

State inspector of coal mines reports

Section 99, Pages 2941 - 2970

These reports of the Kansas State Mine Inspector mostly concern coal mining, though by 1929 the scope of the reports broadens to include metal mines. The content of individual reports will vary. The reports address mining laws and mining districts; industry production and earnings; fatal and non-fatal accidents; accident investigations and transcripts of oral interviews; labor strikes; mine locations; mining companies and operators; and proceedings of mining conventions. The reports document the political, economic, social, and environmental impacts of more than seventy years of mining in southeastern Kansas.

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KANSAS
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COAL-MINE DIRECTORY OF SHAFT, SLOPE AND DRIFT MINES IN LEAVENWORTH COUNTY, KANSAS—CORRECTED TO DECEMBER 31, 1920.

Office No.	NAME OF COMPANY.	Mine number or name.	Post-office address of main office.	Post-office address of local office.	Name of superintendent.	Location of mine.						
						Section.	Township.	Range.	Distance from			
									Miles			
									North.	South.	East.	West.
1	Carr Coal Mining and Mfg. Co.	1	Leavenworth	Leavenworth	J. J. Glynn							Leavenworth.
2	Home River-side Coal Mines Co.	1	Leavenworth	Leavenworth	James Graham							Leavenworth.
3	Home River-side Coal Mines Co.	2	Leavenworth	Leavenworth	James Graham							Leavenworth.
4	Kansas State Penitentiary Mine.		Lansing	Lansing	Levi L. Day							Lansing.

COAL-MINE DIRECTORY OF SHAFT, SLOPE AND DRIFT MINES IN LEAVENWORTH COUNTY, KANSAS—CONCLUDED.

Office No.	Railroad connections.	Kind of opening.	Kind of hoist.	Number of feet deep.	Average height of coal.		Remarks.
					Feet.	Inch.	
1	A. T. & S. F.	Shaft	Steam	700	1	9	Resumed operation April, 1920, idle several years.
2	U. P. & Mo. Pac.	Shaft	Steam	720	1	10	
3	Union Pacific	Shaft	Steam	720	1	10	
4	Mo. Pac., K. C. & N. W.	Shaft	Steam	720	1	9	

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Department of Labor and Industry.

COAL-MINE DIRECTORY OF SHAFT, SLOPE AND DRIFT MINES IN LINN COUNTY, KANSAS—CORRECTED TO DECEMBER 31, 1920.

Office No.	NAME OF COMPANY.	Mine number or name.	Post-office address of main office.	Post-office address of local office.	Name of superintendent.	Section.	Township.	Range.	Distance from	City or town.
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COAL-MINE DIRECTORY OF SHAFT, SLOPE AND DRIFT MINES IN LINN COUNTY, KANSAS—CORRECTED TO DECEMBER 31, 1920.

Office No.	NAME OF COMPANY.	Mine number or name.	Post-office address of main office.	Post-office address of local office.	Name of superintendent.	Location of mine.							
						Section.	Township.	Range.	Distance from				
									Miles				City or town.
									North.	South.	East.	West.	
1	American Eagle Coal Co.		Joplin, Mo.	Pleasanton.	C. E. Baker			1					Pleasanton.
2	Black Diamond Coal Co.		La Cygne.	La Cygne.	J. A. Stevens							1/2	La Cygne.
3	East Side Coal Co.		La Cygne.	La Cygne.	H. Harbert	3	20	24			3		La Cygne.
4	Grimmell Coal Co.		Worland, Mo.	Worland, Mo.	A. A. Gremmell	24	21	25			6		Pleasanton.
5	Kaw Valley Coal and Mining Co.		Kansas City, Mo.	La Cygne.	J. R. Bauman	15	21	24			2		La Cygne.
6	Kinser Coal Co.		Amsterdam, Mo.	Amsterdam, Mo.	Jeese Kinser								
7	Linn County Coal Co.		Pleasanton.	Pleasanton.	John Valentine	28	29	25	1/2		21 1/2		Pleasanton.
8	Menahim & Valentine Coal Co.		Pleasanton.	Pleasanton.	John Valentine	28	29	25	1/2		21 1/2		Pleasanton.
9	Pittsburg-Pleasanton Coal Co.		Pleasanton, R.F.D. 1.	Pleasanton, R.F.D. 1.	S. A. Brittingham						2		Worland, Mo.
10	Pleasanton Coal and Mining Co.		Pleasanton.	Pleasanton.	Silvio Pallone	29	21	25			11 1/2		Pleasanton.
11	Stanton Coal Co.		Worland, Mo.	Worland, Mo.	Roy Stanton						2		Worland, Mo.
12	Thirrell Coal Co.		Pleasanton.	Pleasanton.	D. W. White			1					Pleasanton.
13	Waltbeer Coal Co.		Pleasanton.	Pleasanton.	A. G. Pippin						2 1/2		Pleasanton.

Office No.	Railroad connections.	Kind of opening.	Kind of hoist.	Number of feet deep. *	Average height of coal.		Remarks.
					Feet.	Ins.	
1	St. L. & S. F.	Shaft	Steam	107	2	4	—
2	St. L. & S. F.	Shaft	Steam	120	3		—
3	None	Shaft	Horse	50	2	4	—
4	Mo. Pac.	Slope	Steam	60	2	10	—
5	St. L. & S. F.	Shaft	Steam	60	3		—
6							—
7	Mo. Pac.	Shaft	Steam	42	2	6	—
8	Mo. Pac.	Shaft	Gasoline	60	2	6	—
9	None	Shaft	Steam	41	2	10	—
10	Mo. Pac.	Shaft	Steam	90	2	4	—
11	Mo. Pac.	Slope	Gasoline	50	2	10	—
12	St. L. & S. F.	Shaft	Horse	107	2	4	—
13	None	Shaft	Steam	45	2	10	—

Mine Inspection Department.

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COAL-MINE DIRECTORY OF SHAFT, SLOPE AND DRIFT MINES IN OSAGE COUNTY, KANSAS—CORRECTED TO DECEMBER 31, 1920.

Office No.

NAME OF COMPANY.

Mine number or name.

Post-office address of main office.

Post-office address of local office.

Name of superintendent.

Section.

Township.

Range.

Miles

North.

South.

East.

West.

Distance from City or town.

1

Cahill Coal Co., (R. J.)

Klondike

Osage City

Osage City

R. J. Cahill

22

16

14

3/4

3/4

Osage City.

2

Carlson Coal Co., (S. J.)

7

Osage City

Osage City

S. J. Carlson

23

16

14

3/4

3/4

Osage City.

3

Carlson Coal Co., (S. J.)

30

Osage City

Osage City

S. J. Carlson

14

16

14

2 1/4

1/2

Osage City.

4

Central Coal and Mining Co

2

Burlingame

Burlingame

Neal Hotchkiss

15

15

15

Burlingame.

5

Coughlin Coal Co., (J. C.)

4

Osage City

Osage City

John T. Coughlin

12

16

14

3/4

1/2

Peter on.

6

Elliott Coal Co., (Geo.)

Comet

Burlingame

Burlingame

Geo. Elliott

12

16

14

3/4

1/2

Burlingame.

7

Granstrom Coal Co., (A. W.)

10

Osage City

Osage City

A. W. Granstrom

12

15

14

Osage City.

8

Graybill & Kitterell Coal Co.

1

Osage City

Osage City

Thos. Herron

16

14 1/2

Osage City.

9

Herron Coal Co., (Thos.)

14

Osage City

Osage City

Andrew Andreen

8

15

15

Osage City.

10

Jackson-Walker Coal and Mining Co.

1

Osage City

Osage City

Henry Gilley

9

15

15

Osage City.

11

Labor Exchange Coal and Mining Co.

14

Kansas City, Mo

Kansas City, Mo

John Gitsinger

14

16

14

Osage City.

12

Labor Exchange Coal Association.

Osage City

Osage City

W. J. Miller

12

15

14

Osage City.

13

Miller Coal Co.

Burlingame

Burlingame

Ed Clift, Jr.

22

16

14

1

2

Burlingame.

14

Miners Fuel Co.

Red Top

Osage City

Osage City

James O'Neil

22

16

14

1/2

1/2

Osage City.

15

Miners Fuel Co.

2

Osage City

Osage City

K. Segequist

6

15

15

3/2

1/2

Osage City.

16

O'Neil Coal Co., (James)

1

Osage City

Osage City

James McKinley

8

15

15

3/2

1

Osage City.

17

Segequist Coal Co.

1

Seranton

Seranton

G. W. Strunk

14

15

14

Seranton.

18

Standard Coal Co.

1

Seranton

Seranton

Burlingame.

19

Standard Coal Co.

2

Seranton

Seranton

20

Strunk Coal Co.

2

Burlingame

Burlingame

21

Treble, Gilchrist & Tendell

22

Washington Coal Co.

23

Western Fuel Co.

Green Top

Osage City

Osage City

John H. Forra

22

16

14

Osage City.

24

White Coal Co., (E. S.)

Osage City

Osage City

E. S. White

22

16

14

Osage City.

25

Midway Coal and Mining Co.

Burlingame

Burlingame

C. Jacoby

7

15

15

1 1/2

2 1/2

Seranton.

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COAL-MINE DIRECTORY OF SHAFT, SLOPE AND DRIFT MINES IN OSAGE COUNTY, KANSAS—CONCLUDED.

Office No.	Railroad connections.	Kind of opening.	Kind of hoist.	Number of feet deep.	Average height of coal.		Remarks.
					Feet.	Inch.	
1	Mo. Pac.	Shaft	Horse	85	1	2	
2	Mo. Pac.	Shaft	Electric	60	1	4	
3	A. T. & S. F.	Shaft	Electric	60	1	6	
4	A. T. & S. F.	Shaft	Horse	110	1	6	
5	None	Shaft	Horse	27	1	2	
6	A. T. & S. F.	Shaft	Steam	140	1	6	
7	None	Shaft	Horse	50	1	2	
8	None	Shaft	Horse	22	1	4	
9	None	Shaft	Horse	22	1	4	
10	A. T. & S. F.	Shaft	Horse	45	1	6	
11	A. T. & S. F.	Shaft	Horse	90	1	5	
12	A. T. & S. F.	Shaft	Electric	70	1	3	
13	A. T. & S. F.	Shaft	Steam	110	1	6	
14	Mo. Pac.	Shaft	Electric	80	1	4	
15	None	Shaft	Horse	62	1	6	
16	None	Shaft	Horse	90	2	6	
17	A. T. & S. F.	Shaft	Horse	43	1	4	
18	A. T. & S. F.	Shaft	Horse	90	1	6	
19	A. T. & S. F.	Shaft	Horse	90	1	6	
20	A. T. & S. F.	Shaft	Horse	90	1	6	
21	A. T. & S. F.	Shaft	Horse	90	1	6	
22	Mo. Pac.	Shaft	Electric	75	1	5	
23	Mo. Pac.	Shaft	Horse	80	1	2	
24	A. T. & S. F.	Shaft	Horse	101	1	6	
25	A. T. & S. F.	Shaft	Horse	101	1	6	

Mine Inspection Department.



PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—FOR BOURBON COUNTY, DEEP MINES.

Office No.	NAME OF OPERATOR.	Mine No.	Total production classified.				Average total number of employees, classified as to work.					Total number of days worked.	Total explosives used.		Total number of accidents.	
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.	Mines.	Under-ground day men.	Total under-ground.	Top day men.	Average total of employees.		Total number of 25-pound kegs of powder used.	Total number of pounds of dynamite used.	Fatal.	Non-fatal.
1	Black Diamond Coal Co.		1,312			1,312	4	2	6	1	7	281	14	35		
2	Ware Coal Co. (J. C.)		648			648	3		3		3	150				
3	Webb Coal Co. (W. E.)				2,900	2,900	2		2		2	70				
	Totals		1,960		2,900	4,860	9	2	11	1	12	Av. 250	14	35		

PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—BOURBON COUNTY, STRIP MINES.

Office No.	NAME OF OPERATOR.	Mine No.	Total production classified.				Average total of employees.	Total number of days worked.	Total explosives used.		Total number of accidents.	
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.			Total number of 25-pound kegs of powder used.	Total number of pounds of dynamite used.	Fatal.	Non-fatal.
1	Menghini & Costantino Coal Co.	1			7,500	7,500	40	200	50	1,500		

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Department of Labor and Industry.



State inspector of coal mines reports

PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—CHEROKEE COUNTY, DEEP MINES.

Office No.	NAME OF OPERATOR.	Mine No. o. name.	Total production classified.			
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.
1	Atkinson Coal Co.	35			4,741	4,741
2	Batten Mining Co.				923 8	923 8
3	Berry, Wright & Clark Coal Co.				1,373	1,373
4	Braidwood Coal Co.				2,543 5	2,543 5
5	Britton & Palford Coal Co.				1,880	1,880
6	Brohl & Grossinger Coal Co.				411 5	411 5
7	Browning Coal Co.				492	492
8	Bruce & Purard Coal Co.				5,198	5,198
9	Brumback-Richardson Coal Co.		468	100	900	1,188
10	Butler Bros. Coal Co.				900	900
11	Caput Coal Co., (Thos.)	2	18,789 45	6,812 50	4,067 85	29,669 80
12	Cherokee Crescent Coal Co.	17	41,247	11,920 45	3,073 80	56,241 25
13	Clemens Coal Co.				2,180	2,180
14	Colvin Coal Co.				1,377 98	1,377 98
15	Coles & Lums Coal Co.					
16	Coom & Stevens Coal Co.				4,673	4,673
17	Corliss Bros. Coal Co.				3,668	3,668
18	Corliss-Davidson Coal Co.				1,560	1,560
19	Cunningham Coal Co.				3,800	3,800
20	Diamond Coal Co.				3,714	3,714
21	Earl & Fuller Coal Co.				3,655 80	3,655 80
22	Floquet Coal Co.					
23	Frey & Hughes Coal Co.				330	330
24	Guy Coal Co.				4,965	4,965
25	Harrison & Clegg Coal Co.				2,065	2,065
26	Horsley-Orr Coal Co.				7,086 15	7,086 15
27	Kilger Bros. Coal Co.				4,433	4,433
28	Larsen, Morris & Connor Coal Co.				1,203	1,203
29	Legett Coal Co.				4,651	4,651
30	Lightning Creek Coal Co.		1,812	1,692	4,651	4,651
31	Lone Star Coal Co.	H			1,028	1,028
32	Mackie Fuel Co.				3,155	3,155
33	Mallams-Halstead Coal Co.		419	1,896	52,562	52,562
34	Manley Coal Co., (Oscar)				427	427
35	Mason Coal Co., (W. R.)				76	2,391
36	McGregor Coal Co.				816	816
37	McNary Coal Co.				2,209	2,209
38	Mineral Coal Co.				6,083	6,083

Mine Inspection Department.



PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—CHEROKEE COUNTY, DEEP MINES—CONTINUED.

Office No.	NAME OF OPERATOR.	Mine No. or name.	Total production classified.			
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.
39	Mummet Coal Co.					
40	Mummet Coal Co.	1				
41	Myers-Blake Coal Co.	2			640	640
42	Newlands Coal Co.				4,360	4,360
43	Newlands Coal Co.				2,266	2,266
44	Newlands & Haynie Coal Co.	1			1,200	1,200
45	Pankin Coal Co., (A. W.)	2			868	868
46	Pankin Coal Co., (Henry)	10 1/4			10,541	10,541
47	Patterson-Myers Coal Co.	10 1/4			4,883	4,883
48	Penrod & Sims Coal Co.	10 1/4			945	945
49	O'Neal Coal Co., (Wm.)				1,500	1,500
50	Robinson Coal Co., (John)				767	767
51	Robinson Bros. Coal Co.				442	442
52	Robinson Bros. Coal Co.				4,400	4,400
53	Russell Coal Co.	2			831	831
54	Russell Coal Co.	4			1,395	1,395
55	Russell Coal Co.	6			27,561 65	27,561 65
56	Russell Coal Co.	7			53,022 85	53,022 85
57	Ryan Coal Co., (Ed)	11			44,027 17	44,027 17
58	Ryan Coal Co., (Joe)	20			31,943 80	31,943 80
59	Scherherr Coal Co.	5	57,600	28,800		86,400
60	Scott & Dilaver Coal Co.				8,885	8,885
61	Sine Coal Co.				2,505	2,505
62	St. Paul & Keiri Coal Co.				2,072 75	2,072 75
63	Smiri & Brassart Coal Co.				4,664	4,664
64	Stodgrass Coal Co.				2,602	2,602
65	Southeastern Coal Co.	10 1/4			2,270	2,270
66	Southern Coal Co., (Priest)				1,566	1,566
67	Southern Coal Co., (Retentier)				11,434	11,434
68	St. Paul Coal Co.				1,000	1,000
69	Shahine Coal Co.				5,910 70	5,910 70
70	Taber-Grigg Coal Co.				4,460	4,460
71	Thies-Nelson-Hallam Coal Co.				1,182 86	1,182 86
72	Thompson Bros. Coal Co.				1,937 8	1,937 8
73	Tuner & Sen Coal Co.		304		900	3,120 66
74	Union Coal Co.				3,542	3,542
75	Vanduker Coal Co.				4,330 1	4,330 1
76	Walsh Bros. Coal Co.				6,286	6,286
					5,467	5,467

77	Ward Coal Co., (James)					
78	Western Coal and Mining Co.	21	26,774 55	14,321 30	1,353 05	42,448 90
79	Witty & Brohl Coal Co.			193	397	590
80	Woods & Cuthall Coal Co.				150	150
81	W. W. B. Coal Co.	1			3,838	3,838
82	W. W. B. Coal Co.	2	282	514	532	1,328
83	Young Coal Co., (John M.)	1			31,913 95	31,913 95
84	Young Coal Co., (G. A.)	1			2,362	2,362
	Totals		148,878 86	70,957 05	447,450 40	667,286 31

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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—CHEROKEE COUNTY, DEEP MINES—CONTINUED.

Office No.	Average total number of employees, classified as to work.					Total number of days worked.	Total explosives used.		Total number of accidents.		Remarks.
	Mines.	Under-ground day men.	Total under-ground.	Top day men.	Average total of employees.		Total number of 25-pound kegs of powder used.	Total number of pounds of dynamite used.	Fatal.	Non-fatal.	
1	7	1	8	2	10	150½	303				
2		5	5	2	7	96		1,200			Began operating third quarter.
3		3	3	1	4	100	30				Began operating in May; abandoned December 24.
4	4	1	5	1	6	190	327				
5	4		4	2	6	113	220	200			Mine abandoned July 1, 1920.
6	1	1	2	1	2	24	28				Began operating October, 1920.
7		4	4	1	5	50	50				Began operating October, 1920.
8	6	2	8	1	9	213	581				
9		2	2	1	3	183	92	400			
10		2	2	1	3	42	40	30			Began operating October, 1920.
11		5	5	1	7	63	45	110			Began operating July, 1920.
12	29	9	38	5	43	249½	2,570	11,305			
13	43	15	58	7	65	205	3,182	39,850		10	
14	2	2	4	1	3	257	47	400			
15	3	3	6	1	4	128	87	200			Began operating April, 1920.
16											Mine abandoned January, 1920; no coal produced.
17		7	7	1	8	184	216	2,900		2	
18		7	7	1	8	195	180	2,300			
19	3	1	4	1	5	195	125	2,400			
20	4	4	8	1	5	202	465	1,250			
21		3	3	2	5	111	2,100	3,250			
22											Ceased operating as Earl & Fuller Coal Co. October, 1920.
23	3	3	6	1	4	50	22				No coal produced during 1920; mine abandoned.
24	5	1	6	2	8	192	366				Abandoned March 10, 1920.
25		2	2	1	3	203	105	122			
26	2	9	11	1	12	172	500	2,075			
27	8	1	9	2	11	183	292	475			
28	3		3	1	4	124	125	20			
29		5	5	1	6	192	172	2,130		2	
30	17	10	27	3	30	103½	65	1,500			Successors to Tabor-Grigg Coal Co.; began operating July 1, 1920.
31	12	4	16	2	18	114	199	721		1	Began operating July 1, 1920.
32	40	15	55	8	63	251½	3,292	34,960		1	Company ceased operating March 31, 1920.
33	3	3	6	1	4	27	30	5			Mine abandoned March, 1920.
34	18	4	22	2	24	42	129	88			
35	7		7	1	8	55	46	25			Began operating September 10, 1920.
36											No coal produced during 1920; mine abandoned.
37						109	164	330			
38	10	2	12	1	13	289	1,560	2,000			Mine abandoned March 31, 1920.
39	6	6	12	1	7	45	32	40			Began operating April 1, 1920.
40	4	3	7	1	5	110	285	260			
41	1	4	5	1	5	141	194	140		1	
42	9	1	10	1	11	52	70	620			Mine abandoned March 31, 1920.
43	8	4	12	4	16	149	80	1,050			New mine; began developing August, 1920.
44	10	3	13	2	15	149	530	3,125			
45	20	6	26	2	28	39	275				Leased to Henry Panknin July 15 to Sept. 23; leased to H. C. Snodgrass Sept. 23.
46	8	1	9	1	10	26	76	250			Leased from A. W. Panknin from July 15 to September 23.
47	4		4	1	5	150	110	120			Estimated.
48		4	4		4	102	17	400			
49		3	3	1	4	50	100				Began operating October, 1920.
50	5	1	6	1	7	178	180	4,400			
51	5		5	1	6	43½	75	200			Mine abandoned March 31, 1920.
52	3	1	4	1	5	93	80	1,050			
53	30	11	41	5	46	204½	2,338	9,230			
54	51	18	69	7	75	256½	4,592	11,630		1	
55	50	17	67	8	75	188½	3,712	10,109			Tipple burned June 24, 1920; resumed operations September 9, 1920.
56	27	14	41	7	48	233½	1,807	13,378		2	Last six months estimated; company failed to send reports.
57	59	23	82	8	90	260	6,090	8,500		1	Mine abandoned June, 1920.
58	19	5	24	3	27	124	717	1,750			Mine began operating March 1, 1920.
59	3	3	6	2	5	175	175	250			New mine; began operating February, 1920.
60		3	3	1	4	160	158	1,450			
61		36	36	1	37	138	212	3,900			
62	5	1	6	1	7	117	235	2,400			
63	3	3	6	1	4	168	170	700			
64	6	2	8	1	9	64	74	750			Leased from A. W. Panknin September 23, 1920.
65	17	3	20	2	22	136¼	765	2,259		2	
66	15	3	18	1	19	40	100				Sold to John Petentier March, 1920.
67	15	3	18	1	19	106	481	500			Successors to J. H. Price April 1, 1920.
68											No reports received from company.
69	7	7	14	4	11	182	600	500			Succeeded by Lightning Creek Coal Co.
70	17	12	29	3	32	84	190	750			Began operating October 1, 1920.
71	3	3	6	2	5	30	50	250			
72	1	8	9	2	10	156	570				
73	5	5	10	4	9	148½	277				
74	7	2	9	1	10	151	302	1,453			
75		9	9	1	10	194	560	3,900			
76	5	5	10	2	7	220		1,200			
77											Mine abandoned January 1, 1920; no coal produced during 1920.
78	94	15	79	9	88	123½	2,430	31,890		1	Began operating October, 1920; abandoned December, 1920.
79	3		3	2	5	26	23	200			Began operating December, 1920.
80	4	4	8	1	5	205	279	200			
81	4	4	8	1	5	205	279	200			Began operating November, 1920.
82	7	1	8	1	9	36	102	50			
83	4	8	12	2	47	231	1,628	15,110			
84	4	1	5	2	7	116	130	550			Mine closed down March 7, to June 30.
Total	736	303	1,129	173	1,302	Av. 200	48,374	244,985	2	63	

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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—CHEROKEE COUNTY, STRIP MINES.

Office No.	NAME OF OPERATOR.	Mine No.	Total production, classified.				Average total of employees.	Total number of days worked.	Total explosives used.		Total number of accidents.	
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.			Total number of 25-pound kegs powder used.	Total number pounds of dynamite used.	Fatal.	Non-fatal.
1	Boore Coal Co. (a)				8,000	8,000	5	177	30	80		
2	Carbon Coal Co. (b)	1			21,458	21,458	17	68	102	1,375		4
3	Carbon Coal Co.	2			73,278	73,278	22	152	348	4,700		6
4	Crowe Coal and Mining Co.	22	5,211 15	19,133 85	14,728 60	39,073 60	25	81	609	1,577		4
5	Crowe Coal and Mining Co.	23	11,677 90	18,126 80	27,055 80	56,860 50	29	102	675	3,055		4
6	Dorsey Bros. Coal Co. (c)	1			3,500	3,500	4	130	100	150		
7	Fleming Coal Co.	3	736 30	23,554 90	6,983 90	31,275 10	30	123	441	1,140		1
8	Huntsinger & Smith Coal Co.	1			9,240	9,240	6	175	35	100		
9	Huckleberry Coal Co. (d)				8,000	8,000	5	177	30	80		
10	Italian Coal Co. (John)	1	350	2,761	24,413	27,526	30	269		3,950		
11	Patton Coal Co. (e)	1			5,000	5,000	6	200	100	250		
12	Seroggins Coal Co., (W. T.)	1			2,163	2,163	5	200	116	700		
13	Skidmore-Patterson Coal Co.	2			35,066	35,066	21	100	720	4,100		2
14	Southern Kansas Coal Co.		338 40	5,889 20	944 60	7,072 20	19	97	583	425		1
15	Superior Coal and Mining Co.		13,344 30	27,808 73	16,777 55	57,930 60	30	137	520	2,900		
	Totals		31,858 05	96,974 50	256,610 45	385,443 00	255	151	4,409	24,582		22

(a) Estimated.
(b) Abandoned July 7, 1920.
(c) Estimated.
(d) Estimated.
(e) Estimated.



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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—CRAWFORD COUNTY, DEEP MINES.

Office No.	NAME OF OPERATOR.	Mine No. or name.	Total production classified.			
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.
1	A. C. Coal Company.....	1			500	500
2	Acme Coal Company.....	2			2,852	2,852
3	Adams & Duff Coal Co.....	1			4,687.65	4,687.65
4	Anderson & Jenkins Coal Co.....	1			1,631	1,631
5	Arma Coal Co.....	8	7,118.30	4,158.875	4,807.525	16,084.70
6	Barrett Coal Co., (W. H.).....	1			2,469.80	2,469.80
7	Benson Bros. Coal Co.....	1				
8	Big Four Coal Co.....	1			6,072.99	6,072.99
9	Black Diamond Coal Co.....	1			5,418	5,418
10	Boury Coal Co., (John).....	1			1,390	1,390
11	Broadhurst Bros. Coal Co.....	2			4,992	4,992
12	Broadhurst Bros. Coal Co.....	2				1,480
13	Brown Bros. Coal Co.....	1	1,060	420		
14	Calhoun Curley Coal Co.....	1				
15	C. B. & M. Coal Co.....	1			209	209
16	Carnsey-Cherokee Coal Co.....	2	2,013	9,952	16,083	28,048
17	Central Coal & Coke Co.....	45	90,806	49,997	1,028	141,831
18	Central Coal & Coke Co.....	48	53,208	33,749	1,091	88,048
19	Central Coal and Coke Co.....	49	52,206	54,820	259	107,285
20	Central Coal and Coke Co.....	50	39,738	54,346	23,323	117,407
21	Central Coal and Coke Co.....	51	25,535	199,756	29,029	211,320
22	Chapman & Westervelt Coal Co.....	1			5,064	5,064
23	Clemens Coal Co.....	B. turtle, 15			7,744.05	7,744.05
24	Clemens Coal Co.....	16			23,001.45	23,001.45
25	Clemens Coal Co.....	18	7,310.35	40,288.92	1,072.46	48,671.73
26	County Line Coal Co.....	1			18,339.40	18,339.40
27	Crowe Coal and Mining Co.....	14	37,505.80	21,256.20	986.70	59,748.70
28	Crowe Coal and Mining Co.....	15	27,687.50	10,750.15	898.05	39,335.70
29	Crowe Coal and Mining Co.....	16	67,879.05	24,084.55	881.55	92,944.05
30	Crowe Coal and Mining Co.....	21	43,648.40	18,913.50	16,901.53	79,463.43
31	Darrow & Sheward Coal Co.....	1			2,428.14	2,428.14
32	Davis Coal Co., (Robert).....	1			9,135	9,135
33	Davis Coal Co., (Wm.).....	1				
34	Davis Coal Co., (Fuller, Kan.).....	1			4,820	4,820
35	Davis Coal Co., (Chas.).....	1			10,000	10,000
36	Dittman-Wachter Coal Co.....	1				
37	Dittman-Wachter Coal Co.....	2			14,656	14,656
38	Dittman-Wachter Coal Co.....	3			19,119	19,119

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Kansas Memory

State inspector of coal mines reports



KANSAS
HISTORICAL
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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—CRAWFORD COUNTY, DEEP MINES—CONTINUED.

Office No.	NAME OF OPERATOR.	Mine No. or name.	Total production classified.			
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.
39	Domestic Fuel Co.	2	27,910.55	14,644.45	240	42,795
40	Domestic Fuel Co.	3				
41	Doubleday Coal Co.	1			134,685	134,685
42	Duncan-Dixon Coal Co.	1			2,364	2,364
43	East Washington Coal Co.	1			4,944	4,944
44	Economy Coal & Mining Co.	1				
45	Enlo & French Coal Co.	1				
46	Faulkner Coal Co.	12	20,106	13,868	9,942	43,916
47	Faulkner Coal Co.	14	22,015	32,849	1,406	56,270
48	Ferguson, Phillips & Willey Coal Co.	1				
49	Forest Coal Co.	1			8,352	8,352
50	Fox Coal Co. (Wm.)	1				
51	Frontenac Coal Co.	1				
52	Gerwert & Waugh Coal Co.	1			36,969.90	36,969.90
53	Girard Coal Co.	7	13,935.80	42,062.15	318.50	56,316.45
54	Girard Fuel Co.	9	6,060.58	8,220.42		14,281
55	Globe Coal and Mining Co.	1			2,646.59	2,646.59
56	Goodman Coal Co.	1			8,500	8,500
57	Graham & Simon Coal Co.	1			15,863	15,863
58	Grassi Coal Co. (E.)	1			1,927	2,227
59	Gross Coal Co.	1	200	100	1,250	1,250
60	Gubbio Coal Co.	1			13,012	13,012
61	Hamilton Coal and Mercantile Co.	6	16,032.32	4,455.05	35,963.35	54,451.72
62	Hamilton Coal and Mercantile Co.	7	4,894.79	13,735.13	4,178.18	22,828.10
63	Hamilton Coal and Mercantile Co.	9	25,714.60	15,436.71	11,761.35	52,912.66
64	Harrigan Bros. Coal Co.	1			724	724
65	Helm & Quinn Coal Co.	1			500	500
66	Howe Coal Co.	1			103	64,691.10
67	Howe Coal Co.	19	37,003.00	27,584.20	1,092.25	70,465.70
68	Interurban Coal Co.	1	34,733.25	34,640.20		
69	Jackson-Walker Coal and Mining Co.	11			115,836.90	115,836.90
70	Jackson-Walker Coal and Mining Co.	15			65,003.30	65,003.30
71	Jackson-Walker Coal and Mining Co.	16			138,315.70	138,315.70
72	Jackson-Walker Coal and Mining Co.	17			140,755.20	140,755.20
73	James Bros. Coal Co.	1				
74	Jones & Davis Coal Co.	1			8,199	8,199
75	Kansas Coal Co.	1			25,778.781	25,778.781
77	Katy Coal Co.	2	20,006.84	79,783.80	1,900	100,480.64
78	Kennedy Coal Company	1			1,900	1,900
79	Lee & Burger Coal Co.	1			6,525	6,525
80	Liberty Coal Co.	1			4,700	4,700
81	Line Coal Co.	1			2,270	2,270
82	Lone Star Coal Co.	1				
83	Lynch Coal Co.	1			57,820	57,820
84	Mackie Fuel Co. (Geo. K.)	2			31,726.70	31,726.70
85	McGrath Coal Co. (Geo. T.)	1			4,179.80	4,179.80
86	Merts Bros. Coal Co.	1			11,174.6	11,174.6
87	Merts & Mahanash Coal Co.	3			13,018.55	13,018.55
88	Morgan-Hupperfelt Coal Co.	3			9,644.80	9,644.80
89	Morgan-Hupperfelt Coal Co.	6			23,272.25	23,272.25
90	Morgan-Hupperfelt Coal Co.	1			1,964	1,964
91	O'Neal & Reed Coal Co.	1				
92	Partell Coal Co.	1				
93	Patton Coal and Mining Co.	5			19,678.30	19,678.30
94	Patton Coal and Mining Co.	2			15,151	15,151
95	Pittsburg Coal Co.	3				
96	Pittsburg Coal Co.	1			800.55	66,767.35
97	Panilla & Grieg Coal Co.	8	39,714.75	26,252.65	15,589.72	15,589.72
98	Pittsburg-Northern Coal Co.	9			3,300	3,300
99	Porphir Coal Co.	1			4,374	4,374
100	Progressive Coal Co.	1				
101	Red Orion Coal & Mining Co.	1			5,600	5,600
102	Reed & Gladioux Coal Co.	1				
103	Reed Coal Co. (Jas.)	2				
104	Reliance Coal Co. (Jas.)	1				
105	Sale Coal Co. (W. H.)	1				
106	Sanders & Friend Coal Co.	15			3,221.80	3,221.80
107	Scrappin & Dorman Coal Co.	1			2,347.225	16,596.550
108	Simon Coal Co. (Carlon)	9	3,794.375	10,454.950	10,945	10,945
109	Simon Coal Co. (Carlon)	1			750	750
110	Simon Coal Co. (Dan)	1			300	300
111	Simon Coal Co. (Dave)	1			3,222	3,222
112	Simon Coal Co. (Frank)	3	5,713.30	2,222.65	39.35	7,983.30
113	Sheridan Coal Co.	7	28,834.45	88,376.05	1,408.70	117,219.50
114	Sheridan Coal Co.	10	29,821.85	41,520.95	1,408.70	72,751.60
115	Sheridan Coal Co.	11	18,493.55	6,806.60	1,234.75	26,534.90
116	Sheridan Coal Co.	15	15,969.95	21,992.15	2,722.15	40,684.25
117	Sheridan Coal Co.	1			1,900.425	1,900.425
118	Smelter Hill Coal Co.	7	35,137.65	13,032.03	25,858.45	74,028.13
119	Spencer-Newlands Coal Co.	9	31,046.80	13,738.35	26,024.95	71,410.10
120	Spencer-Newlands Coal Co.	1				
121	Stuckey Coal Co. (C. B.)	1				
122	Stephenson Coal Co. (L. C.)	1			7,341	7,341
123	Superior Coal Co. (Degasper)	1			15,140.32	15,140.32
124	Star Coal Co.	1	300	310	580	1,280
125	Tanner & Lindsey Coal Co.	1			650	650
126	Tavernier & Darigo Coal Co.	1			2,678	2,678
127	Terpin Coal Co. (John)	1				

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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—CRAWFORD COUNTY, DEEP MINES—Continued.

Office No.	NAME OF OPERATOR.	Mine No.	Total production classified.			
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.
128	T. R. & G. Coal Co.	1			22,576.95	22,576.95
129	Union Coal Co.	1			1,500	1,500
130	Victor Coal Co., (Kansas)	1			3,889.33	3,889.33
131	Victor Coal Co., (O'Leary)	1			7,500	7,500
132	Wallace Coal Co.	1				
133	Wear Coal Co.	1				
134	Wear Coal Co.	17	8,373.98	29,659.39	174.85	38,108.22
135	Western Coal and Mining Co.	21	48,824.11	73,699.85	4,203.51	126,727.47
136	Western Coal and Mining Co.	10	12,500.65	19,390.65		31,890.70
137	Western Coal and Mining Co.	13	13,796.60	53,024.60	2,787.90	69,589.10
138	Western Coal and Mining Co.	14	20,531.60	39,434.69	2,735.45	62,701.74
139	Western Coal and Mining Co.	15	64,542.22	38,846.57	6,802.35	130,191.14
140	Western Coal and Mining Co.	16	25,927.65	102,322.21	2,777.02	131,026.91
141	Western Coal and Mining Co.	18	41,628.42	80,563.66	2,754.30	133,945.96
142	Western Coal and Mining Co.	19	42,317.00	39,818.50	2,419	84,555.10
143	West Union Coal Co.	20	49,700.72	43,934.29	5,942.40	99,667.41
144	Wilbert-Schub Coal Co.	1				
145	Wilkinson Coal Co., (Wm.)	1	885.85	7,024.30	9,503.90	17,418.05
146	Wiley Coal and Mining Co.	1			8,544	8,544
147	Wilson Bros. Coal Co.	1				
148	Windmill Coal Co.	1	1,167	440	622	2,229
149	Whetstone & Feicha Coal Co.	1			1,391.30	1,391.30
150	Young Coal Co., (John M.)	1			7,783	7,783
151	Young Coal Co., (John M.)	9			32,055.44	32,055.44
152	Y. G. & V. Coal Co.	2			27,294.65	27,294.65
153	Whitehead Coal Co.	1			5,763.20	5,763.20
154	Nevin Coal Co., (Alex.)	1			1,425.4	1,425.4
	Totals		1,222,107.685	1,551,940.225	1,530,536.20	4,304,584.11

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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—CRAWFORD COUNTY, DEEP MINES—CONTINUED.

Office No.	Average number of employees, classified as to work.					Total number of days worked.	Total explosives used.		Total number of accidents.		Remarks.
	Miners.	Under-ground day-men.	Average total under-ground.	Top day-men.	Average total of employees.		Total number of 25-pound kegs of powder used.	Total number of pounds of dynamite used.	Fatal.	Non-fatal.	
1	5	1	6	2	8	62	85	350	.....	.....	Began operating September, 1920.
2	15	4	19	3	22	56	313	2,673	.....	.....	New mine; began operating September, 1920.
3	4	1	5	1	6	502½	129	2,775	.....	.....
4	5	5	10	1	11	91	70	2,509	.....	.....	New mine; began operating August, 1920.
5	21	3	24	3	27	204½	1,477	4,432	.....	.....	Lensed from Hamilton Coal and Mercantile Co.
6	12	2	14	2	16	70	121	1,132	.....	.....	New mine; began operating July, 1920; mine flooded October 1, 1920.
7									.....	.....	No coal produced during 1920.
8	7	1	8	1	9	228	425	2,250	.....	.....	Successors to Bourg Coal Co.
9	18	3	21	4	25	46	421	1,180	.....	.....	Changed to T. R. & G. Coal Co. April 13, 1920.
10									.....	.....	Produced no coal during 1920; succeeded by Big Four Coal Co.
11	6	6	12	2	8	78	88		.....	.....	Mine abandoned April 1, 1920.
12		14	14	3	17	106	360	600	.....	.....	Successors to Harrigan Bros. Coal Co.
13	4		4	1	5	75	140		.....	.....	New mine; began operating August, 1920.
14									.....	.....	Produced no coal during 1920; succeeded by Chas. Davis Coal Co.
15	2		2		3	30	30	100	.....	.....	New mine; began operating October, 1920.
16	40	8	48	5	53	215	1,749	38,565	.....	7	
17	150	62	212	11	223	214	10,005	83,882	.....	39	
18	86	41	127	10	137	200¾	5,475	90,061	.....	1	57
19	143	56	199	23	222	212¼	7,073	78,720	.....	31	
20	136	47	183	13	196	188	5,350	127,620	.....	50	
21	240	72	312	14	326	200	7,062	218,400	.....	2	82
22	5	1	6	1	7	160	200	1,500	.....	.....
23	15	7	22	5	27	94½	462	6,070	.....	6	
24	16	17	33	4	37	201½	1,653	8,580	.....	8	
25	36	11	47	5	52	244½	2,200	43,050	.....	7	
26	20	9	29	2	31	196	1,208	4,500	.....	.....
27	52	20	72	8	80	202½	6,239	16,419	.....	10	
28	38	15	53	7	60	198½	4,428	7,607	.....	5	
29	94	33	127	10	137	182¼	8,845	20,450	.....	25	
30	69	17	86	7	93	208½	7,927	13,786	.....	11	
31	7		7	1	8	106	199	1,150	.....	.....	Mine abandoned August 11, 1920.
32	12	6	18	2	20	111½	65	9,200	Successor to Jones & Davis Coal Co., July 1, 1920.
33									Mine abandoned January, 1920; no coal produced.
34	6	1	7	2	9	229	220	3,900	

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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—CRAWFORD COUNTY, DEEP MINES—CONTINUED.

Office No.	Average number of employees, classified as to work.					Total number of days worked.	Total explosives used.		Total number of accidents.		Remarks.
	Miners.	Under-ground day men.	Average total under-ground.	Top day men.	Average total of employees.		Total number of 25-pound kegs of powder u. ed.	Total number of pounds of dynamite used.	Fatal.	Non-fatal.	
35	12	2	14	1	15	200	1,000	15,000			Estimated.
36											Mine abandoned December 31, 1919.
37	26	7	43	9	52	89	582	19,900	3		New mine; began operating about July 1, 1920.
38	15	3	18	3	21	251	1,233	8,340	6		New mine; began operating about January 1, 1920.
39	44	11	55	8	63	205	5,146	34,444	10		
40											Not operated during entire year, 1920.
41	140	21	161	8	169	251	10,382	69,210			
42											Not operated 1920; succeeded by Patton Coal and Mining Co. April 26, 1920.
43	2	1	3	1	4	177	207	500		1	Mine abandoned October, 1920.
44	20	4	24	3	27	104	463	4,650	1		
45											No coal produced during 1920; succeeded by A. C. Coal Co.
46	53	15	68	7	75	205	3,563	19,100	13		
47	72	18	90	7	97	195	5,253	8,600	13		
48											No reports received from company.
49	8	2	10	1	11	198	748	3,456			Not operated by Wm. Fox during 1920.
50											
51	35	10	45	5	50	272	1,974	26,425			Began sinking October, 1920; no coal produced until January 1, 1921.
52											
53	61	21	82	9	91	220	4,527	16,945	1	14	Licensed to John M. Young Coal Co. June 1, 1920.
54	70	18	88	10	98	407	1,004	7,001	1	3	Succeeded by O'Neal & Reed Coal Co., August 1, 1920.
55	7	3	10	1	11	89	172	377			This mine was listed last year as Parker Coal Co.
56	9	2	11	3	14	188	350	650			Abandoned September 3, 1920.
57	15	4	19	2	21	189	980	6,580			Mine abandoned December, 1920.
58	3	3	6	2	5	193	107	420			Abandoned February 14, 1920.
59	10	2	12	1	13	24	224	700			
60	11	3	14	1	15	236	954	2,950	1		
61	67	15	82	11	93	255	5,365	17,630	4		Mine temporarily abandoned May 10, 1920; began operating Sept. 17, 1920.
62	39	13	52	6	58	164	4,450	4,250	8	6	Produced no coal as Hamilton Coal Co. in 1920; leased to Arma Coal Co.
63											
64	60	12	72	9	81	233	5,366	19,446	4		Succeeded by Broadhurst Bros. Coal Co. August 1, 1920.
65	4		4	1	5	66	75	100	1		Worked one and one-half months during 1920.
66											
67	73	21	94	6	100	214	4,958	14,500	11		
68	88	15	103	6	109	201	6,084	22,437	2		
69											Same as Simion Coal Co. No. 1; only a selling agency.
70	118	25	143	17	182	280	8,464	19,581	1	12	
71	78	25	103	12	115	255	3,670	45,740		27	
72	167	47	214	13	227	241	6,751	129,279		31	
73	164	35	199	17	216	252	7,980	90,823	1		Mine abandoned January, 1920; no coal produced.
74											Succeeded by Robt. Davis Coal Co. July 1, 1920.
75	27	10	37	4	42	94	40	11,700		1	Succeeded by Victor Coal Co. November 8, 1920.
76	28	10	38	5	43	169	823	21,990		22	
77	101	31	132	15	147	238	5,216	97,770			New mine; began operating July, 1920.
78		9	9	2	11	100	265	1,350			No coal produced during 1920; mine abandoned.
79											
80	8	1	9	2	11	200	911	1,675			
81	4	1	5	1	6	201	455	1,900			
82	1		1	1	2	3	264	1,050			No coal produced during 1920; mine abandoned.
83											
84	48	15	63	8	71	242	3,603	47,044	1	2	
85	19	10	29	6	35	239	564	16,500			
86	6	1	7	2	9	239	212	882			
87	15	3	18	2	20	154	783	2,778			
88	14	5	19	6	25	185	181	7,100			
89	8	5	13	3	16	153	374	4,426			
90	30	8	38	8	46	197	797	23,250			Mine sold to Globe Coal and Mining Co. August 1, 1920.
91	5	1	6	1	7	91	88	700			Produced no coal as Parker Coal Co. during 1920; succeeded by Goodman Coal Co.
92											New mine, just opening up; no coal produced during 1920.
93											Succeeded by Duncan Linton Coal Co., April 26, 1920.
94	33	6	39	3	42	142	705	11,263			Produced no coal during 1920.
95											New mine.
96											No coal produced during 1920; mine abandoned.
97	28	8	31	4	35	186	708	21,500			
98	86	22	108	9	117	175	6,091	12,679	10		Succeeded by Simion Coal Co. No. 9, April 26, 1920.
99	21	8	29	2	31	175	1,366	7,230	4		Estimated.
100											
101	10	4	14	1	15	165	175	500			No coal by Reed & Gladieux during 1920; succeeded by Morgan-Hupperfelt.
102											This mine is operated under lease to Darrow-Schwartz Coal Co.
103											
104	6	14	20	3	23	195	415	8,050		2	No coal produced during 1920; mine abandoned.
105											Mine abandoned October 1, 1920.
106											Leased from Clemens Coal Co., Nov. 15, 1920.
107	30	2	32	2	34	58	231	2,000			
108	19	6	24	2	25	229	2,822	4,475		1	Succeeded April 26, 1920, by Porphir Coal Co.
109	14	6	20	1	21	65	300	400			Began operating September, 1920.
110	3	3	6	1	4	65	150	100			New mine.
111	1	1	2	1	2	48	30	30			Not in operation during third quarter.
112	4	2	6	1	7	166	271	450			
113											
114	133	30	163	9	172	197	9,116	31,689		9	
115	70	15	85	7	92	218	5,641	11,337	10		Mine abandoned September 22, 1920.
116	55	15	70	6	76	150	3,562	7,125	6		
117	51	14	65	8	73	196	3,029	14,419	9		Mine drowned out and abandoned about February 1, 1920.
118	14	2	16	2	18	15	51	318			

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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—CRAWFORD COUNTY, DEEP MINES—Continued.

Office No.	Average number of employees, classified as to work.					Total number of days worked.	Total explosives used.		Total number of accidents.		Remarks.
	Miners.	Under-ground day men.	Average total under-ground.	Top day men.	Average of employees.		Total number of 25-pound kegs of powder used.	Total number of pounds of dynamite used.	Fatal.	Non-fatal.	
119	99	24	123	12	135	226	5,060	32,899			
120	86	16	102	9	111	219	4,627	183,258			
121											
122	8	1	9	2	11	271	888	1,300			
123											No coal produced during 1920; mine abandoned.
124	12	2	14	1	15	287	390	17,400			No reports received from company.
125	3	1	4	1	5	80	135	350			Listed last year as Capaldo Coal Co.
126	2	2	4	1	3	155	60	325			New mine; began operating August, 1920.
127	5	3	8	1	9	81	281	325			New mine; began operating April 1, 1920.
128	27	5	32	4	36	177	1,794	26,300			Mine abandoned August, 1920; flooded.
129	9	2	11	1	12	75	325				Successors to Black Diamond Coal Co.; began operating April 13, 1920.
130	24	7	31	4	35	35	55	4,110			Mine abandoned March 31, 1920.
131	9	2	11	2	13	150	560	2,900			Successors to Kansas Coal Co., November 8, 1920.
132											Estimated.
133	45	20	65	8	73	216 ³	2,895	17,812	1	9	Succeeded by Benson Bros. Coal Co.
134	128	37	165	10	175	195 ³	7,272	76,562	1	48	
135	37	11	48	6	54	243 ³	2,437	21,050			
136	78	27	105	9	114	221	5,382	34,863			
137	66	21	87	9	96	218	4,748	39,060	1	19	
138	143	46	189	10	199	196	10,186	43,589	1	42	
139	130	43	173	10	183	203 ³	10,053	47,948	1	63	
140	142	37	179	11	150	210	9,029	73,080	1	74	
141	87	25	112	9	121	216 ³	6,675	27,082			
142	156	24	180	10	190	142	6,322	47,728	1	47	
143											New mine; no report of production first three months.
144	8	14	22	2	24	231	741	11,400			No coal produced during 1920.
145	4	5	9	1	10	247	675	1,950			
146											Mine abandoned; no coal produced during 1920.
147	1	3	4	1	5	200	155				
148	6	1	7	3	10	99	80	750			
149	7	2	9	1	10	258 ¹	533	1,710			
150	78	20	98	9	107	109	1,402	14,251	1	1	
151	24	4	31	3	34	204 ³	1,471	14,444			
152	10	2	12	1	13	168	464	3,250			New mine.
153	9	1	10	2	12	35	245	350			Mine began operating October, 1920.
154	7		7	2	9	152	330	350			Began operating May, 1920.
Total	5,077	1,529	6,606	626	7,232	Av. 211	332,045	2,478,284	21	904	

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Total 5,077 | 1,529 | 6,606 | 626 | 7,232 | Av. 211 | 332,645 | 2,478,284 | 21 | 994

PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—FOR CRAWFORD COUNTY, STRIP MINES.

Office No.	NAME OF OPERATOR.	Mine No.	Total production classified.				Average total of employees.	Total number of days worked.	Total explosives used.		Total number of accidents.	
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.			Total number of 25-pound kegs powder used.	Total number pounds of dynamite used.	Fatal.	Non-fatal.
1	Aeme Coal and Mining Co.....	1	8,597.60	17,265.35	1,330.33	27,193.28	35	205	851	6,037		
2	B. R. & H. Coal Co. (a).....	1	1,617	2,547		4,164	25	59	200	250		
3	Carbon Coal Co. (b).....	3			36,440	36,440	28	461	234	3,500		1
4	Dean Coal and Mining Co.....	1	16,941.25	17,587.80	4,851.75	39,380.80	32	119	777	2,760		
5	Litchfield Coal Co.....	1	6,116	13,629	49,770.15	69,515.15	40	154	904	5,300		7
6	Menghini Coal Co.....	1			36,722	36,722	27	263	1,090	3,230		1
7	Patten Coal and Mining Co.....	1			28,082.04	28,082.04	35	138	267	3,840		
8	Owsley & Loughborn Coal Co.....	1			3,500	3,500	2	240	50			
9	Reliance Coal Co.....	1	5,870	23,698	14,375	43,943	38	134	950	2,000		1
10	Wilson Bros. Coal and Mining Co.....	1	2,363	8,047	4,935	15,345	26	151	301	239		7
11	Whitmer Contracting Co. (c).....	30	1,719	3,151	15,991	20,861	42	94	335	2,850		
	Totals.....		43,223.85	85,925.15	195,997.27	325,146.27	330	Av. 151	5,939	30,046		17

- (a) Abandoned July, 1920.
(b) Began moving shovel into another section December, 1920.
(c) Abandoned September 3, 1920.

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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—LEAVENWORTH COUNTY, DEEP MINES.

Office No.	NAME OF OPERATOR.	Mine No.	Total production classified.			
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.
1	Carr Coal Mining and Manufacturing Co.					
2	Home and Riverside Coal Mines Co.					
3	Home and Riverside Coal Mines Co.					
4	Kansas State Penitentiary Mines.					
	Totals					
			64,880	22,426	116,996	204,302

PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—LEAVENWORTH COUNTY, DEEP MINES—CONCLUDED.

Office No.	Average number of employees, classified as to work.					Total number of days worked.	Total explosives used.		Total number of accidents.		Remarks.
	Miners.	Under-ground day men.	Total under-ground.	Top day men.	Average total of employees.		Total number of 25-pound kegs of powder used.	Total number of pounds of dynamite used.	Fatal.	Non-fatal.	
1	98	25	123	21	144	260	7.14	365	3		
2	27	25	52	8	60	220		117.5		5	
3	108	26	134	17	151	286		802.5			
4	131	79	210	35	235	310		800			
Total	364	155	519	71	590	Av. 269	7.14	2,085		8	

This mine resumed operations April, 1920, after being idle several years.

PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—LINN COUNTY, DEEP MINES.

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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—LINN COUNTY, DEEP MINES.

Office No.	NAME OF OPERATOR.	Mine No.	Total production classified.			
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.
1	American Eagle Coal Co.		1,193.6			1,193.6
2	Black Diamond Coal Co.	2			4,948	4,948
3	East Side Coal Co.				807	807
4	Grennell Coal Co.				9,185	9,185
5	Kaw Valley Coal and Mining Co.				1,399	1,399
6	Linn County Coal Co.				2,590	2,590
7	Menghini & Valentine Coal Co.	1			1,920	1,920
8	Pittsburg-Pleasanton Coal Co.				2,760	2,760
9	Pleasanton Coal and Mining Co.		7,445.3		7,445	7,445
10	Stanton Coal Co., (Roy)				2,438	2,438
11	Thirwell Coal Co.				3,900	3,900
12	Walshour Coal Co.				1,754	1,754
13	Kinser Coal Co.					
Totals			8,638.60		31,701	40,339.60

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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—LINN COUNTY, DEEP MINES—CONCLUDED

Office No.	Average number of employees, classified as to work.					Total number of days worked.	Total explosives used.		Total number of accidents.		Remarks.
	Miners.	Under-ground day men.	Total under-ground.	Top day men.	Average total of employees.		Total number of 25-pound kegs of powder used.	Total number of pounds of dynamite used.	Fatal.	Non-fatal.	
1	9	3	12	3	15	106					Successors to Thirlwell Coal Co. began operations August, 1920.
2		8	8	1	9	247	381		1		
3		4	4	1	5	143	80	40		1	
4	9	1	10	1	11	242	623	2,250			
5	11	3	14	4	18	66					
6		22	22	5	27	68	2	5			Began operating September 17, 1920. Leased to Walthour Coal Co. April 1, 1920. Name changed from Big Three Coal Co.
7	12	3	15	2	17	50	3	8			
8		7	7	1	8	122	82	450			
9		21	21	2	23	257	134	1,250			New mine; began operating April, 1920. Sold to American Eagle Coal Co. Leased from Menghini & Valentine April 1, 1920.
10		6	6	1	7	137	192	95			
11		10	10	2	12	150	6				
12											
13	4		4	1	5	101	123				
Total.	45	88	133	24	157	Av. 190	1,606	4,090	2	1	

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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—OSAGE COUNTY, DEEP MINES.



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PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—OSAGE COUNTY, DEEP MINES.

Office No.	NAME OF OPERATOR.	Mine No. or name.	Total production classified.			
			Lump.	Nut or slack.	Mine run.	Total number of tons produced.
1	Cahill Coal Co. (R. J.)	Klondike			2,995	2,995
2	Carlson Coal Co. (S. J.)	7	10,662			10,662
3	Carlson Coal Co. (S. J.)	30	2,467.50			2,467.50
4	Central Coal and Mining Co.	2	10,383			10,383
5	Chappell Coal Co.	3				
6	Coughlin Coal Co. (J. T.)	4	2,324			2,324
7	Elliott Coal Co. (Geo.)	Comet			6,909	6,909
8	Granstrom Coal Co. (A. W.)	10	2,006			2,006
9	Jackson-Walker Coal and Mining Co.	14			4,335.36	4,335.36
10	Heros Coal Co.	1				
11	Labor Exchange Coal Co. (Osage)		7,913			7,913
12	Labor Exchange Coal Association, (Scranton)		1,702		2,591	4,293
13	Midway Coal and Mining Co.		4,319.56			4,319.56
14	Miller Coal Co.	6	8,896			8,896
15	Miners Fuel Co.	Red Top	7,945			7,945
16	Miners Fuel Co.	2	285			285
17	Grayhill & Kitterell Coal Co.				1,215	1,215
18	Onell Coal Co. (James)	1	1,090.50			1,090.50
19	Segelquist Coal Co. (K.)				1,140	1,140
20	Standard Coal Co.	1	1,650			1,650
21	Standard Coal Co.	2			2,314	2,314
22	Strunk Coal Co.					
23	Tindell Coal Co. (John)	1				
24	Trebbie, Gilchrist & Tindell Coal Co.					
25	Washington Coal Co. (James)	10	7,767			7,767
26	Western Fuel Co.					
27	White Coal Co. (E. S.)					
Totals			69,380.56		21,499.36	90,879.92

Mine Inspection Department.



PRODUCTION STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1920—OSAGE COUNTY, DEEP MINES—CONCLUDED.

Office No.	Average number of employees classified as to work.					Total number of days worked.	Total explosives used.		Total number of accidents.		Remarks.
	Miners.	Under-ground day men.	Total under-ground.	Top day men.	Average total of employees.		Total number of 25-pound kegs of powder used.	Total number of pounds of dynamite used.	Fatal.	Non-fatal.	
1	8	7	15	1	16	136	282				
2	26	13	39	3	42	1985					
3	15	3	18	1	19	131					
4	37	4	41	1	42	277		960		1	Not in operation first and second quarters.
5											
6	7	1	8	1	9	171					
7	17	6	23	2	25	242			1		No production; succeeded by Tribble, Gilchrist & Tindell Coal Co.
8	4		4	1	5	228					
9	24	2	26	1	27	123		360			
10											
11	25	15	40	2	42	176					Not in operation, succeeded by Graybill & Kitterell.
12	16	1	17	1	18	202		806			
13	13	2	15	1	16	249					
14	24	2	26	2	28	171					
15	17	12	29	3	32	222					
16		11	11	2	13	54			1		Succeeded by S. J. Carlson, December, 1920.
17											New mine; began operations October, 1920.
18		2	9	1	10	213		205			No reports received from company.
19	4		4	1	5	223		59			
20	13	1	14	1	15	40					Abandoned July 1, 1920.
21	12	2	14	1	15	75					New mine; began operating October 1, 1920.
22	7	1	8	1	9	275	25	200			
23											Not in operation during 1920; no coal produced.
24											Successors to Chappell Coal Co., mine No. 3.
25											No reports received from company.
26	19	8	27	1	28	180		425		1	Produced no coal during 1920.
27											
Total.	295	93	388	28	416	Av. 205	25	3,222	1	3	

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Department of Labor and Industry.

COAL PRODUCTION, EMPLOYEES, AVERAGE DAYS WORKED, EXPLOSIVES, ACCIDENTS, AVERAGE DEPTH OF MINES, AND AVERAGE HEIGHT OF COAL



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COAL PRODUCTION, EMPLOYEES, AVERAGE DAYS WORKED, EXPLOSIVES, ACCIDENTS, AVERAGE DEPTH OF MINES, AND AVERAGE HEIGHT OF COAL
BY COUNTIES FOR KANSAS, FOR THE YEAR ENDING DECEMBER 31, 1920.

COUNTY.	Total coal production, classified.					Total employees, classified.					
	Tons of lump coal.	Tons of nut or slack coal.	Tons of mine-run coal.	Total tons produced.	Per centage of total production of state.	Miners.	Under-ground day men.	Total under-ground.	Top day men.	Total employees.	Per centage of total in state.
Crawford (deep mines).....	1,522,107.685	1,551,940.225	1,530,536.20	4,304,584.11	70.22	5,077	1,529	6,606	626	7,232	68.82
Crawford (strip mines).....	43,223.85	85,925	195,997.27	325,146.27	5.31					330	3.15
Cherokee (deep mines).....	148,878.86	70,957.05	447,450.40	667,286.31	10.89	736	393	1,129	173	1,302	12.39
Cherokee (strip mines).....	31,558.05	96,574.50	256,610.45	385,443	6.28					255	2.43
Leavenworth (deep mines).....	64,880	22,426	116,966	204,302	3.33	364	155	519	71	590	5.60
Osage (deep mines).....	69,380		21,499.36	90,879.92	1.48	295	93	388	28	416	3.96
Bourbon (deep mines).....	1,960		2,900	4,860	.08	9	2	11	1	12	.11
Bourbon (strip mines).....			7,500	7,500	.12					40	.38
Linn (deep mines).....	8,638.60		31,701	40,339.60	.66	45	88	133	24	157	1.49
Miscellaneous counties and small mines.....			100,000	100,000	1.63	100	50	150	25	175	1.67
Totals for state.....	1,590,92.605	1,828,527.925	2,711,190.68	6,130,341.210	100%	6,626	2,310	8,936	948	10,509	100%

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COAL PRODUCTION, EMPLOYEES, AVERAGE DAYS WORKED, EXPLOSIVES, ACCIDENTS, AVERAGE DEPTH OF MINES AND AVERAGE HEIGHT OF COAL
BY COUNTIES—CONCLUDED.

COUNTY.	Average number of days worked.	Total explosives used.				Total number of accidents.						Average number of feet of overburden.	Average height of coal	
		Powder.		Dynamite.		Fatal.			Non-fatal.				Feet.	Ins.
		Number of 25-pound kegs.	Percentage of total in state.	Pounds.	Percentage of total in state.	No.	Percentage of total.	Tons of coal produced per accident.	No.	Percentage of total.	Tons of coal produced per accident.			
Crawford (deep mines).....	211	332,045	84.28	2,478,284	88.74	21	80.77	204,989.20	994	89.711	4,330.56	78	3	.....
Crawford (strip mines).....	151	5,539	1.50	30,046	1.08	.....	.....	.....	17	1.535	19,126.25	.....	2	.....
Cherokee (deep mines).....	200	48,374	12.28	244,985.5	8.78	2	7.692	333,643.15	63	5.686	10,591.84	46	3	.....
Cherokee (strip mines).....	151	4,406	1.13	24,582	.87	.....	.....	.....	22	1.986	17,520	.....	3	.....
Leavenworth (deep mines).....	299	7.14	.001	2,685	.073	.....	.....	.....	8	.722	28,537	715	1	95
Osage (deep mines).....	205	25	.006	3,222	.11	1	3.816	90,879.52	3	.270	30,263.30	72	1	5
Bourbon (deep mines).....	250	14	.003	35	.001	.....	.....	.....	.....	.....	.....	25	1	9
Bourbon (strip mines).....	200	50	.01	1,500	.057	.....	.....	.....	.....	.....	.....	73	1	4
Linn (deep mines).....	150	1,606	.40	4,090	1.46	2	7.692	20,199.80	1	.09	40,359.60	73	2	5
Miscellaneous counties and small mines.....	200	1,500	.38	4,000	1.43
Totals for state.....	202	393,969.14	100%	2,792,753.5	100%	26	100%	1,108	100%	168	2	4

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Department of Labor and Industry.

STATISTICS BY DISTRICTS FOR THE YEAR ENDING DECEMBER 31, 1920.



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STATISTICS BY DISTRICTS FOR THE YEAR ENDING DECEMBER 31, 1920.

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DISTRICT.	Tons of coal produced.	Percentage of total production of state.	Total number of employees.	Percentage of total employees of state.	Accidents.									
					Fatal.					Non-fatal.				
					No.	Percentage of total accidents of state.	Tons of coal produced per accident.	Number of accidents per thousand employees.	Number of accidents per million tons of coal mined.	No.	Percentage of total accidents of state.	Tons of coal produced per accident.	Number of accidents per thousand employees.	Number of accidents per million tons of coal mined.
Pittsburg.....	5,682,459.69	92.8	9,119	86.79	23	88.462	247,063.46	2.52	4.04	1,096	98.92	5,184.72	120.1	192.88
Leavenworth.....	204,302	3.33	590	5.60						8	.72	25,538	13.6	39.15
Osage.....	60,879.92	1.48	416	3.96	1	3.846	60,879.92	2.40	11.003	3	.27	30,293.30	7.2	33.01
All other districts.....	152,699.60	2.39	384	3.65	2	7.692	76,349.80	5.20	13.09	1	.09	152,699.60	2.7	6.54
Entire state.....	6,130,341.21	100%	10,509	100%	26	100%	414,293.18	10.12	28.016	1,108	100%	213,715.62	143.6	171.58

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BIG FIVE OF KANSAS FOR 1920.—MINES PRODUCING LARGEST TONNAGE.

Rank.	NAME OF COMPANY.	Mine number or name.	Total coal production, classified.				Total employees, classified.				
			Tons of lump coal.	Tons of slack coal.	Tons of mine-run coal.	Total tons produced.	Miners.	Under-ground day men.	Total under-ground.	Top day men.	Total employees.
1.....	Central Coal and Coke Co.....	51	22,535	159,756	29,929	211,320	240	72	312	14	326
2.....	Central Coal and Coke Co.....	45	50,806	49,997	1,628	141,831	150	62	212	11	223
3.....	Jackson-Walker Coal and Mining Co.....	17	.....	.....	140,755.20	140,755.20	164	35	199	17	216
4.....	Jackson-Walker Coal and Mining Co.....	16	.....	.....	138,315.70	138,315.70	167	47	214	13	227
5.....	Western Coal and Mining Co.....	18	41,628	89,963.66	2,754.30	133,745.96	142	37	179	11	190

BIG FIVE OF KANSAS FOR 1920.—CONCLUDED.

Rank.	NAME OF COMPANY.	Total number of days worked.	Total explosives used.		Number of accidents.		Percentage of total production of state.	Percentage of total employees of state.	Name of mine foreman.
			Powder.	Dynamite.					
			Number of 25-lb. kegs.	Number of pounds.	Fatal.	Non-fatal.			
1.....	Central Coal and Coke Co.....	200	7,662	218,400	2	82	.034	3.10	Robert Murray.
2.....	Central Coal and Coke Co.....	2145	10,005	83,882	.....	39	.023	2.12	William Scott.
3.....	Jackson-Walker Coal and Mining Co.....	252	7,980	90,823	1	31	.022	2.05	James Murphy.
4.....	Jackson-Walker Coal and Mining Co.....	241	6,751	120,277	.....	27	.022	2.15	Joseph Pilney and James Jones.*
5.....	Western Coal and Mining Co.....	210	9,029	73,080	1	74	.021	1.80	John Wayenberg.

*Both employed as foremen at different times.

FATAL ACCIDENTS.

INFORMATION RELATIVE TO FATAL ACCIDENTS OCCURRING IN THE COAL MINES
OF THE STATE OF KANSAS FOR THE YEAR ENDING DECEMBER 31, 1920.

In the pages following will be found the general details of the different fatal accidents occurring during the year 1920, but the complete reports of the investigations are not included, for the reason that the same would be too bulky to insert in this report. However, full and complete reports of the different investigations and the testimony adduced at such investigations are on file in the office of the state mine inspector at Pittsburg, Kan., and open to inspection. The fatal accidents noted hereinafter are classified as follows:

- Fall of rock.
- Explosions.
- Caught by set screw on fan shafting.
- Objects falling down shaft.
- Persons falling down shaft.
- Caught between cars and rib.

Following each classification of accidents will be found recommendations for the prevention of such accidents.

FALL OF ROCK.

(1) GEORGE TRAVIS, a miner, was killed at mine No. 21 of the Wear Coal Company, in Crawford county, Kansas, on January 16, 1920, by fall of a very large and dangerous pot rock, which measured 11 feet 9 inches in length, 9 feet 5 inches in width and 19 inches in thickness at the thickest point, tapering to a featheredge on all sides. The rock was of saucer shape and weighed approximately 4,000 pounds, and was of a sand and clay shale nature, accompanied with ironstone formation. The accident occurred about 10:30 o'clock a.m. Mr. Travis was working in the second east straight entry off the fifth north entry on the east side of the mine at the time the accident occurred. The testimony taken at the investigation of the accident showed that the accident was unavoidable.

(2) VIC VIETTIE, a miner, was instantly killed at mine lettered J of the Geo. K. Mackie Fuel Company, in Crawford county, Kansas, on January 27, 1920, by fall of a very large and dangerous pot rock, which measured 9 feet in length, 8 feet 8 inches in width and 17 inches in thickness at the thickest point, and running to a featheredge on three sides. Viettie worked in the first working room off the angle entry running southwest off the back south entry, and the fall occurred at the face of the room. The evidence taken at the investigation of the accident showed that the rock had been sounded just a few minutes prior to the accident and sounded solid, and was presumed to be safe, but by reason of its being a pot rock the danger could not be foreseen and the accident was considered unavoidable. Mr. Viettie was a young Italian miner about 18 years of age.

(3) MELVIN HALLEY, a miner, was instantly killed at mine No. 48 of the Central Coal and Coke Company, in Crawford county, Kansas, on March 22, 1920, by fall of a pot rock in his working place in the fourth room from the face in the first west entry off the sixth north straight entry. The rock measured 7 feet 6 inches in length, 5 feet in width, and 1 foot in thickness at



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the thickest point, and tapered to a featheredge on all sides, and was almost perfectly oval shaped. The room was only about 10 feet wide at the point where the rock fell, having been narrowed in going through a horseback. The accident occurred at 1:30 o'clock p.m. The testimony adduced at the investigation of the accident showed conclusively that the rock was a pot rock and that the accident was unavoidable in the judgment of the witnesses. The evidence showed that other miners had tested the roof during the day previous to the accident and thought the same safe. Mr. Halley was only about 17 years of age.

(4) JOSEPH HROMEK, Sr., a miner, was killed by a fall of rock at mine No. 9 of the Girard Fuel Company, in Crawford county, Kansas, on April 26, 1920. Mr. Hromek was turning a room in the ninth west straight entry in the above-mentioned mine, and was apparently mining a shot at the time the accident occurred. The rock was 9 feet 5 inches in length, 3 feet 8 inches in width and 2 feet 5 inches in thickness, and broke off the rib in the room turning. The accident occurred about 10 o'clock a.m. Mr. Hromek was about 50 years of age. This was evidently an unavoidable accident.

(5) D. L. TEAGARDNER, a miner, was fatally injured, and died a few minutes later without regaining consciousness, at mine No. 1 of the Black Diamond Coal Company, in Linn county, Kansas, near La Cygne, Kan., on July 23, 1920. The accident occurred at 8:55 o'clock a.m. The rock was about 18 feet 10 inches long, 11 feet wide and 24 inches thick, and upon investigation of the accident and examination of the place where the accident occurred it would appear that the rock must have sounded loose before it fell, if it had been sounded at all, and that the accident could have been avoided had the proper precaution been taken and the rock timbered or pulled down. The room had been narrowed to a width of about 14 feet and two rows of props had been carried on the right-hand side of the room, but it was 11 feet 6 inches from the face to the first prop, and the indications were there were no timbers under the rock. The accident occurred in room No. 101 in the first west entry on the south side of the mine.

(6) JOE CAFUT, a miner, was instantly killed by a fall of rock at mine lettered H of the Geo. K. Mackie Fuel Company, in Cherokee county, Kansas, on July 29, 1920, at about 9 o'clock a.m. The accident occurred on the west side of the mine in the third stub entry going east off the fifth north entry on the west side of the mine, in room No. 11. The rock was in two pieces, one being 4 feet 10 inches wide, 7 feet 10 inches long and 4 inches thick, and one being 4 feet 1 inch long, 3 feet 10 inches wide and about 3 inches thick. Joe Cafut was only 18 years of age and was working as a sort of apprentice miner with his father, who was also injured by this fall of rock, but not very seriously. Upon investigation of the accident and examination of the place where the accident occurred, it was the consensus of opinion that the rock could have been either timbered or taken down and the accident avoided, as it was evident that the danger could have been ascertained by the usual and ordinary care and discretion being exercised by the workman.

(7) ANDREW PRESTOVIC, a miner, was instantly killed by a huge pot rock at mine No. 16 of the Western Coal and Mining Company, in Crawford county, Kansas, on October 30, 1920. The accident occurred at about 9:20 o'clock a.m. Mr. Prestovic was working in room No. 10 in the third north back entry off the first west entry off the fifth north entry on the west side of the mine. The rock which caused his death measured 13 feet 6 inches in length, 9 feet in width and 2 feet 10 inches in thickness at the thickest point, with about a 4-inch roll under it, and weighing approximately 12½ tons. The rock was oval-shaped and tapered to a featheredge. The indications were that Mr. Prestovic was preparing to set a prop under the rock when it fell. Upon investigation of the accident and examination of the place where the accident occurred, this was considered an unforeseen and unavoidable accident and one that might occur to any miner, as the rock was so large that it would be almost impossible, under any circumstances, to detect it being loose, and it

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undoubtedly fell without any warning whatever. The miner's place had advanced in a workmanlike manner, and there was every indication that he was a practical and careful miner.

(8) ANTONIO VINARDI, a miner, was instantly killed by a fall of rock at mine No. 14 of the Western Coal and Mining Company, in Crawford county, Kansas, on November 6, 1920, at about 3:10 o'clock p.m. Mr. Vinardi was working in room No. 8 in the third east straight entry off the first south entry off the third west entry of the first south entry on the west side of the mine. His place was driven a distance of 60 feet, and the rock which killed him was 25 feet back from the face of the room. At the point where the rock fell his room was 22 feet wide. Mr. Vinardi was killed by a slab of draw slate measuring 16 feet in length, 7 feet 6 inches in width and 4 inches in thickness. He was evidently cleaning up some stock coal at the time the accident occurred. The roof at the place where the rock fell was loose for several feet around the place, but at the face of the workings the roof sounded solid. Mr. Vinardi was found with his face downwards in the coal, and it is possible that he might have smothered to death. It is believed that had he been found immediately after the rock fell that the rock could have been removed and he might have lived. At the investigation of the accident and upon examination of the place where the accident occurred, it seemed that this accident could have been avoided by the use of ordinary care and discretion. Mr. Vinardi was an Italian about 42 years of age, and left surviving him a wife and five children.

(9) ARTHUR SUMMERS, a miner, was fatally injured at the George Elliott Coal Company mine, in Osage county, Kansas, on November 8, 1920, at 3:20 o'clock p.m., and died a few minutes after the injury was sustained. The accident occurred about 16 feet from the face of the workings in the sixth west entry off the third south entry on the south side of the mine. The rock which killed Mr. Summers measured 9 feet long, 2 feet wide and 12 inches thick at the thickest point.

(10) WILLIAM PROVAN, a miner, was fatally injured by a fall of rock at mine No. 1 of the Economy Coal and Mining Company, in Crawford county, Kansas, on Tuesday, November 2, 1920, at 1:40 o'clock a.m. Two shifts were being worked at this mine, Mr. Provan being on the night shift at the time the accident occurred. The rock measured 11 feet 10 inches in length, 5 feet 10 inches in width at one end and 5 feet in width at the other end, and was about 8 inches thick at the thickest points, the rock tapering to a featheredge. The accident occurred in the room neck of the second room off the second west entry on the north side of the mine. The distance from the edge of the brushing to the face of the room was 15 feet, and there was a "slip" in the roof about 8 feet from the edge of the brushing. The rock fell inside the slip. There had been no props under the rock. Mr. Provan, who was about 54 years of age, succumbed to his injuries on November 13, 1920, eleven days after the accident occurred.

(11) LAWYER WILLARD WHITEHEAD, a colored miner, was instantly killed by fall of rock in his working place in the sixth north straight entry on the east side of mine No. 15 of the Western Coal and Mining Company, in Crawford county, Kansas, on November 19, 1920. The rock was 8 feet long, 4 feet 6 inches wide and averaged 12 inches in thickness, and weighed approximately 5600 pounds. The rock broke off the right-hand side of the entry, right at the face of the brushing. There was a slip running along the face of the brushing. Upon examination of the place where the accident occurred and investigation of the accident, it appeared that the accident was unavoidable. Mr. Whitehead was about 56 years of age.

RECOMMENDATIONS FOR PREVENTION OF ACCIDENTS BY FALLS OF ROCK.

From the foregoing reports of fatal accidents by falls of rock, it will be noted that there were 11 such accidents during the year of 1920, nearly 50 per cent of the total number of accidents being from this cause. However, the

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number of fatal accidents by falls of rock during 1920 were materially reduced from the number in 1919. During the year 1919 there were 15 fatal accidents by falls of rock out of a total of 26 fatal accidents.

Timbering and propping is the most important, or at least one of the most important, operations in the entire work of the mine, and therefore it should be given more consideration in the future than has been accorded it in the past. Statistics show that a very large percentage of the accidents in mines occur from falls of roof.

With reference to entry timbering, it has been found in many places in this state that the timbering was not properly set, and also that it would not afford sufficient clearance for the passing trips. I would recommend that timbers placed in entries afford at least 12 inches clearance from the rail and that the cross timbers be securely wedged at each end. It would also be proper that at least two rows of props be set in the gob and all gob walls securely packed. A number of squeezes in the Kansas mines are caused from insufficient gobbing, and entries driven too wide and without leaving sufficient pillars.

With reference to timbering in rooms, a solution should be worked out at each mine as regards the proper method to be adopted in general in propping rooms, as one system will rarely fit two mines, especially in different seams of coal. Of course, experience tells us that it is an especially hard matter to guard against the dangers in rooms where rolls and pot rocks are numerous, but even in these places, with a common knowledge of the room strata, the miner by the use of care and discretion could avoid a great many hazards. In this connection it may well be said that the State Manual Training Normal School at Pittsburg, Kan., affords the miner an excellent opportunity to avail himself of the proper knowledge and information relative to the origin of coal, the various conditions with reference to the earth's strata, and a general knowledge of practical and technical mining.

In the ordinary room in a mine, where the roadway is in the center of the room, there are two systems of propping which would be considered a good method of timbering. One of these—the "five-spot" system—is to set three rows of props on each side of the roadway, with the center row of props between each outside row on each side of the roadway, alternating with the outside row. This would make six rows of props running lengthwise of the room, with alternating rows across the room of four and two props respectively. In other words, the timbering on each side of the track would be performed in a manner fashioned after the playing card "five-spot."

Another good system of uniform timbering in mines is the use of the stagger system, wherein four or six rows of timbers are set the length of the room, each alternating with the other. This is better than having the rows across the room in a straight line. These two systems have been found very effective in securing the roof in rooms where it is badly broken by clay veins.

In rooms where the roof is very soft it is a good system to set groups of props in as many rows as necessary, with from three to five props in each group.

Owing to the many and varied conditions in the different mines, it would be impossible to enact legislation which would provide for a set method of uniform timbering; and, considering this, a law is elsewhere suggested herein,

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which would give to the Mine Inspection Department the right, authority and power to issue orders with reference to the manner in which rooms, entries, etc., should be timbered, and providing a penalty for noncompliance with the law or any order in relation to the law.

By referring to the fatal-accident reports upon the death of Mr. D. L. Teagardner in the Linn county coal field, and the accident reports upon the death of Mr. Joe Caput in the Cherokee county field, and Mr. Antonio Vinardi in the Crawford county field, it may readily be seen that such a law as herein mentioned probably would have been the means of saving these three lives. However, if only one life was saved during a course of ten years the time and money involved would be well spent.

Too much care and precaution cannot be exercised by the miner nor the officials of the company in keeping the mine in proper condition with reference to timbering.

EXPLOSIONS.

(1) EDWARD BEARD and (2) STEVE TESLAVIC, shot firers, were fatally injured as a result of an explosion occurring at mine No. 9 of the Hamilton Coal and Mercantile Company, located in Crawford county, Kansas. The explosion occurred at about 4:50 o'clock p.m. This explosion was evidently the result of an exceedingly heavy coal shot, which was found in the first room from the face of the first north straight entry on the east side of the mine. This shot had been drilled approximately 6 feet deep, and measured 7 feet 11 inches at the point and 2 feet 6 inches at the heel. The shot had not worked properly, but evidently would have worked properly except for abnormal conditions in the room. A dip in the roof was found beginning at the point of the chance and running along the entire length of the chance for the shot to work. A roll was also found at the heel of the shot, running outby towards the mouth of the room. This roll and dip in the roof probably prevented the shot from working properly. This was purely a local explosion and did very little general damage to the mine, most of the disturbance being noted in the immediate vicinity of where the shot firers were found, near the bottom of the escape shaft. The explosion occurred on January 3, 1920, and Mr. Beard died January 7, 1920, while Mr. Teslavic died January 8, 1920. They died as a result of internal injuries from fire and smoke in their lungs.

(3) ISAAC HOLDMAN, a shot firer, suffocated to death as a result of an explosion occurring on January 24, 1920, at mine No. 18 of the Western Coal and Mining Company, located in Crawford county, Kansas. An investigation into the cause of the explosion and examination of the mine showed a minimum disturbance throughout the affected portion of the mine, which was confined to the portion of the main east entry inby from the ninth north and south entries, the tenth north entry, and the tenth south entry. From this investigation and the evidence secured it is evident that the explosion originated from a blow-through shot between the first and second working rooms in the tenth south straight entry on the east side of the mine, and that a shot in the fourth working room in this entry assisted greatly in the propagation of the wind and fire caused by the blow-through shot. Indications pointed to the fact that at the time the explosion occurred Holdman, the shot firer, was at the face of the tenth north back entry on the east side of the mine, and the disturbance threw him in the dark, and in attempting to make his way out of the mine he was overcome by the smoke. A rescue crew from the State Mine-rescue Station attempted to revive the shot firer by artificial respiration and the use of oxygen, but without success. The shot firer showed no indications of being burned. The explosion occurred about 2:30 o'clock p.m. Mr. Holdman was an American, about 28 years of age, married, and had one child.

(4) ED McCORMICK, a shot firer, was killed as a result of a terrific local explosion on May 25, 1920, at mine No. 51 of the Central Coal and Coke