

• HE newest and very latest camp which has only recently jumped into prominence is that of Green.
that reliable mining publication, "The Mining Investor," of Colorado Springs, has recently made a personal examinainto prominence is that of Greenwater. While many people think

it is in Nevada, it is not, but just across the state line on the other side of the Funeral range and in Inyo county, California. It is situated on the very edge of Death Valley and has enlisted a larger share of leading mining men in a shorter space of time than any of the older and now assured mining districts. Charles M. Schwab, Senator W. A. Clark, Senator Geo. S. Nixon, "Sam" Newhouse, "Patsy" Clark, Jno. W. Gates, Augustus Heinze, Malcolm Macdonald, Don B. Gillis, State Sena-tor T. L. Oddle and others less known are interested in this wonderful district. All these men are famous for the success they have achieved in min-

tion of Greenwater district and through his courtesy and by his permis-

sion it is reproduced here. He says: "The discoveries were made owing to the search for rich minerals which has been going on by thousands of prospectors in southern Nevada and prospectors in southern Nevada and northern California since the first dif-coveries were made in Tonopah a little over five years ago. Greenwater, while in California, is very close to the Nevada line, being but 45 miles southwest of the Bullfrog district, and located in the Funeral range near the Death valley. Enclusing the outmist Death valley. Enthusiastic optimists are already claiming for Greenwater that it is the richest camp yet discov-ered in the past five years, and is cer-tainly the greatest copper mining disthat the biggest either in Montana or Arizona. Whether these estimates of the optimists are true or not, remains to be seen. But already enough is Arizona. Whether these estimates of the optimists are true or not, remains to be seen. But already enough is known to make it certain that some remarkable copper gamps in the markably big and rich bodies of coper ore have been discovered in this new field, and where copper ores are

found on the surface so abundantly it is safe to figure they go down. The following condensed information in re-gard to the new camp has been con-plled by A. J. Messer, who is thor-oughly familiar with the Greenwater district. I consider the first struct is struct.

Location-Greenwater lies 45 miles by air line southwest of Builfrog on Fur-nace creek, in the Funeral range. The The district extends to the Nevada state Investments - Money invested in

Greenwater in this past six months, es-timated, \$15,000,000. (Note: This money was expended in purchase of property by copper ex-

perts whose engineers reported most avorably of the new deposits.)

favorably of the new deposits.) Properties-France Creek Copper company, \$3,000,00; Schwab property, \$200,000; Heinze, \$200,000; Roger Knox. \$150,000; Greenwater Furnace Creek company, \$100,000; Donnellan group, \$100,000; Copper Cliff group, \$75,000; Magna Chartz group, \$500,00; Gold Notes group, \$100,000; Rickard group, \$30,000; United Verde Fractions, \$10,000; Greenwater Calumet company, over 300 acres; Nicotine group, \$25,000; Morning Clory group, \$75,000; Rambler group, acres; Nicotine group, \$25,000; Morning Clory group, \$75,000; Rambler group,

trading with Los Angeles within the next 60 days. When the railroad reaches the Lila C. borax mine, it will be hard-ly 20 miles by railroad from Greenwater. Temperature-The temperature three weeks ago averaged from 104 degrees to 106 degrees in the shade. The air is so light that heat is not felt so much

Queen, Neverseen group, seven claims; Brock group, Kunze group, Salisberry group, 18 claims; Lisle group, 17 claims; Hub group, 13 claims; Nippera, Goveras in the east. In the winter, the cli-mate is very pleasant. The altitude is nor group, is claims; Anppela, Govel-nor group, four claims; Anaconda group, 18 claims; Crescent group, eight claims; Revenue group, eight claims; Investor group, 33 claims, McGinnis 5.400 feet. Town-There are three saloons, one lodging house, where a cot or springs on boxes can be secured for \$1 a night. There are two restaurants, one mer-chandles stors, one assay office, three surveyors' offices and five surveyors. One case of champagne was sent in, and may hought by Salaberry liquor

group Transportation-Via Salt Lake Railroad to Las Vegas; from Las Vegas via Las Vegas & Tonopah branch to Amarand was bought by Salsberry. Liquor is cooled by wet gunnysacks or wet shavings. A party from Delamar, Ida., is contemplating putting in a general gosa, 75 miles; from Amargosa by stage to Greenwater, 55 miles; stage fare \$18 one way. Coming in from the north, it is possible to go by railroad from Builfrog to Amargosa, and from Am-argosa by stage, Improvements-A nine-inch pipe line merchandlse store salaries—Carpenters get 18 for an eight-hour day; skilled miners, and skilled labor, \$5.50 a day; sinking and upraising in the mines, \$5 a lay; com-mon laborers and ordinary miners, \$4.50 a day is being built from the Amargosa river to Greenwater. The Borax Smith rail-

road is completing survey into the town of Greenwater. The grade of this road \$4.50 a day. Living Expenses-Enough canned will enable Greenwater to do its entire

goods for luncheon will cost \$2. An ordinary boarding house meal can be bought for \$1, with free water. Water sells at 25 cents a canteen, 75 cents for five gallons, \$7.59 a barrel. Rough lumber costs from \$150 to \$200 per 1,0004 Two sacks of potatoes, one bur-roload cast \$16

ro-load, cast \$16. Meats—There is no fresh meat in the camp, and no butcher shops. The only fresh meat obtainable is jack

the present time of a population of four women and 350 men. One hun-dred and fifty of the latter are pros-pectors and nearly all the balance are rabbits. Teams-Teams are worth \$25 a day, One team will drink \$11.59 worth of water a day, and will eat about \$5 worth of grain and hay.

miners. The credit for the original discover, is made in the Greenwater district is given to Frank McAllister, who was prospecting in this country sevenil years ago and who has made many efforts to interest capital therein. But it was not until the branch line from Las Vegas on the "Clark" railroad to the Bullfrog district was almost com-pleted that anyone would seriously consider the Greenwater field. How-over according to Mr. McAllister, they Conveniences-There are no barber shops and no bath tubs. The only method for cleanliness is dust baths, The animals—burros, coyotes, rats, rabbits, mice, etc., have kicked the rocks away from their wallows to take dust baths. The men wash their faces in the water, then store it away, and when a sufficient amount has accumulated, wash their clothes in it, and then give it to the burros to drink. Fuel—The present fuel consists of huge greasewood roots, which are dug ever, according to Mr. McAllister, they are now making up for lost time and are securing properties at big agures. up by the miners, and gasoline. Gaso. line ranges are used for cooking, For

Pioche Destined to Duplicate Its Twenty Million Record.

HE Ploche, Nevada mineral belt | zinc blende is found close to the walls is situated in a low isolated range of mountains about 6,000

feet above sea level in Cambrian quartzite and overlapping limestone formation throughout which run a number of ore hearing fissures, while a huge porphyry dyke, measuring over 80 feet wide rises abruptly, cutting its way prominently across the district and on for several miles to the west. Examinations made of the district by such notables as John Hays Hammond, Prof. Kemp. the geologist, the last year by Prof. Reinp, the geologist, the last year by Prof. Pack, professor of geology in Columbia college, to-gether with other engineers and prac-tical mining men has recognized this dyke as the main ore bearing channel of the district from which all the other veins have derived their metallic con-tents and is the Mathew lade of the tents and is the Mother lode of the

district. The big lode commences at a point from the Alps mine on the east, and runs westerly through the Yuba. Cur-rency Silver, Newark and Independent this latter ground covering the ledge the entire length of the Raymond & Ely claim by overlapping it, and pass-ing thence on to the west through the graind held by the Bamberger-Wood syndicate,

WORKED IN THE SEVENTIES.

It was developed in the early seven-ties by shafts sunk on the Yuba, 1,300 feet, Silver 900 feet, Newark 900 and lapped in the independent ground through a long cross cut run out from bottom of the old Raymond & Ely shaft at a depth of 1,200 feet below the sur-face, from which point it was further developed by a winze sunk 200 feet still deeper.

All the working mentioned being in All the working mentioned being in ore, showing it to be continuous from a short distance below the surface and to extend along the strike of the ledge for great distance, while the bot-tom levels are permanent and show the ore going on down to the deep.

ORE SULPHIDE IN CHARACTER.

The ore consists of the sulphides of lead, iron, zinc, with high silver and rold values; the general average being ground 50 cunces, silver, 15 per cent lead and \$5 gold per ton, while some

running over 200 ounces silver, one ounce gold and 50 per cent lead per ton. THE QUARTZITE FISSURE. The long quartzite fissure which lies about 200 feet south of the perphyry ledge, and paralell to it, is covered by the old Raymond & Ely and Mea-dow Valley mines from which over \$20,000,000 was produced within the ort space of six years from time their discovery in 1868 to around 1874. their discovery in 1868 to around 1874. This flasure varies in width from 4 to 30 feet and was worked down to the 1,200 feet or water level; and filled with oxidized cres averaging 100 ounces silver, \$\$ gold per ton, with some lead carbonate, but owing to the noor metal-lurigical facilities afforded in those days only two-thicds of the values

lays, only two-thirds of the values were extracted in the old time pan umalgamation mills at Bullionville; the

flings on hand at that place, and now whed by the Phoenix Reduction comany, show values in the unworked marial, agregating over \$3,000,000. BLACK LEDGE DISCOVERED.

It was during these "flush" days that It was during these "flush" days that the perphyry, ledge was discovered and a rich chute or ore nick-named the "black ledge" found upon it in the Independent ground contained horn silver and rich silver sulphides as-sociated with galena and zine blende and created considerable excitement, and yet at the same time a problem pre-sented itself which the early day metal-lurgists were unable to solve, viz., to extract the values from this go-called base material. No extraction could be obtained by the pan amalgamation treatment. Large sums were spent in experimental work in this country and abroad, and finally Howell reast-ing furnaces were erected to ronst with ng furnaces were erected to roast with salt, followed with amaigamation, but no avail, for the material was nelling ore and not free milling, nelling was then in a crude and im-

perfect state, which, added to the long wagon haul of over 350 miles to Palisade, the nearest railroad point, on the old Central Pacific, complicated matters worse than ever. their workings.

## CAUSED A SHUT DOWN.

These discouragements together with the fact that the ore contained in the quartzite fissure, changed to a lead at water level caused a general shut down in all the Ploche properties at a time | that concentrating is done in the big |

too, when millions were blocked out in mills of today for about a dollar a ton, [ and lead is readily separated from zinc, with the latter commanding a price of WHAT COSTS WERE THEN. The actual mining cost in those days yas \$44 a ton and milling cost \$22, makover \$120 a ton in the new York market. Lead formerly was worth next to nothing the total cost for mining and milling a ton of ore over \$66. Compar-ing the past with the present, some fdea as to the advance in mining and metallurgy can be had when It is known lug, but like copper, is now in great demand at \$110 a ton, while silver is on the upward grade, selling now around 70 cents an ounce, with some claiming it will touch the dollar mark. The building of a relieved

The building of a railroad into this

famous district is now about to be completed, and will deliver ores to the Salt Lake market around \$3 a ton. The fact that smelting rates are low-er now than ever known before; like Bingham, Park City and other old time stand-byes, Ploche will soon toke its place in the front ranks, and enter upon new era of production.

advancement. Many of its old mines are being rejuvenated and prepared for operation upon an extensive scale, while development this year has brought a good many new properties to the front and which promise to become rich producing mines. rich producing mines, The Nevada-Utah Mines & Smelters

orporation and the Ohio-Kentucky Mining company are probably doing the most important work in the camp at this time. The former has expended a great deal of maney during the past year in re-opening some of the camp's famous mines which had been in a state of inactivity for years.

OHIO-KENTUCKY OPERATION.

But the Ohio-Kentucky Mining company, recently organized, and which has been solidly financed, has been equally vigorous in bringing about new

equally vigorous in bringing about new conditions in this wonderful district of southern Nevada. The Ohio-Kentucky Mining company owns one-half of the so-called "Black Ledge" as well as a half interest in the Pioche Water works. Samuel New-house, was recently made president of the company, A. H. and E. L. Godbe and J. L. Hacket of Louisville Ken-iucky are extensively interested in the property and were instrumental in Inin in-

property and were instrumental in teresting Mr. Newhouse in Pioche.

## Reno the Prettiest Spot on All the Nevada Desert.

ERE are few prettier spots in all the west than Reno, situated in the northwestern corner of in the northwestern corner of

Nevada, near the California line. That it was overlooked in the boom days of the Comstock is not to be wondered at, because those who acquired suddenly immense fortunes, went just a couple of hundred miles further to the incomparable Golden Gate and made San Francisco the beautiful city it was. When those who made their money during the past five or six years at Tonopah, Goldfield, Bullfrog and elsewhere sought for a place to build their homes, they cast their eyes upon Reno and found a destrable place near at hand.

The beautiful Truckee river, which is the outlet of Lake Tahoe, flows right Diace in the front ranks, and enter upon a new era of production. ON EVE OF BIG BOOM. Ploche is on the eve of making rapid

parks, 10 enurches, two daily of pers, the best paved distriet streets of any town in the west. fast coming to the front as a resort. It is the seat of the N state with streets. New daily of the N state university, Nevada agri experiment station, and other institutions. Nature has done n Reno-its people are slowly doing a thing for it. Some day when the thing for it. Some day when timers have died off or have timers have died off or have bought off and the newer elem a foothold, Reno will be to what Denver is to C What Nevada needs, is public spirited citizen like T Stratton—the one made Denver other Colorado Spilngs—to ma great. Such a man has not yet, ever, made his appearance upo scene.

heat this winter, preparations are be-

Gasoline does the mining work, as in Goldfield and Tonopah, in a most ef-ficient manner. The thermometer has been known to go to 10 degrees below at Goldfield and 10 above at Bullfrog.

Last winter, the pipes were frozen in the Merchants hotel, and the floors

Population-Greenwater boasts at

ing made with

flooded.

miners,

lumber company

Ramsey and Its Location Close to the Comstock Lode

Only 25 miles from the great Com stock lies Ramsay, one of the news and most promising camps in the state It is yet in its infancy: but it is a lu healthy youngster which pro became a full grown first ci became a thir growth in a year or two. When su J. P. Loftus, J. R. Davis, Co Mayae of Salt Lake, H. W. bocker, Tom Ramsay, Fran Jack Reynolds cast their for a new district, it is safe to one became the same to be a same to be will be something doing o days. All of them have money in some of the other Nevada and are putting so

Ramsay. It is easily acc stage and automobile from () tion on the main line of th Pacific, and is 17 miles Churchill on the Hazon cut-Enough development work Enough development work done on the Ramsay Conste say Mining company. Wheeler and other properties to prove values are there. The dykes and surface values average a \$\$ per ton, while as greater de tained values increase. A tow been haid off and considerable has been done. Its location is

been laid off and considerable built has been done. Its locatich is in fi of Ramsay and so is the character the people who are develoring it. writer speaks by the card when he that there are no better people ope-ing anywhere in Nevada then are the at Ramsay. A boom may be looked in this camp in the early spring.



## - ODEI Capitan Mine OS