

4320

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Oregon

11-5613

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. Ratti, H. & 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 $2 \frac{2}{3}$ 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 \odot Boy to \odot Com, from \odot Hap to \odot Jet, and from \odot Ben to \odot 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 Δ Start to Δ Gatton. A river high of about 8 feet above low water (U.S.E. datum) was used as the high water mark.

Respectfully submitted,

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

Approved
Augustus P. Rath
H. P. Rath

Inspected and found adequate except that the east shore of Willamette R. opposite P.O. Bar Front St. has built out 220 meters from the charted location (the same as T. 1562) and the survey should have been carried up to $45^{\circ} 38'$ where the old and new shorelines appear to join. *E. P. Ellis, Mar. 1928*

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REG. NO.
4320

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~~

Locality Junction of Willamette River and Multnomah Channel
~~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. Westby

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. 22, 192⁷

Remarks: _____