



## NEW MEXICO THE LAND OF OPPORTUNITY



coal is perfectly screened by shaker screens into four sizes, viz: Lump, Nut, Pea and Slack, and arrangements made for picking out and removing any slate or impurities which may get into the coal in the course of mining.

At the two coke oven plants coal washers were installed. By this means the fine slack coal is washed and a low ash coke is produced. New mines were opened and old ones improved until the capacity is now about eight thousand tons daily. This capacity is greater than the present demand and nearly equals the highest winter demand. It is the policy of this company to increase the capacity of its mines, and to open new mines in prospected areas of its

An electric power plant supplies power for all mining machinery and for lighting purposes.

There are at this camp 158 dwelling houses, 3 boarding houses, an up-to-date general store and meat market and a school house. The dwellings are well built houses with convenient water supply and electric light, and make comfortable houses.

**Van Houten Mine** is situated 16 miles southwest of Raton. It has 6 openings; also level drifts into the hills. Electrice haulage, water supply, power plant, houses and other equipment are similar to the Koehler Mine.

**Gardiner Mine** is situated 3 miles west of Raton. The present opening is a level drift into the hill at a point where the coal outcrops about 200 feet above the valley, and the mine cars are lowered to the tipple by means of an inclined plane tramway.

A coking plant is located at Gardiner, consisting of 200 beehive ovens and a coal washery, and the fine slack from Gardiner, **Van Houten** and Brilliant Mines is coked here. Equipment is much the same as at the other mines, except that the electrical energy is purchased from a power company.

**Brilliant Mine** is situated 9 miles northwest of Raton. The coal mined at Brilliant is an upper seam, or vein, which lies about 500 feet above the main Raton vein which is worked at Gardiner. **Van Houten** and Koehler Mines. There are three openings — level drifts into the hills at outcrop. Electrical haulage, water supply, houses and equipment are similar to those at the other mines.



A SWASTIKA FANCY LUMP  
Weight 2755 Pounds



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coal field so as to be able to supply the maximum demand at all times.

All the coal on the company's property lies in nearly horizontal seams or veins and is mined by level drifts into the sides of the foot-hills at places where the coal outcrops and the coal is brought out by electric haulage. The company now has five mines and two coking plants in operation.

Koehler Mine is situated 22 miles southwest of Raton. It has three openings, which are level drifts into the hills. All hauling from the mine partings and along surface tramways is done by electric locomotives. Three fans are used to supply pure air to the mines. A complete water system is installed, the water being pumped from wells to a reservoir and from there distributed by gravity pipe lines through the camp and into the mines. By this means the haulage ways in the mines are thoroughly sprinkled every day to avoid danger from dust.

At Koehler is located one of the coking plants, consisting of 210 beehive ovens and a coal-washing plant.

Brilliant Mine is situated 9 miles northwest of Raton. The coal mined at Brilliant is an upper seam, or vein, which lies about 500 feet above the main Raton vein which is worked at Gardiner, Van Houten and Koehler Mines. There are three openings — level drifts into the hills at outcrop. Electrical haulage, water supply, houses and equipment are similar to those at the other mines.

Sugarite Mine is situated 7 miles northeast of Raton, on the Santa Fe, Raton & Eastern Railroad, which connects with the A. T. & S. F. Railway at Raton and with the St. L. R. M. & P. Railway at Wallace. This is the latest development of this coal company and the coal is mined for domestic use exclusively. There are three openings, being level drifts into the hills at the outcrop, which is about 300 feet above the valley, and the cars are lowered to the tipple by means of two inclined plane tramways, one on each side of the canyon. This camp is located along a beautiful running stream and is a more pleasant place to live than most coal camps. The dwellings and other buildings are built of concrete blocks, or stone, and the camp presents a very substantial appearance. It has a good power plant, electric haulage, water supply and other first-class equipment. The tipple has all modern appliances for the perfect preparation of domestic coal and Sugarite coal is favorably known in the markets of six states.

Until the year 1914 the company has constructed a



## RESOURCES AND INDUSTRIES OF THE SUNSHINE STATE

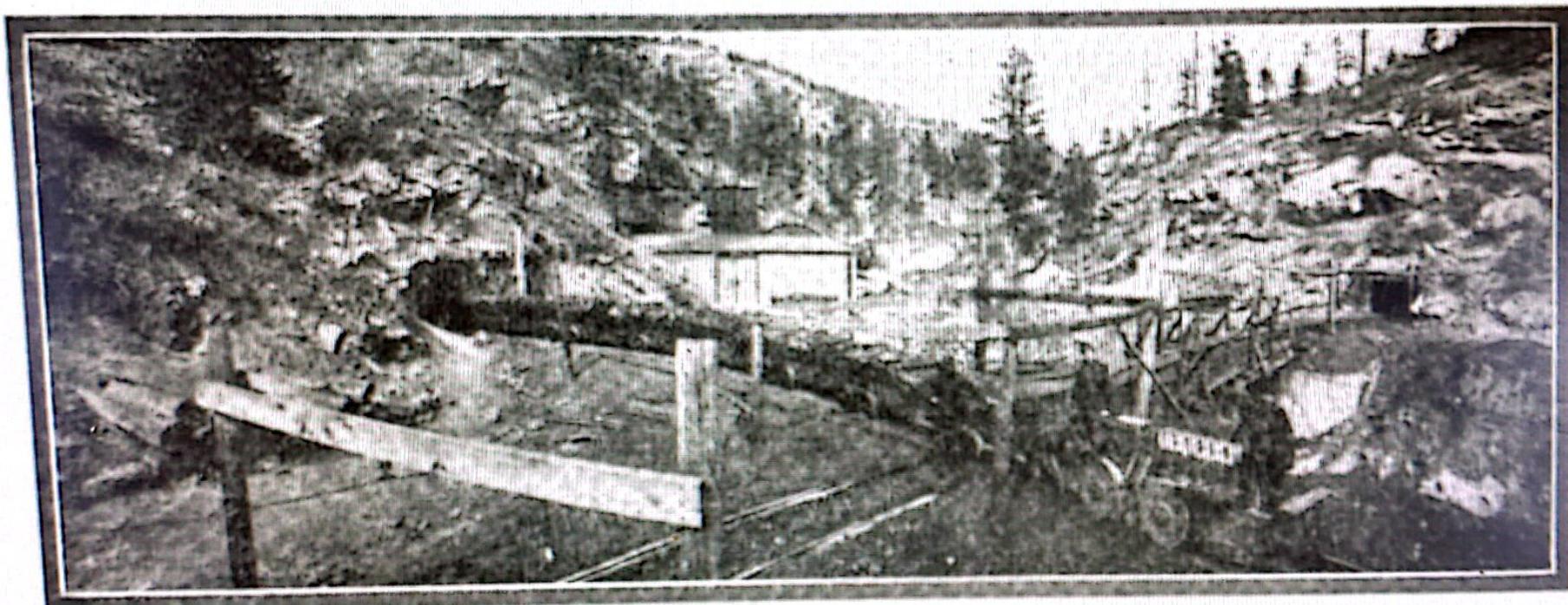


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power plant at each new mine opened and produced electric power for its operations. This year, with five mines in operation and others contemplated, it began to appear that a central power plant would be advisable. The company considered building its own central power plant, but as The Trinidad Electric Transmission, Railway and Gas Company had a large power plant already in operation near Trinidad, Colorado, only 25 miles away, and wanted to extend its service, a contract was made with the Trinidad Company whereby it will extend its power line to all the mines of this company and supply electrical energy for all its operations.

considered hazardous occupation as safe as possible is the problem now being studied more than any other thing in connection with the coal mining business. The danger in coal mining is from explosions which are caused by the presence in a mine of gas, or dust, or both, and imperfect timbering to support the roof, besides general negligence in obeying proper instructions. The mines of this company are unusually free from gas and the excellent ventilation maintained at all the mines practically eliminates this danger.

In regard to dust, the officials of the company believe that the best way to avoid danger from this source is to



PIT MOUTHS, VAN HOUTEN MINES—No. 1 AND No. 2



#### PIT MOUTHS, VAN HOUTEN MINES—No. 1 AND No. 2

This arrangement will enable the company to open new mines quickly and to enlarge the capacity of present mines, without the necessity of large investments in power plants.

The present daily capacity of the mines is as follows: Koehler, 2800 tons; Van Houten, 2700 tons; Gardiner, 700 tons; Brilliant, 800 tons; Sugarite 1000 tons; making a total output of 8000 tons per day; and the capacity of the 410 coke ovens is 500 tons of coke per day.

The markets for the product of these mines are principally in New Mexico, Arizona, Northern Mexico, Western Texas, Oklahoma, Kansas and Colorado. Steam coal and coke is shipped far into the interior of Mexico and considerable domestic coal has been shipped as far east as Nebraska.

This description would not be complete without some mention of the study and investment this company has made to insure, as far as possible, the safety of the men engaged in mining operations. To render this generally

first remove all dust possible from the haulage ways where it might otherwise accumulate to a dangerous extent, and to sprinkle the remaining dust with water. This is done by an extensive water system at each mine, consisting of a reservoir, or tank, placed far enough above the mine level to supply a good pressure at all mine workings, and pipe lines along each entry with branches convenient to the rooms. By the use of hose of proper lengths the water is distributed just where it is needed.

Coal dust as found in any well regulated mine will not explode by contact with ordinary lights, but the intense heat produced by the powder flame from a blown-out shot will sometimes ignite the dust and cause an explosion. To avoid this danger the company uses a safety powder which, according to U. S. Government tests, causes little or no flame, and all shots are loaded and fired by experienced shot-firers when all other men are out of the mine.



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In addition to these precautions the company has provided the latest improved rescue apparatus consisting of oxygen helmets and pulmotores and a number of men trained in rescue and First Aid work are constantly at hand for any possible emergency.

all well ventilated, constructed of good material, lighted with electric lights and are furnished to the men at reasonable rates. Good schools are provided for all grades up to the eighth grade, which entitles children from these mining camps to enter the County High School. Compe-



PARTIAL VIEW OF VAN HOUTEN COAL MINING CAMP—PRODUCING 2700 TONS OF COAL DAILY

This company conducts the coal mining business with the understanding that the three most important responsibilities are: *First*, to the men who work in the mines;

tent doctors and nurses furnish efficient medical and hospital service and strict sanitary regulations are enforced at all the camps. The welfare and safety of its employes is

This company conducts the coal mining business with the understanding that the three most important responsibilities are: *First*, to the men who work in the mines; *Second*, to the customers; and, *Third*, to the stockholders.

Tent doctors and nurses furnish efficient medical and hospital service and strict sanitary regulations are enforced at all the camps. The welfare and safety of its employes is the constant aim of the company.

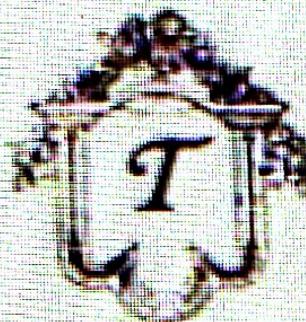


PARTIAL VIEW OF BRILLIANT COAL MINING CAMP

The company realizes that in all its mining operations safety to men and equipment is the most important consideration and that pleasant and healthful living conditions must be provided for its employes. The houses are

There can be no doubt that, with a square deal all around, this industry will increase in size and usefulness and will have an important part in the future development of New Mexico and the great Southwest.

AL MINING CAMP—ONE OF THE MOST BEAUTIFUL COAL CAMPS IN TH



*THE Total Output of the Saint Louis, Rocky Mountain and Pacific Company Mines in Colfax County Amount to Eight Thousand Tons per Day of Coal and Five Hundred Tons of Coke Each Day.*



SIGN OF GOOD COAL



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SIGN OF GOOD COAL

# COLORADO

TRINIDAD

COLORADO  
NEW MEXICO

104°

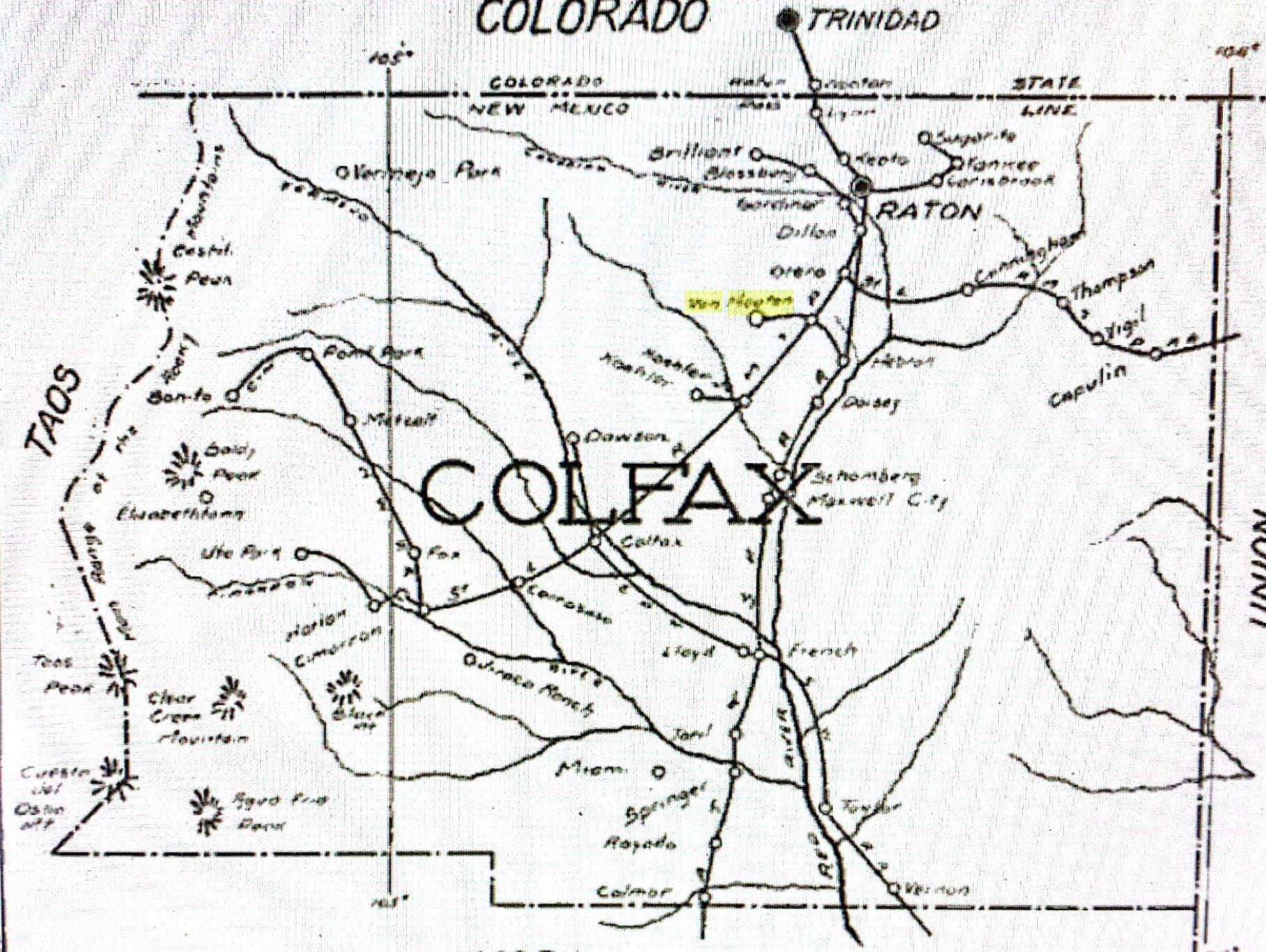
37°

TAOS

UNION

N

# COLFAX



MORA

SCALE



storage is easy. Prof. Tinsley says the soil is especially adapted to the growth of sugar beets and small grains.

With these facts regarding water duty and storage capacities in mind, then, and with the further statement from an engineering firm of national repute that the net water supply available is 42,140 acre feet a year, it is easy to see that the water supply exceeds all possible demands for the tract and is sufficient for nearly 15,000 acres beside. The water right goes with the land and the settler becomes an equal owner, proportionate to the amount of land he holds, with all other settlers.

The land on the tract is of a sandy loam nature, free from rocks, cactus, sage-brush or anything else that need be cleared before cultivation can be commenced. It is ready to farm, water in the ditch ready to use, when the settler buys it. There is no waiting, no expensive development work to do. Domestic water can be obtained from wells at from fifteen to twenty-five feet depth and is of good quality, but wells for pumping irrigation water are unheard of and unnecessary. This land can be secured, with perpetual water-right, for around \$80 an acre.

On the Maxwell Irrigated Land tract all orchard fruits do well, apples especially so. Colfax County is a great apple-raising region and the Maxwell Irrigated land is equal to the best orchard land in the region. William French, an old resident of the section, writes that he has taken as much as three boxes of apples from a single five-year-old Jonathan tree. Last year he planted fifty-five

acres in apples in raw land, making no preparation except to dynamite the holes where the trees were planted.

The land is exceptionally well adapted to the raising of sugar beets, both by expert opinion and actual results. Best tonnage comes from fertility, but it takes climate to produce sugar content. A single car of beets from the tract, grown by seven different farmers, had an average saccharine percentage of 22.66. This is believed to have been a record for a single car or for any quantity larger. Some of those beets ran one-quarter sugar. Another favorable thing for beet growers, alfalfa stands are secured easily, rendering it a matter of little difficulty to rotate crops. Beet experts declare the conditions at Maxwell cannot be bettered for growing beets.

The raising and fattening of stock is another industry which is taking a great hold on the farmers of the section, because it is so easy to grow all needed feed. The raising of hogs is another phase of this industry that is very profitable on the tract. A packing house at Koehler uses all the hogs that the farmers can supply.

Lastly, and best of all, the farmer on the Maxwell tract gets all he earns. There are abundant markets in the huge coal camps within a fifteen mile radius, Dawson, with 4,000 people; Kochler, Brilliant, Gardiner, Van Houten, with combined forces of over 2,000 men. The company's unique selling plan enables each man who actually farms his tract to pay for it by a share of his crops from year to year. Other selling plans are available for those who have money for an initial investment.

# THE ST. LOUIS, ROCKY MOUNTAIN AND PACIFIC COMPANY



SWASTIKA FUEL COMPANY BY L. C. WHITE



HE St. Louis, Rocky Mountain & Pacific Company is a coal mining company operating mines and coke ovens in Colfax County, New Mexico, in the vicinity of Raton.

The land and coal rights owned by this company were purchased from the Maxwell Land Grant Company and include the best of the coal veins on the large land grant of that name, being the principal part of the well-known Raton coal field.

The several coal seams of this property furnish coals of excellent quality for steam, coking, gas and domestic purposes.

The products of this company are marketed through a subsidiary company called the Swastika Fuel Company, whose offices are at Raton, New Mexico, and whose trademark is a Swastika Cross, and the coal and coke are distributed through Southwestern Coal Company, with offices at Amarillo, Texas, Wichita, Kansas, Oklahoma City, Okla., Dallas, Texas, and S. C. Awbrey, El Paso, Texas.

The Atchison, Topeka & Santa Fe Railway runs through the property near its eastern boundary and has

peka & Santa Fe Company, connection is made from the coal mines to the Colorado & Southern Railway at a point 50 miles east of Raton, as well as with the El Paso & Southwestern at Colfax.

In the early development of coal mines on this property, the coal was used principally by the Atchison, Topeka and Santa Fe Company, but in later years the development of other railways and of copper mining and other industries in New Mexico, Arizona and Mexico, has made a large and increasing market for steam coal and coke, and the rapid settlement and development of Oklahoma, Western Texas and all the Southwest, has caused a large demand for domestic coal.

During the past five years mining operations have shown that certain areas of the coal lands owned and controlled by this company furnish a high grade of domestic coal and it was found that by washing the fine slack coal before coking, a grade of coke could be produced equal to any in the Western States. These discoveries led to a systematic campaign of development with the end in view of supplying customers with just the kind of coal and

through the property near its eastern boundary and has branches to the different mines. The El Paso & Southwestern Railway reaches the property near the southwest corner, and by means of the St. Louis, Rocky Mountain & Pacific Railway, now operated by the Atchison, To-

of supplying customers with just the kind of coal and coke they wanted.

At three of the company's mines special plants have been installed for preparing for domestic use the coal from the areas containing coal best suited for that use. The



BIRDS-EYE VIEW OF GARDINER, NEW MEXICO

## RESOURCES AND INDUSTRIES OF THE SUNSHINE STATE



WILLIAM C MCDONALD  
GOVERNOR

# *New Mexico, the land of opportunity*

New Mexico. Board of Exposition Managers

GOVERNOR'S MANSION



NEW MEXICO BUILDING—PANAMA-CALIFORNIA EXPOSITION

OFFICIAL DATA

ON THE

Resources and Industries

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NEW MEXICO—THE SUNSHINE STATE

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