

8172

8172

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Air Photo. Compilation
Field No. 71	Office No. T-8172
LOCALITY	
State	Virginia
General locality	Eastern Shore
Locality	Exmore
194 2	
CHIEF OF PARTY	
Lieut. Comdr. Kenneth A. [unclear] by	
Lieut. Comdr. Francis [unclear]	
LIBRARY & ARCHIVES	
DATE September 10, 1945	

DATA RECORD

T-8172

Quadrangle (II): Exmore

Project No. (II): CS-278-C

Field Office: Salisbury, Md.

Chief of Party: W. D. Patterson

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

Instructions dated (II III): 3/4/42

Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 12/8/42

Reported to Nautical Chart Section: 1/26/45

Reviewed: 8/18/43

Applied to chart No.

Date:

Redrafting Completed: 1/13/44

Registered: 9/4/45

Published: 8/10/44

Compilation Scale: 1:20,000

Published Scale: 1:31,680

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927

Datum Plane (III): M.S.L.

Reference Station (III): Exmore 1942

37°32' 21.990" (677.9)

75°49'23.660" (580.9)

Lat.: ~~37°32'22.000" (678.3 m.)~~Long.: ~~75°49'23.658" (580.8 m.)~~

Adjusted

Unadjusted

State Plane Coordinates (VI): Virginia South Zone.

None computed for datum station

X =

*o.k.
g.N.S.*

Y =

Military Grid Zone (VI)

"A"

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8584	4-13-42	12:51	1:20,000	No data
8564	"	12:11	"	
8565	"	12:12	"	
8566	"	12:13	"	
8544	"	12:34	"	
8545	"	12:36	"	

Tide from (III):

Mean Range:

Spring Range:

* Camera: (Kind or source) U.S.C. & G.S. 9 lens (Focal length $8\frac{1}{4}$ ")

Field Inspection by: A.M. Jylha, H.R. Cravat, C.C. Fryer, date: June & July
C. Hanavich, Photo Aids 1942

Field Edit by: *Wendell Bever, Photo Aid* date: *Dec-1942*

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

Projection and Grids ruled by (III) Washington Offc. date: 9-17-42

" " " checked by: " " date:

Control plotted by: C. L. Bailey, Photo Aid date: 9-22-42

Control checked by: L. H. Zollars, Photo Aid date: 9-22-42

Radial Plot by: Tampa Office Personnel date: 9-29-42

Detailed by: H. W. Thune, Photo Aid date: Oct.-Nov.
1942

Reviewed in compilation office by: date: Nov.-Dec. '42
A.L. Kidwell, Jr. Topo. Engr.; J.A. Giles, Prin. Photo Aid

Elevations on Field Edit Sheet
checked by: *Wendell Bever, Photo Aid* date: *Dec-1942*

STATISTICS (III)

Land Area (Sq. Statute Miles): 56.16

Shoreline (More than 200 meters to opposite shore): 9.6 Stat. Miles

Shoreline (Less than 200 meters to opposite shore): 32.3 Stat. Miles

Number of Recoverable Topographic Stations established: 1

Number of Temporary Hydrographic Stations located by radial plot: 5

Leveling (to control contours) - miles: 57.7 *miles*

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:

COMPILATION REPORT
TO ACCOMPANY
SHEET NO. T-8172
Exmore Quadrangle

CONTROL

All of the control stations on the sheet were held to during the radial plot and checked satisfactorily.

RADIAL PLOT

A discussion of the radial plot of which this sheet was a part is included in the descriptive report for sheet T-8173.

* As a result of a horizontal accuracy test traverse T-8172, T-8171, T-8174, T-8175, as a unit, were replotted, resulting in changes in position in the S.W. corner of T-8172.

DETAILING

The photographs and field inspection were satisfactory for the office detailing except that in the area in the southeast corner, including Bell Neck and Upshur Neck did not have sufficient field inspection for road and vegetation classification. During the compilation the draftsman noted that in the Field Inspection, there was no apparent systematic method of differentiating between roads of class 4 and 4-U.P., and in many places there were obvious errors such as roads classified as 4 U.P. which serve 4 to 6 farms, and the branch roads from these main roads were often classified as Class 4 roads. When such obvious errors were observed, the draftsman was directed to use his own judgment in classifying these roads. As a result it is suggested that all 4 and 4 U.P. roads be reclassified in the field.

In delineating the coast line the draftsman differed in several places with the field inspection, for example in places the field inspection showed a light shore line where inshore no marsh was apparent, and in places a light shore line was shown surrounding areas obviously covered by high water. When such features were observed, the draftsman used his own judgment, assisted by the use of the stereoscope. To show these discrepancies a discrepancy overlay accompanies this sheet which shows the shore line as delineated by the field inspector.

Along the Pennsylvania Railroad, within the towns of Exmore, Painter and Keller, the draftsman was unable to determine accurately the limits and detail of the railroad yards

Three short stretches of power line cross portions of this sheet. The draftsman was unable to trace out these lines with any continuity.

All of these omissions and discrepancies should be checked in the field and this information added to the survey sheet.

In the compilation, B.M. C-86 was not shown because it is located too close to B.M. R-33, which lies within the town of Painter, between State Highway No. 13 and the railroad right-of-way.

SUPPLEMENTAL DATA

The only supplemental data used in the compilation of the sheet was a sketch of the waterfront and wharves at Willis Wharf, which was drawn by the field inspectors on the back of one of the single lense field photographs.

LANDMARKS AND AIDS TO NAVIGATION

No unusual features were noted which would serve as landmarks. No aids to navigation are located within the limits of this sheet.

HYDROGRAPHIC CONTROL

All recoverable hydrographic and topographic stations suitable for the control of hydrographic surveys are recorded on Form 524 cards.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

The manuscript was compared with the U. S. Army Engineers topographic map of the Onancock Quadrangle which is on a scale of 1:62,500. The only discrepancy noted, except for some of minor importance, is in the southeast corner where the marsh area along the Little Machipongo River, between Bell Neck and Upshur Neck has changed considerably with some marsh islands disappearing and some new ones forming. This also applies to the region around Mareland Swamp.

COMPARISON WITH NAUTICAL CHARTS

This sheet was compared with U.S.C. & G. S. Charts 1221 and 1223, (scale 1:80,000) published June 1938. Any discrepancies are too slight to be distinguishable on the small scale charts compared.

Respectfully submitted,

Howard W. Thune

Howard W. Thune,
Photogrammetric Aid

Forwarded by:

Kenneth G. Crosby
Kenneth G. Crosby,
Chief of Party....

FIELD EDIT REPORT
Quadrangle T-8172
Project CS-278-C
F. L. Gallen, Chief of Party

1. The area included within this quadrangle is evenly distributed between cultivated and heavily wooded areas. Some marshland is present along the Little Machipongo River. Water areas are almost absent from the sheet. The land is undulating but comparatively flat.
14. Roads are classified as required by the instructions. Most roads classified, by the compiler were correctly classified.
15. Bridge classification was carried out according to instructions.
16. Buildings are classified according to instructions.
17. Political boundaries were obtained from maps *furnished by the Census Bureau* ~~issued by the Virginia State Roads Commission~~ and were verified in the field. ✓
18. Geographic names: Refer to Geographic Names Report for Project CS-278-C.
46. Field edit consisted of visual inspection of the area. Where necessary taped distances were used in location. All additions and deletions and corrections were made on the map manuscript and later transferred to the smooth sheet after the field work had been accomplished.

The inking on the field edit sheet was done in accordance with the following scheme:

<u>FEATURES</u>	<u>COLOR</u>
Additions, elevations, beacons, classification	Black
Water culture	Blue
Deletions	Green
Political boundaries	Purple

47. The location of the detail is believed to be accurate and complete. However, the horizontal accuracy test (see sheet attached with this report on the tabulation of test points) is not within the requirements of the instructions.† There appears to be a slight error in the plotting of Triangulation Station TANKARD - 1942,* on map manuscript T-8175.
48. A report of the horizontal accuracy test for this quadrangle is included with this report.

* Plotting of Tankard corrected.

† A new template plot was made in the Washington office, and the sheets redetailed where necessary.

- 2 -

For vertical accuracy test refer to sheet T-8174. Both sheets were contoured by the same party.

Submitted by

Wendell Bever
Wendell Bever,
Photogrammetric Aid

Approved by

F.L. Gallen

F.L. Gallen, Chief of Party

(36)

TESTS FOR HORIZONTAL ACCURACY
QUADRANGLE NO. T-8172
PROJECT CS-278-C

This test consists of a traverse between Triangulation Station EXMORE - 1942 and Triangulation Station TANKARD - 1942. The traverse is 10.80 miles in length and contains 22 test points; 7 of which are within the boundaries of this quadrangle. The traverse closure is one part in 11, 970 and a discrepancy 1.451 meters was adjusted through the traverse. The test points are referred to in the computations as P. P. (Photograph point number) and the test points are scaled from the map manuscript and referred to as M. M. No.

TABULATION OF TEST POINTS

Description of Point	Test Point Number	Lat.	Long.	Difference in mm.
Inter. of road & road, 90 degrees	P. P. No. 1	37-32-98.2	75-49-610.2	
	M. M. No. 1	37-32-98.0	75-49-612.7	.365
Inter. of road & road, 85 degrees	P. P. No. 2	37-31-1483.9	75-49-562.3	
	M. M. No. 2	37-31-1477.1	75-49-565.6	.378
Inter. of road & road, 90 degrees	P. P. No. 3	37-31-1117.7	75-49-741.5	
	M. M. No. 3	37-31-1119.5	75-49-744.6	.180
Center of house facing road	P. P. No. 4	37-31-696.5	75-49-939.8	
	M. M. No. 4	37-31-697.2	75-49-925.8	.703
Inter. of road & road, 85 degrees	P. P. No. 5	37-31-05.1	75-49-1281.5	
	M. M. No. 5	37-31-12.0	75-49-1283.5	.608
Inter. of road and road, 80 degrees	P. P. No. 6	37-30-1060.3	75-50-227.3	
	Not compiled			
Inter. of road & road, 85 degrees	P.P. No. 7	37-30-221.9	75-50-668.7	
	M.M. No. 7	37-30-227.6	75-50-669.5	.288

A new plot was made as a result of this accuracy test.

It may be noted that test point number 6 was not compiled; this point could not be accurately located on the compilation. The remainder of the test points are well-defined points except for test point number 4; this latter test point and test point number 5 exceed the allowable error of .5 mm.

Submitted by:

Charles Hanavick

Approved by:

F. L. Gallen, Chief of Party

~~Onancock, Va.~~

Jan. 12, 1943

The positions given have been checked after listing

R. J. Gallen

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 date 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 NAME LIST FOR T-8172

✓ Ames Ridge
✓ Bacon Hill
✓ Bay Side Road
✓ Belle Haven
✓ Belle Haven Station
✓ Bell Neck
✓ Bell Neck Swamp
✓ Boggs Gut
✓ Boston
✓ Cats Bridge
✓ Cedar View Wharf
✓ Coal Kiln
✓ Coal Kiln Branch
✓ Coal Kiln Crossing
✓ Craddockville
✓ Curratuck Creek
✓ Exmore
✓ Fairview Neck
✓ Fishers Cove
✓ Fishers Point
✓ Hadlock
✓ Hells Island
✓ Keller *Great*
✓ Little Machipongo River
✓ Mappsburg
✓ Middlesex
✓ Miles Wharf
✓ Moreland Swamp
✓ Mt. Zion
✓ Nandua Creek *Nassawadox Creek*
✓ Occohannock Creek *Old Mill Branch*
✓ Painter
✓ Parting Creek

✓ Pennyville
✓ Red Hill
✓ Red Hill
✓ Rue Wharf
✓ Savage Town
✓ Sea Side Road
✓ Shields *Shields wharf*
✓ Shields Cove
✓ Shields Creek
✓ ~~Shields Point~~
✓ Taylors Creek
✓ T.B. Crossroads
✓ The Oaks
✓ Upshur Neck
✓ Wardtown
✓ Wescotts Cove
✓ Willis Wharf
✓ Youngs Point

✓ *Upshur Bay*

GEOGRAPHIC NAMES IN REPORT BUT NOT FOUND ON
COMPILATION

Old Mill Branch (could not be located on the compilation)

T-8172

No. 1

Remarks.

Decisions

1		375757
2	Pending with USGB; <i>decision for Machipongo R</i>	373756-58
3		375757
4	Apply this name pending USGB decision with respect to Little Machipongo River; <i>decision for Parting creek</i>	"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		374759
17		" USGB
18	Officially adopted spelling of name	375758
19		
20		375758
21		"
22		"
23		"
24		"
25	Separate community	"
26	Off limits this quadrangle	"
27	" " "	"
M 234		

GEOGRAPHIC NAMES

Survey No. T-8172

EXMORE quadrangle

No. 1 Name on Survey

	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
<u>Upshur Neck</u>	✓									1
<u>Great Machipongo River</u>	✓									2
<u>Bell Neck</u>	✓									3
<u>Parting Creek</u>	✓									4
<u>Mappsburg</u>	✓									5
<u>Painter</u>	✓									6
<u>Red Hill</u>	✓									7
	(small settlement)									
<u>Coal Kiln Crossing</u>	✓									8
<u>Mt. Zion</u>	✓									9
	(small settlement)									
	and church									
<u>Coal Kiln</u>	✓									10
	(reported to have 100 population)									
<u>Coal Kiln Branch</u>	✓									11
<u>Cats Bridge</u>	✓									12
	(bridge and about 6 houses)									
<u>Moreland Swamp</u>	✓									13
<u>Bell Neck Swamp</u>	✓									14
<u>Upshur Bay</u>	✓									15
<u>Occohannock Creek</u>	✓									16
<u>Nassawadox Creek</u>	✓									17
<u>Accomack County</u>	✓									18
<u>Northampton County</u>	✓									19
<u>Willis Wharf</u>	✓									20
<u>Hadlock</u>	✓									21
<u>Exmore</u>	✓									22
<u>Wardtown</u>	✓									23
<u>Belle Haven</u>	✓									24
<u>Belle Haven Station</u>	✓									25
<u>Morley Wharf</u>										26
<u>Davis Wharf</u>										27

W

T-8172

No. 2

Remarks

Decisions

1		375758
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		376757
19		"
20		376758
21		"
22		"
23	Pending with USGB Off limits this quadrangle	"
24		"
25		" USGB
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8172

No. 2

Name on Survey

	A	B	C	D	E	F	G	H	K	
<u>Shields Wharf</u>	✓									1
<u>Shields</u>	✓									2
<u>Craddockville</u>	✓									3
<u>Red Hill</u>	✓		hill, landmark)							4
<u>The Oaks</u>	✓		(small settlement)							5
<u>T.B. Crossroads</u>	✓		(settlement of about 200, according to name's report)							6
<u>Old Mill Branch</u>			too small to label							7
<u>Bacon Hill</u>	✓		(colored suburb of Exmore)							8
<u>Rue Wharf</u>	✓		(active wharf and about 6 houses)							9
<u>Young Point</u>	✓									10
<u>Wescott Cove</u>	✓									11
<u>Miles wharf</u>	✓									12
<u>Fisher Point</u>	✓									13
<u>Fisher Cove</u>	✓									14
<u>Shields Cove</u>	✓									15
<u>Shields Creek</u>	✓									16
<u>Hells Island</u>	✓									17
<u>Middlesex</u>	✓		(small settlement)							18
<u>Savage Town</u>	✓		(" ")							19
<u>Keller</u>	✓									20
<u>Ames Ridge</u>	✓		(about 20 houses)							21
<u>Cedar View Wharf</u>	✓									22
<u>Nandua Wharf</u>										23
<u>Nandua Creek</u>	✓									24
<u>Curratuck Creek</u>	✓									25
<u>Boston</u>	✓		(about 250 population, extending 2 miles)							26
<u>Pennyville</u>	✓		(small settlement)							27

T-8172

No. 3

Remarks

Decisions

1		376758
2		"
3		"
4		"
5		Railway Guide
6		
7		
8		
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27		

GEOGRAPHIC NAMES

Survey No. T-8172

No. 3
Name on Survey

	A. On Chart No.	B. On previous survey No.	C. On U. S. quadrangle Maps	D. From local information	E. On local Maps	F. P. O. Guide or Map	G. Rand McNally Atlas	H. U. S. Light List	
Boggs Gut	✓								1
Fairview Neck	✓								2
Taylor Creek	✓								3
Pennsylvania R.R.	✓								4
U.S. Highway No. 13	✓								5
State Highways Nos.	600	601	602	603	604	605	606	607	6
	618	654	660	178	183	181	1204	1201	7
Bay Side Road	✓	(this is state highway No. 178)					1200	1202	8
Sea Side Road	✓	(this is State Highway No. 600)							9
Pungoteague (political district)									10
Franktown (" ")									11
									12
									13
									14
									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

Names entered
by L. Heck 2/1/43

RECORDS

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

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.
published quadrangle at 1:20,000 scale.
Black and white cloth-mounted copy of the ~~map~~ ^{published quadrangle} manuscript. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For ~~political boundaries,~~ woodland, ~~marsh,~~ and ~~swamp limits,~~ refer to the published quadrangle for the finally adopted positions. outlines

Descriptive Report.

Nautical Charts

Filed in the Photogrammetric Section - Surveys Branch

Field inspection photographs.

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

Field edit sheet.

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

Supplementary traverse and level records.

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

Reproduction proof.

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

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

Original celluloid manuscript.

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

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

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

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

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

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

Delivered to the Army Map Service in accordance
with the contract

Film negatives and film positives of the color
separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

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

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

This quadrangle, together with similar adjoining maps produced under Project C.S.278-C, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

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

FIELD SURVEYS

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

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, drive-ways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the ~~Bureau of~~ Tampa Photogrammetric Office.

FIELD EDIT

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

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

PROCESSING IN THE WASHINGTON OFFICE

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

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

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8172

EXMORE QUADRANGLE

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

Horizontal and Vertical Accuracy Refer to page 3b of this Descriptive Report for a copy of the results of the horizontal accuracy test. Seven points were tested, two of them were found to be in excess of 0.5 mm. The maximum displacement was 0.703 mm. The nearest vertical accuracy test was performed on the field edit sheet for quadrangle T-8174. (These figures are prior to the statement made on the next page.) See page 2.

Previous Surveys

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

T-1200	1:20,000	1871	
T-1204	1:20,000	1871	
T-2654	1:20,000	1903-04	
T-2663	1:20,000	1904	
Onancock	1:62,500	1919	U.S.E.

Comparison with Nautical Charts Nos. 1221 and 1223

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

A wreck shown on this quadrangle just offshore of the east bank of Occohannock Creek could not be found on the charts. It is, however, apparent on the single and nine lens photographs.

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

As a result of the horizontal accuracy test over this quadrangle, a new templet plot was laid in this area. Numerous main and secondary radial points were then cut in on a new base sheet for this quadrangle. These points were transferred to a red-line acetate print of the original compilation. The areas in error were then redetailed or corrected accordingly.

Reviewed 8/18/43 By John H. Stewart
under direction of D. H. Benson

Inspected by B. G. Jones B.G. Jones 8/31/43

Examined and approved:

Charles Pierce
Chief, ~~Surveys Branch~~

K.T. Adams
Chief, Topography Section

J.S. Borden
Chief, Div. of Charts

Rogers B. Egan
Actg Chief, Div. of Coastal
Surveys