

MINING, BUSINESS AND STOCKS

MAMMOTH PLANT
IN CALIFORNIA

Something About Smelter Where
Centennial Eureka Ores
May Be Treated.

MINE BIG COPPER PRODUCER.

Mattie Utah Has Been Brought to
Utah Heretofore—Late
Improvements.

The mammoth smelter of the United States Smelting, Refining & Mining company in Shasta county, California, is the subject of an interesting article in the current number of the Mining and Scientific Press.

The development of this smelter, says the writer, is characteristic of the rapid growth of the copper mining industry in Shasta county. This enterprise was started about three years ago by the development of the mine, which is situated at a distance of 13-1500 feet from the smelter and at an elevation of 2,500 feet above it. The ore is carried over an aerial tramway, which discharges into bins from which the ore is loaded into the charge cars. Limestone is hauled to the smelter from the quarry, an electric road connecting this quarry with the smelter. Silicious ore and coke are brought from the outside, the railroad running over the top of the smelting bins and discharging into them. The profile between the mine and the smelter is difficult and the sticky character of the ore also renders the existing method of transport unreliable and insufficient to meet the demands of the enlarged smelting works now being constructed. In consequence, the aerial system will soon be abandoned and a gravity incline used in conjunction with electricity and steam railroads. The terminal machinery for the former will necessarily be massive, for the incline is 4,000 feet long, with a vertical drop of 1,700 feet. On this slope, which has a varying grade, two standard gauge cars of nearly 20 tons capacity will be operated, the brake energy being nearly absorbed by driving a compressor.

The Mammoth mine, which supplies the sulphide ores, is one of a series of masses irregularly distributed in a succession of dyke flows of pre-Devonian age along the west side of the Sacramento river. No proof is established that these ore bodies are confined to any distinct lava and the various flows have not been clearly defined. Ore deposition has occurred by the total replacement of blocks of rhyolite bounded by fissures and shear-zones. Within these blocks the ore bodies frequently show but little trace of the original rock, although in some cases the quartz phenocrysts can be distinguished.

At the Mammoth mine the ore is a massive pyrite containing from 3 to 12 per cent of copper and carrying a uniform quantity of precious metals to the value of \$1.50 to \$3 per ton, a factor which materially adds to the prosperity of the enterprise by driving the vagaries of the copper market.

Many of the ore bodies of Shasta county assume enormous proportions and are remarkable for their uniformity of character and comparatively shallow depth. The Mammoth ranks among the large copper mines that have been developed in the United States during the last decade, and the ore bodies of this district have added notably to the known copper resources of the world being surpassed only by the enormous low grade deposits of Bingham and Ely and, possibly, the rich lodes in course of development in the Katanga district of the Tanganyika Concessions in central Africa. The value of the ore blocked out at the Mammoth was recently reported to exceed \$15,000,000, but this must now be modified in view of the lower prices for the metal.

At the Mammoth smelter, from 300 to 350 tons of quartz is required per day; the company, finding the local supply of quartz insufficient to meet the demand, has recently built a narrow-gauge road to the Quartz Hill mine, which has been leased for a long period. This deposit consists of a series of low-grade lenses of quartz carrying from \$1 to \$6 in gold, and about 93 per cent silica, the latter being purer than the majority of local ores.

Hitherto a 20 to 30 per cent matte has been the product of the smelter at Kennett, this being shipped to Utah to supply the demand for the iron and steel industry. Of the silicious ores at present in service, one has a steel water-jacket top which is giving excellent results. So satisfactory has this improvement been, in preventing heavy incrustation and consequent freezing, that it will soon be adopted on all the furnaces. A light crust is constantly forming on the upper part of the furnace, and this soon falls off in scales; not only does it prevent the thick incrustation and subsequent freezing or low capacity that is usual with the brick tops, but this water-jacketed top also forms a scale of sufficient thickness to cause it to fall back into the furnace instead of being carried upward as fine-dust. This is an important development in blast-furnace construction.

The smelter plant is being much enlarged and it is expected that all the additions will be completed in January, 1908. Two blast-furnaces are being added; these are 50 by 150 inches, with water-jacketed tops and settlers of 16 feet diameter, and an incrustant pit. The brick tops of the old furnaces will also be replaced with steel water-jacketed tops.

ON MINING EXCHANGE.

Week Closed With Outlook Brighter—
Quotations and Sales.

The week closed with a brighter outlook for the mining stock market. Prices were considerably stronger than they were a week ago; the copper stocks, particularly, displaying an upward trend. Optimism prevails in the eastern market centers, and that has helped to cement confidence at home.

A feature of today's trading was the

This Morning's Metals.

SILVER, per ounce. 55 1/4
COPPER (casting) per lb. 13 1/4
COPPER (anodes) lb. 13 1/4
LEAD, per 100 lbs. \$3.58

NEW YORK QUOTATIONS.

LEAD, quiet. 3.65@3.70
COPPER, quiet. 13 1/4@13 1/2

activity displayed by Newhouse. This stock opened in fine form and recorded a sale at \$9. The assessment levied on the stock of the Black Jack Mining Co., yesterday, brought out quite a lot of that stock. Seven Troughs was active again, while Colorado did business at \$2.20.

The closing quotations and sales were:

UNLISTED STOCKS.

Stocks.	Bid.	Asked.
Newhouse.	8.87 1/2	9.00
Sil. King Coalition.	2.80	
Ohio Copper.	2.80	2.85
Standard Copper.	.18	.20
Con. Flagstaff.	.05	.05
Mason Valley.	.05	.09
Keystone.	.15	
Ely Witch.	.25	
Nevada Con.	9.37 1/2	

A. M. LISTED STOCKS.

Stocks.	Bid.	Asked.
Albion.	3.00	
Alex.	2.20	2.25
Bullion Beck.	1.00	
Carissa.	.22	
Creole.	.25	
Con. Merc.	2.70	2.75
Columbian Con.	1.87 1/2	2.00
Daly Judge.	8.25	8.45
Daly West.	7.50	8.50
Eagle's Nest.	.18	.21
Eagle & Blue Bell.	2.20	2.25
Grand Central.	2.70	2.75
Horn Silver.	2.00	
Indian Queen.	.10	1.00 1/4
Little Bell.	1.00	1.40
Lower Mammoth.	.43	.44
Lowell.	2.70	2.75
Mammoth.	1.60	1.75
May Day.	.27	.28
Nevada Hills.	2.50	2.65
Nevada Fairview.	.03 1/2	.10
North Central.	.02 1/2	.05 1/2
Utah Mine.	1.27 1/2	1.60
Uncle Sam Con.	.43	.43 1/2
Victoria.	1.00	
Butler Consolidated.	132.75	15.75
Butler Lib.	.03 1/2	.05
Beck Tunnel.	.52	.53
Black Jack.	.21	.21 1/2
Bullcock.	.02	.02
Colorado.	.05	.05
Crown Point.	.13 1/2	.14
Ingot.	.08	.08
Ibex.	.04	.15
Iron Blossom.	.22	.22
Joe Bowers.	.20	.20
Lead King.	.09	.10 1/2
Little Chief.	.03	.03
Mountain Lake.	.26	.27 1/2
Richmond.	.03 1/2	.05
Scottish Chief.	.03 1/2	.05
South Columbus.	.49	.52
Sioux Con.	.12	.13
Seven Troughs.	.34 1/2	.35
Victor Con.	.65 1/2	.65
Yankee Con.	.30 1/2	.35

REGULAR CALL SALES.

Ajax, 500 at 21.	
Indian Queen, 500 at 10.	
Lower Mammoth, 200 at 43 1/2.	
Uncle Sam, 100 at 43.	
Beck Tunnel, 200 at 52; 500 at 52, seller 20.	
Black Jack, 500 at 20; 1,000 at 21, seller 30; 500 at 21; 1,500 at 21 1/2, seller 60; 500 at 21 1/2, seller 30; 1,000 at 21 1/2, seller 60.	
Crown Point, 1,000 at 13 1/2.	
Iron Blossom, 2,000 at 22 1/2.	
Sioux Con., 200 at 12.	
Seven Troughs, 500 at 34, seller 30; 1,000 at 34 1/2, seller 30; 1,000 at 34 1/2, seller 30; 1,500 at 34 1/2, seller 60.	

OPEN BOARD SALES.

Beck Tunnel, 300 at 52.	
Colorado, 600 at 2.20; 200 at 2.20, buyer 60.	
Crown Point, 1,500 at 13 1/2.	
Iron Blossom, 500 at 22 1/2.	
Lower Mammoth, 1,300 at 44; 500 at 44 1/2, buyer 45.	
May Day, 500 at 27 1/2.	
Seven Troughs, 1,500 at 34 1/2, seller 60; 1,000 at 34 1/2.	
Sioux Con., 500 at 13 1/2, buyer 30; 500 at 13 1/2, buyer 30; 6,000 at 13; 700 at 13 1/2.	
Yankee Con., 100 at 30.	

RECAPITULATION.

Regular call.	Shares.	Value.
Open board.	15,300	\$4,452.50
Open board.	17,320	\$3,351.50
Forenoon totals.	32,620	\$10,734.00
Week's totals.	532,805	\$206,148.75

MONTANANS TO ORGANIZE.

Mining Congress Official Expects to
Attend Helena Meeting.

Helena, Mont., Jan. 11.—Word has been received from J. F. Calbreath, Jr., of Denver, secretary of the American Mining Congress, by the Mine Owners' association of central Montana, that he will endeavor to be in Helena to attend the mass meeting of mine owners on Jan. 17.

Secretary Calbreath is expected to be of much assistance in shaping the first plans of the new organization. It is proposed at this meeting to formulate a campaign for membership on a state-wide scale with a view to eventually absorbing the central Montana association by a state body, which, it is claimed, will number between 1,000 and 2,000 mine owners.

The new smelting rates of the East Helena smelter are said to be in excess of the old Salt Lake and Denver rates.

QUIT CLAIM DEED.

Special Correspondence.
Helena, Jan. 10.—For the sum of \$1 and other valuable consideration, quit claim deed from Peter C. Adamson and James H. Clark to J. F. Noyes, all of American Fork, one-eighth undivided, to the Scotchman group of mining claims, situated in American Fork canyon.

Jesse F. Cannon, Mining Broker, with Cannon & Cannon, 18 E. So. Temple.

Bird-Cowan Co.
Custom Assayers and Chemists, 160 South West Temple St.

F. R. Snow & Co., Stock Brokers,
22 Commercial Bldg. Both 'Phones 1973

A. S. CAMPBELL,
Stock Broker, 215 D. F. Walker Bldg.

GEO. C. CANNON ASSOCIATION,
BROKERS, 24 E. So. Temple. Both 'Phones 210.

E. M. West & Co., stock brokers,
D. F. Walker Bldg. Both 'phones of office and residence.

UTAH MINERS
AT GOLDFIELD

Men Who Shipped from Here Recently Are Quietly at
Work Now.

DEAF EAR TO UNION PICKETS

Went to Gold Camp to Work and Are
Doing It—Electrical Workers Not Out.

(Special to the "News.")

Goldfield, Nev., Jan. 11.—Salt Lake City is taking a conspicuous part in the solution of Goldfield's labor problem. A hundred and twenty miners from Utah camps mustered in Salt Lake City by the Goldfield Consolidated mines are quietly at work on the Mohawk and the Combination and are to be followed by numerous other recruits from Utah.

Union pickets have put forth their utmost efforts to dissuade the new arrivals, but have utterly failed. The story that these miners had decided upon arrival to refuse the work offered them and to join the local union is absolutely false and was started by the local union to intimidate other possible enlistments from outside states. The electricians of the camp objecting to the power company's determination upon an open shop policy, and for several days threatening mutiny, will not strike but will make every effort at a peaceful adjustment through arbitration.

Tomorrow, Sunday morning, there will leave Goldfield, bound for Carson City, a committee of 25 prominent business men named by the chamber of commerce to urge upon the extraordinary session of the legislature to convene Jan. 14 the necessity of protection for the camp.

The mines now working in this district are the Mohawk, Combination, Atlanta Combination, Fraction Daisy, Diamondfield Consolidated, Florence, Junco Extension, Red Top Extension, Red Hills, Yellow Tiger Sandstorm, Stiles Velvet, and several of the smaller diggings in the Diamondfield section. Nearly 300 men are employed. When working full force the camp employs normally 2,500.

ACCEPT NEVADA ORES.

American Smelting Company Raises

Embargo on Goldfield.

The American Smelting & Refining company is accepting Goldfield ores again, the embargo having been raised about two weeks ago. However, advice from the Nevada camp indicate that the smelter management has not been very successful in tying the mine owners up on long time contracts.

The American company has announced that it will receive gold ores from the district, paying cash for five ounces and \$100 per ton down and the balance in forty-five days on excess exceeding five ounces gold to the ton. It seems that the smelters will have to look elsewhere for any considerable tonnage of silicious ores, at least until the mines resume with a normal force.

NEW OGDEN COMPANY.

Formed to Operate Mining Property
in Nevada.

Ogden, July 11.—Articles of incorporation of the Columbia Gold Mining company have been filed with the county clerk. It is capitalized for \$125,000, divided into shares of the par value of 25 cents each, and the holders for the first year are: V. D. Spalding, president; John V. Smith, vice president; H. M. Chamberlain, secretary; R. S. Wimmer, treasurer. The company owns property in the Seven Troughs district, Humboldt county, Nevada.

SEVIER CONSOLIDATED.

Piute County Mine Now Being Subjected to Examination.

The property of the Sevier Consolidated Mining company, in Piute county, is now undergoing an examination by two mining engineers sent out from the east for that purpose. Some time ago shareholders in the company were called on for a voluntary assessment to defray the expenses of the examination. On their report will determine whether the property will be saved from being sold under the hammer. The Sevier company has an indebtedness of about \$225,000.

BOSTON CON. MILL.

Plant Being Started Up Under Person,
at Direction of Mr. Newhouse.

The mill of the Boston Consolidated company at Garfield is gradually being loosened up and by the end of next week the first section and possibly the second, will be in commission. Samuel Newhouse, president of the company, spent the day at the plant on an inspection trip.

TINTIC ORE SHIPMENTS.

The ore shipments from the Tintic district this week were confined to the following properties: Bullion Beck, 4; Carissa, 2; Centennial Eureka, 4; Eureka Hill, 2; Mammoth, 29; May Day, 3; Tintic Iron, 4; Yankee, 3; Colorado, 4. Total, 95.

BISCUIT TO RESUME.

Property at Cherry Creek, Nevada, on
Active List Again.

The management of the Biscuit Mining company has decided to resume development and production at its property near Cherry Creek, Nev.

The rains have been close down for some time, owing to the fact that a satisfactory arrangement could not be made with the smelters about receiving the ore. Previous to the shutdown the company was shipping regularly at the rate of two wagonloads of ore a day, a car being sent to the smelter when filled.

Satisfactory arrangement has again been made with the smelter, it is stated, and regular shipments will again be made. The property is said to be one of the best in the section in which it is located and some of the stock is held locally.

HONERINE ASSESSMENT.

At a meeting of the directors of the Honerine Mining company, it was decided to extend the time of payment of the 40-cent assessment on the stock of that corporation. The levy was made several months ago, but on account of the mine stringency, shareholders have not been pressed.

BADGER BROS
INDUSTRIAL DEPARTM'T.

WILL BUY

10 ROCKY MT. BELL @ 70
200 UNION CEMENT COM. @ 15
200 ENSIGN AMUSEMENT @ 85c
100 UTAH-IDAHO SUGAR @ 37
BIDS SUBJECT PRIOR PURCHASE.

COMMISSION CHARGE 1
PER CENT ON MONEY FOR
EXECUTION OF INDUSTRIAL
STOCK ORDERS.

Badger Bros, Brokers

160 SOUTH MAIN ST.

STOCKS, GRAIN, COTTON
ORDERS EXECUTED ON ALL
MARKETS.

PRIVATE WIRES.

BOSTON COPPER LETTER.

Pamcs A. Pollock & Co., bankers and brokers, 6 West Second South street, furnish the following, received over their private wire this afternoon:

Alhambra, 60@70; Cum. 2 1/2; 7 1/2@7 1/2; Dom. Cop. 1 1/2@1 1/2; Globe, 7 1/2@7 1/2; Helvetia, 2 1/2@2 1/2; Majestic, 13-16@14; Nipissing, 7@7 1/2; S. & P., 1 1/2@1 1/2; Apex, 2 1/2@2 1/2; Zinc, 30 1/2@31; Boston Copper, 30 1/2@31; U. S. S. com., 24@31 1/2; Do. pfd., 38 1/2@39; Arcadian, 4 1/2@5; Arnold, 4 1/2@5; Bingham, 37 1/2@40; C. & A., 1 06 1/2@1 07 1/2; Centennial, 26@27; Cop. Range, 59 1/2@60; Franklin, 8 1/2@9; Mass., 2 1/2@2 1/2; Mexico Con., 6 1/2@7; Mohawk, 32 bid; North Butte, 4 1/2@4 1/2; Quincy, 87@88; Santa Fe, 2 1/2@2 1/2; Tamarrack, 67@69 1/2; United Cop., 7 1/2@8 1/2; Victoria, 4 1/2@5; Wolverine, 1 22 1/2@23; U. S. S. com., 24@25; Davis Daly, 4 1/2@4 1/2; East Butte, 4 1/2@5; Hancock, 4 1/2@5; Kew, 4 1/2@4 1/2; Nev. Utah, 17-16@14; Raven, 80@80; Troy, 65 bid; Balaklava, 2 1/2@2 1/2; Royale, 20 1/2@20 1/2; Adventure, 2 1/2@2 1/2; Nevada, 30@31; Az. Com'l, 15 1/2@16; R. L., 37 1/2@38; Shann, 11@11 1/2; Trinity, 17 1/2@18; Utah Con., 33 1/2@34; Winona, 5 1/2@5 1/2; Wyandot, 55@57.

NEW YORK CURR.

James A. Pollock & Co., bankers and brokers, 6 West Second South street, furnish the following, received over their private wire this afternoon:

Newhouse, 8 1/2@9; Utah Con., 21 1/2@21 1/2; Nev. Cons., 9 1/2@9 1/2; Cum. Ely, 7 1/2@7 1/2; Bulk, 2 1/2@2 1/2; King Ewd., 2 1/2@2 1/2; Nevada, 30@31; Davis Daly, 4 1/2@4 1/2; Groux, 2 1/2@2 1/2; G. & S., 1 1/2@1 1/2; Nev. Smelting, 1 1/2@1 1/2; Mitchell, 1 1/2@1 1/2; Nev. Utah, 4 1/2@4 1/2; Silver Queen, 1 1/2@1 1/2; Ely Cons., 1 1/2@1 1/2; Do. pfd., 2 1/2@2 1/2; Tintic, 3 1/2@3 1/2; Monty, 3 1/2@3 1/2; Butte & L., 1 1/2@1 1/2; Tenn. Cop., 31 1/2@32.

CONCENTRATES.

Cashier John M. Hayes of the Utah Copper company spent the day in Bingham.

The ore and bullion settlements reported late yesterday by McCormick & Company were: Crude ore and concentrates, \$15,000; base bullion, \$60,000. Total, \$75,000.

Herbert J. Wiles, late of New York, made his appearance on the floor of the Salt Lake Stock & Mining exchange today, being the personal representative of Samuel Newhouse.

R. M. Lesher, president of Treasure Vault Mining & Mills company of Cripple Creek, is in the city for a few days. He goes to Nevada, where his company has some valuable property.

J. E. Hanway, manager of the Richmond Reaser, is in the city today on a business trip. He says conditions are prosperous in the southern country, and that he looks for quite a mining revival in the Gold Mountain district in the spring.

The Nevada Mines company filed articles of incorporation with the county clerk yesterday. The capital stock is \$1,000,000, with shares at \$1 each. The officers are: V. D. Spalding, president; John V. Smith, vice president; H. M. Chamberlain, secretary; R. S. Wimmer, treasurer. The company owns property in the Seven Troughs district, Humboldt county, Nevada.

Charles C. Gates has acquired for \$5,000 a group of valuable claims in the Lake district, situated a short distance from Ward, Nev., from Sam Crompton, according to a deed which was yesterday filed for recording in the county recorder's office. The claims are considered very valuable by local people knowing their worth.

The annual meeting of the Lower Mammoth Mining company is scheduled for next Monday.

SUGAR AND COFFEE.

New York, Jan. 11.—Sugar raw steady. Fair refining 5.40; centrifugal 36 test 5.30; molasses sugar 3.15.

Robbed sugar, 4.50; granulated 5.00; powdered 4.00; granulated 4.50.

Coffee—Quiet; No. 7 Rio 64c; No. 4 Santos 8c.

STOCK MARKET
IS ITSELF AGAIN

New York, Jan. 11.—Opening prices of stocks were higher as a rule than last night, but the gains were generally restricted to small fractions and there was a fair sprinkling of losses. The dealings were light. Baltimore & Ohio rose 1/4 and New York Central, Southern Railway and American Sugar large fractions.

Republic Steel preferred fell 1/4; Erie first pfd. 1 and Missouri Pacific and Pacific Main large fractions.

The southern Railway consolidated 5 per cent bonds rebounded 1/4 from yesterday's severe decline.

A revival of yesterday's active demand for St. Paul and demials by Southern Railway officials of the rumors current of financial embarrassment of that company have an upward impetus to prices.

Many of the principal stocks advanced materially. Profit-taking sales drove prices back in many cases to where they left off yesterday. The rise in St. Paul had reached 1 1/2, Southern Railway 3/4, the common 1 1/2, American Sugar 1 1/2 and Northern Pacific and Reading 1 1/2. Pacific coast B. & N. 1 1/2, heavy 4 1/2@4 1/2. This morning of New Jersey and American Agricultural Chemical preferred fell 2 and Utah Copper 1.

The market closed buoyant and animated. Prices rose again late in the day in anticipation of a strong bank statement for St. Paul and demials. New York Air-brake rose 1/4; Consolidated Gas 3/4; Union Pacific and American Sugar 1/4; Northern Pacific, Chicago Northern preferred, Canadian Pacific, U. S. Steel pfd., American Smelting and National Biscuit 1/4 to 1/2.

LIVESTOCK.

CHICAGO.

Chicago, Jan. 11.—Cattle—Receipts about 400. Market steady. Beeves 3.50@3.65; cows and heifers 3.00@3.50; Texans 3.00@3.50; calves 3.25@3.50; western 3.70@4.20; stockers and feeders 2.50@3.15.

Hogs—Receipts about 27,000. Market 5 cents lower. Lights 4.00@4.40; mixed 4.00@4.20; pigs 3.50@4.10; bulk of sales 4.00@4.15.

Sheep—Receipts about 2,000. Market steady. Natives 3.50@3.60; western 3.50@3.60; yearlings 4.00@4.50; lambs 5.00@7.00; western 6.50@7.50.

KANSAS CITY.

Kansas City, Jan. 11.—Cattle—Receipts 1,000. Market steady. Natives 4.00@4.50; mixed 4.00@4.20; stockers and feeders 3.25@3.40; bulls 2.75@3.00; calves 3.75; western steers 3.75@4.00;