

water gauge. The tippie is constructed of steel throughout, with three tracks and provisions for a rescreeener and washer in connection. The ropes are one and one-fourth inch and are carried down the shaft over three-foot wheels. The boiler room is of brick, 44 by 36 feet, with four boilers installed, 150 horse power each, with room for four more boilers. The smoke stack is of fire brick, eight feet in diameter and 100 feet high. It was built by the Alphons-Custodis Chimney Company. Water is supplied to the boilers and to the fire protected area of the mine from a tank 16 by 24 feet, with a capacity of 48,500 gallons. The engine room is brick, 24 by 2 feet, and contains a pair of Danville hoisting engines, 24 by 42 inches, connected to double drums eight feet in diameter. There is also one Western Electric generator, 300 K. W., 250 volts; the belt is connected to a Vilter Manufacturing Company engine, 24 by 48 inches. The belt wheel on the engine is 36 inches by 18 feet and on the generator 42 by 42 inches. Also, there is a blacksmith and machine shop combined, which is of brick, and is 30 by 70 feet; also an oil house and a powder house, both of brick. In fact, all of the buildings are brick, with red tile roofs and are fireproof throughout. The pit cars will hold four tons, and the ultimate output is expected to reach four thousand tons in eight hours.

During the year the Hart-Williams Coal Company, Benton, Franklin county, added the following to its equipment: Six Morgan Gardner chain breast machines; two Kewanee boilers, 150 H. P., 72 inches by 18 feet, making six in all; two fifty pound Dupont trip hammers; one brick house with hot water heating plant for keeping carbonite at an even temperature all the time; one frame house for stable boss; one track 2,600 feet long, for empty cars for loading; one track 1,500 feet long, for loaded cars; one office building, brick, with both wagon and railroad scales in building; together with an oil room and two storage rooms. The oil room is provided with three two-barrel Bowser self measuring oil tanks; one wash house for employes, 85 by 35 feet, with concrete floors, equipped with steam heat, five shower baths, forty individual wash basins, two hundred steel lockers, with two compartments each, one for dirty and one for clean clothes; one private bath room, with complete equipment, and one hospital room, provided with bed, hot and cold water and a general stock of emergency medicines and supplies. This building is of brick and is fireproof throughout.

The Wasson Coal Company, Harrisburg, Saline county, has added the following electrical equipment, which is ready for operation: Two additional boilers, 18 feet by 72 inches, both 150 H. P.; one 250 K. W. Morgan Gardner generator, 250 volts; one Skinner engine; one seven-ton Morgan-Gardner haulage motor; eight Morgan-Gardner chain breast machines, with line and other necessary material.

The Hickory Hill Coal Company, at Equality, Gallatin county, has put in a concrete arch entrance at its mine, which is a slope, and has greatly improved the appearance as well as the stability of the mine.

The Wilson Coal Company, Cutler, Perry county, has erected a new head frame 55 feet high, which is constructed of 4 by 12 inch oak timbers, securely bolted together. The company has also built a new fan house.

The Big Muddy Carterville Coal Company's No. 7 mine at Royalton, Franklin county, has been purchased by the Franklin Coal and Coke Company. The main shaft at this mine was sunk about three years ago, but no development work was done until the new company took possession. Since then the escapement shaft has been put down and the underground connections made with the main shaft. A substantial wood tippie has been completed and the necessary equipment is being installed as expeditiously as possible.

The Big Muddy River Consolidated Coal Company, with main offices at Herrin, Williamson county, is now known as The Southern Illinois Coal Company. This company's mine is in the southwest corner of Franklin county and has been equipped in first-class shape and is producing a considerable tonnage. The main shaft is 347 feet deep and is 9½ by 19½ feet