

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.

COPPER PRODUCTION

Output for 1914 Estimated 10 per cent. Below 1913

WASHINGTON—Consulting Assistant Leslie E. Reed at London, forwards the following:

The total production of copper in 1914 was about 10 per cent less than that of 1913, according to statistics first compiled by H. R. Martin & Co., metal merchants of London.

countries, as follows: "The production in Cuba rose by about 50 per cent, and there was a larger output from Africa owing to the extension of mining in Katanga.

The United States Geological Survey places the American Smelter production of copper during 1914 at 1,159,147,182 lbs. and the refiner's output at 1,656,798,374 lbs.

COPPER

Leading Dealers Continue to Ask 19 Cents for the Metal—Production Between 80 and 85 per cent of Normal—Normal Output Will Not be Reached for at Least Three Months

NEW YORK—While business in copper metal is quiet, the leading dealers continue to ask 19 cents for the metal. In trade circles the belief prevails that buying will start soon.

It is estimated that the output of the copper mines at present is something between 80 and 85 per cent of normal and it will be some time before full operations have been established.

It must also be remembered that after the normal output had been reached it will take nearly three months more before the ore has gone through the refiners.

The Copper Queen metal output was \$6,966,143 lbs. copper, 8,889,175 lbs. lead, 1,036,672 oz. silver, and 15,789 oz. gold, from 732,829 tons of ore, precipitate and slag.

Copper Queen—The development of several million tons of concentrating ore in the Sacramento hill imposes on the company the necessity of erecting a concentrator. In order to solve subordinate problems a small test mill with a capacity of 90 tons per day, was constructed.

The best results were obtained by combined hydraulic and flotation methods, flotation increasing the mechanical recovery by about 12 per cent and raising the total saving to 87 per cent; in addition to this mill for determining exclusively the best methods for handling certain of the Copper Queen ore of special composition.

The quantity of copper made during the year 1914 by the company was 140,234,845 lbs. of which 990,000 lbs. was made from the Miami company's ore, and the resulting product in blister copper was delivered to them.

The smelter at Douglas treated 654,669 tons of Copper Queen ore and cent. copper, 9.02 oz. gold and 1.01 oz. silver, yielding 76,842,973 lbs. copper, 14,987 oz. gold, and 627,612 oz. silver.

The total material treated in the plant amounted to 1,012,177 tons, yielding 119,957,017 lbs. copper, 1,495,291 oz. silver, and 259 oz. gold. There were 948 men employed in the departments.

The Shattuck mine for the 26 days ending with April 30 was of very gratifying nature. Ore running 88 in gold and silver, and 4 percent lead, is being disclosed on crosscut 6 on the 200 level.

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veins. Development totaled 13,864 ft. A total of 155,205 tons of mined ore was extracted and shipped, averaging 2.57 per cent copper, of this 121,812 tons was concentrating ore. The yield in 1913 was 167,920 tons of mixed ore. The ore last year contained 11,986,674 lbs. copper, 91,582 oz. silver and 1,580 oz. gold.

The Old Dominion Copper company's report states that development totaled 17,782 feet. Some of this work was expensive and unprofitable. The flow of water varied between 2,350,000 and 5,625,000 gallons per 24 hours.

The west end ore bodies supplied most of the ore. High grade oxides ore was mined here and sent direct to the smelter. The center part of the mine produced most of the concentrating ore.

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Ray Consolidated Copper Co. The report of this company for the first quarter of this year shows a total production of 14,465,213 lbs. of copper.

Detroit Copper Mining Co. The yearly report states that developments amounted to 12,766 feet in the five principal mines, and 12,609 feet in outside properties a total of 25,375 feet.

Shattuck-Arizona. DELT—Mineral development in the Shattuck mine for the 26 days ending with April 30 was of very gratifying nature.

Automobile Tire Co. 8th & Olive Sts., Los Angeles, Cal. H. A. Demarest. F 3737. Bldg. 4049. 533 Van Ness Ave., San Francisco. 1758 Broadway, Oakland. 2nd & B Sts., San Diego. Hotel Fresno Bldg., Fresno, Cal. The Oldest Automobile Tire Jobbing Concern in the United States and the largest in the world.

Phelps Dodge Co. The annual report of this company contained the following notes on experimental work done to improve the recovery of metals:

Old Dominion Copper Mining and Smelting United Globe Mines and Old Dominion Co. The combined reports for 1914, covering these products has just been issued.

Ajo Railroad. Bids for the construction of the railroad is now called for and it is expected contracts will be closed early in June.

CALIFORNIA EXPOSITIONS. Invites you to see the. And enjoy the cool sea breezes. Round trip excursion tickets on sale daily. Limit Nov. 30th. Stop overs allowed. To SAN FRANCISCO \$47.00. To SAN DIEGO \$32.00. To LOS ANGELES \$27.75. To SANTA MONICA \$28.25. To LONG BEACH \$28.25. To OCEAN PARK \$28.25. To SANTA BARBARA \$32.75.

FAIRBANKS-MORSE Engines. Shieren Duxbak Belting Pulleys, Shafting, Pumps, Etc. ARIZONA HARDWARE SUPPLY CO. Phone 1231. Third Ave. and Jackson, Phoenix. "We have the stock."

Here Is Foot Comfort. The Scholl "Foot-Eazer" is a remedy. It is a scientific arch support or cushion that supports the muscles and tendons and gives them strength to carry the weight of the body at the foot arch.

Phoenix Engraving Company. MAKE CUTS THAT PRINT. S. HARRY ROBERTSON. 85 East Washington St. Phone 1709.

Clara Consolidated. About 50 men are now being employed at this property at Swansea and some good grades of ore have been extracted and shipped to the smelter at Humboldt.

Beats Mule Power. William Blount, who has a quartz claim near the Lynx creek crossing which yields a good grade of ore, is his own miner and mill man.

High Grade Ore Discovered. Word comes from Parker that a rich strike has been made 12 miles south of Vidal. Vidal is about 24

"--and now we are using" Our New Gas Range. It's easy to be a good cook with a range like ours—no more fallen cakes nor burnt bread; biscuits come out light and fluffy, with a golden brown color. You see, the heat is absolutely and instantly controllable. \$1.00 Reduction On All Gas Ranges and a Liberal Allowance. Pacific Gas & Electric Co.