

REPORT OF INSPECTOR OF MINES.

OFFICE OF INSPECTOR OF MINES, }
BRAZIL, IND., July, 1894. }

Hon. S. S. Gorby, State Geologist, Indianapolis, Ind.:

SIR—As required by statute, I herewith present my annual report for the year 1893, and the annual report of the Inspector of Mines for the same year.

THOMAS McQUADE,
Inspector of Mines, Indiana.

REPORT OF INSPECTOR OF MINES.

In beginning this report, I desire to say that I very much regret the delay in filing the same, but circumstances over which I had no control prevented my doing so earlier.

The total number of tons of coal of all kinds produced in Indiana was 4,358,897. The average number of men employed was 7,431. Total number of mines, 183. Total number coal-producing counties, 19. Total number scales tested, 8. Total number of fatal accidents, 22. Total number non-fatal accidents, 35. Average number of mules employed, 535.

LIST OF FATAL ACCIDENTS.

The following is a list of fatal accidents reported to me :

- February 16, 1893. F. P. Lewis, killed by fall of coal in Star mine, owned by Coal Bluff Co., in Vigo County.
- March 4, 1893. Barney Myers, killed by explosion of keg of powder in Hercules mine, owned by Coal Bluff Co., in Vigo County.
- March 13, 1893. John Johnson was killed by being run over by flat car at New Kentucky mine, No. 1, owned by New Kentucky Coal Co., in Parke County.
- March 16, 1893. Philip Boyer, killed by fall of slate in No. 2 mine, owned by Brazil Block Coal Co., in Clay County.
- April 5, 1893. Bernard Grillice, killed by fall of coal in No. 10 mine, owned by Brazil Block Coal Co., in Clay County.
- April 12, 1893. Isaac Anderson, killed by falling shed over flat car at Hazel Creek Coal Co.'s No. 1 mine, in Vermillion County.
- May 25, 1893. John Walkinshaw, killed by fall of slate in America Beauty mine, owned by Zeller & Sigler, in Clay County.
- July 5, 1893. Joe Craven, killed by bank cars running down incline and catching him in mouth of slope at No. 9 mine, owned by Parke County Coal Co., in Parke County.
- July 14, 1893. Alexander Waugh, killed by fall of slate in No. 3, owned by B. B. Coal Co., in Clay County.

- Aug. 11, 1893. S. J. Barker, killed by fall of slate in New Nickel Plate mine, owned by Jackson Coal Co., in Clay County.
- Aug. 18, 1893. Wm. McMahan, killed by fall of slate in Brier Hill mine, owned by John H. Zeller Coal Co., in Clay County.
- Aug. 20, 1893. Andrew Sipp, killed by coal flying from shot that he was trying to fire, said shot going off unexpectedly, in Anderson's No. 2 mine, in Vermillion County.
- Sept. 6, 1893. John W. Martin, killed by fall of slate in Mecca mine No. 1, owned by Mecca Mining Co., in Parke County.
- Sept. 2, 1893. Alexander Gillmore, killed while returning to a shot by its exploding unexpectedly, the coal from same striking him, while at work in Mecca mine No. 1, owned by Mecca Mining Co., in Parke County.
- Dec. 13, 1893. Fritz Telton, killed by fall of slate in Hercules mine, owned by Coal Bluff Co., in Vigo County.
- Dec. 15, 1893. Peter Zenie, killed by fall of slate in Anchor mine, owned by Coal Bluff Co., in Clay County.

LIST OF NON-FATAL ACCIDENTS.

- January 10, 1893. John Fleming, injured in abdomen and lower part of ribs by fall of slate in No. 8 mine, owned by Brazil Block Coal Co., in Clay County.
- January 16, 1893. John Patree, burned about face and hands by explosion of shot while drilling out tamping in side of hole that had failed to explode with a squib, in Hoosier Coal Co.'s mine, in Clay County.
- January 18, 1893. James Alsip, collar bone broken while coupling cars in No. 9 mine, owned by Brazil Block Coal Co., in Clay County.
- February 10, 1893. J. Russell, head and back injured by fall of slate in Gartside mine, owned by Watson, Little & Co., in Clay County.
- March 22, 1893. A. Graves, leg broken while riding between cars in No. 2 mine, owned by Crawford Coal Co., in Clay County.
- April 18, 1893. Edward Oliver, leg broken by being squeezed between bank cars at No. 7 mine, owned by Parke Coal Co., in Parke County.
- April 25, 1893. Frank Mertinger, leg broken by falling between bank cars and being run over in No. 6 mine, owned by Parke County Coal Co., in Parke County.
- May 23, 1893. J. R. Moore, foot mashed by fall of slate in No. 2 mine, owned by Crawford Coal Co., in Clay County.
- May 31, 1893. James Alley, arm dislocated and injured internally by cage being let down upon him at Brier Hill mine, owned by Morrier Coal Co., in Clay County.

- July 5, 1893. Otto Grogan, Wm. Blanketer and Rolley Grogan, all injured by empty cars coming down incline, with chain attached, and catching them in mouth of slope, at No. 9 mine, owned by Parke County Coal Co., in Parke County.
- July 8, 1893. Walter Slaters, leg broken by being squeezed between cars of coal and mule in No. 9 mine, owed by Parke County Coal Co., in Parke County.
- July 8, 1893. Ed. Godden, seriously injured about head by chunk of coal at No. 3 mine, owned by B. B. Coal Co., in Parke County.
- August 4, 1893. Elija Bridwaters, injured in back and legs by fall of slate in Eureka mine No. 1, owned by Eureka Block Coal Co., in Clay County.
- September 5, 1893. M. Kalafa, two ribs broken by fall of slate in No. 1 mine, owned by C. Ehrlich & Co., in Clay County.
- September 10, 1893. Wm. Russell, head injured by rock falling down Brazil shaft while shaft was being sunk, owned by Jackson Coal Co., in Clay County.
- November 15, 1893. Silas Leonhart, fell down shaft, breaking his shoulder and receiving internal injuries, in New Nickel Plate mine, owned by Jackson Coal Co., in Clay County.
- December 7, 1893. P. Quinne, head and back injured by fall of slate in Gartside mine, owned by Watson, Little & Co., in Clay County.

Below is given a list of scales tested, date of test, and brief statement as to condition of scales at time of test. It is a noticeable fact that but one scale tested last year was found incorrect, and that one was really not in use. The test was made for the purpose of determining whether or not the condition of the scale was such as to permit its use. While this is a creditable condition for our scales to be found in, yet the complaints so common among miners about weights still continue, but not to the extent of former years. In my judgment the law requiring test weights to be kept at the mines ready for use at any time has done much to give to the miner the opportunity of ascertaining at any time the exact condition of the scales at the mine where he works.

SCALES TESTED.

- February '27, 1893. New Nickel Plate mine, owned by Jackson Coal Co., in Clay County; scales tested and found correct.
- May 22, 1893. Grant mine, owned by Grant Coal Coal, located in Vigo County; scales tested and found incorrect.
- May 25, 1893. No. 9 mine, owned by B. Block Coal Co., in Clay County; scales tested and found incorrect.
- May 25, 1893. Gartside mine, owned by Watson, Little & Co., in Clay County; scales tested and found correct.

- July 24, 1893. Seelyville mine, owned by P. Ehrlich & Co., in Vigo County; scales tested and found correct.
- November 4, 1893. Eureka mine No. 2, owned by Eureka Coal Co., in Clay County; scales tested and found correct.
- November 4, 1893. No. 1 mine, owned by Crawford Coal Co., in Parke County; scales tested and found correct.
- November 21, 1893. No. 6 mine, owned by Parke County Coal Co., in Parke County; scales tested and found correct.

MINES INSPECTED.

CLAY COUNTY.

No. 1 Mine.

Owned by B. B. Coal Co. Located one and one-half miles north of Knightsville. This mine was worked out and abandoned during the year.

No. 2 Mine.

Owned by B. B. Coal Co. Located one mile northwest of Harmony. This mine was worked out and abandoned July 1, 1893.

No. 3 Mine.

Owned by Brazil Block Coal Co. Located two miles northwest of Harmony. This mine was visited several times. On June 1, at my request, the west side of top vein was abandoned, the roof being so bad it was considered too dangerous to work. On my last visit only a few men were working in top vein on east side of shaft. In bottom vein the ventilation was fairly good, but the coal was all low and it is not likely that this shaft will last long.

No. 4 Mine.

Owned by B. B. Coal Company. Located two miles north of Knightsville. This shaft was visited three times. On March 25th it was found that the air was not split so as to afford sufficient air to properly ventilate the mine. After notifying the Superintendent of the changes necessary, I gave him a limited time to do the work. On returning at the expiration of the allotted time, I found the mine in good condition.

No. 6 Mine.

Owned by the Brazil Block Coal Company. Located three miles north of Brazil. It was visited twice. On account of the probable falling in

of the entry in bottom vein leading to the drop shaft in the top vein, I asked the company to sink another escape shaft, which they did. This shaft is pretty well worked out, and will be abandoned about July 1.

No. 7 Mine.

Owned by B. B. Coal Company. Located two miles north of Brazil. Was worked out and abandoned February 18, 1893.

No. 8 Mine.

Owned by B. B. Coal Company. Located one mile north of Perth. This mine was visited twice. On my first visit I asked the company to sink an additional air-shaft on northwestern part of territory. On returning I found the company had put down a slope north of shaft, which is intended more for a place of ingress and egress for the men than for ventilation, as the company had put in a trail-rope to haul the coal. The general condition of this mine, however, was fair, although there is a large territory excavated, and in several places the water on the road is nearly a foot deep.

No. 9 Mine.

Owned by B. B. Coal Company. Located four miles southeast of Knightsville. This mine was visited twice. On my last visit I found they had opened the top vein that had been abandoned for years and were working thirty-six men in it. The coal being worked is but a small strip, and will not last longer than six months. I asked for a stairway to be put in air-shaft from the bottom to the top vein, and air-shaft enlarged. The bank boss promised to make the changes desired at once.

No. 10 Mine.

Owned by Brazil Block Coal Company. Located one mile east of No. 8 mine. This mine was visited twice, but was only inspected once, as it was not in operation at the time of my last visit. The general condition of mine, when inspected, was good.

Crawford No. 2 Mine.

This mine is owned by the Crawford Coal Company, and is located one mile northwest of Harmony. On my last visit to this mine I found two men working in what I considered a very dangerous place on main west entry. I requested the boss to give them another place, which was done.

The men were all working on pillars. The mine is worked out and abandoned now.

No. 3 Mine.

Owned by the Crawford Coal Company. Located three miles south of Harmony, is worked out and abandoned.

No. 4 Mine.

Owned by the Crawford Coal Company. Located two miles north of Brazil. This mine was visited twice. The general condition of the mine was good.

No. 5 Mine.

Owned by the Crawford Coal Company. Located four miles south of Brazil. This was visited twice. On my first visit I asked for certain changes which were not made, and I found it necessary to file affidavits to compel them to comply with the law. On my second visit I found the mine in very good condition. I asked for an additional split in the air shaft and it was cheerfully made.

No. 6 Mine.

Owned by the Crawford Coal Company. Located four miles south of Brazil. This mine is worked out and abandoned.

Columbia Mine.

Owned by Zeller & Sigler. Located one mile southwest of Knightsville. This mine was visited twice. Since my last report two tunnels have been driven from the bottom to the top vein. Both are on the east side of the shaft. On my last visit I ordered the main entry in the tunnel to be thoroughly timbered as the roof was very bad. Also one room in bottom vein sloped, on account of bad roof. In other respects the general condition of the mine is fair.

America Beauty.

Owned by Zeller & Sigler. Located one mile east of Asheville. This mine was visited twice, and on both visits was found in good condition.

Brier Hill Mine.

Owned by J. A. Zeller Coal Company. Located just south of Asheville. This is a new shaft. It is ninety feet deep. Coal J (or bottom

vein) is being worked. The coal is about three feet six inches thick. The mine is ventilated by fan. During the summer an escape shaft was put down. The general condition of the mine is good.

Big Four Mine.

Owned by the Clay County Coal Company. Located one-half mile north of Lodi. This is a new shaft. It is 132 feet deep. Coal I is being worked. The coal is about four feet six inches thick. It is ventilated by fan, and was in good condition when last visited.

New Nickel Plate Mine.

Owned by the Jackson Coal and Mining Company. Located one mile south of Benwood. At the time of my last visit to this mine they had just sunk a shaft to the bottom vein. The general condition of the mine was good, except a needed split in the air in the west side of the top vein. This change the bank boss promised to make at once.

Brazil Shaft.

Owned by the Jackson Coal and Mining Company. Located two miles northeast of Brazil. This is a new shaft. It is eighty-five feet deep. Three veins of coal are being operated, and the coal averages about four feet. The mine is ventilated by fans. At the time of my last visit to this mine they had not completed the work of covering cages, neither had they light at the bottom of shaft in the different veins. They also needed gates on top landing and an indicator on the engine. Also a bulletin board for timbers. The boss promised to make the improvements needed without delay, but the mine was stopped a short time afterwards. I am, therefore, unable to tell what changes were completed.

Newburg Mine No. 2.

Owned by the Gartsherie Coal Company, located one mile west of Turner, was visited twice. At the time of my last visit I stopped three men that were working on the second south entry, and asked the company to drive an air course and bring the air up to where the men were then working. This they very readily agreed to do.

Somers Mine.

Owned by J. Somers. Located one mile north of Staunton, was visited twice. Since my last report a slope was put down and is now in use for an escape. The general condition of the mine is good.

Ehrlich Mine.

Owned by Chris. Ehrlich (successor to P. Ehrlich & Co.), was visited twice, and although the mine was badly cut up, the general condition so far as health and safety was concerned was good.

Nellie Mine.

Owned by the Otter Creek Coal Company. Located one mile south of Brazil, was visited twice, and though many improvements were made between my first and second visits, still there was not enough air on the west side of the mine. I asked that another current of air be sent to the west side of the mine. This the bank boss agreed to do at once.

Fair View Mine.

Owned by the Otter Creek Coal Company. Located four miles northwest of Brazil. This is a new shaft. Two veins of coal are being operated. They are the top and bottom veins, or coal I and J. Coal I averages over four feet, while coal J averages about three feet six inches. This shaft is 100 feet deep. It is ventilated by fan. At my request an escape shaft was put down, and at the time of my last visit it was in good condition.

Gartside Mine.

Owned by Watson, Little & Co. Located one mile north of Knightsville. This mine was visited twice and found in good condition.

Eureka Mine No. 1.

Owned by the Eureka Block Coal Company. Located one-half mile east of Carbon. This mine was visited twice, and many changes required to be made in directing the air currents. At the time of my last visit the mine was not in operation, but seemed to be in good condition.

Eureka Mine No. 2.

Owned by the Eureka Block Coal Company. Located just north of Mine No. 1. It is a new shaft. It is 110 feet deep. Coal seams I and J are being worked. The mine is ventilated by fans. The average height of the coal is near four feet. They expect to connect with Mine No. 1 in a short time, and thus make an escape shaft.

World's Fair Mine.

Owned by the D. H. Davis Coal Company. Located one mile north of Brazil. This mine was visited twice and found in good condition both times.

Excelsior Mine No. 1.

Owned by Christ. Ehrlich, successor to the Hoosier Coal Company. This shaft had a big cave-in from the surface. At the time of my last visit the mine was pretty well cleaned up, and was at that time in good condition. An escape shaft was sunk for the benefit of those who work in the top vein.

Excelsior Mine No. 2.

Owned by Christ. Ehrlich. This is a small drift, ventilated by small furnace. It was opened the latter part of last year. There is but a small territory to excavate here, of what is called a rider vein, and it will be worked out and abandoned in 1894.

Pratt Mine.

Owned by the Coal Bluff Company. Located one mile west of Perth; was visited twice and found in good condition.

Anchor Mine.

Owned by the Coal Bluff Company. Located one mile southeast of Perth; was visited twice, but inspected only once, as the boilers were being cleaned at the time of one of my visits, and I did not go down into the mine. I found the mine in good condition.

Louise Mine.

Owned by Weaver, Getz & Co. This mine was visited several times, and a request made to have the water running down the escape shaft prevented from falling on persons ascending or descending the shaft. The company failed to do this work in a reasonable time, and were therefore prosecuted. Finally the work was done. The mine in other respects was in fair condition when last visited.

Harrison Mine No. 1.

Owned by the Indiana & Chicago Block Coal Company. Located four miles northeast of Clay City; was worked out and abandoned about August 1.

Harrison Mine No. 2.

Owned by the Chicago & Indiana Block Coal Company. Located just west of Mine No. 1. During the year a splendid air and escape shaft has been put down, and at the time of my last visit the mine was in good condition.

Diamond Mine.

Owned by the Diamond Coal Company. Located just a short distance northwest of Clay City. This shaft is worked out and abandoned.

Brier Hill Mine.

Owned by the Morrier Coal Company. Located one mile northwest of Clay City. This mine was visited several times and several changes required.

PARKE COUNTY.

Cox Mine No. 3.

Owned by the Brazil Block Coal Company. Located at Coxville. This mine was visited several times. On November 20th I ordered an additional split of air for the south side of the mine and several breakthroughs filled up. In other respects the mine was in good condition.

Otter Creek Mine.

Owned by the Brazil Block Coal Company. Located two miles northeast of Carbon. This mine was visited twice, and found in splendid condition.

No. 6 Mine.

Owned by the Parke County Coal Company. Located one mile northwest of Rosedale. This mine was visited twice. Its general condition is good. On the west side of the mine the company has put in a tail rope system. It is working satisfactorily, and there is some talk among other operators in this county of putting in a similar system of hauling coal and doing away with mules.

No. 7 Mine.

Owned by the Parke County Coal Company. Located one mile southeast of Minschell. This mine was visited twice, but owing to the fact that it was not in operation on either visit, I did not inspect it.

No. 8 Mine.

Owned by the Parke County Coal Company. Located one mile and a quarter southwest of Coxville. This mine was visited twice. On one occasion I found boys under 14 years of age employed in the mine. They were told to remain at home after that date until they are 14 years old. The general condition of the mine was good.

No. 9 Mine.

Owned by the Parke County Coal Company. Located one-half mile south of Coxville. This mine was visited three times. On November 22d I found that an additional split of air was necessary for the south side of the mine. I asked the bank boss to do the work within ten days; also, to clean the dirt out of the man-way. At the expiration of the ten days I returned and found things in good condition. On May 1, 1893, this company put in a tail-rope haulage system, and it is working very satisfactorily.

New Kentucky Mine No. 1.

Owned by New Kentucky Coal Company. Located at Clinton Locks. This mine was visited twice. I found several boys here, who were ordered out of the mine. The company were erecting a small fan at the bottom of down shaft. I suggested that work on this fan be stopped and a larger fan be erected on the escape shaft. This the superintendent refused to do, holding that the small fan in course of erection would supply sufficient air for present need. I do not deny the truthfulness of his position, but hold that within a short time additional facilities for ventilation at this mine will have to be made if the company expect to materially increase the number of persons employed.

New Kentucky Mine No. 2.

Owned by the New Kentucky Coal Company. Located one-half mile southwest of mine No. 1. This is a new shaft 149 feet deep. The coal is bituminous coal six feet thick. The mine is ventilated by fan. At my request they began sinking an escape shaft, which I presume is completed ere this. The condition of mine was good.

Mecca Mine No. 1.

Owned by Mecca Mining Company. Located one-half mile east of Mecca. This mine was visited several times during the year. On my

last visit I requested an over cast to be made so as to split the air current at the sixth south entry. When this work is done I think the general condition of the mine will be good. Some boys were employed in this mine that were under fourteen years of age whom I ordered out of the mine.

No. 2 Mine.

Owned by the Mecca Mining Company. Located one mile south of mine No. 1. This mine was sunk several years ago and abandoned on the presumption that there was no coal there. In August, of this year, however, the mine was cleaned up and some entries started which in a short time struck good coal. This shaft is 153 feet deep. The mine is ventilated by fan. The coal is about four feet thick and of good bituminous quality, and seems at this time to have a good future before it. At the time of my visit they needed safety catches on the cages and an indicator on the engine. Also an escape shaft. The bank boss promised that these improvements would be made at the earliest possible moment.

Crawford Mine No. 1.

Owned by the Crawford Coal Company. Located two miles northeast of Carbon. It is a shaft which is thirty feet deep to the bottom vein. This coal averages about four feet in thickness. This mine is ventilated by a fan, which produces 34,340 cubic feet of air per minute, 22,020 feet going on the north side of mine, where forty men and two mules are at work, and 12,320 feet on the south side, where forty men and two mules work. This mine was put down September 1. There is a man-way here which is in good shape. The only thing I object to is a lack of doors and brattice, which the boss agreed to fix at once. The mine is well laid off, and when the above work is done it will be in good condition. They also have two entries driven into the top vein, where eight men are now at work. This drift is ventilated by a separate fan from the one that ventilates the bottom vein. There are no rooms nor cross entries turned off of those entries, as the roof does not justify it at this time. It is looking better now, however, and it will be but a short time before enough men will be employed to bring this drift under the mining laws.

Superior Mine.

Owned by the Superior Coal Company. Located one and one-half miles east of Cassville. This is a new shaft, 106 feet deep. It is ventilated by a fan. The coal averages four feet thick. The mine was visited twice. At the time of my last visit stairs were needed in the escape

shaft, also several places need additional break-throughs and some breaks already made needed filling up. They also need one split in the air current on each side of the mine. After talking to Superintendent Zeller I received assurances that this work would be done at once.

McIntosh Mine.

Owned by J. McIntosh & Co. Located one and one-half miles east of Cassville. This is a new shaft 100 feet deep. It is ventilated by a fan. It was visited twice. On my last visit I left orders to have the break-throughs closed and made air tight, also to put a new cover on the north cage. At my request the company are putting down an escape shaft, which will be finished in a short time.

VERMILLION COUNTY.

Norton Creek Mine No. 2.

Owned by the Norton Creek Coal Company. This mine has been operated for several years and will be abandoned in a short time. The company has put down a shaft at the head of the works in this mine and expects to take all coal that now goes out of this slope and out of new shaft. This mine was visited twice, but owing to the fact that the company had gone into the hands of a receiver and was idle, I did not inspect it at the time of my last visit.

Norton Creek Mine No. 3.

Owned by Norton Creek Coal Company. Located one mile west of Clinton. This mine was visited twice. A third split in the air needed. I ordered an overcast made at the sixth south entry, also a cover on the north cage, and safety catches adjusted. Also gates on top of the shaft on the north side. The bank boss promised to have this work done at once.

Anderson Mine No. 1.

Owned by the Hazel Creek Coal Company. Located one mile northwest of Clinton. On account of the mine not being in operation all the year, it was only visited once, at which time I asked the company to close the mouth of all abandoned entries and make them air tight, so as to shut off noxious gases generated therein. Also to take down the loose draw slate between the fourth and fifth south entries. When this work is done I believe the general condition of this mine will be very good.

Anderson Mine No. 2.

Owned by the Hazel Creek Coal Company. Located one mile west of Clinton. This mine was found to lack a split in the air current, and on account of the company having failed to provide the same after they had been notified to do so, I filed an affidavit against the bank boss. The company plead guilty and he was fined. In all other respects the condition of the mine was good.

Thompson Hill Mine.

Owned by the Thompson Hill Company. Located one mile northwest of Clinton. This mine was visited twice. On my first visit objections were made to the amount of air in circulation; also, to lack of split in the air volume. Orders were given to change this, and on returning a second time I found this work almost completed. When the work there under way is finished, I think the condition of the mine will be good.

VIGO COUNTY.

Hercules Mine.

Owned by the Coal Bluff Coal Company. Located just west of Fontanet. This mine was visited twice and found in fair condition. The mine is pretty well worked out. Nearly all of the men now at work are drawing pillars.

Star Mine.

Owned by the Coal Bluff Coal Company. Located one-half mile south of Fontanet. This mine was visited three times and found in fair condition.

Victor Mine.

Owned by the Coal Bluff Coal Company. Located one mile southwest of Coal Bluff. This mine was visited twice. On my first visit an escape shaft was the only thing lacking to make the condition of the mine good. The second visit was made by the Assistant Inspector. In his report to me he does not mention the escape shaft. I therefore presume my request was complied with, and the mine is up to the requirements of the law.

Diamond Mine.

Owned by the Coal Bluff Coal Company. Located one mile south of Coal Bluff. I visited this mine twice during the year, but as it was idle at the time of such visits, I did not inspect it. Later it was visited by the Assistant Inspector and he reports the condition to be good.

Peerless Mine.

Owned by the Coal Bluff Coal Company. Located one mile north of Coal Bluff. This mine was visited twice. At the time of my first visit a very extensive squeeze was affecting the south side of the mine, and there was therefore only room for a few men on the north side of the mine, which was in good condition. On my second visit over eighty men were at work and a division in the air current was badly needed, which the company were then working upon. When this is done the condition of the mine will be good.

Seelyville Mine.

Owned by Julius Ehrlich, successor to P. Ehrlich & Co. Located one-half mile south of Seelyville. This mine was visited twice and found in good condition.

Grant Mine.

Owned by the Grant Coal and Mining Company. Located just east of the town of Grant. This mine has undergone several changes during the year, the company having erected a new pump building, new engine house, new engine and air compressor, with which the Ingersoll Mining Machines are operated. I had some trouble with this company during the year, caused by a failure on their part to weigh coal before it was screened. I filed an affidavit against them. When the case came for trial the company plead guilty and were fined. At the time of my last visit the general condition of the mine was good.

OWEN COUNTY.

Lancaster Mine No. 3.

Owned by the Lancaster Block Coal Company. Located four miles northeast of Clay City. This mine will be worked out and abandoned about March 1, 1894.

Lancashire Mine.

Owned by the Erman Coal Company, successor to J. Hyette. Located just west of Coal City. This mine was visited twice and found in good condition. It is not operated very extensively. The coal is low and the mine is not likely to last long.

Before giving tabulated statement I deem it proper to say that I. McIntosh & Co.'s new mine is not given or considered in any of the tables given. Neither is the Parke County Coal Company's new mine No. 10, in Parke County.

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR JANUARY, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 1	60	4	6	22	7,192
Brazil Block Coal Co., Brazil	No. 2	44	5	4	24	10,000
Brazil Block Coal Co., Brazil	No. 3	58	4	5	22	10,000
Brazil Block Coal Co., Brazil	No. 4	160	10	7	22	22,000
Brazil Block Coal Co., Brazil	No. 6	48	4	4	24	85,000
Brazil Block Coal Co., Brazil	No. 7	48	5	5	26	10,000
Brazil Block Coal Co., Brazil	No. 8	199	13	18	24	38,760
Brazil Block Coal Co., Brazil	No. 9	125	8	10	22	20,000
Brazil Block Coal Co., Brazil	No. 10	10	8	9	25	16,030
Crawford Coal Co., Brazil	No. 2	102	5	7	26	23,400
Crawford Coal Co., Brazil	No. 3	58	6	3	24	15,400
Crawford Coal Co., Brazil	No. 4	32	4	3	24	7,100
Crawford Coal Co., Brazil	No. 5	64	6	3	26	10,750
Crawford Coal Co., Brazil	No. 6	45	7	2	25	8,500
Zeller & Siegler, Knightsville	Columbia	125	7	6	23	23,500
Zeller & Siegler, Knightsville	Am Beauty	105	5	4	22	23,500
Otter Creek Coal Co., Brazil	Nellie	105	6	6	23	15,500
Otter Creek Coal Co., Brazil	Fairview	55	4	1	18	15,000
McIntosh Coal Co., Brazil	Newburg No. 2	70	12	5	20	22,750
D. H. Davis Coal Co., Knightsville	World's Fair	200	8	5	23	35,000
Watson, Little & Co., Brazil	Gartside	137	21	13	25 ⁺	31,700
Jackson Coal Co., Brazil	N. Nickel Plate	104	6	4	26	20,600
Nickel-Plate Coal Co., Brazil	Chicago	40	6	3	24	15,000
Weaver, Getz & Co., Center Point	Church Hill	13	2	1	16 ⁺	9,000
Eureka Block Coal Co., Carbon	No. 1	152	1	9	23	31,500
Hoester Coal Co., Brazil	Hoosier	66	6	3	24	14,200
Weaver, Getz & Co., Center Point	Louise	109	6	5	22	13,500
P. Ehrlich & Co., Newburg	Newburg	68	8	4	20	23,200
Joseph Somers, Staunton	San Pedro	15	60	2	22	8,000
Briar Hill Block Coal Co., Clay City	Briar Hill	52	6	4	24	8,000
Diamond Block Coal Co., Clay City	Diamond	79	12	7	26	13,500
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 1	50	6	10	24	23,000
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 2	30	4	2	24	22,500
Coal Bluff Co., Terre Haute	Pratt	84	7	9	24	23,900
Coal Bluff Co., Terre Haute	Anchor	63	5	5	22	10,220

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR FEBRUARY, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 1	42	5	5	18	6,192
Brazil Block Coal Co., Brazil	No. 2	42	4	3	22	10,000
Brazil Block Coal Co., Brazil	No. 3	82	4	5	20	10,000
Brazil Block Coal Co., Brazil	No. 4	162	11	7	20	22,000
Brazil Block Coal Co., Brazil	No. 6	53	4	4	22	8,500
Brazil Block Coal Co., Brazil	No. 7	22	4	2	10	10,000
Brazil Block Coal Co., Brazil	No. 8	160	13	18	22	38,000
Brazil Block Coal Co., Brazil	No. 9	130	8	10	22	22,000
Brazil Block Coal Co., Brazil	No. 10	80	8	9	20	16,030
Crawford Coal Co., Brazil	No. 2	88	5	7	22	19,200
Crawford Coal Co., Brazil	No. 3	50	6	3	21	16,000
Crawford Coal Co., Brazil	No. 4	28	5	3	20	7,150
Crawford Coal Co., Brazil	No. 5	74	6	3	23	10,200
Crawford Coal Co., Brazil	No. 6	50	6	3	24	10,765
Zeller & Sigler, Knightsville	Columbia	120	7	6	22	23,000
Zeller & Sigler, Knightsville	Am. Beauty	105	5	4	21	22,500
Otter Creek Coal Co., Brazil	Nellie	103	6	6	22	15,800
Otter Creek Coal Co., Brazil	Fairview	56	5	1	23	15,800
McIntosh Coal Co., Brazil	No. 2	70	12	5	22	22,750
D. H. Davis Co., Knightsville	World's Fair	170	8	5	22	30,000
Watson, Little & Co., Brazil	Gartside	146	22	15	19 ¹ / ₂	27,700
Jackson Coal Co., Brazil	N. Nickel Plate	110	6	4	24	20,000
Nickel Plate Coal Co., Brazil	Chicago	32	5	3	24	15,000
Weaver, Getz & Co., Center Point	*Church Hill	13	2	1	12	9,000
Eureka Block Coal Co., Carbon	No. 1	147	16	9	22	27,000
Hoosier Coal Co., Brazil	Hoosier	60	6	3	22	15,600
Weaver, Getz & Co., Center Point	Louise	125	6	5	20	15,000
P. Ehrlich & Co., Newburg	Newburg	63	8	4	13	23,200
J. Somers, Staunton	S. P.	60	5	2	23	7,300
Briar Hill Block Coal Co., Clay City	Briar Hill	49	6	4	23	8,000
Diamond Block Coal Co., Clay City	Diamond	83	12	6	24	13,500
Chicago & Ind. B'k Coal Co., T. Haute	No. 1	42	6	10	23	22,000
Chicago & Ind. B'k Coal Co., T. Haute	No. 2	43	4	2	23	21,500
Coal Bluff Co., Terre Haute	Pratt	85	7	9	22	26,300
Coal Bluff Co., Terre Haute	Anchor	59	5	5	19	10,300

* Abandoned.

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR MARCH, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 1	48	5	5	22	10,000
Brazil Block Coal Co., Brazil	No. 2	42	5	4	20	10,000
Brazil Block Coal Co., Brazil	No. 3	55	5	5	22	10,000
Brazil Block Coal Co., Brazil	No. 4	165	10	7	18	22,000
Brazil Block Coal Co., Brazil	No. 6	50	5	4	27	10,000
Brazil Block Coal Co., Brazil	No. 8	155	13	18	24	38,000
Brazil Block Coal Co., Brazil	No. 9	132	9	11	18	25,000
Brazil Block Coal Co., Brazil	No. 10	90	8	11	24	16,000
Crawford Coal Co., Brazil	No. 2	67	5	6	26	16,510
Crawford Coal Co., Brazil	No. 3	46	5	3	25	12,000
Crawford Coal Co., Brazil	No. 4	38	5	3	19	10,000
Crawford Coal Co., Brazil	No. 5	101	6	4	22	17,362
Crawford Coal Co., Brazil	No. 6	54	5	3	27	9,100
Zeller & Sigler, Knightsville	Columbia	130	7	6	17	22,500
Zeller & Sigler, Knightsville	Am. Beauty	110	5	3	13	23,500
Otter Creek Coal Co., Brazil	Nellie	101	6	6	18	15,800
Otter Creek Coal Co., Brazil	Fairview	79	5	1	22	15,800
McIntosh Coal Co., Brazil	No. 2	70	12	5	19	22,750
D. H. Davis Coal Co., Knightsville	World's Fair	125	7	5	16	30,000
Watson, Little & Co., Brazil	Gartside	168	19	15	24 ⁺	24,570
Jackson Coal Co., Brazil	New Nickel Plate	107	6	4	14	20,000
Nickel Plate Coal Co., Brazil	Chicago*	30	3	2	17	15,000
Eureka Block Coal Co., Carbon	No. 1	141	11	9	26	29,000
Hoosier Coal Co., Brazil	Hoosier	70	5	3	18	15,600
Weaver, Getz & Co., Center Point	Louise	151	6	5	19	18,000
P. Ehrlich & Co., Newburg	Newburg	59	8	4	12	23,200
J. Semers, Staunton	S. P	73	11	2	18	10,000
Briar Hill Block Coal Co., Clay City	Briar Hill	50	6	5	25	8,000
Diamond Block Coal Co., Clay City	Diamond	74	10	5	24	13,500
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 1	35	6	9	22	23,500
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 2	50	6	3	27	21,500
Coal Bluff Co., Terre Haute	Pratt	80	6	9	19 ⁺	25,000
Coal Bluff Co., Terre Haute	Anchor	65	5	5	22	9,900

* Abandoned.

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR APRIL, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 1	45	6	4	20	10,000
Brazil Block Coal Co., Brazil	No. 2*	42	7	3	7	10,000
Brazil Block Coal Co., Brazil	No. 3	50	5	4	22	20,000
Brazil Block Coal Co., Brazil	No. 4	100	6	5	16	22,000
Brazil Block Coal Co., Brazil	No. 6	42	5	3	22	7,000
Brazil Block Coal Co., Brazil	No. 8	174	12	14	15	37,185
Brazil Block Coal Co., Brazil	No. 9	110	7	8	13	24,000
Brazil Block Coal Co., Brazil	No. 10	100	8	11	20	16,380
Crawford Coal Co., Brazil	No. 2	95	5	4	24	24,000
Crawford Coal Co., Brazil	No. 3	50	5	3	25	15,300
Crawford Coal Co., Brazil	No. 4	42	5	3	24	10,000
Crawford Coal Co., Brazil	No. 5	115	6	4	24	17,000
Crawford Coal Co., Brazil	No. 6	45	6	3	23	10,500
Zeller & Sigler, Knightsville	Columbia	125	7	6	17	23,000
Zeller & Sigler, Knightsville	Am Beauty	110	6	4	13	22,000
Otter Creek Coal Co., Brazil	Nellie	100	5	6	15	16,300
Otter Creek Coal Co., Brazil	Fairview	91	5	2	19	19,880
McIntosh Coal Co., Brazil	No. 2	10	12	5	19	22,750
D. H. Davis Coal Co., Knightsville	World's Fair	75	7	4	14	30,000
Watson, Little & Co., Brazil	Gartside	158	10	14	24	28,570
Jackson Coal Co., Brazil	N. Nickel Plate	153	7	5	18	15,000
Eureka Coal Co., Carbon	No. 1	152	10	9	10	19,600
Weaver, Getz & Co., Center Point	Louise	153	7	5	24	18,000
P. Ehrlich & Co., Newburg	Newburg	54	8	4	14	23,100
J. Somers, Staunton	San Pedro	52	12	2	15	6,000
Briar Hill Block Coal Co., Clay City	Briar Hill	48	8	5	20	7,800
Diamond Block Coal Co., Clay City	Diamond	55	13	6	22	13,500
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 1	35	5	3	20	22,500
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 2	60	5	5	13*	23,500
Coal Bluff Co., Terre Haute	Pratt	78	6	9	9	26,600
Coal Bluff Co., Terre Haute	Anchor	60	5	5	12	10,400

*Finished April 7, 1893.

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR MAY, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 3	42	5	4	21	10,000
Brazil Block Coal Co., Brazil	No. 4	55	6	4	19	20,000
Brazil Block Coal Co., Brazil	No. 6	35	4	4	22	7,000
Brazil Block Coal Co., Brazil	No. 8	110	8	12	14	30,000
Brazil Block Coal Co., Brazil	No. 9	77	5	5	18	18,000
Brazil Block Coal Co., Brazil	No. 10	89	8	10	12	16,380
Crawford Coal Co., Brazil	No. 2	99	5	5	23	19,750
Crawford Coal Co., Brazil	No. 3	61	5	5	21	19,000
Crawford Coal Co., Brazil	No. 4	43	5	3	20	8,200
Crawford Coal Co., Brazil	No. 5	86	6	4	21	13,000
Crawford Coal Co., Brazil	No. 6	30	5	5	22	8,400
Zeller & Sigler, Knightsville	Columbia	115	7	7	20	22,250
Zeller & Sigler, Knightsville	Am. Beauty	95	7	3	19	22,000
Otter Creek Coal Co., Brazil	Nellie	102	4	16	17	11,330
Otter Creek Coal Co., Brazil	Fairview	88	6	3	20	19,860
McIntosh Coal Co., Brazil	Newburg No. 2	70	12	5	12	22,750
D. H. Davis Coal Co., Knightsville	World's Fair	80	6	4	13½	30,000
Watson, Little & Co., Brazil	Gartside	156	10	12	15½	23,450
Jackson Coal Co., Brazil	New Nickel Plate	151	7	20	20	15,000
Eureka Block Coal Co., Carbon	No. 1	95	10	9	9½	20,400
Weaver, Getz & Co., Center Point	Louise	90	5	4	13½	9,700
C. Ehrlich & Co., Newburg	Newburg	46	7	7	16	31,000
J. Somers, Staunton	S. P.	45	10	2	7	6,000
Briar Hill Block Coal Co., Clay City	Briar Hill	52	7	6	24	7,400
Diamond Block Coal Co., Clay City	Diamond	70	10	5	25	12,000
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 1	22	4	4	10	24,000
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 2	60	5	5	8½	23,500
Coal Bluff Co., Terre Haute	Pratt	40	4	4	18	22,000
Coal Bluff Co., Terre Haute	Anchor	23	4	3	18	10,400

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR JUNE, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine Per Minute.
	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 3	36	5	4	22	10,000
Brazil Block Coal Co., Brazil	No. 4	65	6	4	19	20,000
Brazil Block Coal Co., Brazil	No. 6	42	4	4	22	7,000
Brazil Block Coal Co., Brazil	No. 8	110	8	12	11	30,000
Brazil Block Coal Co., Brazil	No. 9	74	5	5	19	18,000
Brazil Block Coal Co., Brazil	No. 10	75	8	10	16	16,000
Crawford Coal Co., Brazil	No. 2	82	5	5	20	24,500
Crawford Coal Co., Brazil	No. 3	44	5	3	13	15,700
Crawford Coal Co., Brazil	No. 4	60	5	3	14	11,000
Crawford Coal Co., Brazil	No. 5	93	6	5	9	17,300
Crawford Coal Co., Brazil	No. 6	43	6	3	12	9,700
Zeller & Sigler, Knightsville	Columbia	120	6	6	15	23,000
Zeller & Sigler, Knightsville	Am. Beauty	100	7	4	17	23,000
Otter Creek Coal Co., Brazil	Nellie	40	2	3	15	10,000
Otter Creek Coal Co., Brazil	Fairview	108	6	3	18	17,920
McIntosh Coal Co., Brazil	No. 2	73	12	5	16	22,750
J. H. Zeller Coal Co., Knightsville	Briar Hill	20	5	5	24	10,000
D. H. Davis Coal Co., Knightsville	World's Fair	80	6	4	5 $\frac{1}{2}$	30,000
Watson, Little & Co., Brazil	Gartside	133	10	14	6	20,690
Jackson Coal Co., Brazil	N. Nickel Plate	152	7	8	21	15,000
Eureka Coal Co., Carbon	No. 1	103	10	9	9	16,800
Weaver, Getz & Co., Center Point	*Louise					
C. Ehrlich, Newburg	Newburg	53	7	4	10	31,000
J. Somers, Staunton	San Pedro	46	10	2	6	6,000
Briar Hill Block Coal Co., Clay City	Briar Hill	48	7	6	21	7,400
Diamond Block Coal Co., Clay City	Diamond	63	7	5	24	12,000
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 1	53	5	5	11	22,500
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 2	45	5	5	9	23,000
Coal Bluff Co., Terre Haute	Pratt	23	3	3	6	20,500
Coal Bluff Co., Terre Haute	Anchor	11	2	1	11	10,400

*Idle entire month.

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR JULY, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number of Cubic Feet of Air Circulating in Mine Per Minute.
	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 3	34	5	4	18	10,000
Brazil Block Coal Co., Brazil	No. 4	208	10	8	21	24,070
Brazil Block Coal Co., Brazil	No. 5	40	4	4	24	7,000
Brazil Block Coal Co., Brazil	No. 6	120	8	13	12	35,000
Brazil Block Coal Co., Brazil	No. 8	90	9	9	15	25,000
Brazil Block Coal Co., Brazil	No. 9	55	7	8	9	20,000
Brazil Block Coal Co., Brazil	No. 10	106	5	5	20	24,000
Crawford Coal Co., Brazil	No. 2	45	5	3	18	18,000
Crawford Coal Co., Brazil	No. 3	48	5	3	18	9,000
Crawford Coal Co., Brazil	No. 4	113	7	5	19	18,600
Crawford Coal Co., Brazil	No. 5	42	5	3	17	17,000
Crawford Coal Co., Brazil	No. 6	110	5	6	20	22,000
Zeller & Sigler, Knightsville	Columbia	90	5	4	17	23,000
Zeller & Sigler, Knightsville	Am. Beauty	22	2	2	20	11,300
Otter Creek Coal Co., Brazil	Nellie	120	6	3	18	17,160
Otter Creek Coal Co., Brazil	Fairview	73	12	5	14	22,750
I. McIntosh, Brazil	No. 2	30	5	4	23	10,000
J. H. Zeller & Co., Knightsville	Briar Hill	80	6	4	9	30,000
D. H. Davis & Co., Knightsville	World's Fair	133	10	14	10†	20,570
Watson, Little & Co., Brazil	Gartside	141	7	5	21	15,000
Jackson Coal Co., Brazil	N. Nickel Plate	107	10	9	15	21,600
Eureka Block Coal Co., Carbon	No. 1					
Weaver, Getz & Co., Center Point	*Louise	31	7	6	6‡	29,000
C. Ehrlich & Co., Newburg	Newburg	44	9	2	11	6,000
J. Somers, Staunton	San Pedro	46	7	7	24	7,400
Briar Hill Block Coal Co., Clay City	Briar Hill	48	7	4	24	12,000
Diamond Block Coal Co., Clay City	Diamond	14	10	3	10	23,000
C. and I. Block Coal Co., Terre Haute	No. 1	50	5	5	9	23,500
C. and I. Block Coal Co., Terre Haute	No. 2	33	4	4	11	23,000
Coal Bluff Co., Terre Haute	Pratt	20	2	2	22†	10,400
Coal Bluff Co., Terre Haute	Anchor					

* Idle entire month.

† Eight hours.

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR AUGUST, 1898.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 3	24	4	4	16	10,000
Brazil Block Coal Co., Brazil	No. 4	206	16	9	27	24,500
Brazil Block Coal Co., Brazil	No. 6	48	5	6	24	10,000
Brazil Block Coal Co., Brazil	No. 8	166	8	13	13	36,897
Brazil Block Coal Co., Brazil	No. 9	95	6	9	25	25,000
Brazil Block Coal Co., Brazil	No. 10	45	7	3	12	20,000
Crawford Coal Co., Brazil	No. 2	74	5	3	27	20,000
Crawford Coal Co., Brazil	No. 3	35	4	2	25	18,000
Crawford Coal Co., Brazil	No. 4	70	5	2	21	10,200
Crawford Coal Co., Brazil	No. 5	141	7	5	22	19,000
Crawford Coal Co., Brazil	No. 6	38	4	3	20	6,200
Zeller & Sigler, Knightsville	Columbia	110	7	9	22	23,000
Zeller & Sigler, Knightsville	Am. Beauty	105	7	5	25	23,000
Otter Creek Coal Co., Brazil	Nellie	84	5	7	12	15,000
Otter Creek Coal Co., Brazil	Fairview	124	6	4	16	20,900
I. McIntosh Coal Co., Brazil	No. 2	76	12	5	18	22,750
J. H. Zeller & Co., Knightsville	B. H.	45	5	1	24	12,000
D. H. Davis Coal Co., Knightsville	World's Fair	93	7	5	10	30,000
Watson, Little & Co., Brazil	Gartside	141	10	14	16 $\frac{1}{2}$	22,050
Jackson Coal Co., Brazil	New Nickel Plate	120	7	4	21	100,000
Eureka Coal Co., Carbon	No. 1	115	10	8	12 $\frac{1}{2}$	16,500
Weaver, Getz & Co., Center Point	Louise*					
C. Ehrlich & Co., Newburg	Newburg	57	8	4	10	36,000
J. Somers, Staunton	S. P.	50	9	2	9	7,350
Briar Hill Block Coal Co., Clay City	Briar Hill	48	7	2	22	8,000
Diamond Block Coal Co., Clay City	Diamond	54	10	4	26	125,000
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 1	16	3	3	14	24,000
Clay County Block Coal Co., Brazil	Gladstone	21	7	4	24	3,000
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 2	70	6	5	12	23,000
Coal Bluff Co., Terre Haute	Pratt	80	7	8	20	25,400
Coal Bluff Co., Terre Haute	Anchor	45	3	4	23	8,850

* Idle entire month.

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR SEPTEMBER, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
Brazil Block Coal Co., Brazil	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 3	36	5	3	23	20,000
Brazil Block Coal Co., Brazil	No. 4	205	10	3	21	24,000
Brazil Block Coal Co., Brazil	No. 6	43	4	5	24	9,600
Brazil Block Coal Co., Brazil	No. 8	125	8	12	13	35,000
Brazil Block Coal Co., Brazil	No. 9	105	6	9	18	25,000
Brazil Block Coal Co., Brazil	No. 10	35	3	4	19	16,740
Crawford Coal Co., Brazil	No. 2 ^s	44	4	2	19	18,000
Crawford Coal Co., Brazil	No. 3	35	5	2	21	15,000
Crawford Coal Co., Brazil	No. 4	93	5	3	17	13,000
Crawford Coal Co., Brazil	No. 5	119	7	3	24	18,000
Crawford Coal Co., Brazil	No. 6	30	5	3	21	8,000
Zeller & Sigler, Knightsville	Columbia	110	7	9	8	22,350
Zeller & Sigler, Knightsville	Am. Beauty	106	7	4	12	22,500
Otter Creek Coal Co., Brazil	Nellie	106	5	7	14	14,750
Otter Creek Coal Co., Brazil	Fairview	120	6	4	14 [†]	21,280
I. McIntosh Coal Co., Brazil	No. 2	76	12	5	17	22,750
J. H. Zeller & Co., Knightsville	Briar Hill	60	5	1	23	15,000
D. H. Davis Coal Co., Knightsville	World's Fair	93	7	5	10	30,000
Watson, Little & Co., Brazil	Gartside	137	10	14	15 [†]	23,850
Jackson Coal Co., Brazil	N. Nickel Plate	128	7	5	24	100,000
Jackson Coal Co., Brazil	Brazil	52	4		24	
Enreka Block Coal Co., Carbon	No. 1	113	14	8	14 [†]	14,300
C. Ehrlich & Co., Perth	No. 1	43	5	3	13	17,500
C. Ehrlich & Co., Perth	No. 2	25	1	1	8	8,890
Weaver, Getz & Co., Centre Point	Louise†					
C. Ehrlich & Co., Turner	Newburg	51	8	4	9	30,000
J. Somers, Staunton	San Pedro	54	9	2	9	8,000
Briar Hill Block Coal Co., Clay City	Briar Hill	48	7	4	18	8,000
Diamond Block Coal Co., Clay City	Diamond	52	7	4	23	12,500
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 11	16	3	3	16	23,000
Clay County Bl'k Coal Co., Brazil	Gladstone	27	5		23	3,000
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 2	80	6	5	12	23,500
Coal Bluff Coal Co., Terre Haute	Pratt	75	7	8	13	25,000
Coal Bluff Coal Co., Terre Haute	Anchor	43	3	4	21	9,000

* Worked out and abandoned. † Idle entire month. ‡ Worked out and abandoned.

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR OCTOBER, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 1	14	4	2	12	10,000
Brazil Block Coal Co., Brazil	No. 3	50	5	4	20	15,000
Brazil Block Coal Co., Brazil	No. 4	222	15	6	23	24,730
Brazil Block Coal Co., Brazil	No. 6	66	4	17	17	10,600
Brazil Block Coal Co., Brazil	No. 8	174	13	7	6	36,000
Brazil Block Coal Co., Brazil	No. 9	99	7	12	11	19,000
Brazil Block Coal Co., Brazil	No. 10	9	5	7	1	16,740
Crawford Coal Co., Brazil	No. 3	24	4	1	12	15,000
Crawford Coal Co., Brazil	No. 4	115	5	6	20	12,900
Crawford Coal Co., Brazil	No. 5	150	7	8	25	19,000
Zeller & Sigler, Knightsville	Columbia	110	7	8	9	22,000
Zeller & Sigler, Knightsville	Am Beauty	120	8	4	7	22,000
Otter Creek Coal Co., Brazil	Nellie	97	4	6	8	11,600
Otter Creek Coal Co., Brazil	Fairview	121	6	4	9	22,400
I. McIntosh Coal Co., Brazil	No. 2	78	12	5	22	22,750
J. H. Zeller Coal Co., Knightsville	Briar Hill	75	6	2	20	10,000
D. H. Davis Co., Knightsville	World's Fair	100	7	5	10	30,000
Watson, Little & Co., Brazil	Gartside	136	10	14	12	23,940
Jackson Coal Co., Brazil	New Nickel Plate	138	8	5	24	100,000
Eureka Block Coal Co., Carbon	No. 2	16	3		9	
Jackson Coal Co., Brazil	Brazil	74	5		23	21,000
Eureka Block Coal Co., Carbon	No. 1	121	9	8	12	14,500
C. Ehrlich & Co., Perth	No. 1	33	2	1	10	9,400
C. Ehrlich & Co., Perth	No. 2	72	9	4	10	33,000
Weaver, Getz & Co., Center Point	*Louise					
C. Ehrlich, Turner	Newburg	52	7	3	8	12,400
J. Somers, Staunton	S. P.	56	9	2	12	8,000*
Briar Hill Block Coal Co., Clay City	Briar Hill	46	7	4	23	7,000
Diamond Block Coal Co., Clay City	Diamond	39	7		15	12,500
Clay County Block Coal Co., Brazil	Glad	30	5		24	4,000
Chicago & Ind. B ^l k Coal Co., T. Haute	No. 2	90	6	7	9†	23,000
Coal Bluff Co., Terre Haute	Pratt	75	7	8	12	24,000
Coal Bluff Co., Terre Haute	Anchor	48	3	4	19	8,900

* Idle entire month.

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR NOVEMBER, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
	Gartsherre—					
Brazil Block Coal Co., Brazil	No. 1	14	4	2	17	10,000
Brazil Block Coal Co., Brazil	No. 3	55	5	3	16	15,000
Brazil Block Coal Co., Brazil	No. 4	197	12	10	16	22,218
Brazil Block Coal Co., Brazil	No. 6	53	4	4	13	9,000
Brazil Block Coal Co., Brazil	No. 8	183	13	12	9	22,915
Brazil Block Coal Co., Brazil	No. 9	44		2	9	10,000
Brazil Block Coal Co., Brazil	No. 10	9		2	9	20,000
Crawford Coal Co., Brazil	No. 4	89	4	2	20	13,060
Crawford Coal Co., Brazil	No. 5	158	7	6	16	18,500
Crawford Coal Co., Brazil	No. 6	17	4	2	15	7,000
Zeller & Sigler, Knightsville	Columbia	105	7	3	10 1/2	22,250
Zeller & Sigler, Knightsville	Am. Beauty	105	7	4	9	22,250
Otter Creek Coal Co., Brazil	Nellie	66	2	2	7	11,800
Otter Creek Coal Co., Brazil	Fairview	114	6	3	10	22,900
I. McIntosh Coal Co., Brazil	Newburg No. 2	70	12	5	9	22,750
J. H. Zeller & Co., Knightsville	Briar Hill	80		2	14	16,000
D. H. Davis & Co., Knightsville	World's Fair	100	7	7	8 1/2	30,000
Watson, Little & Co., Brazil	Gartside	145	9	15	12	19,300
Jackson Coal Co., Brazil	New Nickel Plate	146	8	6	15	100,000
Eureka Block Coal Co., Carbon	No. 2	26	5	1	10	5,000
Jackson Coal Co., Brazil	Brazil	111	3	6	24	10,000
Eureka Block Coal Co., Carbon	No. 1	37	2	1	9 1/2	14,400
C. Ehrlich & Co., Perth	No. 1	69	4	4	15	10,200
C. Ehrlich & Co., Perth	No. 2	69	4	4	11	34,600
Weaver, Getz & Co., Center Point	Louise	126	9	4	11	12,500
P. Ehrlich & Co., Turner	Newburg	62	5	3	11	12,800
J. Somers, Staunton	Newburg	46	9	2	13	8,000
Briar Hill Block Coal Co., Clay City	San Pedro	45	7	3	15	7,000
Briar Hill Block Coal Co., Clay City	Briar Hill	45	7	3	24	12,500
Diamond Block Coal Co., Clay City	Diamond	23	6		20	5,000
Clay County Block Coal Co., Brazil	Gladstone	43	5		10	23,500
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 2	98	8	7	20	25,000
Coal Bluff Co., Terre Haute	Pratt	70	6	7	10 1/2	25,000
Coal Bluff Co., Terre Haute	Anchor	45	3	4	19	9,290

MONTHLY REPORT OF MINES IN CLAY COUNTY, IND., FOR DECEMBER, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
Brazil Block Coal Co., Brazil	Gartscherre—					
Brazil Block Coal Co., Brazil	No. 1	16	4	2	22	10,000
Brazil Block Coal Co., Brazil	No. 2*					
Brazil Block Coal Co., Brazil	No. 3	50	5	3	18	12,000
Brazil Block Coal Co., Brazil	No. 4	213	12	10	18	22,400
Brazil Block Coal Co., Brazil	No. 6	46	4	4	20	7,900
Brazil Block Coal Co., Brazil	No. 8	161	9	12	11	25,528
Brazil Block Coal Co., Brazil	No. 9	55	5	4	8	20,000
Brazil Block Coal Co., Brazil	No. 10†					
Crawford Coal Co., Brazil	No. 5	142	8	6	11	20,444
Crawford Coal Co., Brazil	No. 4	118	5	5	18	14,200
Zeller & Sigler, Knightsville	Am. Beauty	110	8	4	10	23,000
Zeller & Sigler, Knightsville	Columbian	110	7	7	12	22,000
Otter Creek Coal Co., Brazil	Nellie	75	2	3	18	15,100
Otter Creek Coal Co., Brazil	Fairview	136	6	5	12	23,100
I. McIntosh Coal Co., Brazil	Newburg, No. 2	65	12	5	10	22,750
J. H. Zeller & Co., Knightsville	Briar Hill	80	6	2	14	8,000
D. H. Davis Coal Co., Knightsville	World's Fair	110	7	5	13	30,000
Watson, Little & Co., Brazil	Gartside	145	10	15	13‡	19,910
Jackson Coal Co., Brazil	New Nickel Plate	141	7	5	11	100,000
Eureka Block Coal Co., Carbon	No. 2	33	3	1	12	5,000
Jackson Coal Co., Brazil	Brazil	83	5	1	20	10,000
Eureka Block Coal Co., Carbon	No. 1	57	8	4	10‡	14,300
C. Ehrlich & Co., Perth	No. 1	39	2	1	18	10,600
C. Ehrlich & Co., Perth	No. 2	67	9	4	13	35,000
Weaver, Getz & Co., Center Point	Louise	145	5	4	8	15,700
C. Ehrlich & Co., Turner	Newburg	63	8	3	21	14,500
J. Somers, Staunton	San Pedro	63	9	2	15	3,000
Briar Hill Block Coal Co., Clay City	Briar Hill	46	7	4	21	7,000
Diamond Block Coal Co., Clay City	Diamond	19	6	6	22	12,500
Clay County Block Coal Co., Brazil	Gladstone	78	6	2	14	9,000
Chicago & Ind. Bl'k Coal Co., T. Haute	No. 2	109	7	7	8‡	23,000
Coal Bluff Co., Terre Haute	Pratt	60	6	6	10	24,500
Coal Bluff Co., Terre Haute	Anchor	43	3	7	22	8,700

* Abandoned January 2, 1894.

† Shut down.

MONTHLY REPORT OF MINES IN VERMILION COUNTY, IND., FOR JANUARY, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
Hazel Creek Coal Co., Clinton	Hazel Creek	95	15	12	22	28,050
Hazel Creek Coal Co., Clinton	Fern Hill	98	14	7	22	32,098
Thompson Hill Mining Co., Clinton	Thompson Hill	75	7	4	22	7,500
Norton Creek Coal Co., Clinton	No. 2				19	

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR FEBRUARY, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
Hazel Creek Coal Co., Clinton	Hazel Creek . . .	98	16	12	17	28,050
Hazel Creek Coal Co., Clinton	Fern Hill	95	14	7	17	32,098
Thompson Hill Mining Co., Clinton	Thompson Hill . . .	70	7	4	20	7,500
Norton Creek Coal Co., Clinton	No. 2 . . . . .	..	..	..	18	..

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR MARCH, 1893.

Hazel Creek Coal Co., Clinton	Hazel Creek . . .	90	15	12	14	28,050
Hazel Creek Coal Co., Clinton	Fern Hill	92	14	7	12	32,098
Thompson Hill Mining Co., Clinton	Thompson Hill . . .	65	7	4	13	7,500
Norton Creek Coal Co., Clinton	No. 2 . . . . .	..	..	..	21	..

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR APRIL, 1893.

Hazel Creek Coal Co., Clinton	Hazel Creek . . .	50	10	12	3 $\frac{1}{2}$	120,000
Hazel Creek Coal Co., Clinton	Fern Hill	125	12	8	10 $\frac{1}{2}$	144,000
Thompson Hill Mining Co., Clinton	Thompson Hill . . .	80	20	5	20	8,500
Norton Creek Coal Co., Clinton	No. 2 . . . . .	..	..	..	15	..

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR MAY, 1893.

Hazel Creek Coal Co., Clinton	Hazel Creek . . .	..	3	..	..	..
Hazel Creek Coal Co., Clinton	Fern Hill	185	11	10	15	56,600
Thompson Hill Mining Co., Clinton	Thompson Hill . . .	81	15	6	12	8,500
Norton Creek Coal Co., Clinton	No. 2 . . . . .	..	..	..	18	..

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR JUNE, 1893.

Hazel Creek Coal Co., Clinton	*Hazel Creek . . .	..	3	..	..	..
Hazel Creek Coal Co., Clinton	Fern Hill	165	11	11	10	56,600
Thompson Hill Mining Co., Clinton	Thompson Hill . . .	45	6	4	7	8,500
Norton Creek Coal Co., Clinton	No. 2 . . . . .	..	..	..	7 $\frac{1}{2}$	..

* Not in operation.

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR JULY, 1893

Hazel Creek Coal Co., Clinton	*Hazel Creek . . .	..	..	..	..	..
Hazel Creek Coal Co., Clinton	Fern Hill	185	11	11	15	56,600
Thompson Hill Coal Co., Clinton	Thompson Hill . . .	76	10	5	10	8,500
Norton Creek Coal Co., Clinton	No. 4 . . . . .	..	..	..	12	..

* Not in operation.

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR AUGUST, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
Hazel Creek Coal Co., Clinton	*Hazel Creek	197	15	14	11	51,000
Hazel Creek Coal Co., Clinton	Fern Hill	80	10	5	13	8,500
Thompson Hill Coal Co., Clinton	Thompson Hill					
Norton Creek Coal Co., Clinton	*No. 2					

* Not in operation.

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR SEPTEMBER, 1893.

Hazel Creek Coal Co., Clinton	Hazel Creek*	203	18	16	15	52,000
Hazel Creek Coal Co., Clinton	Fern Hill	85	10	5	11	85,000
Thompson Hill Co., Clinton	Thompson Hill					

* Not in operation.

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR OCTOBER, 1893.

Hazel Creek Coal Co., Clinton	Hazel Creek	75	10	14	15	48,000
Hazel Creek Coal Co., Clinton	Fern Hill	203	18	16	14	52,000
Thompson Hill Co., Clinton	Thompson Hill	72	10	5	14	8,500
Torrey Coal Co., Clinton	No. 4	115	15	5	15	17,800

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR NOVEMBER, 1893.

Hazel Creek Coal Co., Clinton, Ind. . .	Hazel Creek	90	12	14	13	48,000
Hazel Creek Coal Co., Clinton, Ind. . .	F. Hill	201	18	16	13	52,000
Thompson Hill Co., Clinton, Ind. . . .	T. Hill	65	8	5	5	8,500
Torrey Coal & Mining Co., Clinton, Ind	No. 4	145	20	7	12	17,900

MONTHLY REPORT OF MINES IN VERMILLION COUNTY, IND., FOR DECEMBER, 1893.

Hazel Creek Coal Co., Clinton, Ind. . .	Hazel Creek	91	12	14	14	48,000
Hazel Creek Coal Co., Clinton, Ind. . .	F. Hill	203	18	16	14	52,000
*Thompson Hill Co., Clinton, Ind. . . .	T. Hill					
Torrey Coal Co., Clinton, Ind. . . .	No. 4	155	20	8	20	18,000

* Not in operation.

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR JANUARY, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Mine.	Number Cubic Feet of Air Circulating in Mine per Minute.
Coal Bluff Coal Co., Terre Haute . . .	Hercules	114	17	14	21	47,500
Coal Bluff Coal Co., Terre Haute . . .	Star	85	9	8	22	34,000
Coal Bluff Coal Co., Terre Haute . . .	Diamond	85	5	4	17	12,700
Coal Bluff Coal Co., Terre Haute . . .	Victor	25	3	2	22	21,000
Western Indiana Coal Co., Terre Haute	Peerless	55	5	3	21	16,000
P. Ehrlich & Co., Seelyville	Seelyville	60	8	5	24	20,000
Grant Coal and Mining Co., Burnett . . .	Grant	100	10	6	21	25,000

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR FEBRUARY, 1893.

Coal Bluff Coal Co., Terre Haute . . .	Hercules	112	16	14	23	48,000
Coal Bluff Coal Co., Terre Haute . . .	Star	88	8	8	18 $\frac{1}{2}$	32,700
Coal Bluff Coal Co., Terre Haute . . .	Diamond	82	5	4	26 $\frac{1}{2}$	13,400
Coal Bluff Coal Co., Terre Haute . . .	Victor	25	2	2	22	
Western Indiana Coal Co., Terre Haute	Peerless	62	5	3	19	17,000
P. Ehrlich & Co., Seelyville	Seelyville	60	8	5	21	20,000
Grant Coal and Mining Co., Burnett . . .	Grant	100	10	7	23	25,000

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR MARCH, 1893.

Coal Bluff Coal Co., Terre Haute . . .	Hercules	115	16	13	25	46,800
Coal Bluff Coal Co., Terre Haute . . .	Star	82	8	8	24	35,400
Coal Bluff Coal Co., Terre Haute . . .	Diamond	80	5	4	22	12,500
Coal Bluff Coal Co., Terre Haute . . .	Victor	34	4	2	23	
Western Indiana Coal Co., Terre Haute	Peerless	67	6	3	17	18,000
P. Ehrlich & Co., Seelyville	Seelyville	50	8	5	19	20,000
Grant Coal Mining Co., Burnett	Grant	100	10	7	26	25,000

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR APRIL, 1893.

Coal Bluff Coal Co., Terre Haute . . .	Hercules	112	13	13	26	47,400
Coal Bluff Coal Co., Terre Haute . . .	Star	85	8	8	22	34,900
Coal Bluff Coal Co., Terre Haute . . .	Diamond	75	5	4	16	13,900
Coal Bluff Coal Co., Terre Haute . . .	Victor	35	4	3	21	
Western Indiana Coal Co., Terre Haute	Peerless	48	7	3	11	18,000
P. Ehrlich & Co., Seelyville	Seelyville	46	8	5	23	20,000
Grant Coal Mining Co., Burnett	Grant	100	10	7	20	25,000

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR MAY, 1893.

Coal Bluff Coal Co., Terre Haute . . .	Hercules	121	13	12	13	46,000
Coal Bluff Coal Co., Terre Haute . . .	Star	95	6	7	13	22,500
Coal Bluff Coal Co., Terre Haute . . .	Diamond	80	6	4	12	25,000
Coal Bluff Coal Co., Terre Haute . . .	Victor	45	4	2	11	17,500
Western Indiana Coal Co., Terre Haute	Peerless	34	7	2	5	16,000
J. Ehrlich Coal Co., Seelyville	Seelyville	51	7	5	5	15,200
Grant Coal and Mining Co., Burnett . . .	Grant	76	11	5	7	28,000

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR JUNE, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet Air of Circulating in Mine per Minute.
Coal Bluff Coal Co., Terre Haute . . .	Hercules	125	13	13	23	47,500
Coal Bluff Coal Co., Terre Haute . . .	Star	103	7	8	23	23,000
Coal Bluff Coal Co., Terre Haute . . .	Diamond	90	7	4	21	25,400
Coal Bluff Coal Co., Terre Haute . . .	Victor	53	6	3	19	18,500
Western Indiana Coal Co., Terre Haute	Peerless	36	7	2	8	15,000
J. Ehrlich Coal Co., Seelyville	Seelyville	53	7	5	16	15,000
Grant Coal and Mining Co., Burnett . .	Grant	56	11	5	23	28,000

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR JULY, 1893.

Coal Bluff Co., Terre Haute	Hercules	110	10	11	18	45,000
Coal Bluff Co., Terre Haute	Star	105	7	8	18	24,000
Coal Bluff Co., Terre Haute	Diamond	90	7	4	19	24,900
Coal Bluff Co., Terre Haute	Victor	55	6	3	16	18,000
Western Indiana Coal Co., Terre Haute	Peerless	34	7	2	11	15,000
J. Ehrlich Coal Co., Seelyville	Seelyville	48	7	5	13	15,000
Grant Coal and Mining Co., Burnett . .	Grant	51	10	5	8	28,000

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR AUGUST, 1893.

Coal Bluff Co., Terre Haute	Hercules	100	13	12	18†	38,000
Coal Bluff Co., Terre Haute	Star	110	7	11	15	24,000
Coal Bluff Co., Terre Haute	Diamond	102	7	4	12	20,500
Coal Bluff Co., Terre Haute	*Victor					
Western Indiana Coal Co., Terre Haute	†Peerless					
J. Ehrlich Coal Co., Seelyville	Seelyville	60	7	5	9	15,000
Grant Coal and Mining Co., Burnett . .	Grant	50	9	6	2	35,000

* This mine operated in small way from August to January 1. † Not in operation this month.

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR SEPTEMBER, 1893.

Coal Bluff Coal Co., Terre Haute . . .	Hercules	98	12	12	24	38,500
Coal Bluff Coal Co., Terre Haute . . .	Star	105	7	11	22†	
Coal Bluff Coal Co., Terre Haute . . .	Diamond	100	6	4	18†	
Coal Bluff Coal Co., Terre Haute . . .	Peerless*					
J. Ehrlich Coal Co., Seelyville	Seelyville	53	7	5	8	5,000
Grant Coal and Mining Co., Burnett . .	Grant	70	10	8	17	35,000

* Not in operation in September; assumed control September 1.

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR OCTOBER, 1893.

Coal Bluff Coal Co., Terre Haute . . .	Hercules	102	12	12	23	39,000
Coal Bluff Coal Co., Terre Haute . . .	Star	105	7	11	25	23,700
Coal Bluff Coal Co., Terre Haute . . .	Diamond	98	6	4	23	21,000
Coal Bluff Coal Co., Terre Haute . . .	Peerless	45	4	2	15	21,200
J. Ehrlich Coal Co., Seelyville	Seelyville	52	6	5	8	18,000
Grant Coal and Mining Co., Burnett . .	Grant	70	10	8	17	40,000

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR NOVEMBER, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
Coal Bluff Coal Co., Terre Haute . . .	Hercules	100	12	12	25	37,000
Coal Bluff Coal Co., Terre Haute . . .	Star	110	7	11	24½	24,000
Coal Bluff Coal Co., Terre Haute . . .	Diamond	104	6	4	19	20,700
Coal Bluff Coal Co., Terre Haute . . .	Peerless	85	4	3	11	21,000
J. Ehrlich Coal Co., Seelyville	Seelyville	58	8	5	24	19,000
Grant Coal and Mining Co., Burnett . .	Grant	80	12	11	27-	40,000

MONTHLY REPORT OF MINES IN VIGO COUNTY, IND., FOR DECEMBER, 1893.

Coal Bluff Coal Co., Terre Haute . . .	Hercules	104	12	12	24	38,700
Coal Bluff Coal Co., Terre Haute . . .	Star	110	7	11	23	24,200
Coal Bluff Coal Co., Terre Haute . . .	Diamond	97	6	4	20½	19,800
Coal Bluff Coal Co., Terre Haute . . .	Peerless	80	4	4	20	20,600
J. Ehrlich Coal Co., Seelyville	Seelyville	60	8	5	16	19,000
Grant Coal and Mining Co., Burnett . .	Grant	80	12	12	22½	40,000

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR JANUARY, 1893.

Brazil Block Coal Co., Brazil	Otter Creek	52	5	3	20	2,000
Brazil Block Coal Co., Brazil	Coxville No. 3	140	11	10	23	25,000
New Kentucky Coal Co., Clinton	No. 1	94	17	7	21½	20,000
New Kentucky Coal Co., Clinton	No. 2	24	10	1	25	19,800
Mecca Mining Co., Rockville	Mecca M'ng Co.	59	5	4	24	24,680
Parke County Coal Co., Rosedale	No. 6	103	30	13	25	35,740
Parke County Coal Co., Rosedale	No. 7	45	4	5	18	27,000
Parke County Coal Co., Rosedale	No. 8	40	6	3	25	21,000
Parke County Coal Co., Rosedale	No. 9	75	10	8	24½	25,600

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR FEBRUARY, 1893.

Brazil Block Coal Co., Brazil	Otter Creek	75	6	4	21	20,000
Brazil Block Coal Co., Brazil	Coxville No. 3	140	11	10	24	22,000
New Kentucky Coal Co., Clinton	No. 1	100	18	8	18½	20,000
New Kentucky Coal Co., Clinton	No. 2	23	11	1	24	19,800
Mecca Mining Co., Rockville	Mecca M'ng Co.	54	5	4	21	24,680
Parke County Coal Co., Rosedale	No. 6	107	21	13	24	35,740
Parke County Coal Co., Rosedale	No. 7	43	4	5	15½	25,800
Parke County Coal Co., Rosedale	No. 8	45	6	3	22	23,000
Parke County Coal Co., Rosedale	No. 9	80	10	9	21½	25,600

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR MARCH, 1893.

Brazil Block Coal Co., Brazil	Otter Creek	80	7	4	22	20,000
Brazil Block Coal Co., Brazil	Coxville No. 3	140	10	11	23	25,000
New Kentucky Coal Co., Clinton	No. 1	85	17	7	21	30,000
New Kentucky Coal Co., Clinton	No. 2	43	12	2	25	20,000
Mecca Mining Co., Rockville	Mecca M'ng Co.	63	5	5	17	24,680
Parke County Coal Co., Rosedale	No. 6	109	21	13	26½	34,900
Parke County Coal Co., Rosedale	No. 7	45	4	5	16½	27,000
Parke County Coal Co., Rosedale	No. 8	48	6	4	26	22,400
Parke County Coal Co., Rosedale	No. 9	85	10	9	22	25,300

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR APRIL, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
Brazil Block Coal Co., Brazil	Otter Creek	86	5	3	9	22,000
Brazil Block Coal Co., Brazil	Coxville No. 3	36	8	2	25	10,000
New Kentucky Coal Co., Clinton	No. 1	77	16	6	18	30,000
New Kentucky Coal Co., Clinton	No. 2	60	8	2	22½	30,000
Mecca Mining Co., Rockville	Mecca Min'g Co.	52	5	5	8	21,000
Parke County Coal Co., Rosedale	No. 6	112	21	15	22½	35,000
Parke County Coal Co., Rosedale	No. 7	47	4	5	8½	28,000
Parke County Coal Co., Rosedale	No. 8	50	7	6	23½	22,600
Parke County Coal Co., Rosedale	No. 9	37	10	9	22½	25,000

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR MAY, 1893.

Brazil Block Coal Co., Brazil	Otter Creek	90	5	4	17	20,000
Brazil Block Coal Co., Brazil	Coxville No. 3	45	11	3	11	10,000
New Kentucky Coal Co., Clinton	No. 1	72	14	6	25	30,000
New Kentucky Coal Co., Clinton	No. 2	52	10	3	24	40,000
Mecca Mining Co., Rockville	Mecca Mining Co	62	5	5	24	21,000
Parke County Coal Co., Rosedale	No. 6	110	21	15	15½	32,000
Parke County Coal Co., Rosedale	No. 7	48	8	5	11½	29,000
Parke County Coal Co., Rosedale	No. 8	53	7	6	15½	25,000
Parke County Coal Co., Rosedale	No. 9	95	10	9	14½	30,500

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR JUNE, 1893.

Brazil Block Coal Co., Brazil	Otter Creek	78	5	4	17	20,000
Brazil Block Coal Co., Brazil	Coxville No. 3	72	12	4	22	10,000
New Kentucky Coal Co., Clinton	No. 1	63	16	5	18	30,000
New Kentucky Coal Co., Clinton	No. 2	63	9	3	20	40,000
Mecca Mining Co., Rockville	Mecca Mining Co	74	6	6	25	21,000
Parke County Coal Co., Rosedale	No. 6	112	21	15	19½	33,000
Parke County Coal Co., Rosedale	No. 7	45	4	6	10½	30,400
Parke County Coal Co., Rosedale	No. 8	55	7	6	20½	28,800
Parke County Coal Co., Rosedale	No. 9	84	10	8	17½	27,800

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR JULY, 1893.

Brazil Block Coal Co., Brazil	Otter Creek	90	5	4	14	30,000
Brazil Block Coal Co., Brazil	Coxville No. 3	70	14	6	12	22,000
New Kentucky Coal Co., Clinton	No. 1	60	13	5	22	30,000
New Kentucky Coal Co., Clinton	No. 2	70	12	5	24	40,000
Mecca Mining Co., Rockville	Mecca Mining Co	65	6	6	16	20,000
Parke County Coal Co., Rosedale	No. 6	102	21	15	17½	31,000
Parke County Coal Co., Rosedale	No. 7	33	4	5	8	25,300
Parke County Coal Co., Rosedale	No. 8	52	7	6	18½	27,000
Parke County Coal Co., Rosedale	No. 9	75	10	8	14½	289,000

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR AUGUST, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
Brazil Block Coal Co., Brazil	Otter Creek	98	5	4	20	30,000
Brazil Block Coal Co., Brazil	Coxville No. 3	80	14	6	19	22,000
New Kentucky Coal Co., Clinton	No. 1	136	22	7	24½	30,000
New Kentucky Coal Co., Clinton	No. 2	148	18	5	27	40,000
Mecca Mining Co., Rockville	Mecca Mining Co	63	5	5	16	21,000
Parke County Coal Co., Rosedale	No. 6	165	21	15	12½	32,900
Parke County Coal Co., Rosedale	No. 7	27	4	4	10½	28,000
Parke County Coal Co., Rosedale	No. 8	56	7	7	18	28,000
Parke County Coal Co., Rosedale	No. 9	76	10	8	14½	29,000
Superior Block Coal Co., Brazil	Superior	76	12	1	23	9,000

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR SEPTEMBER, 1893.

B. B. Coal Co., Brazil	Otter Creek	115	5	4	18	30,000
B. B. Coal Co., Brazil	Coxville No. 3	85	14	6	19	22,000
New Kentucky Coal Co., Clinton	No. 1	78	21	5	22½	30,000
New Kentucky Coal Co., Clinton	No. 2	143	17	5	24	40,000
Mecca Mining Co., Rockville	Mecca M'ng Co	67	5	5	17	21,000
Parke County Coal Co., Rosedale	No. 6	108	21	15	15½	33,000
Parke County Coal Co., Rosedale	No. 7	28	4	4	15½	29,000
Parke County Coal Co., Rosedale	No. 8	53	7	7	18	27,000
Parke County Coal Co., Rosedale	No. 9	80	11	8	19½	30,000
Superior Coal Co., Brazil	Superior	125	5	3	25	18,000

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR OCTOBER, 1893.

B. B. Coal Co., Brazil	Otter Creek	102	7	3	14	18,600
B. B. Coal Co., Brazil	Coxville No. 3	105	14	8	20	34,900
New Kentucky Coal Co., Clinton	No. 1	98	13	6	19	30,000
New Kentucky Coal Co., Clinton	No. 2	116	10	5	18½	40,000
Mecca Mining Co., Rockville	Mecca M'ng Co	71	6	6	19	21,000
Parke County Coal Co., Rosedale	No. 6	115	22	15	23	33,000
Parke County Coal Co., Rosedale	No. 7	27	4	4	16½	27,000
Parke County Coal Co., Rosedale	No. 8	45	7	5	23½	25,000
Parke County Coal Co., Rosedale	No. 9	75	10	8	24	26,800
Superior Coal Co., Brazil	Superior	160	5	3	23	21,000
Crawford Coal Co., Brazil	No. 1	77	9	5	8	21,500

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR NOVEMBER, 1893.

B. B. Coal Co., Brazil	Otter Creek	111	7	5	4½	32,660
B. B. Coal Co., Brazil	Coxville, No. 3	105	15	3	15	35,000
New Kentucky Coal Co., Clinton	No. 1	137	13	8	21	30,000
New Kentucky Coal Co., Clinton	No. 2	65	8	4	7	21,000
Mecca Mining Co., Rockville	Mecca M'ng Co	78	6	7	21	21,000
Parke Coal Co., Rosedale	No. 6	108	21	15	14½	32,000
Parke Coal Co., Rosedale	No. 7	29	4	4	15½	26,400
Parke Coal Co., Rosedale	No. 8	53	7	5	13	26,000
Parke Coal Co., Rosedale	No. 9	80	10	9	9	28,300
Superior Coal Co., Brazil	Superior	200	6	4	17	28,000
Crawford Coal Co., Brazil	No. 1	109	8	3	25	28,000

MONTHLY REPORT OF MINES IN PARKE COUNTY, IND., FOR DECEMBER, 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	No. of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.
B. B. Coal Co., Brazil	Otter Creek	134	6	6		32,350
B. B. Coal Co., Brazil	Coxville, No. 3	105	16	10	19	30,000
New Kentucky Coal Co., Clinton	No. 1.	142	17	9	22	20,000
New Kentucky Coal Co., Clinton	No. 2*.					
Mecca Mining Co., Rockville	Mecca M'ng Co.	96	6	7	22	21,000
Parke Coal Co., Rosedale	No. 6.	110	22	16	144	31,400
Parke Coal Co., Rosedale	No. 7.	38	5	6	154	30,000
Parke Coal Co., Rosedale	No. 8.	56	7	6	163	27,300
Parke Coal Co., Rosedale	No. 9.	87	11	9	163	28,000
Superior Coal Co., Brazil	Superior	225	6	5	20	30,000
Crawford Coal Co., Brazil	No. 1.	141	8	3	16	22,500

*Not in operation during month.

MONTHLY REPORT OF MINES IN OWEN COUNTY, IND., FOR 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.	Amount of Money Invested in Improvements During Month.	Number of Tons of Screened Coal Produced.	Number of Tons of Mine Run Coal Produced.	Number of Tons of Slack Produced.	Number of Tons of Coal Manufactured Into Coke.	Number of Accidents.	Remarks.
Lancaster Block Coal Co., Clay City.	No. 3.	42	5	4	21			2,325		855			This report is for Jan., 1893.
J. F. Hyatt, Coal City.	E. C.	18		2	24	4,300		755		340			This report is for Jan., 1893.
Lancaster Coal Co., Clay City.	No. 3.	35		4	19			3,241		692			This report is for Feb., 1893.
J. F. Hyatt, Coal City.	E. C.	14		2	23	3,900		665		360			This report is for Feb., 1893.
Lancaster Coal Co., Clay City.	No. 3.	30		4	21			1,841		374			This report is for March, 1893.
J. F. Hyatt, Coal City.	E. C.	12		2	26	3,600		670		330			This report is for March, 1893.
Lancaster Coal Co., Clay City.	No. 3.	40		3	19			795		422			This report is for April, 1893.
Lancaster Coal Co., Clay City.	No. 3.	35		5	10			917		317			This report is for March, 1893.
Lancaster Coal Co., Clay City.	No. 3.	30		5	13			1,576		715			This report is for June, 1893.
Lancaster Coal Co., Clay City.	No. 3.	30		4	12			1,430		644			This report is for July, 1893.
Lancaster Coal Co., Clay City.	No. 3.	35		5	15			2,000		642			This report is for August, 1893.
Lancaster Coal Co., Clay City.	No. 3.	36		5	12			1,453		779			This report is for Sept., 1893.
Lancaster Coal Co., Clay City.	No. 3.	30		5	13			1,939		1,065			This report is for Oct., 1893.
Lancaster Coal Co., Clay City.	No. 3.	35		4	6			931		285			This report is for Nov., 1893.
Lancaster Coal Co., Clay City.	No. 3.	30		4	9			1,188		518			This report is for Dec., 1893.

MONTHLY REPORT OF MINES IN FOUNTAIN COUNTY, IND., FOR 1893.

NAME AND ADDRESS OF COMPANY.	NAME OF MINE.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used in Mine.	Number of Days Worked in Month.	Number Cubic Feet of Air Circulating in Mine per Minute.	Amount of Money Invested in Improvements During Month.	Number of Tons of Screened Coal Produced.	Number of Tons of Mine Run Coal Produced.	Number of Tons of Slack Produced.	Number of Tons of Coal Manufactured Into Coke.	Number of Accidents.	Remarks.
Shipman Coal Co., Cayuga	Shipman	44	7	4	20½	9,700	\$102 60	318	2,749	115	..	..	This report is for Jan., 1893.
Shipman Coal Co., Cayuga	Shipman	43	7	4	13½	9,800	..	307	1,373	110	..	..	This report is for Feb., 1893.
Shipman Coal Co., Cayuga	Shipman	46	4	4	23	9,300	12 74	96	3,542	50	..	..	This report is for March, 1893.
Shipman Coal Co., Cayuga	Shipman	42	6	4	13½	10,500	..	370	2,162	225	..	..	This report is for April, 1893.
Shipman Coal Co., Cayuga	Shipman	38	5	5	6½	10,800	494 00	51	950	20	..	..	This report is for May, 1893.
Shipman Coal Co., Cayuga	Shipman	48	8	5	10	10,000	..	251	2,092	165	..	..	This report is for June, 1893.
Shipman Coal Co., Cayuga	Shipman	51	9	5	14½	10,700	..	333	2,386	120	..	..	This report is for July, 1893.
Shipman Coal Co., Cayuga	Shipman	52	7	5	13	10,600	..	75	2,283	25	..	..	This report is for August, 1893.
Shipman Coal Co., Cayuga	Shipman	44	8	6	14½	10,700	..	100	2,662	33	..	..	This report is for Sept., 1893.
Shipman Coal Co., Cayuga	Shipman	44	8	6	15	18,500	..	440	2,849	190	..	..	This report is for Oct., 1893.
Shipman Coal Co., Cayuga	Shipman	47	8	6	13	17,000	..	80	2,408	30	..	..	This report is for Nov., 1893.
Shipman Coal Co., Cayuga	Shipman	..	..	..	..	..	550 00	..	..	..	..	..	Not in operation in Dec., 1893.

Table Showing Average Number of Persons Employed Inside Mines, also Average Number of Persons Employed Outside Mines, also Average Number of Mules Used in Respective Counties, Etc.

NAME OF COUNTY.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules Used.	Estimated Number of Men in Small Mines, to which the Law does not Apply.	Estimated Number Tons of Coal Produced Out of Small Mines.	Estimated Number of Small Mines to which the Law Does Not Apply.
Clay	2,454	229	165	30	9,000	5
Daviess	429	50	55	16	6,700	5
Fountain	45	7	5	10	3,000	3
Green	484	45	40	4	500	4
Gibson	30	10	3	3	500	1
Knox	41	10	4	5	500	2
Owen	33	25	4	5	1,250	4
Perry	64	9	10	24	9,600	9
Parke	715	98	59	6	1,500	4
Pike	259	66	33	17	2,000	9
Sullivan	585	101	53	8	900	8
Spencer	14	3	1	75	6,500	7
Vigo	509	54	38	50	15,000	8
Vermillion	312	38	27	6	1,000	5
Vanderburgh	255	54	31	4	800	3
Warrick	63	17	7	7	900	4
Dubois	.....	.....	.....	9	1,000	4
Martin	.....	.....	.....	4	800	3
Warren	.....	.....	.....	4	600	2
Total	6,392	816	535	222	47,250	86

REPORT OF MINES IN CLAY COUNTY FOR THE YEAR 1893.

MONTH.	Number of Mines Operated During Month.	Amount of Money Invested in Improvements.	Total Tons Screened Coal Produced.	Total Tons Mine Run Coal Produced.	Total Tons Slack Produced.
January	36	\$907 70	129,788	5,077	26,294
February	35	708 95	117,146	5,449	27,073
March	35	1,160 26	118,850	5,899	24,875
April	31	521 50	84,433	5,133	19,850
May	29	904 81	82,709	5,915	19,300
June	31	10,325 10	62,776	1,279	16,192
July	31	1,683 99	73,011	584	16,989
August	31	3,800 00	71,317	12,236	20,117
September	34	1,762 20	81,753	3,473	18,896
October	34	2,897 65	79,127	2,015	16,725
November	34	2,651 00	73,024	1,623	15,966
December	34	2,131 00	78,643	3,661	15,703
Total	.....	\$28,952 16	1,054,579	59,349	239,090

REPORT OF MINES IN GIBSON COUNTY FOR THE YEAR 1893.

August	1	\$20 00	.....	1,400	.....
September	1	.....	.....	1,800	.....
October	1	10 00	.....	2,000	.....
November	2	25 00	.....	2,150	.....
December	2	25 00	.....	3,031	.....
Total	.....	\$80 00	.....	10,381	.....

REPORT OF MINES IN GREENE COUNTY FOR THE YEAR 1893.

MONTH.	Number of Mines Operated During Month.	Amount Money Invested in Improvements.	Total Tons Screened Coal Produced.	Total Tons Mine Run Coal Produced.	Total Tons Slack Produced.
January	3		\$24,951	38,627	13,676
February	3		25,931	41,124	16,191
March	3		20,646	33,561	12,915
April	3		9,883	16,480	11,692
May	3		24,987	7,113	2,805
June	3		20,194	7,700	3,039
July	3		19,344	8,100	3,241
August	3		18,358	10,370	6,376
September	3		14,437	10,200	6,487
October	4		23,621	28,306	5,868
November	4		14,903	13,697	400
December	4		21,798	25,825	10,179
Total			\$239,035	243,103	92,869

REPORT OF MINES IN DAVIESS COUNTY FOR THE YEAR 1893.

January	7	\$175 00	13,635	15,686	4,231
February	7	225 00	10,086	15,334	3,505
March	7		7,913	17,296	2,660
April	7	50 00	5,333	16,929	1,007
May	7	25 00	4,548	10,492	724
June	7	25 00	9,080	7,580	1,695
July	7		8,715	1,475	1,520
August	7		8,257	7,510	1,100
September	7	200 00	14,401	6,145	3,848
October	8	700 00	14,744	7,579	3,330
November	8	415 00	14,502	6,814	3,353
December	8	1,025 00	14,015	7,774	53,601
Total		\$1,840 00	125,259	118,615	60,574

REPORT OF MINES IN SPENCER COUNTY FOR THE YEAR 1893.

January	1		262	465	90
February	1		306	330	96
March	1		264	369	80
April	1		75	437	20
May	1		8	434	
June	1		75	400	
July	1		8	48	
August	1		20	40	
September	1		50	85	
October	1		74	188	20
November	1		186	78	50
December	1		188	205	60
Total			1,516	3,079	416

MONTHLY REPORT OF MINES IN SULLIVAN COUNTY, IND., FOR 1893.

MONTH.	Number of Mines.	Amount of Money Invested in Improvements During Month.	Number Tons Screened Coal Produced.	Number Tons Mine Run Coal Produced.	Number Tons Slack Produced.	Number Tons Coal Manufactured into Coke.	Number Accidents.
January	9	\$110 79	22,288	8,885	4,964		
February	9	7 58	10,953	23,677	4,870		
March	9		30,361	14,569	8,745	1,175	
April	9		17,227	4,871	5,798	770	
May	9	280 43	15,054	9,004	4,358	785	
June	9	265 00	7,915	8,951	2,928		
July	9	243 50	8,064	10,132	2,735		
August	9	8 65	7,312	7,578	2,335		
September	10	3,605 97	17,442	10,235	2,611		
October	10	1,518 95	31,737	17,884	6,348	820	1
November	10	1,129 45	25,762	28,995	9,096	930	1
December	10		42,290	5,550	11,150	970	
Total		\$3,800 40	231,403	155,681	65,935	5,450	2

REPORT OF MINES IN PIKE COUNTY, IND., FOR THE YEAR 1893.

MONTH.	No. of Mines in Operation During Month.	Amount of Money Invested in Improvements.	Total Tons Screened Coal Produced.	Total Tons Mine Run Coal Produced.	Total Tons Slack Produced.	How Much Manufactured into Coke.
January	22		2,520	17,159	2,750	
February	22		2,316	17,250	2,123	
March	22		2,000	16,228	1,800	
April	22		2,217	18,907	1,000	
May	22		2,000	14,028	2,000	
June	22		1,700	10,012	1,000	
July	22		1,500	9,355	5,890	
August	22		1,200	11,020	1,650	
September	22		19,700	8,035	3,985	
October	22		2,023	17,931	2,568	
November	22		1,602	17,886	1,450	82
December	22		802	18,093	1,374	
Total			39,580	178,004	27,590	82

REPORT OF MINES IN PARKE COUNTY, IND., FOR THE YEAR 1893.

January			34,455	8,877	1,070
February			34,128	9,914	10,459
March			37,427	12,359	10,754
April			26,394	9,137	8,166
May			19,742	10,722	6,147
June			28,950	9,252	9,635
July		\$618 00	22,769	11,765	6,659
August		1,200 00	28,088	18,451	7,587
September		830 00	19,422	16,763	10,686
October		1,000 00	41,057	7,108	11,039
November		500 00	41,984		19,265
December		500 00	43,383		17,079
Total		\$4,648 00	378,099	114,828	118,517

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REPORT OF MINES IN PERRY COUNTY, IND., FOR THE YEAR 1893.

MONTHS.	Number of Mines.	Amount of Money Invested in Improvements.	Total Tons Screened Coal Produced.	Total Tons Mine Run Coal Produced.	Total Tons of Slack Produced.
January	2		871	1,674	208
February	2		602	2,652	204
March	2		482	2,170	179
April	2		510	2,539	183
May	2		1,200	1,100	90
June	2		970	1,200	300
July	2		1,120	900	200
August	2		400	1,430	150
September	2		500	1,485	175
October	2		449	1,589	171
November	2		553	2,093	201
December	2		605	2,287	204
Total			8,262	20,910	2,187

REPORT OF MINES IN VIGO COUNTY, IND., FOR THE YEAR 1893.

January		\$300 00	23,269	8,648	11,590
February		500 00	23,089	8,317	9,753
March		500 00	24,898	11,167	9,465
April		1,000 00	20,048	4,825	10,260
May			9,908	575	4,030
June			22,478	1,042	8,460
July		500 00	18,536	1,130	7,485
August		3,150 00	15,691	1,572	4,684
September		4,081 00	18,513	1,459	6,620
October		899 00	22,307	2,480	7,554
November		8,861 00	23,767	1,491	11,620
December		650 00	24,361	393	12,090
Total		\$20,631 00	247,066	43,119	103,581

REPORT OF MINES IN VERMILLION COUNTY, IND., FOR THE YEAR 1893.

MONTH.	Number of Mines Operated During Month.	Number of Persons Employed Inside.	Number of Persons Employed Outside.	Number of Mules or Horses Used.	Number of Days Worked.	Amount of Money Invested in Improvements.	Total Tons Screened Coal Produced.	Total Tons Mine Run Coal Produced.	Total Tons Slack Produced.
January	4	288	26	23	95	\$1,325 00	20,637	1,820	7,450
February	4	263	37	23	72	515 00	16,962	1,666	5,370
March						1,000 00	13,925	1,563	4,914
April						325 00	12,116	4,175	2,965
May							12,031	1,745	3,851
June							8,328		2,890
July							12,100	852	3,555
August						9,146	9,146	1,445	3,640
September						14,753	14,753	1,823	3,856
October						20,327	20,327	1,750	7,015
November						682 50	21,800		7,423
December						10 50	22,762	2,400	8,141
Total						\$4,898 50	184,977	19,239	60,790

REPORT OF MINES IN VANDERBURG COUNTY, IND., FOR THE YEAR 1893.

MONTHS.	Number of Mines.	Amount of Money Invested in Improvements.	Total Tons Screened Coal Produced.	Total Tons Mine Run Coal Produced.	Total Tons of Slack Produced.
January	5	\$1,550 00	11,686	8,414	2,721
February	5	500 00	8,603	7,086	2,039
March	5	150 00	38,623	6,370	5,384
April	5	125 00	4,795	6,459	5,083
May	5	125 00	4,886	6,196	4,695
June	5	125 00	4,630	6,296	9,180
July	5	.....	4,320	7,850	1,330
August	5	.....	6,304	10,676	1,618
September	5	.....	5,512	15,305	1,930
October	5	6,000 00	7,182	4,593	2,341
November	5	240 00	8,724	8,501	3,505
December	6	.....	9,624	10,161	2,175
Total . . . . .	.....	\$6,815 00	114,689	97,857	41,491

REPORT OF MINES IN WARRICK COUNTY, IND., FOR THE YEAR 1893.

January	3	.....	1,285	7,404	260
February	3	.....	709	5,131	422
March	3	\$193 00	368	5,443	109
April	3	.....	300	3,559	100
May	3	50 00	1,640	1,352	64
June	3	.....	2,160	300	50
July	3	.....	1,910	200	26
August	3	.....	1,610	1,445	180
September	3	.....	2,220	1,525	262
October	3	75 00	334	7,218	310
November	3	.....	608	7,789	350
December	3	.....	832	6,468	80
Total . . . . .	.....	\$318 00	13,976	47,834	2,198

REPORT OF MINES IN KNOX COUNTY, IND., FOR THE YEAR 1893.

January	2	\$71 24	2,378	30	1,533
February	2	57 10	2,216	131	1,482
March	2	.....	1,133	25	188
April	2	211 36	875	48	583
May	2	520 00	1,018	99	640
June	2	.....	1,030	70	650
July	2	46 22	900	55	430
August	2	.....	655	230	381
September	2	.....	830	355	475
October	2	.....	2,198	152	1,370
November	2	.....	1,616	50	1,040
December	2	.....	1,859	65	1,149
Total . . . . .	.....	\$905 92	16,505	1,290	9,881

Table Showing Number of Mines; Also Amount of Money Invested in Mine Improvements; Also Number of Tons of Screened Coal, Mine Run Coal and Slack, as Shown by Monthly Reports for Year 1898.

NAME OF COUNTY.	Number of Mine.	Amount of Money Invested in Im- provements.	Number of Tons of Screened Coal.	Number of Tons of Mine Run Coal.	Number of Tons of Slack Coal.	Total Tons of All Grades of Coal.
Clay.	34	\$28,952 16	1,054,579	59,349	239,090	1,353,018
Daviess.	8	1,841 00	125,259	118,615	60,574	404,448
Fountain.	1	1,159 34	2,421	25,455	10,025	37,901
Green.	4		239,035	243,103	92,869	575,007
Gibson.	2	80 00		10,381		10,381
Knox.	2	905 92	16,505	1,290	9,881	27,676
Owen.	1		21,774		8,278	30,052
Perry.	2		8,262	20,910	2,137	31,309
Parke.	11	4,648 00	78,099	114,828	118,517	311,444
Pike.	2		39,580	178,004	27,590	245,174
Sullivan.	10	3,800 40	231,203	155,681	5,450	392,334
Spencer.	1		1,516	3,079	416	5,011
Vigo.	6	20,431 00	247,066	43,119	103,581	393,766
Vermillien.	4	5,097 90	187,086	* 18,402	58,593	264,081
Vanderburgh.	6	8,815 00	146,689	77,957	41,491	266,037
Warrick.	3	318 00	13,976	47,834	2,198	64,008
Total.	97	\$76,058 66	2,413,050	1,117,907	780,690	4,311,647

REPORT OF ASSISTANT MINE INSPECTOR.

To the Hon. Thomas McQuade:

I respectfully submit my third annual report for fractional part of calendar year ending October 10, 1893.

Respectfully,

WELMAN LACKEY.

KNOX COUNTY.

BICKNELL MINE.

Operated by the Bicknell Coal Co., located at Bicknell, on I. & V. R. R. Inspected once and found to be in good condition, almost every feature of the law being complied with.

VINCENNES MINE.

Operated by the Vincennes Coal Co., located one-half mile east of Vincennes. This mine was abandoned on account of being unprofitable, the machinery being removed to Dugger, Sullivan County, Ind.

PROSPECT HILL MINE.

Operated by Frank Clark, located at Vincennes. It was inspected July 26. Less than ten men were employed in the mine. The ventilation was bad, the airways being partially closed on account of heaving of fire-clay.

WARRICK COUNTY.

LANDER MINE.

Operated by the Lander-Woolley Coal Co., located one mile east of Boonville, on branch of Air Line R. R. Machines are used for mining coal in this mine. It was inspected August 3, and found in good condition.

GOUGH MINE.

Operated by Robert Gough, located one-half mile east of Boonville, on branch of Air Line R. R. It was inspected August 3. Less than ten men are employed in this mine.

STAR MINE.

Operated by John Archbold. Located at Newburgh, on the Ohio River. It was lying idle on account of repairs, on August 7; when visited.

CHANDLER MINE.

Located at Chandler, on the Boonevill Branch of the Air Line R. R. Operated by Clemment & Co., successors to Hall & Bruce. This mine was not inspected, as it was lying idle for repairs at the time of my visit.

VANDERBURGH COUNTY.

INGLESIDES MINES.

Located at Evansville, on the Ohio River. Operated by John Ingle & Co. This mine was inspected on August 4. The ventilation was good. This mine is the oldest mine in the State. The excavation is very large. An endless rope is used for drawing coal in main entry, a distance of thirteen hundred yards. Other improvements are being made by putting new engines in, repairing tippel and hoisting shaft.

COÖPERATIVE MINE.

Located one mile east of Evansville. Operated by the Evansville Coal Co., successors to the Evansville Coöperative Coal Co. It was inspected August 5 and found in bad condition. The ventilation was bad on account of the fan box not being properly closed, the law being violated in several instances. Notice was given the mining boss, Frank Lockhart, to make needed repairs.

SUNNYSIDE MINE.

Located at Evansville. Operated by the Sunnyside Coal and Coke Company. It was inspected on August 6. The ventilation of the mine was generally good. They had not complied with the law in regard to a second outlet or man-way, for the violation of which I had entered suit. The case is still pending in Vanderburgh Circuit Court.

SUNNYSIDE MINE NO. 2.

Located just west of Evansville. Operated by the Sunnyside Coal and Coke Co. This mine was not inspected on account of its being idle at the time of my visit on August 5.

DIAMOND MINE.

Located northwest of Evansville. Operated by the Diamond Coal Mining Co. This mine was flooded with water at the time of my visit, and was not inspected.

FIRST AVENUE MINE.

Located northeast of Evansville. Operated by the First Avenue Coal Mining Co. This mine was inspected on August 7. The mine was not in very good condition. This company is very indifferent in regard to complying with the law; consequently they have been prosecuted and fined for violating mining laws. However, some improvements have been made since my last visit.

GIBSON COUNTY.

FRISCO MINE.

Located at Francisco, on the Airline Railroad, six miles east of Princeton, operated by Robert Lander, successor to A. E. Powell. It was inspected on August 1. It had just been started, after lying idle for six months, and was in bad condition. Another visit was made in September, when I found the mine in very good condition.

SPENCER COUNTY.

LINCOLN MINE.

Located one mile from Lincoln City, on the Cannelton branch of the Airline Railroad. Owned by Henry Schaefer. This mine is operated principally for fire-clay, the coal being very low. Was not inspected on my last visit, as the mine was flooded with water.

GREENE COUNTY.

FLUEHART MINE.

Located one mile southwest of Linton, on the Greene County coal branch of the Indianapolis & Vincennes Railroad. Operated by the Linton Coal and Mining Co. It was inspected April 14, and found in bad condition. It was visited again in a short time and found in generally good condition.

ISLAND MINE No. 2.

Located one-half mile west of Linton. Operated by the Island Coal Company. This mine was inspected on January 26. The mine was in very good condition, with the exception of the ventilation, which was bad, on account of break-throughs being left open. This violation was prosecuted in Squire G. W. Ellis' court in Linton. The case was veni- nired to Squire Wakefield's court at Switz City. The law was held in- sufficient to hold prisoner, and an appeal was taken to the Circuit Court. The case is still pending.

SUMMIT MINE.

Located one-half mile west of Linton, on a branch of the I. & V. and I. & I. S. R. R's. Operated by the Summit Coal Co. This mine was inspected January 2, and found in good condition, excepting break- throughs, which were not bratticed as required by law. Consequently I prosecuted them in four cases in 'Squire Ellis' court. They were con- victed, and fined ten dollars in each case.

PIKE COUNTY.

AYRSHIRE MINE.

Located five miles east of Oakland City, on the Air Line R. R. Owned by David Ingle. It was inspected on August 2, and found to be in good condition. This is a shaft just east of the old slope, and part of the workings are those worked by the old slope. Eighty miners, twenty- five day-men and fourteen mules are employed inside. Coal is found at a depth of 22 feet, and of fine quality. Some men are still employed in the old slope for the purpose of coaling railroad engines.

BLACKBURN MINE.

Located at Blackburn, on the E. & I. R. R. This mine is now owned by S. W. Little. It was lying idle for repairs, at the time of my visit.

LITTLE'S MINE.

Located six miles southeast of Petersburg, on the E. & I. R. R. This mine was inspected July 31, and found in good condition.

PERRY COUNTY.

TROY MINE.

Located at Troy, owned by Bergenroth Bros., was inspected once and found in good condition.

CANNELTON MINE.

Located two miles east of Cannelton. Operated by the American Cannel Coal Co. It was lying idle for repairs at the time of my visit.

DAVIESS COUNTY.

MUTUAL MINE.

Owned by the Mutual Mining Co., located one mile south of Cannelburgh. This mine was inspected July 27, and found to be in good condition. A new cage had been put in since my last visit.

WILSON MINE.

Located near Montgomery on the O. & M. Railroad. Owned by the Wilson Coal Company. Two visits were made to this mine. On my first visit found the air very bad, but on my second visit found the mine in generally good condition.

WILSON MINE NO. 2.

Owned by Wilson & Sons. Located three miles west of Washington on the E. & I. Railroad. The roof is bad on account of water percolating through. In other respects the condition of the mine was good on July 28, the time of my visit.

MAPLE VALLEY MINE..

Owned by Cable & Co. Located two miles and one-half southwest of Washington. When last visited it was found to be in good working condition. All the men employed were working on pillars.

MINE No. 4.

Owned by Cable & Co.; located two miles south of Washington. This mine was inspected July 28, and found in good working condition.

MINE No. 7.

Owned by Cable & Co.; located one and one-half miles west of Washington. This mine was inspected July 28, and found in good condition.

MINE No. 9.

Owned by Cable & Co.; located two and one-half miles southwest of Washington. This mine was in good working condition when last inspected. This is part of the Maple Valley mine, the shaft being sunk in the north works. Experienced some trouble with this company in regard to delivering timber. I made a special visit on this account, after which the timber was delivered, as requested by me.

MURREY AND BAILEY MINE.

Operated by Sam. Rogers. Located six miles southwest of Washington on the E. & I. R. R. This mine was not inspected, as they were idle at time of my visit.

SULLIVAN COUNTY.

DUGGER MINE.

Operated by the Dugger & Neal Coal Co., located at Dugger, on the I. & I. S. R. R. and I. & V. Coal Branch. Was inspected January 4. The ventilation was found to be bad on account of breakthroughs being left open. For this offense I entered suit in 'Squire Lusader's court at Sullivan. A later visit was made, when I found the breakthroughs closed and the air generally good.

JUMBO MINE.

Operated by the Jackson Hill Coal and Coke Company, located at Hartersville, on branch of E. & T. H. R. R. This mine was inspected June 24. I found the ventilation bad on account of the main airway being closed by a fall of slate, which I ordered removed. I returned again in a short time and found the mine in good condition generally.

ALUM CAVE MINE.

Operated by the New Pittsburgh Coal and Coke Co., located at Alum Cave, on branch of the E. & T. H. R. R. It was inspected July 11, and found in good working condition.

OLD PITTSBURGH MINE.

Owned by the Old Pittsburgh Coal Co. Located at Hymera, on a branch of the E. & T. H. R. R. It was inspected January 21. The mine was in very good condition, with the exception that the air in some parts of the mine was bad, on account of the break throughs being left open, which they at once remedied. Coal is mined by machines. Power used, electricity.

STARK MINE.

Operated by Milton Stark & Son. Located at Hymera. This mine was inspected January 31. The condition of the mine was good, excepting there was no manway around the bottom of the shaft. For this offense they were fined, after which they complied with the law.

HANCOCK MINE.

Operated by Hancock & Conkel. Located at Farnsworth, on the I. & I. S. R. R. Five miles east of Sullivan. It was inspected January 24 and found in good working condition.

CURRYVILLE MINE.

Operated by the Curryville Coal and Coke Company, located one-half mile north of Shelburn on the E. & T. H. Railroad. It was inspected July 13. The ventilation was good. There were no safety catches on the cages, but they were making the needed repairs at the time of my visit.

SHELburn MINE.

Operated by the Shelburn Coal Company, located at Shelburn on the E. & T. H. Railroad. It was inspected July 13. The ventilation was generally good. The air was moving a little slow in some parts of the mine, the volume of air being 10,100 cubic feet per minute. No gas was discovered in any part of the mine at the time of my visit.

A special visit was made on September 6 on account of a gas explosion which occurred on September 5, in which eleven men were injured, the injuries proving fatal to three.

SUPERIOR MINE.

Operated by the Island Coal Co., located one mile and a half west of Dugger, on a branch of the I. & V. R. R. This mine was abandoned about the first of June on account of the tipple being burned.

LYONTON MINE.

Operated by Magill & Raines, located at Lyonton, two miles west of Dugger. It was inspected on February 20. Some parts of the mine were in bad condition on account of the air-ways being closed. The men in two entries went out until they could be put in fit condition to work. I made another visit in a short time and found the men all at work, and the air good.

BRIAR HILL MINE.

Located just north of Dugger, operated by the Dugger Coöperative Coal Co. This is a new mine, and is yet being worked on a small scale.

ACCIDENTS—FATAL.

Oliver C. Blevens, killed by shot of coal on May 26, 1893, in Alum-Cave mine, in Sullivan County. Operated by the New Pittsburgh Coal and Coke Co.

Willis Powell, killed by fall of slate, in Jumbo mine, operated by the Jackson Hill Coal and Coke Co., on June 17, in Sullivan County.

Michael Haney, killed by shot of coal on July 21, 1893, in Frisco Mine, operated by Robert Lander, in Gibson County.

Pid or Gallant Hays, died on September 9, 1893, from injuries received from gas explosion in Shelburn Mine, on September 5, 1893, operated by the Shelburn Coal Co., in Sullivan County.

Simpson Elwick, died September 11, 1893, from injuries received in gas explosion in Shelburn Mine, on September 5, 1893, operated by Shelburn Coal Co., in Sullivan County.

Henry Hodges, died from injuries received in gas explosion in Shelburn Mine, on September 5, 1893, operated by the Shelburn Coal Co., in Sullivan County.

ACCIDENTS—NON-FATAL.

George Yates, Levi Bardsley, George Brown, Ransom Kempt, Thomas Mills and Albert Norton were injured by a gas explosion which occurred in Shelburn Mine on September 5, 1893, operated by Shelburn Coal Co., in Sullivan County.

George Farris, hand broken by fall of slate January 18, 1893, in Sunnyside Mine, operated by Sunnyside Coal and Coke Co., in Vanderburgh County.

Henry O'Loughlin, collar bone broken by being caught between car and cross timber while driving on February 24, 1893, in First Avenue Mine, operated by First Avenue Coal Mining Co., in Vanderburgh County.

Alvin Dudley, ribs broken by falling coal on March 7, 1893, in Lyon-ton Mine, operated by Magill & Raines, in Sullivan County.

Table Giving Name of Mine, Also Kind of Mine, Power Used, Kind of Coal, Thickness of Vein, Depth From Surface and How Ventilated.

MINES IN DAVIESS COUNTY.

NAME OF MINE.	Kind of Mine.	Power Used.	KIND OF COAL.	Seam Worked.	Coal, Thickness.	Depth from Surface.	How Ventilated.
Maple Valley	Shaft.	Steam.	Bituminous	L	Ft. In.	Ft.	Fan.
No. 4	Shaft.	Steam.	Bituminous	L	5	74	Fan.
No. 7	Shaft.	Steam.	Bituminous	L	4	49	Fan.
No. 9	Shaft.	Steam.	Bituminous	L	7	66	Fan.
Wilson No. 1	Shaft.	Steam.	Bituminous	L	5	86	Fan.
Wilson No. 2	Shaft.	Steam.	Bituminous	M	3	100	Fan.
Murray	Shaft.	Steam.	Cannel and bitum's	I	5	100	Fan.
			Bituminous	K	6	50	Fan.

MINES IN GREEN COUNTY.

NAME OF MINE.	Kind of Mine.	Power Used.	KIND OF COAL.	Seam Worked.	Coal, Thickness.	Depth from Surface.	How Ventilated.
Island No. 2	Shaft.	Steam.	Bituminous	L.	Ft. In.	Ft.	Fan.
Summit	Shaft.	Steam.	Bituminous	L.	5	70	Fan.
Fluehart	Shaft.	Steam.	Bituminous	L.	5 6	76	Fan.
			Bituminous	L.	5	72	Fan.

MINES IN PIKE COUNTY.

NAME OF MINE.	Kind of Mine.	Power Used.	KIND OF COAL.	Seam Worked.	Coal, Thickness.	Depth from Surface.	How Ventilated.
Ayrshire	Shaft.	Steam.	Bituminous	K.	Ft. In.	Ft.	Fan.
Blackburn	Slope.	Steam.	Bituminous	K.	5	30	Furnace.
Littles	Shaft.	Steam.	Bituminous	K.	7	80	Fan.
			Bituminous	K.	7	89	Fan.

MINES IN KNOX COUNTY.

NAME OF MINE.	Kind of Mine.	Power Used.	KIND OF COAL.	Seam Worked.	Coal, Thickness.	Depth from Surface.	How Ventilated.
Bicknell	Shaft.	Steam.	Bituminous	K	Ft. In.	Ft.	Fan.
Prospect Hill	Shaft.	Steam.	Bituminous	M	4	98	Fan.
			Bituminous	M	3	340	Fan.

MINES IN GIBSON COUNTY.

NAME OF MINE.	Kind of Mine.	Power Used.	KIND OF COAL.	Seam Worked.	Coal, Thickness.	Depth from Surface.	How Ventilated.
Frisco	Shaft.	Steam.	Bituminous	K	Ft. In.	Ft.	Fan.
			Bituminous	K	4	130	Fan.

MINES IN PERRY COUNTY.

NAME OF MINE.	Kind of Mine.	Power Used.	KIND OF COAL.	Seam Worked.	Coal, Thickness.	Depth from Surface.	How Ventilated.
Troy	Shaft.	Steam.	Bituminous	G	Ft. In.	Ft.	Furnace.
Cannelton	Dritt.	Horse.	Semi-block	F	3	80	Furnace.
			Bituminous	F	3	150	Furnace.

MINES IN VANDERBURGH COUNTY.

NAME OF MINE.	Kind of Mine.	Power Used.	KIND OF COAL.	Seam Worked.	Coal, Thickness.	Depth from Surface.	How Ventilated.
Engleside	Shaft.	Steam.	Bituminous	K	Ft. In.	Ft.	Fan.
Sunnyside	Shaft.	Steam.	Bituminous	K	4	265	Fan.
Sunnyside, No. 2	Shaft.	Steam.	Bituminous	K	4	265	Fan.
First Avenue	Shaft.	Steam.	Bituminous	K	4	257	Fan.
Diamond	Shaft.	Steam.	Bituminous	K	4	260	Fan.
Coöperative	Shaft.	Steam.	Bituminous	K	4	260	Fan.
					4	255	Fan.

MINES IN WARRICK COUNTY.

					Ft. In.	Ft.	
Lawder	Slope.	Steam.	Bituminous	K	7	30	Fan.
Gough	Shaft.	Steam.	Bituminous	K	7	50	Furnace.
Chandler	Shaft.	Steam.	Bituminous	K	4	128	Furnace.
Star	Shaft.	Steam.	Bituminous	K	3 6	50	Fan.

MINES IN SULLIVAN COUNTY.

					Ft. In.	Ft.	
Curryville	Shaft.	Steam.	Bituminous	L.	5	248	Fan.
Shelburn	Shaft.	Steam.	Bituminous	L.	5	248	Fan.
Hancock	Shaft.	Steam.	Bituminous	L.	5	70	Fan.
Lynton	Shaft.	Steam.	Bituminous	L.	5	50	Fan.
Dugger	Shaft.	Steam.	Bituminous	L.	5	100	Fan.
Alum Cave	Shaft.	Steam.	Bituminous	K.	6 6	40	Fan-Fur.
Old Pittsburgh	Shaft.	Steam.	Bituminous	L.	5	50	Fan.
Stark	Shaft.	Horse.	Bituminous	L.	5	40	Furnace.
Jumbo	Shaft.	Steam.	Bituminous	L.	5	30	Fan.
Briar Hill	Shaft.	Steam.	Bituminous	L.	5	100	Fan.

MINES IN SPENCER COUNTY.

					Ft. In.	Ft.	
Lincoln	Shaft.	Steam.	Bituminous	G.	3	23	Furnace.

REPORT OF ASSISTANT MINE INSPECTOR.

MR. THOS. MCQUADE, Brazil, Indiana,

Inspector of Mines, State of Indiana:

SIR—In conformity with section 5 of the Revised Statutes of the State of Indiana, defining the duties of the State Inspector of Mines, I herewith submit my report for the fourth quarter of the year ending December 31, 1893, and for the time I was filling said office in the year 1893.

Respectfully,

M. COMMESKY,

Assistant Inspector of Mines for the State of Indiana.

PERRY COUNTY.

CANNELTON MINES.

Owned by the American Cannel Coal Company, of Cannelton, Ind. The mine is located three miles northeast of the city of Cannelton, and is operated by drift. The coal is from two to four feet in thickness and of a good quality. This mine was inspected on October 23, 1893, and found in good condition.

TROY MINE.

Owned and operated by Burgenroth Bros., of Troy, Ind. The mine is located one-half mile east of Troy, and is operated by shaft. The mine was inspected on October 24, 1893. The ventilation in some parts of the mine was found to be bad, owing to no fire in the furnace. I had the promise of the mine foreman that the furnace would be put in order at once and the same would not be neglected hereafter.

SPENCER COUNTY.

LINCOLN CITY MINE.

Owned and operated by Henry Schafer, of Lincoln City, Ind. The mine was not inspected, as I found they were only working six men, therefore not coming under the mining law.

WARRICK COUNTY.

STAR MINE.

Operated by John Archibald, of Newburg, Ind. The mine is operated by shaft one hundred feet in depth. The coal is four feet in thickness. This mine, when inspected, was found in good condition, as to ventilation, but I found no stairway in the second outlet. I requested that a stairway be put in, and the company agreed to comply with my request.

CHANDLER MINE.

Operated by Clement Vogt Coal Company, of Chandler. The mine is operated by a shaft, one hundred and ten feet in depth, the thickness of the coal is four and one-half feet. When inspected the condition of this mine was good.

DE FOREST MINE.

Operated by Thomas Hall & Co., of De Forest, Ind. This mine was not in operation, therefore I can not say what condition the mine was in at that time.

LAWDER MINE.

Owned and operated by the R. Lawder & Woolly Coal Mining Co., of Boonville, Ind. The mine was not in operation when visited.

GOUGH MINE.

Owned and operated by R. Gough, Boonville, Ind. This mine was working less than ten men, therefore was not inspected.

VANDERBURGH COUNTY.

INGLESIDE MINE.

Owned and operated by John Ingle & Co., Evansville, Ind. This mine took fire on the 27th of September, in the bottom timbers. No one was injured, but eleven mules were suffocated by the fire. The damages were reported at \$4,000. The mine was not in operation, therefore was not inspected.

CO-OPERATIVE MINE.

Owned and operated by the Evansville Coal and Mining Company, of Evansville, Ind. This mine is operated by a shaft 232 feet in depth. The coal is four feet in thickness. This mine was inspected on the 20th of October, and I found it in bad condition. I called the attention of the management to what was necessary to put the mine in compliance with the law, and the company made the changes that were necessary.

VANDERBURGH COUNTY.

SUNNYSIDE MINE.

Operated by the Sunnyside Coal and Coke Co., of Evansville, Ind. This mine is operated by a shaft 260 feet in depth. The coal is 4 feet in thickness. The coal in this mine is mined by machines. This mine was inspected on the 25th of October, and found in fair condition.

UNITY MINE.

Operated by the Sunnyside Coal and Coke Co., of Evansville, Ind. This mine was not inspected, owing to the fact that they were operating with less than ten persons at that time.

FIRST AVENUE MINE.

Operated by C. Thomas. This mine is operated by a shaft 265 feet in depth. The coal is 4 feet in thickness. The mine was inspected October 21, and found in fair condition, but I found the company was not complying with the law in regard to the stairway in the second outlet. I asked that a stairway be placed in the outlet at once.

DIAMOND MINE.

Operated by the Diamond Coal and Mining Co., of Evansville, Ind. This mine is operated by a shaft 240 feet in depth. The coal is 4 feet in thickness. It was inspected October 21, and found in good condition below, but I found no stairway in the second outlet, which I ordered put in. I also found they were not using the lawful signals for hoisting and lowering the cages in the mine. This I asked to be changed to the right signal.

PIKE COUNTY.

AYRSHIRE MINE.

Owned and operated by D. Ingle, Oakland City, Ind. This mine is located at Ayrshire, Pike County, six miles east of Oakland City, on the Air Line Railroad. It was inspected on the 21st of November. The condition of the mine was good. This is a new mine, with all the latest improved machinery to handle coal on top with.

LITTLE'S MINE.

Owned by S. W. Little, at Little Station, Pike County. This mine is on the Evansville & Indianapolis Railroad. It was inspected on the 22d of November. I found it in good condition. The mine is operated by a shaft 86 feet in depth. The coal is 6 and 7 feet in thickness.

POSEY MINE

Operated by the Posey Co-operative Coal Co. It was not in operation when visited, and has since been sold to S. W. Little, of Blackburn, Pike County.

GIBSON COUNTY.

FRANCISCO MINE.

Operated by R. Lawder, of Francisco, Ind. This mine is operated by a shaft 128 feet in depth. The coal is 4 feet in thickness. The condition of mine when inspected was good. The company had put down the second shaft, but it was not complete as to stairways.

KNOX COUNTY.

PROSPECT HILL MINE.

Operated by F. Clark, of Vincennes, Ind. It was inspected on the 27th of November, and found in bad condition. Many changes were ordered made to place the mine in compliance with the law. This is the deepest shaft in the State. The coal is three feet in thickness.

BICKNELL MINE

Operated by the Bicknell Coal and Mining Co., of Bicknell, Ind. This mine is operated by a shaft 92 feet in depth. It was not in operation when I was there to inspect it.

DAVIESS COUNTY.

WILSON MINE.

Owned and operated by John Wilson & Sons, of Washington, Ind. This mine is located one-half mile northwest of Washington and is operated by a shaft. The coal is six feet in thickness and of excellent quality.

CABLE MINE NO. 7.

Owned by Cable & Co., of Washington, Ind. Mine No. 7 is operated by a shaft sixty-two feet in depth. The thickness of the coal is six and one-half feet. This mine is about worked out.

CABLE MINE NO. 4.

Owned by Cable & Co.

CABLE MINE NO. 9.

Owned by Cable & Co., and is operated by a shaft. This is the largest mine now in operation in Daviess County. When inspected they were working sixty-six persons and six mules.

MAPLE VALLEY MINES.

Owned by Cable & Company. This mine is located two miles southwest of Washington. When inspected it was found in parts very warm. Some changes were ordered made to better ventilate the mine.

MONTGOMERY MINE.

Operated by the Wilson Coal Company of Montgomery, Ind. This mine is operated by a shaft. The coal is four feet in thickness.

MUTUAL MINE.

Operated by the Mutual Mining Company, of Cannelburg, Ind. This mine is operated by a shaft. The coal mined in this mine is cannel and bituminous cannel, three and three and one-half feet in thickness. The bituminous is one and one-half feet in thickness.

WHITE RIVER VALLEY MINE.

Owned by S. Rogers, of Washington, Ind. This mine has not been in operation for some time.

GREENE COUNTY.

ISLAND MINE No. 2.

Owned by the Island Coal Company, at Linton, Ind. Island Mine No. 2 is one of the largest mines in the State. It is a machine mine, equipped with all the latest improved machinery for mining and handling coal. The Harrison machine is used in the mine. The coal is excellent steam and domestic coal. The mine is operated by a shaft ninety-five feet in depth. The coal is five feet in thickness.

SUMMIT MINE.

Located one and one-half miles west of Linton, Ind., and owned by the Summit Coal and Mining Company, of Dugger, Ind. This mine was inspected November 7. As the doors conducting the air were in bad condition, I ordered the management to repair them, which was done at once.

BUCKEYE MINE.

Operated by the Linton Coal and Mining Company, of Linton., Ind. This mine is located southwest of Linton, and is operated by a shaft. The coal is five feet in thickness, of a good quality for steam or domestic purposes.

ISLAND VALLEY MINE.

Operated by the Island Valley Coal Company, of Linton, Ind. This mine is located two miles southeast of Linton, on the branch of the I. & V. R. R. The mine is very complete, and produces an excellent quality of coal for steam and domestic use. This mine is operated by a shaft.

SULLIVAN COUNTY.

DUGGER MINE.

Operated by the Dugger and Neal Coal Company, of Dugger, Ind. This mine is operated by a shaft. The worked coal is five feet in thickness. When inspected one hundred and forty-two men were at work.

DUGGER CO-OPERATIVE MINE.

Operated by the J. Freeman Coal and Mining Company, of Dugger, Ind. This is a new mine and is operated by a shaft.

LYONTON MINE.

Operated by the Lyonton Coal Company, of Lyonton, Ind. This mine is worked on a small scale. It was inspected on December 13. This mine is operated by a shaft forty-five feet in depth. The coal is five feet in thickness.

SULLIVAN COUNTY.

BUNKER HILL MINE.

Operated by Hancock & Conkle, of Farnsworth, Ind. Bunker Hill Mine is operated by shaft, seventy-two feet in depth. The coal mined is four feet in thickness. Lately the mine has been repaired, and is now in good condition.

SHELburn MINE.

Operated by the Shelburn Coal Company, of Shelburn, Ind. The mine is operated by shaft, two hundred and forty feet in depth. The coal is five and one-half feet in thickness.

CURRYVILLE MINE.

Operated by the Curryville Coal and Coke Company, of Shelburn, Ind. This mine is operated by a shaft, two hundred and forty feet in depth. It was inspected on the 8th of December and found in bad condition. Many changes were ordered made.

OLD PITTSBURG MINE.

Operated by the Old Pittsburg Coal Company, of Hymera, Ind. The mine is operated by shaft, fifty feet in depth. The coal is five and one-half feet in thickness. The coal is mined by electric machines, and is hauled to the bottom of the shaft by electric motors.

LITTLE PITTSBURG MINE.

Operated by Starks & Son, of Hymera. It is worked by a shaft. The coal is hoisted out of the shaft by horse-power. The mine is worked on a small scale.

NEW PITTSBURG MINE.

Operated by the New Pittsburg Coal and Coke Company, of Alum Cave, Ind. The mine, located in the northeastern part of Sullivan County, is among the largest in the State. The coal is from six to eight feet in thickness, and is mined by machinery.

JACKSON HILL MINE.

Operated by the Jackson Hill Coal and Coke Company, at Eagle, Ind. This mine is operated by a shaft. The coal is five feet in thickness. The mine is located in the northeastern part of Sullivan County, and is a machine mine.

SMALL MINES.

SULLIVAN COUNTY.

Number of mines employing less than ten men in Sullivan County, 8; number of men in the eight mines, 27.

GREENE COUNTY.

Number of mines employing less than ten men, 4; number of men employed, 11.

DAVISS COUNTY.

Number of mines employing less than ten men, 5; number of men, 16.

KNOX COUNTY.

Number of mines employing less than ten men, 2; number of men, 5.

PIKE COUNTY.

Number of mines employing less than ten men, 9; number of men employed, 17.

DUBOIS COUNTY.

Number of mines employing less than ten men, 4; men employed, 9.

WARRICK COUNTY.

Number of mines employing less than ten men, 3; men employed, 7.

SPENCER COUNTY.

Number of mines employing less than ten men, 7; men employed, 15.

PERRY COUNTY.

Number of mines employing less than ten men, 9; number of men employed, 24.

NON-FATAL ACCIDENTS.

Patrick O'Maley, leg broken by fall of slate in Prospect Hill Mine, November 18, 1893. Prospect Hill Mine is located at Vincennes, Knox County.

William Bewger had a finger taken off while riding on the cars in Sunnyside Mine, December 29, 1893, at Evansville, Vanderburgh County.

William Gray and George Williams, both slightly injured by blast at Evansville, Vanderburgh County.

James Skull, slightly injured on the 9th of October, 1893, by a fall of slate in the Jackson Hill Mine, Sullivan County.

Ora Huff, slightly injured on the 16th of November, 1893, by blast at the Lyonton Mine, Sullivan County.

John Bredeway, leg broken by a fall of coal in Island City Mine No. 2 on the 2d of December, 1893, in Greene County.

Joseph Easley was slightly injured by a fall of slate in Cable No. 4 Mine, December 23, 1893, near Washington, Daviess County.

Jesse Gibner was injured in the Buckeye Mine, October, 1893, by a fall of slate at Cannelburg, Daviess County.

The total number of mines employing more than ten persons each, and reporting to this office, for the quarter ending December 31, 1893, I find as follows:

Sullivan County	10
Greene County	4
Daviess County	8
Knox County	2
Pike County	2
Gibson County	2
Vanderburgh County	6
Warrick County	4
Spencer County	1
Perry County	2

Total number of such mines reporting for the above quarter . 41

There will be eleven new mines to add to the above number in the next report.