

2521

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey *Topographic*
Field No. Office No. *2521*

LOCALITY

State *Oregon*
General locality *Columbia*
Locality *River*

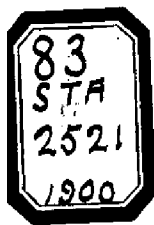
1900

CHIEF OF PARTY

Freemont Morse

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DATE



52747

Descriptive Report to accompany
Topographic sheet entitled;

U.S. Coast and Geodetic Survey

Henry A. Pritchett, Superintendent,

Topography

Columbia River

Resurvey of Shore Line

Ryan's Point to Woods Bar.

Oct. 2-15, 1900.

Scale 1:1000

By Fremont Morse,

Assistant.

Descriptive Report to accompany topographic sheet entitled, "U.S. Coast and Geodetic Survey, Henry S. Pritchett, Superintendent. Topography, Columbia River. Resurvey of Shore Line, Ryans Point to Woods Bar, Oct. 2-15, 1900. Scale 1:100,000. By Fremont Morse, Assistant."

This sheet is, as its name indicates, merely a resurvey of the shore line of the river. Since the original survey by Assistant Cleveland Rockwell in 1891 the annual floods in summer, and especially the great flood of 1894, have washed away the river banks, particularly on the Oregon side, and on the North shore of Government Island. So in order that the sounding lines of the hydrography might fit in with the present shore line it was deemed best to re-run the banks with the plane table.

The greatest change was found on the South bank of the river opposite Ryans Point. Here a sand bank has been deposited outside of the old river bank, nearly half a mile wide at its widest point, and young trees have grown over

a great part of it. One of Assistant Rockwell's triangulation points, "Jungle", was located near the outer edge of this bank, but now its site is over a hundred metres out in the river in about seven feet of water. For a distance of more than a mile in this locality the bank has been washed away for a width of from one hundred to two hundred and fifty metres.

By a reference to Assistant Rockwell's topographic sheet it will be noticed that at the time of his survey a row of piles extended obliquely out from the shore and down the river about a quarter of a mile above this new-formed bank. These piles were evidently driven for the purpose of protecting the bank, but in some places they were washed out and the river has since been eating into the bank unopposed.

The remaining portions of the shore line do not show such marked changes, though erosion is going on slowly along most of the Oregon and Government

Island banks. The amount of wash varies from ten to about fifty meters.

On the Washington side the banks are of harder material, clay and in some places rock and conglomerate, and the changes are practically inappreciable.

Fremont Moore

Assistant