

## TAYLOR COLLIERY DRIFT.

This drift is located in Lackawanna township and lying about one-fourth of a mile north-west of the Lackawanna river; it is about 1,800 feet to the face of the drift; size 7½ feet by 7 feet. John S. Powell is mining boss, and J. P. Cooper is outside foreman.

*Description.*—The coal mined at this drift is prepared at the breaker; they mine about 110 tons of coal per day; they employ 11 miners, 11 laborers, 5 drivers, 2 door-boys and 4 company men in the mine; in all 33 men and boys; they are working the "F" vein of coal; average thickness 7 feet; they work headings 12, airways 15 and chambers 20 feet wide; they leave pillars from 5 to 6 yards to sustain the roof; they leave cross-entrances 60 feet apart for the purpose of ventilation; the roof is good slate; the mine is in a good working condition.

*Ventilation.*—Ventilation is produced by means of a furnace; it is located about 1,500 feet west of the mouth of the drift; the intake is located at the mouth of the drift; size about 52½ feet; the upcast is in Furnace shaft; area 144 feet; the amount of fresh air per minute is 16,240 cubic feet; there is very little inflammable gas evolved in the mine; the main doors are hung so that they will close of their own accord; they have attendants at the main doors; they have double doors on main traveled roads and an extra one in case an accident should happen to any of the others; the air is circulated to the face of the workings in one volume; the amount of ventilation has been measured and reported; ventilation is good.

*Remarks.*—There is no machinery required in the workings; they have furnished a map of the mines; they have a second opening; they have a house for men to wash and change their clothes in; the mining boss is a practical and competent man; there are no boys working in the mines under twelve years of age; the parties having charge know their duty in case of death or serious accident.

## CORAY BREAKER COLLIERY.

This breaker is located in Lackawanna township, and situated about one-fourth of a mile south-east of the Lackawanna river; it is operated by the Lackawanna and Susquehanna coal and iron company; Thomas B. Williams is general superintendent, William Reese is mining boss and William H. Daily is outside foreman.

*Description.*—The opening to the coal consists of two tunnels, namely, Nos. 4 and 5; they are located one mile east of the breaker; they mine and prepare from 300 to 400 tons of coal per day; they employ at No. 4 tunnel 20 miners, 8 laborers, 9 drivers, 5 door-boys and 3 company men, and at No. 5 tunnel 20 miners, 20 laborers, 15 drivers, 6 door-boys and 6 company men in the mines; 34 slate pickers, 11 head and plate men, 6 drivers, 18 company men, 8 mechanics and 2 bosses outside; in all 198 men and boys; they are working the — vein; average thickness, 8 feet; they work headings 15, air-ways 15 and chambers 30 feet wide; they leave pillars about 12 feet wide to sustain the roof; they leave cross-entrances about 60 feet apart for the purpose of ventilation; the roof is good; the mines are in a good working condition.

*Ventilation* is produced by furnaces; the intakes are located at mouth of tunnels, areas from 50 to 60 feet; the outcasts are located in furnace air-shaft, areas from 50 to 60 feet; the amount of pure air is 16,000 cubic feet per minute; the main doors are hung so as to close of their own accord; they have attendants at main doors; the amount of ventilation has been measured and reported; ventilation is good.

*Machinery.*—They use 1 breaker engine, 60-horse power; 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; there is no machinery required at the tunnels.

*Remarks.*—They have furnished a map of mines; they have a second opening; they have no house for men to wash or change in; the mining boss seems to be a practical and competent man; there are no boys working in the mines under 12 years of age; the engineer seems to be a practical and sober man; the parties having charge know their duty in case of death or serious accident; they use 2 locomotives to run coal from the mines to the breaker; the engines will average about 20-horse power each.

An 80 horsepower electric hoist was installed at **Corey** slope and a fireproof engine house built. A fan 15 feet in diameter, driven by a 55 horsepower motor, was installed in a fireproof fan house to properly ventilate the workings of the Corey slope.

Central Colliery.—No. 13 shaft has been abandoned as a hoisting shaft. A motor road was made from No. 13 to Laws shaft, and the coal is hoisted at Laws shaft. No 13 shaft is only used as a pumping station and for lowering and hoisting men.

A new electric pump has been installed in Laws shaft, capable of handling 1,000 gallons of water per minute.

#### DELAWARE, LACKAWANNA AND WESTERN RAILROAD COMPANY

Pyne Colliery.—A second opening and return airway, 7 by 12, was driven from the Clark to the No. 1 Dunmore vein, pitch 25 degrees, total length 78 feet. A Welch automatic overwind device, or engine stop, was installed on the hoisting engines.

Taylor Colliery.—Concrete breaker and washery completed and put in operation during the month of July.

#### JERMYN AND COMPANY

Jermyns Colliery.—A new wash-house was built of brick and concrete, 80 by 20 feet, to accommodate 200 men and boys, with shower bath and lockers. A supply house was built of brick and concrete, 80 by 24 feet. Made slope from outside to Clark vein, to be used as second opening, also air shaft from Clark vein to Monkey vein. Balance plane in No. 2 mine. A new tower was erected at No. 3 shaft.

#### ELLIOT, McCLURE AND COMPANY

Sibley Colliery.—Concrete stables were completed in No. 2 Dunmore vein, also one in No. 3 Dunmore vein. Two Lehigh Valley double jigs for the preparation of egg and stove coal were installed in the breaker. An additional air compressor is being installed. A new compound duplex Jeanesville pump, with steam cylinders 22 and 34 inches, 16 inch plunger, 36 inch stroke, is being placed in position in the Dunmore vein. Big vein is being opened by a drift north of shaft. This drift has been driven about 300 feet.

#### HILLSIDE COAL AND IRON COMPANY

Consolidated Colliery.—Made a new opening on the North dip for hoisting slope for Red Ash vein. Engines moved from inside to outside. Fan and fan-house, car and blacksmith shop, barns, storehouses, locomotive house, foreman's office, emergency hospital, wash-house and boiler plant, were built near slope. This was done on account of fire in surface vein under location of old buildings near breaker.