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THIRTEENTH ANNUAL REPORT
OF THE
STATE INSPECTOR OF
COAL MINES
COLORADO
1925

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THIRTEENTH
ANNUAL REPORT

OF THE

STATE INSPECTOR
OF COAL MINES

1925



Denver, Colorado
Eames Brothers, Printers
1926

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DIRECTORY OF ADVERTISERS

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Bristol Co., The.....	Waterbury, Conn.....	91
Brown-Fayro Co., The.....	Johnstown, Pa.....	12
Card Iron Works Co., The E. C.....	Denver, Colo.....	15
Carroll Chain Co., The.....	Columbus, Ohio.....	10
Cincinnati Electric Tool Co., The.....	Cincinnati, Ohio.....	12
Clason Map Co., The.....	Denver, Colo.....	85
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PERSONNEL OF COAL MINE INSPECTION DEPARTMENT

JAMES DALRYMPLE, Chief Inspector.....	Denver, Colo.
W. M. LAURIE, Deputy Inspector.....	Trinidad, Colo.
HUGO H. MACHIN, Deputy Inspector.....	Aguilar, Colo.
GEORGE C. DALRYMPLE, Deputy Inspector.....	Walsenburg, Colo.
JAMES W. GRAHAM, Deputy Inspector.....	Lafayette, Colo.
HENRY P. KING, Deputy Inspector.....	Denver, Colo.
ADA R. TIBBITS, Chief Clerk	Denver, Colo.
MAX M. GREENWALD, Assistant Clerk.....	Denver, Colo.

FIELD FORCE AND DISTRICTS

W. M. LAURIE, 512 Ash St., Trinidad, Colo.....District No. 1
 All mines in Las Animas County, except those listed in
 District No. 2.

HUGO H. MACHIN, Box 334, Aguilar, Colo.....District No. 2
 Includes the following mines in Huerfano County:
 Bunker Hill, Hezron, Ideal, Leader No. 1, Leader No. 2,
 Lester, Cameron, Pryor, Ravenwood, Torrid, Round Oaks,
 Sweet, and the following mines in Las Animas County:
 Berwind, Brodhead, Cass, Congo, Delagua, Empire, Green-
 ville, Hastings, Jewel, Crestone, Ludlow, Mutual, Pine
 Fuel, Rapson, Southwestern, Tabasco, Vickers, Welling-
 ton, and Royal.

GEORGE C. DALRYMPLE, Box 645, Walsenburg, Colo...District No. 3
 Includes the following mines in Huerfano County: Ojo,
 Oakdale, Gordon, Sunnyside, Black Hills, Vesta, Mait-
 land, Pictou, Walsen-Robinson, Fern, Alamo, Calumet No.
 1, Toltec, Caddell, Calumet No. 2, and Kebler No. 2, and
 all mines in Fremont County.

JAMES W. GRAHAM, Box 373, Lafayette, Colo.....District No. 4
 Includes mines in the following counties: Adams, Boul-
 der, El Paso, Jackson, Garfield, Gunnison, Mesa, Montrose,
 Ouray, Pitkin, and Rio Blanco.

HENRY P. KING, 1155 Downing St., Denver, Colo.....District No. 5
 Includes mines in the following counties: Archuleta, El-
 bert, Jefferson, La Plata, Moffat, Montezuma, Routt and
 Weld.

LETTER OF TRANSMITTAL

Denver, Colorado, April 1, 1926.

To His Excellency,

CLARENCE J. MORLEY,

Governor of Colorado.

Sir: Herewith I have the honor to submit to you, in accordance with Section 27 of an Act entitled "Coal Mining Laws," the Thirteenth Annual Report of this Department.

The period covered began January 1 and ended December 31, 1925.

Respectfully,

JAMES DALRYMPLE,

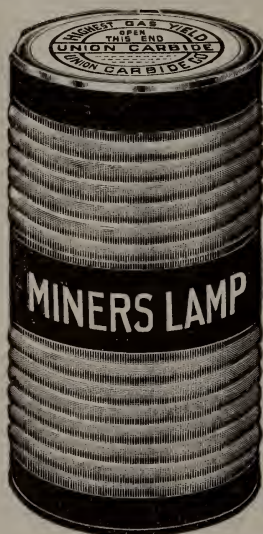
State Inspector of Coal Mines.

UNION CARBIDE

For Miners Lamps

World's Best Quality---Highest Gas Yield
The product of the originators and developers of the Carbide and Acetylene industry.

Uniform, sustained quality assured by more than a quarter of a century of experience in selecting raw materials, and in perfecting laboratory practice and works processes.



The constant, dependable quality compels recognition of the economies which go with it.

Union Carbide will keep for years in the original package without deterioration.

UNION CARBIDE
PACKED IN
BLUE AND GRAY DRUMS
CAPACITY 100 LBS.

Our remarkable nation-wide service and distributing system makes Union Carbide quickly available everywhere

Miners Lamp Union Carbide is specially prepared for miners' use.

Because of its high gas yield, lamps require less Carbide per charge.

Uniform in size, and carefully screened; this eliminates waste and produces uniform generation of gas.

Due to the great purity of Union Carbide and its gas, the flame is of maximum illuminating power, and constant in size.

Our excellent approved package—the Blue and Gray Drum—is in keeping with our determination to faithfully protect the interests of the operator and the miner in the matter of Carbide quality, from the time the Carbide is packed at the works until it is consumed by the miner.

We have Union Carbide Warehouses in 175 cities.

UNION CARBIDE

Maximum Quality and Exceptional Service

have been developed to maintain the many money-saving and efficiency producing advantages realized by Operators and Miners through the use of Carbide lamps.

Carbide Lamp Advantages

Low Cost of lamp.

Remarkably low cost of upkeep.

Long life of lamp.

Light in weight—Does not handicap miner.

Lamp very compact — No burdensome entanglements. Because of the widely diffused light, miner can easily observe conditions relating to the personal safety of himself and fellow miners. A wonderful aid to mine foremen in getting efficient and economical results.

The Carbide Lamp is easily understood and easily cared for by every miner.

Miner can always assume the posture—standing, bending or kneeling—which will enable him to work with greatest

comfort, and light is always directed just where he needs it.

Greater volume of light than from any other type of mine lamp.

Minimizes number of accidents resulting from poor lights.

Working places can be more easily and thoroughly inspected, and dangerous roof, wall and floor conditions detected with greater certainty. No eye strain when Carbide lamps are used. Eyestrain means loss of general efficiency.

Carbide Lamp can always be used as convenient Hand Lamp, or can be hung up.

Size of flame and volume of light easily regulated.

Carbide Lamps, used in and about mines, have accomplished more for the comfort and convenience of miners than any other development, invention or device of the twentieth century. Union Carbide Gas light is more nearly like the natural light of the sun than any other light known to man. The miner can accomplish more and better work, with greater ease, comfort and safety, than would otherwise be possible.

Our Blue and Gray Drum is, throughout the world, recognized as a symbol denoting:

**Best Grade Carbide
Highest Gas Value**

**Uniform Dependable Quality
Purest Gas**

Union Carbide Sales Company

Principal Offices:

Peoples Gas Bldg.,
Chicago, Ill.

Carbide and Carbon Bldg.,
New York, N. Y.

Balfour Bldg.,
San Francisco, Calif.

COALS *of* QUALITY

Lignite—

Puritan--Weld County District

Monarch--Louisville District

Bituminous—

Thor--Trinidad District

Royal--Walsenburg District

Our Puritan Mine is the largest producer of domestic lignite coal in the state of Colorado. Our Monarch Mine is the largest producer in the Louisville District (Colorado).

For the months of October and November, 1925, the Puritan tonnage ranked second while for the months of December, 1925, and January, 1926, the Puritan Mine produced more coal than any other mine in the state of Colorado.

NATIONAL FUEL COMPANY

PRODUCERS AND SHIPPERS

511-520 Colorado Bldg.

Denver, Colo.

The Fastest, Most Accurate and Cheapest Method of Undercutting Commutator Mica

HULLHORST Mica Undercutter

Undercuts in $1\frac{1}{10}$ the time and reduces labor cost 90%



Portable Mica Undercutter No. 6; rigid steel shaft. Operates on light circuit. Undercuts commutators up to 28" in dia. Gladly shipped on trial. Price, with 110-volt Universal motor, $9/32$ " cutters, and carrying case, \$44.00.

Commutator mica is undercut *accurately* to a *uniform* depth, with the Hullhorst—it helps to obtain the best service from armatures. With this tool a job is completed in $1/10$ the time usually required by obsolete methods, and the labor cost is reduced 90%.

We manufacture undercutting tools exclusively, for undercutting all sizes of commutators, including two Undercutters used in coal mines. You may have our descriptive catalog—write for it.

The Hullhorst Micro Tool Co.

Dept. 5, Toledo, Ohio

Justrite
TRADE MARK

**CARBIDE
MINE
LAMPS**

Safe--Durable--Strong

For operators as well as miners *Justrite* lamps have been made of the best material and workmanship in order that the highest efficiency and best service could be maintained. *Justrite* lamps throw a strong, penetrating light which keeps the miner's efficiency to a high standard and increases his production—naturally the mine output. These are important facts for the operator.

No. 407 Lamp



With wire feed and $2\frac{1}{2}$ " reflector. A sturdy lamp that will always give good results.

No. 747 Lamp



Polygon feed lamp with 4" nickel reflector. Gives penetrating light excellent for inspectors and shift bosses.



No.
661
Lamp

The upright "Victor" lamp for miners who prefer the vertical construction. A strong durable lamp.

Ask for CATALOG showing all models

JUSTRITE MANUFACTURING CO.

2064-2081 SOUTHPORT AVE.
CHICAGO, U. S. A.

Carroll Feed Chains

For Use on Coal Mining Machines

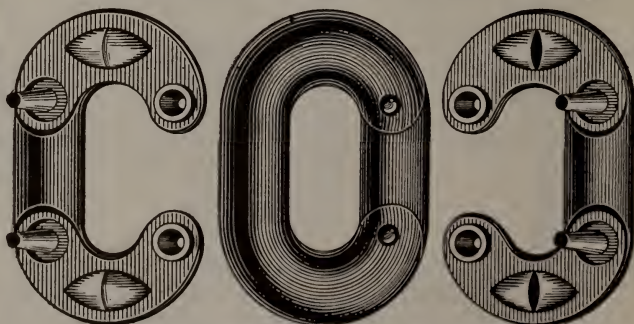
The successful operation of under-cutting machines depends in no small measure upon the stamina and reliability of the Feed Chains.

Your confidence in Carroll Chains will not be misplaced. Built Right ---- Serve Well.

Trial orders solicited

Commercial Chain
Crane & Sling Chains
Coupling Links & Chains
Power Shovel Chain

"Carroll Quality" Products
FEED CHAIN REPAIR LINKS



Drop forged from high grade steel and heat-treated in the same manner as the chain.

The Carroll Chain Co.
COLUMBUS, OHIO



LOOK FOR THE LABEL



**HEAT
ECONOMY
SATISFACTION**



**Sent
on
trial**

**2
minutes to
a shot hole!**

That's going some! But it is easy with "The Cincinnati" Portable Electric Coal Drill. Holes 2½" in diameter, 8 ft. deep, are daily drilled with it in 2 minutes or less. Handled by one or two men. Durably constructed throughout. Write for Bulletin 113 and full information regarding our trial offer.

THE CINCINNATI ELECTRICAL TOOL CO.
Madison and Edwards Roads CINCINNATI, OHIO

**IT WILL PAY
YOU TO
INVESTIGATE**



SEND FOR
BULLETIN

NO. C9

THE BROWNE HOIST

**FOR HANDLING MINE CARS ON GRADES
IN ROOMS AND HEADING**

100% SAFE. All working parts enclosed.

DRUM will operate only when clutch is held in.

FRICTION DRIVE permitting complete control of rope.

CAPABLE of developing 1500 lbs. rope pull at 100 ft. per min.

Manufactured by
THE BROWN-FAYRO COMPANY
Johnstown, Pennsylvania

Distributed by
Hendrie & Bolthoff Mfg. and Supply Co.
Denver, Colorado

HAYDEN

Routt County--Oak Creek District

COAL

"The Coal That Cauliflowers"

What does this mean--and **why** does Hayden Coal "cauliflower" as it burns?

This question is on everyone's lips and we will answer it.

The unusual **hardness** of Hayden Coal is doubtless accountable for the fact that it opens up like a cauliflower as it burns--burning red hot to the very core and yet **holding together** and forming a natural radiator for the heat.

Highest Analysis

Of Any Coal From Routt County

--and also the only shaft mined coal in Routt County. Coming from a shaft 350 feet deep it is singularly clean and free from "crop" or surface coal. The exceptionally high analysis (furnished on request) --the extreme hardness and unusual cleanliness--and the fact that this coal "cauliflowers"--are the reasons why Hayden Coal

Burns Hotter---Lasts Longer

A Test Will Prove It

Hayden Bros. Coal Corp.

Tramway Bldg., Denver

C. W. Brown, General Manager

The Moffat Coal Co.

Highest Grade Domestic and Steam Coal

Mines at Oak Hills, Routt County



GENERAL OFFICE

Phone Champa 44

504 Gas & Electric Bldg.

Denver, Colo.

McMURTRY LIQUID KARBON

A Durable and Protective
Coating for the Preservation
of Iron and Steel in mine
buildings, etc. - - - -

Manufactured by

The
McMURTRY
MANUFACTURING CO.

Paint and Varnish Makers
Plate, Window Glass and
Mirrors - - - -

1533 Arapahoe St. Denver



A Practical & Efficient
Flexible Tubing
for
Mine Ventilation

Full Information
Sent on Request

**E. I. du Pont de Nemours
and Company**

NEWBURGH, NEW YORK

Denver Office, 406 Ideal Bldg.

"SAFETY FIRST"

Use "CARD" equipment from
the face to the railroad cars



Specialists in the design and manufacture

of

CARS

TIPPLE EQUIPMENT

TRACKWORK

ROLLERS & SHEAVES

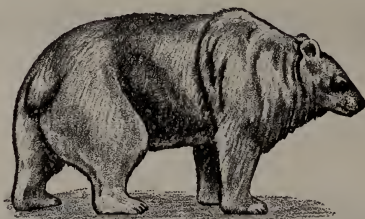
The C. S. CARD
IRONWORKSCO.

DENVER

COLORADO

THE FRAKER COAL COMPANY

Producers of
THE GENUINE BEAR RIVER COAL



A Bear For Heat

Mines at Bear River, Routt County, Colorado
General Offices at Denver, Colorado

Westinghouse

Serving the Rockies
 from

Sales Offices

Denver, Colo.
Gas & Elect. B.

Pueblo, Colo.
Central Block

Casper, Wyo.
Cottman B.

Salt Lake City, Utah
Terminal B.

Service Shops

Denver, Colo.
1909 Blake Street

Salt Lake City, Utah
573 W. 2nd South Street

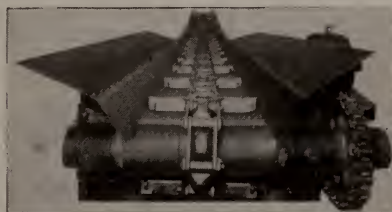
The Westinghouse Electric and Mfg. Co.



The Link-Belt Tipple of the Spring Canyon Coal Company, Spring Canyon, Utah.

Whether your problem is one of coal preparation in tipple or washery; or one of low cost conveying from the face—let Link-Belt experienced engineers help you solve it.

Coal Tipples
Coal Washeries
Loading Booms
Picking Tables
Vibrating Screens
Face Conveyors
Spiral Separators
Electric Hoists
Locomotive Cranes
Crawler Cranes



One of several types of Face Conveyors designed by Link-Belt Company. This type is being used by Gunn-Quealy Coal Co., Sweetwater, Wyoming.

Screens (various kinds)
Retarding Conveyors
Car Dumps, Car Hauls
Crushers
Manierre Box Car Loaders
Conveyors of every type
Chains, Wheels, Buckets
Silent Chain Drives
Roller Chain Drives
Portable Loaders

LINK-BELT COMPANY

2550A

Leading manufacturers of Elevating, Conveying and Power Transmission Machinery.

PHILADELPHIA
2045 Hunting Park Ave.

CHICAGO
300 W. Pershing Road

INDIANAPOLIS
200 S. Belmont Ave.

520 Boston Bldg.

Denver, Colorado

LINK-BELT

DUNCAN

Foundry and Machine Works

Alton, Illinois

Manufacturers of

Mine cars, roller bearing, self
oiling and plain wheels,
axles, self dumping
cages, etc.

The Machinery Sales Company

611-612 Cooper Bldg. Denver, Colorado

OFFERS

USED AND REBUILT MACHINERY

For

Mines, Mills, Quarries, Power Plants

*Guaranteed to Render the Same Service as When New
Ask for Prices on*

Steam Boilers
Steam Engines
Steam Hoists
Pumps of All Kinds
Pipe, Rail, Etc.

Electric Motors
Electric Generators
Electric Hoists
Box Car Loaders
Conveyors

Air Compressors
Machine Shop Tools
Woodworking Mchy.
Cutting Machines
Drills, Punches

Send for Stock List No. 90

We do All Kinds of Repair Work

The
**COLORADO & UTAH
COAL COMPANY**

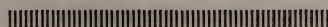


Miners & Shippers

HARRIS

ROUTT COUNTY
COLORADO

C-O-A-L



First National Bank Bldg.

Denver

Branch Offices—Dallas, Amarillo, Omaha, McAlester and Kansas City

The Sunnyside Coal Mining Co.

W. F. OAKES, President

ELLEN TERRY ROBINSON, V. P. and
Treasurer

General Office, Denver, Colorado

R. T. Bell, Supt.



Tipple and Screening Plant of The Sunnyside Coal Mining Company, Strong, Huerfano County, Colorado

STATEMENT SHOWING RECEIPTS AND DISBURSEMENTS FROM JANUARY 1, TO DECEMBER 31, 1925

RECEIPTS

Tax collected on coal mined	\$38,069.04
From sales of copies of the Coal Mining Laws.....	692.65
Refunds and sales of old instruments.....	17.01
Advertising in Annual Report.....	520.00
Balance brought forward from 1924.....	7,159.73
	<hr/>
Total.....	\$46,458.43

DISBURSEMENTS

Salaries of entire Department.....	\$22,788.98
Expense, Chief and Deputy Inspectors.....	5,083.30
Fatal accident investigators, per diem and expenses.....	188.44
Mileage books (R. R. Transportation).....	1,170.00
Automobile, supplies and repairs.....	3,314.05
Board of Examiners, per diem and expenses....	1,093.23
Printing	1,442.97
Postage	505.30
Stationary supplies	261.02
Telephone service	118.96
Telegraph service	35.11
Instruments	190.95
Express	5.15
Miscellaneous	316.48
	<hr/>
Total.....	\$36,513.99
	<hr/>
Surplus December 31, 1925.....	\$ 9,944.44

FIELD EQUIPMENT

One Buick Coach	Five Speedometers
Four Ford Coupes	One Carbon Monoxide Gas Detector
Seven Anemometers	Six Keohler Safety Lamps
One Psychrometer	One Aneroid Barometer
One Geophone	

SUMMARY OF THE COAL PRODUCTION OF COLORADO, 1925

*Number of mines operated.....	283
Number of new and old mines opened.....	36
Number of mines closed, 30; abandoned, 3; total.....	33
Tons of sub-bituminous coal produced.....	2,741,901
Tons of semi-bituminous coal produced.....	838,688
Tons of bituminous coal produced.....	6,721,934
Tons of semi-anthracite coal produced.....	53,742
Tons of anthracite coal produced.....	84,122
Total number of tons of coal produced.....	10,440,387
Decrease, 1925	60,701
Tons of run of mine coal produced.....	2,859,434
Tons of lump coal produced.....	3,235,005
Tons of nut coal produced.....	1,064,566
Tons of pea coal produced.....	244,336
Tons of slack coal produced.....	3,037,046
Percentage of slack produced.....	40.1
Tons of coal mined by hand.....	5,147,295
Tons of coal mined by machine.....	5,293,092
Kind and number of machines used: Compressed air, 119; Electric, 306; total.....	425
Tons of coal mined for shipment.....	9,347,661
Tons of coal shipped out of the state.....	2,472,994 ✓
Tons of coal sold to local trade and used by employees.....	668,216
Tons of coal used at the mines for steam and heat.....	229,883
Tons of coal made into coke.....	1,068,365
Tons of coke made.....	645,868
Number of days coke ovens were operated.....	328
Number of coke ovens used.....	432 ½
Number of men employed at coke ovens.....	201
Number of miners employed: Pick, 4,485; Machine, 3,761; total...	8,246
Number of men employed in and about mines (average).....	12,228
Number of employees foreign born.....	5,203
Number of employees speaking English.....	11,901
Average number of days worked (man-days).....	186.6
Daily production per miner.....	6.78
Annual production per miner.....	1,266.11
Number and type of safety lamps used; Flame, 917; Electric, 9,041; total.....	9,958
Number of carbide lamps used.....	5,424
†Number of pounds of carbide used (approximately).....	196,799
Number of pounds of permissible powder used.....	926,127
Number of pounds of black powder used.....	1,408,213
Number of pounds of dynamite powder used.....	46,677
Number of men killed: Underground, 52; surface, 5; total.....	57
Number of men injured.....	1,912
Number of men killed per thousand employed.....	4.66
Number of men injured per thousand employed.....	156.36
Number of tons of coal produced for each life lost.....	183,165
Number of tons of coal produced for each non-fatal accident.....	5,460
Number of men killed per million tons of coal produced.....	5.46
Number of men injured per million tons of coal produced.....	183.13
Number of men employed per fatal accident.....	214.5
Number of men employed per non-fatal accident.....	6.4
Number of widows left	35
Number of children left fatherless.....	96
Cost of development work in mines during 1925: 120 mines reporting.....	\$ 674,641.00
Number of days lost account of car shortage: 39 mines reporting.....	406
Number of tons of coal lost through labor shortage: 24 mines reporting.....	84,400

*NOTE: The yearly reports of five of the above 283 mines were filed too late to embody their combined production of 304 tons in the tables of this Annual Report. However, they are included in the Mine Directory or Table No. 1.

†NOTE: A number of mines did not report the carbide used as same was furnished by employees.

Thirteenth Annual Report OF THE State Inspector of Coal Mines 1925

INTRODUCTION

The year 1925 shows 238 coal companies and individual operators reporting the output of 283 mines totaling 10,440,387 tons of coal, a decrease of 60,701 tons as compared with 1924. The average number of men employed in and about the mines was 12,228, or 475 men less than in the preceding year. Number of man-days worked was 186.6, an increase of 5.1 more days than in 1924. Out of the 283 mines recorded, 159 have no railroad connections although several of them ship coal a distance of 50 miles by trucks, the balance of them supply local trade only. Most of these mines are idle during the spring and summer.

Fifty-seven lives were lost in and around the coal mines of Colorado in 1925. Thirteen more than in 1924. Thirty-seven of them happened at the working face. Fourteen of them happened on haulage ways. Eleven on mechanical and three on animal haulages. In former reports the location of fatal accidents have only been given in the write-up on individual accidents; on account of the great increase in our fatal accidents this year over 1924, the location of accidents for 1923, 1924 and 1925 is given so that the management may know where to increase and improve supervision so that fatalities may be kept down to the minimum reached in 1916, and again in 1924. In 1916, 3.35 lives were lost per 1,000 employed, and in 1924, 3.48, and this year it will run 4.66 lives lost per 1,000 employed. In 1923, 66 lives were lost, 52 of them happened at the face. In 1925, 57 lives were lost, 37 of them happened at the face, so that in 1923, 79 per cent of all fatal accidents were at the face; in 1924, 75 per cent at the face. in 1925, 65 per cent at the face; and 14 lives were lost on haulage ways.

The death rate of 4.66 is an increase of 33.9 per cent as compared with the preceding year. The non-fatal accidents numbered 1912 or 61 more men injured than in 1924, and an increase of 7.3 per cent over the year before. The number killed per million tons of coal produced was 5.466 men and the number injured 183.13 men. There was an explosion at the Gordon mine in which three men lost their lives and a serious fire at the Empire mine in which no lives were lost, but considerable damage done to the property.

To reduce the accidents at the face, I would recommend that whenever the mine is so large that every working face cannot be visited by the mine foreman four times during the shift of eight hours, twice before dinner, and twice after dinner, that such mines be partitioned into districts and a first class, or an

assistant first class certified man be put in charge of each district so that the number of daily visits above given can be made.

The question of reducing haulage accidents is a very difficult one, and can only be remedied by the management through improving haulage ways, keeping equipment in good working condition, seeing that all the requirements of the law are enforced, that those employed are reasonably competent to do the work intended, and whenever an accident is caused by defective work or equipment, remedy the cause at once. The increase in accidents is no doubt the result of the turn over in labor as a result of the reduction in wages, when many of the most competent workers left the state to seek employment in other states where no reduction in wages had taken place; this applies especially to the haulage accidents as most of the drivers, rope-riders, and motor men are young men who have been raised around the coal mines since boyhood, their places have been filled in many cases by inexperienced men from the country and cities.

ACCIDENTS SHOWN BY AGE AND EXPERIENCE

Age of Deceased	Number of Accidents	Years of Experience	Number of Accidents
16 to 21 years	3	0 to 1 year	4
22 to 25 years	6	1 to 2 years	3
26 to 30 years	7	3 to 5 years	13
31 to 35 years	12	6 to 10 years	11
36 to 40 years	10	11 to 15 years	8
41 to 45 years	7	16 to 20 years	6
46 to 50 years	5	21 to 25 years	4
51 and over	7	26 and over	5
Not given	0	Not given	3
Total	57		57

The increased rate of fatal and non-fatal accidents is not encouraging, especially considering the great efforts that are being made by many companies to impress safety rules on their mine employes and the installing of safety appliances to aid in the protection of life. However, many of the fatal accidents occurred in small mines where the law is not complied with, two men were killed in mines of which we had no record, and, strange as it may seem, so far have been unable to get in touch with the owners or operators of them. Both mines are far away from a railroad and the letters addressed are either returned undelivered, or not answered. Presumably these mines take out coal only when needed by consumers nearby. A third man was killed by a small gas explosion at the face of a rock tunnel that is being driven at Camp Genter to develop an anthracite mine. As the coal has just been exposed, this property is not classed among the producing mines.

Since the present law was put into effect in 1913, the department has not been able to enforce it equally among the large and small mines. The law was intended to apply to all mines equally, but as the funds of the department were limited, the expense entailed to cover all mines by regular inspections was out of the

question, being scattered over a wide territory, and many operating only intermittently, it was impossible to reach them as demanded by the law. Therefore, a bill was passed by the last legislature increasing the coal tax from $\frac{1}{3}$ of one cent to $\frac{4}{10}$ per ton, giving the department more funds to make more frequent inspections and enforcing the law. Before the department made any effort to put into effect the enforcing of the law equally, a series of meetings were held at various mining centers where the operators of these small mines would find it convenient to attend. The rules to be enforced were thoroughly explained and three months time given the operators to comply. A storm of protests from most of the operators affected and also consumers of the districts in which these mines are located, flooded the Governor and this Department. Few could see the necessity of safety measures and rather than comply, closed down their mines, or are operating them in defiance of the law, and suits were started restraining this Department from closing them down as was the intention, and in a few instances carried out. After several trials were held, one judge ruled that the law was not applicable to all coal mines and the Department is carrying the case to the Supreme Court for a final decision. However, as a result of the agitations, sixty-two fans have been bought and are installed, or will be shortly. The greatest objection to complying with the law was that demanding a certified official to manage the mines. The solution to this question lies in the operator himself qualifying by becoming a certified mine official. Consequently the past year has been rather strenuous and a costly affair for the Department.

Many permanent improvements were made at the mines, such as installing 1,181 more electric lamps, many new fan houses were built, engines, gas and electrically driven, as well as cutting machines, pumps, compressors, coal crushers, rock dusting machines, air drills, wagon scales, portable conveyors, hoists, puncher machines, shakers and screening plants were installed, several new tipples built, and other improvements made. Several companies built dwellings to house their employes more comfortably. Despite the fact that the coal business was bad in 1925, the progressive spirit of the operators was not disheartened, but continues to build and bid for a greater future.

Naturally there were no new mines developed excepting one in Weld county by the Lincoln Coal Co. This company is sinking a vertical shaft 276 feet deep to the top of a ten-foot seam of sub-bituminous coal. The mine is located on the Union Pacific R. R. line, about three miles northeast of Erie. It is being equipped with a hoist having a 1,500-ton daily capacity. The management expects to produce coal by May 1, 1926.

The printing bills of this Department have been steadily mounting in the last two years, and in order to lessen the expense, it was decided to solicit advertising for the printing of the

Annual Report. While this is not a new innovation, the idea was obtained from an Annual Report published by the Mine Inspector of Alabama, and was put into effect by us two years ago, but only sufficient advertising matter was obtained to pay part of the cost. This year the matter was turned over to an advertising agent who agreed to get sufficient advertisement to pay for the entire cost of printing. It is too bad that we feel compelled to do so as it obscures the intent of the report, which should be strictly a compilation of the coal statistics of Colorado. However, I take this opportunity to request all readers of the Report to give the advertisements consideration when in need of the wares made known here, also to thank the advertisers for their favor and hope that their expenditure will not prove fruitless. See page 3, Directory of Advertisers.

While it is not the custom to mention in the Annual Report anything not happening in the year covered by it, I deem it necessary to say in this report a few words considered of real importance concerning two explosions that took place in January, 1926, one in the Bear Canon mine, and the other in the Harvey Gap mine, and which cost seven lives. Both of them happened in non-gaseous mines, naked lights were used exclusively in both mines for general purposes. These occurrences so disastrous to human life point out to us very plainly the great possibilities of a non-gaseous mine becoming gaseous instantly. Are we going to benefit by those sad experiences by classifying all coal mines gaseous?

In conclusion I wish to thank the operators for their co-operation with this Department in the effort to make the mines as safe and sanitary as possible, the field and office officials for giving faithful observance to their duties.

Total Inspections made in 1925.....	802
*Total Mines Inspected.....	334
Number of Fatal Accidents Investigated by Inspectors and Special Investigators.....	48
Number of Inquests Attended by Inspectors and Special Investigators	38
Scale Inspections	12
Complaints Investigated	23
Prosecutions	9
Miles Traveled by Auto.....	45,629
Railroad Scrip Used.....	\$1,170.00

Respectfully submitted,

(Signed) JAMES DALRYMPLE,
State Inspector of Coal Mines.

*The above summary shows 334 mines inspected, while the operators reported 283 producing mines. This discrepancy is accounted for by the operators reporting such mines as Oakdale No. 1 and No. 2, and Pinnacle No. 1 and No. 2 as one mine. Also a number of small mines that are inspected when found operating, but who fail to report and cannot be traced as they change hands so often no one seems to be responsible for them.

TABLE No. 1
DIRECTORY OF COAL MINES IN STATE OF COLORADO FOR THE YEAR ENDED DECEMBER 31, 1925

Name of Company	Name of Mine	County	Name of Manager or General Superintendent	Post Office	Name of Superintendent	Mine Post Office Address	Railroad to Mine	Geological Name or Number of Coal Bed Worked	Average Thickness	
									Feet	In.
Crane & Robinson	Crane	Archuleta	Leroy R. Crane	Ignacio	Leroy R. Crane	Bayfield	None		12 to 14	
Cox Coal Co.	Cox	Archuleta	T. L. Cox	Packosa Springs	T. L. Cox	Packosa Springs	None		5	
Rocky Mountain Fuel Co.	Industrial	Boulder	Geo. T. Pearl	Denver	Thomas Gibby	Superior	C. & S.	Lower Industrial	4 1/2 to 9	
Rocky Mountain Fuel Co.	Simmons	Boulder	Geo. T. Pearl	Denver	David Allen	Lafayette	C. B. & Q.	Lower Lafayette	6 to 14	
Rocky Mountain Fuel Co.	Acme	Boulder	Geo. T. Pearl	Denver	I. C. Williams	Louisville	C. & S.	Lower Louisville	5 to 6	
Rocky Mountain Fuel Co.	Standard	Boulder	Geo. T. Pearl	Denver	Geo. Swearingen	Lafayette	C. B. & Q.	Lower Lafayette	4 to 6	
Rocky Mountain Fuel Co.	Gorham	Boulder	Geo. T. Pearl	Denver	Thomas Hilton	Gorham	C. & S.	Lower Gorham	5 to 7	
Rocky Mountain Fuel Co.	Rocky Mountain	Boulder	Geo. T. Pearl	Denver	Charles Hillington	Lafayette	C. B. & Q.	Upper Vulcan	5 to 9	
National Fuel Co.	Monarch No. 2	Boulder	Samuel Tescher	Denver	Henry Richards	Hroomfield	C. & S.	Laramie Cretaceous	5 to 6	
Big Four Coal & Coke Co.	Centennial	Boulder	Eph Nesbit	Denver	Richard Husband	Louisville	C. & S.	Laramie Formation	5 to 6	
Ajax Coal Mining Co.	Capitol	Bonfield	Charles Lilley	Louisville	Charles Lilley	Louisville	C. B. & Q.	Laramie Formation	5 1/2 to 7	
Black Diamond Coal Co.	Black Diamond	Boulder	H. H. Parker	Boulder	Tom Thone	Boulder	None		5	
Crown Fuel Co.	Crown	Boulder	W. W. Cowdery	Denver	George Cowdery	Gorham	C. & S.		4	9
Domenico & Sons, Inc.	Laramount (Chautauq)	Boulder	S. Domenico	Louisville	S. Domenico	Louisville	C. & S.		6	6
Head Brothers	Nonpareil	Boulder		Denver	None closed permanently					
Cracker Jack Coal Co.	Cracker Jack	Boulder	J. A. Williams	Boulder	J. A. Williams	Boulder	None		7	
Boulder Black Hawk Coal Co.	Boulder Black Hawk	Boulder	C. M. Goldard	Boulder	W. L. Galloway	Boulder	None		7	
Davies Coal Co.	Lewis	Boulder	T. L. Davies	Gorham	T. L. Davies	Gorham	None	Laramie Formation	5	
Red Ash Coal Co.	Red Ash	Boulder	D. H. Davies	Gorham	D. H. Davies	Gorham	None		5	
Cambro Mining Co.	Cambro	Boulder	J. M. Salvage	Louisville	J. M. Salvage	Louisville	None		5	10
Matchless Fuel Co.	Matchless	Boulder	S. A. Snyder	Denver	J. W. Schullz	Gorham	None		9	
Juanita Coal & Coke Co.	King	Delta	R. S. Bowler	Howie	A. R. Bowler	Bowie	D. & R. G. W.	Mesa Verde Formation	11 to 21	
Green Valley Coal Co.	Green Valley	Delta	R. J. Campbell	Paonia	H. J. Campbell	Cedaredge	None		8	
Paonia Farmers Coal Co.	Red Canon	Delta	W. L. Wade	Cedaredge	Edward Cox	Paonia	None	Mesa Verde Formation	9	
Wade Coal Co.	Red Canon	Delta		Cedaredge	W. L. Wade	Cedaredge	None		2	5
States Hall Coal Co.	States	Delta	A. W. Hall	Cedaredge	C. L. Wiley	Cedaredge	None	Rollins No. 1	14	
A. W. Hall & Son	Red Mountain	Delta	C. W. Hall	Cedaredge	C. E. Hall	Cedaredge	None		8	6
Independent Coal Co.	Independent	Delta	P. L. Clipp	Cedaredge	P. L. Clipp	Cedaredge	None	Mesa Verde Formation	2	6
E. A. Ellishimons	Herry	Delta		Paonia	E. A. Ellishimons	Paonia	None		2	6
Mike Mungan	Kurtzville	Delta		Hotchkiss	Mike Mungan	Hotchkiss	None		12	
Frank Converse	Converse	Delta		Paonia	Frank Converse	Paonia	None		10	
Winton Coal Co.	Winton	Delta	J. C. Howerton	Austin	J. C. Howerton	Austin	None	Rollins No. 1	10	6
Richard Hodges	Getwick	Delta		Paonia	Richard Hodges	Paonia	None		5	
Rowland Owens & Sons	Owens	Delta		Hotchkiss	Rowland Owens	Hotchkiss	None		4	
McMillin Bros.	Rollins	Delta		Delta	Harry McMillin	Delta	None		10	6
Bennett Coal Co.	Bennett	Delta	M. W. Bennett	Hotchkiss	M. W. Bennett	Hotchkiss	D. & R. G. W.		6	
J. R. De Graffentried	De Graffentried	Delta		Hotchkiss	J. R. De Graffentried	Hotchkiss	None		7	6
Burntall Fuel Co.	Burntall	Elbert		Matheson	R. E. Ferguson	Matheson	None	Laramie Formation	9	
Lee & Son	Mascot	Elbert		Matheson	D. Lee	Matheson	None		6	
Wright Barker	Wright	Elbert		Matheson	Wright Barker	Matheson	None		10	
Pike Peak Fuel Co.	Pikeview	El Paso	Henry Thomas	Colorado Springs	Henry Thomas	Pikeview	D. & R. G. W.	Pox Hill	8 to 12	
Keystone Mining Co.	Keystone	El Paso	Henry Thomas	Colorado Springs	Harry Bennett	Colorado Springs	C. R. & P.	Laramie Formation	3 to 6	
Colorado Springs Company	City Coal Mines	El Paso	George H. Krause	Colorado Springs	A. O. Hoffman	Colorado Springs	A. T. & S. F., C. R. & P.		6 to 20	
W. D. Corley	Corley	El Paso		Colorado Springs	Chas. Melbuer	Colorado Springs	None		6	
W. D. Corley	Franceville	El Paso		Colorado Springs		Colorado Springs	None		6	
Altitude Coal Co.	Altitude	El Paso		Colorado Springs	Edwin Howells	Colorado Springs	None		4	6
Danville Coal Co.	Danville No. 3	El Paso	W. D. Tudor	Colorado Springs	W. D. Tudor	Colorado Springs	None		11	
Golden Dawn Coal Co.	Golden Dawn	El Paso		Colorado Springs	None	Yoder	None		6	
McCurdy Coal Co.	McCurdy	El Paso	W. McCurdy	Manitou	G. L. McCurdy	Ruth	None		6	
Cottonwood Coal Co.	Cottonwood	El Paso	Fred Sevelk	Colorado Springs	Fred Sevelk	Colorado Springs	None		3 to 4	
Drennon Coal Co.	Drennon	El Paso	B. S. Titus	Colorado Springs	B. S. Titus	Colorado Springs	None		6	6
Cunningham & Elliott	Cunningham	El Paso	T. F. Elliott	Colorado Springs	T. F. Elliott	Colorado Springs	None		1	3
Colorado Fuel & Iron Co.	Coal Creek	Fremont	D. A. Stout	Pueblo	J. D. Cribbs	Rockvale	A. T. & S. F.	Laramie Canon	3	8
Colorado Fuel & Iron Co.	Rockvale	Fremont	D. A. Stout	Pueblo	J. D. Cribbs	Rockvale	A. T. & S. F.	Laramie Canon	3	8
Colorado Fuel & Iron Co.	Fremont	Fremont	D. A. Stout	Pueblo	W. J. Davis	Florence	D. & R. G. W.	Laramie Formation	2 1/2 to 4	
Colorado Fuel & Iron Co.	Norac	Fremont	D. A. Stout	Pueblo	Charles O'Neill	Canon City	A. T. & S. F.	Canon City	6	
Colorado Fuel & Iron Co.	Emerald	Fremont	D. A. Stout	Pueblo	W. J. Davis	Florence	A. T. & S. F.	Laramie Formation	2 to 3	
Victor-American Fuel Co.	Chandler	Fremont	B. W. Snodgrass	Denver	A. E. Thompson	Chandler	D. & R. G. W.	Laramie Formation	5	
Victor-American Fuel Co.	Radland	Fremont	B. W. Snodgrass	Denver	P. M. Mosler	Pyrolite	A. T. & S. F.	Laramie Formation	3	6
Canon-Relliance Coal Co.	Canon	Fremont	H. H. Pinkney	Canon City	Dave Dalrymple	Canon City	A. T. & S. F.	Wolf Park	4 to 6	9
Vezzell & Moschetti	Brookside	Fremont		Canon City	Tom Creechle	Canon City	None	Laramie Formation	5	6
Roche Coal Co.	Roche	Fremont		Coal Creek	James Roche	Coal Creek	None		1	6
Griffiths Coal Mining Co.	Griffiths	Fremont		Canon City	David Griffiths	Canon City	None	Ocean Wave	3	10
Double Dick Coal Co.	Double Dick	Fremont		Coal Creek	Tony Santarelli	Coal Creek	None		2	8
Cowan Coal Co.	Bluff Springs No. 1	Fremont	Joseph Cowan	Florence	P. Westmair	Florence	None		3	
Bluff Springs Coal Co.	Bluff Springs No. 2	Fremont	C. J. Caldrola	Florence	Foster Tansout	Florence	A. T. & S. F.	Rockvale	3	4
Sunshine Coal Co.	Bluff Springs No. 3	Fremont		Florence	James Della	Florence	None		2	
Canon District Coal Co.	Florence Canon	Fremont	John Lipps	Canon City	M. B. Sennerville	Canon City	D. & R. G. W.		3	5
Black Hawk Coal Co.	Magnel	Fremont	J. J. Wilfong	Canon City	C. A. Linkins	Canon City	None	Chandler	3	8
Canon United Coal Co.	Jack O' Lantern	Fremont	C. A. Linkins	Canon City	Mozart Lewis	Canon City	None		4	
Canon Coal Association	Heawster	Fremont		Canon City	J. A. Moschetti	Florence	None	Rockvale	2 to 3	6
Royal Gorge Coal Co.	Royal Gorge	Fremont	Stanley Pavalsky	Canon City	Stanley Pavalsky	Canon City	None		4	
Canon Quality Coal Co.	South Magnel	Fremont	J. Zontine	Rockvale	J. Zontine	Rockvale	None		3	
San Petry Coal Co.	Wille	Fremont		Florence	San Petry	Florence	None	Rockvale	3	
North Magnet Coal Co.	North Magnet	Fremont	Mike Marone	Florence	Mike Marone	Florence	None	Magnel	4	
Gilson Asphaltum Co.	Carbonera	Garfield	L. C. Sprague	Mack	Homer D. Ford	Mack	U'niah		7	4
James F. Bates	Carbonera	Garfield		Mack	R. E. Bates	Mack	None		8	6
Canon Mine Leasing Co.	South Canon	Garfield	Richard Prendergast	Glenwood Springs	Richard Prendergast	Glenwood Springs	None		4	
Herman Coal Co.	Herman	Garfield	Chas. Rauman	Rifle	Chas. Rauman	Rifle	None		4	
Hille Coal Co.	McLearn	Garfield		Rifle	W. S. Spurling	Rifle	None		7	
Bracken & Cozza	Harvey Gap	Garfield		New Castle	Dan Bracken	New Castle	None		3	6
Glendale Mining Co.	Glendale	Garfield		Glenwood Springs	Frank Deloy	Glenwood Springs	None		2	
Zullo & Perko	Karnes	Garfield		Glenwood Springs	Joe Perko	Glenwood Springs	None		1	8
Calumet Fuel Co.	Somerset	Gunnison	F. N. Cameron	Salt Lake City, Utah	Robert Williams, Jr.	Somerset	D. & R. G. W.	Mesa Verde	12	
Colorado Fuel & Iron Co.	Crested Butte	Gunnison	D. A. Stout	Pueblo	W. J. Tyson	Crested Butte	D. & R. G. W.	Laramie Cretaceous	23	
Colorado Fuel & Iron Co.	Elk Mountain	Gunnison	D. A. Stout	Pueblo	W. J. Tyson	Crested Butte	D. & R. G. W.	Laramie Cretaceous	3 1/2 to 10	
Crested Butte Coal Co.	Bulkeley No. 2	Gunnison	J. M. Page	Denver	J. J. McIntyre, Sr.	Crested Butte	D. & R. G. W.		4	
Crested Butte Anthracite M. Co.	Smith Anthracite	Gunnison	J. M. Page	Denver	William McShane	Crested Butte	D. & R. G. W.	Laramie Cretaceous	4	6
Rosa Coal Co.	Horace	Gunnison	C. L. Ross	Crested Butte	W. L. Kerr	Crested Butte	D. & R. G. W.	Laramie Cretaceous	3	
Rocky Mountain Fuel Co.	Alpine	Gunnison	Geo. T. Pearl	Denver	J. Featherstone	Baldwin	D. & R. G. W.	Baldwin, Lower	7	
Oliver Fuel & Coal Products Co.	Oliver	Gunnison	C. J. Oltyer	Excelsior Springs, Mo.	Charles T. Hub	Somerset	None		21	
Ohio Creek Coal Mining Co.	Ohio Creek	Gunnison	W. S. Clark	Gunnison	W. S. Clark	Gunnison	D. & R. G. W.		5	6
Baldwin Fuel Co.	Baldwin Star	Gunnison	Worker under contract	Denver	Wm. J. Iuvill	Baldwin	D. & R. G. W.		7	
Bonner Bros. Coal Co.	Bonner	Gunnison	Geo. D. Bonner	Gunnison	Geo. D. Bonner	Gunnison	D. & R. G. W.		9	1
Carbon Creek Coal Co.	Carbon Creek	Gunnison		Gunnison	Wm. Waugh	Gunnison	None		4	
Colorado Fuel & Iron Co.	Robinson-Walsen 1 & 2	Huerfano	D. A. Stout	Pueblo	W. S. Getchell	Walsen	D. & R. G. W., C. & S.	Laramie Formation	5 to 6	
Colorado Fuel & Iron Co.	Huerfano	Huerfano	D. A. Stout	Pueblo	S. S. Temple	Walsen	C. & S.	Laramie Formation	4 to 6	
Colorado Fuel & Iron Co.	Lester	Huerfano	D. A. Stout	Pueblo	A. Samples	Lester	D. & R. G. W.	Laramie-Walsen	6	
Colorado Fuel & Iron Co.	Ideal	Huerfano	D. A. Stout	Pueblo	M. M. Watson	Ideal	C. & S.	Laramie	3	6
Colorado Fuel & Iron Co.	Pictou	Huerfano	D. A. Stout	Pueblo	W. S. Getchell	Tioga	D. & R. G. W.	Laramie Formation	4 to 12	
Colorado Fuel & Iron Co.	Kobler No. 2	Huerfano	D. A. Stout	Pueblo	E. O. Willison	Tioga	D. & R. G. W.	Laramie Formation	6	
Calumet Fuel Co.	Calumet No. 1	Huerfano	F. N. Cameron	Salt Lake City, Utah	Robert Turner	Delcarbon	D. & R. G. W.	Walsen	3 1/2 to 6	
Alamo Coal Co.	Alamo	Huerfano	J. M. Charles	Salt Lake City, Utah	James Hamilton	Alamo	D. & R. G. W.	Walsen	3 1/2 to 6	
Oakdale Coal Co.	Oakdale	Huerfano	J. M. Charles	Oakview	James Hamilton	Oakview	D. & R. G. W.	Lower Vermejo	6 to 12	
Mutual Coal Co.	Mutual	Huerfano	S. S. Murphy	Denver	Thomas Johns	Walsenburg	D. & R. G. W.	Walsen	6 to 7	
Chalfente Coal Co.	Chalfente	Huerfano	S. M. Thompson	Walsenburg	S. M. Thompson	Walsenburg	D. & R. G. W.	Walsen	2 1/2 to 7	8
Axco Coal Mining Co.	Toltec	Huerfano	George Fruth	Denver	S. H. Smith	Toltec	D. & R. G. W.	Walsen	3 to 5	
Sunnyvale Coal M. Co.	Sunnyvale	Huerfano	J. P. McDermott	Denver	R. F. Bell	Strong	D. & R. G. W., C. & S.	Walsen	6 1/2 to 7	
Union Coal & Coke Co.	Pryor	Huerfano	W. B. Bowen	Denver	W. B. Bowen	Pryor	D. & R. G. W.	Canon-Walsen-Robinson	3 1/2 to 4	
Gordon Coal Co.	Gordon	Huerfano	Joe H. Dick	Walsenburg	H. P. Poll	Gordon	D. & R. G. W.	Canon	4	
Vesta Mines, Inc.	Vesta	Huerfano	R. H. Mitchell	Denver	H. L. Wilson	Gordon	D. & R. G. W.	Canon	3	6
Durley Coal Co.	Hellance	Huerfano	John M. McGovern	Pueblo	P. G. Cantor	Ojo	D. & R. G. W.	Mammoth	1 to 10	
Black Canon Coal & Fuel Co.	Caddell	Huerfano	E. B. Wilson	Denver	D. M. Russell	Walsenburg	D. & R. G. W.	Canon-Robinson	2 1/2 to 3	
Torrid Coal Co.	Torrid	Huerfano	Geo. Fruth	Denver	Andy Pickens	Rugby	C. & S.	Robinson	2	6
Fruth & Stone	Leader No. 1	Huerfano	Geo. Fruth	Denver	Archie Topping	Rouse	None	Upper Rugby	3	6
Fruth & Stone	Leader No. 2	Huerfano	Geo. Fruth	Denver	T. J. Stone	Rouse	None	Lower Rugby	4	10
Caddell & Son	Hezon	Huerfano		Pryor	R. M. Caddell	Pryor	D. & R. G. W.	Robinson	4	
Steve Mattivi & Sons	Bunker Hill	Huerfano	Steve Mattivi	Rapson	Steve Mattivi	Rapson	None	Canon	3	3
No Ash Coal Co.	No Ash	Huerfano		Rouse	T. McPhall	Rouse	None	Lower Rugby	4	6
Thos. Brown Coal Co.	Round Oak	Huerfano		Walsenburg	Thos. Brown	Walsenburg	None	Robinson	4	
Black Hills Coal Co.	Cuchara Canon	Huerfano		Lester	E. B. Caddell	Lester	None	Canon	3	6
North Park Coal Co.	Moore No. 1	Jackson	H. W. Moore, Jr.	Coalmont	Peter Fern	Tioga	None	Robinson	4	
O. B. Dho	Walden	Jefferson		Walden	O. B. Dho	Walden	L. N. P. & W.		35	
Leyden Coal Co.	Leyden No. 3	Jefferson	G. F. Bartlett	Denver	John Nels	Leyden, via Golden	D. & R. G. W.	Leyden B.	3	
Christensen Coal Co.	Christensen	Jefferson	Victor Christensen	Liftleton	Thomas Barclay	Liftleton	None		10	
Glendale Mining Co.	Glendale	Jefferson		Morland	V. Prochman	Morland	C. & S.		5	6
Calumet Fuel Co.	Perlas Peak	La Plata	F. N. Cameron	Salt Lake City, Utah	William Watson	Perlas	D. & R. G. W.	Mesa Verde Formation	4	
American Smelting & Ref. Co.	San Juan	La Plata	H. P. McElvanny	Denver	R. E. H. Perry	Durango	H. C. S.	Mesa Verde Formation	3	6
Sun Lignite Coal Co.	Sun Lignite	La Plata		Durango	Thos. G. Pierre	Durango	None	Mesa Verde Formation	6	
Durango Coal Co.	New Porter (Franklin)	La Plata		Durango	Joe Murphy	Durango	H. C. S.		6	
Ravenna & Co.	Morning Star	La Plata	John Ravenna	Durango	Anton Ravenna	Durango	None	Mesa Verde Formation	5	6
O. K. Coal Co.	O. K.	La Plata	James Jakino	Durango	James Jakino	Durango	None		6	4
Triangle Coal Co.	Triangle (Graves)	La Plata	H. M. Graves	Durango	H. M. Graves	Durango	None		5	
Champion Coal M. Co.	Champion	La Plata	W. C. Ferguson	Denver	Leo McCordick	Durango	None	Mesa Verde Formation	5	6
Pine River Coal Co.	Pine River	La Plata	Herman Schultz	Bayfield	J. H. Haldeinan	Bayfield	None	Mesa Verde Formation	5 to	

American Smelting & Ref. Co.	San Juan	La Plata	R. F. McIlvenny	Denver	R. E. Ramsey	Durango	H. G. S.	Mesa Verde Formation	3	6
Sunshine Coal Co.	Sunshine	La Plata	John Haudino	Durango	Thos. H. Pierce	Durango	H. H. S.	Mesa Verde Formation	5	6
Durango Coal Co.	New Porter (Durango)	La Plata	James Jakino	Durango	Amion Haudino	Durango	None	Mesa Verde Formation	5	6
Haudino & Co.	Morning Star	La Plata	James Jakino	Durango	James Jakino	Durango	None		5	4
O. K. Coal Co.	O. K.	La Plata	H. M. Graves	Durango	None	Durango	None		5	
Triangle Coal Co.	Triangle (Graves)	La Plata	W. C. Ferguson	Denver	Leo McFormick	Durango	None	Mesa Verde Formation	5	8
Thompson Coal M. Co.	Champion	La Plata	Herman Schultz	Hayfield	J. H. Haldeman	Hayfield	None	Mesa Verde Formation	5 to 8	6
Pine River Coal Co.	Pine River	La Plata	None	Hesperus	Frank Tipotack	Hesperus	None	Mesa Verde Formation	5	6
Frank Tipotack	Tipotack	La Plata	None	Maneros	Karl Hauert	Maneros	None		5	6
Karl Hauert	Valley View	La Plata	None				None		5	6
R. V. Gabbery	O & G (Peacock)	La Plata	Hesperus	Hesperus	R. V. Gabbery	Hesperus	None		6	
Black Diamond Coal Co.	Black Diamond	La Plata	Frank Foley	Durango	James Douds	Durango	None	Mesa Verde Formation	6	10
Minnie Coal Co.	Minnie	La Plata	None	Hayfield	Domilek Aspromonte	Hayfield	None	Mesa Verde Formation	12	
Joseph Montague	Heaver Creek	La Plata	None	Durango	Joseph Montague	Durango	None		3	
Thomas Petty	Little Porter	La Plata	None		Thomas Petty	Durango	None			
Colorado Fuel & Iron Co.	Morley	Las Animas	D. A. Stout	Pueblo	Chas. Chambers	Merley	A. T. & S. F.	Laramie Formation	5 to 10	6
Colorado Fuel & Iron Co.	Frederick	Las Animas	D. A. Stout	Pueblo	A. M. Riddle	Valdez	C & S	Laramie Formation	5	6
Colorado Fuel & Iron Co.	Berwind	Las Animas	D. A. Stout	Pueblo	C. A. Kalber	Berwind	C & S	Berwind	5	6
Colorado Fuel & Iron Co.	Toller	Las Animas	D. A. Stout	Pueblo	C. A. Kalber	Berwind	C & S	Berwind	5	6
Colorado Fuel & Iron Co.	Tahara	Las Animas	D. A. Stout	Pueblo	C. A. Kalber	Berwind	C & S	Hastings	5	6
Colorado Fuel & Iron Co.	Sopris	Las Animas	D. A. Stout	Pueblo	J. Doldoso	Sopris	C & S, D & R, G, W	Laramie Formation	3	6
Colorado Fuel & Iron Co.	Primero	Las Animas	D. A. Stout	Pueblo	E. T. Baker	Primero	C & S	Laramie Formation	5	6
Victor-American Fuel Co.	Delagua	Las Animas	R. W. Snodgrass	Denver	Jas. Struflers	Delagua	C & S, E	Raton Formation	5	6
Royal Fuel Co.	Royal	Las Animas	Samuel Tescher	Denver	H. Bickerton	Agullar	C & S, D & R, G, W	Laramie Walsen	5	6
National Fuel Co.	Thor	Las Animas	Samuel Tescher	Denver	Eph. Wagstaff	Howen	C & S, D & R, G, W	Laramie Cretaceous	5	6
American Smelting & Ref. Co.	Boncarbo	Las Animas	H. H. Hubb	Cokedale	C. R. Garrett	Cokedale	D. & R. G. W.	Boncarbo	5	6
Temple Fuel Co.	Broadhead No. 2	Las Animas	F. B. Wood	Trinidad	C. R. Cook	Broadhead	C & S, D & R, G, W	Broadhead	5	6
Empire Coal Co.	Empire	Las Animas	J. W. Siple	Denver	Findly McCallum	Agullar	C & S	Peerless	5	6
Bear Canon Coal Co.	Bear Canon No. 3	Las Animas	Chas. Beauchal, Sr.	Trinidad	James McKeown	Valloroso	C & S, D & R, G, W	Upper Coal Bed	5	6
Bear Canon Coal Co.	Bear Canon No. 6	Las Animas	Chas. Beauchal, Sr.	Trinidad	James McKeown	Valloroso	C & S, D & R, G, W	Middle Coal Bed	5	6
Duch Coal Co.	Dix	Las Animas	Jas. B. Dick	Walsenburg	F. G. Miller	Boncarbo	D. & R. G. W.	Cass	4	6
Huerfano Coal Co.	Ludlow	Las Animas	S. S. Murphy	Denver	Frank McDermott	Ludlow	C & S	Hastings-Berwind	4 to 6	6
Jewel Collieries Corp.	Jewel	Las Animas	Geo. B. Dick	Walsenburg	W. A. Merritt	Agullar	C & S		3	6
Jewel Collieries Corp.	Jewel	Las Animas	Geo. B. Dick	Walsenburg	W. A. Merritt	Agullar	C & S		3	6
Prairie Canon Coal Co.	Prairie Canon	Las Animas	A. E. Woodward	Trinidad	A. E. Woodward	Valloroso	C & S	Upper Series	3	6
Rocky Mountain Fuel Co.	Forbes No. 2	Las Animas	Geo. T. Pearl	Denver	Geo. Fortune	Forbes	C & S	Middle Forbes	4	6
Rocky Mountain Fuel Co.	Southwestern	Las Animas	Geo. T. Pearl	Denver	W. L. Morgan	Agullar	C & S	Lower Robinson	4	6
Stanley Mine Co.	Stanley	Las Animas	C. O. Stanley	Trinidad	William Cox	Boncarbo	D. & R. G. W.	Primero	4	6
Vickers Coal Co.	Vickers	Las Animas	E. R. Wood	Trinidad	O. W. Cook	Agullar	D. & R. G. W., C & S	Robinson	3 to 4	6
Rapson Coal M. Co.	Rapson	Las Animas	W. W. Curtis	Colorado Springs	R. C. Curtis	Rapson	D. & R. G. W., C & S	Robinson	3 to 4	6
Three Pines Coal Co.	Three Pines	Las Animas	Earl Cobb	Fort Smith, Ark.	Thos. Foster	Valloroso	C & S	Upper Series	3	10
Cedar Hill Coal & Coke Co.	Greenville	Las Animas	D. M. Harrington	Denver	Joe Mitchell	Ludlow	C & S	Berwind	4	6
Jeffries Fuel Co.	Jeffries	Las Animas	A. G. Jeffries	Trinidad	A. G. Jeffries	Trinidad	None	Trinidad	4 to 6	6
Wellington Mining Co.	Wellington	Las Animas	R. W. Caddell	Pryor	E. R. Caddell	Pryor	None	Cameron	3	6
Santa Fe Coal Co.	Santa Fe	Las Animas	F. A. Williams	Denver	Geo. Gully	Trinidad	A. T. & S. F.	Coal Beds No. 4 and 6	3 to 7	6
T. P. Davis, Leaser	Engle	Las Animas	D. A. Stout	Pueblo	T. P. Davis, Leaser	Trinidad	D. & R. G. W.	Laramie Formation	6	6
Trinidad Coal Co.	Indy M	Las Animas	None	Trinidad	Geo. H. Hinch	Trinidad	None	Trinidad	9	6
Wm. Irons, Jr.	Indy M	Las Animas	None	Trinidad	Wm. Irons, Jr.	Trinidad	None		9	6
Hawley Fuel & Supply Co.	Hanner	Las Animas	M. C. Broyles	Trinidad	M. C. Broyles	Trinidad	None	Trinidad No. 2	3	6
Halbert Coal Co.	Joerger	Las Animas	None	Trinidad	Robert Halbert	Trinidad	None		3	6
Wilton Coal Co.	Pritchard	Las Animas	None	Trinidad	I. H. Wilton	Trinidad	None		3	6
Pine Fuel Co.	Pawcett	Las Animas	None	Trinidad	H. Pawcett	Agullar	None	Lower Series	3	6
Boaglio Coal Co.	Pickford	Las Animas	None	Trinidad	Bert Boaglio	Trinidad	None		3	6
Shew Coal Co.	Shew	Las Animas	None	Trinidad	Mine closed	Trinidad	None		3	6
Shew Coal Co.	Fairview	Las Animas	None	Trinidad	P. J. Shew	Trinidad	None		3	6
Standard Fuel Co.	Standard	Las Animas	None	Trinidad	Mine closed	Trinidad	None		3	6
Andy Collier	Congo	Las Animas	None	Trinidad	Andy Collier	Agullar	None		3	6
Canby Hawkins	Morris	Las Animas	None	Trinidad	Canby Hawkins	Trinidad	None		3	6
Dennis & Malone	Verdon	Las Animas	None	Trinidad	Jas. Malone	Trinidad	None		3	6
Grand Junction M. & F. Co.	Cameo	Mesa	D. M. McNeil	Denver	C. C. Wachob	Cameo	D. & R. G. W.		9	6
Pallsade Coal & Supply Co.	Pallsade	Mesa	H. G. Koch	Aspen	D. T. Lloyd	Pallsade	D. & R. G. W.		4	6
Midwest Coal Co.	Midwest	Mesa	J. S. Cheyney	Pallsade	N. Richards	Pallsade	D. & R. G. W.	Midwest	3 1/2 to 4	6
H. Gearhart	Garfield	Mesa	None	Pallsade	B. Gearhart	Pallsade	None	Book Cliff	5	6
W. H. Stokes	Stokes	Mesa	None	Pallsade	W. D. Stokes	Pallsade	None		5	6
New Grand Mesa Coal Co.	Winger	Mesa	C. C. Hicks	Pallsade	C. C. Hicks	Pallsade	None		5	6
Riverside Coal Co.	Riverside	Mesa	John McDowell	Pallsade	John McDowell	Pallsade	None	Pallsade	2	8
O. K. McLondon	Slove Canyon	Mesa	None	Frulla	O. K. McLondon	Frulla	None		4	6
Hidden Treasure Mining Co.	Hidden Treasure	Mesa	Geo. H. Garlitz	Grand Junction	Geo. H. Garlitz	Grand Junction	None	Mesa Verde Formation	4	6
Anchor Coal Co.	Anchor No. 3	Mesa	D. W. Lynch	Salt Lake City, Utah	W. S. Morrow	Frulla	None		6 to 7	6
Farmer-Mutual Coal Co.	Farmer-Mutual No. 1	Mesa	Felix Palmetto	Grand Junction	Felix Palmetto	Grand Junction	None	Book Cliff	3 to 4	6
Liberty Coal & Merc. Co.	Nearling	Mesa	A. J. Dittlinger	Frulla	L. H. Edwards	Frulla	None		5	6
Wm. McGintley	McGintley	Mesa	None	Grand Junction	W. S. Traynor	Grand Junction	None		5	6
Thomas Coal Co.	Thomas	Mesa	C. F. Thomas, Jr.	Grand Junction	C. F. Thomas, Jr.	Grand Junction	None	Pallsade	5	8
Service Coal Co.	Service	Mesa	H. J. Allen	Grand Junction	H. J. Allen	Grand Junction	None	Pallsade	5	8
Williams Coal Co.	Williams	Mesa	H. T. Williams	Grand Junction	H. T. Williams	Grand Junction	None	Pallsade	5	6
Crescent Coal Co.	Crescent	Mesa	T. J. Welsh	Grand Junction	T. J. Welsh	Grand Junction	None	Book Cliff	6	6
J. B. Hunter	Hunter	Mesa	None	Frulla	J. B. Hunter	Frulla	None	Mesa Verde Formation	6	6
Andy Nyland	Midway	Mesa	None	Grand Junction	Andy Nyland	Grand Junction	None		6	6
M. Evans Fuel Co.	Evans	Moffat	D. E. Evans	Craig	A. A. Evans	Craig	None	Pinnacle	4	6
Hart Coal Co.	Hart	Moffat	No report filed				None			
Langley & Wolf	Baker	Moffat	None	Craig	Mine closed	Craig	None		10	6
Knez Coal Co.	Knez	Moffat	Joe Knez	Craig	Joe Knez	Craig	None		6	6
Wiscassin Coal M. Co.	Wallihan	Moffat	A. G. Wallihan	Lay	A. G. Wallihan	Lay	None	Mesa Verde Formation	10	6
It's Coal Co.	Cotton	Moffat	Leo H. Pattison	Axial	A. W. Kendall	Axial	None	Mesa Verde Formation	25	6
C. H. Richards	Little Bear	Moffat	C. H. Richards	Craig	C. H. Richards	Craig	None		18	6
Whitlock Coal Co.	Whitlock	Moffat	None	Hamilton	E. E. Whitlock	Hamilton	None		6	10
Brant Coal Co.	Brant	Moffat	None	Craig	Leater J. Brant	Craig	None		6	6
C. L. Kerns	Wise	Moffat	None	Craig	Mine closed	Craig	None		6	6
Freeman & Fielding	School Sec. Lease	Montezuma	Roy Freeman	Maneros	Roy Freeman	Maneros	None	Mesa Verde-Monrofer	3	6
Cortez Coal Co.	Cortez	Montezuma	None	Cortez	F. E. Conway	Cortez	None	Mesa Verde Formation	3	3
Roy Freeman	Freeman	Montezuma	None	Maneros	Mine closed	Maneros	None	Mesa Verde Formation	3	6
Geo. S. Spencer	Spencer	Montezuma	None	Maneros	Mine closed	Maneros	None	Mesa Verde Formation	2	6
Reed & Aldred Coal Co.	Montezuma	Montezuma	None	Cortez	Edgar Reed	Cortez	None	Dakota Formation	2	4
Happy Canon Coal Co.	Happy Canon	Montrose	None	Montrose	Tom Phillips	Montrose	None		2	4
John H. Drott	Liberty Bell	Montrose	None	Nuclea	John H. Drott	Nuclea	None		2	4
W. J. Oberding	Oberding	Montrose	None	Nuclea	Mine closed	Nuclea	None		6	4
Chas. A. Rice & Son	Pleasant Valley	Montrose	None	Nuclea	Chas. A. Rice	Nuclea	None		4	6
Missouri	Missouri	Montrose	None	Nuclea	Nuclea Winkler	Nuclea	None		6	6
Naturita Stores Co.	Cloverdale	Montrose	John C. Blaine	Naturita	R. A. Hansen	Naturita	None		6	6
Burro Creek Coal M. Co.	Tyler	Ouray	G. H. Tyler	Colona	G. H. Tyler	Colona	None		30	6
P. E. Swayhart	Kennedy	Ouray	None	Ridgway	P. E. Swayhart	Ridgway	None		8	6
W. C. Pace	Miller	Ouray	None	Colona	W. C. Pace	Colona	None		22	6
J. R. Marchetti	Marlon	Pitkin	None	Carbondale	J. R. Marchetti	Carbondale	None	Placita	4	6
Rapin & Hughes	Placita	Pitkin	Wm. Hughes	Carbondale	Wm. Hughes	Carbondale	None		3	6
Meeker Coal Co.	Oldland	Rio Blanco	None	Meeker	J. F. Musgrove	Meeker	None			
Electric Coal Co.	Black Diamond	Rio Blanco	R. C. Graham	Meeker	R. C. Graham	Meeker	None		18	6
Smith & Long	Lion Canon	Rio Blanco	A. D. Smith	Meeker	A. D. Smith	Meeker	None		7	6
Thos. D. Foreman	Nine Mile	Rio Blanco	None	Meeker	Thomas D. Foreman	Meeker	None		34	6
Robert McKee	McKee	Rio Blanco	None	Meeker	Robert McKee	Meeker	None		7	6
Moffat Coal Co.	Oak Hills No. 1	Routt	R. M. Perry	Denver	F. G. Jarrell	Oak Creek	D. & S. L.	Pinnacle	10 to 12	6
Moffat Coal Co.	Oak Hills No. 2	Routt	R. M. Perry	Denver	F. G. Jarrell	Oak Creek	D. & S. L.	Pinnacle	10 to 12	6
Victor-American Fuel Co.	Pinnacle	Routt	B. W. Snodgrass	Denver	D. B. Davis	Wadgo	D. & S. L.	Wadgo	9 to 14	6
Victor-American Fuel Co.	Wadgo	Routt	B. W. Snodgrass	Denver	D. B. Davis	Wadgo	D. & S. L.	Wadgo	8	6
Colorado & Utah Coal Co.	Harris	Routt	H. A. Harris	Hayden	Harry Mallot	Hayden	D. & S. L.	Pinnacle	8	6
Hayden Bros. Coal Corp.	Hayden	Routt	C. W. Brown	Denver	John T. Sidle	Hayden	D. & S. L.	Pinnacle	7	6
Fraker Coal Co.	Rear River	Routt	Geo. E. Fraker	Denver	J. W. McCune	Rear River	D. & S. L.	Mesa Verde Formation	12	6
McNell Coal Co.	MacGregor	Routt	A. M. McNell	Denver	J. W. McNell	Mac Gregor	D. & S. L.	Wolf Creek	8	6
Yampa Collieries Co.	Yampa	Routt	Joe Simpson	Denver	Joe Simpson	Mac Gregor	D. & S. L.	Wadgo	8	4
Pinnacle-Kennamer Fuel Co.	Rear No. 1	Routt	H. C. Marchant	Hayden	Albert E. Oliver	Hayden	D. & S. L.	Wolf Creek	18	6
Babson Coal Co.	Babson	Routt	J. T. Mills	Hayden	J. T. Mills	Hayden	None	Mesa Verde Formation	7	6
Butcher Knife Coal Co.	Butcher Knife	Routt	H. R. Harris	Rear River	E. R. Harris	Rear River	None	Pinnacle	6	6
Seven Points Coal Co.	Seven Points	Routt	None	Oak Creek	E. Griffen	Oak Creek	None	Pinnacle	12	6
American Coal & Power Co.	Routt Pinnacle	Routt	Geo. Flannigan	Rear River	Geo. Flannigan	Rear River	D. & S. L.	Pinnacle	7	6
Amos Coal Co.	McCrosky	Routt	C. C. Amos	Mac Gregor	C. C. Amos	Mac Gregor	None	Pinnacle	5	6
A. C. Linn & Sons	Mutual or Dry Creek	Routt	David D. Linn	Hayden	David D. Linn	Hayden	None	Mesa Verde Formation	11	6
Arthur Hog Co.	Arthur	Routt	None	Oak Creek	John Arthur	Oak Creek	None		8	6
Ground Hog Coal Co.	Ground Hog	Routt	None	Miller	Joseph Mathews	Miller	None	Pinnacle	5 to 6	6
Hlock Coal Co.	Hlock	Routt	E. H. Zimmerman	Steamboat Springs	James Andrews	Steamboat Springs	D. & S. L.		5	2
Monger & Gray	Monger	Routt	None	Steamboat Springs	W. R. Gray	Steamboat Springs	None		6	6
Tom Chergo	Chergo	Routt	None	Oak Creek	Tom Chergo	Oak Creek	None		9	6
H. J. Royers	Royers	San Miguel	None	Norwood	S. J. Royers	Norwood	None		3	6
W. R. Keck	Keck	San Miguel	None	Norwood	W. R. Keck	Norwood	None		2 1/2 to 3	6
L. J. Gray	Gray	San Miguel	None	Norwood	L. J. Gray	Norwood	None		3	6
Rocky Mountain Fuel Co.	Columbine	Weld	Geo. T. Peart	Denver	F. L. Peart	Serene	C & S, Q	Lower Columbine	6 to 10	6
Rocky Mountain Fuel Co.	Grant	Weld	Geo. T. Peart	Denver	J. L. Thomas	Frederick	U. P.	Lower Grant	6 to 11	6
Rocky Mountain Fuel Co.	Frederick	Weld	Geo. T. Peart	Denver	Evan Jones	Frederick	U. P.	Lower Frederick	5 to 6	6
National Fuel Co.	Puritan	Weld	Samuel Tescher	Denver	Geo. Mathews	Dacono	U. P.	Laramie Cretaceous	10	6
Clayton Coal Co.	Clayton	Weld	Geo. Mathews	Denver	Wm. But	Erie	U. P.	Laramie Cretaceous	9	6
Boulder Valley Coal Co.	Boulder Valley	Weld	B. Nesbit	Denver	Wm. Andrew	Erie	U. P.		7 to 9	6
Consolidated Coal & Coke Co.	Baum	Weld	Carson W. Smith	Denver	A. W. Padfield	Dacono	U			

TABLE No. 3

VENTILATING EQUIPMENT OF COAL MINES IN STATE OF COLORADO FOR YEAR ENDING DECEMBER 31, 1925

Name of Operator	Name of Mine	Kind of Opening			Gaseous or Non-Gaseous	Number and Type of Safety Lamp Used		Method of Ventilation	Name of Fan	Diameter Feet	Revolutions per Minute	Kind of Power Used
		Shaft Depth	Slope	Drift Length		Flame	Electric					
			Length	Pitch Degree								
Ajax Coal M. Co.	Capitol	219			Gaseous	2		Fan	Buffalo	10	70	Steam
Alamo Coal Co.	Alamo		2500	17°	Gaseous	8	225	Fan	Vulcan	6	103	Electric
Altitude Coal Co.	Altitude	40	2000	5°	Non-Gaseous	1		Fan	Not Stated	10	60	Steam
American Coal & Power Co.	Houtt-Pinnacle		300	17°	Non-Gaseous	2		Fan	Not Stated	6	180	Electric
American Smelting & Ref. Co.	San Juan		3200	6°	Non-Gaseous	2	80	Fan	Not Stated	10	144	Electric
American Smelting & Ref. Co.	Honcarbo			1°	Gaseous	7	300	Fans (2)	Jeffrey-S.	1' 7"	410	Electric
Amos Coal Co.	McCroskey			1°	Non-Gaseous	1		Fan	Robinson-H. S.	2 1/2 x 5	343	Electric
Anchor Coal Co.	Anchor No. 2			12°	Non-Gaseous	1		Fan	Not Stated	3	330	Gasoline Engine
Arthur Coal Co.	Arthur		200	6°	Non-Gaseous	1		Purchase	Not Stated			Not Stated
Aztec Coal M. Co.	Toltec		3300	10%	Gaseous	6	130	Fan	Sirocco	4.5 x 3	260	Steam and Electric
Baldwin Coal Co.	Baldwin		300	10%	Non-Gaseous	1		Fan	Buffalo			
Baldwin Fuel Co.	Baldwin Star				Non-Gaseous	1		Natural		3		Gasoline Engine
Barker, Wright	Wright	Strip	1st									None
Baudino & Co.	Morning-Star	300			Non-Gaseous	1		Fan	Not Stated			Gasoline Engine
Bear Canon Coal Co.	Bear Canon No. 3				Gaseous	1		Fan	Jeffrey	4 1/2	175	Electric
Bear Canon Coal Co.	Bear Canon No. 6				Gaseous	2	125	Fan	Jeffrey	6	440	Electric
Beil Mining Co.	Bureka	100			Non-Gaseous	1		Fan	Cole	4	665	Electric
Bennett Coal Co.	Bennett				Non-Gaseous	1		Natural		3 x 8	80	Steam
Big Four Coal & Loke Co.	Centennial	265			Gaseous	6		Fan	Crawford & McCrimmon	12	120	Steam and Electric
Black Canon Coal & Fuel Co.	Caddell		{ 1600 } { 3000 }		Gaseous	2	50	Fan	Not Stated	10	112	Electric
Black Diamond Coal Co.	Black Diamond		800	5°	Non-Gaseous	1		Fan	Home-made	4 1/2	260	Gasoline Engine
Black Hawk Coal Co.	Mohawk		200	10°	Gaseous	1	16	Fan	National	4	160	Electric
Black Hills Coal Co.	Black Hills		200		Non-Gaseous	1		Fan	Under Construction	10	125	Electric
Black Coal Co.	Black	Not	Stated		Non-Gaseous	1		Fan	Not Stated			Gasoline Engine
Bluff Springs Coal Co.	Bluff Springs No. 2		400	24°	Non-Gaseous	1		Fan	Sirocco	3	900	Electric
Bonglo Coal Co.	Pickford	20			Non-Gaseous	1		Fan	Not Stated	2' 6"	250	Not Stated
Bonner Bros. Coal Co.	Bonner				Non-Gaseous	1		Natural				
Boulder Black Hawk Coal Co.	Boulder Black Hawk		120		Non-Gaseous	1		Natural				Gasoline Engine
Boulder Coal Mining Co.	Boulder		200		Non-Gaseous	1		Fan	Buffalo	3	350	Electric
Boulder Valley Coal Co.	Boulder Valley	317			Gaseous	2	200	Fan	Ajax	6	300	Steam and Electric
Bracken & Cozza	Harvey Gap	No.	Report	Filed								
Brant Coal Co.	Brant		240	6°	Non-Gaseous			Natural				Gasoline Engine
Brown, Thos. Coal Co.	Round Oak		300	3°	Non-Gaseous	1		Not Stated				
Burntall Fuel Co.	Burntall		242		Non-Gaseous	1		Fan	National	6	450	Gasoline Engine
Burro Creek Coal M. Co.	Tyler				Non-Gaseous	1		Natural				
Butcher Knife Coal Co.	Butcher Knife		300	5°	Non-Gaseous	1		Fan	Buffalo	3	300	Gasoline Engine
Caddell & Son	Hixon				Non-Gaseous	1		Fan	Not Stated	12	60	Electric
Caliente Coal Co.	Ravenwood		5000	3 1/2°	Gaseous	5	160	Fans (2)	Stine	5	690	Electric
Caliente Coal Co.	Maitland				Gaseous	3	64	Fan	Stine	5 1/2	266	Electric
Calumet Fuel Co.	Somerset		3500	6°	Gaseous	3	175	Fan	Jeffrey	18 x 5	377	Steam and Electric
Calumet Fuel Co.	Calumet No. 1		5000	10%	Gaseous	5	221	Fan	Jeffrey	4 x 8	190	Electric
Calumet Fuel Co.	Calumet No. 2		2200	3°	Gaseous	4	210	Fan	Unknown	12	83	Electric
Calumet Fuel Co.	Perkins Peak		4600	10°	Non-Gaseous	1		Natural				Not Stated
Cambro Mining Co.	Cambro		300	16°	Non-Gaseous	1		Fan	Not Stated	10	150	Steam
Canon Coal Ass'n.	Brewster		1200	9°	Gaseous	1		Fan	Sturtevant	5		Electric
Canon District Coal Co.	Florence Canon		750	10°	Non-Gaseous	1		Fan	Buffalo	4	250	Electric
Canon Quality Coal Co.	South Magnet		350	25°	Gaseous	2		Fan	American	3' 4"	1200	Steam
Canon-Relliance Coal Co.	Canon	1054			Non-Gaseous	2		Fan	Jeffrey	6	300	Electric
Canon-United Coal Co.	Jack O' Lantern				Non-Gaseous	1		Fan	Buffalo	3	400	Gasoline Engine
Carbon Creek Coal Co.	Carbon Creek		180		Non-Gaseous	1		Natural				
Cedar Hill Coal & Coke Co.	Greenville		500		Non-Gaseous	1		Fan	Not Stated	4' 6"	135	Electric
Champion Coal M. Co.	Champion			2°	Gaseous	1	10	Fan	Home-made	5	340	Gasoline Engine
Chargo, Tom	Chargo		150	14°	Non-Gaseous	1		Fan	Robinson	3		Gasoline Engine
Christensen Coal Co.	Christensen		500		Non-Gaseous	1		Fan	Sturtevant	5 x 3	500	Gasoline Engine
Clayton Coal Co.	Clayton	325			Gaseous	1		Fan	Jeffrey	12	90	Steam
Collier, Andy.	Congo		700	2 1/2°	Non-Gaseous			Not Stated				
Colorado Dev. & Leasing Co.	Evans	155		1°	Non-Gaseous	1		Fan	Jeffrey	8	500	Electric
Colorado Fuel & Iron Co.	Coal Creek	400			Gaseous	249	199	Fan	C. F. & I.	12	155	Electric
Colorado Fuel & Iron Co.	Rockvale	300			Gaseous	173	291	Fan	C. F. & I.	10	200	Electric
Colorado Fuel & Iron Co.	Freemont	402		7°	Non-Gaseous	6		Fan	Gulbal	21	72	Steam and Electric
Colorado Fuel & Iron Co.	Nonac		4000	6°	Non-Gaseous	1		Fan	C. F. & I.	10	80	Steam
Colorado Fuel & Iron Co.	Bimerald		2500	7°	Non-Gaseous	2		Fan	Sturtevant	3 x 8	160	Electric
Colorado Fuel & Iron Co.	Crested Butte		6000	8°	Gaseous	5	98	Fan	Capelle	12	120	Steam
Colorado Fuel & Iron Co.	Elk Mountain		2240	7°	Gaseous	2		Fan	Jeffrey	6	150	Steam
Colorado Fuel & Iron Co.	*Robinson No. 1		7000		Gaseous	4	200	Fan	Capelle	13 x 9	170	Electric
Colorado Fuel & Iron Co.	*Robinson No. 2		5500		Gaseous	6	217	Fan	Capelle	13 x 9	170	Steam and Electric
Colorado Fuel & Iron Co.	*Old Walsen		4500		Gaseous	2	30	Fan	Capelle	13 x 9	170	Steam and Electric
Colorado Fuel & Iron Co.	Cameron		8000	6°	Gaseous	6	200	Fan	Jeffrey	6	392	Electric
Colorado Fuel & Iron Co.	Leister		6400	5°	Gaseous	6	236	Fan	Jeffrey	6	459	Electric
Colorado Fuel & Iron Co.	Ideal		2900	8°	Gaseous	5	200	Fan	C. F. & I.	10	124	Electric
Colorado Fuel & Iron Co.	Pietou		5000	10%	Gaseous	3	170	Fan	Sirocco	7	270	Steam and Electric
Colorado Fuel & Iron Co.	Kehler No. 2		3500	30%	Non-Gaseous	4		Fan	Cole	13	130	Electric
Colorado Fuel & Iron Co.	Morley		5800	20%	Gaseous	7	404	Fans (3)	{ 2 Sirocco and 1 C. F. & I.	4 x 6 2' 8" x 8 6 x 20	490 350 58	Steam and Electric
Colorado Fuel & Iron Co.	Frederick		13000		Gaseous	20	368	Fan	Capelle	9 x 11	207	Steam and Electric
Colorado Fuel & Iron Co.	Berwind		14000		Gaseous	8	182	Fan	C. F. & I.	6 x 12	180	Steam and Electric
Colorado Fuel & Iron Co.	Toller	352		3°	Gaseous	4	178	Fan	Jeffrey	5	520	Steam and Electric
Colorado Fuel & Iron Co.	Tabasco		5300	6 1/2°	Gaseous	9	179	Fan	C. F. & I.	6 x 12	231	Steam and Electric
Colorado Fuel & Iron Co.	Sopris		7920 5500		Gaseous	12	250	Fans (2)	C. F. & I.	6 x 12	217 140	Steam and Electric
Colorado Fuel & Iron Co.	Primero		7400 7650		Gaseous	8	135	Fans (2)	C. F. & I.	6 x 12	170 460	Steam
Colorado Springs Co.	City Coal Mines		2100		Non-Gaseous	1		Fan	Unknown	12	70	Electric
Colorado & Utah Coal Co.	Harris		4000	9°	Non-Gaseous	2		Fan	Ottumwa		120	Steam and Electric
Consolidated Coal & Coke Co.	Baum	260			Non-Gaseous	3		Fan	Crawford & McCrimmon	16	75	Steam
Converse, Frank	Converse			2°	Non-Gaseous			Fan	National			None
Corley, W. D.	Corley	412			Non-Gaseous	1		Fan	Not Stated	7	100	Electric
Corley, W. D.	Franceville		210	25°	Non-Gaseous	1		Natural				
Cortez Coal Co.	Cortez				Non-Gaseous	1		Fan	American	4	120	Gasoline Engine
Cottonwood Coal Co.	Cottonwood		100	22°	Non-Gaseous			Natural				
Cowan Coal Co.	Bluff Springs No. 1		900	15°	Non-Gaseous	1		Not Stated				
Cox Coal Co.	Cox		50	12°	Non-Gaseous	1		Fan	Buffalo		580	Whim
Cracker Jack Coal Co.	Cracker Jack		300	20°	Non-Gaseous	1		Fan to be h.				Electric
Crane & Robinson	Crane				Non-Gaseous	1		Natural				
Crescent Coal Co.	Crescent		1250		Non-Gaseous	1		Natural				
Crested Butte Anthracite M. Co.	Smith Anthracite		300		Non-Gaseous	1		Fan	Waddle	16	48	None
Crested Butte Coal Co.	Bulkeley No. 2		2000		Non-Gaseous	1		Fan	National	6	50	Electric
Crown Fuel Co.	Crown	270		1/2-1°	Non-Gaseous	1		Fan	Washington	10	110	Steam and Electric
Cunningham & Elliott	Cunningham		125	21°	Non-Gaseous	1		Natural				Not Stated
Danville Coal Co.	Danville	80			Non-Gaseous	1		Fan	Not Stated	10	60	Steam
Davies Coal Co.	Lewis		700		Non-Gaseous	1		Natural				
Davis, T. P.	Boyle		6000		Non-Gaseous	1		Natural	Stine	7	220	Electric
De Graffenried, J. H.	De Graffenried		350		Non-Gaseous			Natural				
Dennis & Malone	Verdon		280	6°	Non-Gaseous			Natural				
Dick Coal Co.	Dix		2400		Non-Gaseous	4		Fan	Stine	5		Electric
Domenico & Sons	Champlon (Paramount)	235			Non-Gaseous	1		Fan	Sirocco	6	320	Steam and Electric
Double Dick Coal Co.	Double Dick		1400	1°	Non-Gaseous	1		Fan	Stine	3	700	Electric
Drehan Coal Co.	Drehan	50			Non-Gaseous			Natural				
Drott, John H.	Liberty Bell		400		Non-Gaseous	1		Fan	Being Installed			Gasoline Engine
Durango Coal Co.	New Porter (Durango)	Not	Stated		Non-Gaseous	1		Fan	Home-made	4' 8"	210	Gasoline Engine
Electric Coal Co.	Black Diamond		200		Non-Gaseous	1		Fan	Home-made	4	400	Gasoline Engine
Empire Coal M. Co.	Empire		6000	8°	Gaseous	4	130	Fan	Jeffrey	5	400	Gasoline and Electric
Eno Coal Co.	Matt		300	25°	Non-Gaseous	not	stat	Natural				Not Stated
Eyles, James E.	Eyles		800		Gaseous	1	6	Fan	Not Stated	3		Gasoline Engine
Farmer-Mutual Coal Co.	Farmer-Mutual		300	28°	Non-Gaseous	1		Fan	Disc	4	180	None
Fitzsimmons, E. A.	Berry		400		Non-Gaseous	1		Natural				
Foreman, Thos. D.	Nine Mile		400	18°	Non-Gaseous	1		Natural				
Fraker Coal Co.	Bear River		1500	16°	Non-Gaseous	2		Fan	Ajax	10	110	Steam
Franklin Coal Co.	Witherbee	215			Non-Gaseous	1		Fan	Blower			Steam
Freeman, R.	Freeman		600	2°	Non-Gaseous			Natural				
Freeman & Fielding	School Section Lease		600		Non-Gaseous			Fan				
Fruth & Stone	Leader No. 1		800	6°	Non-Gaseous	1		Fan	Jeffrey	3' 8"	600	Gasoline Engine
Fruth & Stone	Leader No. 2		500	6°	Non-Gaseous	1		Fan	American	3' 4"	280	Gasoline Engine
Gadberry, H. V.	Peacock (G & G)	Not	Stated		Non-Gaseous	1		Fan	Disc	4	400	Not Stated
Garhart, B.	Garfield		2000	15°	Non-Gaseous	1		Fan	Jeffrey	6	170	Gasoline Engine
Gilson Asphaltum Co.	Carbonera		2300 2550		Non-Gaseous	2		Fan				
Glendale Mining Co.	Glendale (Sharon)	210		7°	Gaseous	1		Fan	Buffalo	3	600	Electric
Golden Dawn Coal Co.	Golden Dawn		180	30°	Non-Gaseous	1		Fan	Allington-Curtis	3' 4"	800	Steam
Gordon Coal Co.	Gordon		4000	1 1/2°	Gaseous	3	100	Fan	Vulcan	6	210	Electric
Grand Junction Mining & F. Co.	Campe											

Blacker Coal Co	Midwest	Not	Stated	3%	2000	Non-Gaseous	2	45	Fan	Not Stated	4 1/2	600	Electric
Midwest Coal Co	Midwest	Not	Stated	3%	2000	Non-Gaseous	2	45	Fan	Not Stated	4 1/2	600	Electric
Morgan, Mike	Kurtzville	Not	Stated		700	Non-Gaseous	1		Natural	Not Stated			Not Stated
Minnie Coal Co	Minnie		700		7000	Non-Gaseous	6	175	Fan	Not Stated	6	140	Electric
Moffat Coal Co	Oak Hills No 1		900	12%	8500	Non-Gaseous	6	175	Fan	Not Stated	10	120	Electric
Moffat Coal Co	Oak Hills No 2				500	Non-Gaseous			Not Stated				Electric
Monger & Gray	Monger												
Montague, Jos ph	Beaver Creek	No	Report	Filed		Non-Gaseous	1		Fan	Not Stated			Gasoline Engine
Mt Evans Fuel Co	Mt Evans		300	4%		Gaseous	2	125	Fan	Not Stated	4	200	Steam
Mutual Coal Co	Mutual		172			Non-Gaseous	1		Natural	Not Stated	16	99	Gasoline Engine
McCurdy Coal Co	Bush		72			Non-Gaseous	1		Fan	Not Stated	4		Gasoline Engine
McGinty, Wm	McGinty		570	4%	570	Non-Gaseous	1		Fan	Not Stated	4		Gasoline Engine
McKee, Robert	McKee	Not	Stated			Non-Gaseous	1		Fan	Not Stated	4	250	Gasoline Engine
McLendon, O K	Stove Canyon		500			Non-Gaseous	1		Natural	Not Stated	15	70	Electric
McMillin Bros	Rollins		4300	14%	320	Non-Gaseous	2		Fan	Not Stated	16	90	Steam
McNell Coal Co	MacGregor		283	8%		Non-Gaseous	12		Fan	Not Stated	16		Electric
National Fuel Co	Monarch No 2					Non-Gaseous				Not Stated	16	71	Electric
National Fuel Co	Thor		1000	4%		Non-Gaseous	2		Fans (3)	Not Stated	10	174	Steam and Electric
National Fuel Co	Puritan		110			Non-Gaseous	4		Fans (3)	Not Stated	18	235	Gasoline Engine
Natural Stores Co	Cloverdale	Not	Stated			Non-Gaseous	4	400	Fan	Not Stated	4	400	Electric
New Grand Mesa Coal Co	Winger		700			Non-Gaseous	1		Natural	Not Stated	3	400	Electric
No Ash Coal Co	No Ash		750	7%		Non-Gaseous	1		Natural	Not Stated	3	400	Electric
North Magnet Coal Co	North Magnet		97		269	Non-Gaseous	1		Fan	Not Stated	3	200	Electric
North Park Coal Co	Moore No 1		88		2000	Non-Gaseous	2		Fan	Not Stated	3	200	Steam
Nytand, Andy	Midway				647	Non-Gaseous			Fan	Not Stated	3	750	Gasoline Engine
Oakdale Coal Co	Oakdale		3000	7%	3500	Gaseous	4	100	Fans (2)	Not Stated	6	160	Electric
Oberding, W J	Oberding				200	Non-Gaseous			Natural	Not Stated	9	110	Electric
Ohio Creek Coal Co	Ohio Creek				2000	Non-Gaseous	1		Fan	Not Stated	5	125	Steam
Ohkrant Mining Co	Ohkrant				175	Non-Gaseous	1		Natural	Not Stated	4	350	Gasoline Engine
O K Coal Co	O K				1000	Non-Gaseous	1		Fan	Not Stated	4	440	Electric
Oliver Fuel & Coal Products Co	Oliver		300	5%	300	Gaseous	1	20	Fan	Not Stated	4		Electric
Owens, Rowland & Sons	Owens				337	Non-Gaseous			Natural	Not Stated			
Pace, W C	Miller		500			Non-Gaseous			Natural	Not Stated			
Pallsale Coal & Supply Co	Pallsale		1700			Non-Gaseous	1		Fan	Not Stated	4	225	Electric
Paonia-Farmers Coal Co	Paonia		550	2%		Non-Gaseous			Fan	Not Stated	4	300	Gasoline Engine
Petty, Sam	Willie		450	3%		Non-Gaseous	1		Fan	Not Stated	3	210	Electric
Petty, Thos M	Little Porter				200	Non-Gaseous			Natural	Not Stated			
Pikes Peak Fuel Co	Pikeview		174			Non-Gaseous	1		Fan	Not Stated	5x 8	200	Electric
Pine Fuel Co	Pawcett				650	Non-Gaseous	1		Fan	Not Stated	4 1/2	200	Not Stated
Pine River Coal Co	Pine River				500	Non-Gaseous	1		Fan	Not Stated	3		Gasoline Engine
Pinnacle-Kremmer Coal Co	Regal No 1 (Wolf Creek)				300	Non-Gaseous	1		Fan	Not Stated	5	350	Steam
Prairie Canon Coal Co	Prairie Canon				1400	Non-Gaseous	1		Fan	Not Stated	5	210	Electric
Purify Coal Co	Refiance		2800			Gaseous	6	80	Fan	Not Stated	8	110	Electric
Rapial & Hughes	Phaelta				2500	Gaseous	1	24	Fan	Not Stated	5	200	Electric
Rapson Coal M Co	Rapson				2500	Gaseous	2	75	Fan	Not Stated	10	85	Electric
Rauman Coal Co	Rauman				1200	Non-Gaseous	1		Fan	Not Stated	4	300	Electric
Red Ash Coal Co	Red Ash				500	Non-Gaseous	1		Natural	Not Stated			
Reed & Aldred	Montezuma				200	Non-Gaseous			Natural	Not Stated			
Rice, Chas & Son	Pleasant Valley				170	Non-Gaseous			Natural	Not Stated			
Rifle Coal Co	McLearn				1200	Non-Gaseous	1		Fan	Not Stated	3		Electric
Richards, C H	Little Bear				215	Non-Gaseous			Natural	Not Stated			
Riverside Coal Co	Riverside				1000	Non-Gaseous	1		Fan	Not Stated	3	350	Gasoline Engine
Rochio Coal Co	Rochio (Walden)		531			Non-Gaseous	1		Fan	Not Stated	4 1/2		Electric
Rocky Mountain Fuel Co	Industrial		254	1 1/2%		Non-Gaseous	2		Fan	Not Stated	15	110	Steam
Rocky Mountain Fuel Co	Simpson		247			Non-Gaseous	1		Fan	Not Stated	12	120	Steam and Electric
Rocky Mountain Fuel Co	Acme		185			Non-Gaseous	2		Fan	Not Stated	13	100	Steam and Electric
Rocky Mountain Fuel Co	Standard		261			Gaseous	4		Fan	Not Stated	14	120	Steam and Electric
Rocky Mountain Fuel Co	Gorham		800			Non-Gaseous	1		Fan	Not Stated	4' 6" x 13	60	Electric
Rocky Mountain Fuel Co	Vulcan		183	3%		Gaseous	1		Fan	Not Stated	11' 5" x 5' 5"	90	Steam
Rocky Mountain Fuel Co	Alpine		150			Non-Gaseous	2		Fan	Not Stated	5' 6" x 3' 6"	120	Electric
Rocky Mountain Fuel Co	Forbes No 1				4300	Gaseous	2	80	Fan	Not Stated	14	100	Electric
Rocky Mountain Fuel Co	Southwestern				3000	Gaseous	2	50	Fans (2)	Not Stated	13' 6"	100	Electric
Rocky Mountain Fuel Co	Columbine		300	3%		Gaseous	22	400	Fans (2)	Not Stated	5	100	Electric
Rocky Mountain Fuel Co	Granl		155			Non-Gaseous	2		Fan	Not Stated	10	370	Electric
Rocky Mountain Fuel Co	Frederick		350	35%		Non-Gaseous	12		Fan	Not Stated	7	300	Electric
Ross Coal Co	Horace				3000	Non-Gaseous	3		Fan	Not Stated	14	75	Electric
Royal Fuel Co	Royal		273	8%		Gaseous	3	325	Fans (2)	Not Stated	8	125	Steam
Royal Gorge Coal Co	Royal Gorge		175	43%		Non-Gaseous	1		Fan	Not Stated	7	295	Steam and Electric
Royers, S J	Royers				300	Non-Gaseous			Natural	Not Stated	6		Steam
Russell, W E Coal Co	Russell		220			Non-Gaseous	2		Fan	Not Stated	14	110	Steam and Electric
Santa Fe Coal Co	Santa Fe				3000	Non-Gaseous			Fan	Not Stated	3		Electric
Service Coal Co	Service		417			Non-Gaseous			Fan	Not Stated	3' 6"	300	Gasoline Engine
Seven Points Coal Co	Seven Points			17%	450	Non-Gaseous				Not Stated			Gasoline Engine
Shamrock Coal Co	Shamrock		100			Non-Gaseous	1		Fan	Not Stated	5	1200	Steam and Electric
Shew Coal Co	Shew				700	Non-Gaseous	1		Natural	Not Stated			
Shew Coal Co	Fairview	Not	Stated			Non-Gaseous	1		Natural	Not Stated	4	533	Steam
Smith & Long	Lion Canon				375	Non-Gaseous	1		Fan	Not Stated			
South Canon Mine Leasing Co	South Canon		4800			Gaseous	1		Fan	Not Stated	12	80	Steam
Spencer, Geo S	Spencer	Not	Stated	Filed		Non-Gaseous			Not Stated				
Standard Fuel Co	Standard	No	Report			Non-Gaseous							
Stanley Mine Co	Stanley		250			Non-Gaseous	1		Natural	Not Stated	4		Electric
States-Hall Coal Co	States		435		800	Non-Gaseous	1		Fan	Not Stated			
Stokes, W D	Stokes		1700			Non-Gaseous	1		Fan	Not Stated	3	400	Electric
Sunnyvale Coal M Co	Sunnyvale		1000	12%		Non-Gaseous	2	135	Fan	Not Stated	4 1/2	150	Electric
Sunshine Coal Co	Bluff Springs No 3		40	1%		Non-Gaseous	1		Natural	Not Stated	5	475	Gasoline Engine
Sunshine Coal Co	Sunshine			8%	1200	Non-Gaseous	1		Fan	Not Stated			
Swyhart, P E	Kennedy	Not	Stated			Non-Gaseous				Not Stated			
Temple Fuel Co	Brodhead No 2		10000	9%		Non-Gaseous	2	2	Fan	Not Stated	4x10	95	Electric
Thomas Coal Co	Thomas				200	Non-Gaseous	1		Natural	Not Stated	5	380	Electric
Three Pines Coal Co	Three Pines		700	4%	1300	Non-Gaseous	2		Fan	Not Stated	5		Electric
Tipotach, Frank	Tipotach				500	Non-Gaseous			Natural	Not Stated	5	180	Electric
Torrid Coal Co	Torrid		1400	7%		Non-Gaseous	1		Fan	Not Stated			
Triangle Coal Co	Triangle				300	Non-Gaseous			Natural	Not Stated			
Trinidad Coal Co	Baldy Mountain		350			Non-Gaseous	1		Natural	Not Stated			
Union Coal & Coke Co	Fryor		C 2000 K 1800 R 1100	4%		Non-Gaseous	6	100	Fans (3)	Not Stated	6 9 5	110 100 200	Electric
Ute Coal Co	Collom				1000	Non-Gaseous			Natural	Not Stated			
Vesta Mines, Inc	Vesta		47		2000	Gaseous	2	32	Fan	Not Stated	10	80	Steam
Veta Coal Co	Cuchara Canon	No	Report	Filed		Non-Gaseous	1		Fan	Not Stated			
Vezzett & Monchett	Brookside		1800			Non-Gaseous	1		Fan	Not Stated			Electric
Vickers Coal Co	Vickers		2000	15%		Non-Gaseous	1		Fan	Not Stated	3	120	Electric
Victor-American Fuel Co	Chandler		462		2000	Gaseous	6	350	Fan	Not Stated	7x15	120	Electric
Victor-American Fuel Co	Radiant				1450	Non-Gaseous	3	125	Fan	Not Stated	6 1/2	145	Electric
Victor-American Fuel Co	Delagua				3300	Non-Gaseous	16		Fans (2)	Not Stated	16 18 12	124 71 95	Electric
Victor-American Fuel Co	Minnae				4200	Non-Gaseous	5		Fans (2)	Not Stated	8 7	85 310	Steam
Victor-American Fuel Co	Wadge		1 1041 2 3156	Slope 9° 15%		Gaseous	4	125	Fan	Not Stated			Steam
Wade Coal Co	Red Canon		400			Non-Gaseous	1		Natural	Not Stated			
Wellington Coal Co	Wellington		500			Non-Gaseous	1		Natural	Not Stated			Electric
White Ash Coal Co	White Ash		80			Non-Gaseous				Not Stated	5x13	70	Steam
White House Coal Co	Monroe		100		300	Non-Gaseous	1		Fan	Not Stated			
Whitlock, E R	Whitlock				125	Non-Gaseous			Natural	Not Stated			
Williams Coal Co	Williams				125	Non-Gaseous	1		Fan	Not Stated	4	1500	Gasoline Engine
Wilson Coal Co	Pritchard				1500	Non-Gaseous	1		Fan	Not Stated	2' 6"		
Winkler, Gus	Missouri		45		150	Non-Gaseous			Natural	Not Stated			
Winton Coal Co	Winton				1250	Non-Gaseous	1		Fan	Not Stated	1' 6"	1200	Electric
Wisconsin Coal M Co	Wailhan				660	Non-Gaseous			Natural	Not Stated			
Yampa Collieries Co	Yampa		1000	5%		Non-Gaseous	1		Fan	Not Stated	10	80	Steam
Zutto & Perko	Earnal				400	Non-Gaseous			Natural	Not Stated			

A A gaseous mine is one generating explosive gas in quantities sufficient to be detected by an approved safety lamp.

*Operated as one mine

Report covers both mines have same openings. The part called Jewel now closed

Slope, 5.4%; shaft, 7%.

No. 1, 10600; No. 2, 4050; No. 3, 3725; No. 4, 8850; No. 5, 7675.

Formerly operated by Nick Hagglo.

Table No. 2 omitted.

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TABLE No. 4

MINING MACHINES AND EXPLOSIVES USED AT COAL MINES IN THE STATE OF COLORADO FOR YEAR ENDED DECEMBER 31, 1925

Name of Operator	Name of Mine	Mining Machines		Coal Mined by (Short Tons)			Explosives Used (Pounds)		
		No. Operated by Compressed Air	No. Operated by Electricity	Hand	Machine	Total	Black Powder	Dynamite	Permissible
Ajax Coal M. Co.	Capitol	3	.....	.....	40,127	40,127	5,625	.....	6,100
Alamo Coal Co.	Alamo	.....	6	65,533	44,230	109,763	.....	.....	42,737
Altitude Coal Co.	Altitude	.....	.....	6,465	.....	6,465	.....	10	.....
American Coal & Power Co.	Routt-Pinnacle	1†	.....	1,517	.....	1,577	1,250	.....	.....
American Smelting & Ref. Co.	San Juan	.....	.....	25,968	.....	25,968	500	.....	2,025
American Smelting & Ref. Co.	Boncarbo	.....	8	53,055	149,662	202,717	.....	1,537	34,794
Amos Coal Co.	McCroskey	.....	.....	1,010	.....	1,010	2,550	.....	.....
Anchor Coal Co.	Anchor No. 2	.....	.....	1,272	.....	1,272	2,450	.....	.....
Arthur Coal Co.	Arthur	.....	.....	829	.....	829	1,375	.....	.....
Aztec Coal M. Co.	Toltec	1	5	4,901	61,535	66,436	.....	2,250	6,350
Babson Coal Co.	Babson	.....	.....	3,043	.....	3,043	3,225	.....	.....
Baldwin Fuel Co.	Baldwin Star	.....	.....	7,397	.....	7,397	3,355	.....	.....
Barker, Wright	Wright	.....	.....	535	.....	535	200	.....	.....
Baudino & Co.	Morning-Star	.....	.....	4,749	.....	4,749	350	.....	.....
Bear Canon Coal Co.	Bear Canon No. 3	1	1	1,111	1,795	2,906	.....	250	22,000
Bear Canon Coal Co.	Bear Canon No. 6	4	4	42,394	34,371	76,765	.....	.....	.....
Bell Mining Co.	Eureka	3	.....	.....	15,745	15,745	5,000	.....	.....
Bennett Coal Co.	Bennett	.....	.....	150	.....	150	.....	.....	.....
Big Four Coal & Coke Co.	Centennial	10	2	25,000	76,106	101,106	†	.....	.....
Black Canon Coal & Fuel Co.	Caddell	2	2	1,645	11,811	13,456	35,575	135	1,035
Black Diamond Coal Co.	Black Diamond	.....	.....	639	.....	639	14,000	.....	750
Black Hawk Coal Co.	Mohawk	.....	.....	.....	3,878	4,057	350	.....	.....
Black Hills Coal Co.	Black Hills	1	1	179	.....	179	1,000	50	800
Block Coal Co.	Block	.....	.....	164	.....	164	425	.....	.....
Bluff Springs Coal Co.	Bluff Springs No. 2	.....	.....	636	5,114	636	1,250	.....	.....
Bluff Springs Coal Co.	Bluff Springs No. 2	1	1	.....	.....	5,114	2,800	300	100

TABLE No. 4—Continued

MINING MACHINES AND EXPLOSIVES USED AT COAL MINES IN THE STATE OF COLORADO FOR YEAR ENDED DECEMBER 31, 1925

Name of Operator	Name of Mine	Mining Machines		Hand	Machine	Total	Explosives Used (Pounds)		
		No. Operated by Compressed Air	No. Operated by Electricity				Black Powder	Dynamite	Permissible
Boaglio Coal Co.	Pickford	.....	.....	577	.....	577	50	.....	.....
Bonner Bros. Coal Co.	Bonner	.....	.....	835	.....	835	1,250	.....	.....
Boulder Black Hawk Coal Co.	Boulder Black Hawk	.....	1	100	984	1,084	425	.....	.....
Boulder Coal M. Co.	Black Diamond	.....	2	.....	27,142	27,142	12,500	400	.....
Boulder Valley Coal Co.	Boulder Valley	5	6	.....	205,795	205,795	40,225	142	982
Bracken & Cozza	Harvey Gap	.....	.....	1,099	.....	1,099	†	†	†
Brant Coal Co.	Brant	.....	.....	241	.....	241	1,875	25	.....
Brown, Thos., Coal Co.	Round Oak	.....	.....	1,002	.....	1,002	.....	.....	200
Burnittall Fuel Co.	Burnittall	.....	.....	803	.....	803	500	.....	.....
Burro Creek Coal M. Co.	Tyler	.....	.....	450	.....	450	500	100	.....
Butcher Knife Coal Co.	Butcher Knife	.....	.....	2,337	.....	2,337	1,250	20	.....
Caddell & Son	Hezron	.....	.....	2,791	.....	2,791	.....	.....	300
Caliente Coal Co.	Ravenwood	8	.....	25,913	51,917	77,830	.....	.....	8,100
Caliente Coal Co.	Maitland	2	.....	216	40,740	40,956	.....	.....	5,250
Calumet Fuel Co.	Somerset	3	.....	163,393	26,404	189,797	.....	5,500	32,000
Calumet Fuel Co.	Calumet No. 1	.....	9	12,079	176,794	188,873	.....	.....	41,100
Calumet Fuel Co.	Calumet No. 2	.....	4	2,755	69,287	72,042	.....	.....	7,750
Calumet Fuel Co.	Perins Peak	.....	2	2,883	39,616	42,499	.....	.....	4,895
Cambro Mining Co.	Cambro	1	.....	.....	145	145	125	.....	20
Canon Coal Association	Brewster	.....	1	.....	3,415	3,415	100	.....	.....
Canon District Coal Co.	Florence District	.....	.....	.....	6,587	6,587	650	750	25
Canon Quality Coal Co.	South Magnet	.....	1	.....	2,226	2,226	1,250	500	200
Canon Reliance Coal Co.	Canon	.....	3	.....	65,164	65,164	.....	100	11,900
Canon United Coal Co.	Jack O' Lantern	.....	.....	3,804	.....	3,804	3,750	.....	.....

					332	250	50	1,400
Carbon Creek Coal Co.	Carbon Creek	.....	332	.....	7,257	.....	.....	.....
Cedar Hill Coal & Coke Co.	Greenville	.....	7,258	.....	1,786	.....	.....	.....
Champion Coal M. Co.	Champion	.....	1,786	.....	282	.....	.....	.....
Cherigo, Tom.	Cherigo	.....	282	.....	2,773	.....	300	.....
Christensen Coal Co.	Christensen	1	.....	2,773	.....	2,075	.....	.....
Clayton Coal Co.	Clayton	.....	10,000	250,683	260,683	111,400	400	15
Collier, Andy	Congo	5	197	.....	197	.....	.....	.....
Colorado Dev. & Leasing Co.	Evans	1	.....	22,685	22,685	12,600	.....	10,388
Colorado Fuel & Iron Co.	Coal Creek	.....	137,800	.....	137,800	2,094	.....	6,852
Colorado Fuel & Iron Co.	Rockvale	2	37,860	30,682	68,542	5,637	.....	.....
Colorado Fuel & Iron Co.	Fremont	2	33,568	24,704	58,272	327	.....	6,336
Colorado Fuel & Iron Co.	Nonac	3	4,310	20,309	24,619	4,857	.....	25
Colorado Fuel & Iron Co.	Emerald	1	3,723	3,509	7,232	18	.....	339
Colorado Fuel & Iron Co.	Crested Butte	.....	92,428	.....	92,428	.....	.....	3,612
Colorado Fuel & Iron Co.	Elk Mountain	.....	39,472	.....	39,472	775	.....	5,162
Colorado Fuel & Iron Co.	Walsen & Robinson 1 & 2	8	212,792	269,682	482,474	8,536	.....	52,833
Colorado Fuel & Iron Co.	Cameron	9	57,125	184,487	241,612	.....	.....	21,641
Colorado Fuel & Iron Co.	Lester	3	138,065	40,926	178,991	.....	.....	33,680
Colorado Fuel & Iron Co.	Ideal	.....	136,105	.....	136,105	.....	.....	37,940
Colorado Fuel & Iron Co.	Pictou	6	27,795	51,344	79,139	.....	.....	3,614
Colorado Fuel & Iron Co.	Kebler No. 2	6	13,340	53,102	66,442	22,363	.....	924
Colorado Fuel & Iron Co.	Morley	2	318,915	36,662	355,577	.....	.....	6,728
Colorado Fuel & Iron Co.	Frederick	3	290,873	40,470	331,343	.....	.....	44,777
Colorado Fuel & Iron Co.	Berwind	4	134,983	65,566	200,549	.....	.....	13,376
Colorado Fuel & Iron Co.	Toller	4	118,016	61,636	179,652	.....	.....	17,003
Colorado Fuel & Iron Co.	Tobasco	2	103,352	66,953	170,305	.....	.....	14,822
Colorado Fuel & Iron Co.	Sopris	4	129,818	33,591	163,409	.....	.....	38,287
Colorado Fuel & Iron Co.	Primero	.....	15,697	.....	15,697	.....	.....	1,511
Colorado Springs Co.	City Coal Mines	2	22,729	26,500	49,229	15,850	.....	170
Colorado & Utah Coal Co.	Harris	5	69,137	161,091	230,228	57,637	969	.....
Consolidated Coal & Coke Co.	Baum	7	.....	149,930	149,930	94,525	.....	.....
Converse, Frank	Converse	.....	905	.....	905	.....	.....	.....
Corley, W. D.	Corley	2	.....	13,877	13,877	11,250	.....	.....
Corley, W. D.	Franceville	.....	1,325	.....	1,325	1,000	.....	.....
Cortez Coal Co.	Cortez	.....	2,333	.....	2,333	500	50	.....
Cottonwood Coal Co.	Cottonwood	.....	595	.....	595	825	.....	.....
Cowan Coal Co.	Bluff Springs No. 1	1	604	6,271	6,875	.....	.....	.....
Cox Coal Co.	Cox	.....	242	.....	242	250	.....	.....
Cracker Jack Coal Co.	Cracker Jack	1	400	3,014	3,414	625	.....	.....
Crane & Robinson	Crane	.....	1,065	.....	1,065	425	.....	50

TABLE No. 4—Continued

MINING MACHINES AND EXPLOSIVES USED AT COAL MINES IN THE STATE OF COLORADO FOR YEAR ENDED
DECEMBER 31, 1925

Name of Operator	Name of Mine	Mining Machines		Coal Mined by (Short Tons)			Explosives Used (Pounds)		
		No. Operated by Compressed Air	No. Operated by Electricity	Hand	Machine	Total	Black Powder	Dynamite	Permissibles
Crescent Coal Co.	Crescent	.....	.....	186	.....	186	50	.....	.....
Crested Butte Anthracite M. Co.	Smith-Anthracite	.....	.....	40 123	.....	40,123	8,400	250	.....
Crested Butte Coal Co.	Bulkley No. 2	.....	.....	59,192	.....	59,192	27,850	150	.....
Crown Fuel Co.	Crown	3	1	.....	25,682	25,682	7,850	.....	.....
Cunningham & Elliott	Cunningham	.....	.....	84	.....	84	100	.....	.....
Danville Coal Co.	Danville	.....	.....	4,159	.....	4,159	.....	.....	.....
Davis Coal Co.	Lewis	.....	.....	988	.....	988	850	.....	.....
Davis T. P.	Engle	.....	.....	2,142	.....	2,142	.....	.....	.....
De Graffenried, J. R.	De Graffenried	.....	.....	100	.....	100	75	.....	.....
Dennis & Malone	Verdun	.....	.....	174	.....	174	.....	16	6
Dick Coal Co.	Dix	.....	3	12,208	59,437	71,645	.....	1,000	12,377
Domenico & Sons	Champion or Paramount	5	.....	3,322	15,000	18,322	21,250	.....	.....
Double Dick Coal Co.	Double Dick	.....	1	.....	9,340	9,340	1,500	600	200
Drennan Coal Co.	Drennan	.....	.....	500	.....	500	150	.....	.....
Drott, John H.	Liberty Bell	.....	.....	400	.....	400	400	.....	.....
Durango Coal Co.	New Porter (Durango)	.....	.....	6,894	.....	6,894	.....	.....	850
Electric Coal Co.	Black Diamond	.....	.....	1,359	.....	1,359	875	.....	.....
Empire Coal M. Co.	Empire	.....	.....	96,941	.....	96,941	.....	300	3,700
Eno Coal Co.	Marr	.....	.....	500	.....	500	.....	.....	.....
Estes, James F.	Estes	.....	.....	8,399	.....	8,399	.....	.....	3,000
Farmer-Mutual Coal Co.	Farmer-Mutual	.....	.....	1,205	.....	1,205	1,250	100	100
Fitzsimmons, E. A.	Berry	.....	.....	1,200	.....	1,200	425	.....	.....
Foreman, Thos. D.	Nine Mile	.....	.....	568	.....	568	.....	.....	.....
Fraker Coal Co.	Bear River	1	.....	50,808	14,702	65,510	24,175	500	.....

[illegible]

TABLE No. 4—Continued

MINING MACHINES AND EXPLOSIVES USED AT COAL MINES IN THE STATE OF COLORADO FOR YEAR ENDED
DECEMBER 31, 1925

Name of Operator	Name of Mine	Mining Machines		Coal Mined by (Short Tons)			Explosives Used (Pounds)		
		No. Operated by Compressed Air	No. Operated by Electricity	Hand	Machine	Total	Black Powder	Dynamite	Permissible
Lee, Dan & Son.....	Mascot.....	.....	.....	670	.....	670	300	.....	.....
Leyden Coal Co.....	Leyden No. 3.....	11	.....	31,166	63,825	99,991	27,200	.....	.....
Liberty Coal & Merc. Co.....	Nearing.....	.....	.....	712	.....	712	.....	.....	.....
Linn, A. C. & Sons.....	Mutual (Dry Creek).....	.....	.....	887	.....	887	500	.....	.....
Marcketti, J. R.....	Marion.....	.....	.....	3,120	.....	3,120	.....	.....	1,000
Matchless Fuel Co.....	Matchless.....	.....	.....	121	.....	121	.....	.....	.....
Mattivi, Steve & Sons.....	Bunker Hill.....	.....	.....	2,755	.....	2,755	.....	.....	100
Meeker Coal Co.....	Oldland.....	.....	.....	2,437	.....	2,437	2,225	.....	600
Midwest Coal Co.....	Midwest.....	2	.....	6,050	5,986	12,036	750	.....	.....
Mingan, Mike.....	Kurtzville.....	.....	.....	941	.....	941	.....	.....	.....
Minnie Coal Co.....	Minnie.....	.....	.....	576	.....	576	.....	200	.....
Moffat Coal Co.....	Oak Hills No. 1.....	2	.....	124,860	20,963	145,823	35,897	1,136	17,977
Moffat Coal Co.....	Oak Hills No. 2.....	1	5	112,713	26,102	138,815	34,489	1,091	17,272
Monger & Gray.....	Monger.....	.....	.....	415	.....	415	500	.....	.....
Montague, Joseph.....	Beaver Creek.....	.....	.....	382	.....	382	.....	.....	.....
Mt. Evans Fuel Co.....	Mt. Evans.....	.....	.....	2,623	.....	2,623	3,500	.....	.....
Mutual Coal Co.....	Mutual.....	.....	3	53,211	27,067	80,278	.....	.....	3,000
McCurdy Coal Co.....	Rush.....	.....	.....	607	.....	607	800	.....	.....
McGinley, Wm.....	McGinley.....	.....	.....	617	.....	617	1,000	.....	.....
McKee, Robert.....	McKee.....	.....	.....	200	.....	200	250	.....	.....
McLendon, O. K.....	Stove Canyon.....	.....	.....	3,598	.....	3,598	1,750	.....	.....
McMillin Bros.....	Rollins.....	.....	.....	302	.....	302	100	.....	.....
McNeil Coal Co.....	MacGregor.....	.....	5	.....	40,989	40,989	9,025	100	.....
National Fuel Co.....	Monarch No. 2.....	9	.....	12,388	132,090	144,478	46,775	.....	3,611

National Fuel Co.....	Thor.....	13	2	74,526	51,449	125,975	100,000	8,000
National Fuel Co.....	Puritan.....	5	5	1,005	290,256	291,261	375	
Naturita Stores Co.....	Cloverdale.....			72		72		
New Grand Mesa Coal Co.....	Winger.....	1	1	2,499	1,407	3,906	750	
No Ash Coal Co.....	No Ash.....			1,822		1,522	125	
North Magnet Coal Co.....	North Magnet.....			1,142		1,142	375	150
North Park Coal Co.....	Moore No. 1.....			62,721		62,721	40,000	1,000
Nyland, Andy.....	Midway.....			102		102	275	
Oakdale Coal Co.....	Oakdale.....	2	1	85,406	1,198	86,604		71,000
Oberding, W. J.....	Oberding.....			234		234	325	
Ohio Creek Coal Co.....	Ohio Creek.....		1	1,400	6,962	8,362	2,800	
Ohkrant Mining Co.....	Ohkrant.....			317		317	450	25
O. K. Coal Co.....	O. K.....			4,179		4,179	1,525	
Oliver Fuel & Coal Products Co.....	Oliver.....			14,270		14,270		6,000
Owens, Rowland & Sons.....	Owens.....			490		490	150	
Pace, W. C.....	Miller.....			193		193		2,000
Palisade Coal & Supply Co.....	Palisade.....			21,757		21,757		100
Paonia-Farmers Coal Co.....	Paonia.....			5,472		5,472	1,250	
Petry, Sam.....	Willie.....			1,280		1,280	275	16
Petty, Thos. M.....	Little Porter.....			91		91		
Pikes Peak Fuel Co.....	Pikeview.....		6	89,382	128,244	217,606		
Pine Fuel Co.....	Fawcett.....			929		929		50
Pine River Coal Co.....	Pine River.....			1,746		1,746	500	200
Pinnacle-Kemmerer Coal Co.....	Regal No. 1.....			16,296		16,296	8,250	
Prairie Canon Coal Co.....	Prairie Canon.....			33,145		33,145		6,000
Purity Coal Co.....	Reliance.....		1+	16,014		16,014		1,500
Rapini & Hughes.....	Placita.....			2,874		2,874		50
Rapson Coal M. Co.....	Rapson.....		3		19,740	19,740		400
Rauman Coal Co.....	Rauman.....			1,842		1,842	3,750	200
Red Ash Coal Co.....	Red Ash.....			573		573		
Reed & Alried.....	Montezuma.....			159		159	400	64
Rice, Chas. & Sons.....	Pleasant Valley.....			186		186	375	25
Riffe Coal Co.....	McLearn.....			1,655		1,655		1,000
Richards, C. H.....	Little Bear.....			325		325	200	
Riverside Coal Co.....	Riverside.....			3,758		3,758	175	400
Rocchio Coal Co.....	Rocchio (Walden).....		1		9,849	9,849	2,175	1,632
Rocky Mountain Fuel Co.....	Industrial.....		7	21,748	78,146	99,894	29,985	8
Rocky Mountain Fuel Co.....	Simpson.....	8+		62,361		62,361	22,766	200
Rocky Mountain Fuel Co.....	Acme.....	6		355	37,649	38,004	11,939	123
Rocky Mountain Fuel Co.....	Standard.....	8			35,597	35,597	7,638	399

TABLE No. 4—Continued

MINING MACHINES AND EXPLOSIVES USED AT COAL MINES IN THE STATE OF COLORADO FOR YEAR ENDED
DECEMBER 31, 1925

Name of Operator	Name of Mine	Mining Machines		Coal Mined by (Short Tons)			Explosives Used (Pounds)		
		No. Operated by Compressed Air	No. Operated by Electricity	Hand	Machine	Total	Black Powder	Dynamite	Permissible
Rocky Mountain Fuel Co.	Gorham	2	...	3,569	3,355	6,924	2,150	...	...
Rocky Mountain Fuel Co.	Vulcan	4	...	...	6,118	6,118	625	...	...
Rocky Mountain Fuel Co.	Alpine	...	1	13,221	9,385	22,606	7,625	...	...
Rocky Mountain Fuel Co.	Forbes No. 9	...	...	16,911	...	16,911	...	...	219
Rocky Mountain Fuel Co.	Southwestern	...	...	12,057	...	12,057	...	...	120
Rocky Mountain Fuel Co.	Columbine	...	8	124,445	230,115	354,560	67,750	...	48,346
Rocky Mountain Fuel Co.	Grant	...	5	270	91,040	91,310	27,580	...	...
Rocky Mountain Fuel Co.	Frederick	...	...	560	...	560	...	...	...
Ross Coal Co.	Horace	3½	...	43,999	...	43,999	30,575	4,055	2,501
Royal Fuel Coal	Royal	...	...	221,169	...	221,169	...	155	615
Royal Gorge Coal Co.	Royal Gorge	...	...	2,392	...	2,392	625	100	...
Royers, S. J.	Royers	...	...	321	...	321	755	100	...
Russell, W. E., Coal Co.	Russell	...	2	...	68,583	68,583	18,975	10	...
Santa Fe Coal Co.	Santa Fe	6	...	2,165	...	2,165	...	...	550
Service Coal Co.	Service	...	...	340	...	340	1,250	300	...
Seven Points Coal Co.	Seven Points	...	2	1,685	...	1,685	1,050	...	...
Shamrock Coal Co.	Shamrock	...	...	...	30,757	30,757	1,255	...	...
Shew Coal Co.	Shew	...	...	430	...	430	...	...	...
Shew Coal Co.	Fairview	...	...	210	...	210	...	...	...
Smith & Long	Lion Canon	...	...	820	...	820	1,050	...	...
South Canon Mine Leasing Co.	South Canon	...	...	5,866	...	5,866	...	...	4,500
Spencer, Geo. S.	Spencer	...	...	512	...	512	...	...	...
Standard Fuel Co.	Standard	...	...	307	...	307	...	...	...
Stanley Mine Co.	Stanley	26,087	...	26,087	1,000

States Hall Coal Co.	States	3,209				3,209																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</
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†Not in use.

‡Not stated.

\$No explosives used.

††Rock drilling.

TABLE No. 6

PRODUCTION AND DISTRIBUTION OF COAL FROM ALL THE MINES
IN THE STATE OF COLORADO FOR THE YEAR ENDING
DECEMBER 31, 1925.

Total Production Distributed	Loaded at Mines for Shipment	Sold to Local Trade and Used by Employees	Used at Mines for Steam and Heat	Coal Made into Coke	Coke Made
10,440,387	*9,347,661	668,216	229,883	*1,068,365	465,868

*NOTE—873,738 tons were loaded at the mines for shipment and made into coke.

VULCAN

Mine Hoists

Cages, Skips, Screens, Fans,
Gears, Castings, Forgings,
Platework - - -

Timken Rope Rollers

Agents: Eickhoff Jigging Conveyors

ENGINEERS & MANUFACTURERS

THE VULCAN IRON WORKS CO.

DENVER, COLORADO

TABLE No. 7
NUMBER INJURED IN COAL MINES DURING THE CALENDAR YEAR ENDING DECEMBER 31, 1925

CAUSES	Permanent Total Disability	Permanent Partial Disability	Temporary Disability		Total Injuries
			Time Lost More Than 14 Days	Time Lost Less Than 14 Days	
Underground—					
1. Falls of roof (coal, rock, etc.)	1	3	271	218	493
2. Falls of face or pillar coal	.....	2	83	55	140
3. Mine cars and locomotives	.....	4	249	189	442
4. Gas explosions and burning gas	.....	.....	5	.....	5
5. Coal-dust explosions (including gas and dust combined)	.....	1	1	.....	1
6. Explosives	.....	.....	4	1	6
7. Suffocation from mine gas	.....	.....	.....	.....	.....
8. Electricity	.....	1	2	6	9
9. Animals	.....	1	41	31	73
10. Mining machines	.....	3	60	44	107
11. Mines fires (burned, suffocated, etc.)	.....	.....	.....	.....	.....
12. Other causes	.....	5	216	304	525
On Shaft—					
13. Falling down shafts or slopes	.....	.....	.....	.....	.....
14. Objects falling down shafts or slopes	.....	.....	1	.....	1
15. Cages or skips	.....	.....	1	.....	1
16. Other causes	.....	.....	.....	.....	.....
Total number injured in mine	1	20	934	848	1,803
On Surface—					
17. Mine cars and mine locomotives	.....	.....	15	6	21
18. Electricity	.....	.....	.....	1	1
19. Machinery	.....	1	9	14	24
20. Boiler explosions or bursting steam pipes	.....	.....	2	4	6
21. Railway cars and locomotives	.....	.....	5	2	8
22. Other causes	.....	1	27	23	51
Total number injured on the surface	.....	2	58	49	109
GRAND TOTAL	1	22	992	897	1,912

A. PERMANENT TOTAL DISABILITY. Loss of both legs or arms, one leg and one arm, total loss of eyesight, paralysis or other condition permanently incapacitating workman from doing any work of a gainful occupation.

B. PERMANENT PARTIAL DISABILITY. Loss of one foot, leg, hand, eye, one or more fingers, one or more toes, and dislocation where ligaments are severed, or any other injury known in surgery to be permanent partial disability.

C. In this column include only accidents which cause a loss of time more than the balance of the day or shift upon which the accident occurred.

TABLE No. 8
COAL MINE FATALITIES IN THE STATE OF COLORADO, CLASSIFIED BY CAUSE AND OCCUPATION, FOR YEAR ENDED
DECEMBER 31, 1925.

CAUSES	UNDERGROUND AND SHAFT															Total Fatalities		
	Foreman	Assistant Foreman	Fire Bosses	Pick Miners	Machine Miners	Machine Runners and Scrapers	Shot Firers	Drivers and Runners	Motormen and Assistants	Doorboys and Helpers	Trackmen and Bratticemen	Timbermen and Rockmen	Pump and Pipemen	Electricians and Helpers	All Others		Total Underground	Surface Fatalities
Underground—																		
1. Falls of roof (coal, rock, etc.)	—			10	3	1										1	15	15
2. Falls of face or pillar coal				9	7						1	1					18	18
3. Mine cars and locomotives		1	1	1				3				1	2				9	9
4. Gas explosions and burning gas				1		3											4	4
5. Coal-dust explosions (including gas and dust combined)																		
6. Explosives							1										1	1
7. Suffocation from mine gases									2					1				
8. Electricity (shock or burns)					1												4	4
9. Animals																		
10. Mining machines																		
11. Mine fires (burned, suffocated etc.)																		
12. Other causes																		
Shaft—																		
13. Falling down shafts or slopes																1	1	1
14. Objects falling down shafts or slopes																		
15. Cages or skips																		
16. Other causes																		
Total underground	1	1	1	21	11	4	1	3	2		1	2	2	1	2		52	52

[illegible]

*To be supplied from Table 10.

†Above poll taken December, 1925.

TABLE No. 10

COAL MINE EMPLOYEES CLASSIFIED BY OCCUPATION IN THE STATE
OF COLORADO DURING YEAR ENDED DECEMBER 31, 1925.

UNDERGROUND		Employed in and around the mines of Colorado
1. Foremen		189
2. Assistant foremen		67
3. Fire bosses		146
4. Pick miners		4,485
5. Machine miners		3,761
6. Machine runners and scrapers		514
7. Shot firers		135
8. Drivers and runners		858
9. Motormen and assistants		219
10. Doorboys and helpers		62
11. Trackmen and bratticemen		315
12. Timbermen and rockmen		401
13. Pumpmen and pipemen		125
14. Electricians and helpers		116
15. All others		416
Total underground		11,809
SURFACE		
1. Superintendents		121
2. Foremen		47
3. Blacksmiths and carpenters		205
4. Engineers and firemen		278
5. Machinists and helpers		91
6. Trackmen and helpers		35
7. All others at mine		1,116
8. Coke-oven employees		201
9. Office employees		114
Total surface		2,208
Total employees		14,017
Number of days men worked during year		186.6

Table No. 9, omitted is covered by Table No. 8. Applies to Metal Mining.
Above poll taken in December, 1925.



NATIONAL CARBIDE

Best for House Lighting and Cooking,
Heating Water, Ironing and for
Barns, Poultry Houses, etc.

Because it is of Uniform Size—
Free from Dust—works
perfectly in all makes of genera-
tors—gives most gas per pound,
and is made of the very finest
materials in the most
modern plants.

Ask for NATIONAL Carbide

- In the RED Drum
- SAVES You Money

Over 100 Warehouses—from
coast to coast

National Carbide Sales Corporation,
342 Madison Avenue, New York, N.Y.
Gentlemen,
Please send booklet, "The Story of Carbide."
I am a Carbide user YES.....
NO.....
Name _____
Address _____

TABLE A—1925

SHOWING BY COMPANIES: TOTAL NUMBER OF TONS PRODUCED AND NUMBER OF MEN EMPLOYED; NUMBER OF FATAL ACCIDENTS; NUMBER OF MEN EMPLOYED PER FATAL ACCIDENT AND NUMBER OF TONS PRODUCED PER FATAL ACCIDENT; NUMBER OF NON-FATAL ACCIDENTS; NUMBER OF MEN EMPLOYED PER NON-FATAL ACCIDENT AND NUMBER OF TONS PRODUCED PER NON-FATAL ACCIDENT; NUMBER KILLED PER 1,000 EMPLOYED AND NUMBER OF MEN INJURED PER 1,000 EMPLOYED.

COMPANIES	Total Production	Number of Men Employed	Number of Fatal Accidents	Number of Men Employed per Fatal Accident	Number of Tons Produced per Fatal Accident	Number of Non-Fatal Accidents	No. of Men Employed per Non-Fatal Accident	Number of Tons Produced per Non-Fatal Accident	Killed per 1,000 Employed	Injured per 1,000 Employed
Alax Coal Mining Co.	40,127	33				5	6.6	8,025		151.5
Alamo Coal Co.	109,763	125				27	4.6	4,065		216.0
Altitude Coal Co.	6,465	13								
American Coal & Power Co.	1,577	21								
American Smelting & Refining Co.	228,685	261	1	261.0	228,685	58	4.5	3,943	3.8	222.2
Amos Coal Co.	1,010	5								
Anchor Coal Co.	1,372	2								
Arthur Coal Co.	829	2				7	13.1	9,491		76.1
Aztec Coal Mining Co.	66,436	92								
Babson Coal Co.	3,043	4								
Baldwin Fuel Co.	7,397	9								
Barker, Wright	7,385	2								
Baudino & Co.	4,749	5				1	5.0	4,749		200.0
Bear Canon Coal Co.	79,671	122	2	61.0	39,836	12	10.2	6,639	16.4	98.4
Bell Mining Co.	15,745	22	1	22.0	15,745	4	5.5	3,936	45.4	181.8
Bennett Coal Co.	150	1								
Big Four Coal & Coke Co.	101,106	119	1	119.0	101,106	7	17.0	14,403	8.4	58.8
Black Canon Coal & Fuel Co.	13,456	33				1	33.0	13,456		30.3
Black Diamond Coal Co.	639	3								
Black Hawk Coal Co.	4,057	11				4	2.8	1,014		363.6
Black Hills Coal Co.	164	4								
Block Coal Co.	636	3								
Bloom, W. F.	†	1	1	1.0					1,000.0	
Buff Springs Coal Co.	5,114	14				3	4.7	1,705		214.3

Boagho Coal Co.	577	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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TABLE A—Continued

COMPANIES	Total Production	Number of Men Employed	Fatal Accidents	Number of Men Employed per Fatal Accident	Number of Tons Produced per Fatal Accident	Number of Non- Fatal Accidents	No. of Men Em- ployed per Non- Fatal Accident	Number of Tons Produced per Non-Fatal Accident	Killed per 1,000 Employed	Injured per 1,000 Employed
Standard Fuel Co.	307	2								
Stanley Mine Co.	26,087	31				1	31.0	26,087		32.3
States Hall Coal Co.	3,209	4								
Stokes, W. P.	4,245	8				1	8.0	4,245		195.0
Sunnyside Coal Mining Co.	63,082	95				5	19.0	12,616		52.6
Sunshine Coal Co. (Fremont County)	237	4								
Sunshine Coal Co. (La Plata County)	10,546	10								
Swyhart, P. E.	249	1								
Temple Fuel Co.	139,470	183	1	183.0	139,470	16	11.4	8,717	5.5	87.4
Thomas Coal Co.	608	2								
Three Pines Coal Co.	19,662	53	1	53.0	19,662	3	17.7	6,554	18.9	56.6
Tipotsch, Frank	1,239	2								
Torrid Coal Co.	11,531	25				4	6.3	2,883		160.0
Triangle Coal Co.	1,790	3								
Trinidad Coal Co.	1,984	3				2	1.5	992		665.7
Union Coal & Coke Co.	49,368	77				2	38.5	24,684		26.0
Ute Coal Co.	585	1								
Vesta Mines, Inc.	16,170	24	1	24.0	16,170	4	6.0	4,043	41.7	166.7
Veta Coal Co.	363	10								
Vezzetti & Moschetti	19,480	15				2	7.5	9,740		133.3
Vickers Coal Co.	23,047	37								
Victor-American Fuel Co.	806,663	1,040	5	208.0	161,333	5	7.4	4,609	4.8	135.1
Wade Coal Co.	3,402	5				258	4.0	3,127		238.5
Wellington Coal Co.	4,935	12								
White Ash Coal Co.	826	3								
White House Coal Co.	3,000	20								
Whitlock Coal Co.	300	1								
Williams Coal Co.	247	4								
Wilton Coal Co.	1,187	2								

Winkler, Gus	167	1				
Winton Coal Co.	80	2				
Wisconsin Coal Co.	35	5				
Yampa Collieries Co.	17,846	27		4	5.8	4,462
Zullo & Perko	221	1				
Totals of State of Colorado.	10,440,387	12,228	57	183,165	1,912	5,460
						466
						156.36

*Changed to Canby Hawkins.

+No tonnage reported.

†Development work.

Allen & Garcia Co.

CONSULTING AND CONSTRUCTING ENGINEERS
DESIGNING, SUPERINTENDENCE, CONSTRUCTION

EVERYTHING FOR A COAL MINE,
INCLUDING STRUCTURES, ME-
CHANICAL AND ELECTRICAL IN-
STALLATIONS, SHAFT SINKING,
DEVELOPMENT AND OPERATION

Examinations :: Reports :: Appraisals

ISABELLA BLDG., 21 E. VAN BUREN STREET, CHICAGO

The EMPIRE COAL MINING *Company*

809 Interstate Trust Building
Denver, Colorado



Produces and Markets

Empire Heat

Colorado's Premier Furnace Coal

TABLE B

SHOWING BY COUNTIES, MINES OPERATED, NAME OF OPERATOR AND ADDRESS OF MINE, CHARACTER OF COAL, NUMBER OF DAYS WORKED, AVERAGE NUMBER OF MEN EMPLOYED, TOTAL NUMBER OF TONS OF COAL PRODUCED IN 1925, AND CAPACITY OF MINE PER DAY IN TONS.

ARCHULETA COUNTY

Name of Mine	Name of Company	Mine Post Office	Character of Coal	Number of Days Worked	Average No. of Men Employed	Total Number Produced	Capacity of Mine Per Day, Tons
Crane Cox	Crane & Robinson Cox Coal Co.	Bayfield Pagosa Springs	Sub-bituminous Sub-bituminous	107 90	1 3	1,065 242	20
Total Number	of Mines Operated: 2			94.3	4	1,307	

BOULDER COUNTY

Industrial	Rocky Mountain Fuel Co.	Superior	Sub-bituminous	173.1	106	99,894	1,000
Simpson	Rocky Mountain Fuel Co.	Lafayette	Sub-bituminous	190.5	36	62,361	350
Acme	Rocky Mountain Fuel Co.	Louisville	Sub-bituminous	115.4	70	38,004	500
Standard	Rocky Mountain Fuel Co.	Lafayette	Sub-bituminous	134	34	35,597	350
Gorham	Rocky Mountain Fuel Co.	Gorham	Sub-bituminous	71.2	19	6,924	200
Vulcan	Rocky Mountain Fuel Co.	Lafayette	Sub-bituminous	86	11	6,118	500
Monarch No. 2	National Fuel Co.	Broomfield	Sub-bituminous	234.9	155	144,478	725
Centennial	Big Four Coal & Coke Co.	Louisville	Sub-bituminous	156.3	119	101,106	900
Capitol	Ajax Coal M. Co.	Louisville	Sub-bituminous	283.2	33	40,127	100
Black Diamond	Boulder Coal M. Co.	Boulder	Sub-bituminous	279	22	27,142	180
Crown	Crown Fuel Co.	Gorham	Sub-bituminous	117	39	25,682	350
Paramount (Champion)	Domenico & Sons, Inc.	Louisville	Sub-bituminous	140	37	18,322	200
Nonpareil	Head Bros.	Louisville	Sub-bituminous	52	16	3,863	
Cracker Jack	Cracker Jack Coal Co.	Boulder	Sub-bituminous	104	6	3,414	
Boulder Black Hawk	Boulder Black Hawk Coal Co.	Boulder	Sub-bituminous	173	3	1,084	25
Lewis	Davies Coal Co.	Gorham	Sub-bituminous	298	2	988	15
Red Ash	Red Ash Coal Co.	Gorham	Sub-bituminous	93	1	573	
Cambro	Cambro Mining Co.	Louisville	Sub-bituminous	36	3	145	
Matchless	Matchless Fuel Co.	Gorham	Sub-bituminous	12	2	121	
Total Number	of Mines Operated: 19			171.2	714	615,943	

TABLE B—Continued

DELTA COUNTY

Name of Mine	Name of Company	Mine Post Office	Character of Coal	Number of Days Worked	Average No. of Men Employed	Total Num- ber of Tons Produced	Capacity of Mine Per Day, Tons
King.....	Juanita Coal & Coke Co.....	Bowie.....	Bituminous.....	78	50	45,471	1,000
Green Valley.....	Green Valley Coal Co.....	Cedaredge.....	Semi-bituminous.....	299	8	6,758	50
Paonia.....	Paonia-Farmers Coal Co.....	Paonia.....	Semi-bituminous.....	173	4	5,472	.....
Red Canon.....	Wade Coal Co.....	Cedaredge.....	Semi-bituminous.....	148.6	5	3,402	30
States.....	States Hall Coal Co.....	Cedaredge.....	Semi-bituminous.....	250	4	3,209	30
Red Mountain.....	A. W. Hall & Son.....	Cedaredge.....	Semi-bituminous.....	143	4	2,415	40
Independent.....	Independent Coal Co.....	Cedaredge.....	Semi-bituminous.....	133	2	1,134	20
Berry.....	E. A. Fitzsimmons.....	Paonia.....	Semi-bituminous.....	120	2	1,200	15
Kurtzville.....	Mike Mingan.....	Hotchkiss.....	Semi-bituminous.....	176	2	941	3
Converse.....	Frank Converse.....	Paonia.....	Semi-bituminous.....	182	2	905	30
Winton.....	Winton Coal Co.....	Austin.....	Semi-bituminous.....	163	2	870	.....
Gelwick.....	R. Hodges.....	Paonia.....	Semi-bituminous.....	226.5	2	664	15
Owens.....	Rolland Owens & Sons.....	Hotchkiss.....	Semi-bituminous.....	120	2	490	8
Rollins.....	McMillin Bros.....	Delta.....	Semi-bituminous.....	53.5	2	302	.....
Bennett.....	Bennett Coal Co.....	Hotchkiss.....	Semi-bituminous.....	100	1	150	10
De Graffenried.....	J. R. De Graffenried.....	Hotchkiss.....	Semi-bituminous.....	60	1	100	.....
Total Number.....	of Mines Operated: 16.....	.....	.....	127	93	73,483	.....

ELBERT COUNTY

Burnittall.....	Burnittall Fuel Co.....	Matheson.....	Sub-bituminous.....	221	2	803	100
Mascot.....	Dan Lee & Son.....	Matheson.....	Sub-bituminous.....	63	2	670	20
Wright.....	Wright Barker.....	Matheson.....	Sub-bituminous.....	85	2	535	30
Total Number.....	of Mines Operated: 3.....	.....	.....	123	6	2,008	.....

EL PASO COUNTY

Total Number	of Mines Operated:	12	189	176	217,606
Pikeview	Pikes Peak Fuel Co.	Sub-bituminous	189	176	217,606
Keystone	Keystone Mining Co.	Sub-bituminous	229	26	34,171
Elk City Coal Mines	Colorado Springs Company	Sub-bituminous	226	59	49,229
Corley	W. D. Corley	Sub-bituminous	302	16	13,877
Franceville	W. D. Corley	Sub-bituminous	160	3	1,325
Altitude	Altitude Coal Co.	Sub-bituminous	221	13	6,465
Danville	Danville Coal Co.	Sub-bituminous	247	7	4,159
Golden Dawn	Golden Dawn Coal Co.	Sub-bituminous	267	3	1,610
Rush	McCurdy Coal Co.	Sub-bituminous	126	3	607
Cottonwood	Cottonwood Coal Co.	Sub-bituminous	251	2	595
Drennan	Drennan Coal Co.	Sub-bituminous	163	1	500
Cunningham	Cunningham & Elliott	Sub-bituminous	26	4	84
Total Number	of Mines Operated: 12		2058	313	330,228

FREMONT COUNTY

Coal Creek.....	Colorado Fuel & Iron Co.....	Semi-bituminous.....	192.5	224	137,800	800
Rockvale.....	Colorado Fuel & Iron Co.....	Rockvale.....	154.4	186	68,542	600
Fremont.....	Colorado Fuel & Iron Co.....	Florence.....	170.2	108	58,272	500
Nonac.....	Colorado Fuel & Iron Co.....	Canon City.....	181.8	26	24,619	150
Emerald.....	Colorado Fuel & Iron Co.....	Florence.....	38	74	7,232	300
Chandler.....	Victor-American Fuel Co.....	Chandler.....	264.6	255	179,581	1,000
Radiant.....	Victor-American Fuel Co.....	Pyrolite.....	89.8	101	20,656	400
Canon.....	Canon-Reliance Coal Co.....	Canon City.....	214.5	68	65,164	450
Brookside.....	Vezzetti & Moschetti.....	Canon City.....	264	15	19,480	75
Walden.....	Rocchio Coal Co.....	Coal Creek.....	209	14	9,849	40
Griffiths.....	Griffiths Coal Co.....	Canon City.....	168	11	9,534	.....
Double Dick.....	Double Dick Coal Co.....	Coal Creek.....	251	14	9,340	50
Bluff Springs No. 2.....	Bluff Springs Coal Co.....	Florence.....	167	14	5,114	30
Bluff Springs No. 1.....	Cowan Coal Co.....	Florence.....	241	17	6,875	.....
Bluff Springs No. 3.....	Sunshine Coal Co.....	Florence.....	43	4	237	.....
Florence Canon.....	Canon District Coal Co.....	Canon City.....	200	18	6,587	75
Mohawk.....	Black Hawk Coal Co.....	Canon City.....	310	11	4,057	50
Jack O'Lantern.....	Canon United Coal Co.....	Canon City.....	181	8	3,804	20
Brewster.....	Canon Coal Association.....	Florence.....	265	12	3,415	40
Royal Gorge.....	Royal Gorge Coal Co.....	Canon City.....	209	4	2,392	12
South Magnet.....	Canon Quality Coal Co.....	Rockvale.....	273	8	2,226	25
Willie.....	Sam Petry.....	Florence.....	152	3	1,280	10
North Magnet.....	North Magnet Coal Co.....	Florence.....	129	4	1,142	.....
Total Number.....	of Mines Operated: 23.....	.....	186.3	199	647,198	.....

TABLE B—Continued

GARFIELD COUNTY

Name of Mine	Name of Company	Mine Post Office	Character of Coal	Number of Days Worked	Average No. of Men Employed	Total Number of Tons Produced	Capacity of Mine Per Day, Tons
Carbonera.....	Gilson Asphaltum Co.....	Mack.....	Bituminous.....	240.5	10	11,874	60
Estes.....	James F. Estes.....	Rifle.....	Bituminous.....	282	4	8,399	100
South Canon.....	South Canon Mine Leasing Co.....	Glenwood Springs.....	Bituminous.....	195	10	5,866	20
Rauman.....	Rauman Coal Co.....	Rifle.....	Bituminous.....	247	5	1,842	30
McLearn.....	Rifle Coal Co.....	Rifle.....	Bituminous.....	206	2	1,655	.....
Harvey Gap.....	Bracken & Cozza.....	New Castle.....	Bituminous.....	249.3	2	1,099	.....
Ohkraut.....	Ohkraut Mining Co.....	Glenwood Springs.....	Bituminous.....	110	1	317	.....
Ernest.....	Zullo & Perko.....	Glenwood Springs.....	Bituminous.....	73	1	221	.....
Total Number	of Mines Operated: 8			223.2	35	31,273	.....

GUNNISON COUNTY

Somerset.....	Calumet Fuel Co.....	Somerset.....	Bituminous.....	183.1	162	189,797	1,500
Crested Butte.....	Colorado Fuel & Iron Co.....	Crested Butte.....	Bituminous.....	187.4	111	92,428	500
Elk Mountain.....	Colorado Fuel & Iron Co.....	Crested Butte.....	Semi-anthracite.....	202.3	60	39,472	300
Bulkley No. 2.....	Crested Butte Coal Co.....	Crested Butte.....	Bituminous.....	225	42	59,192	400
Smith-Anthracite.....	Crested Butte Anth. M. Co.....	Crested Butte.....	Anthracite.....	220	45	40,123	300
Horace.....	Ross Coal Co.....	Crested Butte.....	Anthracite.....	234.8	75	43,999	300
Alpine.....	Rocky Mountain Fuel Co.....	Baldwin.....	Semi-bituminous.....	110	39	22,606	350
Oliver.....	Oliver Fuel & Coal Prod. Co.....	Somerset.....	Semi-anthracite.....	208	18	14,270	200
Ohio Creek.....	Ohio Creek Coal Co.....	Gunnison.....	Bituminous.....	157	11	8,362	50
Baldwin-Star.....	Baldwin Fuel Co.....	Baldwin.....	Bituminous.....	143	9	7,397	100
Bonner.....	Bonner Coal Co.....	Gunnison.....	Bituminous.....	50	3	835	25
Carbon Creek.....	Carbon Creek Coal Co.....	Gunnison.....	Bituminous.....	97	1	332	.....
Total Number	of Mines Operated: 12			192.5	576	518,813	.....

HUERFANO COUNTY

Walsen.....	Colorado Fuel & Iron Co.....	Walsen.....	256	470	482,474	2,700
Cameron.....	Colorado Fuel & Iron Co.....	Farr.....	225	203	241,612	1,150
Lester.....	Colorado Fuel & Iron Co.....	Lester.....	253.7	192	178,991	900
Ideal.....	Colorado Fuel & Iron Co.....	Ideal.....	193.8	182	136,105	800
Pictou.....	Colorado Fuel & Iron Co.....	Pictou.....	141	130	79,139	800
Kehler No. 2.....	Colorado Fuel & Iron Co.....	Tioga.....	242.9	62	66,412	600
Calumet No. 1.....	Calumet Fuel Co.....	Delcarbon.....	202.4	173	188,873	935
Calumet No. 2.....	Calumet Fuel Co.....	Delcarbon.....	196.1	67	72,042	500
Alamo.....	Alamo Coal Co.....	Alamo.....	187	125	109,763	1,000
Oakdale.....	Oakdale Coal Co.....	Oakview.....	235.1	119	86,604	500
Mutual.....	Mutual Coal Co.....	Walsenburg.....	188.5	106	80,278	600
Ravenwood.....	Caliente Coal Co.....	Ravenwood.....	251	126	77,830	500
Maitland.....	Caliente Coal Co.....	Maitland.....	156	107	40,556	400
Toltec.....	Aztec Coal M. Co.....	Toltec.....	177.5	92	66,436	....
Sunnyside.....	Sunnyside Coal M. Co.....	Strong.....	129.5	95	63,083	600
Pryor.....	Union Coal & Coke Co.....	Pryor.....	131.5	77	49,368	500
Gordon.....	Gordon Coal Co.....	Gordon.....	244	66	47,236	300
Vesta.....	Vesta Mines, Inc.....	Gordon.....	227	24	16,170	175
Reliance.....	Purity Coal Co.....	Ojo.....	149	38	16,014	150
Caddell.....	Black Canon Coal & Fuel Co.....	Walsenburg.....	180	33	13,456	150
Torrid.....	Torrid Coal Co.....	Rugby.....	232	25	11,531	71
Leader No. 2.....	Fruth & Stone.....	Rouse.....	237	17	7,307	60
Leader No. 1.....	Fruth & Stone.....	Rouse.....	88	11	918	45
Hezron.....	Caddell & Son.....	Pryor.....	135	7	2,791	....
Bunker Hill.....	Steve Mattivi & Sons.....	Rapson.....	84	24	2,755	50
No Ash.....	No Ash Coal Co.....	Rouse.....	68	8	1,522	20
Round Oak.....	Thos. Brown Coal Co.....	Walsenburg.....	52	5	1,002	10
Cuchara Canon.....	Veta Coal Co.....	Lester.....	25	10	363	....
Black Hills.....	Black Hills Coal Co.....	Tioga.....	50	4	164	....
Total Number.....	of Mines Operated: 29.....		207.1	25,982	141,234	....

JACKSON COUNTY

Moore.....	North Park Coal Co.....	Coalmont.....	199	54	62,721	500
Marr.....	Eno Coal Co.....	Walden.....	90	3	500	20
Total Number.....	of Mines Operated: 2.....		193.3	57	63,221	....

TABLE B—Continued

JEFFERSON COUNTY

Name of Mine	Name of Company	Mine Post Office	Character of Coal	Number of Days Worked	Average No. of Men Employed	Total Number of Tons Produced	Capacity of Mine Per Day, Tons
Leyden No. 3.....	Leyden Coal Co.....	Leyden via Golden.....	Sub-bituminous.....	161	109	99,991	1,000
Christensen.....	Christensen Coal Co.....	Littleton.....	Sub-bituminous.....	210	5	2,773	100
Sheron or Glendale.....	Glendale Mining Co.....	Morrison.....	Sub-bituminous.....	100	4	584	20
Total Number	of Mines Operated: 3			161	118	103,348	.....

LA PLATA COUNTY

Perins Peak.....	Calumet Fuel Co.....	Perins.....	Bituminous.....	220.3	49	42,499	160
San Juan.....	American Smelt. & Refn. Co.....	Durango.....	Bituminous.....	223	34	25,368	150
Sunshine.....	Sunshine Coal Co.....	Durango.....	Bituminous.....	203	10	10,546	.....
New Porter (Durango).....	Durango Coal Co.....	Durango.....	Bituminous.....	229	11	6,894	50
Morning Star.....	Baudino & Co.....	Durango.....	Bituminous.....	228	5	4,749	20
O. K.....	O. K. Coal Co.....	Durango.....	Bituminous.....	185	6	4,179	40
Triangle (Graves).....	Triangle Coal Co.....	Durango.....	Bituminous.....	177	3	1,790	30
Champion.....	Champion Coal Co.....	Durango.....	Bituminous.....	180	4	1,786	50
Pine River.....	Pine River Coal Co.....	Bayfield.....	Bituminous.....	231	3	1,746	20
Tipotsch.....	Frank Tipotsch.....	Hesperus.....	Semi-bituminous.....	158	2	1,239	20
Valley View.....	Karl Hauert.....	Mancos.....	Semi-bituminous.....	281	2	1,140	25
Gadberry.....	R. V. Gadberry.....	Hesperus.....	Semi-bituminous.....	130	2	1,021	.....
Black Diamond.....	Black Diamond Coal Co.....	Durango.....	Bituminous.....	73	3	639	15
Minnie.....	Minnie Coal Co.....	Durango.....	Bituminous.....	108	2	576	10
Beaver Creek.....	Joseph Montague.....	Bayfield.....	Bituminous.....	224	2	382	.....
Little Porter.....	Thos. M. Petty.....	Durango.....	Semi-bituminous.....	30	3	91	10
Total Number	of Mines Operated: 16			207.3	141	105,245	.....

LAS ANIMAS COUNTY

Morley.....	Colorado Fuel & Iron Co.	Morley.....	Bituminous.....	259.4	324	355,577	1,500
Frederick.....	Colorado Fuel & Iron Co.	Valdez.....	Bituminous.....	242.2	293	331,343	1,600
Berwind.....	Colorado Fuel & Iron Co.	Berwind.....	Bituminous.....	243.5	211	200,549	750
Toller.....	Colorado Fuel & Iron Co.	Berwind.....	Bituminous.....	282.7	165	179,652	750
Tabasco.....	Colorado Fuel & Iron Co.	Berwind.....	Bituminous.....	261	135	170,305	900
Sopris.....	Colorado Fuel & Iron Co.	Sopris.....	Bituminous.....	223.8	231	163,409	1,000
Primero.....	Colorado Fuel & Iron Co.	Primero.....	Bituminous.....	21	139	15,697	1,200
Delagua.....	Victor-American Fuel Co.	Delagua.....	Bituminous.....	183.8	431	374,158	2,500
Royal.....	Royal Fuel Co.	Aguilar.....	Bituminous.....	252.7	233	221,169	1,100
Thor.....	National Fuel Co.	Bowen.....	Bituminous.....	280	127	125,975	500
Boncarbo.....	American Smelt. & Refn. Co.	Cokedale.....	Bituminous.....	231	227	202,717	1,500
Broadhead No. 9.....	Temple Fuel Co.	Broadhead.....	Bituminous.....	228	183	139,470	700
Empire.....	Empire Coal M. Co.	Aguilar.....	Bituminous.....	169.5	115	96,941	700
Bear Canon No. 6.....	Bear Canon Coal Co.	Vallorso.....	Bituminous.....	188.5	95	76,765	500
Bear Canon No. 3.....	Bear Canon Coal Co.	Vallorso.....	Bituminous.....	49	27	2,906	150
Dix.....	Dick Coal Co.	Boncarbo.....	Bituminous.....	242	94	71,645	400
Ludlow.....	Huerfano Coal Co.	Ludlow.....	Bituminous.....	150.2	100	61,526	600
Creston.....	Jewel Collieries Corp.	Aguilar.....	Bituminous.....	166	57	26,383	225
Jewel.....	Jewel Collieries Corp.	Aguilar.....	Bituminous.....	188	39	18,258	225
Prairie Canon.....	Prairie Canon Coal Co.	Vallorso.....	Bituminous.....	267	48	33,145	300
Forbes No. 9.....	Rocky Mountain Fuel Co.	Forbes.....	Bituminous.....	75.4	51	16,911	350
Southwestern.....	Rocky Mountain Fuel Co.	Aguilar.....	Bituminous.....	114.7	41	12,057	300
Stanley.....	Stanley Mine Co.	Boncarbo.....	Bituminous.....	202.5	31	26,087	200
Vickers.....	Vickers Coal Co.	Rugby.....	Bituminous.....	232	37	23,047	100
Rapson.....	Rapson Coal and M. Co.	Rapson.....	Bituminous.....	184.2	43	19,740	300
Three Pines.....	Three Pines Coal Co.	Vallorso.....	Bituminous.....	140	53	19,662	250
Greenville.....	Cedar Hill Coal & Coke Co.	Ludlow.....	Bituminous.....	134	16	7,258	250
Jeffreyes.....	Jeffreyes Fuel Co.	Trinidad.....	Bituminous.....	276	15	5,970	35
Wellington.....	Wellington Mining Co.	Pryor.....	Bituminous.....	162	12	4,935	35
Santa Fe.....	Santa Fe Coal Co.	Trinidad.....	Bituminous.....	70	9	2,165	400
Engle.....	T. P. Engle	Engleburg.....	Bituminous.....	69	8	2,142	40
Baldy Mt.....	Trinidad Coal Co.	Trinidad.....	Bituminous.....	267	3	1,984	15
Baldy (Sherman).....	Wm. Irons, Jr.	Trinidad.....	Bituminous.....	215	4	1,924	10
Bonner.....	Home Fuel & Supply Co.	Trinidad.....	Bituminous.....	100	3	1,270	10
Beshoar.....	Halbert Coal Co.	Trinidad.....	Bituminous.....	114	2	1,235	10

TABLE B—Continued
LAS ANIMAS COUNTY—Continued

Name of Mine	Name of Company	Mine Post Office	Character of Coal	Number of Days Worked	Average No. of Men Employed	Total Num- ber of Ton- s Produced	Capacity of Mine Per Day, Tons
Pritchard	Wilton Coal Co.	Trinidad	Bituminous	176	2	1,187	10
Fawcett	Pine Fuel Co.	Agular	Bituminous	209	2	929	10
Pickford	Boaglio Coal Co.	Trinidad	Bituminous	182	1	577	3
Shew	Shew Coal Co.	Trinidad	Bituminous	84	2	430	.....
Fairview	Shew Coal Co.	Trinidad	Bituminous	60	1	210	.....
Standard	Standard Fuel Co.	Trinidad	Bituminous	113	2	307	.....
Congo	Andy Collier	Trinidad	Bituminous	45	2	197	10
Morris	Canby Hawkins	Trinidad	Bituminous	86	2	176	12
Verdun	Dennis & Malone	Trinidad	Bituminous	113.5	1	174	10
Total Number	of Mines Operated: 44			212.8	3,616	3,018,164	.....
MESA COUNTY							
Cameo	Grand Junction M. & Fuel Co.	Cameo	Semi-bituminous	194.5	81	73,321	600
Palisade	Palisade Coal & Supply Co.	Palisade	Semi-bituminous	208.5	29	21,757	150
Midwest	Midwest Coal Co.	Palisade	Semi-bituminous	169.5	26	12,636	200
Garfield	B. Gearhart	Palisade	Semi-bituminous	279	8	7,667	.....
Stokes	W. D. Stokes	Palisade	Semi-bituminous	174	8	4,345	80
Winger	New Grand Mesa Coal Co.	Palisade	Semi-bituminous	230	4	3,906	50
Riverside	Riverside Coal Co.	Palisade	Semi-bituminous	230	6	3,758	40
Stove Canyon	O. K. McLendon	Palisade	Semi-bituminous	211	3	3,598	40
Hidden Treasure	Hidden Treasure M. Co.	Fruita	Semi-bituminous	200	2	1,632	25
Anchor No. 2	Anchor Coal Co.	Fruita	Semi-bituminous	181	2	1,372	60
Farmer-Mutual No. 1	Farmer-Mutual Coal Co.	Fruita	Semi-bituminous	237	3	1,205	30
Nearing	Liberty Coal & Merc. Co.	Fruita	Semi-bituminous	76	2	712	20
McGinley	Wm. McGinley	Grand Junction	Semi-bituminous	127	2	617	25
Thomas	Thomas Coal Co.	Grand Junction	Semi-bituminous	100	2	608	.....
Service	Service Coal M. Co.	Grand Junction	Semi-bituminous	48	7	340	.....
Williams	Williams Coal Co.	Grand Junction	Semi-bituminous	90	4	247	.....
Crescent	Crescent Coal Co.	Grand Junction	Semi-bituminous	41	3	186	30
Hunter	J. B. Hunter	Grand Junction	Semi-bituminous	25	3	172	.....
Midway	Andy Nyland	Fruita	Semi-bituminous	25	3	102	.....
Total Number	of Mines Operated: 19			180.9	198	137,381	.....

MOFFAT COUNTY

Mt. Evans.....	Mt. Evans Fuel Co.....	Craig.....	Bituminous.....	381	3	2,623	50
Hart.....	Hart Coal Co.....	Craig.....	Bituminous.....	80	5	1,250	
Baker.....	Langley & Wolf.....	Craig.....	Bituminous.....	159	2	1,107	
Knez.....	Knez Coal Co.....	Craig.....	Bituminous.....	187	1	777	3
Wallihan.....	Wisconsin Coal M. Co.....	Lay.....	Bituminous.....	130	5	625	30
Collom.....	Ute Coal Co.....	Axial.....	Bituminous.....	200	1	585	
Little Bear.....	C. H. Richards.....	Craig.....	Bituminous.....	133	2	325	20
Whitlock.....	Whitlock Coal Co.....	Hamilton.....	Bituminous.....	90	1	300	2
Braut.....	Braut Coal Co.....	Craig.....	Bituminous.....	50	2	241	
Wise.....	C. L. Kern.....	Craig.....	Bituminous.....	21	4	104	
Total Number	of Mines Operated: 10			132.2	26	7,937	

MONTEZUMA COUNTY

School Sec. Lease.....	Freeman & Fielding.....	Mancos.....	Sub-bituminous.....	225	4	3,437	
Cortez.....	Cortez Coal Co.....	Cortez.....	Sub-bituminous.....	240	7	2,333	
Freeman.....	Roy Freeman.....	Mancos.....	Sub-bituminous.....	136	4	1,606	10
Spencer.....	Geo. S. Spencer.....	Mancos.....	Sub-bituminous.....	210	1	512	
Montezuma.....	Reed & Aldred.....	Cortez.....	Sub-bituminous.....	136	2	159	
Total Number	of Mines Operated: 5			200.3	18	8,047	

MONTROSE COUNTY

Happy Canon.....	Happy Canon Coal Co.....	Montrose.....	Sub-bituminous.....	112	3	954	15
Liberty Bell.....	John H. Drott.....	Nuclea.....	Sub-bituminous.....	120	1	400	
Oberding.....	W. J. Oberding.....	Nuclea.....	Sub-bituminous.....	45	1	234	
Pleasant Valley.....	Chas. Rice & Son.....	Nuclea.....	Sub-bituminous.....	92	2	186	6
Missouri.....	Gus Winkler.....	Nuclea.....	Sub-bituminous.....	90	1	167	
Cloverdale.....	Naturita Stores Co.....	Naturita.....	Sub-bituminous.....	25	1	72	
Total Number	of Mines Operated: 6			88.9	9	2,013	

OURAY COUNTY

Tyler.....	Burro Creek Coal M. Co.....	Colona.....	Sub-bituminous.....	120	2	450	
Kennedy.....	P. E. Swayhart.....	Ridgeway.....	Sub-bituminous.....	90	1	249	
Miller.....	C. W. Pace.....	Colona.....	Sub-bituminous.....	90	2	193	
Total Number	of Mines Operated: 3			102	5	892	

TABLE B—Continued
PITKIN COUNTY

Name of Mine	Name of Company	Mine Post Office	Character of Coal	Number of Days Worked	Average No. of Men Employed	Total Number of Tons Produced	Capacity of Mine Per Day, Tons
Marion.....	J. R. Marcketti.....	Carbondale.....	Bituminous.....	240.9	2	3,120	40
Placita.....	Rapini & Hughes.....	Carbondale.....	Bituminous.....	198	4	2,874	40
Total Number	of Mines Operated: 2			212.3	6	5,994	.....

RIO BLANCO COUNTY							
Oldland.....	Meeker Coal Co.....	Meeker.....	Bituminous.....	272	4	2,437	.....
Black Diamond.....	Electric Coal Co.....	Meeker.....	Bituminous.....	227.3	2	1,359	20
Lion Canon.....	Smith & Long.....	Meeker.....	Bituminous.....	303	2	820	25
Nine Mile.....	Thos. D. Foreman.....	Meeker.....	Bituminous.....	227	1	568	.....
McKee.....	Robert McKee.....	Meeker.....	Bituminous.....	90	2	200	.....
Total Number	of Mines Operated: 5			232.3	11	5,384	.....

ROUT COUNTY							
Oak Hills No. 1.....	Moffat Coal Co.....	Oak Creek.....	Bituminous.....	69.7	147	145,823	2,000
Oak Hills No. 2.....	Moffat Coal Co.....	Oak Creek.....	Bituminous.....	57	139	138,815	2,000
Pinnacle.....	Victor-American Fuel Co.....	Oak Creek.....	Bituminous.....	93	168	154,139	2,000
Wadga.....	Victor-American Fuel Co.....	Mt. Harris.....	Bituminous.....	69.5	85	78,129	1,200
Harris.....	Colorado & Utah Coal Co.....	Mt. Harris.....	Bituminous.....	83.2	226	230,228	3,000
Hayden No. 3.....	Hayden Bros. Coal Corp.....	Haybro.....	Bituminous.....	107.9	135	105,273	1,000
Bear River.....	Fraker Coal Co.....	Bear River.....	Bituminous.....	145.5	78	65,510	600
MacGregor.....	McNeill Coal Co.....	MacGregor.....	Bituminous.....	28.6	56	40,989	1,200
Yampa.....	MacGregor.....	MacGregor.....	Bituminous.....	149	27	17,846	400
Regal No. 1 (Wolf Creek.....	Pinacle Kemmerer Fuel Co.....	Pinacle.....	Bituminous.....	68.5	45	16,296	350
Babson.....	Babson Coal Co.....	Hayden.....	Bituminous.....	200	4	3,043	25
Butcher Knife.....	Butcher Knife Coal Co.....	Bear River.....	Bituminous.....	166	4	2,337	20
Seven Points.....	Seven Points Coal Co.....	Oak Creek.....	Bituminous.....	169	1	1,885	75
Route Pinnacle.....	American Coal & Power Co.....	Bear River.....	Bituminous.....	4	21	1,577	350
McCrosky.....	Amos Coal Co.....	MacGregor.....	Bituminous.....	120	5	1,010	40

ROUTT COUNTY—Continued

Mutual or Dry Creek.....	A. C. Linn & Sons.....	Hayden.....	Bituminous.....	105	3	887	.....
Arthur.....	Arthur Coal Co.....	Oak Creek.....	Bituminous.....	211	2	829	10
Ground Hog.....	Ground Hog Coal Co.....	Milner.....	Bituminous.....	110	3	641	25
Block.....	Block Coal Co.....	Steamboat Springs.....	Bituminous.....	125	3	636	50
Monger.....	Monger & Gray.....	Steamboat Springs.....	Bituminous.....	60	3	415	.....
Chergo.....	Tom Chergo.....	Oak Creek.....	Bituminous.....	37	1	282	20
Total Number	of Mines Operated: 21.....	.....	.....	84	1,156	1,006,390	.....

SAN MIGUEL COUNTY

Royer.....	J. S. Royer.....	Norwood.....	Sub-bituminous.....	120	1	321	.....
Keck.....	W. R. Keck.....	Norwood.....	Sub-bituminous.....	69	2	273	6
Gray.....	L. J. Gray.....	Norwood.....	Sub-bituminous.....	90	1	199	2
Total Number	of Mines Operated: 3.....	.....	.....	87	4	793	.....

WELD COUNTY

Columbine.....	Rocky Mountain Fuel Co.....	Serene.....	Sub-bituminous.....	191.5	290	354,560	2,500
Grant.....	Rocky Mountain Fuel Co.....	Frederick.....	Sub-bituminous.....	127.2	72	91,310	1,000
Frederick.....	Rocky Mountain Fuel Co.....	Frederick.....	Sub-bituminous.....	46	3	560	350
Puritan.....	National Fuel Co.....	Dacono.....	Sub-bituminous.....	175.7	216	291,261	1,900
Clayton.....	Clayton Coal Co.....	Erie.....	Sub-bituminous.....	195	201	260,683	2,000
Boulder Valley.....	Boulder Valley Coal Co.....	Erie.....	Sub-bituminous.....	153.5	133	205,795	1,500
Baum.....	Consolidated Coal & Coke Co.....	Dacono.....	Sub-bituminous.....	181.7	96	149,930	1,000
Sterling.....	Grand Junction M. & Fuel Co.....	Dacono.....	Sub-bituminous.....	157.2	86	115,374	1,200
Russell.....	W. E. Russell Coal Co.....	Frederick.....	Sub-bituminous.....	180.5	79	68,583	600
Shamrock.....	Shamrock Coal Co.....	Erie.....	Sub-bituminous.....	197	18	30,757	500
Evans.....	Colorado Dev. & Leasing Co.....	Frederick.....	Sub-bituminous.....	93	52	22,685	400
Eureka.....	Bell Mining Co.....	Erie.....	Sub-bituminous.....	186	22	15,745	.....
Witherbee.....	Franklin Coal Co.....	Fort Lupton.....	Sub-bituminous.....	120	17	3,032	.....
Monroe.....	White House Coal Co.....	Erie.....	Sub-bituminous.....	120	20	3,000	50
White Ash.....	White Ash Coal Co.....	La Salle.....	Sub-bituminous.....	162	3	826	5
Total Number	of Mines Operated: 15.....	.....	.....	172	1,308	1,614,101	.....
Total Number	of Mines Operated in	Colorado: 278.....	.....	186.6	12,211	10,440,387	.....

TABLE C

PRODUCTION OF COUNTIES BY MONTHS—1925

Months	Archuleta	Boulder	Delta	Elbert	El Paso	Fremont
January	179	95,630	11,979	196	44,733	100,840
February	8	51,273	6,186	124	31,365	57,261
March	5	51,663	2,524	109	29,091	23,055
April	29	27,491	3,264	73	20,841	23,537
May	98	19,356	2,645	40	18,243	27,662
June	59	22,393	1,890	48	14,538	31,056
July	117	19,728	3,174	28	15,847	37,091
August	239	47,480	5,391	28	17,688	47,884
September	199	66,276	7,806	118	23,000	63,991
October	106	76,176	6,890	338	36,272	75,648
November	26	59,299	10,421	361	35,026	76,292
December	242	79,173	11,313	545	43,584	82,881
Totals	1,307	615,943	73,483	2,008	330,288	647,198

	Garfield	Gunnison	Huerfano	Jackson	Jefferson	La Plata
January	4,247	56,674	279,611	9,347	16,705	12,471
February	2,282	35,461	156,157	5,056	8,865	8,583
March	2,119	22,311	86,934	2,819	8,482	7,767
April	1,931	26,046	107,398	3,121	6,948	7,061
May	1,824	32,777	119,596	1,736	5,739	5,814
June	1,884	36,725	107,253	1,965	5,255	6,768
July	1,916	41,741	115,730	1,697	2,834	6,454
August	2,002	47,130	177,057	5,228	6,850	8,693
September	2,731	48,315	213,859	6,461	8,206	9,513
October	2,824	58,736	255,821	8,033	10,556	9,855
November	3,652	58,081	265,081	8,702	10,667	10,202
December	3,861	54,816	256,727	9,056	12,241	12,064
Totals	31,273	518,813	2,141,224	63,221	103,348	105,245

	Las Animas	Mesa	Moffat	Montezuma	Montrose	Ouray
January	299,121	19,362	806	831	174	.....
February	231,834	8,831	635	515	102	.....
March	220,846	8,078	434	294	57	.....
April	226,780	6,014	287	269	48	.....
May	243,953	6,690	259	376	8	.....
June	246,674	6,933	247	449	286	.....
July	239,453	7,923	194	462	10	.....
August	197,094	10,824	388	600	155	.....
September	231,821	11,856	379	1,495	102	.....
October	266,520	17,291	441	318	148	.....
November	309,534	16,899	538	407	225	.....
December	304,534	16,680	3,329	2,031	698	892
Totals	3,018,164	137,381	7,937	8,047	2,013	892

	Pitkin	Rio Blanco	Routt	San Miguel	Weld	Total
January	1,116	699	121,016	.....	248,556	1,324,293
February	568	388	81,259	.....	143,648	830,401
March	432	382	22,065	.....	132,921	622,388
April	176	337	26,509	.....	77,907	566,067
May	142	227	55,568	.....	62,491	605,244
June	293	179	54,672	.....	61,184	600,751
July	246	148	58,352	.....	50,752	603,897
August	361	373	103,957	.....	85,014	764,436
September	538	446	101,087	.....	137,079	935,278
October	570	564	126,902	.....	195,329	1,149,338
November	783	681	122,158	.....	179,704	1,168,739
December	769	960	132,845	793	239,516	1,269,555
Totals	5,994	5,384	1,006,390	793	1,614,101	10,440,387

TABLE D

SHOWING INCREASE AND DECREASE BY COUNTIES, 1924-1925

Counties	Tons Produced 1924	Tons Produced 1925	Increase	Decrease
Archuleta	2,419	1,307	.....	1,112
Boulder	682,541	615,943	.....	66,598
Delta	88,547	73,483	.....	15,064
Elbert	2,527	2,008	.....	519
El Paso	360,811	330,228	.....	30,583
Fremont	698,238	647,198	.....	51,040
Garfield	22,758	31,273	8,515	.....
Gunnison	469,081	518,813	49,732	.....
Huerfano	2,005,223	2,141,224	136,001	.....
Jackson	69,787	63,221	.....	6,566
Jefferson	127,616	103,348	.....	24,268
La Plata	92,927	105,245	12,318	.....
Las Animas	3,157,988	3,018,164	.....	139,824
Mesa	136,694	137,381	687	.....
Moffat	6,808	7,937	1,129	.....
Montezuma	6,815	8,047	1,232	.....
Montrose	2,790	2,013	.....	777
Ouray .....	.....	892	892	.....
Pitkin	5,941	5,994	53	.....
Rio Blanco	4,873	5,384	511	.....
Routt	904,876	1,006,390	101,514	.....
San Miguel	322	793	471	.....
Weld	1,651,506	1,614,101	.....	37,405
Totals.....	10,501,088	10,440,387	.....	.....

Decrease, 1925 60,701

TABLE E

COKE PRODUCED IN 1925 BY COMPANIES AND COUNTIES

Companies	Total No. of Ovens Used	Total Tonnage	Counties	Total No of Ovens Used	Total Tonnage
American Smelting and Refining Co..	210½	105,957	La Plata	27½	12,677
Colorado Fuel and Iron Co.	222	539,911	Las Animas ..	285	143,534
			Pueblo	120	489,657
Totals.....	432½	645,868		432½	645,868

REMARKS:

Average number of days worked at the coke ovens 328
 Average number of men employed at the coke ovens..... 201
 Number of tons of coal made into coke..... 1,068,365

TABLE F
SHOWING BY COUNTIES COAL PRODUCTION OF 1925 IN PREPARED SIZES

Counties	Mine Run	Lump	Nut	Pea	Slack	Total Tons
Archuleta	255	774	.....	278	.....	1,307
Boulder	72,505	256,166	48,240	3,305	235,727	615,943
Delta	2,973	30,553	25,448	571	13,992	73,483
Elbert	438	1,085	153	76	256	2,008
El Paso	97,699	92,954	24,154	437	114,984	330,228
Fremont	54,871	308,830	102,944	25	180,528	647,198
Garfield	21,780	5,877	3,129	447	31,240	31,273
Gunnison	*406,790	66,551	15,284	357	29,731	518,813
Huerfano	494,925	759,372	308,693	180,490	397,144	2,141,224
Jackson	6,483	22,755	13,651	.....	20,332	63,221
Jefferson	36,844	20,412	7,300	500	38,292	103,348
La Plata	86,947	8,302	3,246	941	5,809	105,245
Las Animas	1,226,519	431,597	192,679	20,738	1,146,631	3,018,164
Mesa	63,779	40,461	10,099	1,541	21,501	137,381
Moffat	7,048	717	172	.....	.....	7,937
Montezuma	3,681	3,332	.....	.....	1,034	8,047
Montrose	1,238	724	30	.....	21	2,013
Ouray	892	.....	.....	.....	.....	892
Pitkin	5,994	.....	.....	.....	.....	5,994
Rio Blanco	937	3,115	942	19	371	5,384
Routt	179,375	473,701	130,067	18,164	205,083	1,006,390
San Miguel	793	.....	.....	.....	.....	793
Weld	86,668	707,027	178,335	16,501	625,570	1,614,101
Totals.....	2,859,434	3,235,005	1,064,566	244,336	3,037,046	10,440,387

*84,122 tons Anthracite and 53,742 tons Semi-anthracite coal included.

NOTE.—In the Slack, some mines include Pea and others Nut and Pea coal. The Egg and Grate coal is included in the Nut coal. (The Egg and Grate coal reported is from Routt and Weld Counties.)

COAL PRODUCTION OF COLORADO FROM 1873 TO 1925, INCLUSIVE

Year	Tons	Year	Tons
1873.....	69,977	1899.....	4,826,939
1874.....	87,372	1900.....	5,495,734
1875.....	98,838	1901.....	6,021,405
1876.....	117,666	1902.....	7,522,923
1877.....	160,000	1903.....	7,775,302
1878.....	200,630	1904.....	6,776,551
1879.....	322,732	1905.....	8,989,631
1880.....	375,000	1906.....	10,308,421
1881.....	706,744	1907.....	10,965,640
1882.....	1,161,479	1908.....	9,773,007
1883.....	1,220,593	1909.....	10,772,490
1884.....	1,130,024	1910.....	12,104,887
1885.....	1,398,796	1911.....	10,197,595
1886.....	1,436,211	1912.....	11,016,948
1887.....	1,791,735	1913.....	9,268,939
1888.....	2,185,477	1914.....	8,201,423
1889.....	2,400,629	1915.....	8,715,397
1890.....	3,075,781	1916.....	10,522,185
1891.....	3,512,632	1917.....	12,515,305
1892.....	3,771,234	1918.....	12,658,055
1893.....	3,947,056	1919.....	10,406,543
1894.....	3,021,028	1920.....	12,514,693
1895.....	3,339,495	1921.....	9,141,947
1896.....	3,371,633	1922.....	10,003,610
1897.....	3,565,660	1923.....	10,336,735
1898.....	4,174,037	1924.....	10,501,088
		1925.....	10,440,387

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The Crested Butte Coal Company
“Rusty Coal”

The Baldwin Fuel Company
“Baldwin Coal”

FRANK BULKLEY, President
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MINE DISASTERS AND MISCELLANEOUS FATAL ACCIDENTS, 1925

REPORT ON THE FIRE AT THE EMPIRE MINE, MARCH 26TH TO APRIL 15TH, 1925

On April 26th, 1925, at 3:00 a. m. a raging fire was discovered by the Fire Boss in the Empire Mine. This mine is operated by The Empire Coal Mining Company, and is situated one-half mile Northwest of Aguilar, Colo.

The fire was discovered in the 1st and 2nd cross or South Slopes, and was so fierce, that the smoke from it had ascended the entries for 900 feet against a volume of 20,000 cu. ft. of air. The Fire Boss stated that the electric lights on the slope parting, a short distance outside of where smoke was encountered, went out as he was approaching them.

On the day previous to the fire, at 4:00 p. m., one shot was fired in 4½ cross, off 3rd North. Permissible powder being used. On the night of the 25th, a small electric pump, located in 3rd North near intersection of 2nd dip was in operation.

Accompanied by Deputy Inspector Samuel Andrews, I arrived at the mine at 11:30 p. m., March 26th, 1925. Robert McAllister, G. B. Parker, and other employes of the Colorado Fuel & Iron Co. were there with the C. F. & I. Rescue Car, also James Dalrymple, Jr., of The Hercules Powder Co., Deputy State Inspector of Coal Mines Hugo H. Machin, Joseph Cochrane, of the Mutual Insurance Co., and several employes of the Victor-American Fuel Co., were already on the ground fighting the fire.

Upon reaching the fire, accompanied by several others, conditions were considered so serious that it was decided to seal the mine. Preparations being already underway, making hitches for the walls. While this work was being done, the smoke receded for some distance. It was then decided to go ahead fighting the fire for 24 hours. The question of sealing being delayed until then. Some headway had been made at the expiration of this period and we determined to keep on fighting.

The morning shift on the 28th reached the 3rd North Entry, where the pump was located and found that the planks upon which the pump was set were not burned. The fire, however, had passed over the pump, traveling north and south on 3rd and 4th North Entries, also west into 1st and 2nd dips and adjacent rooms.

Room 1, off 3rd cross off 3rd North is connected with 2nd cross at a point 175 ft. east of 3rd North. Upon reaching this connection it was decided to seal it off temporarily, in order that the

fire might be conquered before reaching the old and new slope workings, which was accomplished on the 11th of April, when attention was turned to connection of room 1, 3rd cross off 3rd North. This section includes two cross entries and eighteen rooms which had been temporarily sealed for over two weeks and after 120 hours of continual fighting, it was decided to seal it off with concrete walls. This work has been completed in a very satisfactory manner and the production of coal has been resumed on a small scale.

Self-contained Breathing Apparatus were used on two or three occasions, but without the Burrell Gas Masks, the mine, as a whole, would have to have been sealed. The Victor-American Fuel Company, being the only coal company in this state having the gas masks, willingly gave us their whole supply.

CLASSIFICATION OF MINE, SEAM BEING WORKED, AND ITS SURROUNDINGS

The mine is a gaseous one. The seam being worked is known as the Walsen or Peerless, overlaid by the Robinson seam at a distance of 90 feet. This seam is so gaseous that no pillars are being pulled in the Empire mine. Pillar work will not be started until all other coal is mined. Extra large pillars are being left and a boundary air course being driven for this purpose. The roof is a strong dense sandstone, very irregular in inclination and, wherever brushing is done to get the desired height and holes drilled deeper than regular line of roof, a continual bleeding of gas is found in considerable quantity.

The Royal Mine, which is one-half mile distant and working the same seam under same conditions, except that pillars are pulled as development advances, gives off one million cubic feet of gas every twenty-four hours, 50 to 60% of which comes from the Robinson seam.

On April 20th I called for a conference with Robert McAllister, G. B. Parker, Finlay McCallum, employes of The Colorado Fuel & Iron Company, Joseph Cochrane, Mutual Insurance Inspector, James Dalrymple, Jr., Hercules Powder Co., all volunteers and leaders in fighting this fire. John Hoss, Batiste Bertolinia and David Dalrymple, the Superintendent, Mine Foreman and Fire Boss respectfully, of the Empire Mine, and Hugo H. Machin, Deputy State Inspector of Coal Mines, to determine the cause of the fire and point of origin. Nine of the ten conferees agreed that the cause was an electric arc igniting a body of gas, present either through a cave on return of electric wires short-circuiting the ventilation and allowing gas to come back over the wires, or from a cave on the intake of the wires and carrying the gas directly to the electric wires. This finding was based on two facts. The great amount of gas encountered in roof and

the rapidity with which fire traveled during the first thirty-six hours of its existence, which was more than it traveled during a period of twenty days following.

In concluding, I wish to in my humble way express my appreciation first, to every man who took a real part in saving the Empire Mine. It took experience, confidence, perseverance and leadership to face the dangers encountered to be able to take advantage of the different conditions as they appeared. Second, to The Colorado Fuel & Iron Company for the use of their rescue car, including all that goes with it, including the hospitality and generosity of Baldy Parker and to The Victor-American Fuel Company for the liberality and kindness in turning over to us their gas masks, which must be credited with being one of the most important factors in our success.

JAMES DALRYMPLE,
State Inspector of Coal Mines.

Box 91, Walsenburg, Colo.,
June 21, 1925.

Mr. James Dalrymple,
State Inspector of Coal Mines,
Denver, Colorado.
Dear Sir:

An explosion of fire damp occurred at 5:45 p. m., June 19th, 1925, at the Gordon Mine, situated about 7 miles northwest of Walsenburg. The mine is owned and operated by the Gordon Coal Co., of Walsenburg. I was notified of the occurrence at 8:45, and arrived at the mine at 9:30 p. m., and accompanied by a workman employed at the mine, by the name of Frank Clark, I entered the mine after placing a man in charge of the fan, and another guard at slope entrance.

Arriving at 8th north parting, Ralph T. Poli, Supt., and his son, Leon Poli, who informed me that two of the bodies had been found and that the rest of the rescue party were searching for the other man. At 1st cross off 8th North, we met George Gregory, mine foreman, Fred Bellotti, fire boss, and the rest of the party. I instructed Bellotti and three other men to search for James Moran on the return side, who shortly afterward they found dead in the neck of room 5, 1st cross, which is on the return side of air current. Before taking the bodies outside, I inspected all the stoppings and curtains from near the outside of rock tunnel, to the face of 8th north, and also up into face of both pairs of cross entries. Most all the stoppings blown out were of temporary character, consisting of canvas and boards.

At the face of 1st cross and air course, and 2nd cross and air course, a strong explosive gas cap was detected about 2 feet from roof. A slight cap of about $\frac{3}{8}$ inch was indicated in air current from 2nd cross back to 1st cross, to where air current enters down into return. The rescue party closed up all the stoppings that had been blown out, using canvas and boards. A very weak movement in the air current could be felt in 1st cross, and the fumes of after damp were strong through the entire length of of the entry.

James Moran's body was found at the neck of room 5, 1st cross. Harvey Moyer, about 40 feet back from last cross cut in 1st cross in air course. Jack Stemberger was found lying between machine truck and right rib side of 1st cross, 17 feet from face. A Sullivan mining machine CE7, closed type, was under the coal at face of 1st cross, having under-cut $\frac{2}{3}$ of the way across face of entry. Controller of machine was in neutral and power cable was properly attached. There were no signs of arcing on any of the connections or controller.

Face of 1st cross was 12 feet ahead of last ventilating cross-cut. Face of air course 35 feet in advance of last crosscut. Gas transpires freely from floor and coal at face in both places. George Gregory, mine foreman, was overcome by the afterdamp, and was taken out of the mine in a semi-conscious condition. The three bodies were brought to the surface at 12:45 a. m. the following morning, and all power cut off from the mine and no one allowed to enter.

I made my second visit to the seat of the explosion and other parts of the mine on Saturday morning, 7:30 a. m., accompanied by Ralph Poli, and Fred Belotti, again inspected those parts of the mine affected by the explosion. The air current was measured at several places and the following are the results: Intake on main slope, 37,410 cubic feet. Intake to 8th north at entrance to rock tunnel, 10,420 cubic feet. Last crosscut, 8th north beyond rock tunnel, 1,800 cubic feet. Last crosscut, 8th north, no reading.

These readings go to show plainly that the quantity of air circulating in these places even when all crosscuts are closed up by means of news canvas, is far below what is necessary to dilute the quantity of gas given off. I am inclined to think that the men who were cutting around curve to 1st cross air course had the machine truck under the curtain that diverted the air current up to 1st cross. At least, I think that the curtain was torn, broken, or turned up in such a manner that most of the air that should have reached the last crosscut at face of 1st cross entry, short-circuited at this point. The gas exuding at face of 1st cross and air course must have filled the face for a considerable distance back, from roof to floor, and machine laboring hard, cutting

in bottom, made sufficient spark from bit points to ignite an explosive mixture. The force of the blast was strongest about one-half of the way back from face on both entries.

No work of any kind is to be done in the mine except pumping and working on stoppings. Before being allowed to operate, proper doors will be placed between cross entries and air courses, and 15,000 cubic feet of air passing through last crosscut, 8th north, and at least 8,000 cubic feet to last crosscut in each pair of cross entries.

Yours respectfully,

(Signed) SAMUEL ANDREWS,

Deputy Inspector, District No. 3.

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LIST OF FATAL ACCIDENTS WHICH OCCURRED IN THE
COAL MINES OF COLORADO DURING THE
YEAR OF 1925

- (1)—January 9—AMELIA LINZA, Italian, machine miner, experience 7 years, age 30 years, single, employed by The Bear Canon Coal Co., at the Bear Canon Mine, Las Animas county, was injured by a fall of rock on January 2, and died on the above date. Deceased was working single in a room that had been cut and shot the night before. He was loading a car when a rock fell from a slip which was flush with the face of the coal. Apparently deceased had not sounded the roof before starting to work. It is possible had he done this, or set a prop between the car and coal face, the accident would have been avoided. However, accident is classed as unforeseen and unavoidable.
- (2)—January 13—G. W. NELSON, American, acting mine foreman and miner, experience 40 years, age 64 years, married, 11 children, employed by F. W. Bloom at the Bloom mine. Montezuma county, was killed by a fall of rock. Deceased was in the act of cutting at the coal face when a rock fell from the roof killing him. Deceased is charged with the responsibility of the accident, because he did not test the roof or place timbers to support it.
- (3)—January 14—DAN MORELLI, Italian, pick miner, experience 15 years, age 33 years, married, 3 children, employed by The Colorado Fuel & Iron Co., at the Berwind Mine, Las Animas county, by a fall of rock. Deceased and partner were working on a dip, extracting room neck stumps and chain pillars. It was the system here to split a portion of the chain pillar and extract the remaining sides on the retreat. At the point of accident, the pillar had been split and deceased had prepared a place on one of the sides to work by timbering up the bony and drawslate, this being done the roof was tested and considered safe. He and his partner started loading a car when a large piece of bony and drawslate fell on him from an invisible slip, causing such injuries that he died a few hours later. Deceased was considered a good and careful workman, and the accident was unforeseen and considered unavoidable.
- (4)—January 21—JOHN BORSUK, Russian, machine miner, experience 11 years, age 33 years, single, employed by the W. E. Russell Coal Co., at the Russell Mine, Weld county, came to his death by electrocution. Deceased had taken his machine to a slant road where it was kept when not in use.

The accident occurred while he was putting on tape on two leads to the machine. It seems to me that deceased may have made a contact with his right hand against the two set screws on top of the feed plug from the cable reel to the machine motor, by examining the said plug, such accident is possible as by placing your hand over the plug and pressing down, the skin of the hand, will come against the two screws. Deceased was blameless in this accident and if responsibility is charged it may be on the Sullivan Iron Clad C. E. No. 7 type machines in not properly insulating the set screws.

- (5)—January 30—JAMES PRICE, American, driver, experience 8 years, age 24 years, single, employed by The Colorado Fuel & Iron Co., at the Robinson No. 2 Mine, Huerfano county, was killed by being pinned under a moving car. Deceased was pulling a car of coal to a side track when he accidentally fell off the gun and the car was partly drawn over him. The car was spragged in all four wheels and mule hooked on by shaft and gun when found. Deceased was known as a steady, careful and experienced driver and his death was caused by a misadventure for which no one can be held responsible.
- (6)—January 30—ALEX OMELENCHUK, Russian, company man, experience 9 years, age 32 years, single, employed by The Colorado Fuel & Iron Co., at the Robinson No. 2 Mine, Huerfano county, was killed by a fall of rock. Deceased was apparently in the act of setting a prop when a slab of rock fell on him killing him. The rock broke along the upper rib line and parted with a smooth slip line which was not visible. Deceased was not aware of the condition of the roof at this point and neither he nor any other person can be held responsible for the accident.
- (7)—February 4—JOE KOSS, Austrian, pick miner, experience 35 years, age 56 years, employed by The Bear Canon Coal Co., at the Bear Canon Mine, Las Animas county, was killed by a fall of rock. Deceased and his partner were breaking a new place in a pillar and were loading a car when a rock gave way from a slip breaking off with the face of the coal. According to evidence, the roof had been tested and found in good condition. The accident was unforeseen and is classed as unavoidable.
- (8)—February 13—STEVE NEZES, Greek, pick miner, experience 10 years, age 33 years, single, employed by The Moffat Coal Co., at the Oak Hills Mine, Routt county, was killed by a fall of coal that bumped out while deceased was in the act of mining. The roof was good and solid and the place was well timbered. The accident was unforeseen and classed as unavoidable.

- (9).—February 21—E. CHAVEZ, Mexican, machine miner, experience 12 years, age 26 years, single, employed by The Rocky Mountain Fuel Co., at the Columbine mine, Weld county, was killed by a fall of coal and rock at the face of a stump. The seam at this mine is about 11 feet thick which is taken down all except 15 to 24 inches, which is left for a roof. Above this top coal is about three or four feet of rock and on top of that is a four foot seam of coal. Width of pillar is about 60 feet (two 12-ft. cuts are taken out of pillar by machine), the remaining stumps of coal are taken out by pick work. Deceased and his partner were taking out stumps, the former picking down coal on the inby end and he was warned by the latter not to work on that side, but he persisted. The place was well timbered and the mine foreman had visited the place three time during the shift, on his second visit he examined the stump and ordered three more props set up which was carried out. However, a fall of coal and rock followed a few minutes later, which caught deceased and crushed him to death. After the fall it was disclosed that the roof up to the four feet of coal overlying the rock was potty and indicated slips which could not be seen by the men. The accident was unforeseen and is classed as unavoidable.
- (10).—March 2—EARL S. WRIGHT, American, electrician, experience 4 years, age 38 years, married, four children, employed by The Canon-Reliance Co., at the Canon Mine, Fremont county, came to his death by electrocution. At the time of the accident he was repairing a 440 volt power line on an entry and the switch controlling the power in this part of the mine was open. One of the machine men came and put in the switch to get power for cutting, not knowing any one was working on the line. Evidently deceased came in contact with an uninsulated part of the line and the switch being put in, gave him the fatal shock. The sign "Man Working on Line" was not hung on the switch box as required by the regulations of this mine. Mr. Wright was considered a careful and efficient worker with many years of practical experience as an electrician, but evidently he neglected to hang up the warning. Accidents of this nature can be avoided in this mine only by the strictest observance of the safeguarding regulations.
- (11).—March 3—WILLIAM BONE, American, company man, age 21 years, employed by The Royal Fuel Co., at the Royal Mine, Las Animas county, was injured February 20, 1924, by being squeezed between a car and weight-house and severely injured and died over a year later on the above date. There was little hope from the start that he could recover as an infection set in, which finally terminated in death. Full de-

tails of the accident at this date are not at hand. However, according to Section 163 of the Coal Mining Laws, this accident is charged to the industry although over a year elapsed before he died.

- (12)—March 15—L. C. PATTERSON, American, barn boss, age 42 years, married, two children, employed by The Colorado Fuel & Iron Co., at the Morley Mine, Las Animas county, was fatally injured by being kicked by a mule on the 7th of the month and died on above date. It was an unforeseen accident for which no one could be held responsible.
- (13)—March 13—JOHN R. JENKINS, American, assistant mine foreman, experience 44 years, age 59 years, married, three children, employed by the Colorado Fuel & Iron Co., at the Berwind Mine, Las Animas county, was killed by being run over by a trip of loaded cars. The accident occurred at quitting time and it was customary for him and a few company men to arrange for the man-trip and ride out of the mine. For some reason, instead of waiting for the man-trip, he boarded the motor. The motorman protested that this was against the rules, but he insisted that it did not apply to him as he was a mine official, and climbed on top of the motor. The motorman being very busy with his trip as he had a heavy grade to make, did not see him any more. A car got off the track and he stopped the trip and noticed that Jenkins was not there, but thinking that he got off of his own accord, paid no further attention to the matter. A pump man happened to follow the trip to examine the water pipe line, and found deceased dead and badly mangled. As there was no eye witness to the accident, the cause of his fall off the car cannot be determined. Anyway the accident was due to a violation of the law by deceased.
- (14)—March 9—E. HERNANDEZ, Mexican, machine miner, experience 2 years, age 41 years, married, 5 children, employed by the Victor-American Fuel Co., at the Chandler Mine, Fremont county, was injured February 12th, by a fall of rock and died on the above date. Deceased was shoveling coal at the head of the roadway when a rock fell down from the roof. The place was fairly well timbered and he was considered a careful and competent man to keep his place secure. He was ready to put in a prop at the particular spot where the rock fell as soon as he had loaded sufficient coal out to make room for it. The accident is classed as unavoidable.
- (15)—March 19—DORTEO PEREZ, Mexican, pick miner, experience 3 years, age 35 years, married, 5 children, employed by The Colorado Fuel & Iron Company, at the Toiler Mine, Las Animas county, was killed by a fall of rock. Deceased and partner were taking a corner off a slant to make a haulage

road. When this was completed, deceased knocked a prop out which was set about eight feet away from where they were working and released a rock which fell on him and killed him instantly. The accident was unforeseen and is classed as unavoidable.

- (16)—March 23—E. N. AGUILAR, Mexican, pick miner, experience 18 years, age 35 years, married, 3 children, employed by The Colorado Fuel & Iron Co., at the Ideal Mine, Huerfano county, was killed by a fall of rock. Deceased was working single, extracting a pillar and exposed a slip. He was in the act of setting a prop when the rock came down on him. The place was well timbered, and the accident was unforeseen and is classed as unavoidable.
- (17)—April 21—E. P. DURAN, American, pick miner, experience 26 years, age 47 years, married, two children, employed by The Three Pines Coal Co., at the Three Pines Mine, Las Animas county, was killed by a fall of rock. Deceased was engaged in breaking off a room neck and was shoveling coal to the track when a rock gave way from a slip. Apparently he had not tested the roof before starting work, as only a few minutes elapsed after he entered his working place that the accident occurred. It was unforeseen and is classed as unavoidable.
- (18)—April 24—GEORGE DORCHOFF, Bulgarian, machine miner, experience 13 years, age 44 years, widower, two children, employed by The Bell Mining Co., at the Eureka Mine, Weld county, was killed by a fall of rock. Deceased was working in room pillar. It is the custom here, when taking out a pillar, to first take out the top coal clear to the rock roof. Deceased had taken out two props and taken down the top coal, leaving an open space between timbers and coal face. He was in the act of removing some of the coal at the bottom when a large rock fell on him, killing him instantly. Evidently deceased considered the roof safe as he did not timber it but continued to work under it. It was a case of faulty judgment, however, he is not held responsible for the accident.
- (19)—April 24—SCHUYLER HODSON, American, pick miner, experience 8 years, age 54 years, widower, two children, employed by The Ross Coal Co., at the Horace Mine, Gunnison county, was killed by a fall of rock. Deceased had just cleaned up a brushing shot and had pulled down all loose rock and sounded the roof. He was in a kneeling position mining coal with a pick when a rock fell from the top and struck him. The accident is classed unavoidable.
- (20)—May 1—JOHN ZDUNICK, Austrian, machine runner, experience 13 years, age 36 years, married, two children, em-

ployed by The American Smelting & Refining Co., at the Boncarbo Mine, Las Animas county, was instantly killed by a fall of rock. Deceased was engaged in setting props at a point where the tracks had been moved when a rock from an invisible slip gave way with the above results. The rest of the place was well timbered. The accident was unforeseen and is classed as unavoidable.

- (21)—May 5—IDRIS ROBERTS, Welsh, fire boss, experience 25 years, age 42 years, married, two children, employed by The Canon-Reliance Coal Co., at the Canon Mine, Fremont county, was killed by a runaway motor and some empty cars. Deceased was running an electric motor pulling several empty cars. He was preceded by another motor pulling empty cars and when at the top of an entry, this motorman lost control of his motor, owing to faulty brakes, it ran back and collided with the motor of deceased and struck him and he was crushed between front of motor and car next to it. This accident could have been avoided had the motor brakes been in good condition.
- (22)—May 26—WM. MONTEITH, Scotch, shot firer, experience 25 years, age 38 years, married, one child, employed by The Rocky Mountain Fuel Co. at the Columbine Mine, Weld county, came to his death by an explosion of powder. He was making up a charge of powder in a crosscut entry, which is used as a powder station. While in the act of inserting an electric detonator in a stick of powder, it exploded, injuring deceased so severely that he died a few hours later. The cause of the explosion is not known, it might have been caused by a defective detonator or some other element. The accident is not charged to deceased, but to the hazard of his work.
- (23)—May 29—SAM CHAVEZ, Mexican, pick miner, experience five years, age 23 years, married, one child, employed by The Calumet Fuel Co., at the Calumet No. 1 Mine, Huerfano county, was injured February 24, 1925, by a fall of rock and died on the above date. We was working in a room pillar loading coal. At the head of the roadway he saw a slab of rock which he attempted to pull down and failed. Instead of propping the rock, he left it and went on with his work and so was caught when it released itself a little later. The accident was due to his own lack of caution.
- (24)—June 9—EMILIO BACA, American, railroad car dropper, experience 10 years, age 40 years, married, three children, employed by The Huerfano Coal Co., at the Ludlow Mine, Huerfano county, was crushed to death in a collision of two cars. Deceased was lowering an empty railroad car from one track to another and in some way was caught between

the car he was lowering and the one that was left standing on the lower track. Evidently he miscalculated the position of the car on the lower track for when he lowered his car he realized that the two cars would collide and in attempting to free himself from his position at the lever brake on the end of the car, he was caught between them with fatal results. The accident was unforeseen and therefore unavoidable.

- (25)—June 10—STEVE NAGY, Hungarian, machine miner and runner, experience 17 years, age 37 years, married, four children, employed by The Colorado Fuel & Iron Co. at the Cameron Mine, Huerfano county, was killed by a fall of rock. He was in the act of pulling down rock at the face of the room when it gave way, in some manner he slipped under it and was struck and injured so severely that he died instantly. Accident was a mishap for which no one could be held responsible.
- (26)—June 18—J. R. FOREFIELD, American, pumpman, experience 40 years, age 48 years, married, two children, employed by The Victor-American Fuel Co., at the Chandler Mine, Fremont county, was injured June 15th by being struck by a haulage rope and died on the above date. Deceased was walking down the main slope to work. He stopped at the side track to let a trip pass when the rope slipped off the pully causing it to swing and strike his leg, from the effects of which he dies three days later. The deceased was considered a careful man, fully capable of taking care of himself and the accident was a mischance for which no one could be held responsible.
- (27)—June 19—JAMES MORAN, American, machine runner, experience 23 years, age 43 years, married, two children, together with
- (28)—JACK STEMBERGER, Austrian, machine helper, experience seven years, age 30 years, married, no children, and
- (29)—HARVEY MOYER, American, machine runner, experience 18 years, age 39 years, married, three children, all employed by The Gordon Coal Co. at the Gordon Mine, Huerfano county, were killed by an explosion of firedamp. See detailed report on page 69 of this report.
- (30)—June 26—PAUL SMITH, German, pick miner, experience 18 years, age 49 years, single, employed by The Crested Butte Anthracite Mining Co., at the Smith Anthracite Mine, Gunnison county, was killed by a fall of rock and coal. Deceased was mining coal at a room face when without any warning a pot rock fell bringing down coal, covering him and smothering him to death. The place was well timbered and the accident was unforeseen and is classed as unavoidable.

- (31)—July 3—ROCCO CESSERICH, Slav, pick miner, experience 13 years, age 32 years, single; and,
- (32)—FRANK PANDOLEI, Italian, pick miner, experience four years, age 35 years, single, employed by The Colorado Fuel & Iron Co., at the Toller Mine, Las Animas county, were instantly killed by a fall of rock. Deedents were taking a skip off a crosseut between two rooms for haulage purposes. They were loading a car when a rock gave way from an invisible slip paralleling the left side of the crosseut, striking both. The accident is classed as unforeseen and therefore unavoidable.
- (33)—July 27—BENARDO ALVARDO, Mexican, rock man, experience two and one-half years, age 30 years, married, three children, employed by The Victor-American Fuel Co. at the Chandler Mine, Fremont county. Deceased was cleaning the track on the main slope and was struck by a trip of empty cars landing into the slope parting, some of the cars passing over his body. He was considered a good workman and capable of taking care of himself. It seems however, he did not hear or see the trip coming and the accident is classed as unforeseen, and no one can be charged with its responsibility.
- (34)—August 4—W. J. LEE, American, night watchman, no underground experience, age 60 years, married, seven children, employed by The Hayden Bros Coal Corp., at the Hayden No. 3 Mine, Routt county, was killed by falling down a shaft. One of his duties was to meet the train to receive the mail, but on the night of the accident he failed to turn up. Later he was found dead and badly smashed at the bottom of the shaft. Why he went there no one was able to say. However, he approached the shaft and it being dark did not see the opening which was not equipped with gates, but closed by bars being laid across it, which are raised to let the cage land. Undoubtedly the bars were left raised and consequently deceased fell down. The mine management is responsible for this accident in not properly equipping the landing with safety gates.
- (35)—August 13—VINCENTO PEDRON, Italian, timberman, experience 25 years, age 64 years, single, employed by The Victor-American Fuel Co. at the Delagua mine, Las Animas county, was injured on July 31st by falling under a pit car and died on the above date. Deceased was acting as man trip driver in connection with his regular work as timberman. On the day of the accident he was landing his man trip and cut loose the mule while his car was still running on a one and one-half per cent grade to a level place. He reached out for the line of the mule to prevent him from running up the slope with his harness on. The mule lunged forward,

causing deceased to fall off the car to the middle of the track and he was run over. The accident was a mischance for which no one could be held responsible.

- (36)—August 15—JOSE G. GOMEZ, Mexican, driver, experience six years, age 33 years, married, two children, employed by The Oakdale Coal Co., at the Oakdale mine, Huerfano county, was crushed to death between a loaded car and leg of set of timbers. Deceased was gathering loaded cars from room pillar and while there was sufficient clearance room on one side of the moving car, in some unaccountable manner he was caught between it and the set of timbers. There was no eye witness to the accident and he was well experienced in his work, and it was due, no doubt, to a mischance for which no one could be held responsible.
- (37)—August 22—WILLIAM OWENS, Welsh, pick miner, very little experience, age 51 years, single, employed by The Rapid Creek Mining, Tunnel & Power Co., at the Genter Mine, Gunnison county, was killed by an explosion of gas. At 8 a. m. on the above date, deceased and four other men entered the tunnel with their carbide lamps before the place had been examined by acting fire boss. Before reaching the face of the tunnel a body of gas was ignited by the open lights and the explosion that followed struck deceased, from the effects of which he died a short time after. The other men were able to escape the worst of the explosion, but all were more or less burned about their faces and necks. Deceased came to his death through no fault of his, but through the gross negligence of the acting mine foreman and fire boss who had no certificate for either position. The mine had been giving off methane and it was the duty of the mine management to take no chances by allowing men to enter the tunnel without first having made it safe to enter.
- (38)—September 7—WILFORD SCOTT, English, rope rider, experience 10 years, age 25 years, single; and,
- (39)—MELTON B. THOMAS, American, motorman, experience nine years, age 23 years, married, no children, employed by The Midwest Coal Co., at the Midwest Mine, Mesa county, were both electrocuted. The investigation showed that the big power wire which had been used for lights was disconnected, but 15 inches of it was left hanging and came in contact with the telephone wire running underneath it, burned the insulation and charged it with 440 volts. The telephone was loose and lying on the signal bell line and when Scott reached up to give the signal he received a shock. Thomas, it seems, also took hold of the signal bell line and was killed. The accident was due to carelessness in not attending to the wiring.

- (40)—September 15—EULALIO RICO, Mexican, pick miner, experience three years, age 32 years, single, employed by The Caliente Coal Co., at the Ravenwood Mine, Huerfano county, was killed by a fall of rock. Deceased was working single, driving a room. Here the coal was overlaid with an 18-inch band of draw slate which was brushed along the road and held up by timbers on the gob side. There was no eye witness to the accident. Evidently deceased was in the act of setting a prop under a piece of rock which gave way from an invisible slip and fell on him, killing him. The place was well timbered and the accident was unforeseen and no one can be blamed for it.
- (41)—September 25—NICK DE PEDRO, American, machine miner, experience five years, age 19 years, single, employed by The Big Four Coal & Coke Co., at the Centennial Mine, Boulder county, was killed by a fall of rock and coal. Deceased and three other miners were extracting pillars and had undercut the place and shot the coal down. Deceased was loading coal when he heard a crashing or bouncing of coal left standing. He tried to get out of the way, but the fall caught him and injured him so severely that he died instantly. The place was well timbered and the accident was unforeseen and is classed as unavoidable.
- (42)—September 28—RALPH F. McKINLEY, American, foreman, experience five years, age 30 years, married, two children, employed by The Butcher Knife Coal Co., at the Butcher Knife Mine, Routt county, was killed by a fall of draw slate. Deceased was loading a car at the face of his room when a piece of draw slate fell on him. Apparently he was in the act of setting a prop as he had made a cap piece and a prop was lying beside him. There was no eye witness to the accident and it is not known if he used his best judgment in protecting himself. The place was well timbered.
- (43)—September 29—TONY NIVITOSKY, Pole, pick miner, experience three years, age 35 years, single, employed by The Colorado Fuel & Iron Co., at the Morley Mine, Las Animas county, was killed by an empty car running over him. Deceased and his partner had assisted in putting two empty cars, that had been derailed, on the track, and he started back to his place, ahead of the front car, while his partner was behind the trip. There was no evidence given to show how deceased got under the first car. The first his partner noticed was that his light had disappeared. The bell line on the plane was out of order and had been for several days. It is possible had the signal bell been working the accident might have been avoided.
- (44)—October 7—MIKE ARCHULETA, Spaniard, pick miner, experience a few years, age 39 years, single, employed by

Freeman & Fielding, at the Freeman Mine, Montezuma county, was killed by a fall of rock. The accident was due to neglect in timbering his place although it was known that the roof was bad. The accident would have been avoided had a certified man been employed as mine foreman to see that the working places were kept in safe condition.

- (45)—October 19—JOHN SISNEROS, American, pick miner, experience six years, age 27 years, married, two children, employed by The Huerfano Coal Co., at Ludlow Mine, Las Animas county, was killed by a fall of rock. Deceased and his partner were extracting a portion of a room pillar and while loading a car from the outby corner, a piece of rock sheered off the roof and fell on Sisneros, killing him instantly. Examination showed that the place was well timbered. The accident was unforeseen and considered unavoidable.
- (46)—October 23—GAVINE DERRERA, American, timberman, experience five years, age 21 years, married, two children, employed by The Royal Fuel Co., at the Royal Mine, Las Animas county, was killed by a fall of rock. Deceased with several other persons, was engaged extracting props in an abandoned room where no pillars had been extracted and good roof conditions generally prevailed. However, at the point of accident, a small roll was running across the room forming a slip in the roof, and when deceased knocked out a prop with an ax, a large piece of rock came down with it and fell on him, killing him instantly. The place had been examined and found to be safe. The roof was tested each time before a prop was knocked out and in this instance no looseness was detected. The accident was due to the inherent danger of the work and possibly might have been avoided had proper tools for pulling props been used.
- (47)—October 29—J. F. CASTLEBERRY, American, machine miner, experience three years, age 42 years, married, three children, employed by The Rapson Coal Mining Co., at the Rapson Mine, Las Animas county, was killed by a fall of rock. Deceased and his partner had been instructed by the mine foreman to put in some more props to support the roof. The partner of deceased was in the act of placing a cap piece on top of a prop when a piece of rock fell on his feet, he shouted for help and deceased and an entryman rushed to his rescue. The entryman took the injured man by the shoulders and pulled him away while deceased lifted the rock, and before he could get away himself, another rock came down, killing him instantly. The accident was due to the inherent danger of the work and classed as unavoidable.
- (48)—November 13—CHARLES C. BALLARD, American, topman, no experience, age 47 years, married, two children, employed by Dan Lee & Son, at the Mascot Mine, Elbert county,

was killed by a run-a-way trip of empty cars. He was hoisting and dumping coal on the surface and had pushed a trip of empty cars over the knuckle into the slope when he discovered that the rope was not attached to the trip. In an effort to stop the trip from running wild down the slope he was flung under the last car and killed almost instantly. It was an unforeseen accident for which no one could be held responsible. He evidently feared that someone in the mine might be injured and endeavored to prevent it by risking his own life.

- (49)—November 16—**RAFAEL AGUILAR**—Mexican, machine miner, experience 12 years, age 35 years, married, no children, employed by The Temple Fuel Co., at the Brodhead No. 9 Mine, Las Animas county, was killed by a fall of rock. Deceased was working at the face of a room when a rock sheered off the face and knocking out a line of props, fell on him, injuring him so seriously that he died shortly after. The place was well timbered and the accident was unforeseen and is classed as unavoidable.
- (50)—November 21—**A. J. CUPON**, American, carpenter, experience not stated, age 60 years, widower, two children, employed by The Victor-American Fuel Co., at the Pinnacle Mine, Routt county, was killed by a mortar box. He was moving it along on its edge when he slipped and fell in such a way that a corner of the box struck his head, causing fracture of the skull from which he died a few hours later. The accident was a misadventure for which no one could be held responsible.
- (51)—November 24—**TONY RAORO**, Italian, pick miner, experience 11 years, age 39 years, married, four children, employed by The Colorado Fuel & Iron Co., at the Sopris Mine, Las Animas county, was killed by a fall of rock. Deceased was in the act of prying loose a rock from a slip at the face of a skip when it fell on him. He was found dead under the rock with the iron bar lying across the body showing he was prying the rock loose when the accident occurred. The place was well timbered and the accident is classed as unavoidable.
- (52)—December 2—**HILTON K. GREENE**, American, machine helper, experience two years, age 23 years, single, employed by The Vesta Mines, Inc., at the Vesta Mine, Huerfano county, was killed by a fall of roof. The machine crew had finished sheering the first cut on the back slope chain pillar and set the jack pipe and started to load the machine, when from an invisible slip in the roof a rock fell on deceased, killing him instantly. From all appearances and information obtained, the accident was unavoidable and due to the hazard of the industry.

- (53)—December 7—HAMAYAK ZAMANIAN, Armenian, pick miner, experience five years, age 25 years, single, employed by The National Fuel Co. at the Monarch No. 2 Mine, Boulder county, was killed by a fall of rock. Deceased and his partner were pulling a pillar when a rock fell from a slip in the roof between the last timber and face. The place was well timbered and plenty of props were available. The accident is classed as unavoidable.
- (54)—December 24—ROCCO MOSCHETTI, Italian, driver, experience 20 years, age 37 years, married, three children, employed by The Boulder Coal Mining Co., at the Black Diamond Mine, Boulder county, was injured by runaway cars on the 21st of December, from the effects of which he died on the above date. A trip of loaded cars was about to be landed onto the tipple when two cars broke loose from the trip and ran back on the slope and caught deceased and another man switching cars from the slope to an entry, and before they could get out of the way of the runaway cars, were struck, deceased's companion was not seriously hurt. The accident was due to the negligence of deceased and his co-workers. Had a drag been put on the trip and the man who coupled the first and second cars noticed the defective coupling, it might not have happened.
- (55)—December 26—JOHN JOHNSON, Slav, farmer, no experience in coal mining, age 40 years, married, no children, lessee of the Star Mine, Moffat county, was killed by a fall of coal. Deceased and several other farmers have a lease on this mine and only take out enough coal for their own use. The opening is in only about 25 feet, but deceased was not in the mine, getting his load of coal from the outside where the coal was exposed. He was warned that he was mining coal in a very insecure place, but he paid no heed and the coal became loose as he was undermining it and about 1,000 pounds fell from the face, crushing him so seriously that he died four hours later. This was a case of incompetent mining without regard of the Coal Mining Laws.
- (56)—December 29—PORFIRIO AGIRE, Mexican, machine miner, experience four years, age 28 years, married, no children, employed by The Rocky Mountain Fuel Co., at the Columbine Mine, Weld county, was killed by a fall of face coal. The room had been machine cut and the coal shot down, but a part was still standing up. The face boss warned deceased to be very careful in taking down this coal as it was loose. However, deceased took no precaution and began to take it down when it fell on him, killing him instantly. The accident could have been avoided had deceased taken proper care in taking down the coal.

(57)—December 31—JIM SANTI, Italian, pick miner, experience 19 years, age 45 years, married, five children, employed by The Colorado Fuel & Iron Co., at the Robinson No. 2 Mine, Huerfano county, was killed by a fall of roof. Deceased was pulling a chain pillar between main and back entry when a rock released by a slip in the roof broke loose about six inches above the coal, and fell on the roadway side, giving very little warning. The place was well timbered and every reasonable precaution was taken to safeguard life. The accident was unavoidable and is charged to the hazard of the work.

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LIST OF SUCCESSFUL CANDIDATES WHO PASSED THE
EXAMINATION FOR COAL MINE OFFICIALS,
JULY 6, 7 AND 8, 1925

First Class Mine Foreman

Cert. No.	Name	Address
10	Bickerton, Joseph R.	Aguilar, Colo.
9	Bryan, Thomas	Cokedale, Colo.
24	Chase, J. N.	Ravenwood, Colo.
1	Cornali, John	Tollerburg, Colo.
54	Jeffryes, A. E.	Trinidad, Colo.
2	Jenkins, Edward H.	Walsen, Colo.
8	Mellwee, James P.	Aguilar, Colo.
27	Scott, Harold E.	Ludlow, Colo.
52	Vallely, John	Oak Creek, Colo.

First Class Assistant Mine Foreman

15	Arnoldi, Pete	Ideal, Colo.
5	Blyth, Thomas	Florance, Colo.
37	Geiser, William C.	Trinidad, Colo.
48	Kos, Peter	Walsen, Colo.
3	Roberts, James	Rapson, Colo.
7	Trew, N. H.	Aguilar, Colo.

Fire Boss

42	Adair, William	Ojo, Colo.
6	Allen, John	Louisville, Colo.
16	Bertotti, James A.	Boulder, Colo.
4	Brown, George W.	Denver, Colo.
39	Bryan, W. J.	Trinidad, Colo.
11	Cairney, James	Denver, Colo.
13	Cameron, James R.	Delcarbon, Colo.
33	Dale, John	Cokedale, Colo.
14	Dowds, Hugh	Durango, Colo.
44	Ellis, Elmer	Louisville, Colo.
45	Falgien, John	Coal Creek, Colo.
18	Ferguson, William	Colorado Springs, Colo.
34	Fiorinia, Adolph A.	Rockvale, Colo.
20	Fritz, Tony R.	Coal Creek, Colo.

Cert. No.	Name	Address
40	Fuller, Elmer	Coal Creek, Colo.
41	Godfrey, Richard	Cameo, Colo.
47	Hallett, Carl T.....	Oak Creek, Colo.
25	Haynes, Arthur Edwin.....	Oak Creek, Colo.
31	Hill, John W.....	Cokedale, Colo.
35	Houghney, Thomas	Vallorso, Colo.
19	Hughes, Carl G.....	Colorado Springs, Colo.
46	Jarrett, Stanley	Oak Creek, Colo.
29	Limberg, Joseph	Lafayette, Colo.
17	McKinley, Ralph F.....	Bear River, Colo.
26	Madone, Dominick	Canon City, Colo.
22	Marshall, William	Toltec, Colo.
32	Monks, William	Oak Creek, Colo.
23	Murray, James S.....	Toltec, Colo.
43	Musgrove, J. F.	Meeker, Colo.
12	O'Donnell, David	Denver, Colo.
21	Prendergast, James	Glenwood Springs, Colo.
49	Prendergast, Francis L.....	Glenwood Springs, Colo.
51	Santarelli, Thomas P.....	Pyrolite, Colo.
30	Schenkier, Leo W.....	Walsenburg, Colo.
50	Smith, Lee H.....	Mt. Harris, Colo.
53	Sweet, F. J.....	Walsenburg, Colo.
28	Taylor, Edward	Coal Creek, Colo.
36	Westbrook, J. T.....	Toltec, Colo.
38	Zontine, Joseph	Rockvale, Colo.

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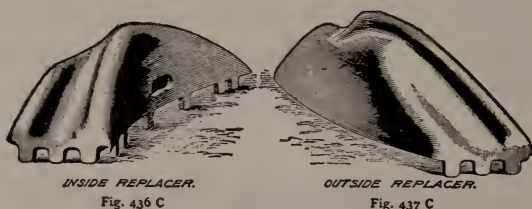
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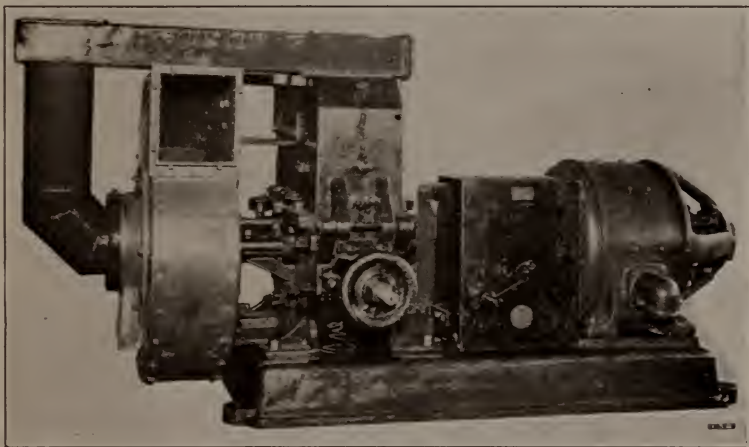
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