DESERET EVENING NEWS: SATURRDAY, DECEMBER 19, 1903.



cle, both as regards analysis and strength necessary to carry furnace burden. This coal is about 225 miles

GREAT IRON MOUNTAIN.

Beneath the Soil of the Scraggy Cedars Shown in This Picture is Probably the Largest Iron Ore Body on Earth.

PROGRESS MADE IN THE PARK VALLEY MINING DISTRICT.

as the pure metallie fluid is caught in an Iron Rettle, and when no more continues to come, it is weighed up and the actual per cent of saving noted and compared with the assay. "This is probably the only reliable N THE extreme northwestern corner | ing its milling facilities in the near vay of ascertaining just what

PIONEER SAMPLER. 1

The Ridge Upon Which the Group of Prospectors Stand is Almost Solidly Met al.

IMMENSE IRON OUTCROP.

of Utah is situated the Park Valley and Ashbrook mining districts, which seem destined to become important producers of the more preci-

ous metals when further developed. In the former district the Century

in that regard.

the writer says:

is the most important mine. It is equipped with a 16-stamp mill and is making money. An evidence of this was seen during the year by the mine entering upon a dividend basis. The developments of the year show an improvement in physical conditions and making money. An evidence of this was seen during the year by the mine entering upon a dividend basis. The developments of the year show ar improvement in physical conditions and the management contemplates enlarg-

future. At the beginning of the pres-ent year the mine was in debt; but it now has a balance in its treasury. The ores of Park Valley are principally productive of gold. The Deer Trail is another promising property in Park Valley, the Elamigo is another, the Ione is still another, while the Great Buffalo and Planitary are propositions which give much enual saving is, as some might think, by testing the

are propositions which give much en-couragement to their owners.

OPERATION OF QUICKSILVER RETORTS AT THE SACRAMENTO.

HE Sacramento, of Mercur, which , into a furnace, similar to the assay furnace, so that the fire can play all around them. Each retort is connecthas introduced some new mining around them. Each retori is connect-ed on the top, at the back end, with a features in the way of extracting four-inch pipe running out over the furnace and down through a trough the values from its quicksilver ores has attracted not a little attention

of cold running water. "The ore is brought from the mine A description of this plant, which is and dumped on a board floor where it is thoroughly mixed, quartered down, not lacking in interest, was contained and samples taken for moistures and assay. It is then weighed and mixed in an article contributed to the current issue of the Mining Review, in which with lime, to take up the sulphur, and little fine coke or charcoal to carry off any free oxygen, as carbon oxide "While this plant is not as yet as exand thereby prevent oxides of mercury forming in the pipes and clogging them tensive as that at New Almaden, Cal., where 150 tons of ore is handled per day up. The ore is then put into the pans about two feet square. Four of (averaging one-half per cent mercury), these pans slide into each muffle, makyet it is giving very good account of itself and is proving quite a nice little ing twelve all told, and holding about

side issue in connection with the reg-100 pounds of ore every twenty-four ular mill run, averaging about a flask "After the paus are placed in the mufof quicksilver to a shift and running The the door is sealed up tightly and the furnaces gradually fixed up. Soon the moisture begins to pass off through the four-inch pipe when the mercury fumes, passing through the cold pipe, condense, and, running from the end with the regularity of a clock. "The retorts in use are three in number and are shaped like the muffle used in an assay furnace: they are cast iron, feet long, two feet wide, and one foot high, set side by side and built

re before and after treatment, since ie pans are taken from the muffle red , and should there be any mercury in them it would naturally most all pass off before they would cool The mercury is put into iron flasks, each holding seventy-six and a half pounds, net, of which there is now some 325 on hand ready for market.

as it cannot be found,

"The mine run, averaging about 7 per ent mercury, and 5 per cent moisture, with a conservative estimate, mough ore in sight to keep the gives plant "The general expense necessary for the running of the plant is compara-tively small, as it only requires one man to a shift of eight hours, besides

veighing, etc. Slack coal is used for foreman to oversee the sampling, iel, about 500 pounds to a shift. Cya ide solution is run out from the through the cooling trough and back into the supply tank, so that there is no loss of water. The plant is now ill under cover and in good shape for winter.

GIRLS WHO SHRIEK.

"If the rising generation of American girls is not taught to use the speaking voice properly we shall develop into a race of unconscious, unintentional shrews," says Miss Fay Templeton, a well known and popular prima donna. "If some rich woman wished to bring upon her head the blessings of posterity she should endow a chair of voice develop-ment which would not necessarily include singing lessons.

ment which would not necessarily include singing lessons. "Listen to the penetrating feminine voices all around us, shrilling, almost shricking, in head tones. And I am sure that not one of those women realizes that her remarks are being heard all over the room. If she did she would talk less of personal matters. Ride on the elevated trains or on open surface cars, and your head will ache more from the plercing voices of the woman around you than from the combined din of train and street. Have you ever had a telephone ring in



NEW HOIST AT COPPER MOUNTAIN MINE.

The Copper Mountain mine of Beaver county was equipped with a new gasoline holst during the present year. It has been inactive the most of the time, but a deal is now pending, which, if consummated, will mean its vigorous development upon an extensive scale.



PIONEER SAMPLING MILL, SANDY.

While the Ploneer sampling works at Sandy was familiar to mining men twenty-eight years ago, it is still a prominent institution. The plant was originally built by the late Richard Mackintosh. In the palmy days of Alta the immense tonnages which came from there were sampled at the Pioneer before passing on to the smelters for treatment. The same is true today, and judging from the way the camp is looking up business from this source will certainly increase very materially. For two years previous to last February, the Pioneer mill was under lease to the Taylor & Brunton company, and was closed during that period. But last spring the present Ploneer Sampling company was organized, and it acquired possession of the premises. Since that time the plant has been completely remodeled and made new by the installation of the latest improved automatic machinery and devices for the sampling of all kinds of ores. Unlike the old hand method of hand sampling, all ores brought in are crushed before being sent to the smelters for treatment. In this way the producer's interests, on certain classes of ores, are much better protected than they would be under the old way,

However, there are some producers who still prefer the hand sampling method; consequently this department has been retained; so that, the patrons of the mill can have their choice of either automatic or hand sampling.

The capacity of the Ploneer is 300 tons per ten-hour shift. The plant is under the management of J. B. Jenson, of Salt Lake City, and A. J. Cushing, who managed the mill, when, controlled by Richard Mackintosh for 28 years, is superintendent. Since resuming business a few months ago, the Pioneer has been growing in favor and it now enjoys a liberal patronage, not only from the camps of Utah, but from all the surrounding states.

The plant is located at a convenient point at Saudy, and is connected with the tracks of the three railways entering the valley, the Oregon Short Line, Denver & Rio Grande, and San Pedro Los Angeles & Salt Lake,

STOCK BROKERS

your ear because the woman at the other end of the wire was using head tones in talking? It is frightful. "The true root of the evil is that the American woman either cannot or will not use her speaking volce properly. Hun-dreds of dollars to cultivate a singing volce, but not one cent nor a jot of her time to improve her speaking volce! Mas-sage and lessons in physical culture to develop a plump throat, but not illy min-tures a day to enlarge her chest. And yet a gentle volce is woman's most effective weapon.-Washington Times. "I beg your pardon, gentlemen," said he, "Du tim, a psychologist in search of

OLD JOKE CAME TRUE.

"Many a true word is spoken in jest, one of the actors in a joke that has been told by the minstrel men for years." said wanted a dese of castor oil, but she want-de drug clerk. "A girl came in ani she wanted a dese of castor oil, but she want-fensive to the taste. "Have a glass of soda water on me while you're walting." said. I mixed a dose of oil with the syrup and she din't seem to know the difference, as she drank it without a i waited on them. Finally she became im-patient and asked for her oil. "Why, you've bad it." I said. You drank it in that glass of soda water." She turned sort i din't want it for myself. I wanted it for my little sister." Well, you could have knocked me down with a feather.

211-212 D. F. Walker Building.

CUMMINGS COMMISSION CO.



Among the newcomers in business circles in Salt Lake, the Cummings Commission Company is prominent. In the beginning of the month J. H. Bigger & Co. sold their entire business to the Cummings Commission Co. of which Mr. C. V. Cummings is the manager. Mr. Cummings is a brother of Mr. A. J. Cummings, who was for so long New York correspondent of J. H. Bigger & Co., and who conducts at St. Paul one of the largest commission houes in the Northwest.



Who has recently arrived in Salt Lake from St. Paul both from his many years' experience in the business as well as on account of his connections, is well fitted to carry it on successfully. Having bought up all the office fixtures and arrangements of Bigger & Co., we can give our clients the latest quotations from Chicago, New York, and all the principal trade and business centers of the union. We make a specialty of buying stocks for cash and investment purposes, and as we have special facilities for this, we think we are entitled to a share of the business of this city in that line. Having been connected with the stock markets for many years we are prepared to give our clients the benefit of our experience whenever they come to us for advice, and we can guarantee that all orders will receive our prompt and courteous attention.

> CUMMINGS COMMISSION CO., 211-212 D. F. WALKER BLDG.



Western States and Territories in their homes.