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THE MINING AND METALLURGICAL JOURNAL.
RECONSTRUCTION OF PARTIES.

Mutations in political parties have been frequent in this country, and it is in the nature of things that it should have been so. Conditions change sufficiently to necessitate changes in policies and measures. So far as the personnel is concerned, no party has existed unbroken for a period longer than the cause which brought it into being has existed. As a rule, parties have been formed to do a particular work, and when that has been accomplished to a greater or less extent they have fallen to pieces, or if not absolutely dissolved, they have drifted into different political channels through differences of opinion upon new questions. Upon questions not very essential men are not apt to leave their parties, but when the weight of importance and gravity arise, reconstruction is liable to take place on a large scale. The name alone, no matter how much it may be honored, will not hold men to a political organization despite their convictions.

The process of disintegration of parties has been going on for some time. New conditions have brought new issues to the front. Abuses so liable to be a part of any power in power have been discovered, and the perplexing situation of the country in regard to business affairs has led the people to inquire into the ethics and ethics of party membership. As soon as men cease to keep their judgments and consciences in the possession of party committees and conventions they cannot be relied on as unswerving party men. They take leave of their old associations and seek political companionship with those of the same or similar political convictions. Men from all the parties which have existed for some years past are gradually coming together. The populist party was organized on an extravagant basis, and comprehended men of extreme views upon a variety of questions. While a political party cannot altogether ignore any question upon which it must act as called to power, yet every party is held together by some leading issue, some predominant question. There can hardly be active warfare over the devaluation question: there are, as a rule, no serious differences of opinion.

Our history is divided into eras, or in other words, into periods. It is to time great questions over which parties have fought, and for periods of greater or less duration one side has become and continued dominant, until the issue has ceased to exist or has been subordinated to something new. For the last fifty years the tariff question has come to the front, and as there are a great variety of conflicting national interests, it is possible that it will not be put to sleep by common consent. No law that can be framed will ever be satisfactory to all interests. It is a prominent issue now before the country, but it is far less important than the money question, less than the question of that party disintegration is going on and reconstruction is taking place.

Goldism has its advocates in the Democratic and Republican parties. The divergent and irreconcilable character of this question is apparent and irreconcilable, and it seems impossible that any common ground can be found upon which the divergent elements in the two parties can be united. The divergent interests cannot come together unless one side or the other swallow convictions. The monetary question is the one upon which it seems possible that the Republican and the Democrat can be, and if men follow their expressed convictions it will be a party of not only formidable, but of triumphant proportion. The question is, how far will men be controlled by party and party prejudices?

Theories are radically different. On one side is presented subservience to the gold trust and to control of the volume of paper currency by the national banks. On the other is presented freedom of coinage to both gold and silver, and supply of paper money by the government redeemable in the coin of either metal at the option of the treasury. The first means a limited volume of money to promote the interests of the money changers and monopolists, and the latter means a general interest to be controlled by the people in their own interest. The one means a continuance of hard times, and the other a promise and certainty of easier conditions and prosperity. We shall watch with interest and anxiety the developments of the near future.

AMERICANISM.

There is a good deal of talk about Americanism these days, and we heartily sympathize with everything that is really on that line. We would have an American financial policy, one adapted to the conditions and industries of this country. That is a national policy. It is a foreignism, a British conception, and adapted to the promotion of British interests and to the injury of our own.

Let us adopt the double standard, the gold and silver measures alike, on the basis of coinage at the rate of 16 to 1. That would give us American money; it would be an Americanism which would benefit us materially. It would protect us against foreign monopoly and control in money matters.

The people of this country invented the best form of government the world ever saw, and we have the freest institutions that mankind ever lived under, and yet we have voluntarily placed our necks under a foreign financial yoke. Let us throw it off and make ourselves as free in our fiscal affairs as we are in our government and institutions.

At the greatest depth ever attained by miners in the history of the world the mines of the vertical Red Jacket shaft of the Calumet & Hecla copper mine have recently stopped sinking at a depth of 4,900 feet, as this is the maximum depth of mining in the company to reach the limit of its underground territory. Bored wells have been carried down to a greater depth, but the Red Jacket shaft is the largest and the best constructed sinking shaft in the world. Its inside dimensions are 14x22 feet, divided into six compartments and timbered throughout with pine. The shaft was started in the fall of 1886. The new rock shaft house, which will be built of iron and will be made fireproof throughout, is the only part of the work necessary to put this deep shaft in commission, as the hoisting machinery, which consists of three large expansion engines of 5,000 horse power per pair, and will hoist a load of ten tons 60 feet per second, was planned and put in place while the sinking of the shaft was going on.

The cost of constructing five of the great tunnels of the world was as follows: The Colorado tunnel foot, $739,000; Mont Cenis $235; St. Gothard $220; Albercy $574. The Northern Pacific tunnel through the Cascades was $115 per foot. Three of the tunnels are in Europe, and when the United States' engineering cost shows the progress made in blasting and excavating machinery.
EDITORIAL CORRESPONDENCE.

A Trip Through the Desert.

To those who have never been on the desert there is always a certain mystery connected with the point where the world stops and the desert begins. The scenes through which we passed were well supplied for the journey all the terrible ideas of the deadly rattlesnake and the gaudy wolf who is supposed to be eating the bones of immigrants when the sun has gone down and before it reappears, and it is seen that life on the deserts (at least the California deserts) is not only bearable, but quite enjoyable.

We started from San Bernardino with one of Cripple's best desert teams, and after a pleasant day's drive arrived in Banning, where there is a good hotel, The Banning. The distance from San Bernardino is about thirty miles. Leaving Banning early in the morning brought us by noon to Whitewater, which is really the edge of the desert. Just after leaving Whitewater we pass a mountain stream, and in the spring there is a very plentiful amount of power, but at present all the water is running to waste. An easy afternoon drive takes us to Chuck Warren's ranch, where a good meal and a hearty welcome are always in store.

After leaving Warren's ranch the road is quite an up grade to the top of the divide (seven miles) and from there to Warren's well (five miles); it is down hill. Six miles from the well the roads fork, one going to 29 Palms and the other to the Desert Queen mine and mill. We arrived at the mill the evening of the third day out, Mr. H. C. Steele, foreman of the Persic, Cal., mine, in charge. The five stamps are kept steadily running on ore from the Desert Queen mine, and results seem to be favorable. We found Mr. C. A. Farnsworth at the mill in the capacity of amalgamator. Leaving the mill the next morning, we arrived at the famous Desert Queen mine, better known as the McHaney mine. The mine is under the charge of Mr. O. T. McMillan, a thoroughly posted man. The vein on the mine is being worked by two incline shafts, which might be called tunnels, as the vein is very flat. A tunnel is being run from the side of the hill, which will be 55 ft. under the apex when finished. The idea is to prospect for the vein beyond any of the present workings on top of the mountain. A great deal of ore that was thrown aside when the prospecting was done is now being worked at the mill. Two six-horse teams keep the mill in ore for steady running. Messrs. Hodston & Fannery own the southern extension of the Queen. They have three stamps, and on the one next to the Queen they have a tunnel seventy feet long, and if the vein runs through these gentlemen have a piece of property that will be very worth while. At the time the McHaney mine was found every prospector had an extension, but we failed to see any other true extension except that held by Messrs. Hodston & Fannery.

About one mile west of Persic, Cal., on the Queen. McMillan, Forrest & Keeler have located a lode called the Eagle Cliff. They have run three incline shafts which all show the vein very well, and have driven a drift 300 ft. on top of the hill. Four miles from the mill, and the samples taken have shown so well that they calculate within a short time to tram the ore down to the road near the mill. The mines of Messrs. Tingman & Holland are located eight miles south-east of the Lost Horse mill. They have a good well of water and a two-stamp mill, at which all the ore from the country around was formerly milled. The Pinon group of mines belonging to these gentlemen is one-and-a-half miles up the canon from the mill. The main mines in the group are the Nos. 1, 2, 3, 4, and the Alpha, Beta, Gamma, Delta, Epsilon, Zeta, Eta, Theta, Iota.

The group has been developed by a series of shafts, drifts and tunnels, and it is proposed, when ready, to build a mill. A man has been engaged to run a long tunnel under the hill which will cut a number of veins, and deliver the ore where it can be easily handled.

We have a picture of the mine located the famous Hexahedron mine, belonging to Messrs. Tingman & Holland. This deposit of ore has been pronounced by all who have seen it to be of the very best quality. The development is very strange, and to a casual observer, the ore looks valueless. The vein is flat at one place we measured sixty feet all vein. A tunnel has been run in one hundred and fifty feet. The vein has been cross cut, and shows stronger than on the surface. An average return from the whole vein is said to have assayed $72.50 in gold. The occurrence of gold in this formation is especially strange in the district where all the other veins are known to occur in quartz.

Mr. Ed. Holland lives in the section where the mill is located, and is well known and highly respected in all the district, of which he is record keeper. The mine of Tingman & Holland's camp in the Hexahedron mountain, Mr. D. M. Francis is working a group of mines, known as the Foot Hill, Queen, 49, and Hillside. He has some country caved and some lodes, and is steadily developing his claims.

Between the Desert Queen mine and the Lost Horse mill, Mr. Rooney is working on a property, and now has ore at the Tingman & Holland mill to be worked.

Leaving the Tingman & Holland mill, and traveling north-east, John Lang's camp is next reached. He is on the edge of the desert, and is developing a quartz mine, owned by Mr. Lang, who has two properties. He is working on, one, the Thomas Gillhowly, and the other, the John Lang. Mr. Lang showed me ore he has seen on the desert. He has a shaft down about eighty feet, and is taking out very rich ore.

Leaving Lang's camp, and traveling towards 29 Palms, the road is very heavy sand for about seven miles, and then the road is made. We arrived in 29 Palms about 1 P. M., and found the camp full of travelers en route for Virginia Dale and other points. The water is about two miles from the mountains, and right in the desert, an abundant supply of water can be obtained here by digging a few feet.

In and around 29 Palms, many locations have been made, and the point is a good one to prospect as very low grade ore can be worked with an abundance of water and mesquite wood within three miles.

The Golden Chariot, five and one-half miles south-west of 29 Palms, has a 50-foot shaft and other development. This property belongs to Mr. J. W. Park, who has lived for some years around 29 Palms. The Northern Star, located in the small hills, seven miles to the north of 29 Palms, have both been opened up. The Hamshire has two shafts, one fifty feet and the other 15, with some drifts. The North Star has a 40-foot shaft, with a tunnel the same length.

The Big Luck, in the same range of mountains, belongs to Mr. J. W. Wilson, the pioneer miner of the Palm's district. Mr. Wilson has worked some of this ore in his ararastra, at 29 Palms, and it paid well.

Messrs. Kinney & Snyder have some locations the Black Hills, to the north of 29 Palms.

In Gold Park, 5 miles south-east of 29 Palms, a great deal of work has been done in the last five years on the Santa Domingo, the perfect Diamond, and several other mines. A shaft has been sunk 126 feet deep. The Alta California, in Gold Park, also belongs to Judges Morrison and associates. The North Star, in 29 Palms district, has been taken over about 300 feet long. Five miles south of 29 Palms is located the Summit Queen. On this mine there are two shafts, one 68 feet deep and one 40. Mr. J. W. Park, who is working the Queen, has invested over $3000 from this property in his ararastra at 29 Palms.

The Rosa, belonging to Messrs. Bixler, Park & Thomas, is located 4½ miles south-
west of 29 Palms on Palm Mountain; it has some development.

On the road from 29 Palms to Bagdad, and about 16 miles from the Palms, Messrs. Baldridge, Greenleaf, and others, worked the Gold Core, on which they have done a great deal of work.

Three miles south-west of 29 Palms, Mr. J. M. Thurston has a property, which has very favorable indications on top. Mr. Thurston has had the vein stripped in various places, and the crops are very strong on the property. He has discovered a large body of ore. There are several other properties around 29 Palms, but as we could not find the owners nor obtain any information regarding them, we were obliged to pass on them. 29 Palms certainly has many advantages on account of the large supply of water so near.

On leaving 29 Palms to go to Virginia Dale, which is only twenty miles, it is a good idea to take plenty of water for the horses, as the road is sandy all the way, and they need it badly before getting to Lyons' well.

At Lyons' well there is a one-stamp mill. The well is said to afford plenty of water. The first property we visited in the Virginia Dale District was the Hoosier Boy, about one-fourth mile southwest of the Virginia Dale mine. Messrs. Ashbraner & Plant, the owners, were working on the mine when we arrived. They have a shaft 35 feet deep, and have taken out some rich ore. The Dead Horse mine runs parallel to the Hoosier Boy, and 900 feet west. It has one shaft thirty feet deep.

The Bonanza, one-half mile north of the Hoosier Boy, has a shaft about twenty feet deep. There have been a number of miners, from which the district takes its name, is owned by Messrs. Judson, Warner & Phelps. The main working shaft is 120 feet deep, with forty-foot drifts at forty-foot level, twenty-foot drifts at sixty-foot level, and other drifts at the forty-foot level. The ore has been stope out to the surface from the forty-foot level. There is one shaft forty feet north of the main shaft, and another one at the property. The company also have five stamp mills about three miles from the mine. The Virginia Dale mine is said by all who have examined it to be a property that with proper management would develop. The owners were on the road at the time we visited the mine, and intended to start working on the mill.

The Rattler, a north extension of the Virginia Dale, has two short tunnels, one under the other; one shaft fifty feet deep with two drifts, one twenty-five feet and one thirty feet at the bottom of the mine; and another tunnel about thirty feet long.

The M. T. Lang, an extension of the Rattler on the north, has one shaft which at present is caved in.

The south extension of the Virginia Dale, the Good Hope, has three openings to show a good looking body of ore. The Virginia Dale and Hoosier Boy mines, is owned by Messrs. Lyons, Ingersoll and Esley. They have an open cut and a shaft forty feet deep. The owners at Lyons' well belongs to these gentlemen.

The Ram's Horn, a north extension of the S. S., has three shafts. The owners are Messrs. Earle, Stewart and Greenleaf.

The Brooklyn, half a mile west of the Virginia Dale, has one shaft, and has turned out some very rich ore, some running as high as one dollar per pound.

The Little Buxie, a parallel lode to the Brooklyn, and six hundred feet above, east, has some development.

East of the Little Buxie, seven hundred feet, is located the Gold Block, which is opened up in several places. We moved our camp after the first day from the Virginia Dale mine to Burt's Well, in order to be more convenient to the properties located to the north of the Virginia Dale. We were not able to meet Mr. Burt, who is one of the pioneers of the Virginia Dale district. He is one of the old school of miners who will go ten miles without a team of horses, cut a shaft, and still cut his last piece of bread with you. Under the guidance of Mr. Burt, we finished our tour of inspection. The first property visited after our arrival at the well was that known as the Elmerman. This group of mines is located near the top of the mountains and about two miles from the well, part of the way by wagon road, and about one mile by a good road. We calculated that the price of one which is on the dump, and which was taken from this shaft, contained over one hundred tons.

The White Star, a south extension to the Standard, has a shaft one hundred feet deep, and a forty-five foot drift in bottom of shaft. The vein appears of an average of about two and one half feet, and this shaft, which was also erected, was sixty footed up a little over two hundred and fifty feet.

The Ivanhoe, the second shaft to the White Star, has a sixty-five foot shaft and a vein about three feet thick. This pay streak, we were informed, assayed $50. The Standard, White Star and Ivanhoe belong to Messrs. Ferguson, St. Germain, Gauthier and Ellerman, who are all workers, and have proved by what they have done that they thoroughly understand their business, and if they do not make a success it will not be on account of not being industrious and intelligent.

The last property visited on the Ellerman lode was the Tip Top, which belongs to Burt, Botsford and Burt. This is the same property that Mr. Burt, between the Virginia Dale, has a shaft thirty-five feet deep, and the one looks fully as good as any we saw in the camp.

The Halesworth property, which is about one mile south from the Ellerman, mine, was one of the surprises. The Carlyle mine is the main one of the group. The 750 foot tunnel starts on the Comet mine, which is the north extension of the Carlyle. The tunnel was started with the idea of going on the vein, but it was found that the vein was to one side, but it was reached, and the work was suspended. The hanging wall of the vein instead of on the vein, is much harder. Mr. Cooper, the foreman of the mine gave us some figures as to cost of tunneling that were remarkable. The hanging wall is small and good bedded. The tunnel is connected with a shaft 155 feet deep, which gives perfect ventilation. In one place, near the end of the tunnel, the vein is 250 feet away from the shaft. The tunnel is over fifteen feet of quartz. It was the largest vein we have seen in Southern California. A winze is being sunk in the tunnel, which is now over 75 feet deep. Five hundred feet south of the 155 foot shaft which connects with the tunnel is another shaft 92 feet deep. The Ruby is a south extension of the Carlyle, also the Belle, John A. Logan and Keystone. We found at the Halesworth group Mr. T. J. Webster, who is our correspondent in the Virginia Dale district.

Mr. Cooper has charge of the work in the mines that he operates. He has been in Mexico and the south-west, we do not hesitate to say that if the Halesworth group does not prove a paying property, we have never seen one of more promise. The Botsford lode is about 500 feet north of the mouth of the long tunnel. The first location on the north end of the Botsford lode is the Botsford. It has an open cut that exposes the vein and a tunnel 25 feet long.

The Big Prize next to the Botsford south, has a fifty foot shaft and a ten-foot drift in bottom of shaft that shows a vein of solid quartz, four feet wide, every piece of which will show gold in the box. The St. Paul, next to the Big Prize on the south, has a 40 foot shaft. The Mid Winter, next to the St. Paul, has several shafts, and shows a solid well defined vein. Concerning the Butte, we could not but think, while going down the trail and almost walking the whole way on the cropings to the point where the Carlyle lode makes a dip, that it seems to me it is or was a buying land in Creek Creek (some of which is a mile from anything resembling a mineral lode) would go to Virginia Dale, and run a ten foot drift in bottom of vein, and at the point of intersection follow both veins, they would within one year have a property that might not find a rival on the Pacific Coast. The veins are large on top, have grown larger with depth, and have sufficient value to leave a good margin, after deducting a reasonable sum for treatment, and if there is any reason why these properties should make it, the best in the west, we do not know what it is.

The Jean, located 3 1/2 miles east of Virginia Dale mine, is the property of Messrs. Killian & Sabates, known in the camp as the "French boys." Mr. Killian is the Recorder for the district. These gentlemen have four shafts on the Jean, three 90 feet deep and one 22 feet, one drift 30 feet. The average depth is 42 feet. The output from the mine is being milled at the "French boys" mill, 7 1/2 miles from the mine.

The Supply parallel to the Jean, and five hundred feet to the north, has a shaft 90 feet deep and several small drifts, also an 85 foot tunnel. The vein was very small on top and has varied from 1 to 7 feet in the shaft.
CORRESPONDENCE

ARIZONA.

DATE CREEK MOUNTAINS.

PHOENIX, ARIZONA, April 20, 96.

The Turner group of mines consist of three locations: the Golden Wave, first extension west of the Ethel. The last is a vein and mill site, formerly an abundance of water for mill purposes, etc.

The mines are situated about one mile north-west of the Congress mine. The Golden Wave was first located by Dennis May, the man who originally located and sold the bonanza to "Diamond Joe."

The development work shows a shaft sunk to a depth of 150 feet, a drift 50 feet long, which runs east from the shaft, 50 feet from the surface, and 200 feet of other developments, consisting of holes and tunnels on the first extension and other parts of the Golden Wave.

The mine was worked by Dennis May, 14 years ago, and about 200 tons of ore taken out and hauled to the foot of the mountain to the mill site now owned by Turner, there he erected a steam arastra in which the ore was worked.

The ore yielded by amalgamation only ten dollars a ton, which at that time would not pay. One year ago the arastra tailings were washed over blankets, which process caught much of the mineral in the nap of the same. The concentrates thus made were shipped to Prescott, treated by Mr. Wm. Gregory, and sold at the sampling works at that place.

That which was washed from the blankets in the upper sluice boxes being taken for first class, the lower for second class. The first class ran to ounces gold, the second 1/2 ounces.

The Congress mine is precisely similar to the Golden Wave in geological characteristics and the quantity of the ores.

P. J. CLARK.

Articles of incorporation of the Grand Canyon Mining Co., for silver, filed in Prescott, Arizona. The principal office of the company will be in Prescott, the capital stock is $500,000, divided into five hundred thousand shares of $100 each. The following gentlemen constitute the Board of Directors for the first year:

P. D. Barnhart, President and General Manager; Eli Hickey, Vice President; A. D. Barnhart, Secretary and Treasurer; G. H. Richardson and J. O. Richardson.

The deepest gold mine in the world is at Eureka, California; depth, 2,290 feet. The deepest silver mine is at Virginia City, Nevada; depth, 3,300 feet.

ARIZONA.

The report that was current lately in reference to an interest in the Waters mine in the Santa Maria mining district having been sold by Channing D. Clark, the prospector, to Peoria, Ihs., people is a mistake. We are informed that the only change to be made in that property is an increase of twenty more stamps, which will make the milling capacity forty stamps, the same that is being run at the Congress mine.

R. C. Houston has purchased the old Tip Top quartz mill and will erect it on the Agua Fria, where he has contracted to crush 2,000 tons of ore.

J. W. Yokum has employed P. H. Cayle to haul his 10-stamp mill to Humbug. It weighs 115 tons. As large quantities of ore are already on the dump at some of the mines in that section, the mill will be kept busy. One mine alone has ore valued at a 10-stamp of a million dollars ready to haul to the mill.

The steamer Gila arrived in Yuma last week from Ehrenburg. The two barges, laden with the 10-stamp mill from La Paz mine were expected April 23rd.

The mining exchange in Phoenix is now an assured fact. A gentleman from Phoenix, who is now in Los Angeles, was recently interviewed by a representative of THE MINING AND METALLURGICAL JOURNAL of Los Angeles, and we are informed that a sufficient number of reliable men have been guaranteed to start the exchange on a sound footing.

(Mohave County Miner.)

The affairs of the Flores Mining Company will be settled up in a few days, and that rich property will once more commence shipping bullion.

A French syndicate is about to take hold of the Temple Bar placer mines and will put in an immense hydraulic plant to work them. Engineers are now working on designs for the plant.

It is reported that Harshberger & Gill took a three-ounce nugget of gold from their dry diggings in the Chemecheunis mountains the other day. It was probably a retort the boys were working off as a nugget.

John Barry is shipping daily large quantities of rich ore and concentrates to the Denver ore market. The ore is produced from the Minnesota mine. The rich ore is assayed and the low grade crushed and concentrated before shipping.

O. D. Cluck has taken charge of the Cerbat mine for a new mining company recently organized by O. B. Whitney. It is said that Mr. Whitney will be in Kingman in a very short time to pay off the indebtedness of the old company and start up work on the mine and mill. We hope so.

C. W. Tozer, the San Francisco mining man, who has been examining property in this county, has gone to the Grand Canyon, north of Flagstaff, to examine a copper mine. He was there two weeks ago and is due back in about two weeks, and will probably make some purchase for San Francisco parties.

Thomas MacMahon and William Larkin have had six tons of Nighthawk ore worked.
P Boss, the mining and metallurgical journal.

Dr. Dutcher has leased his McClellan mine in Lynx creek district to Messrs. Behn, Roache & Kleinsmith. By a direct line, this claim is about five miles from Prescott. The ore is a galena, and the average grade of silver in the ore is from 6 to 21 inches wide, and the average value is $250 per ton in gold and silver. The lease will at once begin sinking and drifting on the vein. They have an excellent showing for lots of high grade ore, while it seems nearly certain that the doctor has a bonanza.

The United Globe mines have a force of men employed putting up their new sawmill and furnishing mine timbers for the Old Dominion Commercial Company.

CALIFORNIA.

SANDIAGO COUNTY.

Picaacho Mining District.

Ex-Senator Dorsey, S. B. Morgan and Hon. J. H. Carpenter returned from the Picacho mines April 23d. The Yuma Sun is informed that, as a result of the recent trip to Los Angeles, satisfactory arrangements were made for the purchase of the interests of Allen J. Smith and Mendivel in the twenty-eight claims, representing the claims ex-Senator Dorsey and associates have been interested in at Picacho. The first payment has been made and nothing now remains to prevent them going on with the work. We understand on good authority that it is their intention to keep a small force at work on development this summer and that this fall a 200 stamp mill will be erected on the premises. In the meantime, they expect to get the mines patented.

The Sun reporter has visited this group of mines and does not hesitate to say that in his judgment this is the biggest mining property in the Southwest. Senator Dorsey is making arrangements for beginning active operations this fall.

LOWER CALIFORNIA.

The Piramide mining people have their machinery on the way to the mines in Lower California.

MEXICO.

Denominations.

By Jesus Solis and Miguel Raston, the property adjacent to La Cruz and California mines, situated in the municipality of Morris, district of Ocampo.

By Henry Peterson, eight claims, bearing gold and silver, named Virginiana, located in the district of Ocampo.

By Francisco Siqueiros, the adjacent properties between the Mariposa and San Amado mines, named Nuevo San Salvador, located in the district of Ocampo, also one claim named Guadalupe de Santa Juliana, situated in the mountain of Santa Ana in the district of Ocampo.

By Propoci Ola, six claims, gold and silver, named La Humildad, next to San Amado and Mariposa mines of Francisco Siqueiros, located in the mountain of Santa Ana in the district of Ocampo. Also by same party five

THE MINE DISTRICT.

Those Who are Working in this Coming Section.

Since the discovery of the famous Pearce mine, and later the opening up of the Johnstone-Fitts claims on Tomlinson Hill, interest has been centered and all eyes turned toward the new camp that has sprung up here, thus a reconquest of the numerous prospects on Tomlinson hill and vicinity will not be amiss.

Outside of the big bonanza, whose progress is receiving attention almost daily through the columns of the Prospector, and which continues a marvel to all mining men, the Johnson-Fitts claims rank next. A full account of an interview with owners and the work done with this property April 28th.

Sam Watt and Ed Tarbell, who have an adjoining claim to the Johnson-Fitts mine, are industriously sinking with excellent indications. They do not expect to tap the deposit of ore for which they are headed short of fifty feet, and are pushing forward with vim and muscle. Their camp is established near by, and such indefatigable energy as displayed by them should be rewarded with success.

August Zeller and partner have a well-defined ledge recently struck on their property, which is five feet in width. The ore is of fair grade, and the encouraging sign of better looking ore as depth is attained gives an incentive to renewed efforts. The shaft is done about twenty-five feet, and quite a dump increasing daily as a monument to their labor. J. N. McConough and Chas. Goetzmen are interested in this group.—Prospector.

J. J. Fisher, United States deputy surveyor, is now at work on the March, Conglomerate, Iron Carbonates and Ritter Creek claims, the property of G. W. Hall.

The new rebevator, for the United Verde Copper Co., at Jerome, is about finished.

About seventy miles north of Ehrenburg, the new find is to be turned out well. A tunnel is being run on the ledge, which is over four feet wide and which shows well in gold and copper.

J. P. Levy came down from McCloud's Camp, April 18th, in a boat. He reports three men sinking a shaft on these claims, and they are now down fifty feet. The outlook is very encouraging, and the miners are hopeful. Mr. Levy also inspected the Senator mine, the property of John C. Beatty, and he considers it a great property. He will leave in a day or two for the Harqua Halas, and after doing some prospecting there will return to Norton to do some work on one of his claims.—Yuma Advertiser.

PEARCE DISTRICT.

Since the discovery of the famous Pearce mine, and later the opening up of the Johnstone-Fitts claims on Tomlinson Hill, interest has been centered and all eyes turned toward the new camp that has sprung up here, thus a reconquest of the numerous prospects on Tomlinson hill and vicinity will not be amiss.

Outside of the big bonanza, whose progress is receiving attention almost daily through the columns of the Prospector, and which continues a marvel to all mining men, the Johnstone-Fitts claims rank next. A full account of an interview with owners and the work done with this property April 28th.

Sam Watt and Ed Tarbell, who have an adjoining claim to the Johnson-Fitts mine, are industriously sinking with excellent indications. They do not expect to tap the deposit of ore for which they are headed short of fifty feet, and are pushing forward with vim and muscle. Their camp is established near by, and such indefatigable energy as displayed by them should be rewarded with success.

August Zeller and partner have a well-defined ledge recently struck on their property, which is five feet in width. The ore is of fair grade, and the encouraging sign of better looking ore as depth is attained gives an incentive to renewed efforts. The shaft is done about twenty-five feet, and quite a dump increasing daily as a monument to their labor. J. N. McConough and Chas. Goetzmen are interested in this group.—Prospector.
claims, gold and silver, named La Cruz, located in the Sante Fe mountains in the northern part of the district of Ocampo.

By George Lock, James Taylor, Samuel Dedurik and Jesus Maria Casavantes, six claims, bearing silver, lead and copper, named Guanapita, situated west of the mines Estrella del Norte in the district of Guerrero.

By Albion B. Shepard, the adjacent properties of the Ruiz and Pina mines, in the Tes- oripa mountains in the Yepachic section of Guerrero district. Also by same party fifteen claims, named El Capitan, north-west of the El Conde mines of Messrs. Bowing and Prescott, in the Tesoripa mountains, Yepachic section, district of Guerrero.

By Jose W. Mendez and partners, eight claims, named El Progreso, in the Pajarito mountains, Camargo district.—Chihahua Enterprise.

NEW MEXICO.

[The Optic.]

No one can gainsay that there is a feeling of confidence in Las Vegas in the future prosperity of the Hematite mining district, which is located in the northern part of the Territory. Many look upon it as the coming Cripple Creek of New Mexico. So far the Optic has not been a single man who has visited this camp who has returned with an unfavorable report, or, in fact, who has not returned with very flattering reports. Some of those who are in a position to learn which way the straws are blowing, claim that in the next four months more than 2000 people will locate in the Hematite district. The title of the land, up there, is undisputed and the manner of the contract being exceedingly liberal in their terms with locators, even making better terms than can be made with the government.

The Optic has arranged for a regular weekly correspondence from the Hematite district, and will furnish its readers with the plain, unexaggerated truth.

The faith of the Surprise mine owners grows stronger with each passing day.

The coal mine out near Trout Springs is showing up better and better as the work of development proceeds.

Statehood means foreign capital to develop New Mexico's mines, and this capital will not be unwisely placed, either.

A regular camp has been established out near Mineral Hill, this county, composed largely of men who have crossed the main range from Santa Fe.

The Las Vegas Mining and Prospecting Company expect to have a report on their recent mill run, made from their Lake Valley mines, recently.

There is always a calm just before a storm, and the lull in business, now, may be the forerunner of better times. The mining interests are yet to prove to be the salvation of New Mexico.

The owners of the Last Chance mine in the Mogollons, New Mexico, have refused an offer of $50,000 for the property from Eastern capitalists.

D. C. Winters has some fine samples of sulphur, alum, asphaltum and onyx, all of which came from different places in San Mi-
guel county. A number of inquiries have been received by him from Chicago, in answer to an advertisement he had inserted in the newspapers.

Don Lorenzo Lopez is down about eighty feet in the old Spanish mine, in the vicinity of Huacho. The company has recently been discovered in the Jicarilla mountains. The gravel ground is over five miles square, and is being operated with dry washers; there is plenty of good timber but water is scarce.

The Missouri Belle, owned and now being developed by Carley & Sullivan, is showing up very well indeed. They have a well defined lead, about eighteen inches in width, the ore from which prospects well in gold. This is the claim from which a sample of ore was taken, at a few weeks' time, estimated at $200 in gold. The vein pinched on sinking on it, but the owners, having faith in their prospect, kept going down, and it looks as if they were about to receive their reward, in a good lead of rich gold ore.—Cerrillos Rustler.

Water has been found in the Williams & Gonzales coal mine, near Cerrillos, at a depth of about fifty feet, and about twenty feet above the river bed. They are now working in the three-foot vein of first-class coal.

Reports come to White Oaks from the Jicarilla of a new strike of very rich gold ore on Soldier gulch, by "Scouty."

Another car of very rich ore from the Ortiz mine is being loaded at Cerrillos for Pueblo.

W. H. Skidmore, who leased the Bennett Stephenson mine about a month ago, has already shipped one car of first-class ore to Pue- chio, Col., and has two more carloads on the dump ready for shipment.

Sixty-five men are working on the properties of the new company who recently bought the old Cerrillos mines. The company have several other properties which are being rapidly developed, among them are the Imperial, McDonal and Summit group.

The Texas and Grand Central mines are keeping up their reputation as producers. Many needed improvements are in progress. A large steam hoisting plant will take the place of the one formerly in use, and will furnish hoisting facilities to a depth of 500 feet. A general resume of operations upon these valuable properties will soon be given in these columns.

Rogers, Biddle and Harlee are working day and night on the Roscoe mine at Hilltop, near Whitewater caomo, on the Silver City & Northern railroad. The shaft is down nearly thirty feet and shows a 14-inch vein of rich ground. So far the ground has recently been discovered. This property gives promise of being a permanent producer.

The Southwestern Coal and Iron company will commence shipping iron to El Paso next week.

The New Mexico and Arizona Smelting company of Ivanhoe blew in their smelter last week. The shortage of water at Pinos Altos has curtailed the supply of sulphur ores, which were produced by concentration, and in consequence the smelter was compelled to suspend operations temporarily.

The New Mexico and Arizona Smelting company, with offices at Mesilla, is working on the Guadalupe, Yosmite and Chino copper mines at Santa Rita. The mines are owned by the Santa Rita Copper company, and are being worked under lease by the smelting company. All three of these mines are now producing fair quantities of good copper ore.

Mogollon.

It is asserted, by those in position to know, that all conflicting claims to the Little Pinnac mine have been settled, and that this valuable property will soon be started again.

The Maud S. is running steadily on free milling ore from the Last Attempt and Maud S. mines. The prospects of the company are brighter than they have been in the past year. Dividends may soon be looked for.

The Confidence mine was started in on Wednesday morning, April 1st. The ore bins are all filled, and contain sufficient ore reserves to keep the mill running steadily during stormy weather, which might delay the ore teams. The mine is producing its regular quota of eighty tons per day.

One of the quickest moves ever made in the camp was the putting in place and starting the Deep Down stamp mill, which commenced crushing ore April 20th. The mill was purchased, shipped from Silver City, put up in place and crushing ore all within three weeks. This beats all previous records on milling machinery.

WHITE OAKS.

The Old Abe Co. have been running their twenty-stamp mill on ore from the dump, and with excellent results. The cave-in of the mine was a dire calamity for White Oaks, but work on the old Carrillos more indicates a brighter prospect for the future.

Other mines on Baxter mountain, the only mineral section of the White Oaks district, are idle and nothing is being done with them. Some parties are doing their assessments and developing their properties at the same time.

Strike at Golden.

The correspondent of the Cerrillos Rustler writes to that paper as follows:

The recent strike made on the C. & C., formerly the St. Elmo mining claim, within half a mile of San Pedro, is attracting considerable attention. The owners of the claim, Mr. T. M. McAlmair and Joe Stewart, in cross-cutting from the bottom of the fifty-foot shaft at the entrance to the main drift at a depth of seventy-five feet, have struck a strong lead of iron and manganese ore. The lead is from ten to twelve feet in width. The ore runs well up in gold, one assay test giving a return of $50 per ton.

There has not been an average test made as yet, but it will be done at once. The ore re.
seems that found in the Lincoln-Lucky. The regular trend of the lead is east, dipping to the northeast, and from all appearances this ore body runs under the present body of the Lincoln-Lucky at a depth of several hundred feet. The mine lies just northwest of and adjoining the Lincoln-Lucky. This vein is a true fissure which has been traced for over 700 feet on the surface. At a depth of from thirty to thirty-five feet this fissure varies from three to eighteen inches in width, and a drift was run in at the depth named for a distance of 220 feet, showing some rich, but not any great quantity. The 30-foot shaft at the mouth of this drift was sunk on the small fissure. This shaft and the 220-foot drift was run all the way within four feet of this large body of ore which the cross cutting has shown up. It seems that they have only struck the edge of the lead as yet, and great things are expected when they get well into the vein. There is no telling how many more large ore bodies are likely to be opened up within a few feet more of development work. It looks as if these fortunate owners of the C. & C. have struck the mother lode of that section.

SILVER CITY.

The Silver City Smelting and Refining Company have been delayed in starting their plant by the tardiness of the manufacturers who have the contract for the new stack. The new furnace will be shipped from Chicago May 2nd. In the meantime many needed improvements are being made at the works. The auxiliary furnace has been moved and rebuilt, ready for operation when needed. It will be but a short time after the arrival of the new water-jacket till the works are in full blast.

PINOS ALTOS.

The shaft house on the Astec mine was blown down by the high wind which prevailed Friday night. It is probable that the machinery will be moved to the tunnel level before work is resumed.

The Treasure Mining Company of Denver, Colo., are pushing development as rapidly as possible, under the management of J. G. Shockley. On Saturday the shaft attained a depth of 307 feet and sinking has been temporarily suspended while drifts are being run at the 200-foot level. Ore is being stopped from the 200-foot level and everything is being put in readiness to start the mill as soon as a few necessary small pieces of machinery arrive. The pipe which conveys water from the spring to the mill has been repaired and over 1000 feet of new pipe used to replace the old worn material. Within two weeks the Alantic mine will again be on the list of gold producers.

The Copper Flat Mining Company of Copper Flat, Grant county, are sinking several shafts on that property. One working shaft is now down 260 feet, and it is the intention of the company to extend it at least 500 feet, if water is not found above that level. The company also have in view the building of a smelter for treating copper ore.

Cerrillos has been greatly excited in the last week by the discovery of petroleum in the well of a Mr. Matthews living near the depot at that place. Work in the boring has been in operation for some time, and the well is down 112 feet. The last 40 feet has been through solid slate. On Saturday last the sand pump was used to clean out the boring. It brought up a considerable quantity of oil, which on examination proved to be petroleum. There is much excitement in the town and a company has been organized to develop the field, should the analyses prove the oil to be of sufficient commercial value. We hope that the oil will be all right, and that it will be found in sufficient quantity. It will encourage our own townsmen to persevere in the local oil field in that event.

Gleaner, April 25th.

IVANHOE.

The smelter is running regularly now, and is receiving an abundance of ore and concentrates. The output of matte is up to the usual average, and everything is going on swimmingly. The Pacific mill concentrates are being shipped there for treatment.

WHISKEY CREEK.

Harvey H. Whitehill's new find of lead ore has every indication of proving a bonanza. The shaft is now down sixteen feet, and shows up for fine high grade ore. Two men have been at work for the past week, and they have taken out some good ore, a considerable portion of which has been shipped. The ore is the same good copper silver ore in another place as well as some silver float which at a moderate estimate will run 10,000 or 12,000 ounces per ton. There is no company at the Cripple Creek where such ore can be found much nearer home.

Taylor & Whitehill have completed the assessment work on their copper-silver-gold properties in the Potrillo hills. They have just received two tons of high grade ore, and they expect to do considerable more work this summer.

GENERAL NEWS.

PATENTS.

Messrs. Hazard & Townsend, solicitors of patents, room 9 Downey Block, Los Angeles, California, are preparing recent patents of interest to mining men:

April 14. No. 558,460—Amalgamator—W. Robinson, Denver, Colorado, Assignor one-half to J. E. Greenwall. A casing is provided with oppositely inclined series of perforated amalgamating plates having a screen above each plate and a rotary fan or dasher arranged between each series to agitate the material and cause it to pass through the screens and plates.

April 14th. No. 558,357—Electrical Furnace—M. R. Conley, Brooklyn, New York. Assignor to W. B. Bell, New York. An electrical furnace constructed of a composition containing carbon, integral arms of the same material on opposite parts of the vessel, and the terminals of an electric circuit connected with the same.

April 14th. No. 558,850—Electric Mining Cage and Elevator—C. J. Cutler, Butte, Montana. Vertical guides are provided with toothed bar for running a cage which carries an electric motor having pinions working in the gears and operated by a trolley. Suitable safety devices are provided in case of breakage.

April 14th. No. 558,190—Stamp Mill—W. A. Logue,Sunset, Montana. A revolvable cylinder, consisting of three rings having internal openings of different sizes, and stamp shoes arranged to grind on the inner faces of the rings.

April 21. No. 558,725—Process of producing Hydrochloric acid—Frank A. Gooch, New Haven, Conn., Assignor to the Waldo Foundry, Bridgeport, Conn. Aluminous material is treated with dilute hydrochloric acid, the acid being treated with the undissolved residue by filtration, the gaseous hydrochloric acid is then introduced into the solution, and the precipitate separated therefrom.

April 21. No. 558,726—Process of producing Hydrochloric Chloride of Aluminum—F. A. Gooch, New Haven, Conn., Assignor to the Waldo Foundry, Bridgeport, Conn. Aluminous earth is heated together with sulphuric acid, then treated with dilute hydrochloric acid, separated by filtration, gaseous hydrochloric acid introduced into the solution, and the precipitate separated therefrom.

April 21—No. 558,745—Method of treating Arsenical Ores—D. Sheedy, Denver, Colorado. The speiss is separated from the matte product of the furnace, crushed and spread over a bed of fume, the fume is ignited to drive off the arsenic and center the fume and valuable metallic constituents of this speiss.

April 21. No. 558,757—Counterbalance for Sluice Boxes—Ore Cart—R. Q. Carter, Evanston, Ill. One end of the chain is attached to the chute, passes up over a windlass, thence down under a pulley, thence over another pulley, thence downward, having counterbalancing weights secured at intervals along its pendant length, and its end fastened to the frame-work, so that as the chute is raised into a perpendicular position, the weights are one after another lifted by the framework instead of the chute.

April 21. Nos. 558,647 and 558,648—Two patents, both for Apparatus for Separating Matte from Slag—M. W. Tilley, Denver, Colorado. Both patents consist in substance of a furnace provided with two outlets, one for the slag, and a lower one for the matte. The furnaces are movable so they may be tilted to draw all the matte from the slag.

April 21. No. 558,674—Ore Mining and Separating Machine—C. Covel, Chicago, Ill. A series of mercury bath frames, each having a basin embeded in a screen and screen opening in the other, such arrangement alternating throughout the series, suitable partitions and pivoted rockers for carrying the ore through the bath and over the screen through which the ore passes into the next succeeding mercury bath.

April 21. No. 558,615—Ore Concentrator—J. W. Wenneken and C. Hart, Frisco, Utah. Assignors one-third to J. H. Johns, same place. A circular rotary platform having a central opening is arranged to pass beneath a brush which reciprocates over the platform, radially, to assist in delivering the ore to a gauge around the central opening where a launder is arranged to receive the ore.

April 21. No. 558,803—H. Gregory, Jr., Boston, Mass. —Ore Crusher. A circular bed having inclined sides is provided with a series of wheels or rollers having inclined faces fitting the bed and carried thereon by a rotating shaft.

April 21. No. 558,622—Rock Boring Machine—Rudolph Meyer, Milheim-on-the-Rhine, Germany. This comprises improvements in the arrangement of the inlet and exhaust passages of the expansive rock boring device.
The Fulton Engine Works, Los Angeles, Cal., are building a jet condenser for the Los Angeles Electric Company to condense the steam from a 1300 horse-power compound engine. The design is similar to the recently built for the company's 900 horse-power compound engine. The new condenser will be about 11,000 pounds when completed and is operated by a pair of compound engines directly connected to the air pump pistons, which are twenty-four inches in diameter. A large portion of the air pump portion of the condenser is of composition which they have special facilities for turning out. The heaviest single casting is 20 tons. Lou Miles, the designer of the condenser weighs about 11,000 pounds. For handling this extra heavy line of work the Fulton have a massive electric traveling crane capable of handling twenty tons, the motor on the crane being fifteen horse-power. The electric current is taken from the Los Angeles Electric Company's wires.

We have received the handsome catalogue of the Fulton Engineering and Shipbuilding Works of San Francisco, Cal. They have built a dry mill and a dry mill for the west, the last one being that of the Gold Cross Mining Co. at Hedges, San Diego county, Cal. This mill of 100 stamp mills has been pronounced by all who have seen it to be the most complete of the kind on the coast. It has been fully described in our column of the Fulton Engineering and Shipbuilding Works have one of the largest works on the Coast, and are fully prepared to turn out good work promptly, and all contemplating the erection of mills will do well to correspond with them at 211 First street, San Francisco, Cal.

The well-known Hammond Manufacturing Co. of Portland, Oregon, are building a 20-stamp mill for one of the big mines in Southern Oregon. This mill is to be built in such a way that either steam or electricity can be used. A fine water power system has been put in, and will furnish power for the electric plant. The Hammond Manufacturing Co. have been building mills and dealing in mining machinery and the engineers understand the needs of the miners. They are prepared to furnish good machinery as cheap as it can be found in any part of the country. Their advertisement will be found on page 17.

At Johannesburg, South Africa, a mine staff usually consists of a general manager with a salary varying from $6,000 to $15,000 a year, and the following: Manager, $200 to $400 a month; underground manager, $200 to $350; assayer, $250 to $350; chief engineer, $200 to $300; compound manager, $150 to $250; secretary, $150 to $250; surveyor, $150 to $200; assayer, $125 to $200; storekeeper, $75 to $125; timkeeper, $100 to $125; boarding houses charge $15 per month.

Articles of incorporation of the Minnesota, Arizona Mining and Development Co. were filed with the County Recorder at Phoenix, Arizona, April 4th. The officers of the company are: T. T. Brown, President and Treasurer; James W. Lawrence, Vice President, and Frank L. Conkey Secretary. The authorized capital stock is $50,000, divided into 10 shares of $500 each. The principal place of business will be Phoenix, Arizona.

The big test case between the Mercur Gold Mining and Milling Company and the Gold and Silver Extraction Company of America, limited, has been won by the Gold and Silver Extraction Company of America, limited. The Mercur Company have paid $20,000 in back wages to the 50-ton cyanide plant, at Leadville, Colorado, to handle the low grade ores of the Leadville gold belt. A new plant is being erected in Arizona, to use the process, and the Metallurgical Extraction Company, at Cyanide, Fremont County, Colorado, are doubling their present 150-ton daily capacity. The business of the Gold and Silver Extraction Company is largely on the increase, and in many districts where mining has not been carried on for years, on account of ore being too low grade, the process is being tested, and before twelve months have passed, bullion will be turning out of localities which are present are producing nothing.

Articles of incorporation of the Prescott and a Gold and Silver Extraction Company of Arizona, were filed in Ohio April 11th. The principal office will be in Cleveland, Ohio. The authorized capital stock is $2,000,000, divided into 100,000 shares of $20 each. The Board of Directors for the first year are Messrs. Frank Billings, W. H. Dodge, W. S. Chamberlain, A. R. Fleischmann and J. P. Perkins.

PERSONAL—NEWS ITEMS

Judge John N. Campbell of San Bernardino was one of the callers at the Journal office this week.

Prof. H. A. Ream of the School of Mines at Suncoor, New Mexico, returned the middle of last month from Washington, where he has been to secure appropriations for the school.

John L. Ginn of El Paso, Texas, has been on a professional trip to Clifton, Arizona.

Mr. A. A. Watson of the成功的 mineral from the Dragon Mountains, Arizona, has gone to Bisbee, Arizona, on a visit.

A. J. Dorn has returned to Goldfield, Arizona, after a short absence. He is the superintendent of the Bulldog mine there.

J. I. Riley, the mining man, arrived in Prescott, Arizona, April 20th.

Thomas Lewis of Hedges, Cal., has gone to the Fortuna mine, in Arizona.

Frank Agara, superintendent of the Dorsey mines on the Colorado river, was in Yuma, Arizona, last week.

Dr. J. W. Ford of Phoenix, Arizona, has just returned from a mining trip to Goldfield, Arizona.

Mr. S. Harris has arrived in Kingman after a six months prospecting trip.

E. Thayer of Phoenix, Arizona, has gone on a trip to Parsons, Kansas.

Mr. J. H. Elderidge of the Bradley Pudler Company, of Boston, Mass., gave the Journal office a pleasing call on the 17th ult. Mr. Elderidge was here in the interest of the company.

Harry E. Holland, one of the former owners of the Elevada mine at Bannister, Cal., has gone on a prospecting trip to the desert, taken out a license for the southwest.

A. P. Hume, of Chihuahua, Mexico, has gone to Batopilas, Mexico.

H. T. Rodwell of Los Angeles, California, has gone to the Altura mine in San Bernardino county, where he will fill the position of assayer.

Charles A. P. El Oroyo mines, Mexico, is stopping in the City of Mexico, Mexico, for a short time. Mr. Crandall of the Bon Triker mine at Manvel, was a visitor in Los Angeles last week.

E. E. Smith of Chicago is in Los Angeles looking for a good mining proposition in Southern California or the southwest.

C. Steverun of the Boulder camp, was among the visitors in Los Angeles during Easter week.

F. H. Coffey, connected with the Boulder Mining Co. at Boulder, Riverside county, was a caller at the Journal, April 17th.

W. H. Shaw of Ventura, Cal., who has just completed a course in assaying at Wade & Wade's office in Los Angeles, Cal., will leave for Prescott, Arizona, in a few weeks.

W. T. Smith, one of the prominent assayers of Los Angeles, has returned from New York City. He reports that they took a mining trip to New York.

H. W. Hardinge, E. M., returned from Denver, Colorado, last week.

M. L. Wade has returned from Riverside county and reports the outlook favorable in the districts he visited.

C. E. Read from the Desert Queen district, Riverside county, has gone to Winchester, Cal.

Judge Richard De Kalb of Cherry Creek, Arizona, was on a trip to Prescott.

S. B. Kempton, E. M., of the Vulture mine, Arizona, has been to Phoenix, Arizona, on a business trip. He reports his camp in a favorable condition.

John Rock, an old-timer from Tombstone, Arizona, received serious injuries in the McCabe mine near Prescott, Arizona, a short time ago.

John Hoy, one of the famous miners in the Organ Mountains in Southern New Mexico, was in Las Cruces, N. M., last week and reports a very rich strike in San Augustine Peak, only eight miles from Las Cruces.

Messrs. Lewisohn & Hynes of the firm of Lewisohn, New York City, were in Clifton, Arizona, last week.

A. H. Turner, of Oregon, and a placer miner, was one of the callers at the Journal office, April 28th.

P J. Clark, of Phoenix, Arizona, spent a week in Los Angeles during the last week.

P. P. Besh, representing the Canton Steel Company, of Denver, Colorado, was a caller at the Journal office, April 11th.

A. W. Davis, of the Yavapai Mining Company, of Lower California, was one of the callers at the Journal office, April 27th.

Judge G. E. Ouz, of the Altura Mine, San Bernardino county, was one of the callers at the Journal office this week.

Wm. Guggenheim, one of the men of the important smelting firm of Colorado and Mexico, was in the City of Mexico, April 25th.

W. P. Wright, of Chihuahua, Mexico, has gone to Guererro, Mexico, on business.

S. S. Gates, of Mexico, has gone to Washington, D. C., on business.

J. M. Day, of the Golden Charriot Mine, in the Prescott district, Cal., has returned from Mexico.

A. L. Villaners, of Guadalupe, Mexico, has gone to the City of Mexico, on the occasion of Mr. J. B. Williams, and with whom he expects to visit the Pinito Mines, in the State of Jalisco, Mexico.

The following mining men visited Los Angeles in the last two weeks:

2. Mr. Karpofner, of Glendora, Cal.
3. Ira H. Harmon, of San Jacinto, Cal.
4. B. Verner, of Perris, Cal.
5. E. B.aments, of Indio, Cal.
6. Pahl & Decker, of San Pedro, Cal.
7. W. Holt, of Death Valley, Cal.
8. J. W. J. Van Der Bank, of Los Angeles, Cal.
9. C. W. Deryke, of Lower California.
10. Chas. B. Pinney, of Indio, Cal.
11. B. H. Pedley, of San Jacinto, Cal.
12. S. Holland, of San Gabriel, Cal.
13. F. F. Faske, of Cripple Creek, Cal.
14. Mr. Thomas Ryan, of Lost Horse Mine, Cal.
15. Mr. M. A. of Lost Horse Mine, Cal.
16. E. Chilton, of Hemet, Cal.
17. Chas. Briggs, of San Jacinto, Cal.
18. Frank Deatherage, of Indio, Cal.
20. F. A. Wright, of Prescott, Ariz.
21. J. Reichenbach, of Indio, Cal.
22. J. Baker, of San Jacinto, Cal.
23. Frank Hale, of Death Valley, Cal.
24. A. D. Lloyd, of Indio, Cal.
25. W. R. Irland, of Barstow, Cal.
26. Frank O. Adams, of San Bernardino, Cal.
27. E. A. Wetmore, E. M., from Detroit, Michigan, recently from Yuma, Arizona.
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CONCENTRATORS
And all Classes of
MINING MACHINERY

Wire Rope Tramways with Automatic Loading Apparatus permitting the ore bins to be permanently open.

Specialty made of the Improved, Iron Frame Self-Costained Stamp Mill, the greatest success of the day in reduction of ore to pulp. A great boon to mill builders in countries where timber is plenty and therefore a greater boon to those who have no timber from which to draw the huge pieces needed in old style mills. We claim for this mill:

1st. It is no longer a new thing, but well tried and its durability proven.
2nd. Cheaper than the Wooden Frame Mill when ready to run.
3rd. Saves a great amount of delay in erection and it can be set up in as short a time as a self contained engine.
4th. Saves much space.

We call the attention of Prospects to our Self Contained Two Stamp Mill.

We have inaugurated a system of amalgamation and Concentration which renders both much more satisfactory and cheapens the cost of concentration by a great saving in the repairs to the complicated machinery now used.

Parties intending erecting mining plants would do well to investigate our mills. We build any mill desired and will deliver F. O. B. Steamer or cars at San Francisco, California.

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In California, Arizona, Nevada and Mexico

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WESTERN MINING BUREAU

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From Points in Mexico, New Mexico, Texas and Arizona, to El Paso, Pueblo, Denver and Kansas City.

### ATCHISON, TOPEKA & SANTA FE R.R.

<table>
<thead>
<tr>
<th>FROM TO</th>
<th>Car Loads, in dollars and cents per ton of 2,000 lbs.</th>
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<tbody>
<tr>
<td></td>
<td>Valuation $</td>
</tr>
<tr>
<td>El Paso</td>
<td>1500</td>
</tr>
<tr>
<td>Denver</td>
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</table>

### SOUTHERN CALIFORNIA RAILWAY.

Rate on Ore in car loads, valuation not to exceed $50 per ton, minimum weight 4,000 lbs. Ore Grandes, Cal., to Pueblo, Colo., 210.5 per ton.

Santo, Victor, Cal., to Pueblo, 300 per ton.

Ore, car loads, when coming from the Republic of Mexico, valuation not to exceed $50 per ton. San Diego or National City to Denver, Colo., and Pueblo, Cal., $175 per ton, 2,000 lbs.

The rate not to exceed $50 per ton, except for minimum weight 3,000 lbs. 275 per ton 100 lbs. to Denver and Pueblo, Col., from all points on the Southern California Railway.

### SOUTHERN PACIFIC R.R. COMPANY.

ORE TARIFF.

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**RATES ON COPPER OR ZINC ORE TO CANNON CITY.**

**Taking Effect July 1st, 1910.**—So far as rates on Copper or Zinc Ores are concerned, Cannon City, Cal., will be considered as common with Pueblo; in other words the rates shown in Tariff as applying on shipments of Ore to Pueblo, will also apply on shipments of Copper or Zinc Ore to Cannon City.

In the absence of positive information as to the value of Ore, Ore Concentrations, or Base Metal, Agents will bill at rates sufficiently high to cover the cost of handling. Bills of lading can be corrected when evidence of actual value is produced.

The market price at destination, to be verified by assays made by the Railroad Company, at owner's expense, will govern the value and determine the rate.

Agents must cause shippers to understand the condition upon which rates are based, and should make their receipts read: "Rates subject to correction according to value at destination." Thereupon apply to local consignor for a return receipt. When the lot consists of four tons and under ten, per ton, and on lots of one ton and less than four, 25 per cent will be added to above rates. Base Metal, Copper Ores and Ore Concentrations, in lots of less than one ton, will take first-class rates from all the above points, except when the rate based on value of ore and concentrator, that rates on small lots of high value may not be less than the rates when in lots of one ton or over as above.

Charges on Ore in car loads must be guaranteed, and on lots less than a car-load must be as before.

### OMAHA RATES.—The rates to Omaha, Neb., all grades, will be 25 per cent higher than the above rates.

Note.—All shipments of Ore and Concentrations valued not to exceed $40 per ton, must be filed for Ore Concentrations, "Valuation over $40 not to exceed $50 per ton," and shipping receipt must be issued by agent at said rate. Agents at destination is authorized to correct to rate for Ore and Concentrations, "Valuation not to exceed $50 per ton," upon presentation of proper certified smaller returns, showing that the value does not exceed $50 per ton.

Intermediate points not named will take rates provided for next station beyond.
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PUEBLO, COLORADO.

BUYERS OF
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Copper Matte and Bullion.

Refiners of Gold, Silver, Lead and Copper.

Manufacturers of Bar and Pig Lead, Lead Pipe, Antimonial Lead, Copper Ingots,
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Pays Highest Prices for all classes of Ores.
Especial Attention to Sampling by most Approved Processes.
Quick Returns on all Consignments.

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THE KENDALL PROCESS is the most efficient method of using cyanide for
the extraction of precious metals from their ore; wherever this process has been
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The Kendall System is covered by patents which this Company will defend.

THE AMERICAN CYANIDE GOLD & SILVER RECOVERY Co., organized in Denver,
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States, have closed contracts with some ten mines for the use of this process after
exhaustive comparative tests with the ordinary plain cyanide method.

Captain De la Már has adopted the process at his Nevada Mines, where a 250-
ton plant is being completed. He writes that he is saving 95 per cent. of his gold
values, and regards the Kendall Process as the cheapest and best he is aware of for
the treatment of gold ores.

All ores, without exception, amenable to cyanide treatment, can be treated to
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Owners of mines and reduction Works can obtain full information on application to

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EMBODYING IN PRINCIPLE THE
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30 FEET TO 2000 FEET.

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WOOD'S DRY PLACER MINER

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Water Works Machinery

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Improved Bryan Mills,
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Mining, Milling, Pumping and Hoisting Plants,

gold and silver stamp mills.

Catalogues and Prices on Application.

The above cut shows the general arrangement of Knight's Standard Water Wheels, of which there are more than 400 in use in California alone. These wheels are made from 8 feet to 6 feet in diameter, from 15 to 25 tons in weight, adapted to all heads and purposes. Descriptive circular mailed free on application.

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FOR ROASTING, CHLORINATING, AND DESULPHURIZING ORES.

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