

8344

Diag. Cht. No. 78-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic Quadrangle

Field No. _____ Office No. T-8344

LOCALITY

State Virginia

General locality North of Rappahannock River

Locality Kilmarnock

194 2-B 4

CHIEF OF PARTY

K.T. Adams and R.W. Knox

LIBRARY & ARCHIVES

DATE February 20, 1950

B-1870-1 (1)

8344

DATA RECORD

T- 8344

Quadrangle (II): Irvington

Project No. (II): CS-289-X

Field Office: Washington, D. C. Chief of Party: K. T. Adams

Compilation Office: Washington, D.C. Chief of Party: R. W. Knox

Instructions dated (II III):

February 29, 1944

Aug 24, 1945 (FE)

Copy filed in *Division of* Descriptive

Report No. T- (VI)

Photogrammetry Office Files~~Completed survey received in office;~~

Survey completed in office

July 5, 1945

Reported to Nautical Chart Section;

*July 5, 1945*Reviewed: *8 April 1946* Applied to chart No.

Date:

Redrafting Completed; _____

Registered: *10/4/49*

Published:

1948

Compilation Scale: 1:10,000

Published Scale: *24,000*
1:31,680

Scale Factor (III): 1.00

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): Slaters 1942

Lat.: $37^{\circ} 43' 54.668$ Long.: $76^{\circ} 28' 52.614$

Adjusted

~~Unadjusted~~

State Plane Coordinates (VI): Va South

X = 2,583, 826.21

Y = 513,403.46

Military Grid Zone (VI) A

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
44-C 493-507	1/7/44	13.09	1:24,000	-0.1
44-C 621-637	2/5/44	13.15	1:24,000	0.1
44-C 708-713	2/8/44	12.45	1:24,000	0.0
12658 - 12660	11/28/42	2:23	1:20,000	
12676 - 12678	"	3:03	"	

Tide from (III): Orchard Point (Reference station, Hampton Roads)

Mean Range: 1.4 feet

Spring Range: 1.7 feet

Camera: (Kind or source) USC&GS, Camera "C" 6" Metrogon Lens

Field Inspection by: R. E. Houtrouw

date: March-April, 1944

Contours by H. C. Cravat & J. K. Wilson

date: March-April, 1944

(See sketch in Descriptive Report T-8353

Field Edit by: for area contoured in field.)

date:

Aziel LaFave

Jan 21 - Feb 13, 1946

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

Projection and Grids ruled by (III) Ruling Machine

date: Oct., 1944

" " " checked by: A. L. T.

by S. Rose & J. T.

date:

Control plotted by: J. Henningsen, A. LaFave &

date: Nov., 1944

S. W. Trow

Control checked by: J. Henningsen, & A. LaFave

date: Nov., 1944

Radial Plot by: See Report on Radial Plot for
289-X-1. under T-8353

date:

Detailed by: Multiplex, S. W. Trow & J. P. Webb

date: Sept., 1944

July, 1945

Reviewed in compilation office by: H. R. Brooke

date: 8 April 1946

Manuscript
Elevations on Field Edit Sheet

checked by: against elevations on field photo-

date:

June, 1945

graphs by: S. W. Trow, J. P. Webb & A. LaFave

STATISTICS (III)

Land Area (Sq. Statute Miles): 45.8

Shoreline (More than 200 meters to opposite shore): 31.8 Miles

Shoreline (Less than 200 meters to opposite shore): 44.3 Miles

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 72

Roman numerals 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:

OUTLINE OF OPERATIONS

PROJECT CS 289X

(INCLUDING QUADRANGLE T-8344)

This project, CS 289X, of which T-8344 is a part, originally was part of war mapping project CS 290 which involved the production of 7½-minute topographic quadrangles by photogrammetric methods using nine-lens photographs, but with all contouring by planetable.

In the winter of 1943-4 it was decided by the War Department that all field work would be discontinued July 1, 1944. Since the entire project CS 289 could not be completed by that date, it was subdivided and subproject CS 289X was designated as a test project for topographic mapping by multiplex. Subproject CS 289X was rephotographed with the single-lens camera,, and new instructions for field work were issued February 29, 1944. A copy of these instructions is filed in the Photogrammetric Section.

By arrangement with the War Department, field work on subproject CS 289X was started in March 1944 and continued until some time in June 1944. Commander R. L. Schoppe was in charge of the field party.

The field work accomplished prior to July 1, 1944 on this project included the identification of horizontal control, the establishment of additional horizontal control for the multiplex, the establishment of supplemental levels for the multiplex, field inspection for the clarification of photographic details, and planetable contouring of flat areas along the Rappahannock River which it was assumed could not be satisfactorily contoured on the multiplex.

As originally planned under project CS 289, this area was to have been compiled from nine-lens photographs using the existing triangulation. For control of the multiplex, it was necessary on subproject CS 289X to establish 6 additional triangulation stations and about 66 miles of third-order traverse. A report on the triangulation and a separate report on each traverse line are filed in the Photogrammetric Section.

For vertical control of the multiplex mapping of the entire project CS 289X about 298 statute miles of supplemental levels were run.

The field inspection report for the entire subproject

CS 289X is filed in the Photogrammetric Section.

The planetable contouring of flat areas along the Rapahannock River was accomplished on 1:10,000 scale single-lens ratio prints. This was done to obtain a comparison with contouring on 1:20,000 scale nine-lens photographs on most of the war mapping work. The report on this contouring is contained in the field inspection report.

Compilation of five quadrangles on this project was taken up in the Washington Office in September 1944 and completed in July 1945. Operation of the multiplex was not continuous, the instrument having been taken off of productive mapping for training purposes and the personnel also interrupted on several occasions for other special work. Field edit and completion surveys will be made in 1945 by a field party in charge of Mr. Harland R. Cravat and under the direction of the Chief, Section of Topography, Division of Coastal Surveys.

/s/ B. G. Jones
Chief, Photogrammetric Section
July 17, 1945

Field Inspection
T-8344

The field inspection for the area of T-8344 is covered in the Field Inspection Report, Project 289-X filed as a Special Report in the Division of Photogrammetry General Files.

COMPILATION REPORT

26. Control. - See Compilation Report for project 289-X-1 in descriptive report for T-8353.
27. Radial Plot. - A 1:10,000 scale hand template radial plot with single-lens photographs was used to control Multiplex strips. See compilation report T-8353 for description of radial plot.
30. Mean High-Water Line. - Mean high-water line was field inspected on 1:20,000 scale, nine-lens photographs, numbers 12658 to 12660 and 12676 to 12678. These nine-lens photographs were used to ^{identify} locate the high-water line in the Multiplex models.
31. Low-Water and Shoal Lines. - A distinct line between the shoal areas and deep water shows on the single-lens photographs used for this project. This "shoal line" was plotted with the Multiplex as an aid to the hydrographic party. This "shoal line" is not to be shown on the published quadrangle.
35. Hydrographic Control. - The following ^{aid to navigation} ~~hydrographic~~ stations were located with sextant cuts and plotted with a three-arm protractor:
- Galley Hook Point Light
 - Crab Point Shoal Light
 - Spinhouse Point Shoal Light
 - Corrotoman Point Light

All other ~~hydrographic~~ stations were plotted with the Multiplex. The Multiplex position for Station "LAT" does not agree with sextant angles from two different fixes, the sextant fix being accepted as correct. This station was probably misidentified on the photograph.

S. W. Trow
Cartographer
18 Nov 45

Chart Letter 191 - '46

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

STRIKE OUT ONE

TO BE CHARTED
TO BE DELETED

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.

IRVINGTON, VIRGINIA

April 8 1946

S. V Griffith

Chief of Party.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

GEOGRAPHIC NAMES

Survey No. T-8344

IRVINGTON quadrangle

1	Name on Survey	A	B	C	D	E	F	G	H	K	
	Virginia								USGB		1
✓	Rappahannock River	✓									2
✓	Lancaster County	✓									3
no	Northumberland County	✓									4
✓	Middlesex County	✓									5
✓	Whitestone			District in Lancaster Co.	✓						6
✓	White Chapel		"	"		✓					7
✓	Mantua		"	"							8
no	Wicomico			District in Northumberland County				✓			9
no	Pine Top			District in Middlesex County (only water)	✓						10
✓	Va. 3							✓			11
✓	Va. 200			Northerly from Kilmarnock				✓			12
✓	Va. 222			From Weems to No. 3				✓			13
								✓			14
✓	Taft					376763					15
✓	Whitestone Wharf					"		✓			16
✓	Whitestone					"		✓	USGB		17
✓	Whitestone Church					"		✓			18
✓	Danton Mill					"					19
no	Poplar Neck			(only base on this quad)	"		✓				20
✓	Dymer Creek			(upper part on this quad)	"				USGB		21
	Fleets Island Road					"					22
✓	Kilmarnock					377763		✓			23
✓	Old County Fairgrounds					"					24
✓	Camp Millpond					"		✓			25
✓	Norris Pond					"		✓			26
✓	Camps Prong					377764		✓			27

GEOGRAPHIC NAMES

Survey No.

T-8344

2	Name on Survey	A	B	C	D	E	F	G	H	K
✓	<u>Norris Prong</u> ✓						377764			1
✓	<u>Quarter Cove</u> ✓									2
✓	<u>Browns Creek</u> ✓								USGB	3
✓	<u>Punches Cove</u> ✓									4
✓	<u>Black Stump Road</u> ✓									5
✓	<u>Eastern Branch</u> ✓			(of Corrotoman River)						6
✓	<u>Bells Creek</u> ✓								USGB	7
✓	<u>Hills Creek</u> ✓								USGB	8
✓	<u>Iberis</u> ✓									9
✓	<u>Western Branch</u> ✓									10
✓	<u>West Point</u> o.k.			(origin? not on any reports received by L.H.)						11
✓	<u>Merry Point</u> ✓			apply as a village (pop. 75)						12
✓	<u>Merry Point Road</u> ✓									13
✓	<u>Ottoman Wharf</u> ✓									14
✓	<u>Slaters Corner</u> ✓			(field edit states that Merry Point P.O. nowhere)						15
✓	<u>John Creek</u> ✓									16
✓	<u>Bar Point</u> ✓						376764			18
✓	<u>Yankee Point</u> ✓									19
✓	<u>Myer Creek</u> ✓									20
✓	<u>Slabtown</u> ✓									21
✓	<u>Ball Point</u> ✓									22
✓	<u>Town Creek</u> ✓									23
✓	<u>Millenbeck</u> ✓									24
✓	<u>Whitehouse Creek</u> ✓									25
✓	<u>Moran Wharf</u> ✓								USGB	26
✓	<u>Moran Creek</u> ✓									27

GEOGRAPHIC NAMES

Survey No. T-8344

GEOGRAPHIC NAMES											
Survey No. T-8344											
3 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			
Taylor Creek					376764					1	
John Neck	✓									2	
Christ Church	✓									3	
Pitmans Corner	✓	(lat. 37 40.5, long. 76 24.9)								4	
Corrotoman River	✓									5	
Corrotoman Point	✓									6	
Wharton Grove Camp	✓									7	
Orchard Point	✓									8	
Weems	✓									9	
Weems Road										10	
Carter Creek	✓									11	
Carter Cove	✓									12	
Church Prong	✓									13	
Ashburn Cove	✓									14	
Irrington	✓									15	
West Irrington	✓									16	
Eastern Branch (of Carter Creek)	✓									17	
Bridge Cove	✓									18	
Wilders Cove										19	
Peachorchard Cove	Too small									20	
Sams Cove	✓									21	
Old Mill Cove	✓									22	
Dunton Cove	✓									23	
Currell Cove	✓									24	
Dump James Cove										25	
Jacks Cove										26	
Yopp Cove	✓									27	

M 234

GEOGRAPHIC NAMES

Survey No. T-8344

GEOGRAPHIC NAMES										
Survey No. T-8344										
Name on Survey										
	A	B	C	D	E	F	G	H	K	
Cherry Point	✓									1
Gey Point Ferry Dock	✓									2
										3
Names of lighthouses used in Descriptive Report:										4
Spinhouse Point Shoal Light										5
Crab Point Shoal Light										6
Galley Hook Point Light										7
Corrotoman Point Light										8
West Point Light										9
N.B. many of the minor features are new, being mainly in the Field Edit Report. Various other names not on the old quadrangles are from the initial special names investigation of this area, marked on a copy of the "Kilmarnock" quadrangle, now upstairs.										10
										11
										12
Crab Point										13
Bar Point Light										14
Whitestone Church	✓									15
Wesley Church	✓									16
Sharon Church	✓									17
Merry Point School	✓									18
Merry Point P O	✓									19
Campbell Mem. Church	✓									20
Claybrooks Church	✓									21
Christ Church	✓									22
Big Branch										23
										24
										25
										26
										27

FIELD EDIT REPORT

T-8344, Kilmarnock quadrangle, (3737.5/7622.5/7.5)

Project CS289-X

Harland R. Cravat, Chief Of Party

The field edit survey was made by Mr. Azriel LaFave, Photogrammetric Engineer, from January 21, 1946 to February 13, 1946 in accordance with the Director's Field Edit Instructions dated August 24, 1945. During this time, vertical accuracy tests were also made.

46. Methods

The field edit man rode in a truck over every passable road in the quadrangle, checking roads, buildings, drainage, and contours. Roads which were impassable at the time were traversed on foot. Geographic names were checked with posted signs or with local residents. Political boundaries were checked by consulting the Lancaster County Clerk's Office.

All results of the field edit survey are shown on the field edit sheet or discrepancy overlay.

The following information resulting from the field edit survey is reported by item numbers, supplementing information under corresponding item numbers in the 1944 field inspection report for Project CS 289-X or the compilation report.

5. Vertical Control.

It is recommended that U.S.G.S. B.M.36, 1916, be deleted. A thorough search was made by the field edit party without finding it. This information will be submitted on Form #685.

6. Contours and Drainage.

There was one major change made in contours and drainage during Accuracy Test #2a (See Item 48, Accuracy Test #2). There were other minor changes made in contours.

Much of the drainage is at tide-water level. In the northern and eastern portions of the quadrangle, the streams are smaller and fit into the contour pattern.

9. Wharves and Shoreline Structures.

The wharves and shoreline structures are, generally, in poor condition. In this vicinity, public and commercial piers no longer serve the purpose that they once did as most freight is handled by motor truck. For this reason, most of them will probably never be repaired.

11. Landmarks and Aids To Navigation.

Ball Point Light was added to the field edit sheet, its position being determined by plane-table cuts.

All other aids were checked by plane-table cuts and seemed to be in their proper position as shown on Chart #534. (See also item 45)

Station WAR, 1944, is a tall elevator housing at the fertilizer plant shown on the field edit sheet at Lat. $37^{\circ}37\frac{1}{2}'$ and Long. $76^{\circ}24'$. It is an excellent landmark as it can be seen from far out in Chesapeake Bay and as far north as Corrotoman Lt.

14. Road Classification.

Roads were classified according to the Director's Instructions dated June 30, 1945. A few roads were changed from "4" to "3" in accordance with the above instructions.

In the vicinity of Lat. $37^{\circ}41\frac{1}{2}'$ and Long. $76^{\circ}25'$, there are several woods roads marked trails. These are old woods roads which are no longer in use. They are especially prominent on the photographs because this area has been recently burned over, thus making the roads show plainly through the trees.

15. Bridges

Sizable bridges are so labeled.

There are no bridges over navigable waters.

16. Buildings and Structures.

The general condition of dwellings in this quadrangle and in quadrangle T-8343, is below that on other quadrangles edited by this sub party. In order not to delete an unduly large number of buildings, which will continue to be used as dwellings, the field edit party left on many dwellings which in other quadrangles would have been deleted. Apparently the field inspection party had this in mind as they seem to have followed this procedure.

17. Boundary Monuments and Lines.

There were no subdivisions made any farther than magisterial districts.

The status of precincts has been discussed in the field edit report on quadrangle T-8353.

18. Geographic Names.

The following names are supplied by these men:

Willard Ashburns Commercial Fisherman Irvington, Va.
Walter Jones " " "
Bernard Willing Merchant " "

Bridge Cove	Jacks Cove
Church Prong	Old Mill Cove
Dump James Cove	Feach Orchard Cove
Duntons Cove	Sams Cove
Ashburns Cove	Wilders Cove
Currells Cove	Yopps Cove

Since this immediate vicinity is relatively thickly populated, each small cove has acquired a distinctive name. See field edit sheet for their proper locations.

The word "Prong" seems to be a word of local useage.

The two men mentioned below agree on the following names:

J. W. Pitts	Ferry Boat Operator	Merry Point, Va.
John Ball	Oysterman	Merry Point, Va.

Funches Cove	Camps Prong
Quarter Cove	Morris Prong
Johns Creek	

"Browns Creek" is the name of the entire body of water from its head out to the Eastern Branch of the Corrotoman River.

45. Comparison with Nautical Charts.

Comparison was made with Chart 534. The fog horn shown north of Cherry Point is no longer there. All fixed and floating aids to navigation were checked by plane-table cuts and seem to be in the positions as indicated on the chart.

The topography and planimetry as shown on this quadrangle should supercede the planimetry and topography that is shown on Chart 534.

48. Accuracy Tests.

TEST 1

Began at "A" and ended at "B"
Approximate location- Lat. 37 42 $\frac{1}{2}$ ' Long. 76 24 $\frac{1}{2}$ '
Horizontal Closure 0.5mm; Vertical Closure, 0.3.

TEST 1, CONT'D

17 points tested
 14 points in error from 0 to $\frac{1}{2}$ contour interval
 2 " " " " $\frac{1}{2}$ " full " "
 1 " " " over a full contour interval
 82.3% of points tested within $\frac{1}{2}$ contour interval

TEST 2

Began at "C" and ended at "D"
 Approximate Location- Lat. $37^{\circ} 43\frac{1}{2}'$ Long. $76^{\circ} 29'$
 Horizontal Closure, 0.5mm: Vertical Closure, 1.5"

18 points tested
 12 points in error from 0 to $\frac{1}{2}$ contour interval
 3 " " " " $\frac{1}{2}$ " full " "
 63 " " " over a full contour interval
 67% of points tested within $\frac{1}{2}$ contour interval

The position of a draw was corrected during this test.
 In arriving at the above results, the apparent vertical error has not been decreased by assuming a horizontal displacement within the permissible horizontal error for the map scale.

TEST 3

Began at "E" and ended at "F".
 Approximate location- Lat. $37^{\circ} 44'$ Long. $76^{\circ} 23\frac{1}{2}'$
 Horizontal Closure- no measurable error: Vertical Closure 0.1"

17 points tested
 15 points in error from 0 to $\frac{1}{2}$ contour interval
 2 " " " " $\frac{1}{2}$ " full " "
 0 " " " over a full contour interval
 88% within $\frac{1}{2}$ contour interval.

Average Results Of Three Tests:

52 points tested
 41 points in error from 0 to $\frac{1}{2}$ contour interval
 7 " " " " $\frac{1}{2}$ " full contour "
 4 " " " over a full contour interval
 78.7% of points tested in error less than
 $\frac{1}{2}$ contour interval.

See Washington office
 Review at back.

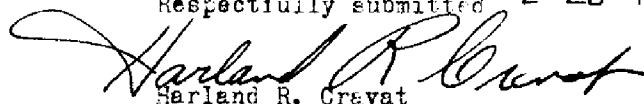
49. Review Of First Proof.

Mr. C. M. Keene of Ditchley, Va. has consented to review the first proof.

Mr. Keene is an engineer by profession and had charge of the installation of the power lines in this vicinity. In this way, he has become very familiar with the roads in this quadrangle. He is also very familiar with the hydrography of the Rappahannock River. He is, at present, operating an oyster fishing and packing business and is personal and business manager for Mrs. E. I. DuPont when she is at her Ditchley home.

It is the belief of the field edit men that he is the most competent of all reviewers whose names have been turned in on Project CS 229-X.

Respectfully submitted 2-28-46


Harland R. Cravat
Photogrammetric Engineer

P

Review of Survey No. T-8344.

Project CS-289X-1

Irvington, Va.

26. Control.

Picture points used as substitute stations have been shown on the manuscript as triangulation stations, but will not be shown on the printed quadrangle.

One (1) U. S. Coast and Geodetic Survey triangulation station was plotted on this map during the review, viz, CHERRY 3, 1944.

28. Detailing.

Using a film positive as a manuscript for the assembled quadrangle, all detail corrections made during the review were shown as follows: 1 - green ink, woodlands; 2 - blue ink, streams; 3 - red ink, all other corrections. This method was adopted to facilitate the correction of the various plates which were in the process of smooth drafting.

A drafting overlay was also prepared to assist the smooth drafting operation.

34. Landmarks and Aids to Navigation.

Under subheading 11 of the Field Edit Report, station WAR, 1944 is considered to be an excellent prospective landmark. The reviewer has, therefore, prepared Form 567 to have this landmark charted.

35. Hydrographic Control.

The names of the following hydrographic and topographic stations, all dated 1944, have been shown on the manuscript exactly as indicated on their corresponding Forms 524. The names shown in parentheses indicate the names as shown on the drafting overlay.

✓Ack	(S. Gable)	"standard disc"
✓Ape	(Ape)	
✓Bek	(Stack)	
✓Fan	(E. Tower)	
✓Fer	(S. Gable)	
✓Grey	(Light)	

✓Ham	(S. Gable)	
✓Har.	(E. Gable)	
✓Irv.	(Tank)	
✓Lan	(W. Chimney)	
✓Lat	(E. Gable)	
✓Liv	(N. Gable)	
✓Man	(S. Gable)	
✓Ola	(Cupola)	
✓Pie	(Pie)	"standard disc"
✓Pie	(W. Gable)	
✓Pop	(S. Gable)	
✓Ran	(W. Gable)	
✓Rat	(Roof)	
✓Taf	(S. End Pier)	
✓Tay	(S. Gable)	
✓Wad	(S.W. Gable)	
✓War	(Elevator, S. Gable)	"Rec. Landmark"
West Point Light	(Light)	
✓Will	(N. Gable)	

44. Comparison with Existing Topographic Quadrangles.

All planimetric and topographic details on the following surveys, in areas common to survey T-8344, are superseded by that survey:

U.S.C. & G.S.	T- 659	1:10,000	1857
	T- 660	1:10,000	1857
	T- 661	1:10,000	1857
	T-2870	1:20,000	1907-8
	T-2957	1:20,000	1908-9

U.S.E.	Kilmarnock, Va. 15'	1:62,500	1942
U.S.G.S.	Kilmarnock, Va. 15'	1:62,500 Edition 1917,	
		Reprint 1942	

The county line between Lancaster and Middlesex Counties was transferred from this quadrangle to survey T-8344 during the review.

45. Comparison with Nautical Charts.

The following nautical charts have been compared with T-8344:

534	1:40,000	1933
1223	1:80,000	1943

T-8344
- 3 -
T-8673 is
Hayden Island
Oregon

T-8673 has not been applied to the nautical charts as of the date of this review. T-8673 should supersede the topographic details now shown on the charts, except that the bluff symbols along the shoreline should be retained on the charts where the elevation is less than 20 feet.

48. Accuracy Tests.

The vertical accuracy tests discussed in the field edit report and shown on the field edit sheet have been studied and analyzed during this review. After allowing a horizontal shift of 1/2 millimeter on the published map, or 0.76 millimeter on the manuscript, it was found that the tests showed no contours to be in error over a full contour interval and slightly less than 10 per cent of the points tested to be in error over 1/2 contour interval. Therefore, the tests show the quadrangle to be within the National Accuracy Standards.

These tests were made in the most difficult areas of the quadrangle.

Since this was one of the first quadrangles contoured by multiplex, the test areas were reworked on the multiplex as training for the operators.

This map complies with National Standards of Map Accuracy.

Reviewed by:

Inspected by:

H. R. Brooks

Harold R. Brooks *R.H.M.*
Photogrammetrist 8 Apr. 1946

S. V. Griffith

S. V. Griffith
Chief, Review Section

APPROVED BY:

B. J. Jones 10/49

Technical Assistant to the
Chief, Div. of Photogrammetry

H. C. Edmonston

Chief, Nautical Chart Br.
Division of Charts

O. S. Reading

Chief, Div. of Photogrammetry

K. G. Crosby

Chief, Div. of Coastal Surveys
1248