

ABBEEY COAL AND MINING Co., COLLIERY No. 3, COLLINSVILLE.

A number of improvements have been made at this shaft during the year. A new hoisting engine, cylinder 14x20, has been set up, an entire new head frame erected, and 10 locomotive chutes put up with new platforms. A new engine house has been erected with water tanks, etc., the works having all been covered in with corrugated iron, and two new boilers are now being set up. The capacity of the mine has been considerably increased. The coal is all mined by machinery. The Harrison machines are being used and an average of 7 machines are in operation daily, each machine having a capacity of 65 to 70 tons. The machine miners, loaders, blasters, timbermen, etc., are all paid by the day. There are on an average about 11 men to each machine, including loaders and timbermen. This is the most successful machine mine in the 4th district.

General Manager, W. R. Crandall; Superintendent, Wm. Fletcher; Mine Manager, Peter Greaves.

LUMAGHI'S MINE.

This mine has been run only about one-half the time during the year, owing to disputes about the weighing of coal and other matters. The operator put up a scale to weigh the coal as it came out of the shaft, a certain per centage being allowed for slack. The operator claimed the coal would not hold out when hauled off the cars in St. Louis, hence the stopping. A fan will be erected at the escapement shaft to improve the ventilation of the mine.

Jos. Lumaghi, Sup't; Jas. McKernan, Manager.

COLLINSVILLE COAL AND MINING Co.

This shaft has worked very steadily during the year. A new 10 foot fan has been erected at the escapement shaft, doing away with the furnace, and increasing the ventilation fully one-half. Putting in the fan enables the operator to get coal in parts of the mine where it could not be got while using the old furnace, as the shaft was too shallow to successfully use a furnace.

Jos. Wickliff, Sup't; Martin Fulton, Mine Manager.

CANTEEN COAL AND MINING Co.

This mine has been worked very steadily during the year. A new 10 foot fan has been erected at the escapement shaft, worked by wire rope gearing, the power being transmitted by wire rope from the screen engine. Bearing wheels made of wood are set on posts about 30 feet from the ground. The engine is kept running continually for the fan, and when the screens are to be used connection is made by clutch gearing; a  $\frac{3}{4}$  tiller rope is used to transmit the power, and the fan gives adequate ventilation for the mine.

George Gerding, Manager.

HEINTZ' BLUFF COAL AND MINING Co.

This mine has been worked very successfully during the year, and has been well managed. The works have been opened up on the double entry system. The manager is now putting in machines for mining the coal. A Norwalk compressor and Harrison mining machines will be used. A 10 foot fan will be erected at the escapement shaft, to be run by rope gearing, the power to be transmitted by wire rope from the screen engine, a distance of 700 feet. The hoisting shaft has been partly retimbered during the year.

Howard Wickliff, Sup't; R. Lindley, Mine Manager.

BROOKSIDE COAL Co.

This mine has been worked very steadily during the year. The ventilation has been improved by removing the fan to the new escapement shaft. A 48 inch Murphy fan is used for ventilation, ladders have been put in the escapement shaft, and the mine at present is in very good order.

Wm. Freaudanan, Sup't; John Evans, Jr., Mine Manager.

CONFIDENCE COAL MINING Co.

This is a machine shaft, working on an average 5 Harrison machines. The mine has worked very smoothly during the year. The works are starting up on the double entry system, which will give a better chance to carry the air up to the working face. Part of the escapement shaft has been retimbered.

Jule Weisenberg, Sup't; Felix Smith, Mine Manager.

WOLF & BROS. COAL MINE.

This mine has been opened up during the year with double entries, all single entry work being abandoned, and a new 10 foot Brazil fan has been erected at the escapement shaft. The works are now well ventilated, and the management of the mine is very good.

Otto Wolf, Sup't; Jos. Schawyer, Manager.

TROY COAL AND MINING Co.

The coal seam at this mine is No. 7 of the general strata of the State; the coal is of a very fine quality and very dense. Experiments have been made during the year to work the coal on the long-wall system, but failed. The roof slate breaks off short, and will not pull over the top of the coal. The present mode of working is to drive entries 22 feet wide with a building of slate in the centre, making virtually double entries, and carrying the air to the face. Bolt holes for hauling roads are driven from the sides of entries, and after passing in for a distance of 20 feet are holed, and a breast of coal 100 feet wide taken up, meeting a breast of coal 100 feet wide coming from entry above. This is a machine shaft, an average of 5 Harrison machines being used. An escapement shaft will be sunk this fall.

Donk Bros., Managers. John Evans, Mine Manager.