A Reservoir on this [Prospect] hill, of a size to contain 1,000,000 gallons of water, will cost $12,600 exclusive of the land and part of which the banks may be built; the highest water in it being 155 feet above the base, and the water 10 feet deep. A Reservoir to contain 2,000,000 gallons, on the same hill, and built in the same manner, will cost $29,516, with the top water 158 feet above the base, and 17 feet deep, in each case using two acres of land for its site.

The hill belonging to Mr. Tamsing, near lock No. 17, Erie canal, contains 7 or 8 acres, with a surface of a general average of 100 feet above the basement; I have made an estimate for a Reservoir on this hill, to contain 3,000,000 gallons of water, and find that it will cost $12,797, exclusive of the land; the surface water in it to be 185 feet above the base, and the water 10 feet deep.

This being of no much greater elevation than Prospect hill, the Reservoir can be constructed of sufficient height with the material taken from its centre, the material thus making capacity for water both by the excavation and embankment. The material is also of much easier excavation than on Prospect hill, and although the stone work will be more expensive, there being more of it, yet a reservoir of 3,000,000 gallons capacity on this hill, will cost but little more than one of 2,000,000 gallons capacity on Prospect hill.

The total cost of the whole introduction of water, with a Reservoir on Mr. Tamsing's hill, of 3,000,000 gallons capacity, will be about $1,500 more than it would with a Reservoir of 1,000,000 gallons capacity on Prospect hill, but the site would not be so much more valuable.

If, however, the Reservoir on Mr. Tamsing's hill should be reduced to 2,000,000 gallons capacity, the total cost of introduction will be less than with that of 1,000,000 gallons on Prospect hill. In other cases, no doubt will be made of the value of the land required for the Reservoir.

It is proposed to pump the water from the highest level of the Cohoes Co.'s canal, by a Jourdan Turbine wheel of 50 horse power, working a double acting pump of sufficient size and stroke to raise 500,000 gallons to the Reservoir in 12 hours, the wheel giving a large surplus of power, which may be used for any other purpose until required for the works.

The rising main to be 10 inches internal diameter and 1757 feet long. The whole height to be pumped is 90 feet. It is proposed to use the present site of the old lock, just north of the Harmony Mills, for the

 Extracts from the Report of James blanc, Chief Engineer of the Water Works.

Excerpts:

"... It is proposed to pump the water from the highest level of the Cohoes Co.'s canal, by a Jourdan Turbine wheel of 50 horse power, working a double acting pump of sufficient size and stroke to raise 500,000 gallons to the Reservoir in 12 hours, the wheel giving a large surplus of power, which may be used for any other purpose until required for the works."

"... The highest point of Prospect Hill is 174 feet above the base, and is situated on the hill nearest the dress canal, whilst the..."