

A crosscut on the 170 level of the Buckeye has cut a shoot of ore from the companion mine, the Rural. On both properties much ore is being developed at several points.

## DEVELOPMENT WORK PROGRESSING AT RURAL

The crosscut from the 170 level of the Buckeye mine that is being driven toward the Rural has been in ore the past several days that would indicate the extension of the big ore shoot from the Rural. Some of the ore is exceptionally high grade and the whole of the 24 inches that now shows in the drift is of milling values. When the vein was entered some time ago the filling was largely of granite, but this is being replaced rapidly with ore, the granite going out as progress is made toward the Rural. The main tunnel on the Buckeye has been driven eastward and is now in full face of good mill ore with indications that the high grade may be encountered at any time. The property is being operated by about 30 men at present, and this force will be added to as progress is made. Everywhere that openings have been made in either new or old ground ore carrying high mill values have been found. So far the tonnage opened up is far in excess of the expectations of the management. With the connection of the drifts with the old Rural workings and the sinking of the main shaft to new levels a mill of large capacity will be needed to handle the big tonnage. Aside from the rich shipping ore this property is sure to develop one of the biggest milling propositions in the country.

been continued into rich ore, every opening showing better and better values as the work progressed. Some of the richest ore ever taken from that property is now being cut into. To the east the main tunnel level is being driven forward in excellent ore, some of which carries values away into the thousands of ounces in silver, with considerable gold. In the drift toward the Rural from the 170 level of the Buckeye the ore is very rich. So far the mine is opening up far and away beyond the expectation of the management. So important have the new strikes in the property become that M. B. Dudley and associates in the undertaking feel that they may now go ahead with the consideration of a large milling plant to handle the large tonnage established in the mine stopes and in the dumps. Shoots have proven to be much longer than those opened by the old operators of the property and the ore bodies are found to be far larger in width and extent, even in what was termed the "proven ground."

## Rural Crosscut Shows Good Ore Bodies

The crosscut from the 160 level below the Rural tunnel has interested the vein and drifting east and west is disclosing some nice ore bodies. The old works of the Buckeye will be entered shortly and the drifts will be timbered up and made safe. The lower drifts will be carried into the new ground to the east, where good ore was recently opened on the level above. To the west the drift is being carried into the Rural ground and the old workings in that property will be put in shape to handle the large tonnage of mill ore that is known to be there. The ore that is being drifted on is exceptionally high in grade and could be shipped without assorting, but it is the intention to mill all of the output of the mine.

A big milling plant has been ordered, a flow sheet of the ore showing that it will respond to concentration and flotation. The plant will be on the way from Denver within the next 45 days and the work of installation will not require more than two months. This plant is to be rushed to completion and the mine is to be put in shape to produce the necessary ore.

## CONTINUES AT RURAL

### DUDLEY INTERESTS PLAN ER- ECTION OF EXPERIMENTAL MILL FOR TEST RUNS.

Development work on the Rural Mines, Inc., is progressing rapidly. The new double compartment working shaft being sunk on the Buckeye claim is nearing a depth of 200 feet. A crosscut is now being run from this shaft to connect with the west drift, which was run from the lowest level of the old Buckeye workings, thus connecting all the old workings of the property with this shaft, through which all hoisting will be done in the future.

As soon as this connection is made the work of clearing out the second and third levels from the old Buckeye shaft will be commenced, and pushed ahead vigorously. All the caves and loose ground caught up and retimbered after which both the ore bodies on these two levels will be developed at the same time.

On the tunnel level of the old Buckeye claim, where the company has been drifting to the east for the past several weeks, the shoot of ore which was first encountered, 155 feet west of the present face, has now widened out. The full width has not yet been determined, but a shot put in on the hanging wall side of this drift, shows all in ore and hanging has not yet been reached. This ore is far above a milling grade as it breaks down, and a streak on the footwall is all shipping ore.

In the west drift from the third level from the old Buckeye shaft, the ore body opened up in December is developing into a large body of ore, which after connection is made with the main working shaft, will be blocked out and the drift continued into the old Rural workings, where an examination made last spring, shows a large body of high grade shipping ore exists. With the connection of the old Rural workings with the main shaft made, the shipping of this ore will commence. In the meantime plans for the new mill will probably be completed.

However no mill will be authorized by the engineers until the primary zone has been reached, ore developed and test runs made, in order to determine the most economical manner to recover the values from the ores of both the oxidized and primary zones. It is understood the Dudley interests are now contemplating the erection of an experimental mill which will be of large enough tonnage to turn tests on a commercial scale. Then ores from the different properties may be run in this mill, and the ores treated to find the best manner of handling, after which, a mill to be erected on a property will be designed to give the best results from a commercial point of view.

This is an excellent idea as this

RURAL—(Kingman)—Preparing for installation of 100-ton mill, with electrical equipment. Bunkhouses for 50 men being built. Constructing new road for motor truck transportation. Rich wire silver taken from bottom of shaft. Situated at Mineral Park.

# QUIP RURAL MINE HEADFRAME - HOIST

The new headframe for the Rural mine has been completed and will be in use as soon as the machinery can be gotten in. Some of the electric machinery has been received at Kingman and the balance will be here Monday. This will be forwarded by train to Keystone siding, thence to the mine by truck. All foundations have been put in and little time will be lost in the installing of the plant. As soon as the machinery is in commission sinking will be resumed on the new perpendicular shaft and a depth of 100 feet attained as soon as possible. The work of unwatering the old Buckeye shaft is in progress and the mine is being cleared of debris and caves to allow of the opening up and extraction of mill ores.

The Buckeye is under the management of W. W. Widdowson, consulting engineer, for M. B. Dudley and associates.

## RURAL AND BUCKEYE OPEN

The Rural and Buckeye mines recently reopened by New York capitalists furnished an agreeable surprise to those who were inclined to doubt the stories of the lusciously rich ore taken from the mines. The surprise came when the mines were unwatered and found to contain bodies of \$40 to \$50 ore still in place, as well as smaller quantities of very rich silver.

# RURAL AND BUCKEYE INSTALL MACHINERY

The Rural and Buckeye mines are now connected up with the big power line from the plant of the Desert Power and Water company at Kingman and as soon as the new machinery has been gotten in place the work of unwatering the Buckeye mine will be under way. An 800-cubic foot compressor, hoist and other machinery has come out to the mine and is being installed. The cement bases have been cast and are in readiness to receive the machinery.

The new shaft, which is to be the main working shaft on both Rural and Buckeye, has reached a depth of 70 feet, this work having been carried out by hand to this point. Beginning next week the new hoist will be in

commission and the work will be carried on with power drills. Within the next four months the shaft should be at the 500 level, the present objective. From that point the territory of the

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All the machinery has been installed at the Buckeye-Rural property, at Mineral Park, and the sinking of the new shaft will be under way by Monday of next week. The juice was turned on yesterday and the machinery was tried out today. The new Buckeye shaft will be sunk with three shifts of miners. The old Buckeye will be unwatered, a new Cameron No. 6 pump having been installed to replace the gasoline pump now in use. With the water reduced to the 150 level a drift will be carried into Rural ground and that property exploited. The new pump is expected to drain the mine and allow of sinking the new shaft without water impediment. As soon as the Rural vein is tapped by the deep level the Buckeye tunnel will be driven farther on the vein to ascertain if there are other ore shoots worth while. The Buckeye vein to the east of the main workings shows great width and is fairly well mineralized. The new shaft has reached a depth of nearly 100 feet, this work having been carried on by hand.

# WELL EQUIPPED FOR DEVELOPMENT

Kingman  
One of the finest plants of machinery in the state has been put in commission at the Rural-Buckeye mines, at Mineral Park. The plant consists of an electrically driven hoist, compressor of 800 cubic feet capacity, Cameron pump, automatic drill sharpener and everything needed in and about a well regulated mining property. The shaft is equipped with a big gallows frame and all possible safeguards. This shaft is now down close to 100 feet and is timbered up double-compartment with heavy timbers.

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The camp buildings are comfortable and commodious, there being separate sleeping quarters for the men and a general assembly or reading room. An excellent boarding house, office and other buildings make up the camp. The best water in the Mineral Park basin has been developed on the property and will be conveyed to a large tank on the sidehill above the camp, where pressure for fire or other purposes may be obtained. The camp is one of the best situated and ideal places in the county, lying picturesquely below the towering Sherum's Peak.

This property was operated many years ago and thousands of tons of rich silver ore was taken out and shipped to the smelters. So rich was some of the ore that thousands of dollars in specimens were taken from the property by people having mineral cabinets. These specimens adorn practically every cabinet in the world, no collection of minerals being complete without a silver specimen from

# RURAL-BUCKEYE MINE DEVELOPMENT WORK

The main working shaft on the Buckeye mine is being pushed rapidly downward and within the next thirty days it is expected that it will be deep enough to begin the crosscut to the Rural mine, and unwatering that property so that exploration may be carried on there. The old Buckeye shaft and the old works are almost clear of water. As soon as the mine has been drained men will be put to work clearing it of debris and catching up the bad places. Two crosscuts are under way from main tunnel level on the Buckeye to intersect other claims paralleling the property. The drift is being driven ahead and the face is now in a new shoot of high grade ore. This ore will be driven on and all the ground east will be opened at this depth. The property is looking better than at any time since the old work was discontinued some years ago.

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completely unwatered. The shaft which was sunk to a depth of 170 feet below the old tunnel level, was found to be small and in such poor condition that it was thought inadvisable to use it. A new vertical two compartment shaft is now being sunk in the footwall and to date has reached a depth of 130 feet. When this shaft has reached the depth of the old workings a crosscut will be run to the ledge and connection made with the old workings after which the sinking of the shaft will be continued to 500 feet or more.

In the old workings which have been unwatered there are three levels at approximate depths of 70, 123 and 170 feet. These levels have been opened up to the east to a considerable distance, just how far has not yet been ascertained, as in places there is much caving. Considerable stoping has been done, especially from the 125 ft. level, which appears to have been stoped right up to the tunnel level. These stopes have been filled with ore that at the present price of silver is greatly above what is considered good milling ore. From samples taken it is estimated that this stope filling will average 40 ozs. silver and with good gold values.

The ledge on this level, so far examined, averaged from 4 to 6 feet.

On the lowest level there are several small stopes in which the fill it is estimated will average about the same as in the large stope above.

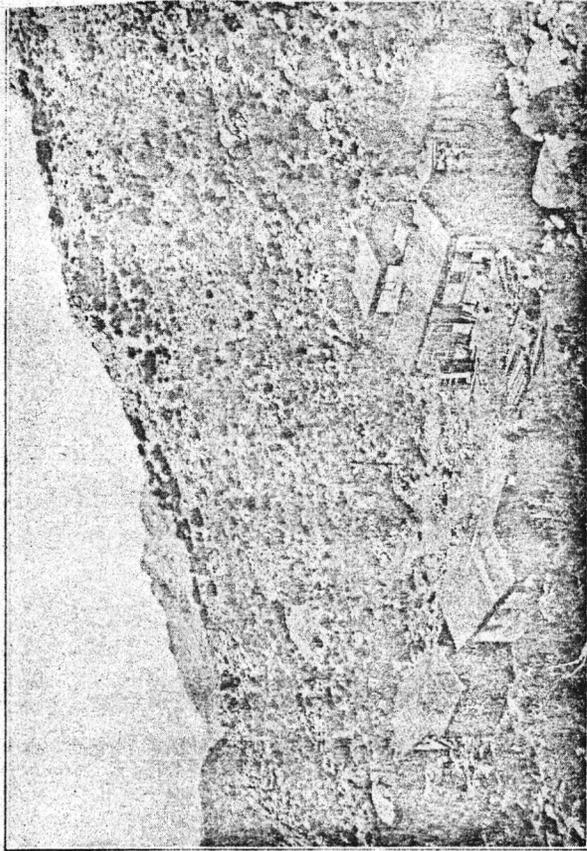
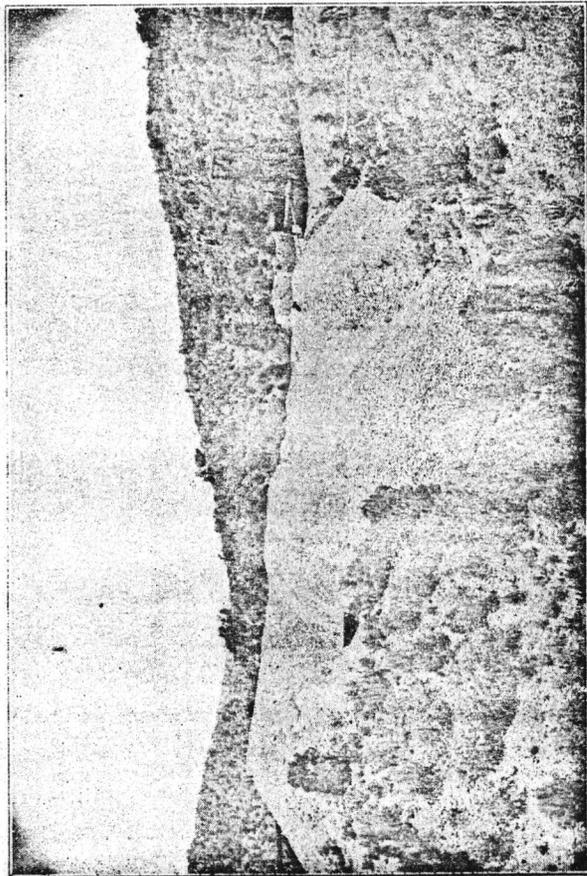
To the west of the shaft but little work appears to have been done and no stoping. The ledge here is of an approximate width of 6 feet and well mineralized, ruby silver predominating.

After connecting the old workings with the new shaft a development program will be undertaken. The lowest level will be drifted west on the ledge to connect with the old Rural shaft, where a recent examination shows



# Rural Mines, Discovered In 1884

*Kansas*  
*1918*



**A**LTHOUGH Mike Dunn had never seen a snake in all his days in the land of his birth yet it was a snake that brought him a snug little fortune and a cottage in the Emerald Isle. Mike Dunn had been a miner and prospector for years and when the call of fortune came it found him at Mineral Park. Dunn had been staked to prospect by the late Thomas J. Christie and for months he had combed the hills and ravines below the summit of Sherum's Peak without success. One day as he was struggling through the rocks and brush along the hillside he stirred up a rattlesnake. The snake at once disappeared beneath a rock, and Dunn began active operations to dig out the reptile and kill it. He not only succeeded in getting the snake but in the process of digging he uncovered a vein of ore that formed the future basis for his fortune, the Rural mine. Some of the ore was brought to town with him and caused

resulted in much activity around Mineral Park, but the Rural and Buckeye were the real producers of the camp until the silver depression in the nineties. But during the time they were in commission shipments of upward of \$200,000 were made from the property. The specimens of silver produced by these mines were among the most beautiful of any ever taken from old Mother Earth. Today there is not a mineral cabinet in the world that does not have a specimen of this ore. We have seen solid masses of silver, resembling a retort, from which radiated beautiful clusters of wire silver, some of these silver masses rising to a height of five and six inches from the base. Others laced the rock together in fantastic shapes. Many of the specimens showed the wires encased in calcite, the dazzling white wires of silver showing through the bluish tinged calcite. Calcite crystals covered masses of silver in many forms, but the general run of speci-

of hauls by truck instead of wagon and machinery and supplies are now being brought into the dumps of the mine. A new shaft has been projected that will be sunk to the 500 level and the entire property opened up. Laterals will be carried off from this shaft, which is to be on Buckeye ground, into the Rural and that property developed throughout its ore bearing area. It is probable that crosscuts will be carried into adjoining ground, where rich ore was taken many years ago.

The Rural vein shows big and strong in its outcrop, but the larger part of the vein has never been entered by shaft or drift, the old owners looking only for the high grade that was usually found in the smallest part of the property. Recent work shows that even the richer ores were not all extracted, as specimens of wonderful richness were found in the old works, and assays as high as 5,500 ounces were taken from the tunnel

ed quite a furor. The owners at once began the sinking of a shaft a short distance to the east of the point of discovery and this shaft was soon in the richest ore ever taken out in the camp. While the richest of the material taken from the openings was solid masses of silver and wonderful conglomerations of wire, the main body of shipping ore was an arsenical iron sulphide carrying high values in silver and gold. This discovery was made in 1884, and the railroad having come to Mohave county the ores were shipped to both the old Selby smelter at Vallejo, California, and the Philadelphia smelter, at Pueblo, Colorado. An immense tonnage of the ore was shipped, and so prominent did the mine become in the mining world that Dunn was offered and accepted a good price for his interest in the property. Christie refused to sell, although offered double the sum that Dunn sold for and continued in the ownership of the mines until his death. The Buckeye, the adjoining property also produced largely of silver ore and was more extensively worked than the Rural. No ore that ran less than 100 ounces silver was shipped from the property, because it would not pay for the mining, haulage to railroad, railroad freight and smelter charges. At that time all ores had to be hauled from Chloride and Mineral Park to Kingman for shipment, the wagon freight being quite high.

The operation of the two mines for years



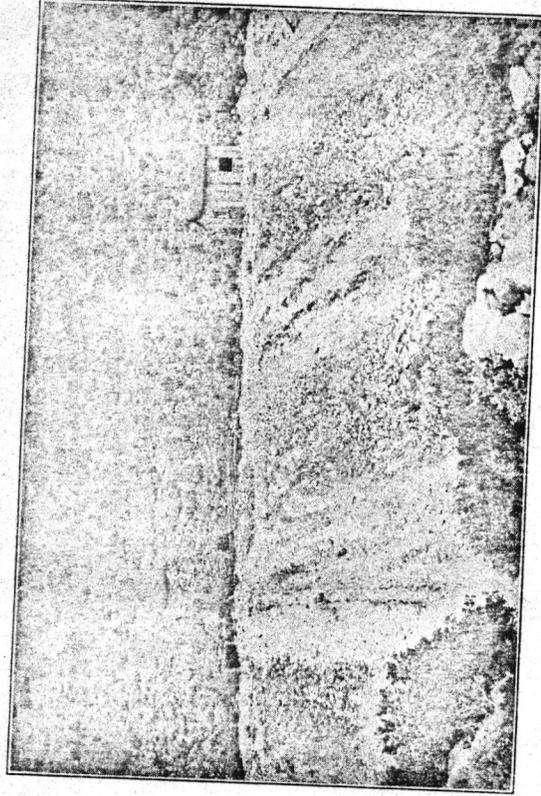
mens was solid wires of silver interwoven through the quartz gangue. No specimens of silver ever taken from a mine in the world approached these in beauty and thousands of dollars in rich silver specimens were high graded from the mine during its operation. Nothing was thought of a man taking a specimen away from the property, as they were so plentiful that no value was set on them, only shipping ore going into the sacks and yet we have seen these specimens bring from \$150 to \$500 each from mineral collectors. A cabinet in Kingman belonging to H. H. Watkins has one of these specimens from the Buckeye and many smaller ones that show the wonderful richness of the ore. The larger one has a silver content of 80 per cent, while the smaller ones are practically the pure quill.

A few months ago M. B. Dudley for himself and associates, G. C. Duschne, Samuel Well, Samuel I. Rabinovich, and Milton Gross, well known and prominent New York financiers, purchased the Rural and Buckeye mines. W. W. Widdowson, one of the best known mining engineers of the coast, made a favorable report on the property after an extensive examination. Already a good roadway has been built into the property, the old road having long since been washed out by the torrential storms that have beaten down on that country since the days when the mines were in active operation. This roadway has been built over easy gradients to allow

level of the Buckeye. Along this level splendid milling ore was found, and in the dumps a big tonnage was sampled that will make a big return by modern milling process. A company has been formed to operate the property with M. B. Dudley, consulting manager. A large plant of mill and mine machinery has been purchased and is on the way to Kingman, whence it will be hauled by truck to Mineral Park. This machinery will be in place within the next sixty days and the work of sinking the main working shaft will be undertaken. With the development of the mine will come the mill, which will be modern in every particular to handle the ores of both properties. As considerable ruby ore occurs in the ores a flotation plant will be required, but this is only one of the less important features that will be worked out. So far it has been estimated that enough ore is available to keep a large mill in operation until developments are carried on below the permanent change in the ore.

Electricity will be brought in for power and lights, the hoist and compressor being propelled by this juice. The camp is well established in a most convenient place near the mines, where a well of excellent water has been developed. When the property is fully in commission it will be one of the most ideal camps in the county.

The company is well financed, has a splendid management and the most promising silver-gold mines in the state to operate.



Copper Canyon Molybde-  
num Now Available.

NOV 28 1914

A successful separation of the molybdenite-copper ores of the Copper Canyon mines has just been made by the Minerals Separation company, at San Francisco. About six weeks ago Anson H. Smith forwarded a sack of the ore to this company and after trying it out by the oil process the company this week sent to him a flow sheet showing that not only was the molybdenite separated from the gangue, but the copper was taken from the molybdenite concentrate, although these two metals are almost the same gravity. Mr. Nutter, chief engineer of the company, is of the opinion that the ore could be handled successfully on a large scale. As the mines are capable of producing thousands of tons of the ores carrying from five to forty per cent of molybdenite we see no reason why this metal should not soon take the place of tungsten in the hardening of steel. It will certainly replace many of the steel hardening compounds now in use, particularly that of manganese, which just now is in great demand on account of the curtailment of the supply owing to the war cutting out the European production.

Molybdenum is one of the peculiar metals, that like tungsten, has been illusive when it came to introducing it into the steel mass, as it is so volatile that it will go off in fumes from the molten mass. A few months ago a chemist discovered a method of holding it in the mass and now it can be used as readily as any of the other metal alloys, and at the same time it is far more efficacious. Tungsten hardens, but molybdenum not only hardens the steel but also gives it toughness and adds greatly to its tensile strength. For this reason it has been much sought after, but only a small quantity has been found in the United States until the discovery of the great bodies of the ore along the big dike that traverses the country from Copperville to the districts east of Cedar. These veins are immense quartz outcrops, carrying copper and many of the other metals, such as gold and silver, and one of the veins shows lead in quantity.

The series of veins have had considerable work done on them the past six or eight years and now have large bodies of ore opened. Especially is this the case with the property known as the Whale group. An adit drift has been run in on the great vein outcrop a distance of about 200 feet, gaining a depth of more than 200 feet. Cross cuts show the vein to be more than twenty feet wide, through all of which runs high grade copper-molybdenite. A shaft is now to be sunk to a depth of about 100 feet to get below the oxidized zone, and drifts are to be run back under the big known ore bodies. Other work has been laid out and within a

COPPER CANYON—Rich copper ore was recently struck on this property, owned by Connor, Lassell, Smith, and Sawyer. The property is in the Wallapai mountains about 25 miles east of Yucca. The surface ores carry considerable molybdenite. The copper ore was encountered in a crosscut from a tunnel driven on the vein about 85 ft. in.

COPPER CANYON—The crosscut on the Whale vein has developed 16 ft. of ore carrying copper, lead and molybdenum. A tunnel has been driven 85 ft. on the vein and is in ore all the way, while a shaft sunk to a depth 30 ft. below the level of the tunnel shows copper-molybdenum ore. The property is owned by Smith & Sawyer, W. J. Connor and L. J. Lassell, of Kingman.

The Copperfield Porphyry Copper Mining Company is just about ready to make its initial 40-ton carload shipment of 6 to 8 per cent ore from its property at Gross Springs, 22 miles north of Kingman. But for delay experienced in obtaining teams to haul the ore from the mine to Keystone station, on the Kingman-Chloride branch of the Santa Fe system, a distance of slightly more than two miles, the initial shipment would have been made at an earlier date. General Manager O. A. Turner estimates that the company will make a carload shipment every four or five days. He has arranged with the Arizona Consolidated Smelting Company to treat the output at its smelter at Humboldt, Arizona, until the erection of a 100-ton daily capacity concentrating plant on the property. It is planned to have the proposed mill completed and running by the middle of April next. The development of the property is going steadily ahead and the available tonnage of ore daily increased. The first churn drill hole sunk by the company was put down to a depth of 64 feet, the lower 27 feet of which disclosed ore averaging better than 3 per cent copper. The drill encountered a "nest" of exceedingly hard boulders, and for that reason it was pulled at the depth named. A second hole has been started at a point near the present face of the shallow crosscut tunnel which has thus far intersected the ore body for a distance of 130 feet, revealing ore carrying from 3 to 25 per cent copper.

The sinking of the main shaft on the Golconda Extension from the 280-foot level to the 400-foot point has been completed by the contractors and the management is now cutting a station preliminary to the extension of a north drift on the vein to pick up the ore body, which above the former named level yielded over \$300,000 worth of ore. It is estimated that to reach the objective point from 40 to 60 feet of drifting will be necessary.

ARTICLES OF INCORPORATION  
of  
COPPERFIELD PORPHYRY COPPER  
MINING COMPANY.

KNOW ALL MEN BY THESE PRESENTS: That we, Charles Metcalfe and R. L. Dimmick, have this day associated ourselves for the purpose of organizing a corporation under the laws of the State of Arizona, and for that purpose do hereby make, adopt and publish the following articles of incorporation:

ARTICLE I.

The names, residences and postoffice addresses of the incorporators of this corporation are as follows:

Charles Metcalfe—Kingman, Arizona.  
R. L. Dimmick—Kingman, Arizona.

ARTICLE II.

The name of this corporation shall be "Copperfield Porphyry Copper Mining Company" and the principal place for the transaction of business shall be Kingman, Arizona, and the corporation shall have the right to establish and maintain offices at such other place or places either within or without the State of Arizona, as the board of directors of this corporation may from time to time designate.

ARTICLE III.

The general nature of the business proposed to be transacted by this corporation is as follows, to-wit:

To carry on a general mining, milling, smelting and reduction business, and for that purpose to buy, sell, own, hold, acquire, lease, locate and otherwise deal in mines, mining claims, millsites, lodes and placers, and all other kinds of mining property; to work, operate and develop all kinds of mining properties, and mine and reduce the ores therefrom; to sell and otherwise dispose of any products derived from the working of any mining property, or the reduction of any ores; to buy, build, construct, own, hold, operate, sell, acquire, lease or otherwise deal in all kinds of mining and machinery, mining equipment, mills and milling machinery, smelters and smelting machinery, reduction plants and machinery of every kind and character; to buy, sell, hold, own, lease, control, operate and maintain such railways, tramways, transportation facilities, telegraph lines, telephone lines and other methods of transportation and communication as may be necessary for or incident to the general business of this corporation; to buy, sell, own and hold the stock and securities of other corporations; to acquire, develop, locate, lease and deal in water and water rights, and to use and control the same for all lawful purposes; to do a general merchandise business, and to carry on such other lines of business as may be incident to the general business of this corporation, and to do every act and thing necessary in the carrying on of a general mining, milling, smelting and reduction business.

ARTICLE IV.

The capital stock of this corporation is and shall be one million dollars, divided into one million shares of the par value of one dollar each, which stock shall be issued at such times and upon such conditions as the board of directors may prescribe, and the board of directors are hereby authorized to issue any or all of the capital stock of this corporation in consideration of the payment thereof in cash, or the transfer to this corporation of property, rights, franchises or interests of any description, or services rendered or to be rendered, and the valuation or appraisal of the board of directors of any property, rights, franchises, interests, services rendered or to be rendered, shall be binding and conclusive upon the stockholders of this corporation and all persons dealing with it.

ARTICLE V.

The affairs of this corporation shall be managed, administered and controlled by a board of directors consisting of not less than three nor more than five bona fide stockholders, a majority of whom shall constitute a quorum for the transaction of business; which directors shall hold office for two years, and until their successors be elected and qualified. The board of directors shall be elected biennially at a regular meeting of stockholders, which meeting shall be held on the second Tuesday of November of each even-numbered year, at the principal place of business of the corporation. Provided, that until the first biennial meeting above referred to, Charles Metcalfe, M. B. Turner and R. L. Dimmick of Kingman, Arizona, shall constitute the board of directors and a majority of the board of directors shall have the power to fill vacancies occurring in said board, or to increase the number of directors within the limitations above set forth.

ARTICLE VI.

The officers of this corporation shall be a president, a vice president, a secretary and a treasurer, and such other officers and agents as the board of directors may from time to time appoint. The officers so mentioned shall be elected by the board of directors from among their own number and as soon as practicable after their own election, which officers shall hold office until the next biennial meeting of the stockholders, and until their successors shall be elected and qualified. Provided, that until otherwise provided by the board of directors the officers of the company shall be as follows: President, R. L. Dimmick; vice president, M. B. Turner; secretary and treasurer, Charles Metcalfe.

ARTICLE VII.

The board of directors shall have the power

1916  
KINGM.  
PORPHYRY COPPER  
SINKING NEW HOLE  
ON BIG ESTATE

The Copperfield Porphyry Copper Mining Company, which got its drill fast in the last hole and had to drive across from the tunnel to help loosen it up at that level, has at last released the drill and a new hole will be started at once. The drill in No. 2 hole was in copper to a depth of more than 50 feet and in the hard material at the bottom it was in excellent values.

The tunnel is being driven ahead with the ore still holding its value. It is intended that this drift will be carried as far as possible, to ascertain the actual width if possible of the ore-bearing material. The shaft, 600 feet ahead, is in good ore, which would indicate that every foot intervening between drift and shaft is pay.

The big porphyry coppers continue to hold the boards in Mohave county's mining center. With the opening of the great ore body by the Copperfield company other companies are getting in, and it will be but a few weeks until that section has many mining companies in operation. A representative of a big copper company was in the field this week in an effort to get a foothold, but so far without success.

O. A. Turner, who was really the discoverer of the Ray, and who found that the porphyrys of Mineral Park were copper bearing, is to be credited with one of the biggest propositions in the State. It is due to his knowledge and effort that the coppers of the county are now being investigated and within the next two months we expect to see one of the biggest propositions in the country opened in the Mineral Park region. A drilling plant is on the ground and by the first of the week should be in operation. The drilling of the big ore zone is the one thing necessary to prove up the value and extent of the holdings of the company, and this Mr. Turner purposes doing as rapidly as the drills can be driven into the deposit. There has been no diminution in value of the ground, although the big deposit has been cut for more than 170 feet, and in the shaft the same grade of ore has been found, fully 600 feet ahead of the drift.

Samples taken from the last output of the drift gave an average value of 17 per cent copper and also carried some gold and silver values. Shipments are now being made from the property to the smelter, and it is expected they will be continued.

"Copperfield drill shows 46 feet of ore and no signs of bottom," reads a telegram from Kingman, received by A. F. Houser. The telegram tells of the latest development in the property of the Copperfield Porphyry Copper company in Mohave county, in which several Globe people are shareholders. Mr. Houser has a sample of sulphide ore from the Copperfield mine that goes 15.46 per cent copper, as shown by an assay made by a local assayer.

A drift 80 feet in the orebody is the latest mail advice received here. The ore in the drift is of the same character as the sample received by Mr. Houser, and the company is shipping 40 tons of this ore daily to the Humboldt smelter.

The company is prospecting with churn drills what is believed to be a very large body of disseminated copper with encouraging results thus far.

Copperfield Porphyry Copper Mining Company began the work of exploiting its big acreage near Mineral Park yesterday and expects to be in ore today. The big drilling plant was taken to the ground the first of the week and spudding was inaugurated early yesterday morning. The ground is soft and it is probable that twenty feet a day will be made in sinking, although it could be increased to fifty feet. Every foot of the ground will be carefully sampled, which necessitates the slow drilling operation.

The track has been laid in the tunnel and the resumption of drilling in the face will be resumed Monday.

The shaft has reached a depth of forty feet, and while the material so far has been gossen, the last ten feet shows material change for the better, assays in copper being obtained. This shaft is 1000 feet ahead of the breast of the tunnel and no doubt exists that the same grade of ore will be found in it that is now being taken from the lower level.

A force of carpenters is at work erecting bunkhouses, boarding houses and other necessary buildings at the mine for the accommodation of the men and in preparation for the increase of the force.

Drivers have been sent to Phoenix to bring back two large trucks for the purpose of hauling ore from the mine to the railroad, and as soon as they arrive shipments to the smelter will go forward daily. The ore is of such grade that large tonnage of 15 per cent material can be sent out.

GROSS COPPER MINE

BEING DEVELOPED

OCT 25 1915

John F. Gross and A. Vincent are sinking the shaft on the copper mining claim known locally as the Gross copper mine, and are getting wonderful results. The shaft is all in ore, some of it running high in native copper. Those who have visited the property report that it is one of the most promising propositions they have seen in that country. O. A. Turner has an option on the property.

SAYS GROSS PROPERTY  
IS SHOWING UP WELL

*Kingman 9/11/20*  
A. Vincent, who has been doing

the annual assessment work on mining property belonging to himself and John Gross, in what is known as Gross Wash, near Mineral Park, is in Kingman. He reports that the work has disclosed good ore bodies in the properties, copper being found in every one of them.

The properties were drilled to some extent a few years ago and copper values were found to a depth of the holes. At the water level the copper appears in light sheets of native and many beautiful specimens have been recovered. The main values are contained in bornite, there also being some gold and silver values in all the ores. The locality is well mineralized, the lower part of Mineral Park basin being highly impregnated with copper, a flow of iron probably causing the copper waters to be thrown down in native form.

LEGAL NOTICES

of every description whenever required; To construct, carry out, maintain, improve, equip, manage, control and superintend any roads, ways, private tramways, bridges, reservoirs, water courses, aqueducts, wharves, piers, docks, bulkheads, furnaces, mills, crushing, concentrating and smelting works, hydraulic works, factories, dwelling houses and warehouses; to purchase vessels or other means of transportation, except railroads other than private railroads, and equip and operate the same as required for the uses and purposes of the company and also to do any other acts and things relating to mining.

To buy, sell and deal in ores and minerals, plants, machinery, tools, implements, groceries, provisions, clothing, boots, shoes, furnishing articles, hardware, wooden and metallic ware, with all other articles and things in any wise required or capable of being used in connection with mining operations, and to make and manufacture such articles when required;

To purchase, take, own, hold, deal in, mortgage or otherwise lien and to lease, sell, exchange, transfer or in any manner whatever dispose of real property, wherever situated.

To manufacture, purchase or otherwise acquire and to hold, own, mortgage, pledge, sell, transfer or in any manner dispose of, and to deal and trade in goods, wares, merchandise and personal property of any and every class and description and wherever situated.

To acquire the good will, rights and property and to undertake the whole or any part of the assets and liabilities, of any person, firm, association or corporation; to pay for the same in cash, the stock of this company, bonds or otherwise; to hold or in any manner to dispose of the whole or any part of the property so purchased; to conduct in any lawful manner the whole or any part of any business so acquired and to exercise all the powers necessary or convenient in and about the conduct and management of such business.

To guarantee, purchase or otherwise acquire, hold, sell, assign, transfer, mortgage, pledge or otherwise dispose of shares of the capital stock, bonds or other evidences of indebtedness created by other corporations and while the holder of such stock to exercise all the rights and privileges of ownership, including the right to vote thereon, to the same extent as a natural person might or could do.

To purchase or otherwise acquire, hold, use, sell, or in any manner dispose of and to grant licenses or other rights therein and in any manner deal with patents, inventions, improvements, processes, trade-marks, trade-names, rights and licenses secured under letters patent, copyrights or otherwise.

To enter into, make and perform contracts of every kind for any lawful purpose, without limit as to amount, with any person, firm, association or corporation, town, city, county, state, territory or government.

To draw, make, accept, endorse, discount, execute and issue promissory notes, drafts, bills of exchange, warrants, debentures and other negotiable or transferable instruments.

To issue bonds, debentures or obligations and to secure the same by mortgage, pledge, deed of trust or otherwise.

To purchase, hold and re-issue the shares of its capital stock.

To carry on any or all of its operations and business and to promote its objects within the State of Delaware or elsewhere, without restrictions as to place or amount.

To carry on any other business in connection therewith.

To do any or all of the things herein set forth to the same extent as natural persons might or could do and in any part of the world, as principals, agents, contractors, trustees, or otherwise, alone or in company with others.

FOURTH. The total authorized capital stock of this corporation is Two Million dollars, (\$2,000,000) divided into Two million (2,000,000) shares of the par value of one dollar, (\$1.00) each.

The amount of the capital stock, with which it will commence business, is one thousand dollars, (\$1,000) being one thousand (1,000) shares of the par value of one dollar, (\$1.00) each.

FIFTH. The name and place of residence of each of the original subscribers to the capital stock and the number of shares subscribed for by each are as follows:

Name Residence Number of Shares  
William F. O'Keefe, Wilmington, Delaware, 334.

LEGAL NOTICES

GEO. G. STIEGLER (Seal)  
J. H. DOWDELL (Seal)  
In the presence of  
EDMUND S. HELTINGS

STATE OF DELAWARE,  
County of New Castle—ss.  
BE IT REMEMBERED, that on this twenty-fifth day of September, A. D. 1919, personally appeared before me, the subscriber, a notary public for the state of Delaware

William F. O'Keefe  
Geo. G. Stiegler  
J. H. Dowdell

parties to the foregoing certificate of incorporation, known to me personally to be such and severally acknowledged that they signed, sealed and delivered the same as their several voluntary act and deed and that the facts therein stated were truly set forth.

GIVEN under my hand and seal of office the day and year aforesaid.

EDMUND S. HELTINGS,  
Notary Public.  
Edmund S. Hellings, Notary Public for the State of Delaware. Appointed Mar. 15, 1919. Term of office two years.

STATE OF DELAWARE  
OFFICE OF SECRETARY OF STATE  
I, EVERETT C. JOHNSON, Secretary of the State of Delaware, DO HEREBY CERTIFY, that the above and foregoing is a true and correct copy of Certificate of Incorporation of the "MINERAL PARK MINES, INC.," as received and filed in this office the twenty-fifth day of September, A. D. 1919, at 1 o'clock P. M.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal, at Dover, this twenty-fifth day of September in the year of our Lord one thousand nine hundred and nineteen.

EVERETT C. JOHNSON,  
(Seal) Secretary of State.

Filed and Recorded at Request of  
CARL G. KROOK Nov. 10 A. D. 1919  
at 30 minutes past 3 o'clock P. M. in  
Book 5 of Incorporations Pages

Records of Mohave County, Arizona.  
I. R. BARTHOLOMEW,  
County Recorder.  
By MARY CARROW,  
Deputy Recorder.

First insertion Nov. 15-1919.  
Last insertion Dec. 20-1919.

The George Washington mine, at Mineral Park, is breaking ground for a mill. A find of rich silver ore is reported from there. *May 26-17*

The trial run at the George Washington mill, at Mineral Park, was a complete success. The plant is now in continuous operation, making an extraction of 92%. *9-14-18*

*Mohave*

# Historic Mineral Park *Sept 26, 1910* Mines Sold This Week, Redevelopment Started

## George Washington Group Produced Rich Ores Early in 60's. Mrs. R. A. Ward, V. F. Ryan New Owners, \$45 Ore Reported

It is reliably reported that an important mine transaction was consummated this week whereby the George Washington group of six mining claims in the Mineral Park area has been acquired by Mrs. R. Ward of Prescott and V. F. Ryan of Kingman.

Electric power facilities have been installed on the property and the work of dewatering the 200-foot shaft will be started immediately. While this work is progressing a force of men will be employed in cleaning out the 1300-foot tunnel. Track is being laid and a compressor installed with pipe lines preparatory to an extensive development program on a three-foot vein of gold-silver ore reported carrying values as high as \$45 per ton at the bottom of the shaft. A new road has been built to the property eliminating the old burro trail that heretofore has been in use.

This property was originally located in the early 60's and shortly after development started a ten-stamp mill was erected. It is claimed that due to the excessive

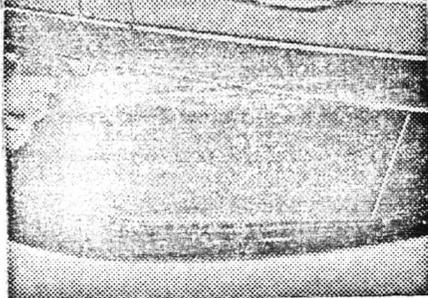
### Historic Mineral - - -

(Continued from Page 1)  
was allowed to fill with water and the property otherwise go into decline. Much interest is manifested at the present moment in what will be found when the shaft is unwatered as miners who worked in the shaft often spoke of the rich streak of ore present in the deeper workings.

In the tunnel now being cleaned out there are known to be several streaks of good ore and it is the intention of Mr. Ryan, in charge of the work, to lease these locations while the unwatering and development of the deeper workings is being prosecuted.

Drifting is progressing on an ore shoot in the George Washington mine near Kingman in the Mineral Park district. Two slopes have been opened and the operators have shipped two carloads of ore. The property is being operated by Mrs. R. A. Ward of Prescott and V. F. Ryan of Kingman. Values are in gold and silver.

# MILL Samples



Yesterday completed the sacking of two carloads of high-grade ore at the George Washington and shipment will be made immediately.

Extensive development of the property is now being pushed and the mine is fast becoming one of the most prominent in the Cerbat range.

The Washington was recently purchased by John D. Fields and associates from E. J. Hoover and it was the latter's prediction that it would be a winner if given half a chance.

It is said the ore now sacked and ready for shipment will run from 30

to 50 per cent in copper, besides the gold and silver values, which are also very fair. Some of the ore taken from the mine will run exceedingly high in copper, according to Mr. Hoover's statement.

The new bunk houses and other buildings are practically completed and the new machinery is being installed as fast as it arrives.

Messrs. Fields and Reese returned Thursday from Los Angeles, where they conferred with their associates regarding the development campaign to be started.

Kingman—George Washington mines and mill sells for \$150,000. Mill to be put in operation soon. *no sales*

## TRIAL RUN AT GEORGE WASHINGTON SHOWS HIGH RECOVERY WITH FLOTATION

The trial run of the George Washington mill, at Mineral Park, has been completed and was an entire success. The plant is now being operated regularly on ore from the mine and is extracting better than 92 per cent of the metal. This is a wonderful extraction from an ore that carries its values in ruby and native silver, as well as copper oxides and native copper. Just how these results are obtained is announced to be the proper mixing of high grade oils and maintenance of steady flow through the launders from the batteries. The company has in charge of the mill a man with years of experience in the north and who is practical in every way in the handling of ores.

**George Washington Mine (Mineral Park)**—Two carloads of high grade ore have been sacked and ready for shipment, this lot of ore, it is said, will run about 30 per cent in copper, besides the gold and silver content. Buildings are being constructed and new machinery is being installed.

### MINE WARNING NOTICE

*Kingman*  
TO WHOM IT MAY CONCERN:  
Notice is hereby given that the George Washington, Thermos, Noonday, Missing Link, Bill Taft and Cornish Boy mining claims, situated in the Wapapai Mining District, Mohave County, Arizona, are under lease and bond to W. G. Page, who is working the same, and that neither the owner nor the owner thereof will be responsible for any labor or debt contracted, nor injuries sustained by any employer or employe in working said property; and that no employer or employe is the agent of the owners for any purpose, and that all operatives engage in such service at their own risk, and that no debt or claim or debt is valid against said mining claim or their owners.

JUN 21 1918  
JOE MOYLE,  
Dated Mineral Park, Arizona, July 18, 1918.  
First insertion, July 20, 1918.

**The George Washington Sold**—  
The George Washington Group was sold this week to W. C. Page of San Francisco.

The sale price is said to be \$150,000, the payments extending over a year. *MAY 22 1918*

Mr. Page left for San Francisco and will return sometime next week after which men will be started to work immediately overhauling the machinery. A shaft will be sunk to the 250-foot-level and a cross cut of 300 feet made.

It is said the new owners will

be running the mill within two months.

On the George Washington Group there are two veins of known values, uncovered, one three feet wide running high in values and another six foot vein running \$15 to \$25. Enough ore is in sight to run the mill several years.

\* \* \*