

8336

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 W1 Office No. T-8336

LOCALITY

State Virginia

General locality James River

Locality Roxbury

1948-53

CHIEF OF PARTY

F.E. Peacock, Chief of Field Party

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

LIBRARY & ARCHIVES

DATE June 15, 1958

DATA RECORD

T-8336

Project No. (II):

Quadrangle Name (IV): Roxbury

CS-289 W1

Field Office (II):

Chief of Party: F. E. Peacock

Photogrammetric Office (III): Washington, D. C.

Officer-in-Charge: Louis J. Reed, Chief,
Stereoscopic Mapping Section

Instructions dated (II) (III):

#17 - 15 September 1947

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Reading Plotter

Manuscript Scale (III): 1:20,000

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

Scale Factor (III): 1:1

Date received in Washington Office (IV) *8-26-49* Date reported to Nautical Chart Branch (IV): *8-31-49*

Applied to Chart No.

Date:

Date registered (IV): *1 April 1958*

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): SAMARIA, 1932

Lat.: N 37-25-07.372

Long.: W 77-08-18.561

Adjusted
Unadjusted

Plane Coordinates (IV):

State: Virginia

Zone:

Y=

X=

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)
 (II) (III)

100% by Orvis N. Dalbey
 on the Reading Plotter

DATA RECORD

Field Inspection by (II): Fred L. Peacock

Date: 1944-5

Planetable contouring by (II): None

Date:

Completion Surveys by (II): None

Date:

*Sammors &
Sankins
May 1953*

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

Projection and Grids ruled by (IV): Ruling Machine

Date: 9 Feb 49

Projection and Grids checked by (IV): Wheatley E. Ward

Date: 9 Feb 49

Control plotted by (III): John B. McDonald

Date: 11 Feb. 1949

Control checked by (III): Louis J. Reed

Date: 11 Feb. 1949

Radial Plot or Stereoscopic
Control extension by (III):

Graphic Compilation Section
Division of Photogrammetry, Wash. D.C.
Roscoe J. French

Date: 10 Jan. 1949

Stereoscopic Instrument compilation (III): Orvis N. Dalbey
Contours

Date:

18 March 1949

Date:

Manuscript delineated by (III): John B. McDonald

Date: 19 Aug 49

Photogrammetric Office Review by (III):

Date:

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

Louis J. Reed

Date: 25 Aug 49

Camera (kind or source) (III): USC&GS Nine-lens Camera, $8\frac{1}{4}"$ f

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
<u>Compilation Photography</u>				
22252-55		11:54	1:20,000	Not applicable
22276-78	30-3-48	12:26	"	
22280-82		12:30	"	

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): *John M. Neal*

Date: *8/14/55*

Final Drafting by (IV): *M. Day*

Date: *3/6/58*

Drafting verified for reproduction by (IV): *W.D. Hallum*

Date: *3/10/58*

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 60 sq. mi.

Shoreline (More than 200 meters to opposite shore) (III): None

Shoreline (Less than 200 meters to opposite shore) (III): About 6 miles

Control Leveling - Miles ~~(11)~~: (55)

Number of Triangulation Stations searched for ~~(11)~~: 1 Recovered: 1 Identified: 1

Number of BMs searched for ~~(11)~~: (15) Recovered: Identified:

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

No tide curve has been computed since the section of the river falling within this quadrangle is upstream from all the stations.

PROJECT NO. 09 289 W-1
SCALE OF MAP 1 : 20,000
SCALE FACTOR 1 : 1

PROJECT NO. 09 289 W-1
SCALE OF MAP 1 : 20,000
SCALE FACTOR 1 : 1

MAP T.....
 MAP NO. 8335.....
 PROJECT NO. 09 289 W-1.....
 SCALE OF MAP 1 : 20,000.....
 SCALE FACTOR 1 : 1.....

[illegible]

COMPUTED BY:

DATE _____

CHECKED BY:

DATE _____

M-2388-12

Description Report to Accompany

Quadrangle T 8336

Project CS 289 W -1

Harland R. Cravat, Chief of Field Party

5. Vertical Control:

Date started10-22-45

Date completed 11-26-45

3rd Order Levels 14 linear miles

4th Order Levels 45 linear miles

Recovery:

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

New 3rd Order Bench Marks were pricked as the leveling progressed. New Bench Marks are as follows:

L 296 1945	U 296 1945
M 296 1945	V 296 1945
N 296 1945	W 296 1945
Y 296 1945	X 296 1945
S 296 1945	P 296 1945
T 296 1945	

Photograph Nos:

The following nine lens photos were used for the new work: # 13030 -- # 13029 -- # 13031 -- # 13038

Methods:

About 14 linear miles of new 3rd Order Levels were completed by Mr. Robert R. Kim, Photo Aid, using instruments and methods as prescribed by the Division of Geodesy.

About ⁵45 miles of 4th Order Levels were completed by Mr. John R. Smith, Engineering Aid. Elevations were carried by Wye Level methods and to the nearest 0.01 of one foot.

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

- 1.- Elevations circled indicate loop was not closed on a known elevation
- 2.- Elevations underscored by dashed line indicates the loop was closed on tidewater.
- 3.- Elevations underscored by solid line indicates the loop was closed by an approved elevation or a Bench Mark.

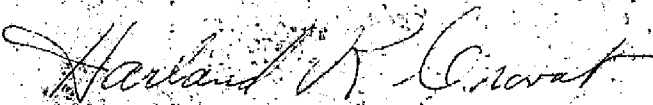
One Wye Level line less than one mile in length was not closed. This, however, is felt to be well within the required limit of accuracy. No level loops were closed in excess of 2.0 feet allowable error. The average error of closure was 0.40 of a foot.

Submitted with the photos is a layout showing the approximate positions of the spot elevations. Also, on the fly leaf of each volume is the following: Loop, Page, Closure, Field notes checked by, Inked on photo #, Copy checked by, and Remarks.

Respectfully submitted,

John R. Smith
Engineering Aid

Approved December 6, 1945 by:



Harland R. Cravat
Photogrammetric Engineer

Compilation Report

26. Control: Details regarding control have been incorporated in a separate Radial Plot Descriptive Report to accompany this report.

Three horizontal control stations exist in this quadrangle and are listed on a separate page herein. Stations outside the quadrangle used in controlling the plot are described and listed in the Radial Plot Report mentioned above.

Vertical control, as covered in paragraph 5, this report, was adequate and served as a basis for establishing a datum for instrument compilation of the contours shown on the manuscript.

27. Radial Plot: See separate Radial Plot Report to ~~accompany this quadrangle, T-8336.~~ *Filed with Report of T 8335*

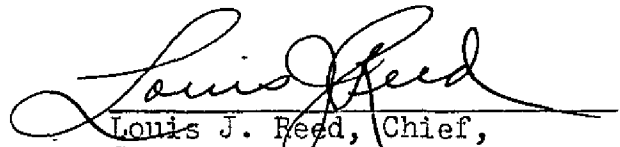
28. Detailing: Planimetry and contours were compiled on the Reading Plotter from rectified metal-mounted 9-lens prints of the original photographs used in laying the radial plot. Cultural details were delineated on the instrument guided by data from field inspection photographs. The field inspection was accomplished in 1944 and 1945 and was quite obsolete at the time of compilation as evidenced by new highways and woodland changes apparent in the 1947 compilation photographs. A thorough field edit will be required to verify the details not covered by the field inspection.

The photography used in compilation was quite adequate for the required purpose.

29. Supplemental Data: Shoreline Survey T-8088 at 1:10,000 scale furnished the basic shoreline on this compilation and compared favorably with the 1:20,000 compilation. Where small differences existed due to natural water action of the river as evidenced by the later photography, the later data was incorporated in the manuscript shoreline.
37. Quadrangle Junctions: An attempt was made to have all four edges agree with adjoining quadrangle sheets. A good junction was made with T-8321 to the south which was compiled in 1947. T-8335 to the east agrees since it was compiled in conjunction with this quadrangle and is therefore one and the same compilation. T-8609 to the north, compiled in 1946 on the multiplex, is in agreement with this quadrangle except for a small area about an inch from the eastern end of the match-edge where ground elevations furnished on either side of the junction do not agree; field edit should correct this matter of disagreement. The fourth edge, to the west, should have matched USGS quadrangle

"Dutch Gap, 1938", but a very poor junction was possible. Detail on the manuscript is as compiled on the instrument and is considered correct within the allowable limits of accuracy. Field edit will be required to verify this match-edge or to establish it correctly in the case this compilation is found to be in error.

38. Quality of Contours: All contours on this manuscript conform to the national map standards of accuracy for a contour interval of twenty feet.


Louis J. Reed, Chief,
Stereoscopic Mapping Section

T-8336

Geographic Names (based on Project
61 Names Report, but
prior to Field Edit

Virginia

James River

Chickahominy River

Chesapeake and Ohio Ry.

U.S. No. 60

State Nos. 5 and 156.

New Kent County

Black Creek District

St. Peters District

Henrico County

(Varina District) - not on map.

Charles City County

(Harrison District) " "

Chesterfield County

(Bermuda District) " "

East Run

Montpelier

County No. 601 (apparently 609 on other road maps)

Salem Church

Salem Run

West Run

Stagg Run (upper section of West Run)

T-8336 (#2)

Stagg Road

Willmord School
(Abandoned)

St. Johns Church

County No. 607

Turkey Island Creek

Turkey Bend

Malvern Hill

Western Run (tribe Turkey I. Cr.)

Bathfield Park Road.

Willis Church

National Cemetery

Warriner Road

Glendale

Glendale School

Longbridge Road

Darbytown Road.

Charles City Road

Hines Road

White Oak Swamp

Hass Creek

Hughes Road

Elko

Elko Union Church.

T-8386 (#3)

● Portuguese Road

Canal Swamp.

White Oak Road

Scandia Road

Huron Road

Windsor Road

Elko Community House

Crumps Swamp

Toe Ink Swamp

Wrights Corner

Long Bridge

● Roxbury

Nance

Bradley Run

Hughes store

Parsons Mill Pond

Possum Run

Mt. Pleasant Church (no school, per names report)

Samarina

Co. No. 602

Samarina Indian Church.

(" " school to be deleted, per names report)

● Union Church

Union School

Pallard ~~the~~ Cemetery (Private)

8336 (# 4)

Allanson Cemetery (private)

Names underlined in
red are those approved
on basis of Project
Names Report. Other
names listed to receive
a further check in field.

11-28-52

L. Heck

FIELD EDIT REPORT
QUADRANGLE T-8336 (Roxbury)
Project CS-289
J. C. Sammons, 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. Trails, to be shown, were checked for delineation and use by walking over them and by utilizing local information.

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 was used to indicate the points of elevations that were used for the vertical accuracy test. No legend is shown on the field edit sheet or photographs.

Field edit information is shown on two double weight matte prints, one discrepancy print and four nine lens 1:20,000 scale photographs numbered 22253, 22254, 22276 and 22277.

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 -- A horizontal accuracy test, composed of a transit and tape traverse, approximately three miles in length, testing seven points of horizontal position was made in the southwest corner of the quadrangle near its junction with the A.M.S. DUTCH GAP Quadrangle. The traverse was quite satisfactory and proves the horizontal position of quadrangle T-8336 to be correct.

One vertical accuracy test was made, approximately $1\frac{1}{2}$ miles south of Roxbury, testing 29 points of elevation with no error greater than $\frac{1}{2}$ a contour interval being found. One test point was allowed for each top or bottom with all other points being directly on the contours. This test in addition to other general testing indicates the map to be of good quality.

54. Recommendations -- None offered.

55. Examination Of Proof Copy -- No one was requested to examine a proof copy of this map

Elgan T. Jenkins
Elgan T. Jenkins,
Cartographic Survey Aid

TOPOGRAPHIC MAPPING

Summary & Abstract of Vertical Accuracy Test

Project No. CS-289 Quad. No. T-8336 Quad. Name Roxbury
Method of Testing Plane Table Profile
Tested by E.T.J. Date 5-29-53 Evaluated by E.T.J.
Contour interval 20 ft. 0.6 M.M. allowable shift at 1:20,000
map or manuscript scale.

29	Total number of points tested
100	% of points within $\frac{1}{2}$ contour interval or better
0	Test points correct within $\frac{1}{2}$ contour interval
0	Test points in error between $\frac{1}{2}$ and full contour interval
0	Test points in error over full contour interval
Δ	Contour Corrected
+	Good Expression

[illegible]

30
U.S. COAST AND GEODETIC SURVEY
BOX 303
PROVIDENCE FORGE, VA.

County Clerk
Charles City County
Charles City, Va.

Dear Sir:

The U.S. Coast and Geodetic Survey is making a field edit survey of various counties of Virginia. A question has arisen concerning the county line between Charles City and Chesterfield.

Would you please inform me if the line is considered the center of James River or not.

Sincerely yours,

Elgan T. Jenkins
Elgan T. Jenkins,
Cartographic Survey Aid

Dear Mr Jenkins.

*I am not positive but
I think the Low water mark is the
County boundry.*

*Yours truly,
J. H. B. Clerk*

REVIEW REPORT T-8336
Topographic Map
18 August 1955

Summary:

T-8336 is one of the 17 standard 7.5-minute quadrangles of PROJECT CS-289-W-1. This quad was compiled on the Reading Plotter at a scale of 1:20,000. It is to be published at 1:24,000 scale by the Geological Survey. A cloth-backed lithographic print of the manuscript at compilation scale and a cloth-backed color print of the published quadrangle, together with the descriptive report, will be filed in the Bureau Archives.

62. Comparison with Registered Topographic Surveys:

Prior surveys are:

430	1:10,000	1853
1438	"	1877
3226	"	1911
7021	"	1946
8089	"	1941-43

A comparison with the most recent of the surveys indicates some changes in the marshy shoreline of James River. T-8336 supersedes all of above surveys in common areas for chart construction or maintenance use.

63. Comparison with Maps of Other Agencies:

Charles City, Virginia 1:62,500 1918, reprinted 1944

T-8336 completely supersedes the NW quarter of the above map.

64. Comparison with Contemporary Hydrographic Surveys: None

65. Comparison with Nautical Charts:

Chart 531 1:20,000 12th Edition 1947

Some shoreline changes as noted under 62, above, should be applied to the chart.

66. Adequacy of Results and Future Surveys:

This map complies with all instructions and with National Map accuracy standards as evidenced by map accuracy tests mentioned in the Field Edit Report.

67. Junctions:

East with T-8335

North with T-8609

South with T-8321 except for the Charles City-County and Chesterfield County line. There is still some question as to the legal location of this line, that

is, as to whether it follows the low water line along the south shore of James River as shown on the adjoining USGS quad "Dutch Gap" (Ed. of 1943) and T-8336 or the center of the river as shown on the 1918 edition of USGS "Charles City" and T-8321. The County Clerk of Charles City County states that he is not positive but is of the opinion the line follows the low water mark. (See note in reply to Field Editor's letter filed in this report)

West with AMS Dutch Gap, 1:25,000.

Edition of 1949 (copied from USGS Dutch Gap, 1:31,680 edition of 1943).

A horizontal position difference of about 2mm along the south half of this sheet edge makes the completion of this junction impractical without exceeding allowable accuracy tolerances. A horizontal accuracy test at the junction proves the accuracy of T-8336. (See 53 of Field Edit Report.)

Reviewed by:

John M. Neal
John M. Neal

APPROVED:

LC Lander
Chief, Review Section
Photogrammetry Division

Max G. Kelt
Chief, Nautical Chart Branch
Charts Division

Actg J. Bull
Chief, Photogrammetry Division

[Signature]
Chief, Coastal Surveys

*Report on application of hydrography
filed with T 8319*