

## NO. 1 SHAFT COLLIERY.

This colliery is located in Gibsonburg borough, and situated about 500 feet south-east of the Lackawanna river; the opening to the coal consists of a shaft and drift: the shaft is 100 feet deep to the Carbondale vein; it is operated by John Jermyn, Esq. John Jermyn is general superintendent, Robert Carter is mining boss and John Knight is outside foreman.

*Description.*—There is a breaker connected with this mine, located about 100 feet from shaft; they mine and prepare about 500 tons of coal per day; they employ 100 miners, 75 laborers, 25 drivers, 4 door-boys and 6 company men in the mine; 50 slate pickers, 6 head and plate men, 5 drivers, 30 company men, 8 mechanics and 2 bosses outside; in all 311 men and boys; there are 2 self-acting planes in the mine, 600 feet long each; they are working the Carbondale vein, average thickness 11 feet; they work headings and air-ways 11 and chambers 36 feet wide; they leave pillars from 15 to 18 feet wide to sustain the roof; they leave cross-entrances 60 feet apart for the purpose of ventilation; the roof is solid rock; the mine is in a good safe working condition.

*Ventilation* is produced by means of a furnace; the in-take is located in hoisting shaft for the shaft, and at mouth of tunnel for tunnel; area of shaft is 80 feet, and area of tunnel is 42 feet; the up-casts for shaft and drift are located in furnace air-shaft, area 80 feet; the amount of fresh air is 17,840 cubic feet per minute; the main doors are hung so that they will close of their own accord; they have attendants at main doors: they have double doors on main traveled roads, and an extra one in case of an accident to any of the others; the air is circulated to the face of the workings in three splits: the amount of ventilation has been measured and reported; ventilation is good.

*Machinery.*—They use 1 breaker engine, 25-horse power, and 1 hoisting and pumping engine, 60-horse power: they have a metal speaking tube in the shaft; they have a safety carriage, with all the modern improvements; they have an adequate brake, and flanges of sufficient strength and dimensions for safety attached to the hoisting drum; the boilers have been cleaned and examined and reported in good condition; they have a steam gauge to indicate the pressure of steam; the breaker machinery is boxed and fenced off so that operatives are safe.

*Remarks*—They have furnished a map of mine; they have a second opening; they have a house for men to wash and change in; the mining boss seems to be a practical and competent man; he has no fire-boss to assist him; there are no boys working in the mine under 12 years of age; the engineers seem to be experienced, competent and sober men; the parties having charge know their duty in case of death or serious accident; the shaft landing is protected by safety gates.

## JERMYN'S SLOPE COLLIERY.

This slope is located in Gibsonburg borough, and situated about one-half of a mile south-east of the Lackawanna river. It is operated by John Jermyn, Esq. John Jermyn is general superintendent, Alfred Green is mining boss and Peter Merritt is outside foreman.

*Description.*—There is a breaker connected with this mine, located about 300 feet away; they mine and prepare 650 tons of coal per day; they employ 120 miners, 120 laborers, 20 drivers, 6 door-boys and 6 company men in the mine; 50 slate pickers, 7 head and plate men, 3 drivers, 30 company men, 5 mechanics and 2 bosses outside; in all 369 men and boys; there are two self-acting planes inside, 600 feet long each; they are working the Carbondale vein; average thickness 11 feet; they work headings and air-ways 11, and chambers 36 feet wide; they leave pillars 15 feet wide to sustain the roof; they leave cross-entrances 60 feet apart, for the purpose of ventilation; the roof is solid rock; the mine is in a good safe working condition.

*Ventilation* is produced by a furnace; the in-take is located at mouth of slope, area 75 feet; the up-cast is located in air-shaft, area 80 feet; the amount of pure air is 18,750 cubic feet per minute; the main doors are hung so as to close of their own accord; they have attendants at main doors; the air is circulated to the face of the workings in 3 splits; the amount of ventilation has been measured and reported; ventilation is good.

**Machinery.**—They use 2 hoisting engines, 25-horse power each, and 1 breaker engine of 25-horse power; they have a metal speaking-tube in the slope; they have flanges of sufficient strength and dimensions for safety attached to the hoisting drum; the boilers have been cleaned and examined, and reported in good condition; they have a steam gauge to indicate the pressure of steam; the breaker machinery is boxed and fenced off, so that operatives are safe.

**Remarks.**—They have furnished a map of mine; they have a second opening; they have a house for men to wash and change in; the mining boss seems to be a practical and competent man; he has no fire-boss to assist him; there are no boys working in the mine under 12 years of age; the engineers seem to be experienced, competent and practical men; they do not allow any persons to ride on loaded cars in the mine; the parties having charge know their duty in case of death or serious accident.

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#### ERIE COLLIERY.

This colliery is located in Carbondale township, and situated 1,000 feet south-east of the Lackawanna river. The shaft is 183 feet deep to the Carbondale vein. It was operated by the Glenwood coal company, now in bankruptcy. Edward Jones is general mine superintendent and John C. Evans is mining boss.

**Description.**—There is a breaker attached to the shaft tower; they mine and prepare 200 tons of coal per day; they employ 34 miners, 34 laborers, 10 drivers, 3 door-boys and 3 company men in the mine; 48 slate pickers, 5 head and plate men, 1 driver, 4 company men, 6 mechanics and 2 bosses outside; in all 149 men and boys; they are working the Carbondale vein of coal; average thickness 10½ feet; they work headings 12, air-ways 14 and chambers 45 feet wide; they leave pillars 14 feet wide to sustain the roof; they leave cross-entrances 30 feet apart, for the purpose of ventilation; the roof is rock and sandstone; the mine is in a good working condition.

**Ventilation** is produced by a furnace; the in-take is located in main shaft, area 210 feet; the up-cast is located in furnace air-shaft, area 140 feet; the amount of pure air is 14,000 cubic feet per minute; the main doors are hung so as to close of their own accord; they have attendants at main doors; the air is circulated to the face of the workings in two splits; the amount of ventilation has been measured and reported; ventilation is good.

**Machinery.**—They use 1 breaker engine, 25-horse power, 2 hoisting engines, 30-horse power each, and 1 pumping engine of 60-horse power; they have a metal speaking-tube in the shaft; they have an adequate brake, and flanges of sufficient strength and dimensions for safety, attached to the hoisting drum; they use one safety carriage, with all the modern improvements; the ropes, links, chains and connections are in good condition; the boilers have been cleaned and examined, and reported in good condition; they have a steam gauge to indicate the pressure of steam; the breaker machinery is boxed and fenced off, so that operatives are safe.

**Remarks.**—They have furnished a map of mine; they have a second opening; they have a house for men to wash and change in; the mining boss seems to be a practical and competent man; there are no boys working in the mine under 12 years of age; the engineers seem to be experienced, competent and sober men; they do not allow over ten men to ride on the safety carriage at one time; they do not allow any persons to ride on loaded carriages in the shaft; the parties having charge know their duty in case of death or serious accident; the shaft landings are protected by safety gates.

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#### POWDERLY SLOPE.

This slope is located in the township of Carbondale, and situated one-fourth of a mile south-east of the Lackawanna river; it is — feet long to the Top and Bottom Carbondale vein; the opening is 6 by 12 feet, and driven at an angle of — degrees; it is operated by the Delaware and Hudson canal company. Andrew B. Nicol is assistant mine superintendent, James Nicol is mining boss and William Bowers is outside foreman.