

as at the other mines, 71 feet deep. When visited there were few rooms being worked. The ventilation of this mine is assured by an eight foot Champion fan on top of air shaft.

James Jones, Sup't and Mine Manager.

#### THE GRAPE CREEK COAL AND COKE CO.

This company is operating five mines, located in and around Grape Creek, five miles south of Danville, on a branch of the C. & E. I. R. R. Nos. 1, 2 and 4 are drifts, not likely to last much longer, as the pillars are now being drawn. The ventilation and roadways were found good in each of them.

#### MINE No. 3.

This is a shaft 18 feet deep, sunk at the base of a hill, the workings of which extend nearly one mile into the interior. The ventilation is good, maintained by a furnace, which consumes on an average  $2\frac{1}{2}$  tons of coal daily. The equipment of the mine is good. Double doors have been placed on the main entry at the bottom, to prevent the air from going direct to the furnace, before reaching the men.

John Beattie, Sup't; T. J. Roberts, Mine Manager.

#### MINE No. 5.

This is a shaft 125 feet deep, sunk on the higher lands, and has a good equipment throughout. Ever since the explosion from fire-damp in this mine, in 1883, a fireman examines the mine every morning with a safety lamp, before the men go down, but seldom detects any firedamp. The volume of air passing in this mine measures 31,500 cubic feet per minute, produced by a Champion fan 6 feet in diameter, each side of the mine being aired with separate currents well distributed. There are five mining machines of the Yock pattern operated in this mine, which are fed from a compressor from Port Carbon, Penn., having a steam cylinder 24x36, and air cylinder 22x36. The operator of each machine receives \$2.25, and shovelers \$1.75 per day, and they are expected to mine two rooms 25 feet wide and four feet undercut, which will turn out about 40 tons of coal per day. The loaders receive 40 cents per ton for loading and blasting. Three men are engaged throwing back dirt minings after the machines have finished mining the room, each being paid \$1.50 per day. Six men are employed timbering and laying track in rooms, three of them receive \$2.00 per day, and the others being considered helpers, are paid \$1.50 each.

John Beattie, Sup't; David Watkins, Mine Manager.

#### THE KELLY MINE.

This is a shaft 96 feet deep, located two miles southwest of Grape Creek, on the C. & E. I. R. R. This mine was in poor condition when first visited. The entries were unsafe for travel, requiring much timber, and the traveling road to the escapement shaft was