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Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
R. S. Patten, Director	
State: <i>Delaware & Maryland</i>	
S. & G. SURVEY L. & A. DEC 23 1920	
Sheet No. 4467 4468	
LOCALITY	
Cape Henlopen	
Lewes, Delaware to	
Ocean City, Maryland	
1929	
CHIEF OF PARTY	
G. C. Mattison	

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEETS "A" AND "B"

OCEAN CITY, MARYLAND TO LEWES, DELAWARE

DESCRIPTIVE REPORT

To Accompany

Topographic Sheets "A" and "B"

Ocean City, Maryland, to Lewes, Delaware

Instructions

U.S.C. & G.S.S. LYDONIA, Dated July 1, 1929.

All the topography on these two sheets was executed by Carl F. Ehlers, Jr. H. & G. Engineer, C. & G. Survey. Due to the sudden death of Mr. Ehlers, the inking of the sheets was executed by Edward B. Brown, Jr., Deck Officer, C. & G. Survey.

The detail as shown on the penciled sheet was, generally speaking, very clear and unmistakable. There were, however, a few exceptions and some have not as yet been clarified. There are two pricked points quite close together; they are labeled "post" and "Ben", and a comparison with the hydrographic sheet will be necessary in order to determine which is "post" and which is "Ben". Both "post" and "Ben" were left in pencil. There were three cuts, apparently, to a lightship shown; but no position of the lightship was shown. These three cuts were left in pencil on the sheet (approximate Latitude $38^{\circ} 47' 45''$ and Longitude $75^{\circ} 01' 45''$). All of the bridges on the sheet were shown as simple bridges and were inked accordingly; however, some of them are known to be draw bridges. Information as to the types of bridges may be had from a publication of the U. S. Engineers, "List of Bridges Over the Navigable Waters of the United States".

There has been a very marked erosion of the beach since previous surveys. The extent of this erosion has been indicated with appropriate notes near Triangulation Stations Swan 1929, Collier 1908, and Cotton Patch 1909. On some of the Triangulation Station Description Cards and Recovery Cards, shore line references are given. These references may be of assistance in controlling photographs, so there is a note in pencil on the sheets under each Triangulation Station when such a reference appears on the Description Card.

There were two magnetic meridians on each sheet, observed from Triangulation Stations Horse 1929, North 1929, Cotton Patch 1909, and Thompson 1909. Only the date was given on the meridian observed from Triangulation Station Horse 1929.

Respectfully submitted,

Edward B. Brown, Jr.
Edward B. Brown, Jr.

Deck Officer, C. & G. S.

Approved:

Chief, Section of Field Work.

Plane Table Positions - Sheet "A"

Station and Description	Latitude		D.M. meters	Longitude		D.P. meters
	°	'		°	'	
End (Pole)	38	19	939.1	75	05	454.0
Pur (Tower)	38	19	1572.1	75	05	216.5
Val (Chimney)	38	21	1379.5	75	04	379.0
End (East gable and green house)	38	26	1341.7	75	03	62.9
Fix (Building)	38	27	166.8	75	03	00.0
East (East gable boat house)	38	28	921.1	75	03	00.0
White (Tank)	38	32	709.6	75	03	439.4

Plane Table Positions - Sheet "B"

Station and Description	Latitude ° '	D.M. meters	Longitude ° '	D.P. meters
Out (South gable)	38 34	1512.8	75 03	748.6
Let (Tel. pole)	38 36	872.2	75 03	1051.1
How (East gable of boathouse)	38 38	33.7	75 03	1387.0
Top (Boat top)	38 39	510.2	75 03	1422.7
Tow (Flagpole)	38 41	1221.5	75 04	586.1
Win (Small tank on stand)	38 41	1784.7	75 04	656.1
Red (North gable of dark red end house)	38 42	249.7	75 04	701.2
Mid (Chimney on east end of middle house of three)	38 42	910.2 <i>see new position established by survey T-8502</i>	75 04	810.5
Dark (Chimney on dark house)	38 42	1262.4	75 04	833.5
Flag (Flagpole)	38 43	1.1	75 04	869.9
Hot (Hotel tower)	38 43	566.0	75 04	912.6
Chim (Chimney on house)	38 43	774.1	75 04	985.5
Coast Guard Tower	38 45	1582.7	75 04	1276.5
Flagpole (on C. G. Post)	38 45	1600.3	75 04	1275.3
Pit (Wood tank)	38 47	457.4	75 05	1268.4
Stack	38 47	424.3	75 06	794.4
War (East gable)	38 47	208.9	75 06	1184.6
Oil (Tank on dock)	38 47	102.0	75 07	1081.0

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

February 18, 1930.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4467

Bethany Beach, Del. to Ocean City, Md.

Surveyed in 1929

Instructions dated July 1, 1929 (LYDONIA)

Chief of Party, G. C. Mattison.

Surveyed by C. F. Ehlers.

Inked by E. H. Brown, Jr.

1. All houses should be solid black, and names in pencil should be inked.
2. The junctions with the previous surveys are satisfactory.
3. The survey conforms to the requirements of the specific instructions, but additional roads and other details would have made it more useful as ground control for the contemplated aerial survey.
4. No additional surveying is required.
5. This sheet shows a shrinkage in the projection of .009 and the companion sheet, 4468, has a shrinkage of .007. This excessive shrinkage is probably due to the fact that the projections were constructed in the Washington Office. This appears to indicate that the customary practice of making the projections in the field should be adhered to.
6. Reviewed by E. P. Ellis, February, 1930.

Approved:

E. K. Green

Chief, Section of Field Records (Charts)

J. B. Borden

Chief, Section of Field Work (H. & T.)

L. O. Lobnitz
Chief Chart

AND REFER TO NO. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

February 18, 1930.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4468

Surveyed in 1929

Instructions dated July 1, 1929 (LYDONIA)

Chief of Party, G. C. Mattison.

Surveyed by C. F. Ehlers.

Inked by E. B. Brown, Jr.

1. All small houses should be solid black. The large buildings east of Lewes should be section lined. Names in pencil should be inked.
2. A comparison with T. 2633 shows that the irregular line inside of the shoreline at North Range is a road. As it is likely to be mistaken for a creek it should be erased, or it should be shown as a road.
3. At the northwestern end of the sheet the shoreline has receded 60 meters since the survey in 1882. A resurvey to the north-westward is desirable.
4. In Rehoboth Bay and Indian River Bay the new shoreline joins with the old (T. 226, 1845). In view, however, of the fact that the shoreline has changed in these bays as much as 200 meters, and the old survey is so antiquated, a resurvey should be made of both bays.
5. The junctions with the previous surveys are satisfactory.
6. The survey conforms to the requirements of the specific instructions, but additional roads and other details would have made it more useful as ground control for the contemplated aerial survey.
7. Reviewed by E. P. Ellis, February, 1930.

Approved:

C. K. Green
Chief, Section of Field Records (CHARTS)

E. B. Brown
Chief, Section of Field Work (H. & T.)

G. Thode
Chief, Div. of Hyd'y and Top'y

L. O. Colburn
Chief, Division of Charts

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4467

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 Letter "A"

REGISTER NO. 4467

State Maryland and Delaware

General locality East Coast

Vicinity of Bethany Beach, Del. to Ocean City, Md.
Locality Ocean City, Md., to vicinity of Bethany Beach, Del.

Scale 1:20,000 Date of survey July-November, 1929

Vessel Lydonia

Chief of Party G. C. Mattison

Surveyed by C. F. Ehlers

Inked by E. B. Brown, Jr.

Heights in feet above to ground to tops of trees

Contour Approximate contour Form line interval feet

Instructions dated July 1, 1929

Remarks: Mr. Ehlers died suddenly while engaged on this

project. Sheets were inked at Washington Office in the

Section of Field Work. Field work was practically completed at time of Mr. Ehlers' death.

U. S. GOVERNMENT PRINTING OFFICE: 1925

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4468

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 Letter "B"

REGISTER NO. 4468

State Delaware

General locality ~~East Coast~~ Cape Henlopen
Lewes, Del. to Vicinity of Bethany Beach
Locality ~~Vicinity of Bethany Beach to Lewes, Delaware~~

Scale 1:20,000 Date of survey July-November, 1929

Vessel LYDONIA

Chief of Party G. C. Mattison

Surveyed by C. F. Ehlers

Inked by E. B. Brown, Jr.

Heights in feet above to ground to tops of trees

Contour Approximate contour Form line interval feet

Instructions dated July 1, 1929

Remarks: Mr. Ehlers died suddenly while engaged on this project.

Sheets were inked at the Washington Office in the Section of

U. S. GOVERNMENT PRINTING OFFICE: 1923

Field Work.

Field Work was practically completed at time of Mr.
Ehlers' death.