# REPORT OF STATE INSPECTOR OF MINES.

Office of Inspector of Mines, Indianapolis, Indiana, March 4, 1905.

Prof. W. S. Blatchley, State Geologist:

DEAR SIR: I have the honor to submit to you herewith my sixth annual report as Inspector of Mines, covering the calendar year of 1904, and being the Twenty-sixth Annual Report of this Department and the fourteenth made to the Department of Geology and Natural Resources.

I trust it will receive your approval and be found worthy of consideration by the public.

JAMES EPPERSON, Inspector of Mines.

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#### ANNUAL REPORT.

#### STATISTICS OF COAL AND GENERAL INFORMATION PERTAIN-ING TO THE MINES OF INDIANA FOR THE YEAR ENDING DECEMBER 31, 1904.

This report includes, or covers, the following subjects or topics arranged in the order enumerated: Conditions of Coal Trade, Labor Conditions, Mine Accidents and Statistics. Under Conditions of Coal Trade a general review of the coal business for the past year is given as fully as possible. Under the head of Labor Conditions we include strikes that have occurred, Terre Haute and Brazil Agreements and other conditions relating to labor. Under Mine Accidents various tables are given exhibiting the cause, number and frequency of accidents to mine employes; also, accidents to mine property. Under the statistical part of the report numerous tables are presented showing the production of the different kinds and grades of coal, amount of wages paid to employes, the number of persons employed in the different capacities, number of mules used, number of mining machines, tables of averages, comparative tables, directory of mines and a table showing the geological number of coal seam mined and character of roof and floor at each mine in the State.

In the following summary will be found most of the important totals for the State for the year:

Number	of counties having shipping mines	14
	of coal companies operating mines	137
	of mines working more than ten men	210
	of new coal companies organized	23
Number	of new mines opened	42
Number 4	of mines abandoned	10
Number of	of pick miners employed	8,806
Number of	of machine runners	380
Number	of machine helpers	380
Number of	of loaders	3,046
Number	of inside day and monthly men employed	3,449
Number	of outside day and monthly men employed	1,777

Total number of all mine employes	17.838
Number of mules used	1,421
Number of electric chain machines	291
Number of compressed air punching machines	104
Total number of mining machines	<sup>'</sup> 395
Number of electric motors	30
Number of dynamos	67
Number of compressors	28
Total number days mines have been operated	29,641
Total tons of hand-mined block coal	640,567
Total tons machine-mined block coal	86,505
Total tons block coal	727,072
Total tons bituminous hand-mined coal	5,645,663
Total tons bituminous machine-mined coal	3,499,669
Total tons bituminous coal produced	9,145,332
Total tons hand-mined coal produced	6,286,230
Total tons machine-mined coal produced	3,586,174
Total tons of coal produced	9,872,404
Total tons of coal consumed in Indiana	5,304,906
Total tons of coal shipped outside of the State	4,567,898
Amount of wages paid to miners	5,865,033 63
Amount of wages paid to outside day and monthly men	
Amount of wages paid to inside day and monthly men	2,153,499, 11
Total amount of wages paid to all employes	9,165,404 64
Amount of money spent on improvements	74,230 85
Total number of fatalities	34
Total number of serious accidents	132
Total number of minor accidents	. 81
Total number of accidents to employes	247
Total number of accidents to mine property	12

TABLE

Showing by Months and by Counties the Number of Tons Mined and Wages Paid to Employes for the Year 1904 at Mines Employing More Than Ten Men.

MONTH.	CLAY C	OUNTY.	DAVIESS COUNTY.			
MONTH.	Tonnage.	Wages.	Tonnage.	Wages.		
January February March April May June Vuly August September December Total	108,216 106,755 52,917 45,839 47,761 58,563 75,311 73,606 80,796 85,406	\$132,870 31 126,532 89 120,422 21 64,912 26 58,474 10 63,653 30 72,955 20 103,159 60 98,97 53 96,979 95 99,323 42 116,705 05	16,571 17,966 16,595 12,994 8,083 8,004 6,289 9,076 9,004 9,786 10,201 10,601	\$17,219 75 18,934 77 18,441 37 13,937 42 10,559 79 9,224 32 7,282 67 10,115 20 9,3*6 90 10,213 49 11,113 89 10,068 46		

MONTH.	FOUNTAIN	COUNTY.	GIBSON COUNTY.		
January February March April May June July August September October November December Total	4,335 4,653 3,223 2,506 4,329 5,050 3,564 6,154 5,677 5,785 4,935 5,699	\$5,406 02 5,447 31 3,641 27 2,898 66 4,307 17 5,163 78 4,020 36 6,238 52 5,998 87 6,150 09 5,474 29 5,654 98	8,567 8,302 9,405 3,611 2,596 2,509 4,894 6,251 7,080 9,871 10,392 11,937	\$8,819 95 8,305 31 11,677 91 5,626 16 3,427 42 3,874 21 5,229 07 6,345 64 7,101 06 9,463 05 10,589 41	

MONTH.	MONTH. GREENE COUNTY.					
January February March April May. June July August September October November Total	249,538 127,737 134,897 148,185 142,964 172,028 179,531 201,526	\$197,602 37 203,292 05 209,745 32 114,415 75 123,378 63 136,901 16 127,684 63 150,305 82 158,535 16 176,976 64 192,360 79 193,106 07	15,423 16,993 17,715 8,954 6,596 6,106 6,032 7,250 12,932 15,040 17,998 19,528	\$14,875 84 13,828 59 14,973 05 8,034 49 6,034 49 6,034 6,649 5,817 34 6,849 21 9,697 53 13,521 90 15,005 26 17,367 75		

82,944 43,377 KE COUN 87,681 40,127 37,770 26,772 23,773 16,633 7,7558	\$33,896 09 35,091 77 32,657 25 17,956 19 16,114 83	206 269 1,217 1,268 705 735 753 854 566 204 235 263 7,275  SULLIVAN  124,036 128,765 122,629 87,717 86,855 92,116	\$124,590 87 120,135 13
82,944 43,377 KE COUN 87,681 40,127 37,770 26,772 23,773 16,633 7,7558	82,220 69 \$993,317 04 NTY. \$33,896 09 35,091 77 32,657 25 17,956 19 16,114 83	289 1,217 1,268 705 735 753 854 566 204 235 263 7,275  SULLIVAN 124,036 122,765 122,629 87,717	414 63 1,273 58 1,153 64 815 49 762 94 793 71 819 78 607 20 291 79 361 39 352 50 \$7,959 41
37,681 40,127 37,770 26,772 23,773 16,633 17,558	833,896 09 35,091 77 32,657 25 16,114 83	SULLIVAN 124,036 128,765 122,629 87,717	\$124,590 87 120,135 13
37,681 40,127 37,770 26,772 23,773 16,633 7,558	\$33,896 09 35,091 77 32,657 25 17,956 19 16,114 83	124,036 128,765 122,629 87,717	\$124,590 87 120,135 13
26,772 23,773 16,633 7,558	17,956 19 16,114 83	97,717	\$124,590 87 120,135 13 114,904 07 84,676 99
29,600 36,247 36,682 43,312 42,956	15,968 89 4,242 16 21,526 05 26,158 07 32,993 20 35,295 06 26,208 67 \$298,108 23	186,189 138,270 145,026 167,372 192,034 205,539	84,676 99 86,270 53 86,233 15 95,545 04 126,675 94 135,059 76 138,219 22 156,571 95 174,903 74
RRIIRGH	COUNTY.	VERMILLIO	N COUNTY
22,972 24,640 18,533 14,252 7,646 10,179 15,012 29,226 29,745 27,703 27,175	\$23,345 17 24,983 24 18,527 48 14,590 43 10,230 47 10,458 99 10,242 27 20,536 99 25,813 64 27,520 03 24,699 95 23,761 62 \$23,761 62	89,782 99,033 120,724 48,262 82,471 89,169 74,469 82,951 95,829 102,229 119,265 117,566	\$76,470 09 80,363 62 90,845 90 37,144 65 68,324 61 73,043 92 72,035 52 70,471 59 94,692 13 84,640 90 96,210 46 86,805 86
	NTY.	WARRICK	COUNTY.
IGO COUN	\$136,986 67 144,866 67 148,753 82 83,087 32	33,140 31,404 37,316 20,796 19,867 21,690 23,280	\$20,688 50 19,794 41 22,167 90 15,396 35 12,463 96 13,661 96 14,016 40 16,113 07 16,292 01 18,577 85
	47,039 60,376 73,749 <b>0</b> 0,488	73,749   148,753 82   00,488   83,087 32   13,303   103,127 63   08,443   92,927 70	73,749

# CONDITION OF COAL TRADE.

The coal business in general throughout the State for the year 1904 was not as profitable to the mine owner as it was during the preceding five or six years. The selling price of coal has been very low, ranging from 90 cents to \$1.20 per ton for mine run coal at the mine, and a majority of the mines, especially during the spring and summer months, were operated less than half time. The total production, which reached 9,872,404 gross tons, shows a decrease of 120,149 tons, or a fraction over 13-10 per cent. under 1903. This was a very small decrease in production, and to those not conversant with the situation it would seem should not distress the business to any considerable extent; yet, considering the fact that forty-two new mines have gone into operation during the year, which have helped to furnish an overproduction, it can be readily understood why the mines have not been operated so steadily and why prices have been low. large increase in the number of new mines and the consequent, increased demand for cars and transportation facilities created thereby being more than the railroads could meet, was largely responsible for the depressed condition of the business. gregate wages paid in 1904 was \$9,165,404.38, an increase over 1903 of \$15,832.26, or a fraction over 1-10 of 1 per cent. fact that this report shows a decrease in production and an increase in expenditure may seem strange. The following reasons, however, will explain the situation thoroughly, viz.: There is a fixed operating expense at each mine, whether the mine is in operation or not, and where a-mine, has been operated but eight or ten days during the month there is a large balance to be charged for operating expense for the days the mine has been idle. One other reason for the increase in expenditures was the fact that a majority of the new companies have reported as wages large sums of money paid to employes during the time of developing their property and before the mine had reached a producing capacity worth mentioning.

The total number of employes for 1904 was 17,838 an increase of 2,710 employes over 1903, and the average wage table shows the average earnings to be \$465.03 per miner, \$624.38 per inside

day and monthly men and \$645.96 per outside day and monthly men. Considering the number of days the mines were idle and time lost from other causes the above figures speak very favorable for the earning capacity of persons employed at Indiana mines.

#### NEW DEVELOPMENT.

The year 1904 marks the greatest period in the development of mining properties in the history of the State. During that period twenty-three new coal companies were organized and forty-two new mines opened and developed, which are distributed in the different counties as follows:

Clay County, five new coal companies and fourteen new mines, nine block and five bituminous; Greene County, two new companies and three new mines; Gibson County, one new company and one new mine; Knox County, two new companies and two new mines; Parke County, two new mines; Perry County, one new company and one new mine; Sullivan County, seven new companies and eleven new mines; Vermillion County, one new company and two new mines; Vigo County, three new companies and five new mines; Warrick County, one new company and one new mine.

In addition to the new mines opened, three of the older ones, viz., the Keystone, at Shelburn; Hymera No. 1 and the Island Valley No. 2, have been sunk to seams at a lower depth. As shown by the table of new mines, twenty-two are hand, or pick, mines; twenty electric chain machine mines, and three compressed air punching machine mines, the greater number of which, especially those in the bituminous field, have been equipped with the latest improved machinery of all kinds, such as box car loaders, shaker screens, self-dumping cages, etc., and should approximately increase the coal-producing capacity of the State at least 20 per cent.

We submit herewith a table exhibiting, by counties, the names of the companies operating these new mines, the names of the mines, the railroad on which they are located, the geological number and thickness of coal seams, by feet and inches; size and depth of shaft, kind of machines used, when mines were opened and when first shipment of coal was made.

# BLE OF NEW MINES.

# TABLE OF NEW MINES.

# BLOCK COAL MINES.

# CLAY COUNTY.

NAME OF COMPANY.	NAME OF MINE.	RAILROADS.	Geological Num- ber of Seam.	Thickness of Seam.	Depth of Shaft.	Size of Shaft.	Machine or Pick Mine.	Kind of Machine.	Date of Develop- ment.	First Shipment.
Zellar, McClellan & Co. Brazil Block Coal Co. Crawford Coal Co. Crawford Coal Co. Crawford Coal Co. Crawford Coal Co. Dan Davis Coal Co. Lower Block Vein Coal Co. Indiana Block Coal Co.	Crawford No. 2 Crawford No. 4 Crawford No. 8 Crawford No. 9 Dan Davis Lówer Block	S. Branch Vandalia S. Branch Vandalia S. Branch Vandalia C. & E. I S. Branch Vandalia	IV	3-4-0 3-4-0 3-4-0 3-4-0 3-4-0 3-6-0 3-6-0 3-6-0	90 160 68 80 50 86 57 48 58	8x21 8x17 8x20 7x16 8x20 7x18 8x20 8x16 8x20	Pick Pick Pick Pick Pick	Elec. chain.	8-8,'04 7-20,'04 7-7,'03 6-1,'03 5-1,'04 11-15,'03	11-25, '04

#### VIGO COUNTY.

Domestic Block Coal Co	Domestic Block	C. & E. I	IV	4-0	108	8 <b>x</b> 15	Pick	 	

# TABLE OF NEW MINES—Continued

# BITUMINOUS MINES.

# CLAY COUNTY.

NAME OF COMPANY.	NAME OF MINE.	RAILROADS.	Geological Num- ber of Seam.	Thickness of Seam.	Depth of Shaft.	Size of Shaft.	Machine or Pick Mine.	Kind of Machine.	Date of Develop- ment.	First Shipment.
Jasonville Coal Co	Vivian No. 4	S. I S. I S. I S. I C. & E. I	III III IV IV IV	6-3 5-6 5-0 4-10 4-0	203 107 43 104 85	8-6x16 9x15 9x15 9x15 8x16 8x16	Machine Machine Machine Machine Pick	Elec. chain. Elec. chain. Elec. chain. Elec. chain.	9-10, '03 5-15, '03 7-15, '03 5-1, '03 10-1, '03	7-2, '04 12-8, '04 1-1, '04 12-8, '04 7-25, '04
		GREENE C	OUNTY							
Pennsylvania Ind. C. Co. Coal Bluff Mining Co. North Linton Coal 'o. Island Valley Coal Co	North Linton	S. I I. & V S. I I. & V	IV-V IV-V V	7-6 4-2 7-6	217 152 68	9x16 9x30 9x14	Pick Machine Pick Machine			7-10,'04 1903 Jan.,'04
		GIBSON C	OUNTY							
Fort Branch Coal Co	Fort Branch	E. & T. H	vi	5-0	262	9x17	Pičk		5-14, '04	12-1, '04

#### KNOX COUNTY. .

Enterprise Coal Co	Enterprise		VI VI	4-3 4-6	154 210	11x7 8x16	Machine Machine	puncher	6-1, '03 5-16, '04	1-2, '04 11-12, '04
		PARKE CO	UNTY.	1					•	,
Mecca Coal Co	Mecca No. 4	C. & I. C	III	6 5	166	8x19 9x18	Machine Machine	Elec. chain. Elec. chain.		2-22, '04 2-28, '04
		PERRY CO	UNTY.	_		·				
Lincoln Coal Co	Lincoln	Southern (Cannel- ton Branch)	11	3–4	Slope	· · · · · · · · · · · · · · · ·	Pick		See note	
		SULLIVAN	COUNT	Y.			•			
Coal Bluff Mining Co New Pittsburg Coal Co Keystone Coal Co Jackson Hill Coal Co	Shirley Hill	Monon E. & T. H. E. & T. H. Branch E. & T. H., Farmersburg.	VI VI V	5-6 6-0 6-0 5-6	110 326	9x16 8-8x18-8 8x18	Pick Machine . Machine .	Elec. chain. Elec. chain.	9-0, '03 4-1, '04 See note 11-19, '03	6-20,'04 11-15,'04
Hymera Coal Co	Hymera No.3 Reliance Kettle Creek Hamilton	E. & T. H. E. & T. H. Farmersburg Branch E. & T. H.	VI VI VI	5-0 5-3 6-6	237 152 255	8x24 7-4x16 9x16	Machine . Machine .	Elec. chain. Elec. chain. Comp. air	5-18, '04	11-1 '04 1-1, '04 8-1, '04
Linton Semi-Block Coal Co Keller Coal Co Union Coal Co Clover Leaf Coal Co Hymera Coal Co	Clover Leaf	S. I. E. & T. H. E. & T. H. I. C. Branch E. & T. H., Farmersburg.	III? VI VI IV III?	6-5 6-0 5-6 5-9	242 200 235 306	9x18 9x18 9x19 8x19	Machine . Machine . Machine . Machine .	puncher Elec. chain Elec. chain Elec. chain Elec. chain	9-0, '03 11-10, '03 9-0, '03 No coal	1 7

# TABLE OF NEW MINES—Continued.

# BITUMINOUS MINES-Continued.

# VERMILLION COUNTY.

NAME OF COMPANY.	NAME OF MINE.	RAILROADS. `	Geological Num- ber of Seam.	Thickness of Seam.	Depth of Shaft.	Size of Shaft.	Machine or Pick Mine.	Kind of Machine.	Date of Develop- ment.	First Shipment.
Maple Valley Coal Co	Maple Valley Buckeye No.2	C. & E. I	VII	6-6 4-8	149	8-6±17-6 8x20	Pick		9-15, '03 5-20, '04	5-0,'04 9-1,'04
,		VIGO CO	UNTY.							
Vigo County Coal Co	1 -		VI VI VI VII	7-4 7-0 6-5 4-8	95 85 150 110	8x20 8x18 8-8x20 9x19	Machine . Pick Machine . Pick	puncher Elec. chain.	9-1,'03 5-1,'04 5-8,'04 5-1,'04	1-14,'04 9-10,'04 8-10,'04 8-9,'04
(		WARRICK	COUNT	Υ.						
Chandler Coal Co	Chandler	Southern	v	5	120	8x15	Pick		5-15,'04	8-16,'04

#### IMPROVEMENTS.

The monthly reports of coal companies made to this office during the year just ended show an aggregate of \$74,230.85 as having been expended on improvements of various kinds made in different mines. The following, while not representing the total amount of money expended, shows some of the most extensive improvements made:

#### CLAY COUNTY.

The Brazil Block Coal Company installed a ten-foot high-speed fan, encased in steel, at their No. 8 Mine, which has made great improvement in the ventilation of that mine.

#### GREENE COUNTY.

The Island Coal Company have installed electric motor haulage in their Island No. 1 Mine.

The L. T. Dickerson Coal Company have installed electric motor haulage in their Glenburn mine, and have also made extensive changes in the arrangement of the shaft bottom, thereby increasing the capacity of the mine, as well as reducing the operating expense of handling the coal.

The Black Creek Coal Company have also installed electric motor haulage in their Black Creek Mine.

#### PIKE COUNTY.

The S. W. Little Coal Company have installed electric motor haulage in their S. W. Little Mine, and have made other extensive improvements in and around the mine. Prior to the introduction of the motors this mine was using twenty-one mules and producing 600 tons of coal per day. At the present time they are producing 800 tons per day and using eleven mules, which indicates a large saving in operating expenses.

#### VANDERBURGH COUNTY.

The Ingle Coal Company have retimbered the hoisting shaft at their Ingle Mine, and have sunk a new manway during the year. The Crescent Coal Company have installed a new set of first motion hoisting engines, built a new engine room and have remodeled the tipple at their Unity Mine. This mine is now the largest producer in the county.

The Sunnyside Coal Company have retimbered the hoisting shaft at the Sunnyside Mine and built a new tipple, in addition to extensive repairs in the interior of the mine.

#### WARRICK COUNTY.

The Charles Menden Coal Company have equipped their De Forrest Mine with compressed air punching machines, and have installed a ten-foot ventilating fan. The ventilation here had previously been furnished by a furnace. Since the installing of the fan conditions have improved very much.

#### CHANGES IN OWNERSHIP OF MINING PROPERTIES.

The Fortner Mine, located near Turner, in Clay County, formerly owned by the C. Ehrlich Coal Company, was sold to the Star Union Coal & Oil Company in May. The mine, for some reason, has been operated but two months by the present owners.

The Little Giant Mine, owned by the L. T. Dickason Coal Company, changed hands in October, and is now the property of the Coal Bluff Mining Company. This mine is located on the Monon branch of the I. C. Railroad, in Sullivan County.

The Rhodes Mine, located on the C. & E. I. R. R., near Clinton, in Vermillion County, formerly the property of the Rhodes Coal Company, was sold in January to J. K. Deering & Co., of Chicago, who are now operating it to its full capacity.

The Star No. 2 Mine, located at Newburg, in Warrick County, owned by the John Archibald Coal Company, was purchased during the spring by the Ohio River Coal Company. This mine has been operated for a number of years as a local mine, furnishing employment for less than ten miners. Since changing hands the present company have sunk a manway and made numerous other improvements, with a view of increasing the output, and about thirty miners are now employed.

#### ABANDONED MINES.

Ten mines were abandoned during the year, six of which were block and four bituminous mines. We give herewith a list of the names of abandoned mines, companies operating same, date of abandonment, and the counties in which the mines were located:

#### CLAY COUNTY.

Brazil Block Coal Company, Diamond No. 5; mine abandoned September 15.

Zellar, McClellan & Co., Lawrence No. 6; mine abandoned May 30.

Crawford Coal Company, Crawford No. 2; mine abandoned June 8.

Crawford No. 7; abandoned during the month of November.

Eureka Block Coal Company, Eureka No. 3; mine abandoned during the month of January.

#### DAVIESS COUNTY.

Cabel & Kaufman Coal Company, Cabel No. 9; mine flooded and abandoned in March.

Daviess County Coal Company, Montgomrey No. 2; mine abandoned March 5.

#### PARKE COUNTY.

New Century Coal Company, New Century; mine abandoned in May.

Crawford Coal Company, McIntosh No. 3, or Crawford No. 10; mine abandoned May 9.

#### SULLIVAN COUNTY.

Hymera Coal and Mining Company, Hymera No. 1; mine abandoned No. V coal seam May 1 and sunk to No. IV.

#### VIGO COUNTY.

Coal Bluff Mining Company, Union; mine abandoned in March. Note.—The Hymera Coal and Mining Company have mined out and abandoned two coal seams at their Hymera No. 1 mine, coal No. V and No. VI.

#### TABLE

Showing by Counties the Name of Mine, Number of Tons Screened, Slack and Nut and Mine Run Coal, Total Tons of all Grades of Coal Produced, and the Distribution Thereof; the Production of Block and Bituminous Coal, Each Being Shown Separately, as is the Machine and Pick or Hand Mined Coal.

#### BLOCK COAL MACHINE MINES.

#### CLAY COUNTY.

		MACHIN	R MINED		ļ,	Ріск 1	MINED.		DISTRI	BUTION.		WAGES	PAID.	
NAME OF MINE.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of all kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of all kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Brazil Block No. 1. Brazil Block No. 8. Diamond No. 5 Gart No. 10 Total	7,260 10,776 2,788 4,054 24,878	1,447 2,157 661 810 4,975		8,707 12,933 3,349 4,864 29,853	4,973 11,181 9,375 24,001 49,530	1,020 2,245 1,665 4,805 - 9,735		5,993 13,426 11,040 28,806 59,265	7,784 2,281 5,355 4,425 19,845	6,916 24,078 9,034 29,245 69,273	\$10,776 20 19,081 21 11,897 01 27,473 13 \$69,227 55	\$10,696 48 23,935 48 6,360 61 10,960 54 \$51,953 11	\$6,378 41 8,398 59 4,480 15 6,647 28 \$25,904 43	\$27,851 09 51,415 28 22,737 77 45,088 95 \$147,093 09

#### PARKE COUNTY.

Brazil Block No.12. Mary		4,492 2,3 <b>4</b> 0	 26,308 30,344	10,379 2,977	2,079		12,458 2,977	5,839 1,477	32,927 31,844	\$30,099 89 26,655 52	\$25,067 78 18,011 40	\$9,038 89 9,075 89	\$64,206 56 53,742 81
Total	49,820	6,832	 56,652	13,356	2,079		15,435	7,316	64,771	\$56,755 41	\$13,079 18	\$18,114 78	\$117,949 37
Total Machine Block	74,698	11,807	 86,505	62,886	11,814	·	7 <b>4,</b> 7 <b>0</b> 0	27,161	134,044	\$125,982 96	\$95,040 29	<b>\$44,019 2</b> 1	\$265,042 46

# BITUMINOUS MACHINE MINES.

# VANDERBURGH COUNTY.

Ingleside	-60		1,576 107	1,636 107	1,445 18,398	9,964	16,484 14,096	17,9 <b>2</b> 9 42,458	18,811 33,142	754 9,423	\$12,620 94 11,202 47	\$3,041 11 17,236 05	\$4,040 05 13,378 14	\$19,702 10 41,816 66
Total	60		1,683	1,743	19,843	9,964	30,580	60,387	51,953	10,177	\$23,823 41	\$20,277 16	\$17,418 19	\$61,518 76
		,				GRE	ENE C	OUNTY						· ·
Black Creek Island No. 1 Island No. 2 Gilmour Hoosier No. 1 Hoosier No. 2 Island Valley No. 2 Midland Summit No. 2 Glenburn Tower Hill Green Valley Lattis Creek No. 1 Atlas No. 1 Atlas No. 2 Letsinger North Western Twin	30,963	18,745 10,794 11,482 1,941 4,317 12,288 25,012 8,769 12,589 39,157 72,218 22,741 2,992 28,775 12,131 283 951	19,503 52,529 37,403 98,108 19,028 5,337 5,376 10,923 54,185 27,489 86,884 36,884 38,855 5,820 14,91 14,94 32,227	72,801 52,529 81,251 98,105 43,248 11,535 18,469 54,174 98,242 55,662 44,794 113,833 184,132 128,782 9,255 80,246 80,993	3,993 3,150 32,421 15,542 9,781 37 3,090 3,388 1,939	11,719 11,937 2,734 29 8,500 3,662 1,513 400 40,494	12,355 69,580 38,399 	45,426 69,580 84,304 6,879 217 32,421 43,067 14,026 37 15,315 16,480 4,901 2,869	67,518 52,529 84,304 52,683 29,232 11,555 46,588 39,303 39,024 67,175 128,974 135,376 21,195 7,121 30,570 68,964 1,030,577	50,709 69,580 81,251 45,425 14,016 10,793 7,803 46,732 9,426 19,796 55,158 8,713 1,113 7,032 52,545 12,029	\$60,277 74 63,039 92 93,388 71 55,558 32 16,097 71 5,532 10,625 83 27,187 62 49,417 75 64,929 31 30,002 49 102,119 94 73,539 13 16,022 63 8,554 45 38,995 50 \$811,298 18	\$25,216 58 31,073 83 32,295 34 20,842 52 14,270 52 4,433 8,257 47 8,208 09 27,153 41 25,061 85 13,797 63 19,006 36 37,881 72 27,727 04 8,748 99 3,270 66 21,064 60 9,176 65	\$10,788 10 9,531 18 15,425 39 6,315 15 9,094 07 1,473 00 6,510 04 14,892 74 13,454 23 10,035 43 61,897 89 21,942 43 14,596 05 7,015 46 3,669 05 10,549 17 9,303 45	\$96,282 42 103,644 93 141,119 44 80,745 99 39,462 30 11,439 75 25,393 34 50,288 45 90,025 39 100,026 59 100,026 59 115,862 92 31,787 08 15,494 18 70,210 22 57,475 60 \$1,332,075 24
`	<u> </u>	·				CL	AY CO	UNTY.						• •
Gifford No. 1 Gifford No. 2 Lewis Vivian No. 4 Vivian No. 5 Island Valley No. 4 Gold Knob	5,055 10,600 1,488 11,472 8,265 10,683 8,581 56,144	1,364 7,257 7,168 4,664 4,933 25,386	290 32,600 1,017 12,429 1,569 47,905	5,345 10,600 35,452 18,729 16,450 27,776 15,083	18,505 38,841 	7,062 18,082	2,773 483 1,015 41 5,004	26,259 59,696 483  1,015 118 87,571	5,345 10.600 13,557 5,163 4,737 17,891 4,392 61,685	26,259 59,696 22,378 13,566 11,713 10,900 10,809	\$20,782 18 44,371 90 14,467 79 13,577 88 11,541 80 11,821 63 7,366 86	\$19,438 12 29,923 92 7,430 10 8,028 90 6,944 64 8,415 01 6,850 90 \$87,031 59	\$5,989 47 11,403 05 4,686 95 6,872 57 6,575 07 5,503 08 5,299 14	\$46,209 77 85,698 87 26,584 84 28,479 25 25,061 51 25,739 72 19,516 90
		1		1	II /		I							

# BITUMINOUS MACHINE MINES-Continued.

# PARKE COUNTY.

	,	MACHIN	E MINED.			PICK I	MINED.		Distrii	BUTION.		WAGE	PAID.	
NAME OF MINE.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of all kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of all kinds of Coal Produced.	Indiana.	Other States.	То Міпетв.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Lyford No. 1 Parke No. 11 Mecca No. 3	26,943 747 <b>30,444</b>	14,659 450 13,586	17,575 61,362 10,936	59,177 62,559 54,966	1,203 389 19,227	505 220 9,833	1,301 29,260 3,653	3,00 <b>9</b> 29,869 32,713	11,259 81,427 51,133	50,927 11,001 36,546	\$26,703 13 46,865 01 44,331 86	\$20,042 41 10,965 52 14,435 57	<b>\$</b> 9,758 9 <b>8</b> <b>5,714</b> 53 <b>5,589</b> 39	\$56,504 52 63,545 06 64,356 82
Total	58,134	28,695	89,873	176,702	20,819	10,558	34,214	65,591	143,819	98,474	\$117,900 00	<b>\$45,443 5</b> 0	<b>\$21,062</b> 90	\$184,406 40

Bunker Hill Caledonia	24,367 10,05 54,506 20,28	1 10,441	34,426 85,228	14,205	5,861	;	20,066	11,003	54,492 74,225	\$29,964 67 43,234 85	\$14,955 <b>0</b> 2 30,723 45	\$6,775 18 15,957 86	\$51,694 87 89,916 16
Dugger Green Hill Hymera No. 1	Not replorted. 17,798   8,11 9,592   23,59	8 1,059	26,975 43,823	1,124	544	38	1,706	2,856 9,196	25,825 34,627	14,862 22 21,047 78	11,629 80 10,245 29	6,169 25 5,55 <b>3</b> 27	32,661 27 36,846 34
New Linton Jackson Hill No. 2. Phœnix Nos. 1 and 3	7,215 3,42 60,884 31,83	3   20,335 3   34,276	30,973 126,993 32,672	3,079	3,338	169	6,586	36,859 14,948	30,973   96,720 17,724	11,500 89 57,741 54 17,893 50	9,22 <b>4 2</b> 0 25,377 29 7,616 50	8,185 92 12,701 87 3,343 50	28,911 01 95,820 70 28,853 50
Shelburn Star City	11,146 43,611 25,60		15,902					15,902 10,345	58,867	1,990 30 33,486 84	2,098 88 25,641 11	1,832 93 17,141 <b>2</b> 0	5,92 <b>2</b> 11 76,269 15
Virginia Sun Flower Glendora	Not replorted 101,534 32,41 82,856 35,20	5,515 8 10,528	139,450 128,592					565 57,964	138,894 70,628	72,129 79 68,783 60	7,434 21 32,337 05	14,873 52 15,369 35	94,437 52 116,490 00
Hymera No. 2 Wilfred No. 1 Reliance	18,056 76,59 66,879 53,36 New mline.	59,876 8 11,758	154,530 132,005		252	844	1,171	40,898 30,247	114,803 101,758	67,664 43 71,081 52	22,706 94 27,119 99	15,156 94 16,316 32	105,528 31 114,517 83
Mammoth Vein Little Giant Cummins	26.825 18,51 8,733 3,51	8 13,607 0 55,537	58,950 67,780	11		3,189	3,189 15,624	16,517 70,969 11,503	42,433 18,053	29,825 40 34,629 73 17,184 00	21,104 28 30,741 10 6,924 00	13,975 35 8,279 14 3,642 00	64,905 03 73,649 97 27,750 00

La Blanche Citizens Mildred St. Clair Jackson Hill No. 4. Hymera No. 3 Kettle Creek Pheenix No. 4 Union No. 1	53,039 4,084 11,865 9,762 180 612,932	30,652 2,030 6,548 22,672 180  404,607	7,574 2,729 37,925 772 2,780 8,267 600 2,325 1,150	91,265 8,843 37,925 19,185 2,780 40,701 960 2,325 1,150 1,366,586	5,526 675 27,444	5,318 1,610	213 1,736 169 852 2,205 25,039	2,205 5,881 11,013 3,167 2,205 70,870	43,293 14,724 37,925 1,235 5,333 960 2,325 - 1,050 436,617	19,185 12,558 38,535 2,305 1,000,839	44,061 59 8,964 03 28,125 00 9,212 78 8,238 09 18,170 29 921 60 1,000 00 2,580 02 \$714,294 46	23,640 11 3,287 63 6,676 00 5,645 77 3,017 20 10,672 93 600 00 930 50 \$340,349 25	16,787 24 5,848 03 3,740 60 4,178 25 2,602 27 8,362 70 152 80 302 80 610 14 \$207,858 43	84,488 94 18,099 69 38,541 60 19,036 80 13,857 56 37,205 92 1,074 40 1,902 80 4,120 66
						VI	GO COL	JNTY.				<u> </u>		
Atherton Glen Oak Park No. 10. Sugar Creek Ray No. 2. Forrest Park	59,642 43,263 43,057 2,341 4,985	29,468 7,344 38;006 469 5,143	978 50,980 32,206 986 356 3,053	90,088 101,587 113,269 3,796 10,484 3,053	2,529 11,813 24,339 9,357	1,207 2,045 4,851 3,939	3,20 <b>4</b> 6,375 976	3,736 17,062 35,565 14,272	98,679 35,565 16,498 3,053	81,176 - 118,649 14,590 3,796 8,258	\$45,794 43 55,360 23 58,226 52 35,142 37 16,051 08 3,200 00	\$16,716 75 37,674 30 21,601 49 9,113 58 3,589 47 1,100 00	\$8.750 83 14,710 16 11,306 23 5,950 56 6,747 05 632 00	\$71,261 51 107,744 69 91,134 24 50,206 51 26,388 60 4,932 00
Total	153,288	80,430	88,559	322,277	48,038	12,042	10,555	70,635	166,443	226,469	<b>\$</b> 213,774 63	\$89,795 59	\$48,096 33	\$351,666 55
	'					WAR	RRICK	COUNTY			·			
Big Four Big Vein, No.3 DeForrest Electric	7,343 3,806	3,720 1,827	62,70 <b>5</b> 94,566 400 91,809	62,705 94,566 11,463 97,442			6,358	6,358	65,063 94,566 5,713 34,854	4,000 5,750 62,588	\$28,053 51 40,838 65 5,278 45 42,521 61	\$7,361 46 6,256 35 1,180 35 12,462 48	\$4,978 48 5,256 60 1,036 64 6,095 52	\$40,393 45 52,351 60 7,495 44 61,079 61
Total	11,149	5,547	249,480	266,176			6,358	6,358	200,196	72,338	\$116,692 22	\$27,260 64	\$17,367 24	<b>\$</b> 161,320 10
						KI	NOX CO	UNTY.				<u> </u>	'	
Enterprise Pine Knot			2,859 20	2,859 20			4,465	4,465	5,788 5	1,536 15	\$2,553 44 789 18	<b>\$505</b> 55	\$749 12 1,339 62	\$3,808 11 2,128 80
Total			2,879	2,879			4,465	4,465	5,793	1,551	<b>\$3,34</b> 2 <b>62</b>	<b>\$</b> 505 55	\$2,088 74	\$5,936 91
Total Bitumin- ous Machine Mines	1,297,597	828 <b>,6</b> 16	1,373,456	3,499,669	299,228	116,589	285,590	701,407	2,097,083	2,103,993	\$2,125,055 <b>56</b>	\$948,151 09	<b>\$54</b> 3,510 41	\$3,616,717 06

#### BLOCK COAL—HAND OR PICK MINES.

# CLAY COUNTY.

		Рвор	uction.		DISTRI	BUTION.		WAG	ES.	
NAME OF MINE.	Tons of Screened Coal.	Tons of Slack and Nut Coal.	Tons of Mine- Run Coal.	Total Tons of all Kinds of Coal Produced	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages Paid.
Gart No. 7  Jontinental No. 1  Reb Stock  Lawrence No. 6  Lawrence No. 7  Jornwall  Jrawford No. 2  Jrawford No. 5  Jrawford No. 6  Jrawford No. 7  Lorence No. 3  Monarch  Jrawford No. 8  Lower Vein  Jrawford No. 8  Lower Vein  Jrawford No. 9  Brazil Block No. 4  Superior No. 4  Worlds Fair No. 2  Jrawford No. 9	13,808 8,469 20,974 27,667 9,287 853  12,046 11,655 2,997 4,022 2,576 2,660	9,065 3,933 2,665 2,500 7,895 2,110 4,697 2,110 6,414 1,729 30 3,015 701 810 560 540 437	639 277 179 33 8,614	54,340 21,102 17,501 12,660 38,654 15,505 10,579 25,753 34,081 11,016 9,614 15,121 14,670 3,698 4,832 3,136 3,200 2,811	31,650 3,704 3,225 11,276 34,909 15,505 4,773 11,405 14,903 7,283 31,400 6,093 1,400 3,136 3,200 1,700	22,690 17,398 14,276 1,384 3,745 5,806 14,348 19,178 3,733 604 8,971 8,577 2,298 4,467	\$50,243 58 16,828 47 14,712 80 10,776 49 35,191 98 15,287 78 8,432 85 21,129 04 28,935 67 9,482 92 3,947 80 11,100 00 12,926 86 15,819 77 3,717 49 6,007 81 5,460 50 3,947 73 2,854 19	\$14,181 11 9,912 71 8,165 69 2,477 14 13,984 \$5 4,368 69 1,875 16 6,122 52 7,188 98 3,678 61 146 80 3,157 95 4,765 90 6,906 47 1,966 66 8,908 41 2,124 01 1,520 52 2,401 54	\$7,345 60 4,285 23 4,055 39 1,235 55 7,547 59 2,318 24 49 79 3,809 63 5,58 46 1,986 46 1,58 18 3,085 81 1,270 43 4,681 99 729 08 1,437 15	\$71,770 29 31,026 41 \$26,933 88 13,838 13,838 14,838 14,838 156,724 42 21,954 77 10 11,757 70 31,061 19 39,928 84 15,147 99 4,653 00 15,488 13 20,778 57 6,954 58 19,597 27,636 59 6,954 58 6,954 58 6,692 88

#### PARKE COUNTY.

McIntosh No. 3 Superior No. 1 Superior No. 2 Superior No. 3 Pan-American Brazil Block No. 9	51,121 46,736 27,004	725 12,700 11,811 7,375 7,410 8,060	467 571 391	5,109 64,288 59,118 34,379 57,028 47,756	30,801 29,331 15,782 23,881 11,899	5,109 33,487 29,787 18,597 33,147 35,857	\$4,377 78 56,666 00 52,284 72 35,642 50 54,481 30 44,271 77	\$1,764 59 20,239 66 21,809 26 12,350 37 21,277 40 18,068 24	\$1,159 46 10,119 81 10,587 16 5,846 50 4,773 60 7,510 93	\$7,301 83 87,025 47 84,681 14 53,839 37 80,532 30 69,850 94
Total	218,168	48,081	1,429	267,678	111,694	155,984	\$247,724 07	\$95,509 52	\$39,997 46	\$383,231 05
Total hand mine-bleck	454,839	99,857	11,171	565,867	281,297	284,570	\$523,907 80	\$199,356 24	\$96,749 83	\$820,013 87

# BITUMINOUS-HAND OR PICK MINES.

#### CLAY COUNTY.

Cloverland No. 1.	70,356	23,170	16,581	110,107	110,107	1	\$71,109 22	\$17,719 34	<b>\$</b> 8,861 47	\$07 600 03
Cloverland No. 2	33,798 13,103	10,866 9,416	1,883	46,547 22,519	44,149	2,398 8,638 970	40,224 78 13,086 21	8,241 00 3,039 19	3,936 90 2,018 00	\$97,690 03 52,402 68 18,143 40
Fortner	6,058 26,034	2,264 12,093	3,462	8,322 41,589	13,881 7,352 39,645	1.944	6,616 45 25,061 73	2,581 33 7,363 24	1,166 53 6,121 03 758 55	10,364 31 38,546 00
Glenn No. 2. Pearl Glenn No. 1	31,679	375 21,745 5,565	1,943	1,886 55,367 29,393	35,194	1,886 20,173 29,393	1,625 40 32,429 85 24,792 15	1,536 15 11,131 03 6,306 80	5,098 65 2,995 05	3,920 10 <sup>4</sup> 48,658 93 34,093 50
Total	206,367	85,494	23,869	315,730		65,402		<b>8</b> 57,917 58	<b>\$30,955</b> 58	\$303,818 95

#### DAVIESS COUNTY.

Cable No. 9.  Montgomery No. 2.  Montgomery No. 3.  Mutual  Utual  Mandabach	1,976 60,862 11,900	285 6,906 1,500	12,212 1,039 4,157 13,500 6,421 12,411	12,212 3,300 71,925 26,900 6,421 12,512	12,212 2,200 47,738 16,100 6,421 12,512	1,100 24,187 10,800	\$7,489 75 1,848 15 56,760 56 19,700 50 3,963 40 7,952 66	\$3,718 10 290 85 18,527 47 5,990 00 881 02 990 68	\$1,386 40 590 35 10,886 40 3,755 00 831 35 935 48	\$12,594 25 2,729 35 86,174 43 29,445 50 5,675 77 9,878 82
Total	74,806	8,724	49,740	133,270	97,183	36,087	\$97,715 02	\$30,398 12	<b>\$18,384</b> 98	\$146,498 12

# BLOCK COAL-HAND OR PICK MINES-Continued.

# FOUNTAIN 'COUNTY.

		Prop	UCTION.		Distri	BUTION.		WAG	es.	
NAME OF MINE.	Tons of Screened Coal.	Tons of Slack and Nut Coal.	Tons of Mine- Run Coal.	Total Tons of all Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wagos Paid.
Rush	18,5 <b>9</b> 2 3,329	5,753 1,900	11,426 14,910	35,771 20,139	35,771 18,473	1,666	\$27,260 71 14,004 59	\$7,410 35 4,524 23	\$4,260 50 2,931 94	\$38,931 56 21,460 76
Total	21,921	7,653	26,336	55,910	54,244	1,666	\$41,265 30	\$11,934 58	\$7,192 44	\$60,392 32
			GIB	son cou	NTY.					
Oswald Massey	17,424 3,071	18,720 2,303	18,781 23,624 1,672	54,925 28,998 1,672	50,013 23,175 1,672	4,912 5,823	\$32,471 58 20,199 47 1,687 00	\$12,033 30 9,462 13 219 00	\$11,392 78 2,239 48 287 50	\$55,897 66 31,991 08 2,193 50
Tota1	20,495	21,023	44,077	85,595	74,860	10,735	\$54,358 05	\$21,714 43	\$14,009 76	\$90,082 24
			GREI	ENE COU	NTY.		•			
Island No. 3. Island No. 5. Island Valley No. 3. South Linton Vulcan Templeton Victoria	85 27,624 43,499 1,882 3,575 63,959	13,322 23,921 771 280 46,678	47,493 19,632 37,389 48,755 5,016 55,960 174,572	47,493 19,717 78,335 116,175 7,669 59,815 285,209	43,496 76,552 59,815 282,445	47,493 19,717 34,839 39,623 7,669	\$30,399 24 14,195 10 49,208 28 70,908 92 5,062 04 34,736 15 164,273 98	\$12,066 88 6,099 36 14,211 04 20,443 87 558 97 11,634 45 29,844 90	\$6,495 90 2,913 32 7,881 33 7,070 75 1,244 66 6,985 60 13,009 08	\$48,962 02 23,207 78 71,300 65 98,423 54 6,865 67 53,356 20 207,127 96

\$126,195 89

Fry. North Linton. Pennsylvania. Total	22,142 2,574 193,166	10,400 893 118,680	9,190 6,991 740 426,717	9,190 89,533 4,207 738,563	9,190 24,620 3,015 561,874	14,913 1,192 176,689	7,965 00 28,353 98 3,891 98 8461,835 47	3,560 00 6,734 87 828 <b>29</b> \$127,569 81	3,670 00 3,562 95 1,761 55 \$62,824 48	15,195 00 38,651 '80 6,471 82 \$652,229 76
		1	KN	OX COUN	<b>TY.</b> '					,
Bicknell. Knox. Lynn Prospect Hill	10,378 511	14,647 9,463 291 2,363	12,933 10,784 41,161 200 18,230	45,041 30,625 41,161 1,002 25,394	28,561 11,741 29,191 1,002 23,506	16,480 18,884 11,970	\$24,075 76 16,222 76 23,987 45 824 52 18,822 13	\$7,732 72 6,205 02 5,221 11 422 73 4,106 69	\$5,826 35 3,165 37 5,200 92 182 50 4,199 86	\$37,634 83 25,593 15 34,409 48 1,429 75 27,128 68

#### PARKE COUNTY.

143,223

94,001

49,222

\$83,932 62

\$23,688 27

\$18,575 00

33,151

26,764

83,308

Lucia Mecca No 1 New Century Minshall No. 1	379 172 85,700	6,818 187 85 17,143	14,736 2,514 402 7,493	37,150 3,080 659 110,336	25,934 2,884 659 82,000	11,216 196 28,336	\$21,594 12 1,937 42 1,580 00 94,784 91	\$11,286 09 3,032 50 1,101 00 36,854 61	\$5,478 73 581 06 500 00 11,248 08	\$38,358 94 5,550 98 3,181 00 142,887 60
Minshall No. 2. Raccoon. Mecca No. 4. C. B. Harrison.	8,629	4,290	2,824 8,397 5,944 671	11,280 8,397 18,863 671	11,280 8,397 6,766 671	12,097	10,636 07 6,349 73 12,391 25 369 05	4,768 27 2,540 49 3,750 00 61 54	2,594 23 1,053 47 1,309 76 92 00	17,988 57 9,943 69 17,451 01 522 59
Cox No. 3	117,367	30.088	64,335 5,548 112,864	64,335 5,548 260,319	51,715 5,548 195,854	12,620	38,416 16 3,223 39 \$191,282 10	18,560 88 1,162 95 \$83,118 63	9,760 62 711 84 833,329 49	66,737 66 5,098 18 \$307,730 22
TOM:	111,301	30,000	112,004	200,319	150,004	02,400	10191,202 IU	\$00,115 OS	\$55,529 49	1001,730 22

#### PERRY COUNTY.

m .		= 075		h 055		AF 000 11	41 007 50	41 000 50	
Troy	 •••••	7,275	7,275	7,275		<b>\$</b> 5,30 <b>3</b> 11	\$1,387 52	<b>\$1,268</b> 78	<b>\$7,9</b> 59 <b>41</b>

# BLOCK COAL-HAND OR PICK MINES-Continued.

# PIKE COUNTY.

		PROD	CTION.		Distri	BUTION.		W₄G	ES.	
,	ned	t al.		all sal				Δ	ау	
NAME OF MINE.	Scre	lons of Slack and Nut Cos	Mine	of Cod.		States.	ers.	Da	de D	808
-	of S	of S	ons of Mine Run Cosl.	Tons of G	8118		Міве	nsido n.	ntsi n.	ď.
`	Tons of S	Tons	Tons Ru	Total Kin Pro	Indian	Other	To M	To Inside Men.	To Outside Men.	Total Wages Paid,
1 - 1	! 		0.204	2,324	2,324		ø1 494 40	<b>\$</b> 719 18		
lberdeen yrshire No. 3 Lyrshire No. 4 Lyrshire No. 5	13,016	6,346 20,253	2,324 1,682	21,044 90,332	16,659 62,168	4,385 28,164	\$1,424 49 11,536 49 51,336 44	5,109 88 14,374 24	\$481 00   2,427 35 6,595 01	\$2,624 67 19,073 72
yrshire No. 5	606 3,538	753 4,668	1,682 39,734 3,476 3,148	4,835 11,354	3,337 7,629	1,498 3,725	2,954 75 6,597 24	1,024 64 2,158 92	686 92 1,336 52	19,073 72 72,305 69 4,666 31 10,092 68 74,306 79
lackburnittles	35,232	47,145	9.670	92,047	63,510	28,537	52,556 65	14,571 53	7,178 61 43 31	74,306 79
ogersartwell	3,587	1,901	2,674 70,427	2,674 75,915	2,674 45,270	30,645	1,449 02 43,238 53	457 42 12,844 62	8,731 00	1,949 75 64,814 15
etersburg. /inslow Nos. 2 and 5/inslow Nos. 5/inslow No. 5/	12,306	ported. 11,404	17,439	41,149	19,291	21,858	22,147 17	15,070 83	4,390 95	41,608 95
vinslow No. 5earbon	Keport	ed with	No 2. 7,459	7,459	7,459	<b></b>	3,972 52	1,738 00	955 00	6,665 52
Total	98,630	92,470	158,033	349,133	230,321	118,812	\$197,213 30	\$68.C6 J 26	<b>\$</b> 32,825 67	\$298,108 28

#### SULLIVAN COUNTY.

White Ash Freeman Island No. 4. Bruilettes Creek No. 6 Shirley Hill Superior	21,145 4,649 11,780	9,774 1,509 10,909	29,082 12,321 8,561 11,010 4,816	31,642 30,919 18,479 31,250 11,777 28,451	13,817 6,650 18,479 2,004 11,777 22,102	17,825 24,269 29,246 6,349	\$21,502 76 23,260 39 14,970 20 17,736 05 9,767 20 20,568 07	\$5,349 80 5,358 01 10,022 69 9,239 27 3,696 85 5,633 20	\$3,850 13 3,639 37 9,685 20 4,620 95 2,314 20 4,029 91	\$30,702 69 32,257 77 34,678 09 31,596 27 1 <b>5</b> ,778 25 30,231 18
Total	54,042	<b>3</b> 2,686	65,790	152,518	74,829	77,689	\$107,804 67	\$39,299 82	\$28,139 76	\$175,244 25

		**	VANDE	RDURGH	COUNTY	•		*					
Diamond. First Avenue	17,464 9,561 9,184 29,697	11,125 5,659 4,609 5,079	7,748 5,399 9,184 60,786	36,337 20,619 22,977 95,562	36,337 18,748 22,977 95,5 <b>6</b> 2	1,871	\$23,575 19 14,983 50 19,168 95 67,434 60	\$4,561 89 3,221 45 3,016 95 15,724 37	\$1,376 52 3,649 45 4,210 05 9,469 50	\$32,513 60 21,854 40 26,395 95 92,628 47			
Total	65,906	26,472	83,117	175,495	173,624	1,871	\$125,162 24	\$26,524 66	<b>\$</b> 21,705 52	\$173,392 42			
VERMILLION COUNTY.													
ruilettes Creek No. 3	1,953 81,521	1,490 49,085	80,675 59,528	84,118 190,134	3,607 18,608	80,511 171,526	\$44,610 10 110,463 76	\$15,594 40 25,751 85	\$5,173 05 9,838 35	\$65,377 55 146,053 96			
Sureka Frown Hill No. 1 Frown Hill No. 2.	28.829	18,126 4,665 17,191	11,556 83,892 90,811 57,478	11,556 145,222 109,093 103,498 174,710	11,556 35,480 24,579	109,742 84,514 103,498	7,829 28 97,619 10 62,998 24 60,893 47	2,977 98 23,420 64 16,654 27 18,370 74	2,528 64 4,444 10 3,968 50 8,799 80	13,335 90 125,483 84 83,621 01 88,064 01			
rince. Villow Grove. klodes Liverside Asple Valley No. 1. 4aple Valley No. 2.	58.275	17,325 32,640 1,551	174,710 38,306 39,551 15,717 60,353	98,172 130,466 21,234 60,353	17,112 3,669 8,986	174,710 98,172 113,354 17,565 51,367	104,682 62 49,226 10 83,712 34 15,426 45 37,349 65	28,276 69 10,413 55 22,712 37 2,726 90 13,088 96	10,730 61 5,054 60 11,592,95 3,093 25 6,925 94	143,689 92 64,694 25 118,017 66 21,246 60 57,364 55			
Total	273,906		3,194 715,771	3,194 1,131,750	3,194 126,791	1,004,959	2,500 00 \$677,311 11	\$181,088 <b>3</b> 5	\$72,649 79	\$931,049 25			
		' '	VI	go coun	TY.	<u> </u>	<u>'</u>	·	- 1	, ,			
Brick Works Chicago No. 6 Diamond eerless Awton Juion Ehrlich Frant No. 2 Jector Lloudyke Redbird Losebud No. 2 Royal No. 1	1,348 62,404 28,597 71,706 10,167 1,169 24,811 18,284 9,942 19,695 59,718 20,508	615 27,700 11,590 37,018 3,940 835 29,541 12,825 7,315 15,027 26,526 10,438	9,644 6,823 28,502 2,693 48,715 1,197 90,512 199 37,299 10,772 7,294 50,857	9,644 8,786 118,606 42,880 157,439 15,304 2,004 144,864 31,308 54,556 45,494 93,538 81,803	9,644 8,786 118,606 157,439 15,304 2,004 106,435 30,847 1,803 45,494 80,565 81,239	38,429 461 52,753 12,973 564	\$7,534 66 5,627 55 76,088 60 29,447 00 100,971 65 9,834 30 1,161 84 77,952 33 18,610 76 28,331 25 22,833 48 56,474 45 55,564 18	\$2,066 41 3,755 50 26,401 20 11,606 40 21,943 00 2,926 50 453 74 25,073 64 9,604 91 12,789 45 9,806 83 20,308 02 14,332 34	\$1,491 48 2,553 37 9,491 35 5,802 40 240 66 10,927 31 6,215 85 7,711 50 4,979 08 5,303 87 4,749 39	\$11,092 55 11,936 42 111,981 15 46,855 80 131,778 90 15,202 80 1,856 24 113,953 28 34,431 52 48,832 20 37,619 39 84,086 53 74,645 91			

# BLOCK COAL-HAND ORPICK MINES-Continued.

#### VIGO COUNTY-Continued.

		Produ	CTION.		Distri	ution.	WAGES.					
NAME OF MINE.	Tons of Screened Coal.	Tons of Slack and Nut Coal.	Tons of Mine- Run Coal.	Total Tons of all Kinds of Coal Produced.	Indiana.	Othor States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages Paid.		
Larimer Broadhurst. Miami No. 2. Deep Vein No. 1 Greenfield No. 1 Lost Creek. Miami No. 3. Miami No. 1. Total	31,926 31,619 26,453	17,304 30,628 17,511 17,539 19,874 3,004 79,808 368,838	17,460 23,809 9,309 23,929 11,463 17,281 12,762	17,460 59,249 71,863 73,059 55,255 61,588 21,009 160,400 1,326,109	16,019 47,448 67,947 55,255 57,360 902,195	1,441 11,801 71,863 5,112 4,228 21,009 160,400 423,914	9,638 90 32,577 11 43,745 95 40,392 99 37,308 73 40,697 01 9,294 49 90,960 42 797,047 84	1,951 56 7,313 85 11,901 83 9,314 68 6,799 00 7,863 04 3,624 24 19,096 25	1;566 70 7,664 39 4,975 39 6,144 25 6,514 40 6,471 99 1,785 60 7,956 03	13,157 16 47,555 35 60,623 17 55,851 92 50,622 13 55,032 04 14,704 33 118,012 70		

#### WARRICK COUNTY.

Air Line Chandler Star No. 1 Burke	5,460	1,800 2,830	2,150 3,360 32,624 17,692	7,400 11,650 32, <b>6</b> 24 17,692	2,420 3,250 32,624 17,692	4,980 8,400	\$3,908 25 7,219 95 15,438 78 8,343 71	\$986 10 1,207 30 5,428 01 1,686 66	\$459 70 971 55 3,287 62 2,160 81	\$5,354 05 9,898 80 24,154 41 12,191 18
Total	8,910	4,630	55,826	69,366	55,986	13,380	<b>\$</b> 34,910 69	\$9,308 07	\$6,879 68	\$51,098 44
Total hand mine bituminous coal	1,715,418	965,595	2,263,243	4,944,256	2,899,365	2,044,891	\$3,090,087 31	\$910,951 49	\$462,592 19	\$4,463,630 99

# RECAPITULATION.

Showing Total Production and Wages of Indiana Mines for 1904.

TOTAL PRODUCTION OF BLOCK COAL.

		MACHINE	MINED.			Ріск 1	Mined.		DISTRIE	BUTION.		WAG	sks.	
	Tons of Screened Coal.	Tons of Slack and Nut Coal.	Tons of Mine- Run Coal.	Total Tons of all Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut Coal.	Tons of Mine- Run Coal.	Total Tons of all Kinds of Coal Produced.	Indiana.	Other States.	Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages Paid.
Total production block machine mines Total production block pick mines	74,698	11,807		86,505	62,886 451,839	11,814 99,857	11,171	74,700 565,867	<b>2</b> 7,161 281,297	134,044 284,570	\$125,982 96 523,907 80	, ,	\$44,019 21 96,749 83	
Total block coal	74,698	11,807		86,505	517,725	111,671	11,171	<b>64</b> 0,567	308,458	418,614	\$649,890 76	<b>\$</b> 294,396 53	\$140,769 04	\$1,085,056 3 <b>3</b>
				T	OTAL PI	RODUCT	ION OE	BITUMI	nous co	AL.	,			
Total bituminous machine mines Total bituminous pick mines	1,297,597	828,616	1,373,456	3,499,669	299,228 1,715,418	113,589 965,595		'	2,097,083 2,899,365	' '	\$2,125,055 56 3,090,087 31	\$948,151 09 910,951 49	, ,	\$3,616,717 06 4,463,680 99
Total bitumi- nous coal	1,297,597	828,616	1,373,456	3,499,669	2,014,646	1,082,184	2,548,833	5,645,663	4,996,448	4,148,884	\$5,215,142 87	\$1,859,102 58	\$1,006,10260	\$8,080,348 05
Total machined coal	1,372,295	840,423	1,373,456	3,586,174				, .	2,124,244 3,180,662			\$1,043,191 38 1,110,307 73		\$3,881,759 52 <b>5,28</b> 3,644 86
Grand total	3,904,666	2,034,278	3,933,460	9,872,404					II <del></del>		II <del></del>			<b>\$</b> 9,165,404 38

# TABLE,

Showing Comparative Statement of Coal Produced, Wages Paid and Number of Employes for 1903 and 1904.

	1903.	1904.	Decrease of 1904 Under 1903.	Increase of 1904 Over 1903.
Total tonnage produced	\$9.149,572 12	9,872,404 \$9,165,404 38 17,838	120,149	\$15,832 26 2,710

TABLE

Showing Number of Miners, Machine Runners and Helpers, Loaders, Inside Day and Monthly Men, Persons Employed Outside; Total Number of Employes at Each Mine, Number of Days Worked and Number of Mules Used; Totals by Counties, Expenditure for Improvements.

CLAY COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men	Total Employes.	Days Worked.	Mules Used.	Fatal Accidents.	Improvements.
Grazil Block No. 1 Grazil Block No. 8 Diamond No. 5. lart No. 7 art No. 10 continental No. 1 cloverland No. 1 cloverland No. 2 awrence No. 6 awrence No. 6 awrence No. 7 air View oornwall rawford No. 2 rawford No. 5 rawford No. 5 rawford No. 6 crawford No. 7 cloverland No. 3 crawford No. 6 crawford No. 6 crawford No. 6 crawford No. 7 clordyke clifford No. 1 clifford No. 1 clifford No. 1 clifford No. 2 clifford No. 1 clifford No. 2 clifford No. 1 clifford No. 2 clifford No. 1 clifford No. 1 clifford No. 1 clifford No. 2 clifford No. 1 clifford No. 2 clifford No. 1 clifford No. 2 clifford No. 2 clifford No. 2 clifford No. 2 clifford No. 3 clifford No. 2 clifford No. 3 clifford No. 2 clifford No. 2 clifford No. 2 clifford No. 3 clifford No. 3 clifford No. 3 clifford No. 3 clifford No. 4	9 23 24 96 26 26 38 41 118 62 46 55 7 32 31 44 32 65 37 97 97 97 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20		11 11 10 18 30 17	12 20 70 12 6 10 34 9 6 11 7 5 8 15 7 4 8 8 14 4 56 0 21 20 9 0	687065655675745656497382876	39 68 49 126 61 49 57 167 76 58 83 71 46 40 57 102 41 34 44 92 92 183 88 40 128 58	285 193 174 185 207 78 239 194 165 81 201 116 221 113 103 24 78 78 77 170 150 143 170 181 183 183 183 183 184 185 185 185 185 185 185 185 185 185 185	5547423343733225222418852882	1	\$876 86 1,250 00
vivian No. 5 rawford No. 8	6 50	6	21	5	6	43 44 62	215 203 152	3		300 00 300 00

# Showing Number of Miners, Machine Runners and Helpers, Etc.—Continued. CLAY COUNTY—Continued.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Fatal Accidents.	Improvements.
Lower Vein No. 1. Crawford No. 9. Brazil No. 4. Glenn No. 2. Gold Knob World's Fair Crawford No. 4. Buperior No. 4. Island Valley No. 4.	40 31 57 17 28 27 24	88	20	10 4 21 2 14 6 8 8	. 5 16 4 11 4 5 6	55 40 94 23 53 40 38 44	242 72 76 66 131 99 47 114 97	2 2 3 1 3 2 2 2 4	1	3,427 75 2,681 69
Total	1,529	72	178	470	253	2,502	5,536	184	. 3	\$8,835 80
	DAV	TESS C	OUNTY.							
Cabel No. 9.  Montgomery No. 2  Montgomery No. 3  Mutual  Union  Mandabach	15 110 60 19			16 2 28 11 4 2	7 2 12 7 2 3	78 19 150 78 25 17	45 39 217 209 164 228	3 3 16 9 2 2		\$1,115 10
Total	271			63	33	367	902	35		\$1,115 00
	FOUL	MIAT	COUNTY	7.						
Rush	. 45 26			11 6	7 6	63 38	222 238	3 3		\$305 00 450 00
Total	. 71			17	13	101	460	6		\$755 OO

# GIBSON COUNTY.

Massy	 44			21 10 2	13 5 3	85 59 19	156 176 21	5	 \$5,515 98 500 00 50 00
Total	 109	·····	·····	33	21	163	<b>35</b> 3	18	 \$6,065 98

# GREENE COUNTY.

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Island No. 1 Island No. 2 Island No. 3	t.)		54 73 70 70		60 24 38	38 50 47 19	9 12 14 10	171 171 197 99	146 204 172 150	/ 14 19 17 9	1	
Hoosier No. 1. Hoosier No. 2. Island Valley No. 2. Island Valley No. 3. South Linten. Midland			20 20 99 130 2		06 26 16 16	52 15 5 6 30 31 25	16 4 6 10 13 9	200 51 31 58 142 170 99	144 215 40 74 130 142 116	22 4 2 3 16 17		\$856 67
Vulcan Summit No. 2 Templeton Victoria Glenburn Antioch			30 52 204 47 81 21	18	92 56	55 13 45 48 31 12	6 8 9 16 15 13	40 179 74 265 176 125	61 186 248 241 174 212 148	20 7 18 20 10 5	i	7,001 06
Green Valley. Lattis Creek No. 1 Atlas No. 1 Atlas No. 2 Fry Letainger		_	17 20 40 31	18 18 18 4	100 90 16	30 50 45 9 5	12 21 12 8 3 4	160 206 185 77 39 38	135 211 122 159 130	13 16 18 3	1	252 00 540 00
Twin. (Not reported.) North Linton Pennsylvania			15 60 20 1,183	10 208		37 13 5 726	12 9 6 277	144 82 31 3,304	160 170 19 3,908	9 7 2 282		90 40 800 00 810,049 13

# KNOX COUNTY.

and the second s										
NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Fatal Accidents.	Improvements.
Ricknell.  Knox  Jynn Tospect Hill Enterprise  Wheatland  Tine Knot		8 2	4	13 12 12 4 5 5	10 9 10 4 5 6 14	70 84 72 25 40 43 34	160 84 136 25 53 159 26	7 7 6 3 2 2 1	2	\$3,200 00 1,250 00 2,081 40
Total	227	10	13	60	58	368	643	28	2	\$6,531 40
·	PA	RKE CO	UNTY.						,	
Brazil Block No. 12.  Jox No. 3.  Jucia.  New Century.  Jyrord No. 1.  Mary  McIntosh No. 3.  Juperior No. 1.  Juperior No. 2.  Juperior No. 3.  Juperior No. 3.  Juperior No. 1.  Juperior No. 1.  Juperior No. 1.  Juperior No. 1.  Juperior No. 3.  Juperior No. 3.  Juperior No. 3.  Juperior No. 3.  Juperior No. 1.  Juperior No. 2.  Juperior No. 3.  Juperior No. 1.  Juperior No. 3.  Juperior No. 1.  Juperior No. 3.  Juperior No. 1.  Juperior No. 1.  Juperior No. 2.  Juperior No. 3.  Juperior No. 1.  Juperior No. 3.  Juperior No. 1.  Juperior No. 2.  Juperior No. 2.  Juperior No. 2.  Juperior No. 2.  Juperior No. 3.  Juperior No. 2.  Juperior No. 3.  Juperior No. 2.  Juperior No. 2.  Juperior No. 2.  Juperior No. 3.  Juperior No. 2.  Juperior No. 3.  Juperior No. 3.  Juperior No. 2.  Juperior No. 2	45 52 20 9 29 148 105 66 130 17 135 81 32 30 13 42		32 81	29 21 17 15 25 5 16 50 5 23 33 9 15 6 14	9 12 5 6 12 10 4 8 8 12 6 11 4 13 9 9 9 3	98 101 67 73 110 94 38 187 152 88 191 26 171 123 46 108 222 157	203 191 188 65 195 142 55 183 194 202 239 159 178 24 178 87	10 9 12 11 9 8 2 10 12 5 19 10 4 7 7	1	\$350 00
V. P. Harrison (No mine hoss report.)	1	1	<b></b> .		l	l	l	l	I	

# PERRY COUNTY.

Troy	16		.: <b></b>	3	3	22	164	2		
Total	16			3	3	22	164			
	PII	KE COU	NTY.			•		•		
Aberdeen Ayrshire No. 3 Ayrshire No. 4 Ayrshire No. 5 Blackburn Littles Rogers. (No mine boss report) Hartwell Petersburg Carbon Winslow No. 2 Winslow No. 5 Winslow No. 3. (No mine boss report) Ayrshire No. 6. (Idle; no report)	13 60 115 33 50 122 98 40 18 50 30			20 28 5 14 36 20 16 6 8 8	3 7 10 5 7 12 13 7 4 72 6	19 87 153 43 71 170 131 63 28 130 44	77 77 165 40 38 144 181 21 135 9 66	3 15 12 3 10 13 12 6	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$145 00 313 87 1,035 02 1,032 35 325 00 1,338 62 \$4,189 86
	SULL	IVAN (	COUNTY	7.						
Bunker Hill Caladonia Dugger Green Hill Hymera No. 1 New Linton Jackson Hill No. 2 Phoenix No. 1 Phoenix No. 3 Shelburn Star City White Ash Freeman Sun Flower Glendoria Hymera No. 2 Wilfred No. 1	18 16 8 44 8 47 15 38 37	6 12 8 6 6 14 6 18 8 8	23 95 34 35 104 114 107 12 	222 357 177 200 533 134 31 4 8 433 100 9 288 377 287 477	30 15 15 11 19 5 17 15 4 9 23 6 6 11 24 18	99 173 66 80 234 46 176 113 23 34 140 54 52 147 204 190	207 222 93 130 46 231 171 90 62 108 147 175 186 179 158 174	9 10 7 9 15 19 11 11 12 5 4 12 12 15 15 11 12	1 1 1 1	\$640 00 1,621 67 426 14 519 00

# Showing Number of Miners, Machine Runners and Helpers, Etc.—Continued. SULLIVAN COUNTY—Continued.

	TLIVAN	00011	1-001	unueu.						
NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Fatal Accidents.	Improvements.
Island No. 4.  Mammoth Vein Little Giant Cummins. La Blanche. Gitzens. Bruilettes Creek No. 6. Mildred. Virginia. Superior Shirley Hill St. Clair Jackson Hill No. 4. Hymera No. 3 Kettle Creek Reliance. (New mine. No report.) Phoenix No. 4. (New mine. No report.) Union No. 1	42 2 11 46 9 14 26 43	10 10 10 10 10 12 4 4 10 18 18 10 6 6	50 53 13 51 19 18 85 34 12 85 13	10 18 20 20 22 24 9 9 8 16 7 7 13 21 33 9	6 15 10 10 19 6 6 8 12 6 6 11 9 19	42 93 93 95 106 44 61 53 145 56 68 84 160 30	191 216 213 159 159 233 240 113 190 114 164 £2 107 128 117 38	3 4 4 8 8 6 2 2 3 3 6 6 2 2 3 5 5 2 10 2 2	2	3,689 51
Total	509	276	1,379	660	395	3,219	4,694	226	8	\$6,896 32
	ANDE	RBURG	H COUN	TY.						
Diamond First Avenue Ingleside Sunnyside Union Unity Total	22 25 65 30 95	4	4	7 5 6 20 7 19	7 6 5 10 7 12 47	51 33 44 95 44 126	261 224 221 141 205 262 1,314	2 3 14 4 13		

59 54	00 90 90	
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63 07 <b>50</b>	65 62	
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TABLE OF EMPLOYEES.

Maple Valley No. 2. (No report)         40         7         8         55         24	3 113	158 24 1,945	24	158	24	  3 5	103	5	;   ·   ·   ·		i <u></u>				051	 ::  ::  ::	 	 		rt)	repor	No r	port) I 2. (N	o rep lo. 1 lo. 2	(No ley N ley N	side. Vall Vall	hode liver: laple laple lucke
Atherton	8 1 6 17 9 16 6 50 225 77 10 16 12 4 4 12 9 2 6 6 6 4 4 4 4 3 3 2 2 4 218	247 49 210 168 184 69 20 191 215 215 216 179 237 129 173 246 220 209 240 209 240 265 162 97	247 49 210 168 184 69 20 191 215 185 210 179 237 129 173 246 220 240 209 240 202 265 162 97	247 49 49 49 1068 184 69 20 191 215 71 185 2210 179 1229 173 2246 2200 2202 2205 162 97	247 49 210 188 184 69 20 20 191 2157 185 210 179 237 129 173 246 220 209 240 202 225 265 166 97	6352485417059638472195971	16 53 185 102 214 68 45 204 181 67 100 215 169 213 34 77 102 81 65 79 61	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		26 129 1115 12159 100 106 51135 878 57777	24 130 190 155 8 50 50 15 22 10 23 51 11 15 16 10 8 11 55	3	3	28 28 10	12 34 133 74 173 42 42 29 43 75 177 50 41 172 24 102 25 88 80 45 31 49 45 45 45 45 45 45 45 45 45 45 45 45 45				 ort.).	герој	No	ne.	w mir	1.	1 0 0 0 0 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1	Work go No sss h h h yke i No. 10 rd ud No. 1 er hurse i Voin. ffield freek co. 2 i No. 2 i No. 2	crick hica hica ceric awto nion crant clen ( lecto cose b cose b cose cose cose cose cose cose cose cose

# Showing Number of Miners, Machine Runners and Helpers, Etc.—Continued.

#### WARRICK COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Fatal Accidents.	Improvements.
Air Line Big Four. Big Vein No. 3 Chandler De Forrest. Star No. 1 Electric. Star No. 2. (Burke.).  Total Grand Total	40 23 102	12 18 8 4 12 54 760	46 51 8 10 50 —————————————————————————————————	16 12 3 3 3 9 17 4 - 68 3,449	4 12 9 6 3 8 12 6 	35 94 91 25 20 57 91 33 449 17,838	92 167 206 60 115 195 243 142 1,220 29,641	4 9 6 2 2 8 8 6 3 40	34	\$1,316 55 510 00 1,000 00 1,428 94 \$4,255 49 \$74,230 83

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# STRIKES AND OTHER LABOR CONDITIONS.

Numerous strikes of a local character have occurred throughout the State during the past year, which have affected only individual mines, with but three exceptions. These were of such short duration as to require no special mention.

One of the exceptions referred to was a strike of the drivers at the Indiana Bituminous Coal Company's Fairview Mine, located near Turner, in Clay County. The mule barns here are about one mile distant from the mine, and the drivers thought it was not a part of their day's work to bring the mules from these barns to the mine before working hours in the morning (7 o'clock). They refused to conform with the rules of the mine, and this resulted in a strike June 7th. Since that time the mine has not been in operation.

A strike occurred August 1st at the Coal Bluff Mining Company's Harrison No. 3 Mine. This was caused by the miners refusing the company permission to drive nothing but entries during the dull season. The reason given by the company for asking such permission was on account of the small demand for coal just at that time. They could not dispose of the product of the entire mine, and thought by driving nothing but narrow work they could increase the number of working places, thereby employing a larger force of miners and increasing the capacity of the mine when the market demanded it later in the season. Work was resumed after the mine had been idle about four weeks, but it was not learned on what terms a settlement was made.

On April 1st a strike occurred at the Knox Mine, located near Bicknell, in Knox County. The trouble here was caused by a difference between the operators and miners as to the time when shot firing should begin. Prior to this the time for firing shots had been 3:15 o'clock p. m., but as a new contract took effect on the above date, the company insisted on 3:30 as firing time. The miners demanded a continuance of the previous conditions, and after an idleness of five months the company conceded their demand and operations were again resumed at the mine.

The national joint convention of operators and United Mine Workers of America was held in Indianapolis during the month of February, at which time a contract was agreed upon whereby the miners accepted a reduction of 5 cents per ton on the price paid for pick mining and a proportionate reduction in the wages of machine miners and all other labor in and around the mines. This reduction took effect on April 1st, and the contract covers a period of two years, extending from April 1, 1904, to March 31, 1906. Considerable dissatisfaction on the part of the miners was expressed at the time the settlement was made, but after the situation had been thoroughly explained to them and matters made plain, the wisdom and energy displayed by the national and State officers in securing so favorable a contract in the face of a falling market was commended in every part of the State, and at the State conventions held in Terre Haute and Brazil in the following month of March the contract was ratified without hesitation.

We give herewith copies of the Terre Haute and Brazil agreements, made by the miners of District 11, representing the bituminous field, all the miners of District 8, representing the block coal field:

#### TERRE HAUTE AGREEMENT.

### APRIL 1, 1903, TO MARCH 31, 1904.

Pursuant to an agreement made between the coal operators and the United Mine Workers of America of Illinois, Indiana, Ohio and Pennsylvania, made at Indianapolis, Indiana, March 21, 1904, the price of mining for bituminous coal in the State of Indiana shall be 85 cents per ton of 2,000 pounds for screened lump coal, made over a standard screen, and 52 cents per ton of 2,000 pounds for run-of-mine. That further details in the scale of prices for pick and machine mining in the State of Indiana for one year, beginning April 1, 1904, shall be as follows:

The standard height of coal in Indiana shall be 3 feet 6 inches, excepting in mines already opened, where the standard height shall be 3 feet 3 inches. All coal less than 3 feet 3 inches in thickness and over 2 feet 9 inches, the price shall be 93 cents per ton for screened lump coal, and 57 cents per ton for mine run coal. All coal less than 2 feet 9 inches and down to 2 feet 6 inches, the price shall be \$1.01 per ton for screened lump coal and 62 cents per ton for mine-run coal.

Narrow entries 7 to 9 feet wide, \$1.76% per yard.

Wide entries 12 feet wide, \$1.10 per yard.

Wide entries shall not be more than 13 feet nor less than 11 feet. In the event of a 10 or 11 foot entry being demanded by the operator, narrow entry prices shall be paid, if 14, 15, 16 or 17 foot entries are demanded the wide price shall be paid.

The right of the operators to drive an 18-foot room when necessary shall not be questioned.

#### BREAK THROUGHS.

Break throughs between entries shall be paid for at entry prices. Break throughs between rooms, when sheared or blocked, shall be paid for at entry prices, but no break throughs shall be driven without consent of the operators. Nothing herein shall interfere with the law governing break throughs.

#### ROOM TURNING.

Room turning, \$4.25. Room necks to be driven 12 feet in and widened at an angle of 45 degrees when so desired by the operator. Any distance in excess of above shall be paid for proportionately, but no room neck shall exceed 15 feet. When room necks are driven 12 feet wide, the price shall be \$8 of regular price, \$2.65%.

#### MACHINE MINING. .

In entries 7 to 9 feet wide, \$1.26½. In entries 12 feet wide, % of price of narrow entries, or \$0.78%. Narrow work after punching machine shall be sheared when demanded by the operator. Narrow work after the chain machine must be done in a workmanlike manner.

#### BREAK THROUGHS.

Break throughs between entries, same as entry prices. Break throughs between rooms shall be paid for at the same price when similarly driven.

#### ROOM TURNING.

Room turning, \$3.18%. Room necks to be driven 12 feet in and widened at an angle of 45 degrees when so desired by operators. Any distance in excess of above shall be paid for proportionately, but no room neck shall exceed 15 feet. When room necks are driven 12 feet wide, prices shall be % of regular price, or \$1.98%.

#### DAY WORK FOR PUNCHING MACHINE.

Machine work, when paid for by the day, shall be: For machine runner, \$2.99½; helper, \$2.42.

#### DAY WORK, CHAIN OR CUTTER BAR MACHINE.

When paid for by the day, shall be: For machine runner, \$2.841/4; helper, \$2.841/4. Day work for machines shall apply only to opening new mines and defective work, such as horse backs, etc.

PRICE PER TON FOR MACHINE MINING FOR PUNCHING MACHINE.

Vandalia track and north thereof:

Screened Lump.—Runner, 10% cents; helper, 9% cents; loading, shooting and timbering, 46% cents. Total, 67 cents.

Run of Mine.—Runner, 7 cents; helper, 6½ cents; loading, shooting and timbering, 28½ cents. Total, 42 cents.

South of Vandalia track:

Screened Lump.—Runner, 9% cents; helper, 8 13-20 cents; loading, shooting and timbering, 48 6-10 cents. Total, 67 cents.

Run of Mine.—Runner, 6 7-40 cents; helper, 5 27-40 cents; loading, shooting and timbering, 30 3-20 cents. Total, 42 cents.

#### FOR CHAIN MACHINE.

Screened Lump.—Runner, 5% cents; helper, 5% cents; loading, shooting and timbering, 52 cents. Total, 63% cents.

Run of Mine.—Runner, 3% cents; helper, 3% cents; loading, shooting and timbering, 32¼ cents. Total, 39½ cents.

Machine shovels shall be furnished by the operators, but when replaced the old shovels must be returned, and in case of careless breaking or destruction, the helper shall pay for the shovel so destroyed.

#### BLACKSMITHING.

Price of blacksmithing shall be 1¼ cents on the dollar. Sharpening shall be done in workmanlike manner and men shall not have to wait for their tools.

#### DAY LABOR.

Inside day labor shall not be less than \$2.42 per day of eight hours, when men are emlpoyed. And for outside day labor on the north of the B. & O. S. W. the minimum price shall be \$1.91\(\frac{1}{2}\) per day. South of the B. & O. S. W. the price shall be 19\(\frac{1}{2}\) cents per hour.

All outside day laborers working at the mines, excepting weighmasters, flat trimmer and dumper, who shall be regarded strictly as company men, shall be recognized as members of the United Mine Workers of America, and present conditions and hours of labor shall prevail during the existence of this contract; and provided further, that in emergencies or in the absence of any regular employe the right of the operator to employ men not members of the United Mine Workers of America for outside day labor shall not be questioned. Any and all flat trimmers shall dock for dirty coal.

#### DEAD WORK.

- 1. It is agreed that the companies shall have the working places as dry as local conditions will permit, and said working places shall be in working condition at time of starting work in the morning. If any company shall fail to have said working places dry or reasonably so one hour after starting time two successive days, the company shall, if said failure is traceable to neglect or carelessness of the company's agent, give miner or miners so affected other work or pay him or them for time so lost.
- 2. The question of slate in or over the coal shall be and is regarded a local question to be taken up and adjusted by the methods provided in

the annual Terre Haute agreement for settlement of disputes: Provided, however, that established usages and prevailing conditions shall not be changed except in new mines where they have not been considered and adjusted.

3. Where bottom coal is excessively hard to take up, theoperator shall have the option. If he demands that it be taken up he shall pay extra therefor. Provided, that where coal so left shall exceed four inches in thickness it shall be taken up by the loaders and paid for by the machine men, but this shall not apply when caused by sulphur, boulders, rock or any unusual condition. And whenever there shall arise a dispute between any loader and boss, or committee and boss, as to whether the bottom coal in any room is "excessively hard" the company interested shall select a man who shall take up one-third of such bottom coal, and if by such test it requires more than forty minutes to take up all the bottom coal in such room, then the loader shall be paid at the rate of 30 cents per hour for such time so required in excess of forty minutes. This is to apply to the No. 4 vein of Linton coal.

#### GENERAL.

- 1. When the coal is paid for mine run, it shall be mined in as good condition as when paid for on a screened lump basis, and, when loaded on the miner's car, it shall, as nearly as possible, be free from slate, bone coal, or other impurities, and, if it can be shown that any miner persistently violates the letter or spirit of this clause, he shall be discharged. Persistently, as used in this clause, means three cars the first week and two cars in any succeeding week. Nor shall he load an undue proportion of fine coal in any one car, but shall see that the fine coal is mixed with the large coal in such a way as to make a fair quality of mine run coal. This provision for cleaning coal and penalty for failure also applies to screened lump coal.
- 2. The semi-monthly pay shall continue until the constitutionality of the law providing for weekly pay shall have been passed upon by the Supreme Courts of Indiana and of the United States.
- 3. The time of beginning work in the morning and the length of intermission at noon shall be considered a local question.
- 4. That the above scale is based upon an eight hour work day; that it is definitely understood that this shall mean eight hours work at the face, exclusive of the noon time, six days in the week, or forty-eight (48) hours in the week, and that no local ruling shall in any way deviate from this agreement, or impose conditions affecting the same, but any class of day labor may be paid at the option of the operator for the number of hours and fraction thereof actually worked at the hour rate, based on one-eighth of the scale rate per day; provided, that when men go into the mine in the morning they shall be entitled to two hours' pay whether the mine works or not, excepting in event of a mine being closed down by action of any member or members of the U. M. W. of A., the two hours' pay shall be forfeited.

#### REGARDING DRIVERS.

They shall take their mules to and from the stables, and the time required in so doing shall not include any part of the day's labor, their work beginning when they reach the change at which they receive empty cars, but in no case shall a driver's time be docked while he is waiting for such cars at the point named.

- 5. Inside day work may be done upon idle days, and in case of emergency on overtime.
- 6. It is agreed that if any difference arises between the operators and miners at any time, a settlement shall be arrived at without stopping the work. If the parties immediately affected can not reach an agreement themselves, the question shall be referred without delay to a board of arbitration constituted of two operators, selected by the operator interested, and two miners selected by the local union of the United Mine Workers of America involved. In the event of these four being unable to reach a decision, they shall select a fifth man, and the decision of the board so constituted shall be final, but no miner or operator directly interested in the differences shall be a member of such board. Nothing in the above shall be construed as excluding officers of the miners' or operators' associations, nor mine superintendents.
- 7. The duties of the mine committee shall be confined to the adjustment of disputes between the mine boss or superintendent and any of the members of the United Mine Workers of America, working in and around the mines, except as hereinafter set forth in Article No. 16. In case they fail to agree, they shall proceed to adjust the trouble by the selection of an arbitration board as provided in Article 6 of this agreement. The mine committee shall have no other authority, nor exercise any other control, nor in any way interfere with the operation of the mine, and, for violation of this agreement, the committee or any other member thereof or mine boss or superintendent, shall be discharged.
- 8. That under no circumstances will the operators recognize or treat with a mine committee or any representative of the United Mine Workers of America, during the suspension of work, contrary to this agreement.
- 9. The operator shall have the privilege of working a night shift for cutting coal with machines. All men so employed shall be paid 28 cents extra for each eight hours' work at night, in addition to the scale price per ton.
- 10. Work on driving entries and drawing pillars may be by double shift at the option of the operator.
- 11. This contract shall in no case be set aside because of any rules of any local union of the U. M. W. of A. Nor shall there be any rules made controlling or affecting the operation of the mines, nor shall any change be made in accepted rules without the operators and miners first consulting and agreeing thereto.
- 12. Coal may be dumped as slowly as the operator may find necessary to thoroughly screen it, even if the car is brought to a stop, but it shall not be dumped in such a way as to throw the coal over the car door or unnecessarily break it.
  - 13. Any miner knowing his place to be unsafe, shall protect same

without delay and shall go into the mine for that purpose outside of regular hours and on idle days.

14. No restriction shall be placed on the amount of coal which machines may mine, nor on the number of cars that any miner may load in any specified time.

Men shall work double in wide entries at option of operator in developing the mine or for running entries for the purpose of increasing production.

Enough extra loaders shall be emlpoyed in each mine so that the full complement of loaders agreed upon to follow each machine shall be at work every day that the mine hoists coal.

Where three places are now given to two loaders the custom shall continue.

No more than three places for two men nor two places for one man shall be allowed. In mines where the coal averages 6 feet high or over, rooms 30 feet wide or over equipped with two tracks shall be considered double places, and two loaders may be limited to two such places.

In Sullivan County where men work double in two rooms 25 to 30 feet wide, with track up to the center, the custom shall continue.

Whenever a new mine is opened it shall be governed by the same rules existing in other contiguous mines in the same vein of coal.

- 15. The price of powder per keg shall be \$1.75. The miners agree to purchase the powder from their operators, provided it is furnished of standard grade and quality, that to be determined by the operators and expert miners jointly where there is a difference.
- 16. Engineers shall be paid the present rate of wages, minus 5.55 per cent. Eight hours shall constitute a day's work. But the engineers shall, outside of regular hours, hoist and lower the men, and in addition shall perform all the duties which necessarily and usually pertain and belong to an engineer's position, and shall not receive any extra pay therefor. It is agreed further that no noisting engineer shall be subjected to the interference or dictates of the mine committee nor the local unions, but all the differences between the engineer and his employer shall be adjusted by the officers of the U. M. W. of A. and employer interested.
- 17. The prices now paid firemen and blacksmiths, together with the present condition of employment and hours of labor, shall continue during the existence of this contract. Less 5.55 per cent.
- 18. It is further agreed that the operators shall offer no objection to the check-off for the check-weighman and for dues for the U. M. W. of A., provided, that no check-off shall be made against any person until he shall have first given his consent in writing to his employer. This applies to all day work as well as miners.

#### SHOT FIRERS.

Present conditions as to shot firers shall continue until a commission composed of one miner, to be selected by the United Mine Workers of America of District No. 11, one operator, to be selected by the Bituminous Coal Operators' Association of Indiana, and Prof. Robert Thurston, of Cornell College, an expert engineer shall be appointed.

Such commission shall, as soon as possible, examine the so-called dan-

gerous pick mines in the State of Indiana, and decide whether or not it is necessary to employ shot firers in any of said mines, on account of gas, dust or other causes beyond the control of either miners or operators, the present methods of mining not to be considered as being beyond control.

If a majority of such commission shall decide that it is necessary that shot firers be employed in any mine and shall sign a report to that effect, then shot firers may be employed by the miners in such mine, who shall pay them for their services, and such shot firers shall be wholly in the employ of the miners and in no manner whatever to be the agents, servants or employes of the owners, operators or managers of the mine.

The owner or operator of any mine where the commission decides that it is necessary that shot firers be employed and where they are so employed by the miners, shall pay to the local union an amount of money equivalent to one-fourth (1/4) cent per ton of mine run, or two-fifths (%) cent per ton of screened lump coal of the output of said mine.

It being agreed and understood that such payment to the local union shall not directly or indirectly be considered as or construed to be a payment by the owner or operator of any part or portion of the services rendered by shot firers for the miners.

It being further expressly agreed and understood that in any mine where shot firers are employed that the relation of master and servant shall exist wholly between the miners and the shot firers, and that such relation shall not obtain as between the owner or operator of the mine and the shot firers.

The expenses of such commission shall be borne equally by the United Mine Workers of America of District No. 11, and the Bituminous Coal Operators' Association of Indiana, except that the Operators' Association shall alone bear the expenses occasioned by the appointment and services of the expert engineer.

In behalf of the Indiana Bituminous Coal Operators' Association:

J. C. KOLSEM, President.

P. H. PENNA, Secretary. United Mine Workers of America, District No. 11:

GEO. HARGRAVE, President.

J. H. KENNEDY, Secretary.

AGREEMENT BETWEEN THE BLOCK COAL OPERATORS AND THE UNITED MINE WORKERS OF AMERICA, DISTRICT No. 8, FROM APRIL 1, 1904, TO APRIL 1, 1906.

#### CONTRACT.

### PICK MINING SCALE FOR 1904-1906.

Contract between the operators, miners and day laborers of the Brazil Block Coal District, from April 1, 1904, to April 1, 1906.

- 1. Entered into this first day of April, 1904, between the Operators' Scale Committee of the Block Coal District, and the Executive Board of the United Mine Workers of America, representing District No. 8.
  - 2. Pursuant to a contract made between the Coal Operators and the

United Mine Workers of America, of Indiana, Illinois, Ohio and Pennsylvania, made at Indianapolis, Ind., March 21, 1904.

- 3. The price for mining screened block coal in the Block Coal District of Indiana shall be ninety-five (95) cents per ton of 2,000 lbs., it being understood also that the price for digging unscreened coal shall be an equivalent of the price paid for screened coal.
- 4. That further details in the scale prices for pick mining in the Block Coal District shall be as follows:
  - 5. The payment for low coal shall be upon the following scale:
- 6. For all coal two feet ten inches, and under three feet one inch, one dollar (\$1.00) per ton.
- 7. For all coal under two feet ten inches, one dollar and five cents (\$1.05) per ton.

8. The price of yardage shall be as follows:		
Single yardage in coal 3 ft. 1 in. or over	<b>\$</b> 0	95
Double yardage in coal 3 ft. 1 in. or over	1	90
Gob entries in coal 3 ft. 1 in. or over	1	421/2
Gob entries in coal 3 ft. 1 in. or over, without brushing.		471/2
Single yardage in coal 2 ft. 10 in. and under 3 ft. 1 in	1	00
Double yardage in coal 2 ft. 10 in. and under 3 ft. 1 in	2	00
Gob entries in coal 2 ft. 10 in. and under 3 ft. 1 in	1	<b>5</b> 0
Gob entries in coal 2 ft. 10 in. and under 3 ft. 1 in., with-		
out brushing		<b>50</b>
Single yardage in coal below 2 ft. 10 in	1	05
Double yardage in coal below 2 ft. 10 in	<b>2</b>	10
	1	$57\frac{1}{2}$
Gob entries in coal below 2 ft. 10 in., without brushing.		$52\frac{1}{2}$

All entries to be driven, when required by the operator, 5½ feet in the clear in height, and the miners agree to gob the dirt, when he is not required to take it more than the distance of six rooms back from the last breakthrough, and when the dirt is hauled by a mule, then the miners agree to unload the same at a distance of not more than eight rooms back from the last breakthrough, from the face of the entry. This agreement shall apply to all the block coal mines in the Block Coal District, with the exception of the present No. 1 and No. 2 Superior Mines of the Zellar, McClellan & Co., and in these two mines the same conditions shall continue as were in force during the year just ending, viz.: The miners shall continue to gob the breakthroughs. Twenty-five cents per yard shall be paid for all double yardage, when the same is worked double shift, and 12½ cents per yard for all single yardage, when the same is worked double shift at the option of the operator.

9. Inside day scale:

Track layers\$2	42
Track layers' helpers 2	42
Trappers 1	$06\frac{1}{2}$
Bottom cagers 2	42
Drivers 2	42
Trip riders 2	42
Water haulers 2	<b>42</b>

Timberman, where such are employed	2 42
Pipemen, for compressed air plants	2 371/2
All other inside day labor	
Blacksmiths	2 69.36
All outside day labor shall receive	1 911/4

- 10. The firemen and night pumpers shall be paid at the rate of twenty-three and nine-tenths (23 9-10) cents per hour for their labor. The above wage is based on an eight (8) hour work day, but in the event the operator desires it, the firemen and night pumpers are to work overtime to the extent of not more than two hours, in any one day or shift. However, it is understood that in the event of an emergency the firemen and night pumpers will not limit their time, but continue working until such emergency is past.
- 11. The firemen and night pumpers shall be subject to the same rules and regulations as the top men, and be in their class, and may be laid off in case the mine shall work only parts of days, and the work of the firemen and the top men, may be interchanged if it is found to be to the interest of the employer so to do, for example: Where the work can be performed by one man, the firing and any other work about the top shall be done by any one of the top men selected.
- 12. Where a miner is working a deficient place, and is being paid by the day, his pay shall be \$2.42 per day, and if he uses his own tools during such time, he shall be paid ten cents per day for the use of same. The operator shall have the option of furnishing the tools for any such work.
  - 13. The price of blacksmithing shall be 11/2 cents on the dollar.
- 14. Semi-monthly pay shall continue until the constitutionality of the law providing for weekly pay, shall have been passed upon by the Supreme Courts of Indiana, and of the United States.
- 15. The miner shall not be compelled to load his coal more than six feet from the face, at the beginning time.
- 16. Inside day work may be done upon idle days, and in the case of emergency on overtime.
- 17. The hour to begin work in the morning shall be seven (7) a. m., with thirty minutes stop for dinner, and begin shooting at 3:30 o'clock p. m., from April 1, 1904 and 1905, to October 1, 1904 and 1905, and from October 1, 1904 and 1905, to April 1, 1905 and 1906, the mines shall start at 7:30 a. m. with thirty minutes stop for dinner, and begin shooting at 4:00 p. m., and that no shooting shall be done at the mine except by mutual consent between the bank boss and the bank committee, and in the event that the mine is to work a half day, it shall be the duty of the mine boss to notify the bank committee of the fact.
- 18. That eight hours a day means eight hours' work in the mine at the usual working places, for all classes of inside workmen. This shall be exclusive of the time required in reaching said working places in the morning, and departing from the same at night.
- 19. The miners hereby agree to do all the propping in their rooms, except setting of props required to break the bottom in shooting the same, and if any props are loosened or displaced, thereby endangering the safety of the workmen, the miners agree to reset the same.

- 20. It is also agreed on the part of the operators not to require the miners to put down their own road, and bottom shooters may lay the road in the rooms when required.
- 21. Also, to give each miner as near as possible an equal turn of cars, and not allow any day hands to load coal on idle days.
- 22. No miner shall be discharged or discriminated against because of his refusal to do work by the day when called upon by the pit boss.
- 23. It is also agreed not to require miners to load or clean falls unless they are caused by some fault of the miner not properly timbering his working place, or his having shot or otherwise caused his timber to become insecure, in which case it will be the duty of the miner to put his place in good order again.
- 24. It is further agreed that if any difference arise between the operator and miner at any pit, settlement shall be arrived at without stopping of work. If the parties immediately affected can not reach an adjustment between themselves, the question shall be referred to the Executive Board of the United Mine Workers of America, representing District No. 8, and an equal number of operators, whose actions shall be final, but no miner nor operator interested in the differences shall be a member of said committee.
- 25. The duties of the mine committee shall be confined to the adjustment of disputes between the mine boss or superintendent and any of the members of the United Mine Workers of America, except the engineer, working in and around the mines.
- 26. Regarding Drivers: They shall take their mules to and from the stables, and the time required in so doing shall not include any part of the day's labor. Their work beginning when they reach the parting at which they receive empty cars, and in no case shall the drivers' time be docked while he is waiting for said cars at point named, but when the men go into the mine in the morning, they shall be entitled to two hours' pay, whether or not the mine works the full two hours, but after the first two hours, the men shall be paid for every hour thereafter, by the hour or for each hour's work, or fractional part thereof. If for any reason the regular routine of work can not be furnished inside labor for a portion of the first two hours, the operators may furnish other than the regular labor for the unexpired time.
- 27. That under no circumstances will the operators recognize or treat with a mine committee or any representative of the United Mine Workers of America, during the suspension of work contrary to this agreement.
- 28. The Block Coal District of Indiana may continue the use of the diamond bar screen, the screen to be seventy-two (72) feet superficial area, of uniform size, one and one-quarter (1½) inches between the bars, free from obstructions, and that such screen shall rest upon a sufficient number of bearings to hold the bars in proper position.
- 29. It is hereby further agreed that track layers may begin work on top before the usual time of hoisting coal, in getting track material read to send down on the cage, and that the time required in doing so, shall be a part of the eight hours' work.
- 30. In case of emergency work, the mine boss shal' consult with the mine committee, and if they approve of the work being done on over-

time, the men engaged thereon shall not be required to lay off until their time is equalized with the others working in said mine.

- 31. The Crawford Coal Company in their mines at Center Point may continue to do the brushing in the entries where the coal is 3 feet 1 inch and under in thickness.
- 32. On and after April 1, 1904, until April 1, 1906, the scale of hoisting engineers throughout the Block Coal District, or District No. 8, shall be as follows: Where one engineer is employed, the compensation shall be seventy-nine dollars and sixty-eight and one-half cents (\$79.68½) per month. Where two engineers are required, the first engineer shall receive seventy-nine dollars and sixty-eight and one-half cents (\$79.68½) per month, the second sixty-nine dollars and six cents (\$69.06) per month, and when they change week about, seventy-four dollars and thirty-seven and one-fourth cents (\$74.37½) per month.
- 33. It is agreed on the part of the engineers to be at their work in time to lower the men and mules, and remain a sufficient time after the regular working hour to hoist the men and mules from the mine. Also to keep up all repairs on the machinery, including pumps in the mine.
- 34. It is also mutually agreed that a licensed engineer shall be employed at all times when steam is required at the throttle: provided, however, that in all cases where the mine is not hoisting coal, or the machines are not operated, then, and in all such cases, the engineers are required to do their own firing, it being understood that this provision does not apply to any case where the work of the mine may be stopped in the midst of any one shift. Nor does it cover any case where the fireman is required to assist in the washing or cleaning out the boilers on Sunday.
- 35. It is also fully understood and agreed upon the part of the United Mine Workers of America, that the engineers will not under any circumstances allow affiliation with any labor organization to interfere with or prevent their being on duty at any and all times required by the operators, and that they will not suspend work in sympathy with any organization; and further, that they will during the continuance of this contract at all times fully protect all the company's property under their care, and that they will operate fans and pumps, and lower or hoist such men or supplies as may be required to protect the company's property, and any and all coal that may be required to keep up steam at the company's plant. But it is understood that the operators will not ask them during this period to hoist any coal produced by non-union labor for sale on the market.
- 36. No engineer shall lay off or exchange shifts without the consent of the operators.
- 37. It is also agreed that in case of sickness or unexpected absence of the engineer any other engineer or engineers shall perform his duty; and if desired by them his wages for time so absent shall revert to the engineer performing such duty.
- 38. It is further agreed no hoisting engineer shall be subject to the interference or dictation of the mine committee nor the local unions, but all differences between the engineer and his employer shall be adjusted by the officers of the United Mine Workers of America and employer interested.

- 39. It is also agreed upon the part of the operators that they will enforce a rule forbidding the entering of the engine room by loafers and disinterested parties, and that they will have cards printed and placed in conspicuous places to this effect.
- 40. This contract is entered into in good faith by both parties, and there is to be no deviation from it by the operators, miners, laborers or any local unions.

Committee on behalf of the Operators for the Block Coal District:

JAS. H. McCLELLAND.
M. H. JOHNSON.
W. E. EPPERT.
WM. M. ZELLER.
A. H. ZIMMERMAN.
HUGH MASON.
JAS. J. BUCKLIN.

Executive Committee, District No. 8, United Mine Workers of America, for Block Coal Miners:

WM. HOUSTON, Pres. Dist. 8. JOHN S. BENNETT, Vice-Pres.

WM. TREAGER, Secy.-Treas. THOS. SLATER. ROBERT GIVENS.

#### CONTRACT.

#### MACHINE MINING SCALE FOR 1904-1908.

Contract between the Machine Operators of the Block Coal District and the Executive Board, District No. 8, United Mine Workers of America, governing prices and conditions of mining in Machine Mines Block Coal District, from April 1, 1904, to April 1, 1906.

- 1. Entered into this first day of April, 1904, between the Operators Machine Mines of the Block Coal District and the Executive Board of the United Mine Workers of America, representing District No. 8.
- 2. Pursuant to a contract made between the Coal Operators and the United Mine Workers of America of Illinois, Indiana, Ohio and Pennsylvania, made at Indianapolis, March 21, 1904.
- 3. The price for loading, shooting, timbering, taking care of all draw slate that is rour (4) inches and under in thickness, in rooms and entries, shall be forty-nine and three-fourths (49%) cents per ton.

Price for entry driving, 6 to 9 feet wide, forty-nine and three-fourths (49%) cents per yard.

Price for entry driving, 9 to 12 feet wide, thirty and three-fourths (30%) cents per yard.

The loader agrees to keep the bug dust and draw slate back 14 feet from the working face.

All entries more than twelve feet in width shall be paid same as rooms. Machine runners and helpers to be paid twenty-three and three-fourths (23%) cents per ton, and when working by the day, machine runner to be paid \$2.86% per day; helpers, \$2.55 per day; motormen to receive \$2.86% per day.

Entry driving, 6 to 9 feet wide, machine runner to be paid twenty-three and three-fourths (23%) cents per yard.

Entry driving, 9 to 12 feet wide, machine runner to be paid fifteen (15) cents per yard.

It is further agreed that where there is not sufficient room to gob the bug dust and draw slate, the loader will load it in the bank cars, and the company will unload it.

It is understood that there shall be nothing paid for room turning or low coal, and there shall be nothing charged for blacksmithing.

There shall be no discrimination against any employes.

That the system of loading coal in machine mines be on the following basis, to wit:

- 1. That one man shall have the right to two places where he can take care of the same.
- 2. That two men shall have the right to three places where they can take care of the same.
  - 3. All others one place.

When a man is off work more than one day, the mine boss shall have the right to put a man in the places if it is necessary, providing the man leaves the places in the same condition, as near as possible, as he found them.

The Block Coal District of Indiana may continue the use of the diamond bar screen, the screen to be seventy-two (72) feet superficial area, of uniform size, one and one-quarter (14) inches between the bars, free from obstructions, and that such screen shall rest upon a sufficient number of bearings to hold the bars in proper position.

This agreement to become a part of the agreement entered into on the 1st day of April, 1904, between the Operators' Scale Committee of the Block Coal District, and the Executive Board of the United Mine Workers of America, representing District No. 8.

On behalf of the Machine Operators of the Block Coal District:

OTTER CREEK COAL CO., A. H. ZIMMERMAN, Supt.

BRAZIL BLOCK COAL CO.,
JAS. H. McCLELLAND, President.

On behalf of the Executive Board, District No. 8, United Mine Workers of America:

WM. HOUSTON, President.
JOHN S. BENNETT, Vice-Pres.
WM. TREAGER, Secy.-Treas.
THOS SLATER.
ROBERT GIVENS.

# TABLE

Showing by Counties the Number of Miners, Number of Inside Day and Monthly Men, Number of Outside Day and Monthly Men Employed; Total Wages Earned by Same and Average Wages Earned Per Employe, Both for the Block and Bituminous Mines.

# BLOCK COAL MINES.

BITUMINOUS MINES.   S29   \$338,875 83   \$408 77   223   \$144,949 17   \$649 99   \$110   \$77,284 91   \$702	COUNTY.	Number of Miners.	Total Wages of Miners.	Average Wages Per Miner.	Number of Inside Day and Monthly Men.	Total Wages of Inside Day and Monthly Men.	Average Earnings Day and Monthly Men.	Outside Employes.	Total Wages Outside Employes.	Average Earnings Outside Employes.
Clay			\$345,411 28 304,479 48						\$8,265 80 58,112 24	\$570 95 818 48
Greene         2,301         1,273,133         50         503         29         725         405,037         624         61         95         2/7         246,113         73         896           Knox         250         87,275         24         349         10         60         24,193         82         403         23         58         20,663         74         39         18         726         34         79         34,392         39         688         20,663         74         39         18         726         34         79         34,392         39         688         72,688         78         246         250         3         1,268         78         427         246         32         58         20,663         74         39         128         689         22         462         50         3         1,268         78         427         246         48         20         39         1,288         56         37         39,649         67         575         22         395         235,998         19         597         29         76         22         395         235,998         19         597         29         76         22 <td< td=""><td></td><td>]</td><td>BITUMINOU</td><td>S MINI</td><td>ES</td><td></td><td></td><td></td><td></td><td></td></td<>		]	BITUMINOU	S MINI	ES					
	Fountain. Gibson. Greene. Knox. Parke Perry. Pike. Sullivan. Vanderburgh Vermillion.	71 109 2,301 250 645 16, 629 2,164 2,82 1,051 2,040	97,715 02 41,265 30 54,358 05 1,273,133 65 87,275 24 309,182 10 5,303 11 197,213 30 822,099 13 148,985 65 677,311 11	360 57 581 20 498 69 553 29 349 10 471 54 331 31 311 94 379 88 528 31 644 44 495 70	17 33 726 60 177 3 164 660 64 235 512	30,398 12 11,934 58 21,714 43 465,057 62 24,193 82 22,562 13 1,387 52 68,069 26 379,649 07 46,801 82 181,088 35 318,727 98	482 50 702 03 658 01 641 95 403 23 726 34 462 50 415 05 576 22 731 27 770 58 622 51	33 13 217 277 58 79 3 146 395 47 92 226	18,384 98 7,192 44 14,009 76 246,113 73 20,663 74 54,392 39 1,268 78 32,825 67 235,998 19 39,123 71 72,649 79 161,947 59	\$702 59 557 12 553 26 667 13 895 27 688 51 422 82 224 82 224 786 832 41 789 707 10 404 01

# TABLE.

#### MACHINE MINING.

Exhibiting by Counties the Names of Mines in Which Machine Mining is Carried On; Geological Number of Coal Seam Mined; Average Number and Kind of Machines in Use; Number of Miners Employed, Total Tons of Coal Produced, Average Tons Per Miner and Average Tons Per Machine Produced and the Number of Days the Machines Were Operated.

# BLOCK COAL MINES.

### CLAY COUNTY.

	MACH	inds o	F Jsed.	Mine	ced.	s loyed.	Міпег.	hine.
MINE.	Geological Num- ber of Seam.	Electric Chain.	Compressed Air Puncher.	Number of Days Was Operated.	Total Tons Produced	Number of Miners Employed.	Average Tons Per	Average Tons Per Machine.
Brazil Block No. 1 Brazil Block No. 8 Diamond No. 5. Gart No. 10.  Total general average	IV III IV III	2 3 1 3 9		285 193 60 52 590	8,707 ,12,933 3,319 4,864 29,853	12 20 11 17 60	725 646 340 286 497	4,351 4,311 3,349 2,432 3,317

#### PARKE COUNTY.

Brazil Block No. 12	IV	6 7	 203 142	<b>26,308</b> 30,344	38 50	694 606	4,384 4,334
Total general average		13	 345	56,642	88	644	4,357

### BITUMINOUS MINES.

### CLAY COUNTY.

# MACHINE MINING-Continued.

# GREENE COUNTY.

	MACH	INDS O	F Sed.	Mine	ced.	Miners Employed.	Average Tons Per Miner.	Average Tons Per Machine.	
	П.	i	Air		Total Tons Produced	finer	Рег	Per Mac	
MINE.	al Ni	Electric Chain.	sed A	of D	DB P	of M	rons	Ton	
	ogical	irie (	prese	ber 18 Op	To.	ber	98.6	989	
	Geological Number of Seam.	Elec	Compressed Puncher.	Number of Days Was Operated.	Tota	Number	Атег	Атег	
Twin Black Creek. Island No. 1. Island No. 2. Gilmour Hoosier No. 1. Hoosier No. 2. Midland Island Valley No. 2. Summit No. 2. Glenburn	iv-v Iv	4 5	*	146	80,99 <b>3</b> 72,801	60		14 560	
Island No. 1	İŸ		6 14	204 172	52,529 81,251 98,108	70 36 66 112	1,040 1,431 1,231 875	14,560 8,754 5,803 12,263	
Gilmour	IV IV V	8 3 2 6		144 215	98,108 43,248	112 32 20	875 1,351	12,263 14,416 5,767	
Hoosier No. 2 Midland	III	6	4	116	43,248 11,535 54,174	20 62 24	1,351 576 837	9.029	
Summit No. 2		9	4 	137 186	18,469 98,242	190	769 818 858	4,617 10,915 11,332	
Tower Hill	ŤŤ	5		174 148 135	56,662 44,794 113,833	66 51 117	878 972	8,958 12,648	
Lattas Creek No.1	ĪŸ	9 8		211 122	184,132 128,782	118 108	878 972 1,560 1,192	20,459 16,097	
Green Valley Lattas Creek No.1 Atlas No.1 Atlas No.2 Letsinger. North Western.	IV IV IV IV IV	55998345		119	5,820 9,252	20 28	330	1,940 2,313	
	IV			160	80,246	80	1,003	16,045	
Total general average		85	34	2,429	1,234,871	1,190	1,037	14,529	
*Not reported.									
	KN	OX C	UNTY	r. 					
Enterprise	VI VI		4 *	53	2,859	12	238	712	
Total general average			4	53	2,859	12	238	712	
*New mine, tonnage not repo	orted.								
	PAR	KE C	OUNT	Υ.					
Lyford No. 1 Parke No. 11 Mecca No. 3	VI VI III	6 4	ii	195 178 189	59,177 62,559 54,966	53 54 -39	1,110 1,158 1,438	9,862 5,687 13,741	
Total general average		10	11	562	176,702	146	1,217	8,414	
					1				
SULLIVAN COUNTY.									
Bunker Hill Caladonia Dugger Green Hill Hymera No. 1 New Linton Jackson Hill No. 2 Phoenix Nos. 1 and 3 Shelburn	VI VI	3 12		207 222	34,426 85,228	29 79	1,187 1,078	11,442 7,102	
Green Hill	VI	3 7	<u>.</u>	130	23,975	41	658		
New Linton	VI III? VI VI	3 18		231 171	24,975 43,823 30,973 126,993	118 20 125	371 1,522 1,015	8,991 6,260 10,324 7,055	
Phoenix Nos. 1 and 3	vi	2	4	108	32,672 15,902	20 17	1,655 935	8,084 7,951	
			,					. ,	

# MACHINE MINING-Continued.

### SULLIVAN COUNTY-Continued.

VIrginia.       VI         Sus Flower       VI         Glandoria.       VI         Hymera No. 2       V         Wilfred No. 1       VI         Reliance       VI         Mammoth Vein       VI         Little Giant       VI         Cummins       VII         La Blanche       VI         St. Clair       VI	8 10 9	6 8 10	Compressed Air Puncher.	Number of Days Was Operated.	Total Tons Produced.	Number of Miners Employed.	Average Tons Per Miner.	Average Tons Per Machine.
Virginia.         VI           Sus Flower         VI           Glendoria.         VI           Hymera No. 2.         V           Wilfred No. 1         VI           Reliance         VI           Mammoth Vein.         VI           Little Giant.         VI           Cummins.         VII           La Blanche         VI           St. Clair         VI	8 10 9	 8 10						<del>.</del>
VI	55 65 625	8 5 5 6 2 5 <b>4</b>	5	158 190 183 * 93 213 213 159 233 107 128 117 38 190 * 240	139,459 128,592 154,530 132,005 58,950 67,780 13,932 91,265 19,185 2,780 40,701 960 37,925	108 143 141 112 60 63 23 63 44 18 97 17 28 *	3,143 912 1,096 1,179 982 1,075 605 1,448 236 154 417 56 1,454 417 56 1,454 931	17,307 12,859 17,170 16,500 * 11,790 13,550 2,786 15,210 3,837 480 7,645 * 4,421

<sup>\*</sup>Not reported.

### VANDERBURGH COUNTY.

InglesideSunnyside	*	2	44	1,636	. 8	204	618
Total general average	 	2	44	1,636	8	204	618

<sup>\*</sup>Machines taken out.

### VIGO COUNTY.

Atherton	VI VI VI	6 7 5	14	213 215 179 70 38	90,088 101,587 113,269 3,796 10,484	61 87 51 16 24 8	1,640 1,167 2,219 236 436	15,014 14,512 8,085 758 2,096
Total general average		22	19	715	319,224	267	1,195	7,785

<sup>\*</sup>Not reported.

### WARRICK COUNTY.

Big Four Big Vein No. 3 De Forrest Electric	$\mathbf{v}$	6	6 9 2	167 206 115 243	62,705 94,566 11,463 97,442	58 69 14 62	1,081 1,371 818 1,571	10,450 10,507 5,731 16,240
Total general average		6	17	731	266,176	203	1,311	11,138

TABLE

Showing Price Paid Per Ton for Pick and Machine Mining, Inside Day Labor, Total Number of Employes, Total Tons of Coal Produced, Total Wages Paid Employes, Wages Earned Per Year Per Employe and Per Cent. of Gain or Loss in Price Per Ton for Each Year from 1890 to 1904, Inclusive.

	В	ock Minin	G.		inous Mi	NING.	. <b>-</b> u	-ro-	Em-	[ear	rice sed-	ice sced-
YEAR.	Price Paid for Pick Mining Screened Coal.	Price Paid for Chain Machine Mining Screened Coal.	Price Paid for Pick Mining Screened Coal.	Price Paid for Chain Machine Mining Mine Run Coal.	Price Paid for Punching Machine Mining Mine Run Coal.	Wages Paid Inside Day Labor.	Total Number of Er	Total Tons of Coal F duced.	Total Wages Paid E ployes.	Wages Earned per I per Employe.	Per Cent. Gain in P. per Ton Over Prec ing Year.	Per Cent. Loss in Pr per Ton Under Pr ing Year.
1890 1891 1892 1892 1893 1894 1894 1895 1896 1897 1899 1900 1901 1901 1902 1904	\$0 75 75 75 75 75 76 76 76 76 90 90 1 00	\$0 57 57 68 3 68 3 68 3 78 3 73 3	\$0 70 70 70 70 65 60 60 51 66 66 66 80 80 80 80	\$0 36 <sup>1</sup> / <sub>2</sub> 36 <sup>1</sup> / <sub>2</sub> 39 <sup>1</sup> / <sub>2</sub>	\$0 34\\\23\\23\\23\\23\\23\\23\\23\\23\\23\	\$1 871/2 1 871/2 1 90 1 90 1 75 1 75 1 75 1 75 2 25 2 30 2 2 56 2 42	6,550 6,975 7,600 7,431 7,885 7,112 7,984 7,366 8,858 12,096 13,139 15,128 17,888	3,791,211 3,819,600 4,408,471 4,358,897 4,202,084 4,068,124 4,068,120 5,140,920 5,839,713 6,283,063 7,019,203 8,763,197 9,992,553 9,872,404	\$1,852,500 00 1,750,000 00 1,600,000 00 1,182,500 00 3,813,652 39 4,843,343 26 5,680,539 86 7,978,918 12 9,149,572 12 9,165,404 38	\$234 93 246 06 200 40 517 73 546 77 469 62 538 77 608 81 528 63	29 <del>1/2</del> 21 <del>2/2</del> 12 <del>1/2</del>	7 <del>1</del> 7 <del>1</del> 5 15

<sup>\*</sup> Not reported.

Above prices are taken from the yearly contracts made between the opertors and miners, and only from mines where organized labor was employed.

The per cent. of increase and decrease is based on pick mining. Prior to 1898 chain machine mining was done either by the day or by the cut, hence no scale of prices per ton was obtainable.

# EXAMINATIONS.

Examinations of applicants for certificates of competency to serve as Mine Boss, Fire Boss and Hoisting Engineer were held at Terre Haute March 15, 16 and 17, and August 25, 26 and 27.

The examinations were written and partly oral. The following table gives the names and addresses of those receiving certificates, also the number of the certificate:

MINE BOSS	EXAMINATION	HELD MARCH	15, 16 and 17, 1904.

Name.	4.1.	No. of
	Address.	Certificate.
	Sullivan	
	Hymera	
William R. Hilgedick	Linton,	4
	Terre Haute	
	Clinton	
	Linton	
	Hymera	
	Coal Bluff	
John Johnson	Coal Bluff	16
Robert Monkhouse, Jr	Coal Bluff	90
A. T. Potter	Linton	10
	. Linton	
Lon Shaw	Sullivan	9
J. A. Richardson	Farmersburg	2
	Seeleyville	
	Linton	
	Terre Haute	
	Lyford	
	Brazil	
	Brazil	
	Wa-hington	
	Sullivan	
	Diamond	
	Clay City	
	Coal Bluff	
	Brazil	
,	··	· · · · ·

### HOISTING ENGINEER EXAMINATION, MARCH 15, 16 and 17, 1904.

. W	4 * *	No. of
Name.	Address.	Certificate.
Jackson Wyeth	Terre Haute	
Irwin D. Johnson	Edwards	77
Ed. Williams	Washington	20
Frank Garlinghouse	Clinton	78
Olney White	Dugger	41
C. B. Rouse	Sullivan	38
W. A. Heaton	Rosedale	57
W. E. Eslinger	Shelburn	27
George W. Chambers	Clinton	
W. G. Woods	Terre Haute	
T. N. Jean	Linton	
William Sutton	· · · · · · · · · · · · · · · · · · ·	
Hubert Parr	Fontanet	96
John O. White	Bridgeton	
C. A. Dillahunt		
John W. Cable	Shelburn	51

Name.	Address.	No. of Certificate.
W. A. Pope	Linton	
Louis Lyday		
M. L. Ramsford		
Lawrence T. Hicks	Evansville	
Howard S. Brown	Bridgeton	
Henry F. Ward	Edwardsport	
Henry Miller	Dugger	
John D. Britton	Brazil	
-		
		-
MINE BOSS EXAMINATION	HELD AUGUST 25, 26	3 AND 27, 1904—Continued.
Name.	Addresses.	No. of Certificate
W. F. Azbell		
Adam Purvis		
John Randoll		
Wm. Babbitt		
Harry Antibus		
Arthur Thompson		
Thomas Harrop		
Murray Bledsoe	Caledonia	
Samuel Bradshaw		
Wm. C. Keller		
Jas. J. Johnson		
John Thomas		
M. A. Pell		
John Holden		
Stephen Adams		
John Bennie		
Frank Morris		
H.S. Bonham		
Edward Cole		
Louis Dablemont		
M. M. Sweeding		
Geo. Sildamridge		
Richard L. Anderson		
HOISTING ENGINEER EXA	MINATION HELD AU	GUST 25, 26 AND 27, 1904.
Name.	Addresses.	No. of Certificate.
Chas. W. Miller		
Wm. G. Spears		
James Williams		
Picket P. Connett		
John B. Hosenohr	Terre Haute	
		•
MINE BOSS EXAMINA	TION HELD AUGUST	25. 26 AND 27. 1904
	•	
Name.	Addresses.	No. of Certificate.
John Haag		
D. W. Griffiths		
W. J. Winterbottom		
David Owens		
William R. Risher		
J. H. Needhammer		
William White		
John Mainey		
John Blackwell		
George Geatches		
H. C. Kasameyere		
LODD M LOWER	LOGATITIA	

Name.	Address.	No. of Certificate.
Neal Watts	Brazil	
James Sidell	Atherton	
H. E. Wilson	Burnett	
Walter P. Lambert	Jasonville	87
	Fontanet	
	Burnett	
C. A. Landine	Perth	
I V Quetin	Farnsworth	
	Brazil	
	Sullivan	
Edward G. Lewis	Burnett	62
FIRE BOSS EXA	MINATION HELD AUGUST 25,	26 AND 27, 1904.
Name.	Addresses.	No. of Certificate
Dave Murdock	Linton	98
Thomas Harron	Dugger	
HOISTING ENGINEER	EXAMINATION HELD AUGU	ST 25, 26 AND 27, 1904.
Name.	Address.	No. of Certificate.
M. S. Smith	AddressBurnett	
Judge Williams		
Oscar Schalatter	Harmony	
	Brazil	
Ray Lyday		
George M. Hubble		
	Sullivan	
	Jasouville	
Will C. Witt	Bicknell	
W. R. Maddex	Linton	
	Farmersburg	
	St. Marys	
	Farmsworth	,
	Fort Branch	
	Shelburn	• • • • • • • • • • • • • • • • • • • •
	Linton	
	Fort Branch	
	Terre Haute	
A-akta Walle	Terre naute	60
	Fontanet	
	Delcarbo	
	Terre Haute	
	Dugger	
	Brazil	
Wm. G. Spears	Brazil	

# SERVICE CERTIFICATES.

Seventeen service certificates were granted within the year, as follows: Mine Boss, 11; Fire Boss, 1; Hoisting Engineer, 5. Following will be found the names and addresses of those to whom certificates were issued:

#### MINE BOSS.

Name.	Addresses.	Date.
Chas. A. Gilmon	Alum Cave	March 17
Samuel L. Price	Vincennes	June 1
Wm. E. White	Evansville	June 1
John Brownlee	Terre Haute	June 1
Wm. S. Osborn	Carbon	June 21
Robert Straughn	Rosedale	June 17
Omer Bolinger	Shelburn	July 7
	Corey	
	Cannelsburg	
	Alum Cave	

### FIRE BOSS.

Name.	Address.	,	Date	
William Wilson .	Sullivan		April	21

### HOISTING ENGINEER.

Name.	Addresses.	•	Dat	e.
H. S. Shee	Terre Haute		Dec.	22
Jas. E. Stull			Feb.	29
Ephriam Colbert			Jan.	15
Von O. Lambert	Ehrmandale		Aug.	12

# TABLE,

Showing by Counties Names of Mines, Geological Number of Coal Seams, Thickness of Coal Seams by Feet and Inches, Depth of Coal in Feet, and the Nature of Roof and Floor.

### BLOCK COAL MINES.

### CLAY COUNTY.

NAME OF MINE.	Geological No. of Coal Seam.	Thickness of Coal Seam.	Depth to Coal Seam.	Nature of Roof.	Nature of Floor.
Brazil Block No. 1.  Brazil Block No. 7.  Brazil Block No. 8.  Brazil Block No. 8.  Brazil Block No. 8.  Brazil Block No. 10.  Continental  Reb Stock  Lawrence No. 6.  Lawrence No. 7.  Cornwall  Crawford No. 5.  Crawford No. 6.  Crawford No. 7.  Crawford No. 8.  Lower Vein Block  Crawford No. 9.  Monarch  Dan Davis  Crawford No. 4.  Brazil Block No. 4.  Superior No. 4  Eureka No. 5.  Indiana Block Coal Co.  Crawford No. 2.	IV IV IV III III IV IV IV IV IV IV IV IV	366 366 366 366 366 366 366 366 366 366	101 43 Slope 89 65 67 82 182 186 116 84 86 81 87 90 248	Gray shale Gray shale Gray shale Sand shale Sand shale Sand shale Sand shale Sand shale Gray shale Gray shale Gray shale Gray shale Sand shale Gray shale Blue shale Blue shale Blue shale Blue shale Blue shale Blue shale Gray shale Blue shale Blue shale Gray shale	Sandy under-clay. Sandy under-clay. Sandy under-clay. Light under-clay. Sandy under-clay. Light under-clay. Sandy under-clay. Sandy under-clay. Sandy under-clay. Sandy under-clay. Sandy under-clay. Sandy under-clay. Light under-clay. Sandy under-clay. Sandy under-clay.

### BITUMINOUS MINES

### CLAY COUNTY.

## DAVIESS COUNTY.

NAME OF MINE.	Geological No. of Coal Seam.	Thickness of Coal Seam.	Depth to Coal Seam.	Nature of Roof.	Nature of Floor.
Hoosier. Montgomery No. 2. Montgomery No. 3. Union Mutual Wheatland Mandabach	III V V III VII	3' 7" 3' 8" 3' 8" 3' 6" 5'	50 65 100 50 100 100 56	Sandstone Sandstone Sandstone Sandstone Gray shale Gray shale Black shale	Light under-clay. Bluish under-clay. Bluish under-clay. Bluish under-clay. Light under-clay. White under-clay. Bluish under-clay.

## FOUNTAIN COUNTY.

Rush		l			,
Silverwood					

## GIBSON COUNTY.

Fort Branch	V	5' 6' 10'' 4' 6''	262 450 50	Gray shale	Dark under-clay. Bluish under-clay. Bluish under-clay.
-------------	---	-------------------------	------------------	------------	--

# GREENE COUNTY.

		•			
Black Creek	ıv	4' 8"	l	Gray shale	Sand grit.
Island No.1	ĪV	5,	66	Gray shale	
Pennsylvania Co	ĪĤ	7' 6"	217	Brown shale	Dark under-clay.
Island No. 2	ĪÏĪ VI	5'	95	Gray shale	Sand grit.
Island No. 3	17	5'	72	Gray shale	Sand grit.
Island No. 5	ĪV	5′	55	Gray shale	
Gilmour	ĪV	5' 4''	152	Gray shale	Sandstone.
Hoosler No. 1	ĪV	3' 7"	133	Massive sand-	_* .
		l	۱	stone	Sandstone
Hoosier No. 2	V.	7'	46	Black shale	Bluish under-clay.
Island Valley No. 2	V.	7' 6"	105	Black shale	Bluish under-clay.
Island Valley No. 3	IV	5' 6"	104 104	Gray chale.	Sand grit.
Island Valley No. 4	IV	9.0.	10#	Massive sand- stone	Sandstone.
South Linton	IV	5′	81	Gray shale	Sand grit.
South Linton	ί'n	7'	245	Brown shale	Dark under-clay.
Vulcan	Ϋ́	7'	210	Black shale	Dark under-clay.
Summit No. 2	ΙÙ	5' 6"	150	Gray shale	Sand grit.
Templeton	Ο	5'	52	Gray shale	
Victoria	IV.	5' 8"	122	Gray shale	Sand grit.
Glenburn	IV	4' 6''	102	Gray shale	Sand grit.
Antioch	IV	4' 6"	176	Gray shale	Sand grit.
Tower Hill	III	7′	132	Brown shale	Dark under-clay.
Green Valley	IV	5' 2"	127	Massive sand-	
	***			stone	Sandstone.
Lattis Creek	IV	5' 6"	153	Gray shale	Sandstone.
Atlas No. 1	ĪV ĪV	5'	132	Gray shale	Sand grit.
Atlas No. 2	ĬŸ	3' 7"	128 87	Gray shale Gray shale	
Fry	ΪΪΙ	7' 6"		Brown shale	
Letsinger	iii	7' 6"	217	Brown shale	
North West }	ŧΫ	50	75	Gray shale	
` }	v	6'	56	Black shale	
-Twin	IV	4'	152	Gray shale	
North Linton	īv	4' 2"	68	Gray shale	
		' '			-

# BITUMINOUS MINES-Continued.

# KNOX COUNTY.

		KNU	A COUL	NTY.	
NAME OF MINE.	Geological No. of Coal Seam.	Thickness of Coal Seam.	Depth to Coal Seam.	Nature of Roof.	Nature of Floor.
Knox Bicknel Prospect Hill Enterprise Pine Knot	VI VI VII VI VI	4' 4" 4' 4" 3' 4' 3" 4' 6"	103 92 335 154 210	Brown shale Brown shale Lightgr'y shale Brown shale Brown shale	Dark under-clay. Dark under-clay. White under-clay. Dark under-clay. Dark under-clay.
			CK MI		
Brazil Block No. 12		3' 6" 4' 10" 5' 4' 8' 8" 4' 4' 6"	98 105  108  135 40 64 70 120	Sand shale Sand shale Sand shale Sand shale Sand shale Gray shale Sand shale Sand shale Gray shale	White under-clay. White under-clay. White under-clay. Sandy under-clay. White under-clay. Sandy under-clay. White under-clay. White under-clay. Sandy under-clay.
	В	_	NOUS	MINES.	-
Lyford No. 1	VI VI IV VI III VI III III	6' 6" 6' 6' 4' 6' 4' 6' 5' 5' 5' 5'	102 94 134 150 Drift 166	Brown shale Brown shale Gray shale Brown shale Sand shale Sand shale Sand shale Gray shale Gray shale Gray shale	Dark under-clay. Dark under-clay. Sandy under-clay. Dark under clay. White under-clay. White under-clay. White under-clay. White under-clay. White under-clay. White under-clay.
		PERI	RY COU	NTY	
Lincoln	II	3′.4″ 3′	Slope 50	Massive sand- stone	Sandstone.
		. PIKI	COUN	TY.	-
Aberdeen Ayrehire No. 3 Ayrehire No. 4 Ayrehire No. 5 Ayrehire No. 6 Blackburn Littles Rogers Hartwell Petersburg Carbon Winslow No. 2	V V V V V V V V V V V V V V V V V V V	4' 6" 5' 8" 5' 10" 6' 6" 6' 6" 7' 5' 6' 6"	Slope Drift Slope Slope Drift Slope Slope Drift 52 Slope Slope	Black shale Sand shale Sand shale Black shale	Bluish under-clay. Light under-clay. Light under-clay. Bluish under-clay.

# SULLIVAN COUNTY.

NAME OF MINE.	Geological No. of Coal Seam.	Thickness of Coal Seam.	Depth to Coal Seam.	Nature of Roof.	Nature of Floor.
Phoenix No. 1. Phoenix No. 2. thar City shelburn Bunker Hill Uugger ackson Hill No. 2. ackson Hill No. 4. West Linton Iymera No. 4. Iymera No. 2. aladonia. Freeman White Ash Freen Hill un Flower Hendora. Vilfred No. 1. stand No. 4. dammoth ditteens. Signal City Ittle Giant Lummins Ablanch Ditteens. Gilleres No. 6. dillered Virginia Luperior hirley Hill th. Clair cackson Hill No. 4. Hymera No. 3. cettle Creek Phoenix No. 4. Rollance Lollone Lo	111	777564555465556465555555555555555555555	37 Slope 120 - 120 - 104 - 105 - 106 - 106	Black shale Brown shale	Bluish under-clay. Buish under-clay. Dark under-clay. Buish under-clay. Dark under-clay.
	VA	NDERE	URGH	COUNTY.	- -
Sunnyside. Unity. First Avenue Diamond Union. Ungleside.	V V V V	4' 4' 4' 4' 4'	255 225 265 256 235 235	Black shale Black shale Black shale Black shale Black shale Black shale	Bluish under-clay, Bluish under-clay, Bluish under-clay, Bluish under-clay, Bluish under-clay, Bluish under-clay,
•	v	ERMIL	LION	OUNTY.	
Bruilettes Creek No. 3. Bruilettes Creek No. 5. Prince Eureka (See note). Dak Hill Willow Grove. Crown Hill No. 1. Crown Hill No. 2. Rhodes Maple Valley	VII VII VII VII VII VII VII VIII VIII	4' 8" 6' 10" 4' 10" 5' 4' 10" 6' 6' 5' 6" 5' 6" 6' 6"	149 265 85 130 110 40 176 164 161 151	Black bitum- inous shale Gray shale Black bit. shale Black bit. shale Black bit. shale Brown shale Black bit. shale Brown shale Black bit. shale Black bit. shale Black bit. shale Black bit. shale	Under-clay and shale. Dark under-clay.

### BITUMINOUS MINES-Continued.

#### VIGO COUNTY.

NAME OF MINE.	Geological No. of Coal Seam.	Thickness of Coal Seam.	Depth to Coal Seam.	Nature of Roof.	Nature of Floor.
Atherton  Grick Works  Chicago No. 6  Diamond  eerless  awton  Ghrlich  drant No. 2  dien Oak  lector  Llondike No. 1  diami No. 1  ded Bird  Loosebud No. 2  Loyal No. 1  arimer  Broadhurst  diami No. 2  Leep Vein  reenfield No 1  ost Creek  ugar Creek	A1	6' 9' 4' 4" 7' 6' 6' 6' 6' 6' 7' 6' 6' 6' 6' 6' 6' 4' 4' 4' 7' 6' 6' 5' 4' 4'	165 85 733 54 101 1100 99 120 120 133 Slope 90 103 1103 110 80 50 50 170 120 105 105 105 105 105 105 105 105 105 10	Brown shale Black shale Brown shale Black shale Black shale Brown shale Black shale Black shale Black shale Black shale Brown shale Brown shale Brown shale Brown shale Blue sand shale Blue sand shale Blue sand shale Blue sand shale	Dark under-clay. Bush under-clay. Dark under-clay.

#### WARRICK COUNTY.

Star No. 1	4'4" 100 4'4" 110 5'6" 100 7' Slope 7' 65 7' 37 4' 87	Sand rock Black shale Black shale Black shale Black shale Black shale	Bluish under-clay. Bluish under-clay. Bluish under-clay. Bluish under-clay. Bluish under-clay. Bluish under-clay.
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NOTE 1—The two seams of coal No. VIa and VI are mined together in the Eureka Mine, being separated by a small dirt band of a few inches in thickness.

NOTE 2—The seam mined at the Domestic Block Mine is block coal, this being the only block mine in Vigo County.

NOTE 3—The floor underlying Coal No. IV changes in nature very much in different parts of the field. In the vicinity of Brazil it is a sandy fire clay and is very hard when first mined but weathers in a few weeks to a fine grained plastic mass and is used in the manufacture of hollow brick, sewer pipe and other clay products. In the Linton field it is a hard stand grit resembling very much a mass of sand cemented together with no seams and a total absence of clay. In the Jasonville field it is a hard white massive sandstone, while at the Island No. 4 Mine, near Dugger, in Sullivan County, the formation immediately under the coal for about three feet is a dark gray shale.

# FATALITIES AND INJURIES.

An aggregate of two hundred and forty-seven (247) accidents to mine employes was reported to this office during the year 1904, classed as follows: Fatal, thirty-four (34); serious, one hundred and thirty-two (132), and minors, eighty-one (81). The different causes of the accidents and the occupation of those injured are shown in the two following tables:

TABLE,

Exhibiting the Number of Casualties Arising in Indiana Mines During the Year 1904, and the Different Causes Thereof.

CAUSE OF ACCIDENT.	Fatal.	Serious.	Minor.	Total.
Falling slate Falling coal moke explosion Owder explosions Delayed shots Premature shots Blown out shots Misplaced shots Mine cages Kicked by mule Mine cars Falling down shaft Mining machines Railroad cars Electric shock Miscellaneous Dust explosion Fell off scaffold Doal falling down shaft	1 3 5 6 4 1	39 1 39 1 1 1 3	25 20 4 4 20 2	76 35 38 88 51 11 13 65 55 22 22 66 31
Total	34	132	81	24

TABLE,

Exhibiting the Number of Fatal and Serious Accidents Arising During the Year 1904, the Different Occupations of Persons Injured and Cause of Accident.

	Miners.	Machine Runners.	Loaders.	Drivers.	Jerries.	Track Men.	Timbermen.	Shooters.	Pumpers.	Cagers.	Mine Bosses.	Carpenters.	Flat Trimmers.	Outside Labor.	Sinkers.	Total.
Falling slate Falling coal Smoke explosion Powder explosions Delayed shots Premature shots. Blown-out shots Misplaced shots Dust explosions Mine cages Kicked by mule Mine cars Mining machines Falling down shaft Electric shock Railroad cars Coal falling down shaft Falling off scaffold Total	31 15 2 8 8 5 1 1 3 8  7  2 1 96	3  5	2	7 2 38 47	3	1	3	1 1	1	1  1	1	1 1	1 1	2	1 1	51 153 88 51 11 39 22 22 21 166

## FATAL ACCIDENTS.

The following is a detailed statement of facts and circumstances attending each of the fatal accidents that have taken place in the mines of this State during the year 1904, as established by investigation made either by myself or one of my assistants acting in conjunction with the coroner of the county in which the accidents have occurred; also, some comments on same:

### CLAY COUNTY.

The first mine accident resulting in death occurred on January 13th, in the Collins Coal Company's No. 1 Mine, at about 8:30 o'clock on the morning of the above date. Thomas Welch, a miner, 68 years of age, employed at this mine, was working at the face of his room, when, apparently without warning, a large ironstone boulder (commonly called by miners a nigger head), measuring six feet in length, five feet wide and twelve inches thick, suddenly gave way, falling on him, crushing and injuring him so

that he died a few minutes later. On examination it was found that the boulder had been almost completely imbedded in the roof, with only a small portion of the lower surface visible, showing on a line with the roof, and, being of different formation, also separated it from the strata surrounding it by a glaze or thin coating of coal. It was practically without support, loose and ready to fall when the coal had been mined from under it. This dangerous condition, however, was not noticeable, and would have been very hard to determine either by examining or by sounding the roof; therefore, decedent could not have been aware of the danger he was working in until the rock fell, resulting in his death.

On February 16th Charles Patrick, a miner, 17 years of age, was killed by falling draw slate in the Collins Coal Company's No. 2 Mine. Little was learned at the investigation of this accident other than that deceased was last seen alive at about 11:30 o'clock a. m. of the above date, at which time he informed the driver, who was then pulling a car of coal from his room, that he would load no more coal that day, and as his working place was located some distance from those of his fellow-workmen, no one had occasion to visit him during the day. At about 7:30 o'clock p. m. a searching party found him at the face of his room lying under a piece of draw slate which measured ten feet long, five feet wide and six inches thick. Life had then been extinct for several hours.

On April 13th Allen Payne, a miner, 23 years of age, was instantly killed by a delayed bottom shot in the Lower Vein Block Coal Company's No. 1 Mine. This accident was investigated by Assistant Inspector Thomas, and from evidence given at the investigation it was learned that at firing time (3:25) on the evening of the above date Walter King, a miner, whose working place was near that of the deceased, had two shots ready to fire, one of which was tamped on fuse, the other to be fired by a squib. day man named Wilson also had a bottom shot, which was charged with one and one-half pounds of dynamite, ready to fire in the same room. Arrangements were made that Payne should assist King in firing his shots, they to light one shot each at the same time that Wilson would light the bottom shot. In the hurry and excitement incident to such work Wilson lighted the bottom shot before the others were quite ready, and warned them of the fact. King succeeded in lighting his squib, but deceased failed to light the fuse in the shot he was trying to fire. They then ran to a place of safety, and, after waiting about one minute or so, two shots were heard to explode, which they thought were in King's room. Several other shots were being fired at the same time in this part of the mine, and after results proved that it was one of these that they heard instead of the bottom shot. After hearing the two shots explode they rushed back into the room to fire the one which Payne failed to light, and when decedent had gotten directly over the bottom shot it exploded, killing him instantly and seriously injuring King. Deceased leaves a wife and two children. A conformance to the statute requiring shots to be fired in rotation might have prevented this accident.

#### GREENE COUNTY.

On March 31st Samuel Thorp, assistant mine boss, age 40 years, was crushed by falling slate in the Lattas Creek No. 1 Mine, sustaining internal injuries that resulted in heart failure, of which he died on the night of April 17th.

From evidence given at the investigation of the accident it was learned that on the morning of the 31st deceased had been instructed to take assistance with him and shoot down some slate which had become loose and dangerous on one of the main entries. A hole had been drilled in the slate on the day previous, and his instructions were to charge this hole and fire a shot in the slate. Instead of following instructions, he proceeded to knock out the timbers from under the slate with a sledge hammer, and while so engaged, at about 8 o'clock a. m., a large piece of slate, eight feet wide, thirty feet in length and eight inches thick, suddenly gave way and fell, the outer edge striking him and inflicting injuries as above stated. It was not thought at the time that he was seriously injured, and there is some doubt as to whether his death was due to injuries received from the slatefall or not. He leaves dependent one child.

On June 16th W. L. Haskins, miner, age 32 years, was fatally injured by a blast in the Victoria Mine. At firing time, 3:30 o'clock p. m., of the above date, deceased and another miner named Dority, who was working in the room adjoining that of the deceased, had two shots each charged, ready to fire, all of

Haskins while he made what they both thought was three unsuccessful attempts to ignite the fuse in the shot he was trying to (Later results, however, proved that the fuse had been ignited in one of the three attempts.) After waiting until he thought there was danger from the shots he had previously lighted. Dority called to Haskins, and they ran to a place of safety, where they waited an interim of perhaps three minutes, during which time they heard three shots explode. Haskins then, thinking that he had failed to light his shot, rushed back into his room for the purpose of doing so, and when within ten or twelve feet of it the shot exploded, pieces of coal from it striking and injuring him so badly that he died on the following morning. He leaves as dependents a wife and three children. Two very dangerous practices are exhibited in this accident, viz., the use of fuse in shot firing and that of trying to fire more than one shot at a time. Had the ordinary miners' squibs been used and but one shot fired at a time in rotation, as required by law, the accident would undoubtedly not have happened.

On July 7th Thomas McClelland, miner, age 50 years, was fatally injured by falling down the Glenburn hoisting shaft. the time he met his death deceased was employed as a dirt dumper at the top of the mine, in which capacity he was but temporarily employed, during the time certain repairs were being made in the bottom. His place of work was at what is known as the dirt landing, located about twelve feet above the ground or first landing. He and one other person were employed at this point, their duties being to pull the loaded cars off the cage as they were hoisted, push them to a point some 400 feet distant from the shaft, dump and return the empty cars to the cage. At about 9 o'clock on the morning of the accident they had, as usual, taken a loaded car off the cage and during the interval necessary to return the empty the mine superintendent, wishing to do down into the mine, caused the cage to be lowered. The dumpers, returning with the empty car, not knowing that the cage had been moved, pushed it over into the shaft. McClelland, involuntarily clinging to it, was also pulled into the shaft, falling a distance of about seventy feet, striking the top of the cage and receiving injuries from which he died during the night following. He leaves as dependents a wife and eight children. The superinwhich were tamped on fuse. Arrangements were made that Dority should light his two shots first, then pass through the breakthrough between the two rooms and assist Haskins to fire, they to light one shot each at the same time, thus lighting the four shots in rotation before any one of them would have time to explode. This they proceeded to do, and Dority had lighted both of his shots and one of those in Haskins' room, and was watching tendent, as did others, gave evidence at the investigation that he had called twice to the dumpers notifying them that he intended using the cage, yet the dumper who was working with McClelland testified that they had heard no such order. Be that as it may, the superintendent, knowing the danger of moving the cage under existing conditions, should be censured in not waiting until fully assured that both men had heard his order before causing the cage to be moved.

On December 23d a second fatal accident occurred in this mine, when Raymond Little, driver, age 17 years, and single, was crushed to death beneath a loaded mine car in the Glenburn Mine.

No one witnessed this accident, and little could be learned at the investigation other than when last seen alive decedent was coming out of a cross-entry with a loaded car, riding, by standing with one foot on the drawbar in the front end of the car and the other one on the tail chain. From the fact that the mule was loose from the car and was continuing on its way out of the entry when the accident was reported, it is presumed that the hook in the tail chain, in some way, became detached from the car, thus causing him to fall to the roadway directly in front of it. When found he was lying beneath the car, about the center, life extinct.

On October 25th Starlin Center, miner, age 32 years, single, was almost instantly crushed to death by falling slate in the Island No. 2 Mine. Deceased and several other persons were at work in the morning of the above date cleaning up and constructing a cut-off roadway through an old abandoned room to recover a pair of cross-entries which had caved in. At about 11:30 o'clock a. m. he was loading dirt from along the side of the room pillar, working under a ledge of slate which extended out over the roadway, when suddenly this slate ledge, measuring sixteen feet in length, three feet wide and eighteen inches thick, gave

way, falling on him, crushing him so that death resulted before the slate could be removed, an interim of perhaps five minutes.

On November 1st James Layman, driver, age 17 years, and single, was run over and crushed to death by a loaded mine car in the Black Creek Mine. Deceased was driving a parting team, hauling coal from a double parting on the main entry to the shaft bottom. At about 2:20 o'clock p. m. he was coming out with a trip of three loaded cars, riding on the front end of the first car, when, in some way, he slipped and fell under the car, which passed almost entirely over him, crushing and killing him instantly.

On December 9th a second fatal accident occurred in this mine. Larry Bays, miner, age 23 years, and single, was fatally injured by falling draw slate. There was no one present at the time the accident occurred, and when found by the driver, who had gone into his room to pull a car, at about 1:20 o'clock p. m., he was lying under a large piece of slate, unconscious, in which state he remained until death relieved him, at about 12 o'clock midnight of the same date.

### KNOX COUNTY.

On August 16th George Ballow, age 34 years, and Tollard M. Goldman, age 45 years, sinkers, met their death by falling down an escape shaft which they were sinking for the Enterprise Hill Coal Company. An investigation of this accident was made by Assistant Inspector Thomas, at which time it was learned that the company, in providing a hoisting apparatus to be used in sinking this escape shaft, had converted a traction into a hoisting engine by covering one of the traction wheels with short wooden slats and using it as a winding drum. Ballow and Goldman were working on the night shift, and at about 11 o'clock p. m. of the above date had prepared to descend the shaft and begin their shift. After calling to the engineer, asking if all was right, and receiving an affirmative reply, they stepped into the sinking bucket and signaled him to lower away. The engineer started his engine and had unwound about fifteen feet of rope, when it suddenly slipped from the surface of the drum, thus allowing the bucket, with its human load, to fall about four feet, when the rope was caught by the main shaft of the engine, the sudden jerk

causing the men to lose their hold on the rope, falling to the bottom of the shaft, a distance of about 125 feet, killing them both instantly. Goldman leaves as dependents a wife and six children.

### PARKE COUNTY.

On January 12th Bert Challis, driver, age 23 years, single, was crushed to death by a mine car in the Parke No. 11 Mine. There was no one present immediately at the time of the accident, and little was learned on investigation other than that when decedent was last seen alive he was riding on the front end of a loaded mine car, coming down a very heavy grade without spraggs. It is presumed that the car was running at a high rate of speed, and that he slipped and fell under it. When found he was lying under the car between the axles, life extinct.

### PIKE COUNTY.

On January 13th Joseph Keys, miner, age 50 years, and Willis Hall, also a miner, age 30 years, were fatally burned by an explosion of blasting powder in the Carbon Mine. An investigation of this accident developed the fact that it was brought about by carelessness on the part of one of the decedents seldom exhibited by even those who are the most ignorant in the use and handling of explosives. The point at which the accident occurred was some forty feet from the face of Keys' working place, the location of his powder box, containing two full kegs of powder and one keg which had been partly used. A large hole had been made in the top of this keg, and it had been left standing open. The box also contained a roll of fuse which was thought to be damp. In order to determine this fact Keys took up the fuse and applied his lamp to the powder in the end of it, which ignited and commenced to burn, and while standing almost directly over the box, he cut off a short piece of the fuse, the burning end falling into the open powder keg, exploding the powder and burning him so badly that he died one week later. It was not thought at the time that Hall was fatally injured, yet death resulted two weeks from the date of the accident. Keys leaves as dependents a wife and one child and Hall a wife and three children.

On October 3d two more lives were sacrificed to the use of fuse

in shot firing. David Key, miner, age 49 years, and Evert Botkins, 37 years of age, also a miner, were killed by a blast in the Avrshire No. 3 Mine. With the exception that two lives were lost, this accident is an exact counterpart of that occurring in the Victoria Mine in Greene County; i. e., Key had two shots ready to fire at firing time (3:30 o'clock p. m.), both of which were tamped on fuse, and Botkins was assisting him to fire them, they to light one shot each at the same time. Botkins succeeded in lighting his shot, and, thinking that Kev had done the same, ran out on the entry to a place of safety with him, where they waited until they heard a shot explode. Key then said that he thought he had failed to get his shot lighted, Botkins replying that they had better get back and light it before the smoke got too strong. They then rushed back into the room for the purpose of doing so, and when within about fifteen feet of the shot it exploded, killing Key instantly and injuring Botkins so badly that he died six hours later. Both of the unfortunates leave as dependents a wife and three children each.

On October 26th Louis Mallory, miner, age 30 years, and single, was fatally injured by falling slate in the Ayrshire No. 4 Mine. At the time of the accident he was loading a car of coal from the end of a pillar which he was drawing, when a piece of draw slate suddenly gave way, striking him on the head, inflicting what was thought at that time to be merely a scalp wound. A few days later he took to his bed and was bleeding at the ears. A doctor was called and upon examination it was discovered that he had suffered a basilar fracture of the skull, and that an operation would be necessary to remove the blood clot on his brain. This was done, but Mallory did not recover, and died November 4th.

#### SULLIVAN COUNTY.

March 16th Elmer DeLapp, car greaser, age 15 years, was killed by falling slate in the Wilfred No. 1 Mine. Deceased was not working on the day of the accident, but he had gone down the manway into the mine in the afternoon visiting. Among other places he visited was that of a miner named Treadway, with whom he remained until firing time. Treadway had two shots ready to fire, which deceased insisted on lighting. He finally did

light one, against Treadway's wishes, and was returning to light the remaining one, when a large piece of draw slate, fifteen feet wide, seventeen feet long and from two to four inches thick, fell on him, killing him instantly.

March 16th Fred Cliver, miner, age 19 years, single, was fatally injured by an electric shock in the Sunflower Mine. From evidence given at the investigation of this accident it was learned that at about 9 o'clock on the morning of the accident the wick or cotton in decedent's lamp being nearly exhausted, he had gone into a neighbor's room to get a new one. Failing to get one there, he started out to try elsewhere. In leaving the room his lamp was extinguished, but he continued his way in the dark, and, miscalculating the distance he had traveled, came into contact with a live electric wire located across the entry from the mouth of the room. It is presumed that, being in the dark, he stumbled and fell, his face striking the wire. The contact only lasted from fifteen to thirty seconds, when assistance reached him, yet death resulted from the shock ten minutes later. Two hundred and fifty volts (the maximum electric load carried in this mine) is not considered dangerous to human life, unless the contact continues for a considerable length of time, yet two deaths have occurred in the mines of the State within the past eighteen months where the voltage carried was less than the above number, and in each instance the contact lasted but a few seconds. There should be a law enacted prohibiting the use of naked wires on traveling or haulage roads.

On June 3d Alfred McClelland, driver, age 20 years, was killed by falling slate in the Freeman Mine. At the time of the accident deceased was hauling water. At about 2:45 o'clock p. m. he was going into the mine with an empty water box, riding on the tail chain between the mule and the box, and when passing through a double parting on the main entry a piece of slate, three feet wide, seven feet long and four inches thick, fell on him, crushing his head against an iron rail, death resulting fifteen minutes later.

June 4th Perry Kirkham, miner, age 24 years, was fatally injured by falling slate in the Bruillette's Creek No. 6 Mine. 'He and his buddie were at work at the face of their room on the morning of the above date, loading a car of coal. At the time of the

accident decedent was shoveling coal from under a horse-back or roll, when suddenly, without warning, a large portion of it gave way, falling on him, crushing and injuring him so that he died within a few hours. He leaves as dependents a wife and one child. Considerable negligence on the part of both decedent and his buddie was exhibited in this accident, as they knew the nature of the roof, and that it was dangerous, having sounded and examined it a short time previous to the accident; yet they continued working under it without having first secured it with props or timber.

On May 26th John Griffin, timberman, age 36 years, single, was fatally injured by falling slate in the Jackson Hill No. 2 Mine. Shortly after 7 o'clock on the morning of the above date deceased was at work trying to take down a loose slate shot which had been fired on one of the cross-entries the previous evening. At the time of the accident he was shearing the slate through on one side of the entry for the purpose of loosening it more, so that it could be taken down easily, when suddenly, without warning, a large piece of slate, measuring eight feet wide, thirteen feet long and six inches thick, gave way, falling on him, crushing and injuring him so that he died two hours later.

On July 21st Edward White, driver, age 17 years, single, was instantly killed by being run over with a loaded mine car in the Caledonia Mine. There was no witness to this accident, and little could be learned at the investigation other than that when last seen alive decedent was riding on the front end of a trip of three loaded cars, on his way from a double parting to the shaft bottom. A few minutes later he was found under the front car of the trip, life extinct. The supposition is that he slipped and fell under the car, as there was evidence on the roadway of his having been dragged about seventy-five feet before the trip was stopped.

On September 14th Samuel E. Shepherd, age 26 years, was killed by falling slate in the Union Mine. Deceased and eight other persons were at work on the night shift, shooting up bottom and timbering near the bottom of the shaft, preparatory to laying the double partings. At about 11:15 p. m. they had fired a shot which knocked a couple of props out from under some very loose slate, and were at work clearing away the débris, so that the props could be reset, when a large piece of slate, measuring four feet 48-Geology.

wide, six feet long and twelve inches thick, suddenly gave way and fell, killing Shepherd instantly and seriously injuring two other persons. Deceased leaves a wife and one child.

On October 18th a second fatal accident occurred in the Bruillette's Creek No. 6 Mine, when Mathew Gibson, miner, age 21 years, single, met his death from falling slate. This accident was very similar to that of Kirkham. At about 8:30 o'clock a. m. decedent had gone to visit a fellow-miner named Clark, and while sitting near the face of the latter's room, talking, a large piece of roof of slip formation, which measured eight feet long, two and one-half feet wide and eighteen inches thick, suddenly gave way, falling on him and killing him instantly. Clark testified that he had examined and sounded the rock a short time prior to the accident, and could not detect that it was loose. Roof of this character is very treacherous, and cannot be watched too closely.

#### VERMILLION COUNTY.

On January 9th John Thompson, carpenter, age 51 years, single, met his death by falling down the Crown Hill No. 2 hoisting At the time of the accident (3:30 p. m.) Thompson was at work putting in some guides in the tipple, and was standing on a platform located about thirty-eight feet above the ground or surface landing, when a violent smoke explosion occurred in the mine. So great was the force of the explosion that it extended up into the tipple, causing decedent to lose his footing and fall to the bottom of the shaft, a distance of 193 feet, killing him instantly. From evidence obtained at the investigation of this accident it was learned that at quitting time of the above date there were thirtyfive or forty shots ready to fire, containing in all at least two hundred and fifty, possibly more, pounds of powder. The shot firers commenced firing these shots at 3 o'clock p. m., and in about thirty minutes had completed their work. The last shot fired, however, seamed, making an unusually large amount of flame, and the smoke from so great a number of shots previously fired in so short a time being very dense and hot, ignited from this flame, causing an explosion of such force as to almost wreck the interior of the mine, also tearing out a part of the guides and midwall in the hoisting shaft. The shot firers, although nearly overcome with powder smoke and after-damp, escaped without serious injury.

On November 1st Matt Pugh, shot firer, age 34 years, was fatally burned from the flame of a blown-out shot in the Rhodes Mine. Pugh and one other person were employed to fire the shots in this mine after the miners and other workmen had completed their day's work and quit the mine. It was a custom that each of the shooters would take opposite sides of the shaft, begin firing on the return of the air, and continue lighting shots until they had made a complete circuit of that part of the mine, or until all of the shots had been fired. At about 5 o'clock on the evening of the accident Pugh had fired a number of shots on one of the crossentries, when he came to a room where a shot had been prepared which measured seven feet nine inches, right angles from the drill hole. It was also drilled three feet and five inches past the cutting or loose end, and was charged with four quarts of powder. This shot, when exploded, caused a windy or blown-out shot, the flame of which traveled a distance of one hundred and sixty-three feet down the opposite cross-entry, where deceased had gone for safety, burning him externally and internally, inflicting injuries of which he died three days later in the St. Anthony Hospital at Terre Haute. He leaves as dependents a wife and four children. As shown by the above, this accident was due to an overcharged and misplaced shot and a gross violation of the statute relating to the use of powder and shot firing in mines by two persons, viz., Ante Lathi, the person who prepared the shot, and decedent himself, who had strict orders from the mine manager not to fire any shots that did not conform to statute. Prosecution was filed against Lathi, but he had left the city immediately after the accident and we were unable to secure service on him.

December 30th Robert McCain, driver, aged 24 years, and single, was crushed to death by a trip of loaded mine cars in the Willow Grove Mine. Deceased was employed at the mine as trip rider, his duties being to ride the trip of empty cars in and the loaded one out of the mine. When riding the loaded trip he usually rode on the front end of the first car in the trip, seated on what is termed a shoe, which consisted of a piece of strap iron, one-fourth inch thick and four inches wide, turned at right angles, so as to form two arms eight and twenty inches long, respectively. On the end of the long arm a loop or hook was turned so that it could be hooked over the end of the car. At about 10:40 o'clock

a. m. he was coming out to the shaft with a trip of some eight or ten cars, and when within about one hundred feet of the shaft he in some way fell under the cars and was dragged through under the second one, breaking almost every bone in his body, killing him instantly. There was no one saw him fall, but it is presumed that he caught his foot against an iron roller placed in the center of the track for the purpose of carrying the rope, and was jerked off his seat to the roadway in front of the car.

#### VIGO COUNTY.

On March 4th, at about noon, Robert Cole, top laborer, age 25 years, single, was crushed to death by a railroad car in the yards of the Diamond Mine. At the time of the accident deceased was bringing an empty car down to the tipple, and when nearing the point where he wished to stop it he applied the brake. At that moment the chain connecting the brake rod and beam gave way, thus causing him to lose his footing and fall to the track directly in front of the car, where he was caught by the brake beam and crushed to death instantly.

On March 15th Oscar King, miner, age 20 years, was fatally burned as a result of an explosion of blasting powder in the Grant No. 2 Mine. From evidence obtained at the investigation of this accident it was learned that at about 10 o'clock a. m. of the above date deceased had gone to his powder box for some needed article, and that he had in the box a powder keg containing about eight pounds of powder. The box was also a receptacle for his squib box, mine checks, paper and other articles that make up a miner's equipment. A large hole had been made with a pick in the top of the powder keg, for the purpose of pouring the powder out of it. This hole had been left uncovered, and when deceased raised the lid of the powder box a spark from his lamp fell into the keg, exploding the powder and burning him so badly that he died eight days later. He leaves as dependent a wife.

On September 17th a second fatal accident occurred in this mine, when Charles Powell, miner, age 21 years, was fatally injured by a delayed shot. At firing time (3:30 p. m.), this date, decedent had three shots charged ready to fire, all of which were tamped on fuse. When it came his turn to fire he lighted two of the shots and retreated to a place of safety on the entry, where

he waited until he heard what he thought was two shots explode. After results, however, proved that but one shot had exploded, and that it made two reports, the concussion from the last report being almost equal to the first one. When he heard the two reports decedent rushed back and lighted his remaining shot and was léaving the room, but when about twenty-two feet from the face of the room the unexploded shot that he had previously lighted exploded, pieces of flying coal from it striking and injuring him so that he died four hours later, one more victim as a result of two practices which we have from time to time severely condemned, viz., the use of fuse in shot firing and of trying to fire a number of shots at one time. Deceased leaves a dependent wife.

On October 18th Peter Felor, miner, age 18 years, and single, was fatally injured by being crushed between a loaded mine car and the entry rib in the Diamond Mine. From evidence adduced at the investigation of this accident it was learned that deceased was very anxious to secure a position as mule driver in the mine, and in order that he might learn the work he spent a great deal of his time, when not otherwise engaged, in assisting the driver who hauled coal from him. At about 1:30 o'clock p. m. of the above date he had assisted in gathering a trip of loaded cars, and after having coupled them together he started the mule and attempted to step up on the drawbar, where the driver usually rides, but missed his footing. In order to save himself from being run down by the cars, which were then in motion, he stepped to one side of the roadway, intending to let them pass him. The space, however, between the roadway and the rib was too small to permit the cars to pass him, there being only about nine inches of room. This fact, owing to his excitement, was not noticed by deceased, and he was caught by the car and dragged along the entry rib for several feet before the trip could be stopped. He was crushed through the abdomen and injured otherwise, so that he died about midnight of the same date.

On November 29th John Dreganous, miner, age 42 years, was fatally crushed by falling slate in the Klondyke Mine. At about 10:30 o'clock a. m. he was engaged in mining off some loose coal in the upper bench of his room, working under a piece of loose draw slate five inches thick, when a piece of slate, eleven feet long and five feet wide, suddenly gave way, falling and catching him

on the edge of the lower bench of coal, crushing him through the chest and inflicting injuries of which he died a short time after being brought out of the mine. There was no one present at the time of the accident. An examination of his working place, however, proved that he knew that the slate was loose, as there was evidence of his having tried to pull it down; also, that he resumed work under it without first having secured it with props, notwithstanding the fact that there were a number of props of different lengths on hand.

A summary of the names of persons killed, occupation, date and cause of each death, the name of mine and county in which the fatalities occurred, and the number of persons dependent on those killed is given in the following table:

### SUMMARY OF FATAL CASUALTIES.

## CLAY COUNTY.

Date.	Name.*	Age.	Dependents.	Address.	Occupation.	Cause.	Mine.	Company.
Jan. 13 Feb. 16 April 13.	Thomas Welch Charles Patrick Allen ayne	68 17 23	0 0 5	Brazil Brazil Saline City	Miner Miner Miner	Falling slate Falling slate Delayed shot	Gifford No. 1	Collins Coal Co. Collins Coal Co. Lower Vein Blk. Coal Co.
GREENE COUNTY.								
April 31. June 16. July 7. Oct. 25. Nov. 1. Dec. 9. Dec. 23.	Samuel Thorp W. L. Haskins Thomas McClelland Starlin Center James Layman Larry Bays Raymond Little	40 42 50 32 17 23 17	1 4 9 0 0 0 0	Linton	Asst. mine boss Miner	Palling slate	Lattas Creek No.1 Victoria	Lattas Creek Coal Co. Victoria Coal Co. L. T. Dickerson Coal Co. Island Coal Co. Black Creek Coal Co. Black Creek Coal Co. L. T. Dickerson Coal Co.
,					KNOX	COUNTY.		
Aug. 8	George Ballow Follard Goldman	34 45		Bicknell	Sinker	Fell down sinking shaft	Enterprise	Enterprise Coal Co. Enterprise Coal Co.
PARKE COUNTY								
Jan. 12	Bert Challis	23	0	Rosedale	Driver	Mine car	Parke No. 11	Parke County Coal Co.

### SUMMARY OF FATAL CASUALTIES—Continued.

### PIKE COUNTY.

رر جي Date.	Name.	Age.	Address.	Occupation.	Cause.	Mine.	Company.
Jan. 13 Jan. 13 Oct. 3 Oct. 26	Joseph Keys Willis Hall David Key Evert Botkins. Louis Mallory	30 49	Carbon	Miner	Powder explosion Same accident Delayed shot. Same accident Falling slate	Carbon Carbon Ayrshire No. 3 Ayrshire No. 3 Ayrshire No. 4	Aberdeen Coal Co. Aberdeen Coal Co. Ayrshire Coal Co. Ayrshire Coal Co. Ayrshire Coal Co.
		-		SULLIVA	N COUNTY.		,
March March 16. May 26 June 3 July 21 Sept. 14 Oct. 19	Elmar Delap Fred Cliver John Griffin Alfred McClelland. Edward White Samuel Shepherd. Perry Kirkham Mathew Gibson	36 20 17	Wilfred Dugger Jackson Hill Dugger Caladonia Sullivan In country In country	Miner	Falling slate Electric shock Falling slate Falling slate Mine car Falling slate Falling slate Falling slate Falling slate	Wilfred Sunflower Jackson Hill No. 2 Freeman Caladonia Union Bruilettes No. 6 Bruilettes No. 6	Wilfred Coal Co. Sunflower Coal Co. Jackson Hill Coal Co. Sullivan Coal Co. Sullivan Coal & M. Co. Union Coal Co. Bruilettes Creek Coal Co. Bruilettes Creek Coal Co.
-	,	,		VERMILLI	ON CUONTY.	•	
Jan. 9 Nov. 1 Dec. 30	John Thompson Mat Pugh Robert McClain		Clinton Clinton Clinton		Fell down shaft Smoke explosion Mine car	Crown Hill No.2 Rhodes Willow Grove	Crown Hill Coal Co. J. K. Deering Coal Co. Willow Grove Coal Co.
VIGO COUNTY.							
March 14. March 15. Sept. 17 Oct. 18 Nov. 28		25 20 21 18 42	Heckland 1 Grant Heckland Heckland 2 Ehrmindale	Outside laborer Miner Miner Miner	Fell off R. R. car Powder explosion Delayed shot Crushed, mine car Falling slate	Diamond Grant No. 2. Grant No. 2 Diamond Klondike	Coal Bluff M. Co. Grant Coal & M. Co. Grant Coal & M. Co. Coal Bluff M. Co. Brullettes Creek Coal Co.

# TABLE,

Showing the Nationality of Persons Killed in and Around the Mines of Indiana During the Year 1904. Also the Number of Persons Dependent on Them for Support.

NATIONALITY.	Fatalities.	Widows.	Children.
American English Irish Scotch Welsh Polander Austrian	25 1 1 2 1 1	11 i	26 8 1
Austrian Colored Total	34	14	39

## COMPARATIVE TABLE,

Showing Number of Tons of Coal Mined Each Year, the Number of Persons Employed and the Number of Tons Produced Per Each Death from January 1, 1879, to January 1, 1905.

YEAR.	Tons Produced.	Employes.	Deaths.	Tons Per Death
79	1,196,490	3,459	Not reported.	
80	1,550,375	No report.		
81	1,771,536	4,567	10	177,18
82	1,900,000	No report.		
83	2,560,000	5,403	11	232,7
84	2,260,000	5,716	. 9	228,8
85	2,375,000	6,502	7 1	239,2
86	3,000,000	6,406	7	428,5
87	3,217,711	No report.	17	184.7
89 (No report)	3,140,979	6,685	17	104,7
90	3,791,211	6,550	5	758,2
91	3,819,600	6,975	5	763,9
92	4,408,471	7,600	19	232,0
93	4,358,897	7,431	22	193.5
4 (No report)	2,000,001	/		
95	4.202.084	7,885	23	182,6
96	4,068,124	7,112	28	170,2
97	4,088,100	7,984	16	262,6
98	5,146,920	No report.	' 22	233,9
99	5,864,975	7,366	15	390.9
00	6,283,063	8,858	18	349,0
<u>01</u>	7,019,203	12,096	24	292,4
02	8,763,197	13,139	24	365,1
03	9,992,563 9,872,404	15,128 17,838	, <b>5</b> 5	181,6 290,3

## TABLE OF SERIOUS ACCIDENTS.

## CLAY COUNTY.

Date.	<b>Name.</b>	Occupation.	Injury.	Cause.	Mine.	Company.
Jan. 4. Jan. 30. Feb. 2. Feb. 16. Feb. 16. Feb. 18. Feb. 16. Mar. 8. Mar. 12. Apr. 21. May 4. June 21. July 6. Aug. 31.	Albert Parker Martin Formento. Wm. Byson David Riley. Perry Chaney. Wm. Carbon Antone Ceglander. Grant Duncan. Charles Haines.	Miner Miner Miner Machine run'r Miner Driver Miner Miner Miner	Body bruised Hip crushed Shoulder injured Foot crushed Foot crushed Foot crushed Foot crushed Pelvis bone broken Leg broken Body bruised Hip injured Leg injured Leg injured Leg injured	Falling slate	Cloverland No. 1	Lewis Coal Co. Collins Coal Co. Zellar-McClellan Co. Crawford Coal Co. Zellar-McClellan Co.

#### DAVIESS COUNTY.

Mar. 15 Logan Fields	Miner Jerryman	Leg broken	Falling slate Falling slate	Montgomery No. 3 Mutual	Daviess County Coal Co. Mutual Mining Co.
			(		

### GIBSON COUNTY.

Jan. 12 Feb. 29	Wm. Fine	Miner Driver	Leg broken	Delayed shot Mine car	Oswald	Princeton Mining Co. Princeton Mining Co.
		1				

### GREENE COUNTY.

### KNOX COUNTY.

July 22 Feb. 10	Pat Ryan	 Miner Miner	Breast and face burned Three ribs broken	Premature shot Falling slate	Bicknell Prospect Hill	Blacknell Coal Co. Prospect Hill Coal Co.

## TABLE OF SERIOUS ACCIDENTS—Continued.

### PARKE COUNTY.

Date.	Name.	Occupation.	Injury.	Cause.	Mine.	Company.		
Jan. 14 Feb. 16 Feb. 22 Mar. 16 Feb. 27 Mar. 8 Apr. 29 May 9 June 22 July 18 Aug. 25 Aug. 27 Aug. 29 Aug. 29 Aug. 31 Sept. 8 Oct. 20	Otto Powers Martin Fermento Kago Dottie George Jago John Kellar James Houky Lee Wher Joe Carzetta Wm. Oswalt Joe Woods Mike Papincak Marion Yowel Brant McAblester Mike Genie Wm. Erbine Manual Hatt Essich Hawkins	Miner Driver Driver Miner Machine run'er Machine run'er Machine helper Loader Miner	Rib broken Chest injured Arm broken Face and arms burned Back injured Back injured Bringer mashed off Spine injured Hip injured Nose broken Face and head injured Arm broken Leg broken Leg broken, back injured Hips injured	Falling slate. Falling slate. Between carand prop Explosion of powder Mine car Falling slate. Blown out shot.	Minshall No. 1.  B. B. Coal Co. No. 9. Lyford No. 1. Lyford No. 1. Minshall No. 1. Park No. 11. Lyford No. 1. Gilmour Brazil Block No. 12. Mecca No. 3. Brazil Block No. 9. Minshall No. 1. Minshall No. 1. Minshall No. 2. Superior No. 4. Lyford No. 1. Lyford No. 1. Lyford No. 1.	Minshall Vein Coal Co. B. B. Coal Co. Lincoln Coal and Mining Co. Lincoln Coal and Mining Co. Lincoln Coal and Mining Co. Minshall Vein Coal Co. Parke County Coal Co. Lincoln Coal and Mining Co. Zellar-McClellan Coal Co. Brazil Block Coal Co. Minshall Vein Coal Co. Minshall Vein Coal Co. Zellar-McClellan Co. Zellar-McClellan Co. Zellar-McClellan Co. Lincoln Coal and Mining Co. Lincoln Coal and Mining Co.		
	÷		PIKE COU	JNTY.	•			
Jan. 13 Jan. 14 Jan. 25 Sept. 8 Feb. 10 Mar. 23 Dec. 3	Alley Hall Rice Kullans Ben Allen Mulburn Little Chris Edes John King J. B. Miley	Miner	Face and body burned Finger crushed off Thumb cut off Ankle bone fractured Back injured Shoulder fractured Ankle fractured	Powder explosion Mine car Ralling slate. Mine car Falling slate Falling slate Fell against prop Mine car	Carbon Petersburg Hartwell Blackburn Winslow Ayrshire Blackburn	Aberdeen Coal Co. Muncie Coal and Mining Co. S. H. Wulfman. S. W. Little Coal Co. Winslow Gas Coal Co. Ayrshire Coal Co. S. W. Little Coal Co.		
	SULLIVAN COUNTY.							
Jan. 5 Jan. 21 Feb. 3	Moses White	MinerMinerMinerMinerMinerMiner	Face and hands burned Back injured Ankle broken Face and head injured Three ribs dislocated	Dust explosion Falling draw slate Falling coal Falling slate Mine car	Mammoth Vein	Mammoth Vein Coal Co. J. Woolley Coal Co. Cummins Coal Co. Rainbow Coal & Mining Co. J. Woolley Coal Co.		

Mar. 24. Marsh Moore Mar. 16. Thomas James. Mar. 18. Jack N. Arthur. Apr. 7 Charles Young Apr. 13. J H. Wooley. Apr. 28. Jacob Wesk. May 26. Wm. Epperson. June 1 Ross Nixon May 21. Jas. Lindsay. July 14. J. M. Poor. Aug. 16. John Crynes. Sept. 10. Chas. McGarvey. Sept. 14. Stephen Harper. Dec. 6 Fred Ring. Dec. 7. Lonie Delania.	Driver	Jawbone crushed	Kicked by mule Mine car	Cummins. Star City. Phoenix No. 3. St. Clair Star City. Green Hill St. Clair Phoenix No. 1. Freeman Star City. Wilfred. Union Jackson Hill No. 2. Mammoth Vein.	Cummins Coal Co. Harder-Hafer Coal Co. New Pittab'g Coal & Coke Co. Ind. Hocking Coal Co. Harder-Hafer Coal Co. Harder-Hafer Coal Co. Green Hill Coal Co. Ind. Hocking Coal Co. New Pittaburg Coal Co. Sullivan Coal Co. Sullivan Coal Co. Wiffred Coal Co. Union Coal Co. Jackson Hill Coal & Coke Co. Mammoth Vein Coal Co.
		VANDERBURG	H COUNTY.	·	
Feb. 11 J. Killelue		Shoulder fractured Rib broken Knee injured	Falling slate Fell from scaffold Mine car	Unity Ingleside Sunnyside	Cresent Coal Co. Ohio River Coal Co. Sunnyside Coal Co.
	· ·	VERMILLION	COUNTÝ.		
Jan. 4. John Mahon Jan. 9. Oliver Green Jan. 9. Wm. Jones Jan. 27. Wm. Clements Feb. 1. Mike Wagner Mar. 3. Shill Webster Apr. 20. Harry Livengood Aug. 5. Robert Thomas Sept. 8. Manna Hatt Sept. 8. James Jackson Oct. 29. Judson Rice Sept. 19. James Jackson Oct. 29. H. Littleals Oct. 29. John Galloway Oct. 29. George Swinford Nov. 15. Wm. Ottinger Nov. 15. Lester Jones	Miner Miner Miner Driver Miner Driver Cager  Miner Driver Driver Miner Driver Miner	Skull fractured, one eye out Hand and face burned. Face and head burned Foot broken Collar bone broken Hips injured Back injured Back injured Leg fractured Back injured Leg broken Shock by electricity. Leg brokeu Collar bone broken Back injured Back injured Back injured Burned externally	Crushed by cage Dust explosion Same accident Mine car Mine car Mine car Coal falling down shaft Falling slate Mine car Falling slate Mine cage Mine cage Mine cage Mine cage Mine cage Mine cage Same accident	Bruilettes Creek No. 3 Atherton. Atherton. Bruilettes Creek No. 3 Prince Buokeye  Eureka No. 1 Lyford No. 1 Lyford No. 1 Bruilettes Creek No. 6 Prince Buokeye	Bruilettes Creek Coal Co. Chas. F. Keeler Goal Co. Chas. F. Keeler Goal Co. Chas. F. Keeler Goal Co. Bruilettes Creek Coal Co. Kellar Coal Co. McClellan Sons & Co. Cayuga Pressed Brick Co. Lincoln Coal & Min. Co. Lincoln Coal & Min. Co. Lincoln Coal & Min. Co. Kellar Coal Co. McClellan Sons & Co. Cayuga Brick and Coal Co. Cayuga Brick and Coal Co.

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## TABLE OF SERIOUS ACCIDENTS-Continued.

#### VIGO COUNTY.

Date.	Name.	Occupation.	Injury.	Cause.	Mine.	Company.
	Alonzo Morris Tom McKinney Vene Tanner  John Hamilton Henry Trible Oscar King Arch West B. Waugh William Shepherd Abe Akers Richard Christopher Fred Christimay Albert Regan John Corbin Benjamin Meore. William Garnett Frank Adams	Driver Driver Miner Driver Miner Miner	Leg broken. Face and hands burned. Face and breast burned.  Hips fractured. Burned internally. Burned internally. Face and hands burned. Lost an eye. Log broken. Crushed in chest. Both legs broken. Wrist broken. Wrist broken. Shoulder dislocated. Wrist fractured. Spine injured. Lost one eye.	Fell off cage Premature blast. Shot exploded while tamping Falling under car. Misplaced shot. Explosion of powder Explosion of powder Kicked by mule. Mine car Halling slate Falling soal. Mine cars Mine cars Descending cage.	Glen Oak Grant No. 2 Grant No. 2	Fauvre Coal Co. Chas. F. Kellar Coal Co. Coal Bluff Mining Co.

#### WARRICK COUNTY.

Mar. 10 Thomas Jones Miner Miner Miner	Ankle injured	Falling slate Premature shot	Electric	L. D. Scales. Ohio River Coal Co.
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NOTE. The above includes those who have sustained broken bones, injury to spine, internal injuries, cuts, bruises and other injuries, such as we think require special mention.

#### ACCIDENTS TO MINE PROPERTY.

Considering the increased number of new mines in operation during the past year, the financial loss from accidents to mine property for that period were comparably small. The most serious accident occurring, and one that entailed the greatest financial loss, was the destruction of the entire surface plant of the Coal Bluff Mining Company's Glen No. 2 Mine, in the early part of November, by fire. The loss of buildings, ropes, cages, screens, scales and repairs on machinery, boilers, etc., from the accident will probably amount to \$10,000.

On Saturday night, October 29th, a fire, originating from a blast, occurred at the face of one of the cross-entries in the Atlas No. 1 Mine, in Greene County. The fire was not discovered until the following Monday morning, and it had gained such headway, owing to the dense volume of smoke and gases given off, that the mine could not be operated. Two days were lost, during which time air-tight brattices were built across the entry and in the breakthroughs for the purpose of smothering the fire, after which operations were resumed. The loss from this accident, other than the time lost by the mine being idle, would not exceed \$150.

A gob fire, originating from spontaneous combustion, occurred in the Midland Mine about December 5th. Prompt action on the part of the mine management in effectively sealing off the affected galleries with air-tight brattices, built of brick and mortar, prevented it from assuming serious proportions, and on my visit to the mine, December 12th, the fire was under complete control. The cost of material, labor, etc., in constructing the brattices will amount to about \$1,000. In addition to this a considerable portion of the mine will be abandoned for the present.

A fire originating from a gas blower being lighted by a blast occurred at the face of one of the working places in the Citizens' Mine, in Sullivan County. Fortunately, the mine was located near the waterworks in the town of Sullivan, and through the aid of the fire department from that town the fire was extinguished after about twelve hours' labor. The loss from this accident will not exceed \$100.

On December 13th, about 6:15 p. m., one of the boilers in the Park No. 10 Mine plant exploded with great violence. So great was the force of the explosion that several other boilers located near the one that exploded were thrown out of position, and all of the smokestacks except one were knocked down and the boiler room completely wrecked. Fortunately there was no one seriously inujred, although several workmen were in the near vicinity when the boiler gave way.

, The excessive heavy rainfall during the latter part of the winter and early spring flooded a number of mines in different parts of the State. Considering the time the mines were idle while the water was being pumped out, the repairs, etc., necessary to put them in shape for operation, the damage suffered from this was probably greater than from any other cause during the year. Among those whose loss was the greatest are the following:

The Buckeye Mine, in Greene County, was flooded March 11th, and remained idle until June 1st.

The Island No. 1 and Island Valley No. 3 were both flooded on the same date, and were idle two weeks.

The Blackburn Mine, in Pike County, was also flooded about the same date, and has not been operated since that time.

The Bruillette's Creek No. 3, in Vermillion County, was flooded about March 20th, and was idle about one month.

The Chicago No. 6 Mine, in Vigo County, was flooded in February, and did not resume operations until August.

The Klondike Mine, in Vigo County, was flooded in March, and did not resume operations until July.

## DIRECTORY OF MINES.

Names and addresses of persons operating mines in each county, also the names of the mines:

## CLAY COUNTY.

Name.	Address.	Mine.	
Brazil Block Coal Company	Brazil	Brazil Block No. 1.	,
Brazil Block Coal Company	Brazil	Brazil Block No. 4.	
Brazil Block Coal Company	Brazil	Brazil Block No. 8.	
Brazil Block Coal Company	Brazil	Gart No. 7.	
Brazil Block Coal Company	Brazil	Gart No. 10.	
Continental Clay & Mining Co	Brazil	Continental No. 1.	
S. & R. McIntosh Coal Co	Brazil	Rebstock.	
Cellar-McClellan & Co	Brazil	Cloverland No. 1.	١.
Zellar-McClellan & Co	Brazil	Cloverland No. 2.	
ellar-McClellan & Co	Brazil	Superior No. 4.	
Zellar-McClellan & Co	Brazil	Superior No. 7.	
Indiana Bitumineus Coal Co	Terre Haute	Fairview.	
Indiana Bituminous Coal Co	Terre Haute	Pearl.	
ackson Coal & Mining Co	Brazil	Cornwall.	
Crawford Coal Company	Brazil	Crawford No. 5.	
Crawford Coal Company	Brazil	Crawford No. 4.	
Crawford Coal Company	Brazil,	Crawford No. 6.	
Crawford Coal Company	Brazil	Crawford No. 8.	
Crawford Coal Company	Brazil	Crawford No. 9.	
Star Union Coal & Oil Co	Indianapolis	Fortner.	
C. Ehrlich Coal Company	Turner	Klondike.	
Collins Coal Company	Brazil	Gifford No. 1.	
Collins Coal Company	Brazil	Gifford No. 2.	
merican Clay Mfg. Company	Brazil	Monarch.	
Lewis Coal & Mining Company	Lewis	Lewis.	
Vivian Coal Company	Chicago	Vivian No. 4.	
Vivian Coal Company	Chicago	Vivian No. 5.	
Indiana Block Coal Company	Saline	Lower Vein Block No. 1.	
Jasonville Coal Company	Jasonville	Geld Knob.	
Dan Davis Coal Co	Brazil	Worlds Fair No. 2.	
sland Valley Coal Co	Linton	Island Valley No. 4.	

#### DAVIESS COUNTY.

Stucky & Osborn.  Daviess County Coal Co.  Mutual Mining Company Winklepleck & Overton.  Mandabach Bros.	Raglesville	Stuckey. Montgomery No. 3. Mutual. Union. Mandabach.	
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### FOUNTAIN COUNTY.

Rush Coal Company Silverwood Coal Company	Cleveland, Ohio Silverwood,	Rush. Silverwood.	
			,

#### GIBSON COUNTY.

### GREENE COUNTY.

	GREEKE COURTY.	
Name.	Address.	Mine.
Black Creek Coal Company  Island Coal Company  Hotorier Coal Company  Hoosier Coal Company  Hoosier Coal Company  Island Valley Coal Company	Linton	Black Creek
Island Coal Company	Linton	Black Creek. Island No. 1. Island No. 2.
Island Coal Company	Indianapolis	Island No. 2.
Island Coal Company	Indianapolis	Island No. 3.
Indiana Southern Coal Co	Indianapolis. Chicago Bloomfield Bloomfield	Island No. 5.
Hoo ier Coal Company	Bloomfield	Gilmoura Gilmoura Hoosier No. 1. Hooeier No. 2. Island Valley No. 2. Island Valley No. 3. South Linton.
Hoosier Coal Company	Bloomfield	Hoosier No. 2.
Island Valley Coal Company	Linton	Island Valley No. 2.
Hoosier Coal Company.  Island Valley Coal Company.  Island Valley Coal Company.  South Linton Coal Company.  Midland Coal Company.  Vulcan Coal Company.  Vulcan Coal Company.  Western Indiana Coal Co.  Victoria Coal Company.  L. T. Dicksson Coal Co.  Antioch Coal Company.  Tower Hill Coal Company.  Green Valley Coal Company.  Lattas Crebk Coal Company.  Johnson Coal Company.	Linton	Island Valley No. 3.
Midland Coal Company	Linton	Midland
Vulcan Coal Company	Midland. Indianapolis. Bloomfield.	Midland. Vulcan.
Summit Coal Company	Bloomfield	Summit No. 2. Templeton.
Western Indiana Coal Co	Terre Haute	/ Tampleton
L. T. Dickson Coal Co.	Linton	Victoria.
Antioch Coal Company	Linton	Glenburn.
Tower Hill Coal Company	Linton Bloomington Jasonville Terre Haute Columbus, Ohio. Columbus, Ohio Jasonville Bloomfield	Antioch. Tower Hill. Green Valley.
Green Valley Coal Company	Jasonville	Green Valley.
Lattas Creek Coal Company	Terre Haute	Lattas Creek No. 1. Atlas No. 1.
Johnson Coal Company Johnson Coal Company Johnson Coal Company	Columbus, Ohio	Atlas No. 1.
Canch Coal Company	Tegonville	Atlas No. 2. Fry. Letsinger.
Letsinger Coal Company	Bloomfield	Letsinget
Northwestern Coal Company	Jasonville Terre Haute	
Letsinger Coal Company Northwestern Coal Company Coal Bluff Mining Co North Linton Coal Company	Terre Haute	Twin.
Pennsylvania & Indiana Coal Co.	Linton	North Linton. Pennsylvania.
t dinby ivania & Indiana Coai Co.	Midiand	Pennsylvania.
Bicknell Coal Company Knox Coal Company Lynn Coal Company. Sugar Loaf Mining Co. Enterprise Coal Company. Washington-Wheatland Coal Co. Chicago & Big Muddy Coal Co.	Bicknell Bicknell Bicknell Bicknell Vincennes Washington Bicknell	Bicknell. Knox. Lyn". Prospect Hill. Enterprise. Wheatland. Pine Knot.
	PARKE COUNTY.	
W. P. Harrison	Rockville	Harrison.
Brazil Block Coal Co	Brazil	Brazil Block No. 12. Cox No. 3.
Brazil Block Coal Co	Brazil	Cox No. 3. Brazil Block No. 9.
frazil Block Coal Co. clock Run Coal Co Mecca Coal & Mining Co. Lincoln Coal & Mining Co. Lincoln Coal & Mining Co. Lincoln Coal & Mining Co. Liter Treek Coal Co. Lellar-McClellan & Co. Lellar-McClellan & Co. Lellar-McClellan & Co. Lellar-McClellan & Co. Linshall Vein Coal & Mining Co. Lymouth Block Coal Co. Lontinental Coal Co. Lontinental Coal Co.	Brazil Mecca	Lucia.
Mecca Coal & Mining Co	Mecca	Lucia. Mecca No.3, Lyford No.1. Mary.
incoln Coal & Mining Co	Chicago, Ill	Lyford No. 1.
College McCleller & Co	Chicago, Ill	Mary.
ellar-McClellan & Co	Hrazil	Superior No. 1. Superior No. 2. Superior No. 3. Mineball No. 1.
ellar-McClellan & Co	Brazil	Superior No. 3.
Ainshall Vein Coal & Mining Co.	Brazil Terre Haute Terre Haute	Minshall No. 1.
dinshall Vein Coal & Mining Co.	Terre Haute	Minshall No. 2.
lymouth Block Coal Co	Terre Haute	Pan American.
Parka County Coal Co	Terre Haute	Raccoon.
ontinental Coal Co	Rosedale	Parke No. 11. Parke No. 12.
The state of the s		
	, DEDDY GOVERN	
	PERRY COUNTY.	<u> </u>
Bergonroth Bros	Troy	Troy.

### PIKE COUNTY.

Name.	Address.	Mine
berdeen Coal Company	Carbon Oakland City Carbon Oakland City Oakland City Oakland City Evansville Evansville Evansville Huntingburg Muncie Winslow Winslow	Carbon. Ayrshire No. 4. Ayrshire No. 5. Ayrshire No. 6. Rogers. Blackburn. Littles. Hartwell. Petersburg.

#### SULLIVAN COUNTY.

Washington Fuel Co. Rainbow Coal & Mining Co. Caladonia.  Indiana & Chicago Coal Co. Chicago, Ill. Ogreen Hill Coal Co. Sullivan. Hymera Coal Co. Jackson Hill Coal & Mining Co. Terre Haute. Jackson Hill No. 2, Phoenix No. 1. Phoenix No. 1. Phoenix No. 1. Phoenix No. 1. Phoenix No. 3. New Pittsburg Coal & Coke Co. Chicago, Ill. Hymera No. 3. New Pittsburg Coal & Coke Co. Chicago, Ill. Hymera No. 3. New Pittsburg Coal & Coke Co. Chicago, Ill. Hymera No. 4. Keystone Coal Co. Hymera Hymera No. 4. Keystone Coal Co. Chicago, Ill. Hymera No. 4. Star City. Sullivan County Coal Co. Hymera Sun Flower Coal Co. Wilfred Coal Co. Wilfred Coal Co. Shelburn. Sun Flower Coal Co. Shelburn. Sun Flower Coal Co. Cummins Coal Co. Cummins Coal Co. Cummins Coal Co. Shelburn. Sullivan Coal Co. Cummins Coal Co. Shelburn. Farmersburg. La Blanche. Citizens. Bruilettes Creek Coal Co. Chicago, Ill. Virginia. Superior Coal Co. Coal Bluff Mining Co. Coal Bluff Mining Co. Coal Bluff Mining Co. N. Jackson Hill Coal & M. Co. Shelburn. Sterre Haute. Superior Coal Co. Coal Bluff Mining Co. Shelburn. Sterre Haute. Superior Coal Co. Coal Bluff Mining Co. Coal Bluff Mining Co. Coal Bluff Mining Co. Shelburn. Sterre Haute. Superior. Shirley Hill. Coal Bluff Mining Co. N. Jackson Hill Coal & M. Co. Shelburn. Reliance Coal Co. Union Coal Co. Linton Bituminous Coal Co. Linton Bituminous Coal Co. Linton Hamilton.			
Rainbow Coal & Mining Co. Indiana & Chicago Coal Co Creen Hill Coal Co. Sullivan. Hymera Coal Co. Jackson Hill Coal & Mining Co. Torre Haute. Jackson Hill No. 2. New Pittsburg Coal & Coke Co. Chicago, Ill. Phoenix No. 1. Phoenix No. 3. New Pittsburg Coal & Coke Co. Chicago, Ill. Phoenix No. 4. Keystone Coal Co. Harder-Hafer Coal Co. Hymera Sullivan County Coal Co. Hymera Sullivan County Coal Co. Wilfred Coal Co. Wilfred Coal Co. Linton Semi Block Coal Co. Linton Semi Block Coal Co. Chicago, Ill. Shelburn. Shelburn. Wilfred No. 1. Island Coal Co. Linton Semi Block Coal Co. Chicago, Ill. Cummins Coal Co. Linton Semi Block Coal Co. Chicago, Ill. Cummins Coal Co. Linton Coal Co. Sullivan. Cummins Coal Co. Chicago, Ill. Cummins. Cummins Coal Co. Linton Coal Co. Chicago, Ill. Cummins. Cummins C	Washington Fuel Co.	Chicago, Ill	Bunker Hill.
Indiana & Chicago Coal Co Green Hill Coal Co Green Hill Coal Co Hymera Coal Co New Linton Coal Co Jackson Hill Coal & Mining Co New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 3. Phoenix No. 1. New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 3. New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 4. New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 4. New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 4. New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 4. New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 4. New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 5. New Pittsburg Coal Co Mymera Sullivan County Coal Co Hymera Sullivan County Coal Co W S Bogle Coal & Mining Co W S Bogle Coal & Mining Co Chicago, Ill Glendors. Shelburn Wilfred Coal Co Indiana Hocking Coal Co Indiana Hocking Coal Co Sullivan Citizens' Coal Co Coal Bluff Mining Co Terre Haute Superior Coal Bluff Mining Co N, Jackson Hill Coal & M. Co. Reliance Coal Co Sullivan Sullivan Sullivan Sullivan Sullivan Superior Coal Bluff Mining Co Shelburn St. Clair Kettle Creek Sullivan Sullivan Sullivan Sullivan Sullivan Sullivan Reliance Sullivan Reliance Sullivan Sullivan Sullivan Reliance Sullivan Reliance Sullivan Sullivan Sullivan Reliance Sullivan			
Green Hill Coal Co.  Hymera Coal Co.  Hymera Hymera Hymera No. 2.  Hymera Coal Co.  Hymera Hymera Hymera No. 3.  Hymera Coal Co.  Hymera Hymera No. 4.  New Linton Coal Co.  Jackson Hill Coal & Mining Co.  New Pittsburg Coal & Coke Co.  New Pittsburg Coal & Coke Co.  Chicago, Ill.  New Pittsburg Coal & Coke Co.  Chicago, Ill.  Phoenix No. 1.  Phoenix No. 3.  Phoenix No. 3.  Phoenix No. 4.  Keystone Coal Co.  Chicago, Ill.  Star City.  Star City.  Sullivan County Coal Co.  Wilfred Coal Co.  Wilfred Coal Co.  Linton Semi Block Coal Co.  Linton Coal Co.  Linton Coal Co.  Linton Coal Co.  Linton Semi Block Coal Co.  Linton Coal Co.  Linton Coal Co.  Linton Semi Block Coa			
Hymera Coal Co New Linton Coal Co New Linton Coal Co New Pittsburg Coal & Coke Co New Pittsburg Coal & Co New Pittsburg Coal Co New Hymera New Pittsburg Coal Co New Pittsburg Coal & New Linton New Linton Semi Block Coal Co New Hymera New Linton Semi Block Coal Co New Pittsburg Coal Co New Pittsburg Coal Co New Pittsburg Coal Co New Linton Semi Block Coal Co New Linton Semi Block Coal Co New Pittsburg Coal Co New Pittsburg Coal Co New Linton Semi Block Coal Co New Pittsburg Coal Co New Pittsburg Coal Co New Pittsburg Coal Co New Linton Semi Rower Coal Co New Pittsburg Coal Co New Pittsburg Coal Co New Pittsburg Coal Co New Pittsburg Coal Co New Linton New Linton No. 2. New Linton New Linton No. 3. New Linton No. 1. New Linton New			
Hymera Coal Co Hymera Hymera No. 3.  Hymera Coal Co Hymera Hymera No. 4.  New Linton Coal Co Indianapolis New Linton.  Jackson Hill Coal & Mining Co Terre Haute. Hymera No. 2.  New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 3.  New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 3.  New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 4.  Keystone Coal Co Chicago, Ill Star City.  Harder-Hafer Coal Co Chicago, Ill Star City.  Sullivan County Coal Co Hymera White Ash.  Sullivan County Coal Co Hymera Freeman.  Sun Flower Coal Co Dugger Sun Flower.  W S. Bogle Coal & Mining Co Chicago, Ill Glendors.  Wilfred Coal Co Indianapolis Island No. 4.  Linton Semi Block Coal Co Chicago, Ill Wolford.  Cummins Coal Co.  Indiana Hocking Coal Co Farmersburg La Blanche.  Citizens' Coal Co Sullivan Citizens.  Superior Coal Co Chicago, Ill Sundered.  Wolford.  Citizens' Coal Co Sullivan Citizens.  Coal Bluff Mining Co Terre Haute. Superior.  Superior Coal Co Terre Haute. Superior.  Coal Bluff Mining Co Terre Haute. Shelburn.  N. Jackson Hill Coal & M. Co.  Shelburn Kettle Creek Coal Co Shelburn Kettle Creek No. 6.  Sullivan Reliance.  Vettle Creek.  Selburn Reliance.  Sullivan Reliance.  Vettle Creek.			
Hymera Coal Co New Linton Coal Co New Linton Coal Co New Linton Coal & Mining Co. Terre Haute. Jackson Hill No. 2. New Pittsburg Coal & Coke Co. New Pittsburg Coal Co. New P			
New Linton Coal Co Jackson Hill Coal & Mining Co Jackson Hill No. 2, New Pittsburg Coal & Coke Co Chicago, Ill New Pittsburg Coal & Coke Co Chicago, Ill New Pittsburg Coal & Coke Co New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 3, New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 4, New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 4, New Pittsburg Coal & Coke Co Chicago, Ill Phoenix No. 4, New Pittsburg Coal & Coke Co Chicago, Ill Shelburn Shelburn Shelburn Shelburn Shelburn Sun Flower Coal Co W S Bogle Coal & Mining Co W S Bogle Coal & Mining Co Chicago, Ill Shelburn Shelb			
Jackson Hill Coal & Mining Co. New Pittsburg Coal & Coke Co. New Pittsburg Coal & Co. New Pittsburg Coal Co. New Pitts Coal Co. N			
New Pittsburg Coal & Coke Co. New Pittsburg Coal & Coke Co. Chicago, III. New Pittsburg Coal & Coke Co. Chicago, III. Phoenix No. 3. Phoenix No. 4. Reystone Coal Co. Chicago, III. Phoenix No. 4. Reystone Coal Co. Chicago, III. Shelburn. Shelburn. Shelburn. Shelburn. Shelburn. Shelburn. Sullivan County Coal Co. Hymera. Sun Flower Coal Co. W. S. Bogle Coal & Mining Co. Wilfred Coal Co. Island Coal Co. Island Coal Co. Indianapolis. Island No. 4. Linton Semi Block Coal Co. Chicago, III. Shelburn. Wilfred No. 1. Island No. 4. Linton Semi Block Coal Co. Chicago, III. Cummins Coal Co. Shelburn.			
New Pittsburg Coal & Coke Co. New Pittsburg Coal & Coke Co. Chicago, Ill. New Pittsburg Coal & Coke Co. Chicago, Ill. Shelburn. Harder-Hafer Coal Co. Sullivan County Coal Co. Wilfred Coal Co. Wilfred Coal Co. Linton Semi Block Coal Co. Linton Wolford. Cummins Coal Co. Lindiana Hocking Coal Co. Farmersburg. La Blanche. Citizens Coal Co. Sullivan. Sullivan. Superior Coal Co. Superior Coal Co. Coal Bluff Mining Co. Terre Haute. Superior. Coal Bluff Mining Co. Terre Haute. N. Jackson Hill Coal & M. Co. Shelburn. Shelburn. Kettle Creek Coal Co. Sullivan. Sullivan. Superior. Scal Coal Co. Shelburn. Kettle Creek Coal Co. Sullivan. Shelburn. Kettle Creek. Sullivan. Reliance. Union Coal Co. Sullivan. Reliance. Union Coal Co. Sullivan. Reliance.			
New Pittsburg Coal & Coke Co  Keystone Coal Co  Keystone Coal Co  Chicago, III  Shelburn.  Shelburn.  Sullivan County Coal Co  Whymera  Sullivan County Coal Co  Whymera  Sun Flower Coal Co  Wilfred Coal Co  Island Coal Co  Linton Semi Block Coal Co  Cummins Coal Co  Linton Semi Block Coal Co  Sullivan  Citizens' Coal Co  Sundiana Hocking Coal Co  Sullivan  Citizens' Superior  Coal Bluff Mining Co  Coal Bluff Mining Co  Coal Bluff Mining Co  Coal Sulf Mining Co  Shelburn  St. Clair  Kettle Creek Coal Co  Shelburn  St. Clair  Kettle Creek Coal Co  Sullivan  St. Clair  Kettle Creek  Sullivan  Sulpeno  Sulpeno  St. Clair  Kettle Creek  Sullivan  Sulpeno  Sulpeno  St. Clair  Kettle Creek  Sullivan  Sulpeno  Sulpeno  Sulpeno  Sulpeno  St. Clair  Kettle Creek  Sullivan  Sulpeno  Su			
Keystone Coal Co. Harder-Hafer Coal Co. Harder-Hafer Coal Co. Hymera. Sullivan County Coal Co. Hymera. Sullivan County Coal Co. Hymera. Sun Flower Coal Co. W. S. Bogle Coal & Mining Co. Wilfred Coal Co. Indianapolis. Linton Semi Block Coal Co. Linton Semi Block Coal Co. Linton Cummins Coal Co. Indiana Hocking Coal Co. Sullivan. Citizens' Coal Co. Bruilettes Creek Coal Co. Bruilettes Creek Coal Co. Cidiana Goal Co. Cidiana Coal Co. Coal Bluff Mining Co. Superior Coal Co. Shelburn. St. Clair. Kettle Creek Coal Co. Shelburn. St. Clair. Kettle Creek. Seliance. Sullivan. Superior. St. Clair. Kettle Creek. Seliance. Sullivan. Superior. St. Clair. Kettle Creek. Seliance. Sullivan. Superior. St. Clair. Kettle Creek.			
Harder-Hafer Coal Co Chicago, Ill Star City. Sullivan County Coal Co Hymera White Ash. Sullivan County Coal Co Hymera Freeman. Sun Flower Coal Co Dugger Sun Flower. Wilfred Coal Co Chicago, Ill Glendora. Wilfred Coal Co Indianapolis Island No. 1. Island Coal Co Cummins Coal Co Chicago, Ill Cummins. Indiana Hocking Coal Co Farmersburg La Blanche. Sullivan Citizens Coal Co Chicago, Ill Cummins. Farmersburg Chicago, Ill Cummins. Farmersburg Chicago, Ill Cummins. Sullivan Citizens. Farmersburg Chicago, Ill Cummins. Sullivan Citizens. Sullivan Citizens. Coal Coal Co Chicago, Ill Sundered. Keller Coal Co Chicago, Ill Sundered. Superior Coal Co Chicago, Ill Superior Coal Co Chicago, Ill Virginia. Superior Coal Co Chicago, Ill Superior. Coal Bluff Mining Co Terre Haute Shrilet Giant. N. Jackson Hill Coal & M. Co. Shelburn St. Clair. Kettle Creek Coal Co Sullivan Reliance. Union Coal Co Sullivan Reliance. Union Coal Co Sullivan Reliance. Union Coal Co Sullivan Union.			
Sullivan County Coal Co.  Sullivan County Coal Co.  Hymera.  Sun Flower Coal Co.  W. S. Bogle Coal & Mining Co.  Kilfred Coal Co.  Island Coal Co.  Linton Semi Block Coal Co.  Linton Semi Block Coal Co.  Cummins Coal Co.  Citizens' Coal Co.  Bruilettes Creek Coal Co.  Bruilettes Creek Coal Co.  Coal Bluff Mining Co.  Shelburn.  Stepen Superior  Stepen S	Harder-Hafer Coal Co		Star City.
Sullivan County Coal Co. Sun Flower Coal Co. Wilfred Coal & Mining Co. Chioago, III. Shelburn. Linton Semi Block Coal Co. Linton Cummins Citizens Coal Co. Linton Cummins Citizens Coal Co. Linton Cummins Citizens C			White Ash.
Sun Flower Coal Co W S. Bogle Coal & Mining Co Wilfred Coal Co Shelburn.			Freeman.
W. S. Bogle Coal & Mining Co Wilfred Coal Co Island Coal Co. Indianapolis Island No. 4.  Linton Semi Block Coal Co Cummins Coal Co. Indiana Hocking Coal Co Bruilettes Creek Coal Co. Sullivan.  Evansville Superior Coal Co. Coal Bluff Mining Co. Coal Bluff Mining Co. N. Jackson Hill Coal & M. Co. Reliance Coal Co. Shelburn Shelburn Style Superior Coal Co. Sullivan. Coal Bluff Mining Co. Shelburn Style Shelburn Style Shelburn Style Style Shelburn Style Style Style Style Shelburn Style			Sun Flower.
Wilfred Coal Co Island Coal Co Linton Semi Block Coal Co Linton Cummins Coal Co Linton Citizens' Coal Co Linton Coal Earmersburg Lizens' Coal Co Linton Coal Earmersburg Lizens Coal Co Lizens' Coal Co Lizens Coal Bluff Mining Co Coal Bluff Mining Co Coal Bluff Mining Co Coal Bluff Mining Co Coal C			Glendora.
Island Coal Co. Linton Wolford.  Linton Semi Block Coal Co. Chicago, Ill. Cummins Coal Co. Chicago, Ill. Cummins Coal Co. Sullivan. Citizens:  Bruilettes Creek Coal Co. Chicago, Ill. Surginia.  J. Woolley Coal Co. Chicago, Ill. Surginia.  Superior Coal Co. Chicago, Ill. Virginia.  Superior Coal Bluff Mining Co. Terre Haute. Shirley Hill.  Coal Bluff Mining Co. Terre Haute. Shirley Hill.  Coal Bluff Mining Co. Shelburn. St. Clair.  Kettle Creek Coal Co. Shelburn. Kettle Creek.  Reliance Coal Co. Sullivan. Reliance.  Union Coal Co. Sullivan. Union.		Shelburn	Wilfred No.1.
Linton Semi Block Coal Co. Cummins Coal Co. Indiana Hocking Coal Co. Siliana Citizens. Superior Coal Co. Siliana Citizens. Superior. Siliana Siliana Citizens. Siliana Citizens. Siliana Citizens. Siliana Citizens. Superior. Siliana Citizens. Superior. Siliana Citizens. Siliana Citizens. Superior. Siliana Citizens. Siliana Citizens. Superior. Superior. Siliana Citizens. Superior. Superior. Siliana Citizens. Superior. Superior. Superior. Siliana Citizens. Superior. Superior. Superior. Siliana Citizens. Superior. Superior. Superior. Siliana Citizens. Superior. Superior. Superior. Siliana Citizens. Superior. S		Indianapolis	Island No. 4.
Indiana Hocking Coal Co Farmersburg. Citizens Coal Co Sulivan. Citizens Coal Co Citizens. Bruilettes Creek Coal Co Citizens. J. Woolley Coal Co Chicago, III. Superior Coal Co Chicago, III. Coal Bluff Mining Co Terre Haute. N. Jackson Hill Coal & M. Co. Shelburn. Kettle Creek Coal Co Checker. Reliance Coal Co Sulivan. Reliance Coal Co Chicago, III. Coal Bluff Mining Co Terre Haute. N. Jackson Hill Coal & M. Co. Reliance Coal Co Sulivan. Reliance Coal Co Sulivan. Reliance. Sulivan. Union.			Wolford.
Citizens' Coal Co. Bruilettes Creek Coal Co. Bruilettes Creek Coal Co. J. Woolley Coal Co. Keller Coal Co. Coal Bluff Mining Co. Teyre Haute. Coal Bluff Mining Co. Teyre Haute. Coal Bluff Mining Co. Shelburn. Kettle Creek Coal Co. Kettle Creek Coal Co. Shelburn. Kettle Creek Coal Co. Shelburn. Kettle Creek Coal Co. Shelburn. Kettle Creek. Sullivan. St. Clair. Kettle Creek. Sullivan. Sullivan. St. Clair. Ketlance Coal Co. Sullivan. Sullivan. Union.	Cummins Coal Co	Chicago, Ill	Cummins.
Citizens' Coal Co.  Bruilettes Creek Coal Co.  J. Woolley Coal Co.  Keller Coal Co.  Coal Bluff Mining Co.  Coal B	Indiana Hocking Coal Co	Farmersburg	La Blanche.
J. Woolley Coal Co. Evansville Mildred. Keller Coal Co. Chicago, Ill. Virginta. Superior Coal Co. Terre Haute. Superior. Coal Bluff Mining Co. Terre Haute. Shirley Hill. Coal Bluff Mining Co. Terre Haute. Little Giant. N. Jackson Hill Coal & M. Co. Shelburn. St. Clair. Kettle Creek Coal Co. Shelburn. Kettle Creek. Reliance Coal Co. Sullivan. Reliance. Union Coal Co. Sullivan. Union.			
J. Woolley Coal Co. Evansville Mildred. Keller Coal Co. Chicago, Ill Virginia. Superior Coal Co. Terre Haute. Superior. Coal Bluff Mining Co. Teyre Haute. Shirley Hill. Coal Bluff Mining Co. Terre Haute. Little Giant. N. Jackson Hill Coal & M. Co. Shelburn. St. Clair. Kettle Creek Coal Co. Shelburn. Kettle Creek. Reliance Coal Co. Sullivan. Reliance. Union Coal Co. Sullivan. Union.	Bruilettes Creek Coal Co	Terre Haute	Bruilettes Creek No. 6.
Keller Coal Co. Chicago, Ill. Viginla. Superior Coal Co. Terre Haute. Superior. Coal Bluff Mining Co. Terre Haute. Shrley Hill. Coal Bluff Mining Co. Terre Haute. Little Giant. N. Jackson Hill Coal & M. Co. Shelburn. St. Clair. Kettle Creek Coal Co. Shelburn. Kettle Creek. Reliance Coal Co. Sullivan. Reliance. Union Coal Co. Sullivan. Union.		Evansville	
Coal Bluff Mining Co. Terre Haute. Shirley Hill. Coal Bluff Mining Co. Terre Haute. Little Giant. N. Jackson Hill Coal & M. Co. Shelburn. St. Clair. Kettle Creek Coal Co. Shelburn. Kettle Creek. Reliance Coal Co. Sullivan. Reliance. Union Coal Co. Sullivan. Union.		Chicago, Ill	
Coal Bluff Mining Co. Terre Haute. Little Grant. N. Jackson Hill Coal & M. Co. Shelburn. St. Clair. Kettle Creek Coal Co. Shelburn. Kettle Creek. Reliance Coal Co. Sullivan. Reliance. Union Coal Co. Sullivan. Union.	Superior Coal Co		
Coal Bluff Mining Co. Terre Haute. Little Grant. N. Jackson Hill Coal & M. Co. Shelburn. St. Clair. Kettle Creek Coal Co. Shelburn. Kettle Creek. Reliance Coal Co. Sullivan. Reliance. Union Coal Co. Sullivan. Union.	Coal Bluff Mining Co	Terre Haute	
Kettle Creek Coal Co. Shelburn. Kettle Creek. Reliance Coal Co. Sullivan. Reliance. Union Coal Co. Sullivan. Union.	Coal Bluff Mining Co.	Terre Haute	
Reliance Coal Co. Sullivan. Reliance. Union Coal Co. Sullivan. Union.			
Union Coal Co Sullivan Union.			
Linton Bituminous Coal Co Linton Hamilton.			
	Linton Bituminous Coal Co	Linton	Hamilton.
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### VANDERBURGH COUNTY.

Diamond Coal Company Evansville Diamond. C. Thomas Coal Company Evansville First Avenue. Ingle Coal Company Evansville Sunnyside Coal Company Evansville Sunnyside. Evansville Coal & Mining Co Evansville Union. Crescent Coal Company Evansville Unity.
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# VERMILLION COUNTY.

Name.	Address.	Mine.
Bruilettes Creek Coal Co	Terre Haute	Bruilettes Creek No. 3.
ndiana Fuel Company	Clinton	Bruilettes Creek No. 5.
ndiana Fuel Company	Clinton	
ayuga Press Brick Company	Cayuga	Eureka.
McClellan & Sons	Clinton	
linton Coal Company	Clinton	Crown Hill No. 1.
linton Coal Company	Clinton	Crown Hill No. 2.
llinton Coal Company	Clinton	Oak Hill.
Keller Coal Company	Clinton	Prince.
Willow Grove Coal Company	Clinton.	
K. Deering & Co	Chicago, Ill	
Maple Valley Coal Company	Clinton	Maple Valley No. 1.
Maple Valley Coal Company	Clinton	Maple Valley No. 2.

#### VIGO COUNTY.

Chas. F. Keeler Coal Company. Terre Haute Brick & Pipe Co Manufactures Fuel Co. Coal Bluff Mining Company. Coal Bluff Mining Company. Coal Bluff Mining Company. J. Ehrlich. Grant Coal Company. W. S. Bogle Coal & Mining Co Loughner Coal Company. Miami Coal Company. Seeleyville Coal & Mining Co Seeleyville Coal & Mining Co West Terre Haute Coal Co Home Coal Company. Deep Vein Coal Company. Green Field Coal & Mining Co Green Field Coal & Mining Co	Terre Haute. Terre Haute. Terre Haute. Seeleyville. Grant. Chicago. III Brazil Brazil Brazil Rossdale. Indianapolis. Seeleyville. Seeleyville. West Terre Haute. Terre Haute. Terre Haute.	Brick Works. Chicago No. 6. Diamon J. Peerless. Lawton. Klondike. Seeleyville. Grant No. 2. Glen Oak. Hector. Miami No. 1. Miami No. 2. Miami No. 3. Parke No. 10. Redbird. Rosebud No. 2. Royal. Larimer. Broadhurst. Deep Vein. Greenfield No. 1.	
West Terre Haute Coal Co Home Coal Company Deep Vein Coal Company	West Terre Haute West Terre Haute Terre Haute	Larimer. Broadhurst. Deep Vein.	

### WARRICK COUNTY.

Hall & Marsh Big Four Coal Company J. Woolley Coal Company J. A. Bryan Charles Menden John Archibald T. D. Scales Coal Company Ohio River Coal Company	Boonville Boonville Evansville Evansville Evansville Roonville	Big Four. Big Vein No.3. Chandler. De Forrest. Star No. 1. Electric.	,
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Names and addresses of mine bosses and names of mines which they are managing.

#### CLAY COUNTY.

Name.	Address.	Name of Mine
John Bolin	Brazil	Brazil Block No. 1.
William Rosser		Brazil Block No. 8.
3. F. Jenkins		Gart No. 7.
William Woods	Diamond	Gart No. 10.
amuel Holden	Brazil	Continental.
ohn Jenkins	Brazil	Rebstock.
red Eberwine	Cloverland	Cloverland No. 1.
eorge Myers	Brazil	C'overland No. 2.
homas Thompson		Lawrence No. 6.
Villiam Myers	Turner	Fairview.
loses Marks		Cornwall.
riff Howell	Centerpoint	Crawford No. 5.
alter Knox		Crawford No. 6.
li Tibits		Fortner.
cob Ehrlich		Klondike.
eorge A. Davis	∤ Brazil	Gifford No. 1.
ugust Norkus	Brazil	Gifford No. 2.
. W. Jenkins	Brazil	Glen No. 1.
. W. Jenkins	Brazil	Glen No.2.
dward Somers	Staunton	Pearl.
lexander Ferguson Jilliam Johnson	Coalmont	Lewis. Vivian No. 4.
illiam Johnson		Vivian No. 5.
illiam Perry		Crawford No. 8.
illiam Risher	Saline	Lower Vein No. 1.
. G. Spears	Brazil	Crawford No. 9.
seph C. Winn	Brazil	Brazil No. 4.
illiam Miller	Brazil	Superior No. 4.
ilson McIntire	Jasonville	Gold Knob
illiam Pence	Brazil	World's Fair.
mes Skene	Brazil	Crawford No. 4.

#### DAVIESS COUNTY.

Arnold Brown Montgomery Montgomery No. 3.  J. P. Jager Cannelburg Mutual. W. A. Jacobs Raglesville. Union. Jacob Mandabach Washington Mandabach.	
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### FOUNTAIN COUNTY.

William Perry J. S. Tiley	Cates Silverwood	Rush. Silverwood.	-
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#### GIBSON COUNTY.

William Woods	Princeton	Oswald. Fort Branch.	
	<u> </u>	, .	

William Bergenroth.....

#### GREENE COUNTY.

uben Small chard Potter na Risher nry Osha arles Vaughn mes Scully mes Meredith seph Ferry orge Epperson seph Fennel nn Handall lliam Davidson mes Gibson lliam MoQuade seph Dunkerly Badders na Kelley	Linton	Black Creek. Island No. 1. Island No. 2. Island No. 3. Island No. 4. Gilmour. Hoosier No. 1. Hoosier No. 2. Island Valley No. 2. Island Valley No. 3. South Linton. Midland
shard Potter.  nm Risher.  nry Osha.  arics Vaughn  mes Scully.  mes Meredith  seph Ferry.  oorge Epperson.	Linton	Island No. 1. Island No. 2. Island No. 3.
nn Risher nry Osha arles Vaughn mes Scully mes Meredith seph Ferry orge Epperson	Linton Linton Linton Gilmour Linton Linton Linton	Island No. 2. Island No. 3. Island No. 3. Gilmour. Hoosier No. 1. Hoosier No. 2. Island Valley No. 2. Island Valley No. 3.
nry Osha arles Vaughn mes Scully mes Meredith seph Ferry orge Epperson	Linton Linton Gilmour Linton Linton Linton Linton	Island No. 3. Island No. 4. Gilmour. Hoosier No. 1. Hoosier No. 2. Island Valley No. 3.
orge Epperson	Linton	Island No. 4. Gilmour. Hoosier No. 1. Hoosier No. 2. Island Valley No. 2. Island Valley No. 3.
orge Epperson	Linton	Gilmour. Hoosier No. 1. Hoosier No. 2. Island Valley No. 2. Island Valley No. 3.
orge Epperson	Linton	Hoosier No. 1. Hoosier No. 2. Island Valley No. 2. Island Valley No. 3.
orge Epperson	Linton	Hoosier No. 2. Island Valley No. 2. Island Valley No. 3.
orge Epperson	Linton	Island Valley No. 2. Island Valley No. 3.
seph Fennel. nn Handall. lliam Davidson mes Gibson. lliam McQuade. seph Dunkerly.	Linton Linton Midland	Island Valley No. 3.
nn Kandall. Iliam Davidson mes Gibson. Iliam McQuade seph Dunkerly	Linton	
Iliam Davidson mes Gibson lliam McQuade seph Dunkerly	Midland	South Linton.
mes Gibson. lliam McQuadeseph Dunkerly		Midland. Vulcan.
seph Dunkerly	Timton	Vulcan.
вори ринкегту	LintonLinton	Tompleton
Roddona	Linton	Summit No. 2. Templeton. Victoria.
hn Kellev	Linton	Glenburn.
mes Stevenson	Linton	
mes Stevenson hin McQuade lliam James omas Hyatt Dalrymple mes Pascoe lliam Crouch Davis	Midland	Anticon. Tower Hill. Green Valley. Lattas Creek. Atlas No. 1. Atlas No. 2. Fry. Letsinger.
lliam James	Midland	Green Valley.
omas Hvatt	Jasonville	Lattas Creek.
Dalrymple	Linton	Atlas No. 1.
mes Pascoe	Linton	Atlas No. 2.
lliam Crouch	Jasonville	Fry.
n Dayis:	Jasonville	Letsinger.
n Davis	Linton	Twin. North Linton.
lliam Stevenson	Linton	North Linton.
ank Lockhart	Linton	Pennsylvania.
M. Freemanlliam LynnG. Hooper	Bicknell	Bicknell. Knox. Lynn.
muel Pricervey Coonrod	Vincennes	Prospect Hill.
rvey Coonrod	Bicknell	Enterprise.
omas Harris	Washington	Wheatland. Pine Knot.
lliam J. Brown	Bicknell	Pine Knot.
,	PARKÉ COUNTY.	
	1	
P. Harrison	Rockville	Harrison.
	Diamond	Brazil Block No. 12.
aries Doidge orge Doidge nes Lamb rry Milburn n Chesterfield omas Maxwell niel Isaac nes Cuthbertson bert Monkhouse	Coxville	Cox No. 3.
nes Lamb	Montezuma	Lucia. Lyford No. 1. Mary.
rry Milourn	Lyford	Morra No. 1.
in Chesterneld	Brazil Brazil Brazil	Mary.
DIES MAXWEIL	Brazil	Superior No. 1.
man Cuthboutson	Brazil	Mary. Superior No. 1. Superior No. 2. Superior No. 3. Minshall No. 1. Minshall No. 2.
nes Outingertson	Jaconn	Minehall No. 1
tt Rafile	Jessup	Minghall No. 2
n T Sommers	Carbon	Pan-American
nes Coakley	Carbon	Pan-American. Brazil Block No. 9.
mas Karrick	Coxville	Raccoon.
n T. Sommersnes Coakley	Rosedale	Parke No. 11.
orge Lindsay	Mecca	Mecca No. 4.

Troy.

## PIKE COUNTY.

Name.	Address.	Name of Mine
John Jones.	Ayrshire	
Bart Stinson	Ayrahire	Ayrshire No. 4.
John Willie John Willie	Petersburg	
Herman RoseBart Stinson	Littles	
George Briggs	Cabel	Hartwell.
John O. Johnson John Jenkins	Sophia	Carbon. Winslow No. 1.
John Jenkins		Winslow No. 5.

### SULLIVAN COUNTY.

J. V. Gustin	Farnsworth	Bunker Hill.
Murry Bledsoe	Caladonia	Caladonia.
W. F. Asbell	Dugger	Dugger.
Harry Evans.	Sullivan	Green Hill.
Asa Roberts	Hymera	Hymera No. 4.
John Griffith	Dugger	New Linton.
J. H. Needhammer	Jackson Hill	Jackson Hill No. 2.
George Sargent	Alum Cave	Phoenix No. 1.
Alexander Faulds	Alum Cave	Phoenix No. 3.
William Dempsy	Sbelburn	Shelburn.
I. H. Woolley	Del Carbo	Star City.
William Green	Hymera	White Ash.
O. H. Hendrickson	Dugger	Freeman.
Thomas Lehman	Dugger	Sun Flower.
Walter Phillips	Sullivan	Glendora.
Joseph Peters	Hymera	Hymera No. 2.
Edward Newport	Shelburn	Wilfred No. 1.
David Love	Dugger	Island No. 4.
James Taylor	Shelburn	Mammoth Vein.
William Jackson	Linton	Little Giant.
R. Sharp	Cummins	Cummins.
John D. Price	Farmersburg	La Blanche.
James Nolan	Sullivan	Citizens.
Ed. Shirkie	Farmersburg	Bruilettes Creek No. 6.
John McCloud	Sullivan	Mildred.
John Jordan	Sullivan	Virginia.
William Vanhorn	Farmersburg	Superior.
John Quigley	Linton	Shirley Hill.
Jacob Eck	Farmersburg	St. Clair.
A. Moreland	Jackson Hill	Jackson Hill No. 4.
Theodore Thompson	Hymera	Hymera No. 3.
A. L. Boyer	Shelburn	Kettle Creek.
A. D. Scott	Sullivan	Reliance.
James Stewart	Shelburn	Phoenix No. 4.
Martin Navin	Sullivan	Union.

### VANDERBURG COUNTY.

### VERMILLION COUNTY.

Name.	Address. Name of Min		
Thomas McQuade	Clinton	Bruilettes Creek No. 3.	_
Richard Moore	Clinton	Bruilettes Creek No. 5.	
Thomas Rose	Clinton,	Buckeye.	
R. M. Irwin	Cayuga	Eureka.	
Claud Peck	Clinton	Crown Hill No. 1.	
D. W. James	Clinton	Crown Hill No. 2.	
William Hutchinson	Clinton	Oak Hill.	
rank Christy	Clinton	Prince.	
Nick Walker	Clinton	Willow Grove.	
William Wilson	Clinton	Rhodes.	
A. P. Gilmoure	Clinton	Riverside.	
W. Walker	Clinton	Maple Valley No. 1.	
W. Walker	Clinton	Maple Valley No. 2.	

### VIGO COUNTY.

James Sidell	Atherton	Atherton.	
Art Thompson		Brick Works.	
James Markham	Coal Bluff	Chicago No. 6.	
James McGow	Burnett	Diamond.	
Charles Long,		Peerless.	
John Cain.		Lawton.	
Wesley Alvis		Seeleyville.	
W. F. Decker	Burnett	Grant No. 2.	
H. E. Wilson		Glen Oak.	
B. B. Barnett		Hector.	
James Boskill	Ehrmindale	Klondike.	
James Barker		Miami No. 1.	
Thomas Bingham		Parke No. 10.	
James Hawkins	West Terre Haute	Redbird.	
J. D. Lewis	Seeleyville	Rosebud No. 2.	
John Scott	Seeleyville	Royal.	
Eli Eller	West Terre Haute	Larimer.	
William L. Erwin	West Terre Haute	Broadhurst.	
W. J. Urwin	Brazil	Miami No. 2.	
Richard Morgan		Deep Vein.	
Josiah Pedlar	West Terre Haute	Greenfield No. 1.	
Henry Payne	Seeleyville	Lost Creek.	
George Doney		Sugar Creek.	
deorge West		Ray No. 2.	
James Burt		Miami No. 3.	
John Gilmour	Terre Haute	Forrest Park.	

## WARRICK COUNTY.

T. B. Hall John E. Kelley. P. F. Hargrove. John McCain. M. Wilson. Edwin Archbald William Mason. H. P. Kasemeir.	Boonville Boonville Chandle De Forrest	Big Four. Big Vein No. 3. Chandler. De Forrest. Star No. 1.	, .
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