

riage with the water tank. Thus stripped for the race, the Rocket was started off, and performed the seven miles in the incredibly short space of fourteen minutes, being at the rate of thirty miles an hour. This was a highly interesting exhibition, and gave universal satisfaction.

When the Rocket had run, the Novelty started in order to make a fair experiment of her power, her load being attached, Mr. Vignoles, the engineer, who rode on the Novelty, and timed it, has given the following record of the weights and performances of that engine:

	Tons	Cwt.	Qrs.	Lbs.
Weight of the Engine,	2	15		
Load assigned by the judges, water, coke, and persons on the Engine.	7	11	1	9
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	Tons 10	6	1	9

The Engine went off from the starting post at the rate of 12 miles per hour, and her velocity rapidly increased during the whole trip.

The mile between the quarter post and the Judges' tents, was run in 2 minutes 54 seconds, while the last half mile was run in 85 seconds, being at the rate of 21 1-6 miles per hour.

The whole time between the tents of the Judges, at each end, being exactly 1½ miles, was performed in 4 minutes and 30 seconds, being at the rate of 17½ miles per hour.

It should be remembered, that this experiment was made on a dead level, and that the rails could not be said to be wet, although, from the appearance of the morning, they might be called damp.

On returning, the speed was slackened, and it will be perceived, that the rate was nearly uniform. The whole distance of 1½ mile, between the tents of the judges, was performed in five minutes and fifty four seconds, being at the rate of nearly 15¼ miles an hour. The first mile was precisely at the rate of 15 miles an hour, and the last quarter was done in 56 seconds, being upwards of 16 miles an hour.

There is no doubt, that on a continued forward journey, the Novelty would have freely travelled at the rate of twenty miles per hour. The average rate of her two trips was very nearly 16½ miles an hour, always loaded.

The Novelty, after this highly interesting experiment, ran down to the grand stand, with empty wagons, and then a large assemblage of ladies and gentlemen mounted, among whom we noticed Dr. Traill and his family. The doctor timed the speed of the Novelty while running the full course, and it appears to