

ing. Power is furnished by a 12x14 Waterous high speed engine.

Special precautions have been taken against fire. A large steam pump is installed in the engine room, and a system of pipes leads to hydrants at various points on the mill floor and in the yard. Hose is attached to these hydrants in readiness for immediate use. Two large hose reels are also provided for use in the yard. The company have constructed a reservoir of 60,000 gallons capacity, situated at a point on the hillside, which will give a pressure of 60 to 65 lbs. per square inch on the mill floor. The buildings are roofed throughout with iron and are carefully lime washed inside.

A noteworthy feature of the construction of the mill is the foundations which are placed under the engines and the gang saw. In order to get above high water level it was found

circles, having been M. P. P. for Parry Sound for the past eight years.

The office management is in charge of Mr. W. B. W. Armstrong, who was associated with Mr. Beatty in the lumber business in the east.

The operating staff consists of J. D. Ken-



MR. W. W. FRASER,
Secretary-Treasurer Arrowhead Lumber Company.

nedy, mill foreman; J. J. Woodland, planer foreman; Rand Gibbons, shipper and yard foreman, J. H. Linton, head filer. The disposition of the product of the mill is in the hands of T. A. Cuddy, one of the best known lumber salesmen in the west.

CONVENTION OF COOPERAGE STOCK MANUFACTURERS.

The annual convention of the National Slack Cooperage Manufacturers' Association opened in the Cadillac Hotel, Detroit, Mich., at 10.30 a. m. on November 1. President Wylie, in his opening remarks, stated that the scarcity of timber would compel the price of

1 stave or a mill run stave. Some put in low grades and were therefore in a position to accept a lower price for their stock. It was believed that a uniform grade would be a benefit to the trade. Some of the members advocated the adoption of a specification as to the quantity of staves which should constitute a car load and a committee was appointed to report on the question at the next regular meeting.

Mr. James Innes, of Chatham, Ont., read a paper on "The Necessity of Understanding the Manufacture of Cooperage Stock before Entering the Business," and Mr. W. C. Hartman, of Detroit, submitted a paper on "Sales-



MR. GEO. MCCORMICK, M. P.,
Director Arrowhead Lumber Company.

manship in the Cooperage Stock Business." The Canadian Cooperage Manufacturing Company, Galetta, Ont., and John Hayne, Bridgen, Ont., were admitted as members of the association.

Those present at the convention from Canada were: H. L. Merritt, Blenheim; John



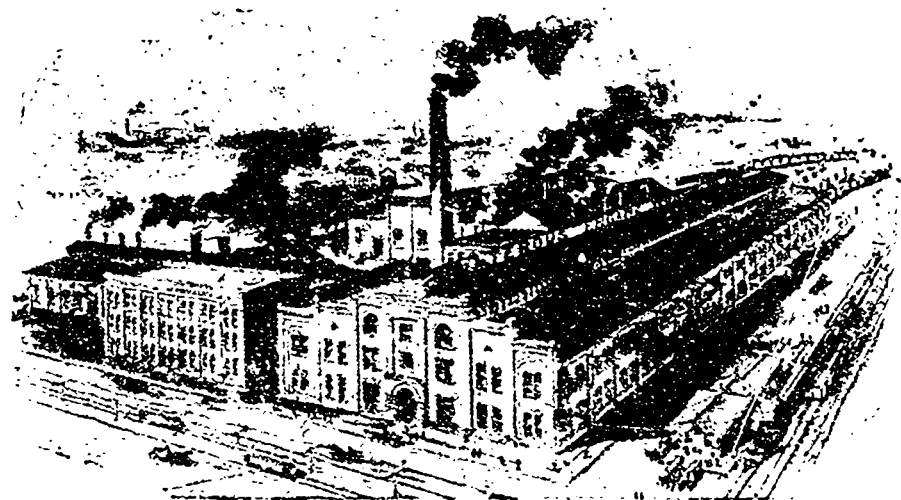
MR. W. R. BEATTY,
Managing Director Arrowhead Lumber Company.

necessary to build these concrete foundations 25 feet in height, necessitating a vast amount of material and a great deal of labor.

Owing to the formation of the shore it has been found necessary to construct all of the piling room, which has been done by means of pile driving. The platform is nearly a quarter of a mile long, varying in width from 90 to 150 feet. On this platform a system of steel rail track is laid, upon which are operated the lumber cars to and from the mill. This platform parallels the siding which has been extended from Arrowhead station and will be very convenient for loading.

For logging purposes, the company have constructed at Deep Creek a logging chute half a mile in length. Their limits comprise ninety-square miles along the shores of the Columbia river and the Upper Arrow lake, the logs being towed to the mills by the company's own tug.

Mr. W. R. Beatty, the managing director of the company, was a successful lumberman in Ontario. He is also well known in political



WORKS OF THE WATEROUS ENGINE WORKS COMPANY, BRANTFORD, ONT.,
Manufacturers of the Plant Installed by the Arrowhead Lumber Company.

elm staves to remain firm. The value of log run elm lumber was \$25 per thousand, and in many cases it brought even more than this price. He suggested that curtailment should be the watchword of the trade. There was some discussion on the question of grades, during which it was stated that every millman had his own ideas as to what constituted a No.

Hayne, Bridgen; D. K. Menzies, Niebergall Stave and Lumber Co., Staples; H. D. Chapman, Canadian Cooperage Co., Galetta; A.A. Scott, McGregor; Edw. Smith, Leamington; W. H. West, Jas. Innes, Mr. Fleming, Sutherland-Innes Co., Chatham; Neil Watson, Mull; J. L. Reaume, J. L. Reaume & Co., Essex.