COMPLETION AND TESTING OF WAT-KINS GLEN RAILROAD BRIDGE. the Erie railway ; Mr. Barbour, private sec-His retary of Receiv The Grand Structure a Perfect and Most Gratifying Success. lain, Auditor of the Erie; Hon. E. N. Fris-bie, (Elmira) of the Coal and Transportaber bie, (Elmira) of ble, (Elmira) of the Coal and Transported to Department of that road; Mr. Hough, of the Pennsylvania & Erie Road; George M. Diven Esq., Charles J. Langdon Esq., and ex-Mayor Smith, of Elmira; W. T. An announcement, through the papers of this village last week, that the Watkins Glen Railroad Bridge, of the Syracuse, Ge-neva and Corning Railway Co., would be tested at 9 o'clock, on Monday morning, 8 & M. Diven Esq., Charles J. Langdon Esq., and ex-Mayor Smith, of Elmira; W. T. Hamilton, of the Morris Run Coal Mining sat Sept. 24th., drew together at that hour a large crowd from Watkins and all the adja-Company, and other gentlemen from variat ous sections of the State, all of whom spoke cent parts of the county, numbering from 1,500 to 2,000 people. They came in private carriages, public hacks, farm wagous and all of the Bridge, and its highly successful and satisfactory test, in strongest terms of adred miration and praise. other kinds of vehicles, and the vicinity of the bridge, on both sides of the Glen, resem-GENERAL OBSERVATIONS. hnd Watkins Glen Railway Bridge, is beauti-Watkins Glen Railway Bridge, is beautifully and romantically located, and crosses the Glen about a mile west of the Glen Mountain House. It presents a most remarkable sight to visitors passing through the Glen below, and is a great attraction added to the magnificent scenery of this bled a camp meeting ground, so great was adthe throng of eager expectants, men, women and children, some time before the exciting event began to transpire. w-AT HALF PAST NINE the shrill scream of a locomotive, on the south side of the great chasm, 450 feet wide and 150 feet deep, signalled the first test; nes world renowned summer resort, which com-mands the homage of tens of thousands of tourists annually. The view presented in crossing the Bridge is wild, startling and thrilling, and, in connection with this new route, it will give Watkins Glen a greater ble thand in a few moments thereafter the " Anheavy engines, ran out over the yawning abyss, and slowly made its way to the north side, with Mr. H. Clark, the constuct at-L. notoriety than it has hitherto enjoyed. north side, with Mr. H. Clark, the constuction superintendent and a few of his employees, and those of the Railway and Fall Brook Companies, on board. Breathless silence prevailed on both the northern and southern shores, during the crossing, although no one anticipated anything but a success, and the scene presented was inspiring, and fall of grandear, not required in The number of cubic yards of masonry (large and solid blocks of Waterloo limestone) in the piers and abutments of the Bridge, is, to a fraction, 451, and the work, done under contract by James Conway late nilat for ith of Rochester, and now a resident of Watkins is of the very best and most enduring quality—all the masonry on both sides, and at ing, and full of grandeur, not unmixed, in ks the minds of some, with an indefinable feel-ing of tremulousness and fear; the light, airy and skeleton-like, though complicated the center, being based upon the solid rock. No one can inspect these solid and massive irwrought iron structure really seeming, to the uninitiated in such matters, incapable at of standing such a test on its long spans between the central trestle-tower and the northern and southern abutments and piers. ise A SIGH OF RELIEF
escaped many womanly and some manly
breasts, as the Autrim (named in honor of
the country in Ireland from which the father of the late Hon. John Magee, emigrated
this country) proudly passed the center about \$30,000. ks, to this country) proudly passed the center of the northern span, and safely rested on the northern side of the gulf. The engine тег 108 soon returned amid the waving of handker-chiefs and hats, above and below, and in a few moments again passed over, accompan-ied by the heavy Fall Brook Coal Company's ıst ts, locomotive, "J. P. Haskin," the bridge seeming to be no more tried, than as if a pair of feathers or fern leaves had been blown across by the wind. nd THE "ANTRIN "AND "J. P. HASKIN" he kreturned to the starting point, and in a few moments again passed over accompanied by one of the heavy Fall Brook Coal Company in switch locomotives, all three of which had A. of gradually gathered up adventurous passen-gers until they were crowded with human beings. These three mousters of strength ırand power, whose aggregate weight, as will be seen below, was over 164 tons, produced be seen below, was over 164 tons, produced no preceptible effect (to the naked eye) upof to on the bridge though halted, for careful ob-servation by instruments, over the two)rne NO. long spans. ed over at considerable speed, shricking and screaming to the full extent and capacity of their whistles, which fairly made the wel-kin ring for miles around, and woke far and ap es near, the wildest cohose of the Glen. This, the last time, they drew four flat cars heav-ily laden with iron, and a Fall Brook Co.'s A passenger car, all crowded with passengers, 00. (invited and uninvited guests) whose cheers and waving handkerchiefs, hats and caps were well responded to by the enthusinatio multitude below. It was an enchanting spectacle, not soon to be forgotten by those who were so fortunate as to behold it. ic THE TEST
was a very thorough and trying one, the
result one of the most remarkable, trium Y. is as umphapt and satisfactory on record, and all the parties interested and concerned, the contractor of the road, Gen. G. J. Magee, the Niagara Bridge Works, of Buffalo, and th their superintendent of construction in charge, Mr. H. Clark, the Syracuse, Geneva & Corning Railway Co., the Fall Brook Coal Co., and lastly the public along the lf. ng he as whole line of the new road, have abundant reason for mutual congratulation, gratitude and joy, that this grand and imposing structure, the most important and costly on route Corning the y, nevs, has been safely and successfully com-of pleted and proven to be one of the most perfect and substantial works of its class ever erected in this or any other part of the country. THE DEFLECTION in the final test with three en four flat cars loaded with iron, a pass car and hundreds of people, was three engines car and hundreds of people, was only 1-2 an inch at center of the south, or 140 was only g feet span, and 1-4 of an inch at the center of te the north, or 120 feet span; while at the center of the tower work, resting on atone piers at the middle of the Gleu, it was but 10 1-4 of an inch. These results show a most wonderful accumer in the construction, and a perfection of mechanism in putting together, unparalleled in the history of iron bridge building in the United States. THE WEIGHT SUSTAINED was greater than can ever be put upon the spans of the structure, in the ocourse of business, being as follows: the ordinary t | ...250 tone Total, about It is quite evident that this bridge will sustain any amount, in engines, coal, pas-songer and freight trains that can be crowd-ed upon it at good speed, and that it will endure an incredible amount of "wear and tear," so to express it, for 50, and perhaps 100 years to come. DIMENSIONS &C. Watkins Glen Bridge is 450 feet in length, he girder of the first south span being 35 feet the girder of the first so long; the long south span 140 feet; middle tower, at top, 30 feet; north long span 120 feet; north minor or approach spans, 25 feet each (or 125 feet,) the total making the the length above stated. Height above the water level of the Glen to top of rail, on Height above the roadway, 150 feet-the highest iron railway bridge, (except that at Portage) in the inte rior of the State. This kind of a structur is known as the "Rivited Lattice Bridge," This kind of a structure and the two most important officials con-nected with the Niagara Bridge Works, where it was manufactured, are Geo. C. Bell, General Manager, and Samuel J. Fields, Engineer. The officers of the Syracuse Works, Engineer. The officers of the Syraouse Geneva & Corning Railway, now rapidly approaching completion are: John Lang, President and Treasurer, Alexander Olcott, of Corning, Secretary, Gen. G. J. Magee con-tractor for building the Road and A. or for building the Road, and Engineer. The officers of of the Fall Chief Engineer. Brook Coal Company, (which Co. is largely interested in the new Road) are: G. J. Magee, President, John Lang Treasurer, A. Hardt Superintendent. Hardt Superintendent.

DISTINGUISHED VISITORS PRESENT.

Among the distinguished Visitors who for were present at the testing, and crossed the bridge on the engines or cars, in addition to the contractor of the read, the chief engineer, and the Superintendent of the work,

G. R. Blanchard, vice president of Della con

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foundations of the noble superstructure without realizing that Mr. Conway is in-deed a master in the profession which he has chosen. The weight of iron in the structure is 150 tons. According to the best information we have been able to obtain the total cost of the Bridge will be The building of such a grand iron struc-ture, in such a locality, and over such a gorge, has been a task of no easy accom-plishment, but frought with great expense difficulty and danger; and Mr. Clark Superintendent of construction, representing the Niagara Bridge Works, is entitled to great credit for the completion of the work, with-out the loss of life or limb, and without a single accident of any consequence, from be ginning to end. He has managed the trust confided to him with admirable discretion, great care and caution, and with most con-summate tact and ability, and has the heartfelt congratulations of our entire community, on the triumphant success and gratifying conclusion of his long and arduous labors. This noble Bridge will long re-main a proud monument to the enterprise, genius, and mechanical skill of those concerned in its inception and erection; and we trust, defying the action of the elements, be but lightly touched, for many future years, by the hand of Time.

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