

54. RECOMMENDATIONS-- None offered

55. EXAMINATION OF PROOF COPY-- No one was requested to examine a proof copy of this map.

Respectfully submitted,
23 December, 1953

Elgan T. Jenkins
Elgan T. Jenkins
Cartographer

Review Report

T-8319

Topographic Map
Aug 31, 1955

61. General Statement:

See summary, Page 20, of Descriptive Report, covering T-8323-24. T-8319 is one of the 6 standard 7.5-minute quadrangles of Project CS-289-W3 described in the reference summary.

62. Comparison with Registered Topographic Surveys:

T-1290	1:20,000	1873-74
1290a	"	1910
2693)	1:10,000	1905
2693a)		
8076)	"	1941-42
8077)		

T-8319 supersedes all the above surveys for nautical chart construction or maintenance use. The alongshore detail on T-8076-77 within limits of this survey was field-edited in December 1953. Objects mapped on T-8076-77 which were not visible above MLW during field edit do not appear on T-8319.

63. Comparison with Maps of Other Agencies:

No extensive differences were noted.

64. Comparison with Contemporary Hydrographic Surveys:

No contemporary hydrographic surveys exist; however, comparison was made during application of Hydrography with these surveys:

H-7641	1:10,000	1948
7642	"	"
7021	"	1944

No extensive differences were noted but it should be noted that T-8319 does not show the numerous fish traps that were apparently located in detail on the above surveys. No doubt, many of these obstructions have been moved since 1944-48. These traps, consisting of stakes 2 or 3 inches in diameter, are not visible on the photographs. Several 10-inch piling and one tree in Sandy Bay were located by intersection methods and have been plotted on T-8319.

65. Comparison with Nautical Charts:

530	1:40,000	5th Edition, 1940, (last correction date 5/23/49)
529	"	1st Edition, 1912 (" " " 7/12/54)

65 (Continued:

All fixed aids locations were verified except the 2 front dredging markers near Swan Point Range lights. These markers were not in existence at the time of Field Edit. One wreck, one snag, and three piling shown on Chart 530 were not found. Otherwise, no significant differences are apparent.

66. Adequacy of Results:

See 53 of Field Edit Report for results of accuracy test. This map meets requirements of the National Standards of Map Accuracy.

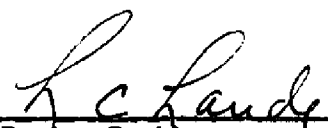
67. Boundaries:


The town of Surry was incorporated in 1926. The legal description calls for 15 property lines. No survey has been made, nor has any map been prepared, showing the town boundary. The equivalent of an extensive property survey would be necessary to plot the boundary; therefore, it is omitted from T-8319.


Reviewed by:

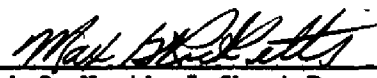

John M. Neal

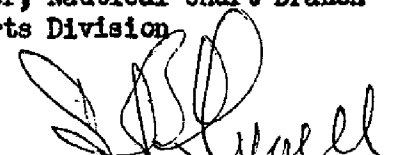
APPROVED:


Chief, Review Section
Photogrammetry Division


Chief, Photogrammetry Division

16 July 59 


Chief, Nautical Chart Branch
Charts Division

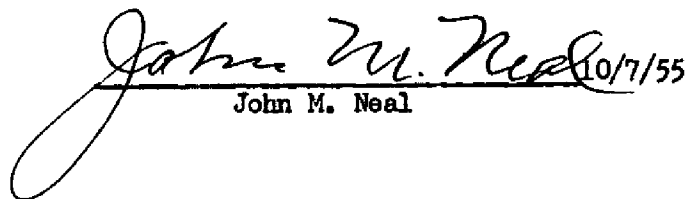

Chief, Coastal Surveys Division

Project 6012 (CS-289)
Application of Hydrography
Quads: T-8319, 8320, 8321, 8322, 8323, 8334 and 8336

Hydrography was applied to the above quadrangles from the following
surveys and charts:

H-7021	1:10,000	1944	T-8323
7083	"	1946	T-8321, 8336
7610	"	1948	T-8320, 8322, 8323
7611	"	1948	T-8321, 8322
7612	"	1948	T-8321
7641	"	1948	T-8319
7642	"	1948	T-8319, 8320
7714	"	1947	T-8323, 8334
Chart 529	1:40,000	1953 (54-7/12)	T-8319
" 531	1:20,000	1947 (55-1/17)	T-8321
" 530	1:40,000	1955 (re-compilation)	T-8319 thru 8323, and T-8334

All hydrography was applied during March thru August, 1955 by
John M. Neal and verified September, 1955 by O. S. Svendsen in accordance
with general specifications dated 18 May 1949. Depth curves and soundings
are in feet at mean low water.


John M. Neal 10/7/55

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8319

Record of Application to Charts

[illegible]

M.2168.1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.