#### DESERET EVENING NEWS: SATURDAY, NOVEMBER 17, 1900.



The Richest Coal Fields of the Globe-Where They Are and What they Are-The Pekin Syndicate . Which Has Already Mortgaged the Pennsylvania of China-An Anglo. Italian Syndicate Which Has \$30,000,000 Capital-the Coul Fields of the Yangtse Valley and the Rich Mineral Regions of Yunnan-China's Copper Deposits and Its Possible Gold and Silver Concessions-Fortunes in Building Stones and How One Yankee Will Make Chinese Tombstones for the American Market-Diamonds, Saphires and Opals -- How Mining is Done and How Concessions Can He Secured.

There are thousands of abandoned mines both along the Yangtse and in other parts of China. One of the greatest troubles is water. The Chinese have no good pumps, and as noor water comes into the mines, they them. Shafts are seldom put leave them. down more than 200 feet. In Sangtung the experiment of try

ing modern pumps was attempted. The pumps were ordered from England and brought into the coal regions a t cost. They were allowed to ll great cost. there and rust until thieves had stole many of the parts. Then an engines many of the parts. Then an engineer was brought from Shanghai to put them up, but was unable to do so. The old American firm of Russell & Co., when they owned the steamers on

the Yangtse, got all their coal from Kukiang. There was an explosion from fire damp, and the Chinese though Kuklang. the devil had gotten into the mine, and It is shut to this day.

#### HOW THE WATER DEMON FLOOD. ED A MINE.

Another instance of Chinese supersti tion occurred in one of the Kaiping mines, which lies near Tong Shan on the Tien Tsin, Shanhalkwen railway. These mines are the greatest in China They employ about 10,000 men, and have an output of 1,500 tons of coal a day. I have visited them, and can say that they are not up to date in their machinery and modern methods of vorking.

The mines at Kaiping are operated by lainese under foreign supervision. Not adon was brought to take charge o them. He went through the mines an as surprised to find a large block ( the best coal in the center of one of them. He asked why it had not been taken out, and was told that it was the home of a water demon. Upon inquiry he found that the former engineer had left it partly to please the Chinese directors and partly because he thought there might be something in the theory. "The new man said: "Hang the wate demon. Let's get out the coal." The Chinese still protested, but as he in sisted, they put in a blast and fired it. When the wall of con) fell a great stream rushed in, flooding the mine and shuiting up access to many chambers. Since then the water in that mine has not been controlled, although the cost lest of pumps have been nurchased The block of coal was in reality a great pipe in which a subterranean river flowed through the mine. The coal had been cut out about it, but the pipe had been left intact until the engineer or-dered it dynamited. The Chinese must have suspected the river. At least they looked upon it as holding a demon.

#### AS GOOD AS PENNSYLVANIA.

tain the greatest and richest coal area of the globe. It is just about as big as Illinois, and it has four times as many people. It is of much the same shape as Illinois, and like Illinois has a great river running about its western and southern sides. It contains iron and limestone in vast quantities, and in the future it will probably be the great est manufacturing and steel-making section of the world,

This province has been recently visit-ed by Noah Drake, of the imperial Chi-nese University of Tien Tsin. He speaks of the anthracite area as great-

on. The top of the plateau is covered with a rich loss deposit, a bed of clay dirt from five hundred to a thousand cet deep, which is gulleyed with water ourses. Under the dirt there are vast courses. Under the diri there are vast deposits of coal and iron, exposed by the water. There is a great deal of coal about the edges of the plateau and in the moutains. It lies at an elevation of about twenty-five hundred feet. In orizontal beds, and is to be seen wher-

Notizontal beds, and is to be seen wher-ever the rivers have cut through. The anthracite seams are unbroken over an area of more than thirteen thousand square miles. They are of a thickness from twenty-five to fifty feet, and of an average of forty feet. The anthracite gives from \$ to 10 per cent of ash, and it is but slightly impregnated with subhur.

with sulphur. The bituminous coal fields of Shansi have an area of 12,000 square miles, or as great as that of Massachusetts and They lie in the western part of the province not far from the Yellow river, and are spotted here and there with deposits of petroleum or limestone and rich iron ore.

CONCESSION WORTH MILLIONS.

A part of this rich territory has been gobbled up by some big capitalists, under the name of the Pekin Syndicate. These men have a grant from the em peror and have farmed out the development of their mines to the Angio-Italian syndicate, which claims a capital of \$30,000,000

The concessions of the Pekin syndicate include the rights to all the pr troleum of Shansi, and to a large part of its coal and iron. Prof. Noah Drake says they have one bed of coal which contains more than 3,000,000 tons of fine anthracite. The bed is twenty-two feet thick on the average. They have other deposits which are even more valuable. Their concessions lie in central and outhern Shansi and extend over inte Honan and the mountainous regions below the Yellow river, comprising a

territory greater than the whole of New England and forming pethers the richest coal concessions ever made.

CHINA'S RICH GOLD MINES.

I find a general belief here that China is rich in the precious metals, and the geological surveys so far made point to the same conclusion. The Germans say that there is plenty of gold in Chan-tung and that the Chinese there, are washing it out of the streams. Gold is now being mined in Mongolia and in different parts of Manchuria. The in different parts of analytic plac-Moho Mining company is working plac-er deposits not far from Mukden; it er deposits not far from Mukden; it has already exported something like a

million dollars' worth of coarse gold. There is gold in Yunnan, in south-western China. There are placer de-posits along the Han river and also along the western highlands on the bor-ders of Thibet.

Pumpelly found silver in sixty-three different localities, and lead in twenty-four. In Yunnan the silver is mixed with lead. The province has also tin, zinc and iron. Lead is also found in Fukien, opposite the Island of Formo-sa, and in Kwantung, not a great dis-

#### FORTUNES IN COPPER.

tance from Canton.

The big dividends now being paid on copper mines in the United States may at some time be paralleled in China. The copper ore is rich, and it is said The copper ore is rich, and it is said to exist in every province. It is being mined in Shensi, where the emperor has fied, and also in Kweichau, below the Yangtse, Yunnan has a white cop-per which is mixed with tin, iron, nickel and lead, and it has copper mixed with silver, tin and lead. The Yunnan copper mines are now workerd by native commanies who have been

Read

Our

colors as the cliffs of the Colorado can- | gard to the American market. I met a gravestone man from Seattle at Hong-kong to weeks ago. He had been trav-eling through the province of Kwang a control of the second second

cutting out fombsiones for the Chris-tian cemeteries of the United States, but this is a possibility.

#### HOW TO GET MINES IN CHINA.

The chief money to be made here is in the industrial metals. I am told there are rubies, amethysts, sapphires, diamonds and opals in different localidiamonds and opals in different locali-ties, but these are nothing in compari-son with the value of the copper, coal and iron. If concessions are granted and the country made safe there will be an influx of foreign prospectors as soon as the ireaty of peace is settled. There will probably be many Americ-ans, and our government should see that the mining regulations are so fixed by treaty that there can be no dispute as to title and the working of the mines.

mines. At present China has a bureau of mines and railways. It has certain laws as to foreigners who wish to open up such territory, but at present those laws are altogether in favor of the Chines

I have before me the concession of the Pekin syndicate, which went into operation two years ago. It provides that the property and all improvements shall revert to the government ofter sixty years, and that the company shall sixty years, and that the company shall in the meantime pay the government 25 per cent of all its profits, with the ex-ception of 6 per cent on its capital stock and 16 per cent for a sinking fund to repay the capital invested. In other words, the syndicate gets a 6 per cent dividend and a 10 per cent sinking fund before anything else is paid. Of the balance it receives 75 per cent, and this is to go on for sixty years. this is to go on for sixty years.

The government also receives a tax of 5 per cent on the cost of working the mines and double the usual taxes on the government lands held by the con-cession. Similar regulations are made as to all companies operating in Chi-

According to the present law at least three tenths of the stock of every for-eign mining concession must be owned eign mining concession must be owned by the Chinese. It is impossible to get a concession where all the capital is foreign. In no case will the govern-ment be responsible for losses of any kind

All grants for such concessions must be sanctioned by the bureau of mines, and promoters are required to show proof of having capital before their ap-plications will be considered. The books of all mining companies must be open to government inspection, and ev-ery such company must establish a school of mines for young Chinese mining engineers.



### Service and the service and th FRANK G. CARPENTER. communication of the second se

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Shanghal, Oct. 3, 1900 .- The mineral resources of China will form an important consideration in the payment of the war indemnity. The Chinese will not stand an increase of taxation, the reformation of the corrupt officials is a work of years, and the most of the money demanded will probably have to be secured by concessions. There is no doubt but China has enough minerals to pay its war debt a thousand times over. It has long been considered the richest coal country in the world, and the railroad surveyors have discovered coal and iron almost everywhere. The Germans have found diamonds in Shantung, and mines of gold and silver are being operated in several places at a profit. Still, no one knows just what China contains, and the powers should undoubtedly take advantage of the situation and demand a careful geological survey of the empire. Such a survey would be invaluable to the scientific and industrial world.

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CHINA'S MINERAL WEALTH.

Some of the biggest fortunes of the some of the biggest fortunes of the next twenty-five years will come from the development of China's mines. The oountry is a very cave of Aladdin, which needs only the genil of modern progress to display it to mankind. Let me give you a faint idea of its possibilities. I have gathered information about 1 from all available sources. I find much in the library of the Shanghai club which has papers on China which are unobtainable elsewhere, and I have much from the mouths of Chinese officials and mavelers. Some of the best geological work ever

done out here was by Raphael Pumpel-ly, a Harvard professor, who was employed by the Chinese government as a mining engineer. He spent five years in making a tour around the world, and much of this time was devoted to China. More recent investigations are those of Baron Richtofen, and lastly of the engineers and surveyors of the railroad syndicates which have concessions from the government

#### CHINA'S IMMENSE COAL FIELDS.

First take the two great industrial metals, coal and iron. China has one of the best labor populations of the globe, and in this age of steel, with coal, iron and modern machinery, it will be a factor in the world's manufactures. Pumpelly says it has the greatest coal fields on earth. There is coal and iron in every province, and several of the provinces are as rich as Pennsylvania in these minerals. Not far west of Pekin there is a great coal bed which ex-tend along the frontiers of Chinli, through the province of Shansi, and thence down through Honan and Hupeh, into another yast coal and iron district in Hunan on the south side of



"They Make Magnificent Monuments."

#### นุ่มนางในปนปลามปลามปลามปลามปลาไลปัตว์แข่งนางปลาไลปลามปลาไลปัตว์แห่นไลปัตวุณไลปัตวุณไลปัตวุณไลปัตวุณไลปัตวุณไลป

the province of Yunnan. Yunnan is about the size of California.

It is almost as big as the combined areas of Michigan and Wisconsin. It lies right on the border of Burmah and will be reached by the railroad which is projected from Burmah to China. The Yangtse river forms a part of its north-ore houndary and through it the coal ern boundary, and through it the coal can have access to many thousand

miles of water ways reaching hundreds of millions of people. Yunnan has a population of more than eleven millions and with its coal, iron, copper and other minerals it will probably be a great industrial and man-ufacturing center. The State has al-ready a trade of two and one-half million dollars a year, a part of which is coal. The mines have been worked for ages.

district in Human on the south side of the Yangtse. There are important coal fields in eight of the provinces below. The reduced is mountainous and anthracite, fields in eight of the provinces below.

a mile above the sea. Other beds are near the Yangtse and Slang rivers. They are said to be easily worked.

COAL IN GERMAN CHINA. Shantung, which is claimed by the consul at Chefoo recently received a report made upon some of them by a foreign engineer. He reports a vein of soal four feet thick in Shintai county, which he says is for sale. It is close to another mine which is now being operated at a profit. Near this same mine there is a bed five feet three inches hick, which could be worked on shares, and three miles another which has just been sold for \$4,500 to the Germans, One of the mines of this region is already turning out 1,000 tons of coal every day,

There are other regions in Shantung that are much better than this, some of which the Chinese have been working for ages. In the mountains just bac of Klaochua, there are thousands of Chinese mining coal. They work twelve hours a day for from six to ten cents. The mining is primitive. The coal is dug out with picks and carried from the mine in raw-hide sacks on the backs of men. It is then put into buskets or whee barrows, from one to four backets barrows, from one to four baskets being fastened on the shelves which jut out on each side of the wheel

It is such barrows, pulled and pushed by men, that the coal is taken to the market. Some of the wheelbarrows have sails. Only little can be carried on a barrow, and the freight rates are so heavy that it costs \$6 to bring ton from the mines to Klaochau, a dis tance of seventy miles. Coal worth \$2.25 a ton at the mines sells for \$7 a ton a few miles away.

road to these mines. The road-bed is almost completed and the cars are on the way. As soon as conditions become settled it will be put into operation and this coal will have an outlet to the

## YANGTED.

The Yangtze Klang is one of the most wonderful rivers of the world. It is over 2,000 miles long and it almost bisects China. The biggest ocean steamers can sail up it into China as far as New York is distant from Chicago, and with its tributaries it fur-nishes more than 12,000 miles of navigable waterways. There are vast coal deposits, which could easily be made accessible to the Yankise Kiang. This

king, Hankow, and from Chinklang to the borders of Thibet.

Mrs. Bishop visited a coal mine in Sichuen, on the Yangise, about 2,000 miles back from the sea. She says the seam was four feet thick and was

the Yangtse Klang, and especially in the center of Yunnan, at an elevation of

The Germans are now building a rall-

sea.

## RICH MINES ALONG THE

describe further on. They are the greatest in China, and a short rallway will bring them to the Han river, which flows into the Yangtse at Hankow. The upper Yangtse, and there are coal beds all along the Yangtse valley. I am king, Hankow, and from Chinkiang to is so of the Shansi coal beds, which I describe further on. They are the greatest in China, and a short railway will bring them to the Han river, which flows into the Yangtse at Hankow. The mines of Yangtse

Germans, has rich coal fields. The mines begin within forty or fifty miles of Kiaochua bay, and extend through the mountainous regions back of it. Our consul at Chefoo recently received a report made upon some of them by a foreign engineer. He reports a vein of coal four feet thick in shifts of twelve hours, the miners being paid 14 cents a day, with an allowance of these meals of rice. an allowance of three meals of rice. The coal costs about 40 cents a ton in labor, and a short distance away from the mines it was selling for \$1.75 a ton. In the upper Yangtse, near Suchay, there are coal mines in the side of a cliff, which have been opened by gal-leries hung from the top with ropes of platted bamboo. The miners bring the coal out upon the galleries and thence slide it down in baskets into the boats on the Yangtse.



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