DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
State: Oregon

DESCRIPTIVE REPORT.
Topographic Sheet No. 4320

LOCALITY:
Multnomah Channel, Multnomah Co.
Columbia River.
Junction Willamette River and Multnomah Channel

1928
1928

CHIEF OF PARTY:
Augustus P. Batti, U. & C. Eng'r.
Descriptive Report to Accompany Topographic Sheet of Multnomah Channel, Multnomah Co., Ore.

Limits and Extent: This sheet covers the junction of the Willamette River and the Multnomah Channel and extends down the Multnomah Channel for a distance of 2 2/3 statute miles. Satisfactory junctions with topographic sheet 1562 were made on both banks of the Willamette River.

General Description: The Multnomah Channel along this section has rather steep clay banks from 16 to 24 feet above low water (U.S.E. datum). There are flat bottom lands on both sides which are flooded by extreme high waters. The West bank of the Willamette River also has rather steep clay banks but the East bank has a more gentle slope at this section. The East bank of the Willamette River seems to be building up but the West bank is changing very little. The Multnomah Channel also seems to be quite stable along this section.

There is a row of piles and dolphins from O Boy to O Com, from O Hap to O Jet, and from O Ben to O Paw. These piling along the banks of the channel are for making fast log booms. Most of the hydrographic signals located were piles and dolphins.

The old dike at the entrance of the Multnomah Channel is submerged at about 12 feet above low water (U.S.E. datum).

Survey Methods: This survey was made by plane table traverse with checks by plane table triangulation and resection. A Start was used for the starting point with azimuth from A Start to A Gatton. A river height of about 5 feet above low water (U.S.E. datum) was used as the high water mark.

Respectfully submitted,

Harvey C. Westby
Aid, C. & G. Survey.

Approved
August 1928

Inspected and found adequate except that
the east shore of Willamette R. opposite
P.O. Bar Front Dr. has built out 220 meters
from the charted location (the same as T. 1562)
and the survey should have been carried up to
45° 38', where the old and new shorelines appear
to join.

E. R. Ellis, Mar. 1928
The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

<table>
<thead>
<tr>
<th>Description</th>
<th>Position</th>
<th>Method of determination</th>
<th>Charts affected</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Latitude</td>
<td>Longitude</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. M. meters</td>
<td>D. F. meters</td>
<td></td>
</tr>
<tr>
<td>P.O.Bar, Front Range</td>
<td>45° 37'</td>
<td>149° 122° 47' 755'</td>
<td>6000, 6154</td>
</tr>
<tr>
<td>Rear Range</td>
<td>45° 37'</td>
<td>170° 122° 47' 604'</td>
<td></td>
</tr>
<tr>
<td>N.Smokestack</td>
<td>49° 37'</td>
<td>173° 122° 49' 325'</td>
<td></td>
</tr>
<tr>
<td>Water Tank (Black)</td>
<td>45° 38'</td>
<td>145° 122° 49' 795'</td>
<td></td>
</tr>
<tr>
<td>Water Tank (Green)</td>
<td>45° 38'</td>
<td>168° 122° 49' 622'</td>
<td></td>
</tr>
</tbody>
</table>

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church steeple, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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. ________________
REGISTER NO. 4320

State. Oregon

General locality. Columbia River, Multnomah County
Junction of Willamette River and Multnomah Channel

Locality. Multnomah Channel

Scale 1-5000 Date of survey Feb. 1928

Vessel. Multnomah Channel Survey Party

Chief of Party. A. P. Ratti

Surveyed by. H. O. Weyl

Inked by. H. O. W

Heights in feet above to ground to tops of trees

Contour. Approximate contour. Form line interval feet

Instructions dated Dec. 23 1927

Remarks: ____________________________

______________________________
G. P. O.