

and boiler house are constructed with corrugated iron. A 30,000-gallon water tank, and a coal washer having a capacity of 100 tons per hour have been installed.

A new mine has been put in operation during the year one mile south of the city of Auburn, Sangamon county, on the line of the C. & A. railroad, which will be known as the Black Diamond Coal Co., and owned by Robert Solomon & Sons. The main shaft is 8 feet 6 inches by 14 feet; the air shaft is 8 feet 6 inches by 15 feet 10 inches; a substantial stairway is in the air shaft for escapement; each shaft is 293 feet deep. For ventilation, a 16-foot fan has been erected; the hoisting engines are 24x36 inches, with self-dumping cages and shaking screens. The steam power is generated by four boilers—two plain cylinder and two tubular boilers; the engine, boiler and fan houses are of brick, and said to be fire proof; the tower and tippie houses are built of wood; an electric machine has been installed for cutting the coal by cutters operated by a 19x18in. engine geared direct to a 150 K. W. generator. The mine is now being opened out with a view of having a large output the coming year.

**A new mine has been put in operation during the year at Cora, Sangamon county on the line of the C. P. & St. L. R. R., and will be known as the Cora Coal Co. The main shaft is 7x14 feet; the air shaft is not yet completed; good machinery and boiler power has been put in, also dump cages and shaking screens.**

A new mine has been put in operation during the year by the Springfield Colliery Co., located at Springfield, Sangamon county. Both the main and escape shafts have been sunk to the coal; the hoisting shaft is 16 feet 6 inches by 10 feet; the air and escapement shaft is 14 feet 6 inches by 7 feet; the escapement chamber is 5x7 feet, with a suitable stairway. The hoisting engine is 24x36 inches; three Erie boilers have been set up, each one is 150 horse power.

The mine is located on the C. & A. R. R., and everything in the way of equipment will be up to date when the mine is completed. The officers of the company are H. C. Adams, president; C. F. Evans, vice president; D. W. Heath, secretary and treasurer. The main office of the company is located at 975 Old Colony building, Chicago.

#### IMPROVEMENTS IN MINES.

At mine No. 6, Staunton, Macoupin county, owned by the Consolidated Coal Co., there has been installed one John O'Brien boiler, 6x18 feet with 70 four-inch tubes rated at 157 horse power. Pipes have been placed for pneumatic signals, but are not yet in operation on account of the air chambers not being received.

At mine No. 7, Staunton, Macoupin county, owned by the Consolidated Coal Co., there has been constructed a new wooden tippie with self-dumping cages and shaker screens. The 8-foot Murphy fan has been removed, and a 22-foot Duncan fan put in its place. Two John O'Brien boilers, 6 by 18 feet, with 70 4-inch tubes have been installed. The main haulage ways have been re-laid with 30-pound steel rails, taking the place of the 12-pound rails; this improvement is made with a view of putting in electric haulage. The foundation of the hoisting engine has been renewed; an iron hoisting drum has been put in, replacing one made of wood. Pipes have been placed for pneumatic signals, and will be in operation in a short time.

At mine No. 8, located at Mt. Olive, Macoupin county, owned by the Consolidated Coal Co., a new wooden tippie has been constructed; self-dumping cages and shaker screens have also been introduced. Two John O'Brien boilers, 72 inches by 18 feet have been installed, each boiler having 70 four-inch tubes and rated at 157 horse-power. There has also been installed one 250 K. W. generator of the general electric type. The main east and west entries, also the 14th south on the east side have been laid with 30-pound steel rails. Two 10-ton general electric mine motors have also been put in operation; pneumatic signals have been put in and are now in operation.

At mine No. 10, also located at Mt. Olive, Macoupin county, owned by the Consolidated Coal Co., two John O'Brien boilers have been installed, each 72 inches by 18 feet, with 70 four-inch tubes; they are rated at 157 horse-power; an overcast has been constructed in the west entry into the 6th, 11th and 15th north entries.