

party and a rodman carried on their part of the work in conjunction with the men in the boat.

The end of each sounding line was recorded, fixed by the coordinates, azimuth and distance. All distances were taken by stadia

Soundings were taken about every twenty feet along each line, and the lines made an angle of about sixty degrees with the axis of the stream, where it was narrow; the angle increasing with the width of the stream. All important points on the bank and in the river were located and recorded; the roding for this being done by the rear-flag man, who also brought along the other boat.

When the work around one transit station was completed, a new station was set at some convenient point down stream.

At night the boats were tied up and the crew rode back to the quarters in a wagon. The wagon, however, was not used after the work was completed to a point where the launch could be used to carry the men.

The eighteen miles of the river survey took, in all, about eighteen days, including holidays, and cost, approximately, \$613.00, itemized as follows:

Asst. Engr. in charge @ \$250 per month (18 days)	\$150
Instrument-man P \$100 per month (18 days)	60
3 men @ \$75 each (18 days)	135
2 men @ \$60 each (18 days)	72
3 men @ \$45 each (18 days)	81
Man and team @ \$5 per day (5 days)	25
Board for 10 men, 50c per day (18 days)	90

—R. E. Hickson, '09