

2456

2457

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2470

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State:

DESCRIPTIVE REPORT.

Sheet No.

LOCALITY:

from Tuskees
Beach to Belmar
N.J.

1919

CHIEF OF PARTY:

E. B. Satham

11-4645

RECEIVED
DEPT. OF COMMERCE
AUG 15 1919
Asst. No.

2456 2457 2458
2459 2470

Descriptive Report

Additional Work on Topographic sheets

Numbers 2456-2457-2458-2459-2470

June and July 1915

The additional work on the above numbered topographic sheets is indicated in red, and consists of the determination of "natural and artificial objects" for use in the proposed inshore and off shore hydrographic surveys, off the coast of New Jersey, from Tuckers Beach to Belmar.

In addition to the determining of objects, the shore line at inlet inlets, and points at various places was redetermined.

Streets and roads were also determined where no additional time to do so was necessary. If the true alignment of the road built by the New Jersey Highway Board can be obtained, this road can be plotted from the points shown in it on the sheets.

Attached hereto is a list of objects determined, with their elevation above mean high water. For additional points (small poles¹ marked with strips of signal cotton) see the topographic sheets.

E. B. Sacham

Chief of Party U.S. Coast and Geod. Survey

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E. B. Saltham

Chief of Party U.S. Coast and Geod. Survey

O B J E C T S D E T E R M I N E D
W I T H T H E P L A N E T B L E

June and July 1915

Plane table sheets Nos. 2456 2457 2458 2459 2470

Objects and descriptions	Latitude	Longitude	Elevation
Sea Haven Light, Lantern on open steel structure(July5th 1915)	39 29 224m	74 18 326m	24 feet
Flags on 2" by 4" pole (top of flags)	39 29 420m	74 18 110m	30 "
Shanty, north gable	39 29 236m 492m	74 17 708m- 1022m	38--" 30 "
Little Egg Coast Guard Station Cupola	39 29 236m	74 17 708m	38 "
Flags on pole (top flag)	39 29 1382m	74 17 708m	20 "
Tuckers Beach Light Station Cen. of Bld. Chy. near each end	By triangulation { see field Comp. O.B.T. accos. Nos 51586-51590		
flag s on pole (top flag)	39 30 400m	74 17 32m	
Lone house near shore	39 30 910m	74 16 1054m	
Flag on pole	39 30 1530m	74 16 490m	12 feet
Barrel on pole	39 30 240m	74 16 356m	
open frame tower on fish factory has 2 chys, no stack July 6th 1915	39 31 240m	74 20 290m	
Iron stack on brick fish factory prominent should be on chart	39 32 1190m	74 18 328m	90 feet
Flag on pole	39 31 740m	74 15 1234m	18 "
Flags on pole	39 31 1672m	74 15 706m 1234	
Ponds Coast Guard Station Cupola July 1915	39 32 600m	74 15 368m	38 feet
Small yellow building appears as a cupola or tower, has dormer windows surmounted by a bright hemispherical ball.	39 32 718m	74 14 ⁵ 616m	39 feet



Pipe chimney of detached gray

house 39 32 1598m 74 15 120m 42 feet

Flag on 2" by 4" pole 39 32 1282m 74 14 1338m 11 "

Chimney on ell of large white house 39 33 428m 74 14 1322m 50 "
has 2 other chys.

Lone house Chimney 39 33 230m 74 14 1226m

Flags 1 on 2" by 4" Pole 39 33 858m 74 14 562m

Large tank on open steel tower 39 33 ~~484m~~ 74 14 700m 97 feet
1430

Tower east end of Engleside hotel
conical top and small cupola 39 33 1278m 74 14 420m 91 feet
hotel painted yellow

East end of hotel has pole at top 4
three windows and ornament in gable 39 34 492m 74 13 1272m approx 50

Flag on pole 39 33 1604m 74 14 120

Flags on pole 39 34 1066m 74 14 1112

White hotel front gable 39 34 1138m 74 13 824m 42 feet

Long Beach Coast Guard Station

Cupola (new) July 1915 39 35 188m 74 13 488m 48 feet

Flag on 2" by 4" pole 39 35 872m 74 13 28m 15 "

Pehala Yatch Club, Cen Chy. on main

Bld. has terra cotta pipe 39 35 1416m 74⁴ 12 1276m 3 2 "

Flags on 2" by 4" pole 39 36 300 m 74 12 658m 14 "

Chimney on large gray house 39 36 658m 74 12 690m 41 "

Tank on open steel frame 39 36 1420m 74 12 480m 64 "

Yellow house with steep roof 3 windows 39 37⁶ 1264m 74 12 204m 45 "

Flags on pole 39 37 20m 74 11 1244m

Tank on open steel structure 39 37 836m 74 11 1170m 104 feet

Most northerly house in group	39	37	710m	74	11	898m	3
Haul out pole fish pound N. one of two	39	37	1200m	74	11	600m	
Taller of two small houses	39	37	1684m	74	11	340m	
Flags on pole on high sand hill	39	37	1761m	74	11	294m	30 feet
X Ships Bottom Coast Guard Station	39	38	556m	74	11	46m	42 "
Flag on poles	39	39	464m	74	10	362m	13 "
Chimney small house	39	39	628m	74	10	208m	18 "
X Mast on wreck has spar and cordage	39	39	910m	74	09	1464m	
South ho. most southerly of group	39	39	1120m	74	09	1424m	
X Pavilion near shore line	39	39	1206m	74	09	1270m	45 feet
Square open at second story square tower in center							
South chy. of low house has three chys and a vane with goose	39	39	1000m	74	10	1052m	
Flag on pole	39	39	674m	74	10	1382m	
X Gable of green house at crest of hill	39	39 ⁸	1036m	74	10	1148m	40 feet
Flags on pole	39	38	1469m	74	10	892m	12 "
Flags on pole	39	38 ⁹	460m	74	10	360m	13 "
X Red tank on open steel frame	39	39	1520m	74	09	1404m	97 feet
Flags on 2" By 4" pole	39	40	910m	74	09	06m	21 "
Flags on pole	38	40	550m	74	09	568m	20 "
Flags on pole	39	40	1526m	74	08	1455m	20 "
White tree trunk short limbs	39	40	364m	74	08	1004m	
X Harvey Cedars Coast Guard Station Cupola	39	41	806m	74	08	934m	40 feet
X South cupola of Harvey Cedars Hotel Square, surmounted by flag pole	39	41	1560m	74	08	996m	62 "
X Square pavilion open second story square tower north of house on shore	39	41	1298m	74	08	770m	65 feet

Square tower, in group of houses nothing on the top	39	41 ⁴²	530m	74	08	160m	30 feet
Flags on 2" by 4" pole	39	42	46m	74	08	240m	15 "
Flags on 2" by 4 " pole	39	42	576m	74	08	08m	10 feet
Red tank on open steel structure	39						
Red top house, north ermost one three dormer windows	39	42	784	74	08	00m	30 feet
Flags on pole	39 ⁹	42	1254m	74	07	1200m	12 "
Gable of large barn, north west of small Ho. in sand hills	39	42	1804m 56-	74	07	1232m	37 "
Flags on pole	39	43	124m	74	07	1120m	15 "
Flags on pole	39	43	1172m	74	07	470m	
Flags on pole	39	44	192	74	07	194m	32 "
* Flags on pole	39	44	762	74	06	1354m	
Flags on pole	39	44	20m	74	06	770m	
Flags on pole	39	44	1240	74	06	1128m	
* Open cupola on green house	39	45	496m	74	06	728m	49 feet
Small square cupola eastern one of three similar in shape	39	45	458m	74	06	560 m	35 "
Barnegat coast Guard Station cupola	39	45	994m	74	06	140m	Approx 35 ft
West tower of Oceanic hotel	39	45	1332m ²	74	06	374m	70 feet
Flags on pole	39	45	1332m	74	06	190	
* Loveladies Coast Guard Station	# 39	43	1542m	74	07	524m	40 feet
* Spindle north gable of house (no chimney)	39	43	1782	74	08	420m	37 feet

st at wreck(no mark)0 ✓	39	46	297m	74	04	1206	Feet 08 ft
und pole with three flags ✓	39	46	1020m	74	04	1110m 1206	30 feet
ags on 2 " by 4 " pole39 47	39	47	12m	74	04	868m	21 "
gs on 2" by 4" pole	39	47	946m	74	04	812m	12 "
e on Warners House the largest	39	47	1310m	74	04	156m	20 "
in group of small huoses	39	47	1810m	74	04	740m	20 "
ag on 2 " by 4" pole							
Pre Forked River Coast Guard							
Station (cupola)	39	48	332m	74	04	930m	42 "
Box on pole	39	48	930m	74	04	658m	08 "
Flags on 2 " by 4" Pole	39	48	1318m	74	04	602m	20 "
Post at wreck	39	49	000m	74	04	512m 542m	06 "
Flags on 2" / 4" Pole	39	49	614m	74	04	542m	20 "
Braced pole	39	49	1110m	74	04	468m	20 "
Flags on Pole	39	49	1688m	74	04	442m	20 "
Flags on 2" / 4" pole	39	50	948m	74	04	340m	37 "
Flags on pole	39	50	1768m	74	04	440m	20 "
Cedar Creek Coast Guard Station	39	51	224m	74	04	358m	46 "
Flags on 2" / 4" Pole	39	51	886m 448	74	04	186m	18 "
Barrel on pole	39	51	1140m	74	04	150m	15 "
Flags on 2" / 4" pole	39	51	1368m	74	04	130m	21 "
Flags on 2" / 4" pole	39	52	192m	74	04	1408m	18 "
North East one of Two poles with barrels	39	52	808m	74	04	1414m	
Barrel on pole	39	52	1622m	74	04	1378m	25 "
Flags on pole	39m	53	126m	74	04	1361m	20 "
Flags on pole	39	53	868	74	03	1230m	
Island Beach Coast Guard Station	39	53	1392m	74	03	1344m	51m Feet

Red top Cupola on Square house X

39 53 1420m 74 04⁵ 152m 47 Feet

Reads Hotel

Flags on 2"/4" Pole

39 53 1620m 74 04⁴ 1166m 18 "

Chimney of south house in group

gable faces off shore

39 54 590m 74 04 1090m 49 feet

Flags on 2"/4" Pole

39 54 1700m 74 04 976m 30m

on first hill south of Sea Side Park

Tank Sea Side Park, dark on open

steel structure

39 54 1606m 74 04 1401m 100 Feet

Cupola yellow house, only house in

Sea Side Park water front with cupola

39 55 166m 74 04 888m 42 "

Center of four white columns, large

hotel at Sea Side Park

39 55 336m 74 04 860m

Flags on 2"/4" Pole

3

39 55 1438m 74 04 313m

Toms River Coast Guard Station

39 56 190m 74 04 392m 48 Feet

Pole on the North East Cor. Pavilion

39 56 413m 74 04 430m

Flag on 2"/4" Pole

3

39 56 1098m 74 04 340m

Flags on 2"/4" Pole

39 57 1106m 74 04 214

East of Otley Hotel dark Bld.

39 57 724m 74 04 148m 42 "

has chimney near center

Chimney on northernmost Ho. of group

39 57 1026m 74 04 138

Flags on 2"/4" Pole

39 57 1420m 74 04 90m

Chimney on south house of group

39 58 72m 74 04 40m

Chimney of white house has porch

39 58 574m 74 04 00m

flag pole near

Black Water Tank on open

steel structure

39 56 1108m 74 04 948m 120 Feet



Cupola, chimney extends thru roof	39	59	262m	74	03	14 ⁰ / ₄	
Two story white house	39	59	470m	74	03	1326m	
X Chadwick Coast Guard Station	39	59	502m	74	03	1348m	48 Feet
East chimney of two story house	39	59	638m	74	03	1312	
most northerly one of group							
Most southerly of group of houses	39	59	1466m	74	03	932m	
X Ice house with rectangular cupola	39	59	1604m	74	03	916m	42 "
X Old cement House east and west ends	40 3	00	138m	74	03	840m	45 "
fallen in							
Flags on 2" by 4" Pole	40	00	856m	74	03	676m	25 "
Flags on 2" by 4" Pole	40	00	1718	74	03	502	
X Conical roofed Ice House	40 4	00 1	90m	74	03	532m	18 "
Flags on 2" / 4" Pole	40	01	716m	74	03	360m	
V Mantolokin Coast Guard Station By triangulation							36 feet
South chimney of south house in group	40	01	1676m	74	03	184m	45 "
X Tank on open steel structure	40	02	258m ²⁻²⁹⁷	74	03	234m	53 "
North Chy. of N. Ho. in group	40	02	662m	74	03 ²	1609	45 "
Conical rfooded Ice House	40	02	447m	74	02	1571m	25 "
Flags on 2"/4" Pole	40	03	406m	74	02	1301m	20 "
X South East cor. of South house	40	03	100m	74	02	1233m	40 "
in group							
V Bay Head Coast Guard Station	40	04	68m	74	02	1130m	49 "
X Tank Bay head black on open steel frame	40	04	216m	74	02	1234m	120 Fw eet
Chimney northernmost Ho. in group	40	04	842m 68m-	74	02	9 38m	36 Feet
Beacon House (now Beacon by the Sea)							
Tower on east end F.P. cen of tower							By triangulation 60 Feet

Open Cupola on bath House near High Water

line	40	04	1312m	74	02	858m	
Chimney of south house in group	40--04--						
	40	05	64m	74	02	552m	40 Feet
Pavilion	40	05	323m	74	02	484m	
Stand Pipe, black, at Mount Pleasant	40	05	500m	74	02	1182m	137 feet
Leighton Hotel (Square tower has two circular							
white disks on North and south faces						Triangulation Point	70 "
North East Cor. of N. Ho. at Mt Pl.	40	05	1172m	74	002	342m	55 "
South Gable of Pavilion, has bath							
houses to southward	40	0 ⁶	60m	74	02	152m	55 "
White school house, belfry and white							
gable. Shows well from 100° to 140°	40	06	1206	74	04	000	120 feet
Wooden tank on wooden frame	40	06	224m	74	02	636m	59 "
Flag pole, east of row of houses	40	06	722m	74	02	130m	
Telephone pole, marked with signal c							
cotton	40	06	1416m	74	02	54m	
Squan Beach Coast Guard Station	40	06	1772m	74	02	68m	48 "

* ~~Insert here the following stations~~

~~Bay Head Coast Guard Station 40 04~~

pole with large red arrow	40 07	588m	74 01	1455m	25 feet
Beach Hotel, Cupola. North cupola					
has flag pole 		Triangulation Point			72 Feet
Square open cupola, has closed					
cupola 100 meters South of it	40 07	1510m	74 01	1135m	70 "
Flags on pole	40 08	^{90m} 180m	74 01	981m	20 "
Black Tank at Sea Girt	40 08	55m	74 02	726m	97 "
Most southerly Electric light pole	40 08	875m	74 01	768m	
Spring lake has three white globes					
New Monmouth Hotel. Very large					
yellow brick, Hemispherical dome 	40 08	1818m	74 01	776m	128 Feet
flag pole in center, (most prominent					
object for several miles					
Essex and Sussex Hotel, Also of yellow brick					
Green topped Cupola, has F.P.					
and band of electric lights	40 08	1477m	74 01	704m	110 "
around cupola.					
Framed haul out pole, looks					
like derrick	40 ⁰⁹ 08	206m	74 01	440m	65 "
Hotel Wilbert. Now The breakers					
Yellow Cupola		triangulation point			90 "
Center of large white Pavilion	40 09	1038m	74 01	298m	30 "
Cupola Spring, Lake Coast Guard Sta.	40 09	12 28m	74 01	316m	59 "
North Electric light Pole 3 Globes	40 10	^{13m} 617m	74 00	^{83m} 1402m	
Large White hotel Cupola with F.P.	40 10	617m	74 00	1402m	100 "
Flag Pole (no check in longitude)	40 10	1418m	74 00	1142m	120 Feet

ms
POST-OFFICE ADDRESS:

Jersey City N. J.

TELEGRAPH ADDRESS

EXPRESS OFFICE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Str. Hydrographer,

Jersey City, N. J.,

June 15, 1914

To the Superintendent,

Coast and Geodetic Survey,

Washington, D. C.

Sir:-

I have the honor to forward topographic Sheets Nos.
✓ 2470 and 2472, which were sent me to identify the
Life Saving Stations at Long Branch, Deal Lake, Shark
River and Spring Lake.

I have completed this work and the stations have
been marked in pencil. Other changes in the localities
were noted in pencil.

This work was executed in accordance with instructions
of June 9, 1914.

Respectfully yours,

Paul Whitney
Commanding.

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Paul Whitney
Commanding.

2456

Examination of Topographic Sheets

Revision Survey.

by the

Divisions of Field Work and Field Records.

1. Has the magnetic meridian been determined? *No*
2. Is the point occupied for the determination of magnetic meridian designated?
3. Is the approximate or rodded location of high water mark in back of mangroves shown?
4. Have navigable rivers been surveyed?
5. Is interior information given by descriptive legends or otherwise?
6. Is the inking of the sheet legible? *No*
7. Is projection properly shown?
8. Are methods of surveying fully described? *No*
9. Are descriptive legends given concerning conspicuous islets, objects, rocks, and other features given in blank areas?
10. Are geographic names given?
11. Is full information regarding geographic names given in the descriptive report in accordance with paragraph 557 of the Instructions for Field Work?
12. Are the names of topographic signals given?
13. Does the sheet have a neat appearance? *No*
14. Is sufficient contouring shown, some of which could be obtained by sextant directions from boat positions?

15. Is the control good? *No. mention of control for determination of objects.*
16. Is the sheet well laid out?
17. Is the accuracy of traverses between triangulation stations stated in the descriptive report? *No.*
18. Are the elevations of prominent rocks or islets given?
19. Are the description of reefs, as bare, awash or covered at high or low water given?
20. Are objects useful for future surveys indicated? *Yes - object of survey*
21. Is there a record of marking topographic stations?
22. Is the character of the beach shown in various places?
23. Is the plane of reference for elevations given?
24. Is the low water line determined at important places?
25. Is there a full list of data affecting sheet given on title sheet?
26. Is there a list of plane table positions? *Yes*
27. Are the elevations whether that of tree-top or ground indicated?
28. Does the descriptive report give date of instructions? *No*
29. Is a sketch given showing contouring of interior mountainous country beyond limits of sheet?
30. Is the general description of the coast given?
31. Is there information about obtaining fresh water?
32. Have standard symbols for various features been used?

33. Is the survey complete?
-
34. Is there a note as to cultivations, roads and other improvements?
.....
35. Is commercial information given in descriptive report?
36. Is there a list of landmarks? *No. —*

Remarks

*The red ink used to show revision work
was not applied properly ^{by smudging surface of paper} causing it
to run.*

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2459
Revision Survey
Examination of Topographic Sheets

by the

Divisions of Field Work and Field Records.

1. Has the magnetic meridian been determined? *No*
2. Is the point occupied for the determination of magnetic meridian designated?
3. Is the approximate or rodded location of high water mark in back of mangroves shown?
4. Have navigable rivers been surveyed?
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12. Are the names of topographic signals given?
13. Does the sheet have a neat appearance? *No*
14. Is sufficient contouring shown, some of which could be obtained by sextant directions from boat positions?

2457

- 2 -

15. Is the control good? *Not mentioned in S. R.*
16. Is the sheet well laid out?
17. Is the accuracy of traverses between triangulation stations stated
in the descriptive report? *No*
18. Are the elevations of prominent rocks or islets given?
19. Are the description of reefs, as bare, awash or covered at high or
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26. Is there a list of plane table positions? *Yes*
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29. Is a sketch given showing contouring of interior mountainous country
beyond limits of sheet?
30. Is the general description of the coast given?
31. Is there information about obtaining fresh water?
32. Have standard symbols for various features been used?

2453

33. Is the survey complete?
.....
34. Is there a note as to cultivations, roads and other improvements?
.....
35. Is commercial information given in descriptive report?
36. Is there a list of landmarks? *no*

Remarks

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2458

Examination of Topographic Sheets

Revision Survey

by the

Divisions of Field Work and Field Records.

1. Has the magnetic meridian been determined? *no*
2. Is the point occupied for the determination of magnetic meridian designated?
3. Is the approximate or rodded location of high water mark in back of mangroves shown?
4. Have navigable rivers been surveyed?
5. Is interior information given by descriptive legends or otherwise?
6. Is the inking of the sheet legible? *no*
7. Is projection properly shown?
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11. Is full information regarding geographic names given in the descriptive report in accordance with paragraph 557 of the Instructions for Field Work?
12. Are the names of topographic signals given?
13. Does the sheet have a neat appearance? *no*
14. Is sufficient contouring shown, some of which could be obtained by sextant directions from boat positions?

15. Is the control good? *the maintenance of control*.....
16. Is the sheet well laid out?
17. Is the accuracy of traverses between triangulation stations stated in the descriptive report? *no*
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19. Are the description of reefs, as bare, awash or covered at high or low water given?
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2458

33. Is the survey complete?
.....
34. Is there a note as to cultivations, roads and other improvements?
.....
35. Is commercial information given in descriptive report?
36. Is there a list of landmarks? *hw*

Remarks

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.....

Examination of Topographic Sheets

by the

Divisions of Field Work and Field Records.

2459
Russian Survey

1. Has the magnetic meridian been determined? *No*
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18. Are the elevations of prominent rocks or islets given?
19. Are the description of reefs, as bare, awash or covered at high or low water given?
20. Are objects useful for future surveys indicated? *Yes*
21. Is there a record of marking topographic stations?
22. Is the character of the beach shown in various places?
23. Is the plane of reference for elevations given?
24. Is the low water line determined at important places?
25. Is there a full list of data affecting sheet given on title sheet?
26. Is there a list of plane table positions? *Yes*
27. Are the elevations whether that of tree-top or ground indicated?
28. Does the descriptive report give date of instructions? *No*
29. Is a sketch given showing contouring of interior mountainous country beyond limits of sheet?
30. Is the general description of the coast given?
31. Is there information about obtaining fresh water?
32. Have standard symbols for various features been used?

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33. Is the survey complete?
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34. Is there a note as to cultivations, roads and other improvements?
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35. Is commercial information given in descriptive report?
36. Is there a list of landmarks? *kw*

Remarks

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