

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.

The Silver Situation

An authority in silver, when asked yesterday to explain the present situation, said:

"Never in my experience have I seen such enormous buying of the white metal in this country as at present. Manufacturers are purchasing the metal in larger quantities than has been seen in years, and in addition the purchases by China direct and by the Cuban government have been substantial. Now the United States government has started buying, with the result, as I said before, that the demand is increasing. This, taken in connection with the fact that production has been curtailed in this country and the shutting down of silver mines in Mexico, naturally would make the casual observer look for higher prices. However, London makes the quotation for silver and all business placed on this side of the ocean is based on the level cubbed from the English center. England has been taking a comparatively small amount of silver from us during the last year or so, in normal times our shipments to London average about 1,500,000 ounces, but at present the outward movement is not more than 250,000 ounces weekly. This can be explained by the fact that India has been practically out of the English market, whereas heretofore that country took approximately four-fifths of the metal shipped to London. This again, exchange in the Far East, which is on a silver basis, has something to do with the situation. I remember at one time when silver accumulated in London up to 19,000,000 ounces, and despite this, the price advanced steadily, whereas now that the stocks of the metal in England are not large, the market has been declining periodically.

"I do not look for further cuts in the price and would not be surprised to see some stiffening up if the purchases by this government and by China direct for shipment to the French government. Cuba will be a good customer from time to time and the manufacturers in this country, if their present attitude is taken into consideration, are confident of the future."

and there is an accumulation of unshippable ore on the dumps. Everything in connection with this property certainly looks exceedingly favorable.

Old Planet Mine

This property on Billy Williams Fork is stated to have changed hands. The property is an old one and includes over 100 claims. During the early '60s and especially during the period of the civil war, quantities of high grade copper ore was mined down Billy Williams Fork to Aubrey Landing at the confluence of the Fork with the Colorado river, it was barged down to the Gulf of California and there transferred to ocean going steamers and shipped to Swansea, Wales, for treatment. Over twenty-five years ago I uncovered a small pile of this ore which was all grown over with grass and weeds, and collected ten sacks of it. The ore brought in silver and copper values over \$300 per ton.

The property has been worked intermittently for the last 50 years. We hope now, it has entered upon a new era of continued development.

Ajax Property

This property, about 20 miles from Florence and 8 miles from Superior and about 2 miles from the Reymart mine, has again been bonded to eastern parties. The property has produced some rich lead-silver ores on the surface, and has some zinc contents in association with the ores. Frank Reymart had the last option upon the property and to all accounts opened up some very good ground. But on account of an influx of water and an inadequate machinery to handle same, he abandoned the property. The property is apparently meritorious and ought to make good if developed in a practical and systematic manner.

Swansea

The lease of the Clara, Consolidated W. Thomas, passed away last week through heart failure. Mr. Thomas had been very successful with the property ever since he took hold of it under lease from the receiver and made continuous shipments to the Humboldt smelter. We reported only a couple of weeks ago that the mine was looking better than ever before. Whether the demise will make any alteration in property is not stated.

Calumet and Arizona

The output from this company's smelter at Douglas for June last was 7,250,000 lbs. of copper. This production establishes a new high record. There were in operation at the smelter to produce this, two blast furnaces, three reverberators and twelve roasters.

Inspiration

The mill at this property is now treating 2,500 tons of ore per day and by next month, anticipates trebling this capacity, or at least 7,000 tons per day. The saving of copper contents of the ore has reached a higher mark than anticipated, the savings being estimated at 25 lbs. of copper per ton, but there has been an improvement on this from 2 to 3 lbs.

Tom Reed Property

The reported strike in another portion of this property owned by the company and known as the Black Eagle group, appears to be confirmed by actual development. The ore was encountered on the 400 foot level, in a cross cut 40 feet from the main shaft, and the ore is said to average \$25 per ton.

Golconda

This property near Kingman and known as the largest tin producer in the southwest is now shipping one hundred tons per day of 40 per cent. to Bartlesville, Oklahoma. It is calculated the monthly ore sales aggregate about \$288,000. The mill produces concentrates at the mine in addition to direct shipping ore.

Great if True

Phoenix, Arizona.—There is a property in the western part of this country that is becoming a mine before its existence is generally known. It consists of a group of two claims about 15 miles northwest of Winters Wells. Returns have been received from a shipment of a carload of silver-lead ore, which netted \$408. The expense included a 27-mile wagon haul to the station to Hassayampa.

Shipment of Rich Gold Ore

A carload of rich gold ore has been shipped from the Jack White property, 15 miles north of Phoenix. The ore was shipped to Douglas for treatment. It is reported there is a very rich streak in the vein. The lower grade ores are being accumulated for mill use.

New Idria Quicksilver Company

Boston now has a war stock that bears all the earmarks of its notable contemporaries on the New York exchange. Like its contemporaries it has risen from a period of dormant inactivity to back in the eye of the speculator who eagerly awaits the introduction of a new possibility of reaping profits out of large earnings rumored or otherwise. New Idria Quicksilver has not been traded in on the Boston market for some time and has been resurrected amid circumstances that resemble those of Crucible Steel. In view of the fact that it is estimated that the company will earn approximately \$1,500 per share this year under present prices of quicksilver.

The company was incorporated in 1896 and has a long record of successful production. After 1910, however, production fell off, the sales in that year being around \$406,000, as compared with only \$23,400 in 1914. The prominence of the metal at present and the cause of the recent strong demand for it are due to the fact that mercury fulminate is a necessary in the manufacture of explosives. The Allies are dependent largely on the United States for their supplies, and the other important producers of the metal are at India, not far from the Italian border in territory enclosed by the Teutonic allies' lines.

I give the particulars concerning this company, simply to show the movement of quicksilver at this time. The metal is steady at \$95, for large shipments and up to \$105 per flask, for smaller quantities. The deposits with in seventy miles of Phoenix and show samples of specimens of quicksilver ore, that none of the properties in California contain comparable with the Oceanic mine in Arizona. It is now earning satisfactory dividends on 1/2 per cent ore.

BORAX PRODUCTION

California Sole Centre of Output in This Country for 1914 Was 7 1/2% Above 1913

The production of crude borax materials in the United States in 1914 was 62,400 short tons, valued at 1,464,400, as compared with 58,651 tons in 1913, valued at \$1,491,530. This is an increase in quantity of 7 1/2 per cent, according to Charles G. Yale and Hoyt S. Gale, of the United States Geological Survey.

All the crude borate material now used in this country is the mineral colemanite. The product during 1914 was obtained from three mines, all in Southern and Southwestern California, the larger part coming, as usual, from the Lila C. mine of the Pacific Coast Borax Co. in the mountains of the Death Valley region of Inyo county. During the year this company completed a calcining plant at Death Valley, Junction to roast the lower grade ores before shipping them to New Jersey to be refined. It also completed a narrow-gauge railroad from the Tonopah & Tidewater Railroad at Death Valley Junction to the Biddy McCarthy and Monte Flanico mines of the company in the Furnace Creek region, which have not yet been operated.

The Sterling Borax Co., near the border of Los Angeles county was second in production. Two grades of ore are mined and are roasted to remove impurities. On calcination the colemanite content of the ore is dehydrated and becomes a fine powder.

The Stauffer Chemical Co. of San Francisco, which was once interested in the borax mines at Lang, has obtained a controlling interest in the holdings of the Russell Borate Company in the Ventura district. This company hauls the ore 35 miles to rail and ships it to San Francisco for refining. The season is limited to about seven months in the year on account of heavy roads in winter. An 40 foot deposit of colemanite is reported to have been discovered at a depth of 370 feet by ranchmen drilling for water about four miles from Stauffer's mine in the Kramer district, San Bernardino county, California, and the United States lead the industry with approximately equal output of borates, or boric acid and borax, each producing in round numbers about 40,000 to 50,000 metric tons of crude ores, mainly calcium borates. Prices probably stand third in rank of production, with a reported average of 14,000 tons reported as boraxite, and Peru, Bolivia, Italy, Argentina and India are also producers.

The price of borax crystals is quoted as 3 1/2 to 4 c. lb., though it has advanced to 4 1/2 c. at the close of the year. The price of boric acid crystals, which is normally 7 to 7 1/2 c. a pound, advanced to 7 1/2 to 8 c. at the close of the year. The tying up of some foreign sources of supply as, for instance, the mines on the Sea of Marmora, and the interruption of foreign business created somewhat larger demand for the American products, and a slight rise in price may be expected.

AN ABUNDANCE OF ALUMINUM

Is Found in Practically the Common Rocks. But is Driven from Bauxite for Commercial Purposes

Aluminum is the most abundant of metals and ranks third among the elements which compose the crust of the earth, next to oxygen and silicon. It is an important constituent of all common rocks except certain sedimentary rocks, as sandstone and limestone. It is never found native, or in elementary form, but occurs as an oxide, hydrous oxide, fluoride, phosphate, sulphate, silicate, and borate. The only source of the metal so far commercially utilized is bauxite, an ore that contains 50 to 60 per cent. of alumina (the common oxide) this corresponds to a metallic content of 25.5 to 31.8 per cent. of aluminum.

The consumption of aluminum is constantly increasing and aside from its use in the manufacture of cooking utensils it is being employed in the construction of automobile castings and of welded tanks used by brewers, preserver manufacturers and fat renderers. Other uses which are important in the adaptability and efficiency but which absorb only a small portion of the domestic product are the manufacture of powdered metal used as a paint pigment and in making aluminum foil. Aluminum foil is gradually displacing tin foil, which heretofore has been used for wrapping confections, tobacco, tea and other products.

NOTICE TO CONTRACTORS

PROPOSALS FOR GRAMMAR SCHOOL BUILDING, HAYDEN, ARIZONA.

Sealed proposals are hereby solicited for the erection and completion of a Grammar School Building consisting of nine class rooms and several other smaller rooms, for school district No. 17, Gila county, Arizona.

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The Oldest Automobile Tire Jobbing Concern in the United States and the largest in the world.

Flagstaff, Ariz.

Points of Interest Near Flagstaff

Grand Canyon	45 miles
Extinct Volcanoes	18 miles
Lava Beds	15 miles
Ice Caves	15 miles
Prehistoric cliff dwellings	10 miles
Cave dwellings	10 miles
Oak Creek Trout Stream	18 miles
Montezuma wells	50 miles
San Francisco peaks	12 miles
(Elevation 13,900 feet)	
Altitude of Flagstaff	6,907 ft.
Prehistoric Ruins	35 miles
Natural Bridge	75 miles

WHEN IN FLAGSTAFF
Stop at the
Commercial Hotel
Chas. Prochnow, Mgr., Rates \$1 up

UNITED VERDE EXTENSION

Management Expects to Reach Ore Body in 1100-Foot Drift Within a Few Days

The management of the United Verde Extension expects to reach the ore body in the 1100-foot drift within a few days. About one third of the ore between the 1200 and 1100-foot levels has been stopped out. The ore body is believed to continue some distance above the 1100-foot level. Another 100 feet should bring the drift on the 1400-foot level to the ore body and the management believes there is no doubt but that the ore will be found there.

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She made up a mixture of Sage Tea and Sulphur to bring back color, gray, thickness

Common garden sage brewed into a heavy tea with sulphur and alcohol added, will turn gray, streaked and faded hair beautifully dark and luxuriant, remove every bit of dandruff, stop scalp itching and falling hair. Just a few applications will prove a revelation to your hair in fading, gray or dry, scraggly and thin. Mixing the Sage Tea and Sulphur recipe at home, though, is troublesome. An easier way is to get the ready-to-use tonic, costing about 50 cents a large bottle at drug stores, known as "Wyeth's Sage and Sulphur Compound" thus avoiding a lot of fuss.

REPAIR DIRECTORY

Cleaned or Rebuilt Like New The Cost Is So Little

This Repair Directory gives all the principal places where an article can be repaired and should be preserved in every home as a ready guide.

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