DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: New York......

DESCRIPTIVE REPORT
Topographic | Sheet No. 4
Hydrographic

LOCALITY
Gardiner's Bay, Long Island
Goff Pt. to Hog Creek Pt.

CHIEF OF PARTY
C.K. Green
Instructions dated - September 20, 1928.

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 1/2 mile, varying in height, and with occasional breaks.

Lion Head Rock, off Hog Creek Point, is swash 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 Acaponack Harbor to approximately 1 mile northward, the coastline is low, sparsely wooded, and made up of sand and gravel.

Acaponack 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 part of the harbor.

The sandy bluffs south of Acaponack Harbor, as 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 1/2 mile 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 1916" 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.
THAVERSE 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 # 15'0 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, 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.

And flats show at extreme low tides near the western side of Napeague
Harbor and off Lazy Point. The limits of these were not definitely de-
termined and are not shown on the sheet. The passage between Hicks Is-
land 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 re-
mainder left in pencil.

Respectfully submitted,

Through: Shan H. Greene

<table>
<thead>
<tr>
<th>Object Hydro.Name</th>
<th>Latitude</th>
<th>D: M.</th>
<th>Longitude</th>
<th>D. P.</th>
<th>Height</th>
<th>Remarks</th>
</tr>
</thead>
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<tr>
<td>Lion</td>
<td>41 - 03</td>
<td>614</td>
<td>72 - 09</td>
<td>1280</td>
<td>4</td>
<td>Lion Head Rk.</td>
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<tr>
<td>Bone</td>
<td>41 - 03</td>
<td>209</td>
<td>72 - 09</td>
<td>232</td>
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<td>Rock off Fireplace.</td>
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<td>Fir</td>
<td>41 - 02</td>
<td>1830</td>
<td>72 - 09</td>
<td>229</td>
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<td>Roof</td>
<td>41 - 02</td>
<td>1235</td>
<td>72 - 08</td>
<td>999</td>
<td></td>
<td>N'ly.corner of house.</td>
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<td>Doe</td>
<td>41 - 00</td>
<td>1765</td>
<td>72 - 07</td>
<td>946</td>
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<td>Center of small bath-house.</td>
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<tr>
<td>Flagpole</td>
<td>41 - 00</td>
<td>451</td>
<td>72 - 07</td>
<td>405</td>
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<td>White - On Bell's place.</td>
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<tr>
<td>Boy</td>
<td>40 - 59</td>
<td>1250</td>
<td>72 - 06</td>
<td>897</td>
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<td>Center of house.</td>
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<tr>
<td>Cig</td>
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<td>313</td>
<td>72 - 08</td>
<td>262</td>
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<td>Boat Mast.</td>
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<tr>
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<td>41 - 01</td>
<td>79</td>
<td>72 - 07</td>
<td>1079</td>
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<td>Lower end of flight of steps.</td>
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<td>Yot(flagpole)</td>
<td>40 - 59</td>
<td>1013</td>
<td>72 - 06</td>
<td>536</td>
<td>40</td>
<td>White - At Devon Yacht Club.</td>
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<td>40 - 59</td>
<td>1203</td>
<td>72 - 05</td>
<td>406</td>
<td>20</td>
<td>White pole with can on top.</td>
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<tr>
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<td>1138</td>
<td>72 - 05</td>
<td>290</td>
<td>20</td>
<td>&quot;  &quot;  &quot;  &quot;  &quot;</td>
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<tr>
<td>Wind</td>
<td>40 - 59</td>
<td>1453</td>
<td>72 - 04</td>
<td>1185</td>
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<td>Steel tower windmill.</td>
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<td>How</td>
<td>41 - 00</td>
<td>2</td>
<td>72 - 04</td>
<td>1373</td>
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<td>Top of building on dock.</td>
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<td>Let</td>
<td>41 - 00</td>
<td>407</td>
<td>72 - 04</td>
<td>1197</td>
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<td>551</td>
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<td>620</td>
<td>72 - 04</td>
<td>1193</td>
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<td>72 - 04</td>
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<td>72 - 03</td>
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<td>Rad</td>
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<td>1432</td>
<td>72 - 03</td>
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<td>1455</td>
<td>72 - 03</td>
<td>588</td>
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<td>72 - 03</td>
<td>1021</td>
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<td>41 - 01</td>
<td>189</td>
<td>72 - 03</td>
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<td>Mug</td>
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<td>413</td>
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<td>45</td>
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<td>72 - 02</td>
<td>213</td>
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<td>215</td>
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<td>1399</td>
<td>15</td>
<td>(Cartwright Id. Banner on N.W.cor. of shack,</td>
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<tr>
<td>Dad</td>
<td>41 - 01</td>
<td>1333</td>
<td>72 - 06</td>
<td>49</td>
<td>15</td>
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Tri. Sta. THREE POINT Co-ord: X. 29,018.02
Est. Oct. 18, 1927 Y. 02,561.21
Book No. 5431 FT. 6 (Desc.)

Tri. Sta. THREE POINT is a standard U.S. N.O. marker set in concrete on line of west breakwater, 6 ft. above ground. It is 132.26 ft. from screw in the center of 4 nails in the top of a pile at the shore end of the West Breakwater. Also 33.80 ft. from a screw in the center of 4 nails in the cedar pile in the timber bulkhead going east from the wet Bulkhead.

LONG ISLAND SOUND

THREE MILE HARBOR

Co-ordinates are based on a rectangular system having its origin at U.S. G.N. station Long Beach Bar Light House (Lat. 41° 06' - 32.955°, Long. 72° 18' - 23.050°) The northerly axis is coincident with the true meridian through this station.
Subject: Revision Surveys in vicinity of Three Mile Harbor.

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

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,
Captain, Corps of Engineers.
(1) U.S.E. Sta. on west side of entrance

to Three Mile Hbr., L.I. (locally known as Sammy's Beach, no name on station mark). Approx. Lat. - 41° 01' - 1658
Long. - 72° 11' - 337 meters

(2) U.S.E. Sta. on east side of entrance directly across from (1). (Concrete base intact but block is removed)

Approx. Lat. - 41° 07' - 1820 meters
Long. - 72° 11' - 272
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.
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 Sandy's Beach (no name on station mark). Approximate position: Latitude 41° 01' (1550 meters), longitude 72° 11' (337 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° 01' (1520 meters), longitude 72° 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 core 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.
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 -16.5 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 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.
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°-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°-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.
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 L-10,000 Date of survey Oct., Nov., 1929.

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, 1929.

Remarks: Revision Survey

M. C. VON DER OSER, HARPER 1929
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. J. Green
Chief, Field Records Section

February 4, 1936.