## Descriptive Report

**Form 504**

**U. S. Coast and Geodetic Survey**

**Department of Commerce**

**Type of Survey**
Topographic

**Field No.**

**Office No.** 2521

### Locality

- **State:** Oregon
- **General Locality:** Columbia
- **Locality:** River

**1900**

**Chief of Party**
Freemont Morse

**Library & Archives**

**Date**
Descriptive Report to accompany
Topographic plans entitled,
U.S. Coast and Geodetic Survey
Henry G. Butchett, Superintendent,
Topography
Columbia River
Recovery of Shore Line
Ryan's Point to Woods Bar
Oct. 2-15, 1902
Scale 1/6000
By Freeman Morse.
Assistant.

This sheet is, as its name indicates, merely a resurvey of the Shore line of the point. 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. As evidenced that the surrounding areas of the hydrography might fit in with the present shore line it was deemed best to re-survey the banks with the plane table.

The greatest change was found on the South bank of the river opposite Payne 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<br>Rockwell's triangulation points, "Jungle", was<br>located near the outer edge of this bank,<br>but now its site is on a hundred meters<br>out in the river on about seven feet of<br>water. For a distance of more than<br>a mile in this locality the bank has<br>been washed away for a width of from<br>one hundred to two hundred and fifty<br>meters.

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

The remaining portions of the stone<br>line do not show parallel marked changes,<br>though erosion is going on slowly along<br>most of the Oregon and Government
Island tanks. The amount of wash varies from ten to about fifty quarts.

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

Present More.

Assistant