Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Director

State: Oregon

DESCRIPTIVE REPORT
Topographic | Hydrographic | Sheet No. 4226

LOCALITY
Coast
Columbia River to
Gearhart

1926

CHIEF OF PARTY
R.F. Luce
DESCRIPTIVE REPORT

TOPOGRAPHY

OREGON COAST 1926
Sheet 1
Latitude 46-02 to latitude 46-14.

INSTRUCTIONS

This work was called for under Instructions from the Director dated April 17, 1926.

GENERAL DESCRIPTION

This section of coast line is composed entirely of flat, sand beach; is almost straight, and extends in a general N.W. by N and S.E. by S. direction. The country immediately back of the beach line is flat, and characterless, and consists mainly of low sand dunes and rolling grassy plains with an occasional small bunch of trees, mostly fir. A broken line of sand dunes, partly covered with vegetation, form a sort of ridge varying from 20 to 60 feet in height which approximately parallels the beach line and obstructs the view of the plains as seen from the beach.

Beyond the northern end of this ridge extends a broad, flat, sand spit covered with drift wood. This spit, while above the reach of average high water, is occasionally breached by severe storms.

TOPOGRAPHIC FEATURES

As stated in the general description the country is flat and characterless and has no topographic features of note. The beach is composed entirely of fine white sand, which between the high and low water line is very level, smooth, and hard packed, and furnishes a
very good driving surface for cars. Above the high water line is a broad strip of soft sand through which it is impossible to drive except at Gearhart and Seaside where approaches have been built. At any stage below half tide a car can be driven from the Necanicum River to the jetty on Clatsop Spit or from the Necanicum south to Tillamook Head.

LANDMARKS

The topographic signals OUT and IN are two detached groups of piling which at one time formed part of the trestle used in building the breakwater. They are easily distinguished at a distance and especially in thick weather furnish small boats with a means of determining their position to the channel when approaching the entrance from the south.

TANK is an old range tower with a square target resembling a water tank. It is about 60 feet high and can be seen for a considerable distance up and down the coast.

Signal TOP is the southern most of two tall radio poles which rise in a small clearing in the center of a grove of fir on the northern end of the sand ridge which parallels the beach. The dark grove against the lighter background furnishes a distinctive landmark.

Station N.R.C. is the thirty five foot tower on the small white building housing the Navy Radio Compass Station. This building in clear sun-shiny weather shows very white and can be seen for considerable distance but in overcast or hazy weather it merges with the background.

Station TAST is a portion of an old wreck projecting about fifteen feet above the sand. It shows black against the background in clear weather.
MAC is a square topped dune covered with dark green vegetation, which shows black from seaward as seen against the white sand. It can be easily recognized as it forms the southern limit of a long white sand ridge about 50 feet high.

Signal BEE is a symmetrically shaped sand dune covered with vegetation. It stands practically alone, is about 35 feet in height and a peculiar furrowed appearance together with its conical shape gives it a marked resemblance to a bee hive. It is locally known as Strawberry Mound.

Station SYLAR is on a lone sand dune covered with dark green vegetation which from the sea appears black. The dune is about 50 feet high and about 4 or 5 times as long. It can be easily recognized because of a similarly shaped dune about half its size 1/2 mile to the south.

SURVEY METHODS

The control for this survey was third order triangulation executed by Lt. L. C. Simmons in June, 1926.

The survey was made with a standard plane table outfit using the general methods of stadia traverse. The high water line, and where possible, the signals, were rodded in. The low water line was rodded at several points during low tide and the remaining distance estimated.

There were no unusual features to this part of the survey. The traverse was checked at each triangulation station and always found to be within the limit of error.

WELL ESTABLISHED LOCAL NAMES

CLATSOP BEACH:-- The entire beach from the mouth of the Columbia to the Necanicum is known locally by this name.
<table>
<thead>
<tr>
<th>Signal</th>
<th>Latitude</th>
<th>Altitude</th>
<th>Longitude</th>
<th>Notes</th>
<th>Height</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out</td>
<td>46 14</td>
<td>Flat</td>
<td>124 02</td>
<td>1232</td>
<td></td>
<td>Center of small section of trestle located on south Columbia Jetty.</td>
</tr>
<tr>
<td>In</td>
<td>46 11</td>
<td>33</td>
<td>124 02</td>
<td>600</td>
<td></td>
<td>Inner end of long section of trestle on south Columbia Jetty.</td>
</tr>
<tr>
<td>Pole</td>
<td>46 13</td>
<td>1385</td>
<td>124 01</td>
<td>366</td>
<td></td>
<td>Lone pile on jetty line.</td>
</tr>
<tr>
<td>Sig</td>
<td>46 12</td>
<td>1584</td>
<td>124 00</td>
<td>523</td>
<td></td>
<td>White cleft signal on line.</td>
</tr>
<tr>
<td>Pole</td>
<td>46 12</td>
<td>636</td>
<td>123 59</td>
<td>1141 25</td>
<td></td>
<td>Bronze pole on beach.</td>
</tr>
<tr>
<td>Hum</td>
<td>44 12</td>
<td>90</td>
<td>123 59</td>
<td>1122</td>
<td></td>
<td>Large green hummock.</td>
</tr>
<tr>
<td>Top</td>
<td>46 11</td>
<td>802</td>
<td>123 58</td>
<td>410</td>
<td></td>
<td>South radio pole, Ft Stevens.</td>
</tr>
<tr>
<td>Mid</td>
<td>46 10</td>
<td>994</td>
<td>123 59</td>
<td>1142</td>
<td></td>
<td>Middle one of three dence trees equally spaced along a ridge.</td>
</tr>
<tr>
<td>Cap</td>
<td>46 09</td>
<td>1321</td>
<td>123 59</td>
<td>770</td>
<td></td>
<td>Giant cormorant巢.</td>
</tr>
<tr>
<td>Spot</td>
<td>46 08</td>
<td>111</td>
<td>123 51</td>
<td>23</td>
<td></td>
<td>Black spot on sand hill.</td>
</tr>
<tr>
<td>Hi</td>
<td>46 08</td>
<td>216</td>
<td>123 54</td>
<td>1034</td>
<td></td>
<td>Chimney of north house on sand hill.</td>
</tr>
<tr>
<td>Lo</td>
<td>46 08</td>
<td>115</td>
<td>123 56</td>
<td>1068</td>
<td></td>
<td>Chimney of south.</td>
</tr>
<tr>
<td>So</td>
<td>46 07</td>
<td>1035</td>
<td>123 56</td>
<td>817</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Snag</td>
<td>46 06</td>
<td>1072</td>
<td>123 56</td>
<td>590</td>
<td></td>
<td>Large root projecting from beach.</td>
</tr>
<tr>
<td>Bee</td>
<td>46 06</td>
<td>113</td>
<td>123 56</td>
<td>348</td>
<td></td>
<td>Beehive shaped sand hill.</td>
</tr>
<tr>
<td>End</td>
<td>46 06</td>
<td>310</td>
<td>123 56</td>
<td>295</td>
<td></td>
<td>North end of long sand ridge.</td>
</tr>
<tr>
<td>Red</td>
<td>46 06</td>
<td>380</td>
<td>123 56</td>
<td>15</td>
<td></td>
<td>Chimney of red house.</td>
</tr>
<tr>
<td>No</td>
<td>46 05</td>
<td>1772</td>
<td>123 56</td>
<td>195</td>
<td></td>
<td>North end of sand ridge.</td>
</tr>
<tr>
<td>Signal</td>
<td>Latitude</td>
<td>Mean</td>
<td>Longitude</td>
<td>North</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>----------</td>
<td>------</td>
<td>-----------</td>
<td>-------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Dlt</td>
<td>46</td>
<td>05</td>
<td>1040</td>
<td>123</td>
<td>Wooden signal on top of long sand ridge</td>
<td></td>
</tr>
<tr>
<td>Hb</td>
<td>46</td>
<td>05</td>
<td>390</td>
<td>123</td>
<td>Fan shaped green dune</td>
<td></td>
</tr>
<tr>
<td>Tri</td>
<td>46</td>
<td>04</td>
<td>525</td>
<td>123</td>
<td>Cloth covered tripod</td>
<td></td>
</tr>
<tr>
<td>Tin</td>
<td>46</td>
<td>03</td>
<td>1777</td>
<td>123</td>
<td>Blue tin boiler used as signal on top of sand hill</td>
<td></td>
</tr>
<tr>
<td>Flat</td>
<td>46</td>
<td>03</td>
<td>655</td>
<td>123</td>
<td>Flat topped sand hill</td>
<td></td>
</tr>
<tr>
<td>Turn</td>
<td>46</td>
<td>02</td>
<td>1535</td>
<td>123</td>
<td>Tumbled down sand hill</td>
<td></td>
</tr>
<tr>
<td>Con</td>
<td>46</td>
<td>02</td>
<td>1034</td>
<td>123</td>
<td>Conical sand dune covered with grass</td>
<td></td>
</tr>
</tbody>
</table>

Copied and checked by [Signature]
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON
April 11, 1927.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4226
Columbia River to Gearhart, Oregon
Surveyed in 1925

Instructions dated April 17, 1926 (PIONEER)

Chief of Party, R. F. Luce.

Surveyed and inked by S. B. Grenell.

1. The records conform to the requirements of the General Instructions.

2. The plan and character of the survey conform to the requirements of the General Instructions.

3. The plan and extent of the survey satisfy the specific instructions except for the omission of the railroad which parallels the beach about one mile inland.

4. The junction with the adjoining survey on the south is adequate.

5. No further surveying is required.

6. The character of the surveying and field drafting is excellent and the scope of the surveying is fair.

7. Reviewed by E. P. Ellis, March, 1927.

Approved:

K. T. Adams
Chief, Section of Field Records (Charts)

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

The shoreline for 4 miles south of the West Jetty as delineated on this sheet is from 40 to 75’ water under for that shown on survey by Lt. Potts same year.
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4226

State . Oregon . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
General locality . . Northern Coast . . . . . . . . . . . . . . . . . . . .
Locality . . Columbia River to Gearhart . . . . . . . . . . . . . . . . .
Chief of party . . . . R. F. Luce . . . . . . . . . . . . . . . . . . . .
Surveyed by . . . . S. B. Grenell . . . . . . . . . . . . . . . . . . .
Date of survey . . . . June, 1926 . . . . . . . . . . . . . . . . . . . .
Scales . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
1:20,000 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
Heights in feet above Mean sea level . . . . . . . . . . . . . . . . . . . .
Contour interval 100 feet . . . . . . . . . . . . . . . . . . . . . . . . .
Inked by S. B. Grenell . . Lettered by S. B. Grenell . . . . . . .
Records accompanying sheet (check those forwarded): Photographs, descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet . . . . . . . . . . . . . . . . .

Remarks: