8783

Diag'd. on Diag. Ch. 1218-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey ... Photogrammetric Shoreline

Field No. Office No. T-8783

LOCALITY

State New Jersey

General locality Delaware River

Locality Cohansey River to Nantuxent Cove

194 6

CHIEF OF PARTY

William F. Deane

LIBRARY & ARCHIVES

DATE April 20,1948

8-1870-1 (I)

82/83

DATA RECORD

T- 8783

Quadrangle (II): Ben Davis Point.

Project No. (II): Ph-7(46)

Field Office: New Castle, Del

Chief of Party: E.L.Jones

Compilation Office:

Chief of Party:

William F. Deane

Baltimore Photogrammetric Office

Div. of Photogrammetry Office Files

Instructions dated (II III):

Copy filed in Descriptive

March 25, 1946 July 19, 1946

Report No - T-

1-23-48

Reported to Nautical Chart Section:

Completed survey received in office:

Reviewed: 3-17-48

Applied to chart No.

Date:

Redrafting Completed:

Registered: 4-2-48

Published: Vault copy only

Compilation Scale: 1:10,000

Published Scale: | 110,000

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927

Datum Plane (III): MSL

Reference Station (III): BEACH, 1933

let.;
39° 19' 13.744" 423.9 m

Long.: 75°19' 14.218" 340.6 m uneddjuetedk

State Plane Coordinates (VI): New Jersey

X = 1 814, 983, 52 feet Y = 178, 095, 30 feet

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
46-D-1535-37 i	ncl. 3/1/46	1350	1:10,000	0.4' above MLW * 1.8' above MLW
46-D-1583-89 i	ncl. 3/1/46	1500	1:10,000	0.1' above MLW * 1.4' above MLW

Predicted Tide Tables, Atlantic Ocean, 1946. Reference
Tide from (III): Station - Breakwater Harbor, Delaware, with corrections
to Ben Davis Point City, N.J., with correction for Bayside to
Mean Range:
5.8' Spring Range: 6.7' Ben Davis Pt.

Camera: (Kind or source) U.S.C.& G.S. wide angle single lens type D camera.
All negatives are on file in the Washington Office.

Field Inspection by: John D. Weiler

date: May 1946

Field Edit by: D. G. Flippo

date: 10-20-47 to

Date of Mean High-Water Line Location (III): As of photographs 15602-03 incl., 15610-11 incl., and 15613, taken on 21 March 1946.

Projection and Grids ruled by (III) T.L.J.	date:	8/16/46
" " checked by: T.L.J.	date:	8/16/46
Control plotted by: George O. Fellers	date:	9/2/46
Control checked by: Leroy A. Senasack	date:	9/2/46
Radial Plot by: Frank J. Tarcza Leroy A. Senasack	date:	9/20/46
Detailed by: Florence M. Senasack	date:	9/23/46 to 10/18/46
Reviewed in compilation office by: Joseph W. Vonasek	date:	10/22/46 to 10/30/46
Elevations on Field Edit Sheet Noue	date:	

STATISTICS (III)

Land Area (Sq. Statute Miles): 9

Shoreline (More than 200 meters to opposite shore): 16 statute miles

Shoreline (Less than 200 meters to opposite shore): 33 measured along centerline of stream

Number of Recoverable Topographic Stations established: 4

Number of Temporary Hydrographic Stations located by radial plot: 2

Leveling (to control contours) - 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: For plotting of tide curves from predicted tide tables see descriptive report for T-8760. (Tide curves in report to unlope)

Filed in Div. of Photogram metry - General Files

FIELD REPORT MAP MANUSCHIPT, SURVEY NO. T-8783

See the field report for Map Manuscript, Survey No. T-8760, which covers the area of Map Manuscript, Survey No. T-8783, submitted to the Washington Office 22 January 1947.

July included in description report 78760

pages	
Page 1 of 2 pages	
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	D-(94)7-H9
	,

MAP T. 8783			PROJECT NO. PH-7(46)-C	SCALE OF MAP 1:10,000		SCALE FACTOR	R None
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR V-COORDINATE D	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS CFORWARD (BACK)	DATUM FROM GRID ON IN	27 - DATUM TANCE PROJECTION LINE METERS (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
NOT - COOL HOAGO	G-1664	N.A. 1927	191		423	423.9 (1426.4)	
BEACH					3/10	340.6 (1096.7)	
* SUB. STATION BEACH		N.A. 1927	75 19'		677	443.6 (1406.7)	
BEN DAVIS	6-2105	N.A.			459	459.8 (1390.5)	
1839-40	TCT-d	1927	75 17' 29.289"		701	10000	
* BEN DAVIS (USE)	USE	N.A.	39 17' 23,446"		723	723.0 (1127.3)	
r. 1946	rngla.,	1927	75 17' 21.040"		504	504.2 (933.7)	14
COHANSEY, 1933	d-1664	N.A.	39 201 22,380"		069	690.2 (1160.1)	
	Pg.67	1927	75 21' 38.206"		915	(6, 16, 0)	
* COHANSEY RIVER	G-1751 Pg.130	N.A.			1227	1227.4 (622.9)	
		1927	75 22 03.340"		80	80.0 (1356.8)	
* COHANSEY RIVER REAR RANGE LT. 1933	G-1751 Pg.130	N.A.	39 20' 47.476"		1464	1464.1 (386.2)	
1946	10 mm	17/2/	75 21' 56.121"		1343	1343.8 (93.0)	
DAVIS 1933	7991-9	N.A.	39 17' 21.378"		659	659.3 (1191.0)	, ·
ATTENDED OF THE ALCOHOLD	Pg. 66	1727	75 17' 23.724"		568	568.5 (869.4)	
SEL	G-1751	N.A.	39 20' 29.805"		919	919.2 (931.1)	
r. 1946	Fg.131	1927	75 211 41.878"		1002	1002.9 (434.0)	
6909	40	N.A.	193,633.3		1107	1107.43 (416.57)	Distances from
1940	.J.pg.12		1,822,207.1		672	672.72 (851.28)	1
9	ng.124	N.A.	192,646.1		806	806.53 (717.47)	bace
1930, r.1940	Local	1927	1,820,192.3		58	58.61 (1465.40)	He state orid
* Sub.Sta.		N.A.			746	(90.777, 46.947	(5000 ft intervel)
MUN. NO. 6066		1927			1494.02	.02 (29.99(1
COMPUTED BY, G. O. F	Fellers	TAG	DATE 8/14/46	CHECKED BY. J. Stei	Steinberg	8/20/46	/46 M-2388-12

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MAP T. 8783			PROJECT NO. PH-7 (46)-0	SCALE OF MAP 1:10,000	000,	SCALE FACTOR None	R None
STATION	SOURCE OF INFORMATION (INDEX)	Q	LATITUDE OR U-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)	FACTOR DISTANCE FROM GRD OR PROJECTION LINE IN METERS FORWARD (BACK)
MON. NO. 6068 1936, r. 1946	Local Con-	n- N.A.	1.820.218.1.			937.69 (586.31) 66.48 (1457.53)	
MON. NO. 6069 1936, r. 1946	" " P. 126	N.A.	185,973.6			296.75 (1227.25)	
* MON, NO. 6071	=	N.A.	1,821,271.7.			694.85 (829.15)	
1936, r. 1946	P. 127	1927	1,818,917.9			1,194.18 (329.82)	
* Used to control	the	radial plot	•				
	Į.	, }					
COMPUTED BY. G. O. F. E. L. E. S.	llers		DATE 8-14-46	CHECKED BY. J.Steinberg	inberg	. BATE 8-20-46	M·2388.12
		_					

COMPILATION REPORT

MAP MANUSCRIPT, SURVEY NO. T - 8783

26. CONTROL:

See radial plot report for Surveys Nos. T-8781 and T-8783, for the layout of control in this area, submitted to the Washington Office 26 November 1946. Filed in Description Office Atlanta to Desc Report T-8781

27. RADIAL PLOT:

A report concerning the facts of a combined radial plot for Surveys Nos. T-8781 and T-8783 was submitted to the Washington Office 26 November 1946.

28. DELINEATION:

The compilation is in accordance with the written instructions pertaining to Project No. Ph-7 (46) dated 19 July 1946.

The horizontal control stations, horizontal pass points, and photographic coverage available for the compilation of this survey were adequate.

The field inspection was adequate; however, the field unit, in attempting to identify what they described as "apparent shoreline-top of low bluff (marsh line)", identified instead the outer limits of mud and/or vegetation as these features appear on the photographs which were taken at, or very near mean low water. Therefore, it was necessary for the compilation office to delineate the outer limits of marsh visible at high water after stereoscopic examination of the office photographs, using the nine lens photographs for verification since these were taken near high tide.

30. MEAN HIGH WATER LINE:

The mean high water line, or fast solid land has been delineated in accordance with the office interpretation of the photographs. The outer edge of marsh visible at mean high water has also been delineated in accordance with the office interpretation of the photographs.

31. MEAN LOW WATER LINE:

The position of the mean low water line has been delineated in accordance with the field data and has not been shown unless identified by the field unit. The definite position of the mean low water line has been shown with an alternate dot and dash line and the approximate position with a dotted line. See Review Report

31A SHOAL AND REEF LINES:

There are no shoal or reef lines shown on the map manuscript. However, a shoal area in the vicinity of Cohansey Cove has been indicated on the map manuscript.

Deleted. See Review Resort.

31C FORESHOHE AHEA:

The foreshore area consists of grass-in-water, sand, and mud, and are delineated in accordance with the field data and office interpretation of the photographs.

32. DETAILS OFF CHORE FROM THE MEAN HIGH WATER LINE:

Four small sand islets were shown on the map manuscript in the yicinity of Drumbo Creek and two small grass islets were shown in the vicinity of Middle Marsh Creek.

33. WHARVES AND SHORELINE STAUCTURES:

An old wooden pier, the remains of a groin, and two small boat skids were shown on the map manuscript in the vicinity of Sea Breeze. Another small wooden pier has been shown at the mouth of a creek just north of Back Creek Point.

34. LANDMARKS AND FIXED AIDS TO NAVIGATION:

Chart Letter 303

Refer to Form No. 567 included with the Field Inspection deport for Survey No. T-8760. Filed in Div. of Photogram metry - General Files

35. HYDROGRAPHIC CONTROL:

Four recoverable photo (topographic) station and two temporary photo (topographic) stations have been shown on the map manuscript.

Form No. 524 has been submitted for each of the recoverable photo (topographic) stations with the report for Survey No. T-8760. A descriptive list of all the photo (topographic) stations has been compiled and is attached to this report. Two additional copies have been furnished for the use of the hydrographic parties.

Form 524 cards are filed in the Div. of Photogrammetry - General Files.

38. GEOGRAPHIC NAMES: Approved list filed in Div. of Charts - Geographic Names Cops filed in the report for T8760. Section

Geographic names were taken from a geographic names investigation furnished by the Washington Office on 9 December 1946 on a corrected copy of the United States Army Engineers, Shiloh, N. J. - Del. Quadrangle. A list of names is attached to this report.

39. JUNCTIONS:

A satisfactory junction was made with Survey No. T-8781 to the west. There are no contemporary surveys of the same scale to the north, south, or east of the map manuscript. This survey is part of Survey No. T-8760.

40. HORIZONTAL ACCURACY:

The position of all important details is believed to be within 0.5 mm.

41. RECOMMENDATIONS FOR FUTURE SURVEYS:

Map Manuscript, Survey No. T-8783 is complete with respect to all known topographic details necessary for charting, except the charted features not definitely revealed by photography.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

See side heading 44 of Descriptive Report for Survey No. T-8760.

45. COMPARISON WITH NAUTICAL CHARTS:

See side heading No. 45 of Descriptive deport for Survey No. T-8760.

Respectfully submitted 21 October 1947

Photogrammetric Aid Compilation and Compilation Report

Photogrammetric Engineer Photogrammetric Office Review

Approved and Forwarded 3 February 1947

Harry R. Rudo Gole Supervisor

Officer in Charge

Baltimore Photogrammetric Office

1946

IDENTIFICATION REPORT

HORIZONTAL CONTROL

Name of Station	Corps of Engineers U.S.Army Quadrangle	Recovery Data	Pricking Data
BEN DAVIS, 1839-40	Shiloh	No Hecovery Lost- Sec r	Not Pricked

See the field report for the Ben Davis Point Quadrangle No. T-8760 for a listing of the remainder of the horizontal control stations within the area of Survey No. T-8783.

DELAWARE RIVER

PROJECT NO. PH-7 (46)

DESCRIPTION OF THE PHOTO (TOPOGRAPHIC) STATIONS FOR MAP MANUSCRIPT, SURVEY NO. T-8783

Steel windcharger tower, west end of roof of white house. 6001 West end of gable of white house. 6002

- "NAT, 1946" Station is located on the east side of Delaware Bay on the south side of the entrance to Middle Marsh Creek, on a small tip of sand. The station is marked by a standard topographic disk stamped "NAT 1946", set in the top of a 6" diameter concrete monument and extends 6" above ground.
- "PAL, 1946" Station is located on the east side of Delaware Bay one mile east of Cohansey Lighthouse, at the south tip of the brush extending into the sand beach on the east side of the mouth of Drumbo Creek. The station is marked by a standard topographic disk stamped "PAL 1946", set in the top of a 6" diameter concrete monument extending 6" above ground.
- "USE.1946" Station is on the east shore of Delaware Bay one mile south of Sea Breeze, 17 meters east of M.H.W. on the division line between the sand beach and matted grass to the east. The station mark is a standard disk stamped "USE 1946" cast in 6" stovepipe, projecting 10" above ground.
- "VAL, 1946" Station is located on the east side of Delaware Bay one mile northwest of Ben Davis Point, at the southwest tip of a small pond. The station is marked by a standard topographic disk stamped "VAL, 1946", set in the top of a 6" diameter concrete monument and extends 6" above ground.

LISTED BY: <u>Florence M. Senasack</u> Photogrammetric Aid

CHECKED BY: Joseph W Uniase k
Photogrammetric Engineer

NOTES FOR HYDROGRAPHIC PARTIES

DELAWARE RIVER

MAP MANUSCRIPT, SURVEY NO. T-8783

PROJECT NO. PH-7(46)

The two millimeter circles, accompanied with a name and date, are the positions of the recoverable photo (topographic) stations. The two millimeter circles, accompanied with a number are the positions of the temporary photo (topographic) stations. Two copies of the descriptive list have been furnished for your use.

The dotted line is the approximate position of the mean low water line. The alternate dot and dash line is the accurately determined position of the mean low water line.

The following topographic information shown on T-8783 is of sufficient importance to warrant immediate application to the chart:

None

The following topographic details above the plane of mean high water are not shown on this manuscript, but are believed to still exist and should be carried forward on the chart:

None

Low water features are shown in part and will be completed by the hydrographic party.

Minor changes in culture and shoreline details shown on this survey need no special discussion.

Respectfully submitted

Approved and Forwarded 3 February 1947

William F. Veane Officer in Charge

Baltimore Photogrammetric Office

<u> Plorence M. Senasack</u> Photogrammetric Aid

Division of Photogrammetry Review Report of Shoreline Map Manuscript T-8783

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

26. Control.

The following triangulation stations, listed as lost by the field inspection party, were removed from the map manuscript:

Ben Davis, 1839-40 Cohansey, 1933

The names of triangulation and topographic stations on the map manuscript were changed to conform with the specifications in paragraph 23 of Photogrammetry Instructions No. 17, 1947.

31. Low Water and Shoal Lines.

A note referring to a shoal area in the vicinity of the mouth of the Cohansey River was removed from the map manuscript. The shoal area is not visible on the photographs.

The symbol for the low water line was changed to conform with the symbol sheet in Photogrammetry Instructions No. 17, 1947.

34. Landmarks and Aids to Navigation.

The geographic position for the 55 foot steel tower was corrected on the Form 567. The tower is at the triangulation station, "Ben Davis, USE". The Nautical Chart Section has been notified of this change. 303(1948)

40. Geographic Names

Names were added to the map manuscript from the approved list of names submitted by the Geographic Names Section.

44. Comparison with Existing Topographic Surveys.

T 63	1:20,000	1841	T1550 1:20,000 1882,83
T141	1:10,000	11	T1565 1:20,000 1885
T152	1:20,000	1842	T1661 1:20,000 1884,85
T155	1:20,000	1842-43	USGS Shiloh 15 Quad. 1:62500/
T157	1:20,000	1842	USE Shiloh Quad 1941 1931

These surveys are superseded in common area by T-8783.

Two notable differences between the USC&GS and USGS surveys and the map manuscript are:

The shoreline has receded up to 200 meters since the older surveys were made.

The new channel, "Cut Through", into the Cohansey River is not shown on the surveys.

45. Comparison with Nautical Charts:

Chart No. 1218

1:80,000 1942 Corr. 1947

The map manuscript has not been applied to the nautical chart. They are in good agreement in common area.

Reviewed by:

Reviewed under direction of:

3-17-48

Chief, Review Section

APPROVED:

Chief. Division of Photogrammetry

Division of Photogrammetry

Chief. Division of Photogrammetry

Chief, Division of Coastal

Surveys

Survey No. 1-878 3	3	/_	, ous s	diag	(a) id	Mas	. Je C	. Shaji	dir	"/
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Name on Survey	A	B		/ _D `	E	°/ F	G	"/н		/
New Jersey									USQ	8
Delaware Bay	···	-								
Nantuxent Cove										
Ceder Creek										
Bay Point										
Tarpon Gut			•	_						
Tarpon Point										
Sagres Point				_						
Back Creek	-			_		ļ	-	-	ļ	
Sayres Neck	-	ļ <u>-</u>				-			USCB	1
Dayton Creek				ļ		<u> </u>		-	1	1
Egstern Cross								,	-	12
Back Neck							·	<u> </u>	-	13
Tweed Creek	<u> </u>	<u> </u>			· \	<u> </u>		1		14
Pier Point Neck			-	ļ		 	·		-	15
Pier Point Cpeak		ļ. —	 .		-	-		ļ	-	10
Back Creek Point	_	ļ <u>-</u>	ļ		-	-			-	1
Ben Davis Point	 		<u> </u>		 	_			 	18
Oyster Gut		<u> </u>	-			ļ	•			19
Sea Breeze			 	-		-				20
Sea Breeze Road	-			_		-	ļ	-	<u> </u>	2:
Western Cross			 -	<u> </u>		ļ		<u> </u>	<u> </u>	22
Middle Marsh Creek					<u> </u>	<u> </u>	ļ <u>-</u>			23
Division Creek	-		<u> </u>				 			24
Cohansey Cove			<u> </u>				<u> </u>	<u> </u>	 -	2!

F O Carde of Mess GEOGRAPHIC NAMES Or local mades Survey No. 1-8783 É 2 Name on Survey Cohansey Point Cohansey Island Cut Through Ayres Cyeck Cabin C sek 5 __ 6 Mindell Island 7 _ . . Regged Island 9 Names underlined in red approved. 11/5/48 IH 10 __ 11___ 12 13 14___ 15 16___ 17____ 18 19 20 21 _ 22 23 24 25 26

NAUTICAL CHARTS BRANCH

SURVEY	NO.	

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11/49	291	R Pakutsk	Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
-	·		Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			M-2168-1

M-2168-1