

A new shaft has been sunk and put in operation by Henry Horn, at DuQuoin, Perry county. The shaft is located about $1\frac{1}{2}$ miles from the city. Mr. Horn has built a railroad track from the mine to the city, at which point it connects with the main line of the Illinois Central R. R. The plant has been erected with a view to handling a large output.

A new shaft has been sunk by the L. & N. Mining Co., of Belleville. Commenced shipping coal on June 3, 1889.

The Valley and Gulf Coal Co., of Sparta, has equipped its new shaft with Murray's latest improved automatic dumping cages. The plant at this mine has been erected with a view to handling a large output.

I. Johnson & Co.'s mine at Marissa, has been opened and put in operation during the year; they are now sinking an air shaft and have erected a fan at the hoisting shaft.

F. Murphy's shaft No. 2, located at Belleville, has been put in operation during the year, and he has now completed the air shaft.

James Doyle's new drift is now in operation.

Davis & Steel, located at French Village, have a new mine, supplying the local trade. It is operated by steam engine, etc.

J. Charleston has also opened a new slope at French Village, to supply local trade.

Joseph Taylor's mine at Alma, has just been put in operation. He has built an extensive switch from the main line of the Ohio and Mississippi R. R. to the shaft.

A new shaft has been sunk at DuQuoin by the Superior Coal Company, and it has completed an escapement shaft. The company is doing a fair business, shipping the entire output to St. Louis. The mine is located on the Cairo Short Line R. R.

Jupiter Mining Co. sunk a shaft at DuQuoin and commenced to hoist coal November 1, 1888, since which time the company has made wonderful progress with their developments. The mine is located on the Cairo Short Line R. R., and the product of the mine is shipped to St. Louis and the northwest. The escapement shaft is completed, and a twelve-foot fan erected.

The following mines have also been sunk and put in operation during the year: Bruggeman & Hartman, No. 3, Betts & Richard, Avery & Co., Yock's mine and Hy. Taylor, Belleville; Randle Coal Co., Freeburgh, and G. W. Brown, Pinckneyville.

Improvements—In Marion county the Kinmundy Coal Co. have adopted the long-wall system of working the coal, in order to improve its marketable condition; new ropes have been put in the shaft, and a new twelve-foot fan has been erected which is giving satisfactory results; the building surrounding the shaft has been made fire-proof.

In Washington county several improvements have been made at the Nashville mine, such as putting in new ropes, repairing cages, mending boilers and reconstructing ladders in escapement shaft.

At the Breese mines, Clinton county, owned and operated by the Consolidated Coal Co., of St. Louis, Mo., there has been erected a new air compressor and new boilers; also a new drum; hoisting ropes have been put in; a depth of 250 feet has been reached with the escapement shaft, which is expected to be completed by the 1st of September, 1889; being a very dusty mine, sprinkling the roads with water has been adopted as a precaution against dust explosion.

By the construction of an air crossing, and the repairing of the shaft partitions, ventilation has been greatly improved in the mine owned and operated by the Odin Coal Co., Odin, Marion county. New cages have been put in and the buildings covered with fire-proof material.

The DuBois Coal Co., at DuBois, Washington county, have re-timbered their escapement shaft, and made it perfectly secure for the purpose for which escapement shafts are intended. The company have also made extensive repairs on the hoisting engine, steam boiler and pit head frame. A new ten-foot fan has replaced the furnace, and the general conditions at this mine are fair.

It was found necessary to stop the south side of the Perry County Coal Co.'s mine at DuQuoin, on account of its being insufficiently ventilated. After having explained to the superintendent, the advantages which would be derived by abandoning this portion of the mine, he cheerfully acquiesced in its being closed, since which the sanitary condition of the mine has been greatly improved.

At shaft No. 5, of the St. Louis Ore and Steel Co., Murphysboro, a twelve-foot fan has been erected, designed and constructed by J. D. Peters, the superintendent. This fan is supplying a large volume of air, which is conveyed to the working places by the three-entry system; new ropes have also been put in the mine.

A new air-shaft has been sunk at the Bryden Coal Co.'s mine, at Ava, Jackson county, improving ventilation greatly. Ladders have also been placed in the shaft.

A new fan has been put in at the Gartside, No. 4 shaft, Belleville. This mine is operated by the Consolidated Coal Co., of St. Louis, Mo.

The Bessemer Coal Co.'s shaft at Summerfield, St. Clair county, has undergone many improvements during the year. Ventilation has been increased by the erection of an eight-foot fan, which is run at a velocity of 200 revolutions per minute. The Westinghouse system of electric dynamos is in operation at this mine; the company is experimenting with an electric mining machine, which is the invention Mr. J. Smith, of St. Louis, who is a stockholder in