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FIRES IN IRRIGATION.

[illegible] are [illegible] in the use of powder, giving an auxiliary to irrigation methods. The mountain streams and rivers have been largely depended on for water to supply by irrigation without [illegible] or attention were [illegible] for the purpose of conveying the water to people, and even in Utah pumping has been resorted to in many localities to aid the individual in his efforts to secure sufficient irrigating water. Until recently, however, the method of taking the water to a level where it could be easily distributed was a [illegible] successful, owing to the great expense. The latest efforts, however, are all the more encouraging from the fact that they are now taking this method of lifting, and the most gratifying success has attended them, both in the plains of Kansas and Nebraska and the valleys and foothills of the Rocky Mountain and Sierra Nevada ranges.

The progress with pumping plants in California is especially interesting here from the probable necessity of an application of their use in this section of the country. The Petaluma (Cal.) Record states that in that section of the Golden state "irrigation by pumping is becoming more and more than the rule. It has been demonstrated thoroughly and satisfactorily that an inexhaustible supply of water can be lifted that level, and an unlimited flow can be secured with wells by means of the most modern irrigation pumps, which can be operated at reasonable cost."

With the increase in pumping plants there arises also a necessity of small reservoirs connected therewith, and the California Cultivator describes what it regards as a typical plant and reservoir which supplies water for a sixty-acre lemon grove. The reservoir is on the highest part of the land, is of oblong shape, holding 600,000 gallons, and is lined with asphalt and painted inside with a heavy coat of asphalt paint, which manner is completely impervious to gophers and other burrowing animals. It is supplied from a well 150 feet deep, seven inches in diameter; in this the water rises to within 10 feet from the top. An ordinary deep well pump is used, the cylinder being 3X10, and the pipe is a two-inch; this is operated by an eight-horse power gasoline engine, which pumps the water into the reservoir, which is some 30 feet or sixty feet higher than the pumping station, at the rate of 1,200 gallons per hour. The cost for gasoline is given as 15 cents per hour.

Of course the expense of pumping is all for above the new homes here by irrigation canals, yet at more than [illegible] to use for orchards and gardens, and as higher systems of cultivation are employed to more large profit, the more costly methods will be resorted to. Those Utah irrigators who now and keep in touch with methods that are brought out in the eastern agricultural journals, will be in a position to meet any emergency.

HOW SPOILED.

Great [illegible] of the United States in any land of Washington on the 13th instant—Hugh McCulloch, aged 86 years. The deceased had been Secretary of the treasury, for four separate terms, being made by President Lincoln, and a month before the latter's assassination. Only four men, all the time the government was in great financial straits. The financial [illegible] were [illegible] and [illegible] was to be in money and [illegible] yet half million dollars was [illegible] to [illegible] the [illegible] of [illegible] Congress [illegible] Secretary McCulloch [illegible] and [illegible] which [illegible] the [illegible] and [illegible] [illegible] Congress [illegible] Secretary [illegible] [illegible] [illegible]