

The Artesian Well.

We are indebted to the kindness of Mr. SPANGLER, the Artesian Well borer, for the following particulars respecting the well in the State Capital Grounds :

At the depth of 123 feet below the surface, the augur first struck a hard limestone rock, and at 149 feet limestone water appeared ; at 180 feet sulphur, and at 675 feet salt water veins were struck. At 684 feet slate or shale rock was reached, through which the augur penetrated to the depth of 1974 feet. At the depth of 1445 feet, iron tubing was inserted for 255 feet in length, which prevents the brittle, soft, shelly rock from filling up the cavity.

On Monday morning last, the borings indicated the presence of sand rock, giving the most flattering prospects of a near approach to water. On Wednesday last, the augur reached a depth of 1990 feet, sinking from four to five feet every 24 hours. The workmen are more encouraged at this time than they have ever been heretofore, and we shall not be at all surprised to hear of the entire success of the experiment.

The strata perforated by the augur, may be set down as follows : Loam, sand and gravel, 125 feet ; limestone rock, 561 feet ; slate or shale, 1290 feet ; and sand rock, 14 feet. The bore of the well to the depth of 1700 feet is $4\frac{1}{4}$ inches in diameter, below that $3\frac{1}{8}$ inches. The cost of the work thus far is about \$9,000.

There is an Artesian Well at Louisville, Ky., of three inch bore, and 2086 feet deep. The water rises by its own pressure, when confined in tubes, 170 feet above the surface, and it is said discharges 264 gallons a minute. The St. Louis Artesian Well, at Belcher's Sugar Refinery, is 2199 feet deep, and the water rises 75 feet above the surface of the ground. Some of the Salt Wells near the Ohio and Muskingum and Hocking rivers, are from 1500 to 2000 feet deep.

Pinning our faith to the sleeve of Mr. Spangler, who for ten years has been engaged in the business, we have bright anticipations of the ultimate success of the Artesian Well in the State Capitol Grounds.