

at 10 per cent. less cost, is equal to Connelsville, Pa., coke for smelting purposes. The freight on coke by rail or river from Pennsylvania to St. Louis is greater than the cost of the coke from the Brookside seam of coal laid down in St. Louis, and this difference of cost, and, in fact, the cheap iron produced in Alabama, compels the smelters of Missouri ore to look for a cheaper coke. There is no doubt that the Brookside coke will be extensively used in the future.

Wm. Freaudanan, Manager; John Evans, Underground Manager.

#### TROY COAL AND MINING COMPANY.

This shaft is located on the St. Louis, Vandalia and Terre Haute Railroad, adjoining the corporate limits of the village of Troy. This is a new colliery, the shaft having been sunk within the last year. The works will be started on the double-entry plan, and the coal will be mined with coal cutting machines. A Norwalk compressor has been erected and five Harrison coal cutting machines will be used during the year. The shaft is 278 feet deep, coal averaging 5 feet.

Manager, A. D. Donk; Underground Manager, Richard Dingle.

#### WOLF & BROS. COAL MINE.

This mine is located in the corporate limits of the village of Edwardsville and is connected by coal tracks with the Wabash, St. Louis and Pacific and Toledo, Cincinnati and St. Louis Railroads. The shaft is 217 feet deep. The coal has an average thickness of 5 feet 6 inches. The coal is hoisted by a single engine 10x22, second motion. Drum, 5 feet; rope, 1 inch; screens, 1 inch by 10 feet; and for weighing the coal top scales are used. This company has sunk an escapement shaft during the year. The ventilation of the mine at present is by steam jet; the company intends, however, putting in a ventilating fan. The works are laid off on double and single entry plan.

Manager, Otto Wolf; Underground Manager, Joseph Schawyer.

#### FRANK SHUMACH'S MINE.

This mine is located within the city of Edwardsville, and on the spur of the Wabash, St. Louis and Pacific Railroad leading to the center of the city. The shaft is 136 feet deep. The coal has an average thickness of 5½ feet. The coal is worked by pillar and room and single-entry. There is an average of 20 miners employed during the year. The operator is at present sinking a new shaft. The old shaft is about worked out. The new shaft will be opened up on double-entry and the coal worked in better shape.

#### WORDEN COAL AND MINING COMPANY.

This mine is situated on the Wabash, St. Louis and Pacific Railroad, adjoining the village of Worden. The shaft is 270 feet deep, the coal averaging 6 feet 10 inches in thickness. Top scales are used for weighing the coal. The company works an average of

70 miners. Hoisting engine, 10x20; boiler, 42 inches by 20 feet; drum, 6 feet; rope, 1 inch; screens, ¾ inch by 12 feet. The company has put up during the year a 10x3 inch ventilating fan.

Manager, H. H. Lucker; Underground Manager, John Ax.

#### WABASH COAL AND MINING COMPANY.

This shaft is situated on the Wabash, St. Louis and Pacific Railroad, one-half mile east of Worden. The shaft is 175 feet deep. The coal will average 7 feet in thickness. The company works on an average 25 miners. The hoisting engine is double, 10x18, cylinders standing at an angle of 45 degrees. Hoisting drum, 5 feet; rope, 1¼ inches; one boiler, 42 inches by 22 feet; screen, 1 inch by 10 feet. Top scale for weighing the coal. This company has stopped mining since July 1, 1834. There was an escapement shaft started, but is now abandoned.

Manager, Robt. Zesch.

#### MCDONALD COAL AND MINING COMPANY.

This shaft is situated on the Wabash, St. Louis & Pacific Railroad, one mile east of Worden. The shaft is 300 feet deep. The coal will average 7 feet in thickness. This is a new mine. The company worked on an average 20 miners last year. Hoisting engine is single, 14x28; drum, 7 feet and rope 1½ inch. Top scales are used for weighing the coal. Screens, 1 inch by 12 feet. An escapement shaft has been sunk during the year and a 10x3 feet ventilating fan put up. This company is experimenting with a coal cutting machine, the invention of Dr. McDonald, the manager of the mine.

#### AUBURN COAL AND TILE COMPANY. SANGAMON

This shaft is located within the corporate limits of the village of Auburn, on the line of the Chicago, Alton and St. Louis Railroad. The depth of the shaft is 268 feet, the coal having an average thickness of 6½ feet. The mine is worked by pillar and room, and double entries. The company has just finished an escapement shaft. The shaft is at present ventilated by a furnace, though it is the intention of the company to erect a fan at the escapement shaft. The coal is hoisted by a pair of double engines, on second motion; the engines are 10x16, geared 5 to 1. The hoisting drum is 5 feet in diameter, one inch steel ropes are used for hoisting.

Manager, H. Dawson, Jr.; P. M. Yoakley, Underground Manager.

#### WABASH COAL AND MINING COMPANY.

Shaft No. 1 is located one mile south of the city of Springfield, at the intersection of the Wabash, St. Louis and Pacific Railroad and the Chicago, Alton and St. Louis Railroad. The shaft is 250 feet deep, the coal averaging 5½ feet in thickness. This is one of the oldest mines in Sangamon county. The working face of the rooms is nearly a mile from the bottom of the shaft. The coal is hauled to the shaft bottom by mules, which is very expensive and reduces the profits of the company. Machinery ought to be introduced for