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KATHERINE MINE BEING EQUIPPED TO PUSH WORK WITH GREATER SPEED

With a view to the development of the rich ore bodies in the Katherine mine, which have been opened on four levels, and to a depth of 400 feet, and to their further development at deeper levels, a larger plant of machinery has been ordered for the mine. The new equipment includes a hoist with lifting capacity from a depth of 1,000 feet, a large compressor, a Cameron sinker pump, and accessories. The new equipment will probably be in commission on or before November 1st, at which time the plant now in service at the collar of the Katherine shaft will be removed to the Pyramid property, adjoining on the southwest.

From surface to a depth of 400 feet the blocked out ore in the Katherine mine has a value in excess of two million dollars, and an average value of \$14.46 gold per ton. On each of the four levels already established the ore bodies prevail strong and well defined in the drift headings. These conditions demonstrate that the possible ore, which may be developed in the areas beyond the blocked out reserve, will add at least two million dollars to the value of the property, without taking into consideration the ore that will be developed in the downward extension of the immense Katherine vein. This vein has a breadth of from 15 to 65 feet, and an average breadth of 33 feet. It carries extensive lenses of ore which assay from \$80 to as high as \$293 gold a ton.

On last Sunday the property was visited and inspected by Chas. Sutro of San Francisco, who dominates Katherine affairs; by E. W. Clark of Los Angeles, a prominent official of the Union Oil Company, and Ben Goodwin, a prominent insurance man

of San Francisco. Messrs. Clark and Goodwin were very much impressed with the extent and value of the ore bodies, and expressed the opinion that the Katherine mine will become one of the large gold producers of the West.

At the conclusion of the inspection, Mr. Sutro stated that as soon as the new surface equipment is in commission, the working force will be largely increased, and the property developed on a scale fully in keeping with its demonstrated worth. This means that the ore bodies exposed on each of the four levels will be further developed laterally, and that the downward extension will be opened by means of the winze now being sunk on the 400-foot level, and by the deepening of the main shaft which at present has a depth of 400 feet.

To further development work in the winze a 25 horse power hoist and a No. 5 Cameron sinker pump have been installed. A 50-ton ore pocket has also been erected near the collar of the winze. The objective of the winze is a depth of 300 feet, where a drift will be extended to a point directly beneath the shaft. The shaft will then be connected with the drift by a raise. The winze is being sunk in ore and at a depth of 25 feet grab samples return gold values of from \$16.40 to \$320 a ton. From surface down the bonanza Katherine vein has gradually increased in gold content, and the further increase as demonstrated in the bottom of the winze, is accepted by mining men as being indicative of a greater enrichment of the ore body in the area between the 400-foot level and the proposed 700-foot level. The belief is general that the area between these two points will hold at least two million dollars worth of ore.

SIXTEEN YEAR OLD BOY DRIVES PICK INTO HEAD OF HIS BENEFACTOR

One of the most brutal murders in the annals of Mohave County was attempted last Sunday night by a 16-year-old boy, Leo Long, upon the man who had acted as his benefactor, Dr. L. Taylor. The scene of the attempted homicide was about 2 1/2 miles east of Kingman, where the principals were camping near the highway.

Camp had just been made and Dr. Taylor was sitting in a half reclining position near the camp fire when Long came up from behind and attempted to drive a pick into his head. The first blow penetrated his scalp to the skull, tearing a gash about two inches long and then glancing off. Long then swung a second time and fortunately hit the intended victim's hand, which he had thrown up for protection. This time the point of the pick tore open a finger and then glanced off onto the doctor's shoulder, sinking in a couple of inches.

When the first blow was struck, a 15-year-old lad who was also in the party, Clewett Champagne, ran screaming to the Sargent home a few hundred feet away. This evidently unnerved the would-be murderer and he ran for the hills.

The pick that was used in the attempted murder had been carried in back of the doctor's car for some time, and had a handle about 2 1/2 feet long and prongs 7 or 8 inches in length. The prongs were exceptionally sharp and as the doctor afterward said, "If he had landed a straight

blow it would have sunk into my skull and he would have had himself a car." The car was what the boy was after, and according to testimony of the younger boy Long had planned for two or three days to kill the doctor, a big, good-natured Texan, and take his car. He had told the little boy of his plans, threatening to kill him if he told.

Dr. Taylor was riding alone in the car when he picked Long up about ten miles out of Barstow. Long was on the tramp and the doctor, who lost a son of his own a few years ago, and who naturally likes boys, gave him a ride. The plan to murder his benefactor, using the pick, developed soon after. At Ludlow the other little boy was picked up. He was also on the tramp.

At each stopping place Long had suggested to the doctor that they camp out a little ways from the rest of the campers, but they did not do so until they reached here. After camp had been made the doctor was sitting near the fire, and Long had taken the pick out of the machine and was using it to clear away the brush for a place to make his bed. The doctor noticed the pick and told him he had better put it back in the car so they would not forget it in the morning. A few minutes after this the attempt at murder was made. The time was about 7 in the evening.

When Long beat it for the hills Doc- (Continued on page 4)

MUCH INTEREST BEING DISPLAYED AS EASTERN NUMBER 3 SHAFT GOES DOWN

Number Three shaft of the United Eastern Company is the center of mining interest both in Oatman and in mine investment circles on the coast. Numerous inquiries have been received here from San Francisco, Los Angeles, Chicago and other financial centers, as to the progress that is being made in driving the new shaft to the depth where crosscutting to the Red Cloud vein will be started. The new shaft is located near the west line of the United Eastern estate and between the Red Cloud shaft of the Tom Reed Company and the boundary of the United Western Mines Company property. The increasing mine development now noticeable in the new Katherine district is bound to stimulate further the mining interests in the Oatman district, but Oatmanites are depending upon Number Three shaft of the United Eastern Company to make a boom here.

At a depth of 700 feet values are being secured in the Red Cloud shaft of the Tom Reed Company. This shaft was also cut on the 400 and values run about \$7.00. This shaft is located east of Number Three shaft of the United Eastern Company, and between the main ore body of the United Eastern and the United Western properties. Several years ago a vein was cut at a depth of 500 feet on the United Western estate, within a few hundred feet west of the point where Number Three shaft of the United Eastern Company is being sunk. Values in the vein where opened in the United Western workings were above a milling average at points, but the vein itself is badly shattered there.

Number Three shaft on the United Eastern property was started with a view to sinking a depth of 800 feet and then crosscutting to the Red

Cloud vein; now, however, it has been decided to sink the shaft to a depth of 1,000 feet before crosscutting, diamond drilling operations having demonstrated that the vein crosses the United Eastern estate, and probably the United Western property.

At the thousand foot level in Number Three Eastern shaft, therefore, a large body of ore will probably be encountered. The belief is general here that this ore body will be fully as rich and extensive as the main United Eastern ore body.

The results which may be expected as a result of development work in Number Three Eastern shaft will have a direct bearing upon the ore bodies in the Red Cloud holdings of the Tom Reed Company. Similarly, the property of the United Western Company is concerned in this development work, as the continuation of the vein is through Western ground. Dr. Walter Harvey Weed, the world-noted geologist and mineralogist, made an inspection of the United Western several years ago, and submitted a report to the management stating that the continuation of the Tom Reed-United Eastern vein system would, in his judgment, be opened at depth on the Western estate. United Western was a great favorite on the exchange and curb during the Oatman boom, and is again showing price animation.

That the United Eastern Company is conversant with underground conditions along the strike of the Red Cloud vein is assured, as had the diamond drilling operations not shown values, there would have been no reason for the sinking of Number Three shaft. The management of the United Western is preparing to re- (Continued on page 4)

WORK IN KATHERNE SECTION GOING AHEAD RAPIDLY

By William P. De Wolf

Goldmining operations in the Katherine district were amplified this week by the starting of crosscuts in the Gold Chain and the Katherine Extension workings; by the placing of machinery at the Katherine and Revenue properties; by a marked change of formation and increase of gold values in the Adams shaft; by the discovery of free gold ore for a length of 200 feet along the strike of the vein on the Nevada-Katherine property, and by the financing of a number of the mining groups in Los Angeles and other financial centers.

At the Gold Chain mine, where approximately \$1,000,000 worth of ore is already in sight after less than a year's work, a crosscut has been started in the east drift on the 100-foot level at a point 350 feet from the shaft. There is a slight faulting of the vein at this point, hence the new crosscut to and through the 46-foot vein will be somewhat longer than the two crosscuts already driven. It will serve to block out ore in a section 100 feet long in the area to the east of the crosscut that was driven to and through the vein at a point about 125 feet from the shaft.

The big east-west bearing Gold Chain vein was first crosscut directly at the shaft, and at that point camped an average of approximately \$16 gold a ton. Like values prevail in the second crosscut through the vein, and the mineralogical conditions favor the prevalence of like values at the present point of operations.

Crosscutting to the northeast continuation of the rich Katherine vein was started last Tuesday at a depth of 250 feet in the Katherine Extension shaft, with the conditions favorable for early contact therewith. The Katherine Extension property adjoins the Katherine mine and in the opinion of mining men will be the third property in the Katherine district to open and develop ore. It is well equipped with mining machinery and is being worked under the supervision of Sam Brethour, formerly a successful mine leaser and contractor at Cripple Creek and other Colorado camps. A complete financing of the Katherine Extension is said to have been accomplished in Los Angeles.

A 25 horsepower hoist and a No. 5 (Continued on page 4)

KATHERNE STOCK TO BE LISTED ON N. Y. CURB

Katherine shares are to be listed on the New York curb, and will probably be called there for the first time not later than November 15th. Mr. Chas. Sutro, of San Francisco, who is in control of the Katherine Company, will represent Arizona at the Chicago session of the American Mining Congress, October 17-22. At the close of the convention, Mr. Sutro will go to New York and arrange for the immediate listing and calling of Katherine shares on the New York curb.

The effect of the listing of Katherine stock in New York will, it is believed by Pacific Coast brokerage and mining men, be of inestimable benefit to the Katherine district as a whole. It will serve to bring to the attention of Atlantic Coast investors in mining securities the unusual money making opportunities offered by mining propositions in the Katherine district. The fact that there is better than two million dollars worth of ore already blocked out in the Katherine mine workings, will be called to the attention of the Easterners by the brokerage houses which may be selected to handle the stock on the curb, and this will tend to stimulate the interest there in Katherine mining properties—and interest which has already been created by the publicity given the Katherine district in the Eastern press.

Treasure Vault is another stock that is scheduled for immediate listing on the San Francisco and Los Angeles exchanges. The property is immediately adjacent to the bonanza Katherine mine, and at surface and nominal depth yields gold values as high as \$10 a ton. It is being developed under the supervision of Sam Brethour, and old-time Colorado mining man, and is considered to be one of the most promising partially developed prospects in the Katherine district. The development program calls for the sinking of a double-compartment and extensive lateral work. To expedite this work a powerful plant of machinery is to be installed.

CHAMBER OF MINES ASKS DEFEAT OF BILL AND FOR LOWER FREIGHT RATE

Last Tuesday night the ladies of the Thursday Afternoon Club were guests at the meeting of the Chamber of Mines and attended in full force to see what this organization was doing. They went away with a better understanding of mining in Mohave County. President M. B. Dudley welcomed the ladies and the president of that organization, Mrs. C. A. Warren, responded.

A resolution was drawn up at last Tuesday's meeting asking Congress to not accept House Bill 7736, which would change the mining laws of the nation in a way that would be detrimental to the prospector. This resolution, with a letter, was sent on to Washington. The resolution was drawn up by a committee consisting of Carl G. Krook, R. S. Billings and Ross Blakely.

The meeting was sorry to hear that M. B. Dudley, who had been selected by Governor Campbell to represent the State of Arizona at the American Mining Congress at Chicago next week, could not attend. Mr. Dudley had wired his regrets to Governor Campbell upon finding that business pre-

vented his attending the convention, whereupon the Governor had wired back asking him to suggest someone in his place. Mr. Dudley suggested R. S. Billings and his appointment was later approved by the Governor. The meeting Tuesday night went on record as favoring Mr. Billings' appointment. A fund of several hundred dollars was raised for his expenses and Mr. Billings will leave tonight for Chicago.

M. L. Powers, president of the Arizona Central Bank, was present at Tuesday's meeting, commending the work of the organization. Mr. Powers spoke optimistically concerning the financial situation generally throughout the state.

The question of freight rates was taken up again and a committee consisting of Carl G. Krook, R. W. Wilde and I. C. Bateman was appointed to draw up a resolution to send to Congress asking for lower freight rates.

Maps and pamphlets are being sent out from the Chamber of Mines daily as well as many answers being sent to those inquiring about the district.

GO INTO BUSINESS AT TRISTATE AND KATHERINE CITY

In the news of the week from Katherine City and Tristate, the two new towns in the Katherine section, we have the following: P. D. Brown and Vic Myers are opening a restaurant at Tristate. Both of these gentlemen were in Kingman yesterday purchasing supplies for the new business. They will conduct the restaurant in the Cushman Building, Vic Myers taking active charge of the place.

Work is now under way on moving a large hotel building from Searchlight to Tristate. This hotel has 32 rooms. It will be torn down, moved and rebuilt at Tristate.

J. W. Hoogue has purchased the old Rawdin restaurant at Katherine City and has already taken active charge. Mr. Hoogue, it is understood, is purchasing some lots at Katherine also.

Hugh McCloud has opened a rooming house at Katherine City and S. H. Linka has put up a large garage building.

Chester Mills is now in charge of the fruit and vegetable department of the Arizona Stores Company.

Mrs. A. G. Cushman motored to Jerome this week to spend a few weeks with her sister.

APPEAL OF MINNIE WILSON DISMISSED BY SUPREME COURT

Attorney Carl G. Krook received word yesterday from the Supreme Court that their motion to dismiss the appeal of Minnie Wilson in the George Miller will case had been granted, and that the appeal was dismissed. This finishes the Miller will case fight so far as Minnie Wilson is concerned, and ends a period of several years' hard work by Mr. Krook and his associates, and Mr. Watkins, the administrator, under Mr. Miller's will which was admitted to probate March 26, 1920. Robert E. Morrison of Prescott has been associated with Mr. Krook in this case. The fight has been going on since 1917. The appeal was taken from the order of the court denying the application of Minnie Wilson to re-open the case on the ground, as asserted in her petition, that she was the daughter of the deceased.

Under the will admitted to probate, of which Mr. Watkins is administrator, Mr. Miller left his entire estate to the schools of Mohave County. Minnie Wilson first claimed the estate under two separate and different instruments claimed to be the last will and testament of George Miller, both of which were adjudged to be forgeries. (Continued on Last Page)

COMSTOCK CON. TAKEN OVER BY L. A. PROMOTERS

Plans are rapidly taking shape for the development of the property of the Comstock Consolidated Company at depth. The acreage adjoins the million dollar Gold Chain mine and the strike of the Gold Chain vein is directly through its center. Where opened in the Gold Chain workings at depth of 100 feet the vein is 46 feet wide and is said to average about \$16 gold a ton.

State Senator James Curtin returned to Kingman last Monday from Los Angeles, where he arranged for the financing of the property. He has been given assurances that the money necessary for the development of the property will be available by November 1st, and at that time he expects to inaugurate the campaign of development. The program as outlined by him includes the selection of a site for a working shaft and for the machinery necessary for sinking it to depth.

RIVER RANGE PROVEN GOLD BEARING AREA

Interest in Mohave county mining enterprises, first stimulated by the marked success which attended the re-opening and development of the old C. O. D. silver bonanza in the Cerbat Range, and which during the past few months has been increased by the discovery of large bodies of gold-bearing ore in the new Katherine district, is now expanding to the more remote mining sections of the county. This is particularly true of sections situated along the course of the River Range, in which the highly productive camp of Oatman is located. Fifteen miles to the north of Oatman gold-bearing ore of similar value and identical in appearance with the Tom Reed and United Eastern ores, is being mined in the Katherine and Gold Chain workings.

Forty-five miles northwest of Kingman in the River Range the interest in mining properties has been stimulated by the very satisfactory ore showing on the old Klondyke and Red Gap properties. These properties are located about fifteen miles north of the new Katherine district, and their ore bodies have a geological relation to those of the Katherine district. As at Katherine, the ores are free milling, and lend themselves to treatment by the simpler reduction processes. The veins crossing them are strong and well mineralized and can be traced by their outcrops for considerable distances. The section is easily accessible over a well graded county built highway.

The ore conditions on the Klondyke property, controlled by J. S. Withers of Kingman, demonstrate that with further development it will become a large producer of milling grade ore. Title to the property is vested in the Northern Consolidated Mines Company, with the stock held largely by Kingman and other Arizona people.

Former operators of the mine glory-holed the immense ledge from surface to a depth of about thirty feet and removed 4,500 tons of ore which plated \$12 gold a ton. This ore was treated at a ten-stamp mill on the Colorado river about six miles distant from the mine. The large chamber from which the tonnage was removed shows ore on all sides which could be mined and reduced at a very good profit by the use of modern processes. (Continued on Page 4)

SAY KATHERINE IS GETTING WELL KNOWN

Thad M. Boggs and John Sherman Bagg of the Arizona Record returned this morning from San Francisco, Mr. Boggs having gone to the Bay City a few weeks ago and Mr. Bagg having spent several months there, during which time he saw many of the big mining men of Nevada and California.

They returned in a very optimistic frame of mind. The Katherine section is getting to be very well known on the outside and attention of mining men is turning toward gold, which makes a very good combination. The solid people of the West are interested in the well defined gold veins of the Katherine section.

BUILDING ROAD

W. P. Carr and several other residents of the Cedar Valley country are rebuilding the old Cedar road to the Big Sandy, where connection will be made with the main highway to Kingman. A road from Cedar would be travelable all the year and the grades to the Sandy would not be excessive.