

The engines above described drive 6 Triplex double acting pumps, made by Glenfield & Kennedy, of Kilmarnock, Scotland.

The pumps are furnished with suction and discharge mains, 20 inches in diameter, in duplicate, all pumps being connected with both mains, either main being of sufficient capacity for the whole plant.

The pumps take their water from a well, which is divided into two compartments, either of which will supply the whole plant.

The water is conducted to the well by an intake pipe 3 feet in diameter, which extends for a distance of 425 ft. from the well to the deep water in the River, where it ends in a stone ballasted crib.

Producer Gas System.—The Gas Producer Plant may be described as follows:

It consists of 4 Crossley type Producers; 2 of 500 Horse Power, each 8ft. 6 in. in diameter, by 18 ft. in height, and 2 of 1,000 Horse Power, each 11 ft. in diameter by 18 ft. in height, with necessary platforms, hoppers and piping.

This plant has an overload capacity of 50 per cent. with selected coal, and readily makes gas from Anthracite, Lignite or any non-caking bituminous coal; the latter can, however, be burned to a limited extent, under certain conditions.

The coal for use in the plant is delivered on track adjoining the building, and unloaded into a hopper having a capacity of 100 tons.

Elevator and Conveyor.—An elevator fitted with a rotary feeding gear to ensure regular feed without choking, raises the coal to a horizontal conveyor placed above the producer hoppers.