

and as high as 50 per cent. lead to the ton. Immense ore bodies adaptable to concentration are characteristic of this vein.

The first and second-class ores of the Reco-Goodenough vein (No. 3) are classified respectively, X and XX. The average net proceeds of the total shipments of X ore are \$395.80 per ton. It is a fine grain galena carrying ruby and antimonial silver, grey copper and sulphurets. The average proceeds netted from the XX shipments are \$160.07 per ton. This ore is soft lead carbonates. Assays from it have yielded as high as 1,100 ounces of silver to the ton, and from the former 13,030 ounces, and is acknowledged to be the richest galena in the world.

The classification of the ores is determined by the lead percentage rather than the silver values; the X class running in lead, and the XX comparatively low. In fact the silver values of the XX are often run equal, and at times, in excess, of those of the X shipments. For example, the highest X smelter return is 730 ounces silver and 67 per cent. lead; the lowest X returns, 292 ounces silver and 72.6 per cent. lead while XX shipments have yielded, in one instance, 596 ounces of silver and 54.8 per cent. lead.

INDUSTRIAL NOTES.

Messrs. Felten & Guilleaume, one of the largest wire and rope manufacturers on the Continent, represented in Canada by Messrs. Jack & Robertson, of Montreal, have recently turned out a length of wire towing rope, with a circumference of five and one-half inches, in one length of 100,000 feet, weighing 210 tons.

The Weber Gas & Gasoline Engine Co. of Kansas City, U.S.A., recently received a very flattering testimonial from a gentleman residing at Uman, Yucatan, to whom one of the firm's gasoline engines was supplied. This engine was shipped and satisfactorily set up from printed instructions, several thousand miles from the factory. The letter reads as follows:

"I am pleased to inform you that since the 4th of October last, a Weber Gasoline Engine is running in my hemp estate to my entire satisfaction. This engine is 18 H.P., and runs satisfactorily a Lopez and Lavadores hemp cleaning machine, consuming, during the ten hours it runs per day, twenty

gallons of solarine, which, at forty-five cents per gallon, amounts to \$9.00."

James Leffel & Co., of Springfield, Ohio, are building a 7,000 H.P. plant of six of our Niagara type of water wheels for the Montana Power Company, under sixty feet head pressure, twenty-one mile transmission, for mining, lighting, electric railway, and general power purposes; 1,200 H.P. The first two of these wheels are shipped; the remaining will follow soon. The firm shipped some time ago, a 1,200 H.P. Niagara type of turbine to Utah, for the Telluride Power Company, to operate under 120 feet head, transmission sixty miles, under 40,000 volts, to be used for mining, lighting, and general power purposes.

The Pelton Water Wheel Company reports a large run of business for the last two months. Among the more important shipments may be mentioned: wheels, governors and connections covering a 2,000 h.p. plant for San Rafael Paper mills, Mexico; six wheels for various other localities in Mexico; a 1,200 h.p. wheel with governors and accessories for an electric transmission plant for Petropolis, Brazil (this being a duplicate of their former plant); an electric power transmission plant for Fruijillo, Brazil; seven wheels, with governors, pipe lines and accessories to operate tea and coffee plantations in Java; three wheels for the Ruby Mines in India; two 500 h.p. wheels for operating mills in Tasmania, Australia; three 1,000 h.p. wheels, with governors and accessories, for the Yuba Power Co., Marysville, California; one 200 h.p. wheel for operating the mill of the Dexter Gold Mining Co., Tuscarora, Nevada; nine wheels for various mining operations in California.

The No. 8 Gates Rock and Ore Breaker may well claim the distinction of being the largest rock crusher ever made, and it probably marks the highest limit attainable in a practical way. A recent report of the working of these machines gives a record that will doubtless stand long unexcelled. The Pittsburgh Limestone Co. Ltd., of New Castle, Pa. report officially as having in fourteen months crushed 23,174 cars averaging 24 gross tons each. The working day was ten hours. This gives an average hourly product of over 180 tons for fourteen months. Some of the large daily outputs seem almost incredible. On June 21, 1897, this machine crushed 4,350,000 pounds of rock, or 2,175 tons. This means a freight train of nearly 100 cars.

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