

# Mines and Mining.

## HIGH CLAIMS MINE

THAT IS WHAT A WRITER SAYS OF THE UNITED VERDE.

IS OWNED BY SENATOR CLARK

Its Ore Bodies Are Large and the System of Mining and Smelting Is Complete in Every Detail.

Quite likely, remarks the Jerome, Ariz., Reporter, the real value of the United Verde mine is not accurately known even by its principal owner, but is also reasonable to suppose that money will not buy it. There is a rumor still in circulation to the effect that when the Amalgamated people acquired the Marcus Daly properties at Butte, they sent an accredited representative to Mr. Clark, asking him to name a figure on the United Verde. The story is that Mr. Clark replied that it was useless to confer about the matter, as the property was not for sale at any price. Ten shares of United Verde stock were recently sold in New York at \$300 per share. As the capital stock consists of 300,000 shares, this would make the total capitalization \$90,000,000, a sum so vast as to be almost incomprehensible to the average mind, even of the westerner, who is accustomed daily to large things. The par value of the United Verde stock is \$19 per share.

### The Output of Ore.

The monthly or annual output of copper from the big smelter is a matter which the company treats as a business secret, and on which it will give out no information or data to any one. Of course it is possible for a shrewd observer to closely estimate the shipments, and if one were really avidious of accurate knowledge on this score it might be possible to come very near it by a close watch on the cars at Jerome Junction.

Popular reports have the output for the past year at figures ranging all the way from 3,000,000 to 5,000,000 pounds per month. Possibly the actual production is something between these two amounts. The cost of production at the mines and smelter of the United Verde is another point which seems to interest people. Persons who claim to be well posted state that it costs less to lay a pound of fine copper on the cars at Jerome than at any smelter in the United

States. As it costs about four cents a pound in Montana, about three and three-fourth cents in the Lake district—where large deposits of native copper abound—and from four and one-half to five cents a pound in the southern part of the territory, the United Verde must be making it very cheap. The richness of the ores in copper, silver and gold have also been the subject of much contention, and doubtless exaggeration. The copper ores of the Verde district will average all the way from 4 to 18 per cent copper. This perhaps may be taken as a guide in arriving at the richness of the rock in the United Verde mines. As to the gold and silver contents there is no way of really arriving at that. There is great variation in auriferous and argentiferous contents of ores in this district.

As to the extent of the ore bodies, it is claimed that they are practically inexhaustible, and to no one who has watched the gradual growth of the immense slag dump on the east side of the smelter and has visited the numerous smoking piles of roasting ores, and has seen carload after carload of red ingots going out of Jerome day after day, that statement can well be credited. Copper mines are long lived. Copper mines in Spain and South America, such as the Rio Tinto in the former country, and the great Inca workings in Peru and Argentina, are known to be several centuries old, and are still producing. Generations of Clark's two centuries hence, therefore, may be still reaping dividends from the United Verde Copper company, which potentially may explain the refusal of the founder of the family of any offer of purchase at this time—if it has occurred.

### The Plant Is Modern.

The smelter of the United Verde Copper company is the modern plant in Arizona, in fact, west of Montana. It comprises six water-jacket blast furnaces, one reverberatory furnace, one tilting furnace and six converter stands. It is the intention to add within the next 12 months from two to four blast furnaces and two converter stands. Two overhead traveling electric cranes convey matter to the converters from the furnaces, and converter slags and bullion, the latter being further refined in the tilting furnace, and from thence it is cast into anodes. The production is shipped to the great refineries of the east in the form of "converter bags"—copper ingots—and in anodes—large, flat copper plates with lugs or handles at the top. This copper is all electrolytically refined in the east, during which operation there is a separation of the gold and silver contents. It is currently gossiped, and by many

competent persons believed, that the copper bullion of the United Verde Copper company carries sufficient gold and silver to pay the current expenses of production, as well as freight tolls to the eastern market, but this is unlikely. The power house in connection with the plant is a sight well worth seeing, and one that will be long remembered. Immense dynamos, air compressors, blowing machines, vast fly wheels, and long lines of belting and rope transmission bewilder the eye in apparent confusion. But it is "orderly disarray," and from the seeming chaos Master Mechanic Adamson has evolved a perfect system of order.

### Managed Economically.

Expert metallurgists who have visited the Verde smelter state that it is one of the most economically managed plants in the United States, less coke being required than at Butte or the other large Montana smelters, or even in the further west. The coke supply is drawn from the ovens of the Colorado Fuel & Iron company at Sopris, and the coal used comes from the recently acquired coal mines of Senator Clark at Clarkville, near Gallup, New Mexico. The timber and stulls required in the mine are shipped in from Flagstaff, Williams, and from the immediate vicinity.

About 1200 names are carried on the pay rolls of the copper company, including those of the mine, smelter, hoist and the various shops and departments. The average rate of wages is said to be the highest in Arizona. A man on the surface receives less than \$2.25 per day, and but few are at work for that wage.

### MACHINERY EN ROUTE.

It Will Be Used In Boring for Oil at Kintla.

The drilling machinery purchased by the Kintla Oil company is expected to arrive in Belton inside of a week and will be at once placed on sleds and taken to the property of the company, says the Kallspeil Bee. The machinery is complete and up-to-date in every way and is the heaviest of its kind that could be purchased. It was originally purchased in Bradford, Pa., by a Washington company for use on the Colville reservation during the oil excitement there last year. When the excitement abated on the failure of the company to strike oil after going down 1700 feet, the machinery was placed in storage and remained there until purchased by the local company. A. L. Jaqueth, as agent, made the deal, and when he left Caville a few days ago the machinery was almost in readiness to be shipped. With the machinery he also purchased 1700 feet of casing.

Just where the first derrick will be erected and the first well sunk has not been decided upon, but it will be either at the foot of Kintla lake or at the head of Bowman lake. There will be no unnecessary delay in getting the work started, as it is the intention to push operations as rapidly as possible. As a sawmill was also purchased, the work of sawing lumber for use in the derrick will commence immediately after being placed in position. From present indications it is probable that there will be two or more oil wells sunk in the vicinity of Kintla lake inside of two months.

### MINES OF SALTSE.

They Are to Be Developed to a Greater Depth.

Richard Daxton, president of the Tarbox Mining company of Saltse, is spending a few days in Missoula in the interests of his property, which he describes as being developed nicely. Of this property the Coeur d'Alene Mining Record recently said:

The first of February will see the beginning of deep mining in the Packer Creek district, near Saltse, Missoula county, Montana. It is encouraging to note that Richard Daxton, as president of the Tarbox Mining company, has shown his great faith in that region to the extent of installing machinery for sinking at present to a depth of 500 feet. Although Packer creek has produced upwards of \$200,000 worth of ore the class of work performed thus far can at best be called only spongering on the surface. With modern mining methods being introduced and plants erected for the proper treatment of the ores, Packer creek and the St. Regis region is destined to be by far the greatest camp in Missoula county. The announcement of the American Smelting and Refining company of the advance in the price of lead is encouraging, and although the Tarbox ore contains large amounts of this metal and with good prices would prove quite an item, the ores contain enough values in gold, silver and copper to make a large margin without the lead. A large force of experienced miners is employed and the development work they are doing is said to be faultless. With the financial support of the foremost mine operators in the Coeur d'Alene and the showing on the Tarbox at this time, the stockholders of this company ought to consider themselves lucky.

### A PROMISING OUTLOOK.

Philippine Group Up North to Be Developed.

C. A. Case of New Year was registered as a guest at the Lewistown Wednesday, says the Lewistown Democrat. Mr. Case is the representative of an Eastern syndicate which has under bond the Philippine group of claims on the head of Armells creek in the Judith range. The past two months he has had a force of miners at work on these properties, and to the Democrat representative he spoke in a very encouraging tone as to the outlook for that group. The group is situated in a section of the range which has hitherto been prospected but little for cyanide ores and the result of the development of the Philippine group will mean a great deal for the Armells creek country. Very favorable surface assays have been received from several of the claims of this group and, the formations being similar to those of the other districts where cyanide ores are found, the chances for the presence of ore deposits in that section are encouraging, to say the least. Mr. Case will continue to work in the Philippine group for several months, or at least long enough to thoroughly explore the ground under bond.

### On a Dog.

(Life.) "They're thinking now of reversing the usual process and first trying plays in New York before taking them out on the road." "What's the idea?" Well, if the play succeeds in New York, the rest of the country will know it's rotten."

## BUTTE MAN'S LUCK

JASPER KING HAS FOUND SOMETHING GOOD AT SLOCAN.

BIG OUTPUT OF SILVER IN B. C.

After Twenty Years' Absence John F. Holden Returns to Butte to Find a City Which Is Strange to Him.

John F. Holden of the "Tamarack Group Development syndicate" of Slocan, B. C., is at the Flinchen. Mr. Holden is making his first visit to Butte after an absence of more than 20 years.

"In the summer of 1881," said he this morning, "I was pounding cold steel in the Original mine. I was only a boy when I left Butte that fall and I haven't seen it since until today."

"There is no use in my trying to give you any idea of the difference. It beggars description. The fact of the matter is I haven't been able to get my bearings yet. Twenty years in Butte's history makes a change that puts the old Rip Van Winkle story utterly in the shade."

"Wait a few days until I begin to recognize places and I'll tell you what I think of it."

### Jasper King's Luck.

Asked about the Slocan country, Mr. Holden said, "Jasper King, who was an old-timer in Butte, has just made a big strike up in Slocan. When I left there last week there was a good deal of excitement about it."

"Jointly with Thomas Mulvey, Fred Johnson and Joe Taylor, he is the owner of the Ottawa mine, situated close to Slocan City. The property is a new one and has only been worked about six months. It is a silver and lead proposition and has a vein from 10 to 50 feet wide, with a pay streak from one to three feet in width."

"Samples taken from the face of the vein gave returns of from 1000 to 3185 ounces in silver. They were sacking ore when I left that runs \$50 to the sack."

"I believe this is the biggest strike ever made in the Slocan district."

### Output of Slocan Mines.

"The Slocan mines had a big output last year. From 30,000 tons of ore, returns of more than \$2,500,000 were obtained."

"All the mines there are working now, among them, the most profitable are the Arlington, Enterprise, Payne, Slocan Star and Boston. In general the ore is high grade, but the veins are small. "If they were on this side of the line, they would bring three times the returns. However, as the transportation facilities are deficient, the duty on lead is high, and the country lacks the enterprise of one of Uncle Sam's mining camps."

"A new refinery is in the course of construction at Trail which will aid the development of the country materially."

Mr. Holden will leave in a few days for the East, whence he goes to old Mexico, where his company has extensive interests.

### COOKE CITY MINES.

David Noble Says He Has Good Gold Property.

Colonel David Noble, one of the old time mining men and prospectors of the state, is in the city from the Cooke City mining district, where he has some valuable properties, and will remain in Great Falls for the winter, says the Great Falls Leader. Colonel Noble is a practical mining engineer and has followed the business of mining and prospecting for the past 30 years. Twenty-five years ago he owned mines in Butte which he sold for a good figure, and since that time he has been in the neighborhood of the Cooke City mining district.

"Cooke City will be all right," said Mr. Noble today in speaking of the outlook. "We expect the Burlington to build our way some time during the coming summer, and at present the government is building an excellent wagon road into the district for the traffic. The camp will yet be a record breaker and I am satisfied to have pitched my tent there. I am interested in the National Park Gold Mining company, which was formed in Great Falls a few weeks ago by a number of your prominent business men, and whose headquarters will be in this city. The mines which we propose to work are ones upon which I have expended much money in opening in the past and we believe that they will produce during the next season's work. In the Gold Fraction, which is one of the group, I have a lead of 10 feet in width and have sunk upon it 60 feet; it will assay from \$60 to \$100 in gold to the ton, and with machinery to work and treat the ore I believe we have the best thing in the state. I shall remain in Great Falls for the winter and leave for Cooke City in the spring to put a force of men to work developing the property and putting in machinery for working."

### On the Ceded Strip.

The Chief Mountain Mining company, incorporated in Utah, has filed a copy of its articles with the secretary of state, its purposes being to develop a group of claims in the Kennedy Creek district, in Teton county.

The incorporators are John Henry Van Pelt of Main, Mont., Frank Maxreth of Cardston, Canada, B. F. Caffey, Frank Pierce and E. B. Critchlow of Salt Lake, Mr. Van Pelt being the agent in Montana. The capital stock is \$30,000, in 10-cent shares, and the head office is at Salt Lake. The claims are the Group, Sunday, Two For, Chief and Abbie Belle.

### Really?

(Philadelphia Record.) Mrs. Malaprop—That's young Mr. Jenkins. He's engaged to be married, you know. Mrs. Gabbler—Indeed? And is that the young woman with whom you know? Mrs. Malaprop—Yes, that's his fiancée.

### Doesn't Flourish.

(Philadelphia Press.) "I've been told that the soil is very fruitful in South Africa." "That may be, but there is one thing it seems pretty hard to raise on it." "What's that?" "The British flag."

## SURGEONS ANXIOUS

WANT TO USE KEEN KNIVES ON DR. RUSSELL.

IN THE INTEREST OF SCIENCE

Wants His Family Provided for—District Attorney Clarke Threatens to Invoke Law to Prevent Operation.

(By Associated Press.)

New York, Feb. 13.—District Attorney John F. Clarke of Brooklyn has taken a decided stand against the proposal of Dr. James E. Russell of that city to offer himself as a subject to vivisection. The Enquirer today told of how Dr. Russell, goaded by the stand taken by anti-vivisectionists had offered himself to be operated upon for one year in case provision was made for the care of his family during the period of operations or in case of his death under the knife. When District Attorney Clarke's attention was called to this proposal, he said: "If a knife is laid upon Dr. Russell by any surgeon or any committee of surgeons, I will arrest every person concerned. Should they operate secretly and Dr. Russell die I will try and convict every man of them for manslaughter."

Earlier in the day members of the board of directors of the Henshaw Central hospital in Brooklyn had offered to operate upon Dr. Russell in that institution. When their attention was called to the objections of District Attorney Clarke they at once assumed a position of defiance. Dr. George Everson of the hospital is reported to have said:

### Doctors Defiant.

"We have the right to examine the organs of any patient who presents himself. There is no law to prevent surgical operations, and if Dr. Russell wants us to examine his heart or any other organ we have the legal right to do so."

The startling proposition was made this afternoon that in order to prevent interference with the law a bacteriologist should first inoculate Dr. Russell with the germs of several diseases, then, it was asserted, the surgeons would have the right to step in and use their knives under the pretense of operating in the hope of saving his life.

Dr. Everson explained this plan. He was asked: "Who would begin work on your subject first?"

"First, the bacteriologist. He could place Dr. Russell in such a condition by experimental injections that certain organs of his body would call later for surgical interference, thus keeping within the bounds of the health law and enabling us to surgically interfere."

"When the surgeons got through with him we could honestly say that Dr. Russell had died of the want of breath, and a coroner's jury, composed of men of the most searching and experimental character, would find no evidence pointing to the contrary."

### Will Need Funds.

"How about Dr. Russell's wife and family?" he was asked. "Let some of our moneyed men give the hospital a few donations, and the doctors will look after the widow and the children personally. No doctor's widow has ever been in want."

Russell reiterated his offer recently and in reply to questions, said:

"I still hold good to the offer to give myself voluntarily to the surgeon's knife in the interest of science. If the doctors will agree I will submit to hypnotic influence instead of anaesthetics. But before I subject myself for vivisection a sum of money which I cannot now name, although I have settled in my mind, and which I intend for the maintenance of my family, will have to be paid."

"My life is insured for over \$50,000, and, of course, I would have to forfeit this. But the fascination of vivisection is so great within me that I am willing to make any sacrifice for it."

When told today that her husband's offer had been accepted Mrs. Russell cried out in horror: "God forbid that men can be found so barbarous as to do this thing. It shall never be. I could never make the sacrifice; it would kill me, too."

### How He Worked It.

(Baltimore News.) "I don't see why they call you the star boarder," complained the fellow who always got the wing. "That's easy," replied the other, in his copyrighted superior style. "I just twinkle-winkle, and the landlady doesn't know what I am and lets me stay on blind faith."

## EDUCATIONAL WORK

SCHEME TO START NEW PLAN OF EDUCATION.

COMMENCE WORK IN SOUTH

John D. Rockefeller and His Son and Many Other Rich Persons Have Promised Aid—Several Millions Pledged.

(By Associated Press.)

New York, Feb. 13.—A movement to organize educational work in the United States, especially in the south, on a scale larger than has ever been attempted here before is gaining strength in this city. It has attracted the favor of a dozen or more men of great wealth, among them John D. Rockefeller and his son, who are said to have determined to give needed financial support. Several millions of dollars are ready to be pledged to the great undertaking and abundant means will be available as soon as the plans for organization are completed.

While there have been frequent conferences of late regarding the educational institution to be formed, it may be several weeks before men who are busy with its plans are ready to apply for charters.

### Commence in the South.

So far as there has been substantial agreement, however, the plans point to a central educational work to be performed in various states by branch organization.

For a time the efforts of the organization will be directed to educational work in the South, but later on when Southern educational system and facilities have been brought up to a high standard and the organization probably will direct some of its efforts to educational work in the Western and Northwestern states.

The organization is to be formed on such a substantial basis that it will be self-supporting and will be expected to continue to increase in power and influence long after the men who gave it the start are dead. When the central board has been formed under the charters to be obtained, it is expected that William H. Baldwin, Jr., will be placed at its head.

Mr. Baldwin has been active in municipal reform work while he has been president of the Long Island railroad.

### South Is Too Poor.

He has been devoting much thought and study to the question of educational work in the South and has been a prominent member of the board of Southern educational conference of which Robert C. Ogden is the chairman.

The great educational organization will be, in some measure, a result of investigation made by the southern educational conference.

For several years men of influence have been employed in formulating plans for improving the educational facilities in the South. It has been made plain at such conference that the South was too poor to provide for its people, both white and black, as good schools as were needed.

Several of the men concerned in southern educational conferences have been interested in the work done under the supervision of the boards of trustees concerning the funds for education in the South provided by the late George Peabody and the late John Fox Peabody.

### YOUNG LAD KIDNAPED.

He Was Probably Taken by His Father, However.

(By Associated Press.)

St. Joseph, Mich., Feb. 13.—Lawrence, the 6-year-old son of Mrs. A. J. Countryman, who has been the victim of two sensational kidnaping cases, has again disappeared from the home of his grand parents, Mr. and Mrs. Robert Van Brunt of this city.

He has not been seen since Monday morning. He left the house coatless and his whereabouts are unknown.

For the last six years Mrs. Countryman lived in Chicago, where her husband was employed in the Union stock yards. A year ago they quarreled and the mother with her two children returned to this city to live with her parents.

On July 4 the boys, Lawrence, aged 5, and Albert, aged 8, were mysteriously stolen in broad daylight from in front of their grandfather's home in a densely populated section of this city.

The mother later found her boys in a negro den in Chicago and escaped to a boat with the younger one of them, after an exciting chase through the streets.

Countryman pursued her to the boat, but the passengers prevented him taking the boy, who has since been living here.

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