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Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
....., Director	
<div style="border: 1px solid black; width: 100px; height: 80px; margin: 0 auto;"></div>	
State: <u>Washington</u>	
DESCRIPTIVE REPORT	
<i>Topographic</i> <i>Hydrographic</i>	Sheet No. ⁴ 4251
LOCALITY	
<u>Cape Disappointment</u>	
<u>Sand Island to Klipsan Beach</u>	
1926	
CHIEF OF PARTY	
<u>T.J. Maher</u>	

GOVERNMENT PRINTING OFFICE

U. S. COAST & GEODETIC SURVEY

E. Lester Jones, Director

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET #4 4251

NORTH HEAD - TOWARD WILLAPA BAY, WASH.

U.S.S. GUIDE

Season 1926

Thos. J. Maher, Chief of Party

DESCRIPTIVE REPORT

To Accompany

TOPOGRAPHIC SHEET

No. *4*.....
Scale.. *1:20,000*.....

U. S. S. GUIDE, 1926,

Thos. J. Maher, H & G E, Commanding.

DESCRIPTIVE REPORT

Topographic Sheet #4

U.S.S. GUIDE, Season 1926

Scale: 1:20,000

Limits: Lat. $46^{\circ}-15'$ - $46^{\circ}-29'$
Long. $123^{\circ}-54'$ - $124^{\circ}-06'$

This sheet covers the Washington Coast from Fort Canby on the Columbia River, north, including the North Jetty of the Columbia River and North Head, to Klipsan Beach. It includes Sand Island, and Peacock Spit.

This shore line survey was made according to your verbal instructions of July 7, 1926, and in conformity with the Director's Instructions dated April 17, 1926. Work was commenced on this sheet July 8, 1926; and completed July 30, 1926.

Pursuant to your verbal instructions of August 24, 1926, my party established a portable automatic tide gauge at Fort Canby, Washington; established and leveled in three tidal bench marks; and made a complete topographic survey of Sand Island. This work was done August 25 - 28th, when the party returned to Astoria to start work on Sheet #1.

ORGANIZATION AND TRANSPORTATION. Party consisted of one H & G Engineer, and three hands, each at \$120 per month. Transportation was by White Truck, C & G S #38.

CONTROL was by triangulation, using those stations recovered by Lieutenant Smook in the vicinity of Cape Disappointment, and the traverse stations established by him along the beach to the north. Due to the fact that Lieutenant Smook preceded me by only a few weeks on this work it is felt that recovery notes on the same work would be needless duplication. All of Lieutenant Smook's recovered stations and those he established, were found as he described,

and with the signals standing. Due to their frequency and permanency no additional stations, other than natural objects, were marked by my party.

SHORELINE. All high water line is accurately located, though along Sand Island, Peacock Spit, the spit about the North Jetty, and the beach north of Seaside, where the beach is flat, the high water line is changeable with prevailing winds and currents. Low water line is stepped to it's approximate position.

GENERAL TOPOGRAPHY. The area between the North Jetty of the Columbia River and North Head is fast filling in with sand and drift. Pursuant to my verbal instructions, no attempt was made to go farther back than the beach detail, houses, etc., visible from the beach and waterfront. Blue prints and plans covering that area of land lying between the ocean beach and Willapa Bay, and North of North Head to Ocean Park, are being forwarded with these topographic sheets in order that the office may select what interior detail may be desired.

By using Lieutenant Smook's traverse notes the railroad and highways, as well as the towns can be located on Sheets Nos. 4 and 5. The highways and railroad connecting Ilwaco with the Peninsula towns should be shown.

Following your verbal instructions the waterfront of the headlands on the north side of the Columbia River were contoured, using 20 foot intervals. On the inside hills the contour lines are approximate.

SAND ISLAND lying one-quarter mile east of Cape Disappointment has a shore line of 11-12 statute miles, and an area of about 2 square miles. About one mile broad on the northwest side, it narrows in a southeasterly direction to 100 meters at about half it's length; thence it swings a little south of east for one and three-quarters miles with an average width of 160 meters to where it ends in a decided hook, point to the north. The area is covered by low sand dunes grown with sparse scrub grass and brush. Sand Island is a very important seining location. The long seines are run out by power boats and the ropes to the ends are then hitched to a team of horses, and the seines drawn in. Three fishing camps and stables are maintained on the island during the fishing season. Baker Bay, between Sand Island and the Washington shore, is filling up and only very shoal water separates the island from the Washington mainland.

In point of geographical location Sand Island should belong to the State of Washington, as the main ship channels and body of the

*Marked out by Z. J. ...
Comments on a disputed question
not necessary.*

Columbia River lies between the Island and Oregon.

PEACOCK SPIT. When surveyed in July, 1926, this was an island at high tide. It is changeable area, depending upon the prevailing winds and currents, tides and flood stage of the river. It is also a valuable seining location.

CAPE DISAPPOINTMENT is a rugged promontory forming the southeast tangent of the general headland distinguishing the north side of the mouth of the Columbia River. There is a lighthouse, and a Coast Guard Station. The latter being at Fort Canby on the northeast side of the promontory. A lookout is maintained just west of Cape Disappointment Light.

MC KENZIE HEAD is a prominent isolated, island-like, headland 194 feet high. It is about 300 meters in diameter, and has a small lake against it's base on the southeast side.

NORTH HEAD is the prominent headland forming the western extremity of the general headlands distinguishing the North side of the mouth of the Columbia River. The North Head Light; the wireless tower; and the group of buildings quartering the Navy Radio men, the weather bureau, and lighthouse keepers; are distinguishing land marks.

THE SEA LION ROCKS lay just north of North Head, and are the most prominent group of detached rocks in this vicinity. They are 32½ feet high. A single detached rock lays just off the first point to the south of the Sea Lion Rocks.

TOWNS. There are several towns along the beach north of North Head. These cater to the summer visitor and tourist. Since they are already shown on the charts no attempt was made to put them on the sheet. Seaview and Long Beach, are the only settlements of importance along the ocean front.

KLIPSAN BEACH. There is a Coast Guard Station and Navy Radio Compass maintained at Klipsan Beach.

LAND MARKS. The most conspicuous landmarks on this sheet are: Cape Disappointment and the lighthouse. McKenzie Head. North Head and the lighthouse and radio tower. A large red-colored hotel one and one-quarter miles north of North Head, (called "House" in list of plane table positions), and the group of buildings

at the Klipsan Beach Coast Guard Station. (See lists of plane table positions).

BEACH ROADS. There are highway connections for reaching the beach at low tide at Seaview and Long Beach; also a poor connection at the Klipsan Beach Coast Guard Station. These roads leading down to high water line are made of heavy slab plank laid flat on the sand. Driving on the smooth flat beach at low water is a popular sport, and people come from great distances to speed on the beaches of southern Washington. I am told the beaches are considered under the head of State Highways.

William T. Combs
William T. Combs,
H & G Engineer.

*Approved.
W. T. Combs
Comptroller General.*

U. S. COAST & GEODETIC SURVEY

E. Lester Jones, Director

LIST OF PLANE TABLE POSITIONS
To Accompany

TOPOGRAPHIC SHEET #4.

*North Head to Wana Wilkof Bay
Washington*

U. S. S. GUIDE
1926

Thos. J. Maher, H & G E
Chief of Party

List of plane table positions to accompany Sheet #4

Object or Station	Latitude	D.M. Meters	Longitude	D.P. Meters	Height	Remarks and Description
(Sand Island) Pile	46-15	(562.6) 1290.0	123-57	(189.8) 1095.1		(SI= Sand Island.) Pile North pt.E end SI.
*Range Lt.	" "	(180.1) 1672.5	" 58	(975.7) 309.2		Rear channel range light on SI
Beak	" "	(83.0) 1769.6	" 59	(322.3) 962.6		Red stripe pile bkn (?)
* Light	" "	(337.1) 1515.5	124-00	(1132.8) 152.1		white housed light, low.
* Tank 3	" "	(268.3) 1584.3	" "	(822.1) 462.8		Wooden tank Camp #3, SI
* Tank 2	" 16	(1844.6) 08.0	" "	(603.9) 681.0		Wooden Tank, Camp #2, SI
* Light FR	" 15	(143.5) 1709.1	" "	(197.8) 1087.1		Front Range Light near Camp 2, SI.
* Light RR	" "	(42.0) 1810.6	" "	(251.7) 1033.2		Rear Range light near Camp 2, SI.
Tri	" 16	(1157.0) 695.6	" "	(276.0) 1008.9		Old tripod, Camp #1
Shack	" 17	(1453.0) 399.6	" 01	(897.0) 387.5		Shack near NE end SI.
MAIN LAND						
* Red Light	46-16	(446.2) 1406.4	124-02	(444.5) 840.0		Small low light E side Cape ^{Disappint.}
*Front Range Lt.	45-16	(771.6) 1081.0	" 03	(1235.5) 49.0		Front range light 60 meters east Cape Disapp, LH
Corn	46-16	(1245.8) 606.8	" 02	(110.8) 1174.9		SE corner shack, Peacock Spit.
Green	" "	(415.2) 1437.4	" "	(495.8) 788.7		Small green house, army search light.
Ant	" "	(106.8) 1745.8	" 03	(714.0) 570.5		Small tank on pt.W of Ft. Canby
In (USE)	" "	(614.6) 1338.0	" "	(370.0) 914.9		USE tripod near NE end N Jetty

List of plane table positions to accompany Sheet #4

Object or Station	Latitude	D.M. Meters	Longitude	D.P. Meters	Height	Remarks and Description
Outer	46-15	(303.0) 1549.6	124-05	(957.2) 328.1		N. Jetty. USE tripod near outer end
Ban	" 16	(197.1) 1656.5	" 04	(668.5) 616.4		Drift wood signal near HW line
Bar	46-17	(1185.7) 666.9	" "	(967.1) 317.0		WW barrel on drift tripod
Tall	" "	(758.8) 1093.8	" "	(1126.4) 158.1	50'	50' conical rk off Dead Man's Hollow.
Line	" "	(392.9) 1459.7	" "	(701.3) 583.2		Bird Line south point of narrow gut.
* Vane	" "	(140.2) 1712.4	" "	(602.0) 602.1		Weather Vane, USWB, North Head.
Tope	" 18	(1599.6) 253.0	" "	(489.9) 793.8		Top of rk 20 meters offshore, 320 meters.N of North HeadLt.
Lion	46-18	(1432.4) 420.2	" "	(663.1) 681.0		Highest point, Sealion Rocks
Tan	" "	(1035.4) 817.2	" "	(1144.0) 140.1		tangent WW spot on N bluff.
Malt	" "	(897.6) 955.0	" 03	(149.0) 1135.1		Maltese cross beach rock in Beards Hollow.
Point	" "	(580.9) 1271.7	" "	(21.0) 1263.1	58'	Conical rock, upper beach Beards Hollow.
Spot	" "	(349.9) 1502.7	" "	(71.0) 1213.1		WW spot on S tangent point
* High	" "	(63.0) 1789.6	" "	(438.4) 845.7		bluff Highest gray white cottage on
Low	" 19	(1520.1) 332.5	" "	(613.7) 669.6		S gable of yellow house.
* House	" "	(1409.7) 442.9	" "	(619.1) 664.2		Prominent red colored hotel
Far	" "	(1323.4) 527.2	" "	(638.4) 645.3		Small gy cottage south side of bluff.

List of plane table positions to accompany Sheet

Object or Station	Latitude	D.M. Meters	Longitude	D.P. Meters	Height	Remarks and Description
Road	46-19	(283.1) 1569.5	124-03	(624.1) 659.1		Center of sea view road sign ^{on beach}
Tin	" "	(62.0) 1790.6	" "	(760.4) 523.3		Top of Cistern, brown house.
Chi	" 20	(1465.8) 386.4	" "	(816.2) 467.1		Chimney of yellow house.
Bas	" "	(1265.7) 586.9	" "	(799.9) 483.0		Brown bastion 2nd story rail- ^{ing}
Brown	" "	(685.2) 1167.4	" "	(860.2) 423.1		Brown cottage with yellow trim
Hot	" 21	(1832.6) 20.0	" "	(932.7) 349.8		Center "Hot Baths" sign, Long Beach.
* N. Tank	" "	(1754.6) 98.0	" "	(929.9) 353.0		North bath tank, Long Beach.
Long	" "	(1649.5) 203.1	" "	(871.6) 411.3		Center of "Long Beach" sign on beach.
Yel	" "	(1432.5) 420.1	" "	(911.6) 370.9		High yellow gable
Gray	" "	(716.3) 1136.3	" "	(941.9) 341.0		Prominent gray house, green trim.
Chim	" "	(579.1) 1273.5	" "	(939.9) 343.0		Chimney of house 1st south of d 2 loga.
White	" "	(394.1) 1458.5	" "	(953.9) 329.0		White house south end line of houses.
Gab	" 22	(1652.7) 199.9	" "	(970.0) 312.5		Seaward Gable tall red house
Chal	" "	(1291.4) 561.2	" "	(1003.3) 278.8		S Chimney Red Chalet <i>South of</i> Breakers Hotel
* Sea	" "	(1204.6) 648.0	" "	(1007.3) 274.8		Seaward face top tank, old Breakers Hotel.
N.I.	" "	(372.0) 1480.6	" "	(971.6) 312.9		Driftwood Signal

(4)

List of plane tab positions to accompany Sheet

Object or Station	Latitude	D.M. Meters	Longitude	D.P. Meters	Height	Remarks and Description
Tomb	46-23	(1396.1) 456.5	124-03	(1041.7) 240.4		Marble slab on sand ridge
Sign	" "	(476.2) 1376.4	" "	(1072.6) 209.2		Railway crossing sign
Pole	" "	(73.3) 1779.3	" "	(1058.8) 223.0		Banner on pole
* Log	" 24	(1163.4) 685.2	" "	(1059.8) 222.0		Weathered log cabin
Red	" "	(796.9) 1055.7	" "	(1086.2) 195.2		Prominent red cottage
Cot	" "	(471.8) 1381.8	" "	(1082.9) 198.5		Gray cottage with rotten roof
Bun	" 25	(1751.7) 101.0	" "	(985.3) 296.1		Banner on sand ridge
* Farm	" "	(195.7) 1657.0	" "	(1104.7) 176.3		SW chimney large yellow gy farm house
Stump	" 26	(1363.7) 489.0	" "	(933.8) 347.2		Prominent <i>TJ</i> stump near HW line.
Sig	" "	(420.5) 1432.2	" "	(946.5) 334.1		Driftwood tripod signal
Drif	" 27	(1290.5) 562.2	" "	(937.6) 343.6		Driftwood tripod.
* R.C.	" "	(201.1) 1651.6	" "	(939.1) 341.1		Radio compass, Klipsan Beach
* Steep	" "	(162.5) 1690.2	" "	(1033.5) 246.7		Beach Red roof boathouse, CG Klipsan

*These objects recommended to be charted as landmarks.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4251

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 No. 4

REGISTER NO. 4251

State WASHINGTON

General locality PACIFIC COAST Cape Disappointment
Sand Island to Klipsan Beach

Locality North shore Columbia River, Coast Southern Wash.

Scale 1:20000 Date of survey July 8 - 30, 1926

Vessel USS GUIDE

Chief of Party Thos. J. Maher

Surveyed by Wm. T. Combs

Inked by "

Heights in feet above H.W. to ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval 20 feet

Instructions dated April 17, 1926

Remarks: Revision Coastline, and survey of SAND ISLAND and NORTH HEAD.