

# THE MINES OF ARIZONA

This department is under the direction of Mr. W. E. Darty, 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.

In a personal letter received in Phoenix last week, the writer who is an eminent lawyer in New York stated that he had just had a conversation with the president of one of the important banks in that city and during the course of conversation the banker stated that he had come to the conclusion and believed that gold mining was the best manufacturing business in the United States today.

Such a statement can be readily and clearly understood, for the basis of all business and exchanges, personal and national, is built on gold. There is no fluctuation in its price like any other commodity—it stands alone undeterred. Furthermore, it is neither made nor rusted and the weasels and rats can't nibble it.

All the principal moneyed centers and corporations have been steadily making mining investments for the last few years and they are absolutely on the right side. Industrials have suffered terribly during this period, and railroad securities have fallen to the bottom notch, but during these recessions in values, gold mining has not fluctuated only to strengthen and become more solid. Of course this refers especially to gold mining but outside of copper all metals are bringing good prices today. A good mine under the right management is a safer investment than any other. The public generally are beginning to realize this and they will return to real mining in the near future, with the same avidity as they used to invest in wild oats and beautifully illuminated prospectuses.

**The Great Gold Strike at Cripple Creek**

The recent strike at the Cresson mine at Cripple Creek, is unquestionably very wonderful. It is already claimed that \$1,900,000 has already been extracted from the rich pocket, with no end in sight. The ground is

**Flagstaff, Ariz.**

Points of Interest Near Flagstaff

Grand Canyon	55 miles
Extinct volcanoes	13 miles
Lava beds	14 miles
Ice caves	15 miles
Prehistoric cliff dwellings	19 miles
Cave dwellings	10 miles
Oak Creek trout stream	13 miles
Montezuma's well	50 miles
San Francisco peaks	12 miles
Elevation	13,900 feet
Altitude of Flagstaff	6,907 feet
Prehistoric ruins	35 miles
Natural Bridge	75 miles

**WHEN IN FLAGSTAFF**  
Stop at the

**Commercial Hotel**

Chas. Prochnow, Mgr. Rates \$1 up

**Phoenix Engraving Company**

MAKE CUTS THAT PRINT

**S. HARRY ROBERTSON**  
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**Kirkman Nurseries**

RELIABLE TREES AND VINES

Our little nursery near Phoenix is doing nicely. We will be able to deliver from this plant a full assortment of grape vine, fig trees, and some shade trees, etc.

Our office and delivery yard in Phoenix will be open for business the first of the year and we will be able to supply all the commercial varieties of PEACH, APRICOT, PLUM, PEAR, OLIVE AND CITRUS trees direct to planters from our main nursery at Fresno, Cal.

Until our office is opened write for catalog, etc., to us at PHOENIX RURAL ROUTE 5, or Phone 1234. Our Mr. Myers will be glad to call on you upon request.

Remember we have been at it twenty-eight years, and that we grow annually more than a million first-class True to Name Trees of the varieties needed in the southwest.

THE BEST is what you must have to succeed in horticulture.

**KIRKMAN NURSERIES, PHOENIX, ARIZONA**

drops formed at the tips of the carbons.—Indianapolis News.

**Big Brick of Gold**

What is believed to be the largest brick of gold ever derived from placer operations in Summit county Colorado, was recently panned by the Tonopah Placer company. It weighed 160 lbs. and was recovered by dredge No. 2 in 15 days running. Three dredges are now in operation.

**Sentenced**

The notorious Dr. Richard C. Flower has at last earned his reward. He was sentenced last week by Justice Davis to the criminal lunatic of the New York supreme court for two years in the penitentiary. He was sentenced in one case only and where his swindling activities netted him half a million dollars. This undoubtedly is the final scene of this old and notorious swindler. He brought Arizona into disreputable limelight by his Spetzkauna flotation fraud, but the quick action of Governor Murphy quickly nipped his machinations in the bud. He evaded justice for a long time. But you know about the mills of the gods.

**Calumet & Arizona.**

Houghton.—A Christmas dividend for Calumet & Arizona shareholders is assured. Just what the amount will be is not known at this time. But the officials who left last week for Bisbee, where the directors will hold a meeting in a few days, let it be known that they contemplated a disbursement of some sort. This action was determined upon following a careful survey of the copper market situation. They are firm in the belief that the worst of the copper depression is behind. They have orders for Calumet & Arizona production for all of November and December and part of January. And they are optimistic as to the future. In fact they have on hand a bid for their whole January product at a figure slightly better than the present market price. And they will not accept it. They have practically determined upon a stock issue plan to finance the new Cornelia proposition, which is an enormous low-grade mine that will require a lot of money to put on its feet. Calumet & Arizona treasury has now no funds, being in debt practically three-quarters of a million, but the Superior & Pittsburg treasury has over two millions on hand and the Calumet & Arizona owns 94 per cent of the Superior & Pittsburg stock, so that the assets are, to all practical purposes, used commonly.

**Ferro-Manganese Sales**

Pittsburg.—Two carloads of ferro-manganese for shipment this year to consumers in the Pittsburg district have been sold at \$88, seaboard. Sales of small tonnages at that figure indicate that the market continues at the figure prevailing before an embargo was placed on this material by Great Britain.

While some dealers have been quoting this alloy at \$75 and \$85, seaboard, no sales at those figures have been made in this territory. It is probable cargoes of ferro-manganese from England will be received under certain conditions, one being that agents must guarantee that no material will be re-exported.

**Vulture**

The Vulture Mines Co. for the quarter ending September 30, 1914, shows that 9,252 tons of ore was milled, of an average value of \$16.88 per ton, which yielded \$15.62 per ton, or a total of \$140,658.

**Arizona Copper Co.**

This company in October produced 2,694,729 pounds of copper.

**Mascot Copper Co.**

This company at Dos Cabezas, Cochise county, in its report ending September 30, 1914, says that development in the mine totaled 4631 feet, also 682 feet of assessment work on unpatented claims. Diamond drilling amounted to 8019 feet at \$2.10 per foot. Twenty six holes were drilled, eleven of which cut the ore formation.

**Ray Consolidated**

The output of this company in October amounted to 3,278,348 pounds of copper.

**Southwestern Progress**

The smelter at Humboldt, Ariz., is running with a force of 145 men, and the Blue Bell has on the pay roll seventy-five miners, and it is announced that there will be no further curtailment of the operating forces in prospect. It is said both properties will continue to operate until copper gets below 8 cents per pound.

**Max Delta**

This property south of the river, after lying idle during the summer has again started up with all the crew that can be advantageously worked. It is the intention of the superintendent to push development with all possible energy. This area is receiving more attention than ever before.

**Tom Reed**

This company shipped from Kingman, bullion to the value of \$30,000. The month's clean up was around the figures of \$100,000.

**Wolverine and Arizona**

This property at Bisbee will pay its first dividend December 10. This com-

**Has Melted Carbon**

Prof. Otto Lummer of Breslau has melted carbon. He inclosed a large amount of light, formed of two carbon rods, in a heavy glass container and exhausted the air. "By using a powerful electric current he produced such a heat that

**Dr. T. Felix Gouraud's Oriental Cream**

OR MAGICAL BEAUTIFIER

Removes Tan, Pimples, Freckles, Moth Patches, Itch and Sun Blisters, and every blemish on the face, and restores the complexion to its natural beauty. It has stood the test of 66 years, and is so famous we state to be sure it is properly made. Accept no counterfeit of similar name. Dr. T. A. Sayre said to a lady of the hospital (a patient): "As your lady will use this, I recommend 'Gouraud's Cream'." At Druggists and Department stores.

Ferd. T. Hopkins & Son, Props., 37 Great Jones St., N. Y.

**BOOK ON Dog Diseases AND HOW TO FEED**

Mailed Free to any address by the author **H. CLAY GLOVER, V. S.**  
118 West 31st Street, New York

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Old Dominion Mining and Smelting Co. TRENTON, N. J.—The court of errors and appeals handed down a memorandum denying an application for a rehearing in the suit of Godfrey M. Hyams against the Old Dominion Mining and Smelting company.

Mr. Hyams sought to restrain the company from declaring a dividend of \$10 a share, and the rehearing was denied on the ground giving the opinion of the court of chancery.

"The question was whether the financial situation of the company justified a dividend. We agree with the vice-chancellor that it did," said the errors court.

The Old Dominion company made the following corrections in its dividend announcements. They should read as follows:

"The Old Dominion company has declared a quarterly dividend of 50 cents per share, payable December 30 to stockholders of record at the close of business December 16. The transfer books will be closed from December 17 to December 22, both days inclusive. This makes \$4 for the year.

"The United Globe Mines declares a quarterly dividend of \$7 per share on capital stock, payable December 29, to stockholders of record at close of business December 16. Transfer books closed from December 17 to December 22, both days inclusive."

**Mill Tailings for Road Metal**

In Missouri a considerable amount of road material is obtained from the tailings of the contracting mills at the zinc mines. This material, which is put on the market as "road metal," consists of small angular fragments of chert and limestone. The zinc companies are glad to get rid of this waste material, which is loaded on the cars by the railroads of the district at a cost of about 4 or 8 cents per ton. It makes more than ordinarily good roads and is widely distributed all through the middle west. It sells in most places at prices ranging from 50 cents to \$1 a ton, but in the neighborhood of the mines it can be had for about 15 cents a ton. It is used for railroad ballast as well as road making. The annual output, according to the United States Geological Survey, amounts to about 1,300,000 tons.

In Tennessee and Alabama a quantity of chert is used for road metal, and in many states crushed slag from blast furnaces also furnishes an aluable road material. In Alabama, one of the large iron-producing states, over 2,000,000 short tons of furnace slag, the average value of which was about 25 cents a ton, was crushed and put on the roads last year. Crushed slag is also used as railroad ballast and for concrete and roofing material.

**Uses of Tungsten**

Tungsten is used principally as an alloy of high-speed steel—that is, steel used in making tools used in metal-turning lathes running at high speed—to which it imparts the property of holding temper at higher temperature than carbon steels will, according to the United States Geological Survey. The now well-known ductile tungsten is used for incandescent lamps, which are fast displacing carbon lamps. Recently greatly improved lamps, in which the wire is wound in helices and in which the globes are filled with nitrogen, have produced a close approach to white light. These lamps are furnished in candlepower up to 2,000. Ductile tungsten is practically insoluble in all the common acids. Its melting point is higher than that of any other metal; its tensile strength exceeds that of iron and nickel; it is paramagnetic; it can be drawn to smaller sizes than any other metal (0.0002 inch in diameter), and its specific gravity is 67 per cent higher than that of lead.

**Tax Suit on World's Fair Mine**

Reache State Supreme Court

On appeal from the superior court of Santa Cruz county, Frank and Josephine Powers, owners of the World's Fair mine, against R. R. Earhart, treasurer of Santa Cruz county, has reached the state supreme court.

In 1913 the World's Fair mine was listed as a producing property and valued at \$150,000. Taxes to the amount of \$2,799 were collected after the powers had lost one suit in superior court before Judge Frank Duffy. Judge William E. Cooper of Pima county was the judge the next time the matter came up before the tribunal. Earhart was sued for \$2,799 and judgment was rendered in favor of the plaintiff.

The suit, now up on appeal, is based on several novel grounds. One is that there is no provision in the state constitution for the tax commission, which fixes the valuation of the World's Fair. Another is that the property is not a producer under the Arizona law, because it did not pay expenses during the previous year. Still another is that claims included in the group are unpatented and still the property of the United States, therefore not subject to taxation.

After repeated negotiations with various interests, Frank Powers and wife appear to have definitely disposed of the World's Fair mine in the Harshaw district, near Patagonia. The property now is under lease and bond to Smith & Swatling, who are working it vigorously. The price to be paid has not been made public, but is believed to be not far from \$1,000,000, the price the Phelps-Dodge company was to have paid.

The property has been worked since 1892 and has been developed by a 500-foot tunnel. Some of the ore broken down by Powers was so rich that carvans was spread to receive it as it fell. One vein of almost pure native silver was almost a foot in width and was taken out without the use of powder. Several lenses of marvellously rich ruby and silver sulphide were found by Powers, who was a practical miner of the keenest sort, though curious in habits and suspicious of all comers. He worked the property irregularly, sometimes for months, keeping the tunnel locked in behind a heavy bulkhead door.

**Assay Office of J. S. NEAL**

ASSAYER AND CHEMIST

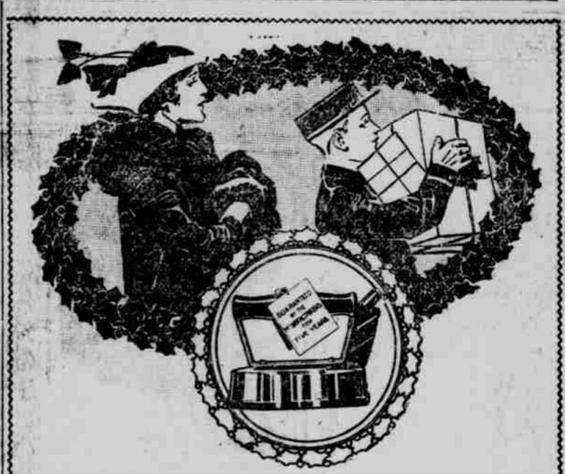
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Los Angeles, Cal.

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No longer is it desirable to give a pretty trifle, that will be cast aside the day after Christmas—the day of the useful gift is here. Nothing will give more pleasure to the housewife than the gift of an Electrical Flat Iron. It will iron better, in less time and with less labor than any other method.

### An Electrical Gift Will Please

A few suggestions for practical gifts are:

Flat Irons	Radiators
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Buy a Christmas Check, redeemable at any electric shop, and let her choose her own gift

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**SAVE MONEY on your BUILDING MATERIAL**

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**SPECIAL STEEL ENAMEL BATHTUB**

A wonderful bargain! Made of fine enameled 24-gauge steel. Outside finished with a rich, dark blue enamel. Inside finished with a rich, dark blue enamel. Price only \$8.00

**OTHER PLUMBING PRICES:**

Top dump enameled steel toilet commodes	\$12.50
Low dump enameled steel toilet commodes	\$16
High tank toilet commodes	\$10
LAVATORIES—First quality porcelain	\$12.75
Standard	\$10

**PAINTS**

Standard House Paint, 24 Cans, \$1.50

**ROOFING PAPER**

Plate or standard, 100 sq. ft. of 15 lb. only \$1.20. 2-ply only \$1.40 per roll. 25 lb. per M.—First quality waterproofing material. Send for free sample.

**WIRE FENCING AT HALF PRICE**

2,000 rods of 8-in. galvanized mesh extra heavy field wire fence. Perfect condition. 32 in. high, 20 rods to roll. Sold \$1.35 while it lasts at only \$1.00 per roll. This is just about half price. Don't pass up this opportunity. SEND FOR YOUR FREE SAMPERS BACK IF YOU ARE NOT SATISFIED.

**GALVANIZED BARR WIRE**

A large shipment of 2-ply galvanized mesh wire, slightly water stained. 30 rods to the roll. Light wire special, \$1.75 per roll. Special heavy galvanized "standard" mesh wire, 30 rods to roll, weighing 100 to 115 lbs., only \$2.75 per roll.

**CORRUGATED IRON**

Look at this! Corrugated galvanized iron, 24-inch corrugations, from 6 ft. to 8 ft. long. This is in perfect condition and won't last long at our special price of only \$3.50 per hundred square feet.

**WALL BOARD**

Three-ply moisture-proof fiber, laid in asphalt or cream white fiber Wall Board—your choice of either, at only \$10.00 per sq. ft. This is a genuine \$10.00 value for \$10.00. Wall Board also special, 1/2" thick, 48" x 96" size, 1/2" thick, 48" x 96" size, 1/2" thick, 48" x 96" size. Very economical. Used in any building. Send today for our Big Free Catalog of Bargains.

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1-ply per sq. ft.	10c
2-ply per sq. ft.	15c
2 1/2-ply per sq. ft.	\$12.00
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