

The West Frankfort Coal Company has added a new 200 horsepower boiler and stack, together with the necessary extension in the boiler room, three chain breast mining machines, with 6½-foot cutter bars, 40 3½-ton mine cars, and an electric mine pump, 3-inch discharge and 4-inch suction. The main haulage roads have been changed to 40-pound rails. A frame stable has been erected 40 feet by 80 feet. Storage track for railroad cars has been increased. A 15-ton electric locomotive is now being installed. A steel tower has been ordered to replace the wood tower now in use.

The Western Coal and Mining Company broke ground for their mine No. 2, in the extreme southwest corner of Franklin County, on July 1, 1916. Both shafts are 10 feet by 15 feet. The coal is 152 feet below the surface and 9½ feet thick. The hoist is equipped with self-dump cages, steel guides, buntins and wall plates. The plant is designed for a daily capacity of 3,500 tons. The engine room is 48 feet by 62 feet, steel frame and stucco. The boiler room is 48 feet by 72 feet, steel frame and stucco. The hoist engine is 24 inches by 36 inches with 6½-foot drum, steam brake, steam reverse and emergency valve. There are four 250 horsepower 4-inch return tubular boilers equipped with water level regulators, automatic stops and checks and a steam jet ash conveyor. The stack is of concrete, 105 feet high. A water softening system for the use of mine water is now being installed. A 200 kilowatt generator is direct connected to a 22-inch by 22-inch engine. Other buildings are the office and shop building 25 feet by 140 feet, steel frame and stucco, wash house, 30 feet by 70 feet, to be equipped with hangers. A temporary 8-foot high speed fan is now in use, and a 25-acre reservoir has recently been completed. The most important underground installations are 6 short-wall mining machines, 1 10-ton locomotive, 150 3½-ton mine cars with roller bearing wheels and 42-inch track gauge. The shaft bottom is 380 feet long and designed to handle cars by gravity.

The W. P. Rend Collieries Company has put in 75 3-ton mine cars and one electric pump. New air courses are being driven to connect both sides of the shaft in the interior of the mine.

The improvements made by the Old Ben Coal Corporation for the year are shown for each mine as follows:

*Mine No. 8.*—One brick stack 125 feet high, 11 feet by 11¼ inches wide at bottom by 8 feet 2¼ inches at top; three John O'Brien boilers, 72 inches by 18 feet, 125-pound pressure; brick addition to boiler room, 20 feet by 40 feet; brick addition to power house, 20 feet by 50 feet; one Allis Chalmers generator, 300 kilowatts, 275 volts, full load, 1,090 amperes, 490 r. p. m.; eight mine telephones underground; one 75 horsepower Western Electric motor, 4 pole, 230 volts d. c., 775 r. p. m.; one 250 horsepower internally fired Freeman boiler; three 48-inch by 72-inch shaker screens; two link-belt locomotive cranes, 135 pounds steam pressure, 2-inch flues; one 16 by 24 four-wheel saddle tank locomotive, type O-40; 125 mine car bodies complete with Sanford-Day mine car trucks; 128 self-closing patent door lockers; one 16-inch by 7-foot screw body cutting engine-lathe; one Western Electric motor, 220 volts, 1,000 r. p. m. for above lathe; four mining machines; four 8-ton gathering locomotives; one 10 by 6 by 12 duplex end OEP turret pump, 6-inch suction, 5-inch discharge; one Cochrane heater, 500 gallons capacity; 5,080 feet wire fence; one brick heater house, 10 feet by 12 feet.

*Mine No. 9.*—One 7-inch by 4½-inch by 10-inch duplex turret pump; eight mine telephones below; one supply house on top, wooden structure, stucco finish, 40 feet by 70 feet; one black oil tank, capacity 3,000 gallons; one storage plant and equipment; one check house on top, wooden structure, stucco finish; one generator, 500 kilowatts; one Corliss engine, 275 volts full load, d. c.; 250 mine cars with Sanford-Day trucks complete; 128 wash house lockers; four mining machines; three 8-ton gathering motors; two 400 horsepower vertical boilers; one new scale house, stucco finish, 18 feet by 20 feet. A large clam-shell steam shovel has been installed for the storage of coal adjacent to the mine. The coal is dumped from the re-screener into an excavation then is picked up by the clam-shell and is transported by the boom and railroad spur, upon which the shovel car travels, and dumped into large circular piles.