

# THE MINES OF ARIZONA

This department is under the direction of Mr. W. E. Defty, the well known mining engineer, who will carefully scrutinize all matters relating to mining in order that only reliable information regarding legitimate enterprises shall find a place here.

The Republican would be pleased to receive information from any part of the state regarding the development of the mining industry. All communications should be addressed: Mining Department, Arizona Republican.

## Mining Is Profitable as Shown By Dividends

That mining at present is in the most profitable stage of its existence is evidenced by the reports made to Mining and Engineering World by American mines and works and other companies which look to mining for their profits. These reports show that 107 of these companies have paid dividends so far this year totalling \$41,132,971. To date these companies have to their credit dividend payments aggregating \$996,522,188. When it is considered that this does not include dividends paid by companies operating coal and iron properties, nor of those companies producing other mineral substances, it is readily seen that mining is one of America's most profitable industries. There are other companies operating mines which do not give out reports, but which make regular distributions to stockholders. In addition there are a great many privately owned mines which yield substantial profits to their owners.

In classifying the various reports made to Mining and Engineering World it is found that of the 107 companies mentioned above, 24 operate copper properties. During the four months of 1914, these companies paid out dividends amounting to \$17,115,371. Since incorporation, dividends totalling \$499,866.80 have been paid on a combined issued capital of \$267,581,715.

Properties classed as gold-silver-lead-zinc producers, to the number of 72, paid dividends during the 4-month period totalling \$19,990,305. To the end of April these companies have disbursed \$267,588,829, or \$37,115,371.

## WEDDING INVITATIONS AND ANNOUNCEMENTS

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899,385 in excess of outstanding capital. Forty-eight of these properties are located in the United States and have to their credit so far this year \$1,186,457, and since incorporation \$192,490,517. Eighteen are Canadian properties and their disbursements for the four months total \$2,952,781, and since incorporation \$54,878,722. But six Mexican companies report dividend payments in 1914, these having disbursed \$703,941. To date these six companies have \$29,353,581 to their credit.

Seven metallurgical companies have made disbursements this year of \$4,915,222, with total payments of \$164,293,324.

Six security-holding corporations had a profitable 4-month period, having divided among shareholders \$8,162,073, with total disbursements of \$168,982,520.

**Inspiration**  
Advices from the Inspiration mine state that development of the main ore body above the 600 level was begun last week, 12 vertical raises being started. A total of 48 faces are being worked throughout the mine, all in ore.

The foundations for the power plant buildings at the smelter site are being completed as fast as possible so as to allow the erection of the steel. Most of the steel for the two buildings is already on the ground, and the erection force will soon have everything in readiness for starting work on a large scale.

**Arizona Mines Are Valuable**  
The tax commission has fixed the value of producing mines in Arizona at \$111,453,398.12, \$2,000,000 lower than last year, and \$18,000,000 higher than returns made by owners. Cobalt leads all counties, with \$5,321,213; Gila is next with \$15,246,425; Greenlee, \$11,855,716; Yavapai, \$14,723,992; Pinal, \$11,392,692; Santa Cruz, \$796,162; Mohave, \$5,932,214; Maricopa, \$5,228,649. The Copper Queen is rated the highest, with \$2,249,370.

**Superior—Secure Extension for Thorough Test**  
It is reported that the Calumet & Arizona company has secured an extension of two years on property now being worked by the corporation at Superior. While a number of rich ore bodies have been cut, it is understood that no really important lode has been found, although there is every evidence of richness at depth, except the ore itself.

**Another New Concentrator**  
It is reported that the R. R. R. mine near Patagonia will at an early date install a concentrator of 200 tons daily capacity for the purpose of treating the low grade ore material in the mine. At present about 50 tons of high grade copper ore is being shipped daily.

**Guards Keep Watch Over Rich High Grade**  
The tension over the Owens gold strike was relieved with the termination of the law suit in the superior court last week. The case was tried out to a finality, with Alexander and Baker, assisted by P. J. Conroy, for defendant Owens, and P. H. Hayes and H. G. Richardson for plaintiffs. A long array of witnesses were examined on each side, the case occupying four full days from Wednesday to Saturday, inclusive.

The jury rendered a verdict in favor of defendant Owens, and hostile guards were at once removed from their watch over the high-grade ore. But the ore is not left unguarded by any means. At the conclusion of the trial J. L. B. Alexander became a part owner in the property. George Truman and John Payne also hold some interest. Truman came over from Florence and saw that guards

kept watch to insure against high-graders. One chunk of ore was knocked off the ledge and carried away by Truman as a specimen. The piece of ore weighed about fifty pounds and carried between \$300 and \$400 in gold. This is the first piece of ore that has been broken from the ledge with the consent of the owners. Beneath where this piece was broken off, the ledge is still yellow with gold. The ledge is also being uncovered higher up in the mountain, as the ledge is exposed.

Just what plan of development will be adopted is not yet fully determined, but is being talked over by the owners. It will not be idle long, however, and guards will keep watch over the exposed high grade night and day.

**First Electric Light at Silver King**  
The first electric light in Arizona was erected at the Silver King mine in this county. When Major M. J. Doran and Major O. E. Kennedy were driving out to the Silver King in 1878, and night overtook them before they reached their destination. When near the old town of Pinal, five miles away, they saw a light at the mine, and concluding the galleys frame and buildings were on fire, used the whip on their horses, to find what they took to be flames was an electric light on a high pole.

**Tom Reed**  
Charles Grimes of Pasadena was again elected president of this company at the last general meeting, along with the old board of directors. S. S. Jones remains as superintendent and Bert Linceford as his assistant. Nearly \$700,000 was paid in dividends during the year on a few shares over 900,000. At the commencement of development on this property a great deal of this stock was acquired at 15 cents per share. Greater ore reserves have been blocked out in the mine, which enhances the value of the shares very substantially. The property is excellently managed in every respect and stands today as the banner gold mine of Arizona.

**Humboldt Smelter**  
This smelter has again been blown in and is mainly operating on the copper ores from the Blue Bell mine. It is hoped now the plant will continue in operation and will be able to reduce all the ores offered it, for it should be of great assistance to that district, especially to the small properties, where it affords a handy market for their output.

**Ajo**  
Development work continues steadily on this property and at present about 75 men are employed. There are many improvements being installed, among these being a 250-ton mill for the purpose of practically testing the reduction and extraction on the ground. A part of this mill is already at the mine and a part at Gila Bend ready to be hauled. Wire is already at Gila Bend for the construction of a telephone line from this point to the mine. The company is also sinking a series of wells, within a radius of seven miles of the mine. Some of these are down 600 feet and others to twice that depth. There is an immense area of copper stained rock on the surface of this property, and if a successful reduction process is evolved for the extraction of the copper contents, and no doubt there will be, it ought to make one of the

**The Cauliflower Mining Company**  
The property of this company has again been sold for \$6,000,000. As this is the third time it has been sold for this amount, the total will aggregate about \$18,000,000, more or less. One of the directors stated that the shares were worth \$13 per share, but as some one reminded him that many people were superstitious regarding this number, the figures were immediately reversed to \$31, and of course, these figures make a big additional value of the stock, and look bigger in every way, and especially as a general total. Probably the mine will be sold for an increased figure next time. Its very little use, daily-daily around a measly \$6,000,000 all the time, but the brains of the directorate of this company are wonderfully made and capable of wrangling with any figures, irrespective of the largeness of them. I have not yet received direct word from the mines as to the additional revenue to be derived from blocked out of an atmospheric, ethereal or sulphide nature. However, it can be taken for granted that the additional tonnage will be very large and of a value and kind to meet any demand or emergency. The Cauliflower is a great property, sure.

**Bisbee Resources—Many Years' Work**  
A local mining engineer has figured out that south of the main business section of Bisbee ore bodies have been developed on no less than 11,000 feet of mining claims, and it is estimated that not less than fifty years of active work is assured underground. Further, there is not the slightest doubt that the ore bodies continue southward, and some persons believe that the deposits at Cananea, fifty miles away, are on the same ore strikes as that of Bisbee.

While ore of value has been discovered to the northward, the real mineralized zone of the district starts on the hillside above the city, where silver-carbonate ores even now are being extracted after more than seven years of exploration. Below these are the original open workings of the Copper Queen, and then at the depth of only a few hundred feet, in the old Car shaft, start the sulphides that have given the district such wonderful riches. These sulphides go deeper, step by step, in masses, rather than in veins, until they are being worked at more than 1600 feet of depth down in the Warren section.

It is not improbable that mining operations in Bisbee before many years will reach even the depths

**HE GAVE HIS LIFE FOR NATION'S HONOR**

**C. & A. Shaft**  
The Calumet & Arizona Mining company of Bisbee has just completed replacing the timbers of its junction shaft with concrete. The new shaft, 27 feet 3 inches long by 6 feet wide, has been concreted to the surface from a point 1535 feet below. This was accomplished in 8 months and 21 days. The junction shaft is located in the heart of the Bisbee or Warren district, and being the deepest, is used as a central pumping shaft for all the mines. A fire in this shaft, necessitating stopping the pumps, would flood the lower levels of the deeper mines in a short time. The primary object in concreted was to eliminate this risk and incidentally provide a thoroughly up-to-date hoisting shaft. Concreting was started 25 feet below the 1510 level and was carried up in 5-foot sections. Except at the stations standard sets of forms, which could easily be set up and taken apart, were used. The materials used for the concrete were stored in overhead bins, from which they could easily be fed to the concrete mixer. After mixture in the proportion of one part cement, three parts sand and five parts rock, the concrete was dropped through an iron pipe to that part of the shaft where it was to be placed. Steel reinforcement of 3-inch rods, with a tensile strength of 20,000 pounds per square inch, was used in the curtain walls which separated the shaft compartments, in the columns required at stations, and in the shaft walls, where back filling was required.—Robert H. Dickson, Engineering and Mining Journal.

**New Concentrator**  
The Hermitage Mining and Milling company of Cochise county has completed a 2-1/2 concentrator of 30 tons daily capacity. The cost of the plant was \$11,000.

**Radium Curative Power**  
In speaking of radium as a cure for cancer, it is somewhat overrated, and in some cases is very dangerous, because another remedy is needed to neutralize its effect on the blood, or the patient will die of blood poisoning. This is true in cases of cancer that are not treated in the early stage. Its chief use is the cure of kidney and liver trouble, the benefit being derived entirely from the gamma ray. No special benefit as yet has been derived from either the alpha or beta rays, both seem to be detrimental rather than beneficial.

**Theory of the Sun's Heat**  
The discovery of the supplies of energy which radium possesses and can give out, suggest a possible explanation of the origin of the sun's heat, which has been regarded as very mysterious. If the sun contained 2 1/2 parts of radium in a million, the present output of solar energy would be accounted for, and this is possible, as the sun would only have to be a little richer than the best pitchblende found. Another fact which strengthens this theory is that the sun's energy consists of helium, a product made by the alteration of radium. Against this theory we find that an electroscopie will hold its charge just as long in a deep mine as it will where the sun's rays act directly on it. No trace of radio-activity has yet been traced to the sun or its rays.—James E. McArthur, chief chemist, Colorado-American Radium company.

**Earth's Heat is Enormous**  
Expressing the opinion that the inner part of the earth is very hot, Grove Karl Gilbert of the United States Geological Survey discusses some of the results incidental to the triangulation work done by the Coast and Geodetic Survey in a paper just published by the Geological Survey.

After stating the anomalies of gravity, which are also expressed graphically on the map of the United States accompanying the paper, Mr. Gilbert discusses the interpretation of these anomalies under the assumption of imperfect isostatic adjustment, vertical heterogeneity of the crust and variation of depth of compensation.

The geological relations suggested by the map showing the geographic distribution of the anomalies are next set forth.

The speculative value of this scientific contribution is well expressed by Mr. Gilbert in the few sentences that introduce the section discussion interpretation by nuclear heterogeneity:

"The inner earth is the indelible

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**Points of Interest Near Flagstaff**

Grand Canyon	.....65 miles
Extinct volcanoes	.....18 miles
Lava beds	.....16 miles
Ice caves	.....16 miles
Prehistoric cliff dwellings	.....10 miles
Cave dwellings	.....10 miles
Oak Creek trout stream	.....18 miles
Montezuma's well	.....50 miles
San Francisco peaks	.....12 miles
Elevation (13,900 feet)	
Altitude of Flagstaff	.....6907 feet
Prehistoric ruins	.....35 miles
Natural Bridge	.....75 miles

**Flagstaff, Ariz.**

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**Flawless Emeralds**  
A flawless emerald is said to be valued by jewelers at three or more times as much as a flawless diamond of like weight. The first emeralds were supposed to have come from India, but there is doubt as to their true identity, and some of them seem to have been the rare green variety

**MYSTERIES OF THE STONE QUARRIES**  
What is as yet to be the largest stone ever cut by human hands lies in an abandoned quarry in Syria, near the ruins of Baalbek. The stone is seventy-five feet long, eighteen feet high and fifteen feet wide. Its weight is estimated to be 1,300 tons, and is supposed to be how similar India, but there is doubt as to their true identity, and some of them seem to have been the rare green variety

**William H. Pulliam.**  
William H. Pulliam, of Pulaski, Va., son of a blacksmith, was shot at the taking of Vera Cruz. He died there on May 5. He was attached to the battleship Utah. The body is now on the way to Pulaski for interment.

Pulliam's father, George Pulliam, heard of his son's death he said: "He gave his life for his country; he was my boy."

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