

6333

Graphic Control

Graphic Control

Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. "A"
<div style="border: 1px solid black; padding: 5px; text-align: center;">U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES JUL 29 1935</div>	
State Dist. No. Maryland	
LOCALITY	
Chesapeake Bay	
Balliston Point to Turkey Point to Balliston Point	
Project No. HT-175	
1935	
CHIEF OF PARTY	
J.C. Partington	Jr. H. & G.E.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

JUL 29 1935

REG. NO.

Acc. No.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "A"

REGISTER NO.

6335

Graphic Control

Graphic Co.

State. Maryland

General locality. Chesapeake Bay

Locality. ~~Balliston Point to~~ Turkey Point to Balliston Point²⁸

Scale. 1:10,000 Date of survey March-July, 1935

~~Vessel~~ Photo Compilation Party # 25

Chief of party J.C. Partington

Surveyed by J.C. Partington and D.J. Batte

Inked by D.J. Batte

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated March 14, 1934

Remarks: Undertaken to supplement air photo compilation of this area.

-STATISTICS-

on

TOPOGRAPHIC SHEET, FIELD NO. "A"

	<u>BY</u>	<u>FROM</u>	DATE <u>TO</u>
PROJECTION	D.J. Batte	3-11-35	3-11-35
PROJECTION CHECKED	<i>J.W. Seager</i> J.W. Seager	3-12-35	3-12-35
CONTROL PLOTTED	D.J. Batte	3-12-35	3-12-35
CONTROL CHECKED	B.W. Waltrup	3-12-35	3-12-35
SURVEYED	J.C. Partington D.J. Batte	March - July 1935 (20 Days Total)	
INKED	D.J. Batte	March - July 1935 (4 Days Total)	
LENGTH OF SHORELINE (more than 200 m. from nearest opposite shore) 7.07 Statute Miles.			
LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide) 4.31 Statute Miles.			
LENGTH OF ROADS 5.06 Statute Miles.			
GENERAL LOCATION Maryland, Chesapeake Bay.			
LOCATION Middle River: Sue Creek and Browns Creek.			
DATUM North American 1927			
STATION	Broring 1933 r'34	Latitude: 39° 17' 07.110" = 219.3 m. Longitude: 76° 22' 58.175" = 1393.8 m.	

Office Adjusted Computations.

TOPOGRAPHIC SHEET "A"

CONTROL DATA

<u>Station</u>	North American 1927 Datum			
	<u>°</u>	<u>'</u>	<u>"</u>	<u>m.</u>
Clay 1934	39	14	50.666	(287.9) 1562.4
	76	24	56.579	(82.2) 1356.9
Craighill Channel Rear Range Light 1890 r'34	39	13	44.108	(490.1) 1360.2
	76	23	41.074	(454.0) 985.2
Broring 1933 r'34	39	17	07.087	(1631.8) 218.5
	76	22	58.179	(43.6) 1394.4
Flagpole Sue Id. 1935	39	17	20.317	(1223.8) 626.6
	76	23	45.544	(340.5) 1091.6
Hart 1934	39	14	43.136	(520.1) 1330.2
	76	23	01.163	(1411.2) 27.9
Hawk 1934	39	15	45.983	(432.3) 1418.0
	76	23	57.576	(58.1) 1380.6
Light Bowley Bar 1934	39	17	40.55	(599.8) 1250.5
	76	23	06.53	(1281.5) 150.5
Miller 1934	39	15	31.976	(864.2) 986.1
	76	21	26.792	(796.3) 642.4
Noel 1935	39	17	52.041	(245.4) 1604.9
	76	24	05.413	(1308.3) 129.7

All above stations computed directly on N.A. 1927 Datum.

DESCRIPTIVE REPORT

To Accompany

TOPOGRAPHIC SHEET "A"

Balliston Point to Turkey Point, Md.

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AUTHORITY: Director's Orders dated March 14, 1934.

PURPOSE: This sheet was done by plane-table in order to supplement air photo compilation on photo compilations Nos. T 5420, 5426 and 5429.

GENERAL INFORMATION:

This sheet shows the shoreline of the west side of Chesapeake Bay from Balliston Point to Turkey Point; and some of the roads between Browns Creek and Sue Creek. The land is mostly low and flat and is a rural farming district. The shore is mostly sandy except for a few marshy areas at the heads of creeks.

CONTROL:

Sources:

The positions of triangulation stations were obtained from the following sources:

Lieut. Roland D. Horne; Project No. G-113 B, 1933:
Broring 1933.

Lieut. John A. Bond, Chesapeake Bay, Back River 1934:
Craighill Channel Rear Range Light 1934
Clay 1934
Harc 1934
Hawk 1934
Miller 1934.

Lieut. (j.g.) J.C. Partington, Chesapeake Bay, Middle and Gunpowder Rivers, 1934 and 1935:
Light Bowley Bar 1934
Flagpole Sue Id. 1935
Noel 1935.

These stations furnished sufficient control for the sheet.

SURVEY METHODS:

The usual plane-table methods were used throughout on this survey.

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Beginning at triangulation station Hawk 1934 and orienting on Craighill Channel Rear Range Light 1934, a traverse was run from triangulation station Hawk to triangulation station Broring 1933 by reading telemeter rods for distance and using a backsight to the previous set-up for orientation. This traverse closed without plottable error in distance but in azimuth it was 7 meters to the eastward of triangulation station Broring 1933.

The traverse was re-run but there was no appreciable change in the azimuth closure. The traverse was adjusted by tracing the shoreline on tracing paper and swinging the closing point of the traverse 7 meters westward to the true position of triangulation station Broring 1933 by pivoting about triangulation station Hawk 1934.

A traverse was run from triangulation station Broring 1933 to triangulation station Flagpole Sue Id. 1935 by setting up at triangulation station Broring 1933 and orienting on triangulation station Light Bowley Bar 1934. This traverse checked with an error of two meters in azimuth and was adjusted by swinging the closing point 2 meters to the true position of Flagpole Sue Id. by pivoting about triangulation station Broring 1933.

A traverse was run from triangulation station Flagpole Sue Id. 1935 to triangulation station Noel 1935 closing without plottable error so that no adjustment was made.

West of the $70^{\circ} 24'$ meridian in Sue Creek a traverse was carried to the $70^{\circ} 25'$ meridian. This was done by a combination of traverse and graphic control. In order to locate the shoreline of Sue Creek the plane-table was set up at triangulation station Flagpole Sue Id. 1935 and oriented on triangulation station Light Bowley Bar 1934 which is the only triangulation station visible from the ground. A turning point was taken to the dock about 300 meters west and another turning point taken to the dock about 550 meters southwest. From these turning points on the two docks new turning points were established on the north and south banks by taking rod readings diagonally across Sue Creek and an additional check was obtained by a rod reading across the Creek between the next two turning points. The positions of all the turning points were found to check without plottable error and it is believed that the shoreline of Sue Creek is shown correctly to within 3 meters. It should be mentioned that a special rod was made which reads to 330 meters direct. This rod was made by laying out a 300 meter base on the ground and after the rod was graduated and painted it was verified at the 100, 200 and 300 meter intervals.

There is no control station at the head of Sue Creek for obtaining a check on this work.

MAGNETIC MERIDIAN:

There is no magnetic meridian shown on this sheet because plane-table alidade No. 234 is not equipped with a declinoire.

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FEATURES SHOWN:

Since this sheet was done to supplement photo compilation, only the shore line, docks, and a few roads are shown. No attempt has been made to locate houses, or other features and no vegetation symbols are shown. Where these can be seen on the photographs these symbols are shown on the photo compilation.

NAMES:

No new names are recommended on this sheet and no names appearing on the present charts were found to be in error. All names shown on this sheet were checked by the topographer and found to be in local use.

ROADS:

Roads shown with double parallel lines are paved roads, while single line dashed roads are single track dirt roads or trails.

MARSHES:

The outer edge of the grass line of marshes is shown as the high water line. The limit of submergence at high water is shown by a lighter line.

DUCK BLINDS:

The duck blinds shown were in place at the time of the survey, May and June 1935, but are not of a permanent nature.

LANDMARKS:

The only landmarks on this sheet are Craighill Channel Rear Range Light and Light Bowley Bar. Form No. 567 for these landmarks accompanies descriptive reports of photo compilation sheets Nos. 5426 and 5429.

RECOVERABLE OBJECTS:

Two recoverable objects are listed on this sheet. Form No. 524 for each accompanies this report. None of these objects is prominent enough to be listed as a landmark but they may be useful for inshore hydrography. Other objects shown with red circles on the sheet are not considered permanent enough to be considered recoverable objects.

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TOPOGRAPHIC SHEET "A"

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Respectfully submitted,

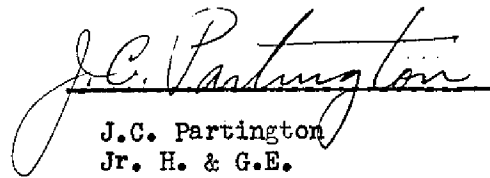

J.C. Partington
Jr. H. & G.E.
Chief of Party

Diagram No. 77-3

Under investigation. Q

[illegible]

REVIEW OF GRAPHIC CONTROL SURVEY T-6335, SCALE 1/10,000

Date of Review *Feb. 10, 1936.*

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5436, T5429, T5420, with particular attention to the following details:

- (a) Projection has been checked in the Field.
- (b) Accuracy of location of plane table control points.
- (c) Discrepancies between detail on this survey and the air photo compilations listed above. *none*
- (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above. *none*

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5426, 5429, 5420, for a more complete discussion of any errors or discrepancies found.

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section. *none*

Notes and corrections resulting from the review are shown on this survey in green. *none*

Leonard A. McKinnon.
February 10, 1936.
V.B.G. Jones