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4425

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
....., Director	
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State: New York	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. <sup>4</sup> 4425
LOCALITY	
Gardiners Bay, Long Island	
Goff Pt. to Hog Creek Pt.	
<div></div>	
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1928	
CHIEF OF PARTY	
C.K. Green	

DESCRIPTIVE REPORT TO ACCOMPANY SHEET #4.

Instructions dated - September 26, 1920.

GENERAL DESCRIPTION OF COAST

Hog Creek Point, at the western limits of the sheet, is generally flat with clay and sandy bluffs approximately 25 feet in height. These bluffs continue along the shoreline to the southward for  $1\frac{1}{2}$  miles, varying in height, and with occasional breaks.

Lion Head Rock, off Hog Creek Point, is awash at high water. There is also a prominent rock, some 6 feet in diameter and 4 feet high, about 60 meters off Fireplace. This is shown as signal "Bone" on the topographic sheet.

From the entrance of Acabonack Harbor to approximately 1 mile northward, the coastline is low, sparsely wooded, and made up of sand and gravel.

Acabonack Harbor, surrounded in general by marsh, has no great depth of water. Small boats use the harbor just inside the entrance as an anchorage. Mud flats show at low water in the upper <sup>part</sup> of the harbor.

The sandy bluffs south of Acabonack Harbor, ~~is~~ the most prominent feature along the coastline in that locality. They extend about one mile to southward of the entrance of the harbor, with heights from 50 to 60 feet. The two tanks, one with a windmill, and a large house near the edge of the bluff, are very prominent objects.

The coastline eastward from the Devon Yacht Club to Goff Point is generally low, sandy, and with scattered vegetation. Sand dunes back from the shoreline are noticeable. The lone brick stack at the Electric Light Plant, south and west of Promised Land, can easily be identified. Promised Land is made up of numerous buildings and docks; the Elevator Cupola, at the outer end of the Fisheries Product Co. dock, being the most conspicuous.

Hicks Island, at the entrance of Napeague Harbor, is low and hardly distinguishable from the main coastline. A steel stack, near the center of the island, is a prominent object.

The western and southern sides of Napeague Harbor are low, with marshy ground and occasional sand beaches. The higher ground is made up of sand dunes.

Goff Point is low and sandy with sparse vegetation.

Cartwright Island, locally known as Ram Island, is a narrow low sandy island  $1\frac{1}{4}$  miles long, extending in a southerly direction off the south tip of Gardiners Island. Its size and shape is subject to considerable change by storms. The elevation of the highest point is approximately eight feet.

LANDMARKS

Prominent landmarks that may be listed are, one of the two tanks at Bell's place, preferably the one with the windmill which is listed as "Windmill, Bell's Place 1920" in the triangulation data and the Elevator Cupola, at the outer end of the Fisheries Product Co. dock. (Submitted on form 567).

CONTROL

Sufficient old triangulation stations were recovered and new stations located to make the system of control excellent. No section of the sheet was at any great distance from either a marked station or an intersection station. The additional triangulation was carried forward from "Cartwright" and "Woodhouse" located in 1911.

*Notes - ... (Handwritten notes and signatures at the bottom of the page, including "L. H. ...")*

#### TRAVERSE ERRORS

Due to the complete system of control, no unusual errors in the traverses were encountered. Three point fixes were obtainable almost at any point while traversing.

#### FORM LINES

No actual elevations were obtained and no form lines drawn on this sheet.

#### CHANGES IN PROMINENT FEATURES

A slightly different location of Lion Head Rock was obtained. There is only one rock, which is awash at high tide. The new location differs from that shown on the photostat of Topographic Sheet #1570 in that the new location is 10 meters to the eastward. The rock was located by three plane table cuts.

Changes in buildings and docks are numerous and have occurred in practically all cases along the waterfront. A complete re-survey was made of these details.

#### CHANGES IN COASTLINE

The most important changes in shoreline were noted at Hog Creek Point, Cartwright Island, and Goff Point.

At Hog Creek Point, the shoreline has receded in distances varying from 50 to 20 meters.

Cartwright Island has been built up approximately five times its length as shown on the present chart. The northern half of the island is very low, made up of sand beach, and probably awash during storms.

Goff Point has been built up until it extends about 285 meters to the westward. The passage between Hicks Island and Goff Point has been reduced in width from 430 meters to 230 meters. Currents in that vicinity have considerable velocity, causing noticeable changes in the shoreline, which is made up of sand and gravel.

Minor changes have been noted at various places between Hog Creek Point and Goff Point, but in general the shoreline, as determined by the present survey, checks with the previous work.

#### MISCELLANEOUS NOTES

As damp weather was experienced while making preparations for this survey, it was not possible to obtain a well seasoned sheet. Considerable damp weather was also had during the survey. The sheet now, after being thoroughly dried out, shows a considerable amount of distortion; about 15 to 20 meters per mile in both directions.

Topographic signals on this sheet are shown by a dot surrounded by a circle a little larger than one millimeter in diameter instead of circles three millimeters in diameter as called for in the Topographic Manual.

Mud flats show at extreme low tides near the western side of Napeague Harbor and off Lazy Point. The limits of these were not definitely determined and are not shown on the sheet. The passage between Hicks Island and Lazy Point also goes dry at extreme low tides. At normal tides the two are separated by a narrow passage of shoal water.

Due to differences in shoreline, the survey was carried west of Hog Creek Point to Three Mile Harbor, ending on the U.S.E. Station "Three Point". When a location of this station was obtained and plotted, it showed a difference of approximately thirty meters from the traverse location. As there is some doubt as to which location is correct, the shoreline was inked only to a point where it coincides with the old work and the remainder left in pencil.

Respectfully submitted,

*Carl H. Ellers,*  
Jr. H. & C. Eng'r.

Through: *Chas. H. Green*  
H. & C. Eng'r.

# PLANE TABLE POSITIONS & TOPOGRAPHIC SIGNALS

Object Hydro.Name	Latitude	D. M.	Longitude	D. P.	Height	Remarks
	o ' "	Meters	o ' "	Meters	Feet	
Lion ✓	41 - 03	614	72 - 09	1280	-----	Lion Head Rk.
Bone ✓	41 - 03	209	72 - 09	232	4	Rock off Fireplace.
Fir ✓	41 - 02	1830	72 - 09	229	-----	N'ly.corner of Fireplace Lodge
Roof ✓	41 - 02	1235	72 - 08	999	-----	N'ly.corner of house.
Doe ✓	41 - 00	1765	72 - 07	946	8	Center of small bathhouse.
Flagpole	41 - 00	451	72 - 07	405	-----	White - On Bell's place.
Boy	40 - 59	1250	72 - 06	897	-----	Center of house.
Cig	41 - 01	313	72 - 08	262	-----	Boat Mast.
Step	41 - 01	79	72 - 07	1079	-----	Lower end of flight of steps.
Yot(flagpole)	40 - 59	1013	72 - 06	536	40	White - At Devon Yacht Club.
Can	40 - 59	1203	72 - 05	400	20	White pole with can on top.
Pole	40 - 59	1138	72 - 05	290	20	" " " " " "
Wind	40 - 59	1453	72 - 04	1105	35	Steel tower windmill.
How	41 - 00	2	72 - 04	1373	-----	Top of building on dock. (waterline.
Let	41 - 00	407	72 - 04	1155	-----	W.gable of large shed on
Tank	41 - 00	557	72 - 04	996	30	Center of large black tank.
In	41 - 00	620	72 - 04	1193	4	Inner corner,N.side of dock.
Mag	41 - 00	936	72 - 04	953	-----	Board on dune.
Not	41 - 00	1118	72 - 04	542	10	Pole Signal.
Gum	41 - 00	1155	72 - 03	1392	-----	Chimney on house.
Bad	41 - 00	1432	72 - 03	647	-----	Center of small shack.
End	41 - 00	1455	72 - 03	588	-----	Center of small end shack.
Red	41 - 00	1665	72 - 03	1021	-----	Chimney,red house,Hicks Id. (Hicks Id.
Den	41 - 01	189	72 - 03	828	-----	N.end,most northerly shack,
Mug	41 - 01	413	72 - 03	45	-----	Chimney on house.
Pat	41 - 01	313	72 - 02	213	-----	Tripod signal.
Grey	41 - 02	215	72 - 05	1399	15	(Cartwright Id. Banner on N.W.cor. of shack,
Dad	41 - 01	1393	72 - 06	46	15	Pole signal.

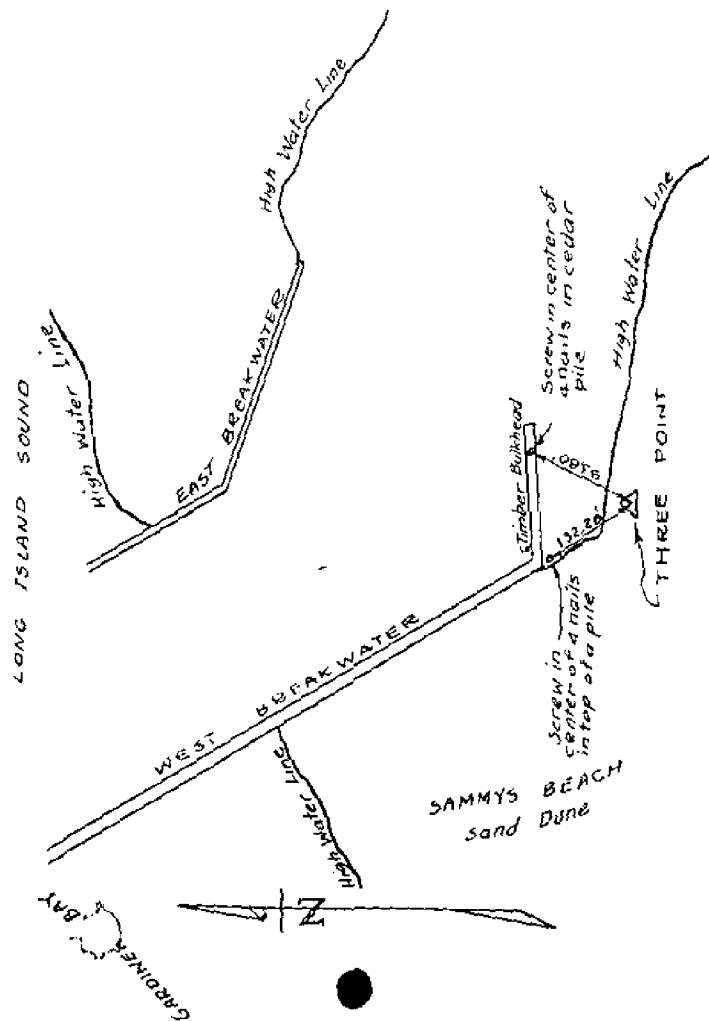
## Three Mile Harbor, N.Y.

Tri. Sta. THREE POINT  
 Est. Oct. 18, 1927  
 Book No. 5431 Pg. 6 (Desc.)

Co-ord: 3-20,118.02

3-32,861.21

Tri. Sta. THREE POINT is a standard U.S.C. & G.S. marker set in concrete on line of west breakwater, 2 ft. above ground. It is 132.28 ft. from screw in the center of 4 nails in the top of a pile at the shore end of the west breakwater. Also 93.80 ft. from a screw in the center of 4 nails in the cedar pile in the timber bulkhead going east from the west Bulkhead.



## THREE MILE HARBOR

Co-ordinates are based on a rectangular system having its origin at U.S.C. & G.S. station Long Beach Bar Light House (Lat. 41° - 06' - 32.888", Long. 72° - 18' - 23.080"). The northerly axis is coincident with the true meridian through this station.

PROJECT 2  
GREEN

(U. S. E. D. 1st Dist., N. Y. C.) Form No. 11

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IN REPLY  
REFER TO:

Ex. & S. 65

WAR DEPARTMENT  
UNITED STATES ENGINEER OFFICE  
FIRST DISTRICT, NEW YORK CITY HEL/TD  
ROOM 710, ARMY BUILDING, 39 WHITEHALL ST.

*W. H. Hoffman*

NEW YORK, N. Y.

January 22, 1929.

Subject: Revision Surveys in vicinity of Three Mile Harbor.

To: The Director,  
U. S. Coast and Geodetic Survey,  
Department of Commerce,  
Washington, D. C.

44-45

1. The receipt is acknowledged of your letter of January 17, 1929, in connection with revision surveys made by your Department in the vicinity of Three Mile Harbor, and requesting some information in reference to our recent surveys.
2. It is believed that the inclosed photostat giving data and description of our station Three Point will provide the information you desire.
3. Your description marked No. 2 is probably Monument 18 of a Fish Pound Survey and was not set or located in our October, 1927, survey.
4. The geodetic control for this work was established by a three point problem from Long Beach Bar Lighthouse, Orient Point Light and Little Gull Island Light.

Inclos.-  
Photostat.

G. M. HOFFMAN,  
Colonel, Corps of Engineers,  
District Engineer.

By:

*H. A. Skerry*  
H. A. SKERRY,  
Captain, Corps of Engineers.

1st May.

1856.9  
1856.9

- (1) U.S.E. ~~A~~ Sta. on west side of entrance to Three Mile Hbr. L. I., locality known as Sammy's Beach (no name on station mark) Approx. Lat. —  $41^{\circ}-01'-1658$  meters  
" Long. —  $72^{\circ}-11'-337$  meters
- (2) U.S.E. ~~A~~ Sta. on east side of entrance, directly across from (1). (Concrete base intact, but disc is removed)
- Approx. Lat. —  $41^{\circ}-01'-1820$  meters  
Long. —  $72^{\circ}-11'-272$  "

\_\_\_\_\_, 192

**BETWEEN-DIVISION REQUISITION FOR SUPPLIES OR SERVICES**

(Not to be used for shipping)

To the Chief of the Division of \_\_\_\_\_

Please furnish the following for official use:

\_\_\_\_\_  
Chief, Division of \_\_\_\_\_

Approved: \_\_\_\_\_

\_\_\_\_\_  
Assistant Director.



10-rs

January 17, 1929.

To: U. S. District Engineer,  
War Department,  
New York City.

From: The Director,  
U. S. Coast and Geodetic Survey.

Subject: Revision surveys in vicinity of Three Mile Harbor.

In connection with revision surveys made by this Bureau in the vicinity of Three Mile Harbor, Long Island, a topographic traverse along the beach was connected with two of your stations as follows:

(1) U.S.E. Triangulation Station on west side of entrance to Three Mile Harbor, L. I., locally known as Sammy's Beach (no name on station mark). Approximate position: Latitude  $41^{\circ} 01'$  (1658 meters), longitude  $72^{\circ} 11'$  (537 meters).

(2) U.S.E. Triangulation Station on east side of entrance directly across from (1) (concrete base intact, but disc removed). Approximate position: Latitude  $41^{\circ} 01'$  (1820 meters), longitude  $72^{\circ} 11'$  (272 meters).

Information is desired as to whether you have the position of these stations with reference to triangulation stations of the Coast and Geodetic Survey, or if such information is not available, whether the zero of your system of coordinates in that locality has been connected with the triangulation of this Bureau. In the absence of the above, it is requested that this Bureau be furnished with any data which will be of assistance in coordinating the two systems of triangulation. From a note appearing on one of your blue-prints, the officer engaged in making surveys in that locality during the past summer gathered the impression that your triangulation had been connected with Coast Survey triangulation in the vicinity of Three Mile Harbor.

Acting Director.

C O P Y

U. S. Coast and Geodetic Survey,  
330 West 42nd St., New York City.

DEPARTMENT OF COMMERCE

U. S. Coast and Geodetic Survey

December 18, 1933.

To: The Director,  
U. S. Coast and Geodetic Survey,  
Washington, D. C.

From: Lieutenant (j.g.) R. C. Bolstad,  
Chief of Party, U. S. C. & G. S.,  
330 West 42nd Street, New York City.

Subject: Data requested for Party No. 12.

In regard to a bromide of topographic sheet, Register Number 4425 (C. K. Green, 1928) recently forwarded to this party, comparing the datum station, Cartwright 1911 with its position on the N. A. 1927 datum the following correction was noted: Latitude -16.3 meters, Longitude +4.0 meters (corrections to be applied to all stations on N. A. datum for on this topo sheet to place on a N. A. 1927 datum). After making the change in the meridians and parallels on the bromide it was discovered that many of these triangulation stations failed to check the plotted positions on the celluloid sheet even though the bromide had been subdivided to eliminate distortion in tracing detail. Some of the stations fail to check by about ten meters even though within around a hundred meters of the new meridians and parallels and it looks very unlikely that this much distortion would occur in the bromide.

It is suggested that the plotting of the stations and the above correction be verified and if not found in error the positions of all triangulation stations on this sheet be forwarded to this party. The positions were previously obtained from the party of Lieutenant L. C. Wilder.

This sheet is in progress and the information will be needed as soon as possible.

(Sgd.) Roswell C. Bolstad  
Roswell C. Bolstad  
Chief of Party, C. & G. S.

C O P Y

26-AHH  
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December 26, 1933.

To: Lieutenant (j.g.) Roswell C. Bolstad,  
U. S. Coast and Geodetic Survey,  
330 West 42nd Street,  
New York, New York.

From: The Director,  
U. S. Coast and Geodetic Survey.

Subject: Topographic Sheet T4425.

As requested in your letter of December 18, 1933, the plotting of all Triangulation Stations on Topographic Sheet No. 4425 has been checked. All stations east of longitude  $72^{\circ}-06'$  are erroneously plotted on this sheet by from three to eight meters.

These errors are probably due to the plotting and checking of the stations on the penciled projection which may have been partially obliterated during field work. When the projection was later inked, the sheet had probably become distorted and the original penciled lines may not have been followed exactly.

However, in the absence of definite proof of the causes for these errors, you should not give any weight to the topographic detail east of longitude  $72^{\circ}-06'$ .

The correction to be applied to the positions of Triangulation Stations shown on this sheet to bring those positions to N.A. 1927 Datum, is -16.3 meters in latitude and -4.3 meters in longitude.

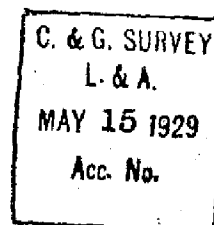
The 1927 datum positions of all Triangulation Stations shown on this sheet are given on pages 35 to 46 of the printed list of "Geographic Positions of Triangulation Stations in New York" previously forwarded to you.

(Sgd.) J. H. Hawley

Acting Director.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## TOPOGRAPHIC TITLE SHEET



REG. NO.

4425

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

Field Letter No. 4

REGISTER NO. 4425

State New York  
General locality Gardiners Bay, Long Island  
Locality Goff Pt. to Hog Creek Pt.  
Scale 1 - 10,000 Date of survey Oct. & Nov., 1928.  
Vessel Launch Ogden Shore Party  
Chief of Party C. K. Green  
Surveyed by C. F. Ehlers  
Inked by C. F. Ehlers  
Heights in feet above            to ground to tops of trees  
Contour Approximate contour Form line interval            feet  
Instructions dated Sept. 26, 1928., 19  
Remarks: Revision Survey

IN REPLY ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 82-DRM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

February 4, 1936.

MEMORANDUM for T 4425

Examination of this sheet shows considerable distortion and there is also evidence that the pencil projection lines were partially obliterated during field work and later incorrectly inked. Air photo compilations T 5068, T 5074, T 5077 and T 5078 adequately cover the area of T 4425 and because of errors of projection, this sheet should be rejected for further use.

*C. H. Green*  
Chief, Field Records Section