

PARK CITY.

Snake Creek District.

This district lies between Uintab and

interesting phenomena of the industrial world.

Camps there are, or rather have been, which sprung up like mushrooms, in a night, founded on wild rumors of fabulous veins of incredible richness, whose decay was as rapid as their growth.

But Park City is not of these, rather it resembles a city depending upon some immense manufacturing establishment, growing with the extension and enlargement of the factories.

In the early "eighties" of the last century there was an idea abroad, apparently given out by interested parties, that the Ontario company owned all the ground worthy of development in this district.

How false and misleading the impression was is best shown by the tremendous tonnage of silver-lead ore now being shipped by the Silver King, the Quincy, Daly-West, Anchor and Califormla

As a matter of fact Park City is the center and supply point for three great, mining districts, Uintab, Blue Ledge and Snake Creek and of these only Untah has been as yet developed to any extent, and that only in a few

In the thirty years which have passed since mineral was discovered on Crea-cent hill and in the Ontario, however, a few general facts have been estab-lished, among which are, that the velos of mineral bearing rock are permanent; that no yein of ore ever struck in this district has been worked out, and that at the greatest depth yet attained the

But the opening of the treasure vaults of the May Flower, Silver King, less than a dozen. Daly-West, Quiney and California, has removed the scales from the eyes of mining men, and capital for the past year has been eager to invest in promising ground in this viemity, and numerous companies are now sinking shafts, driving tunnels, and working sampler, miner fashion to get a share of the Just b wonderful deposits of ore which lie in huge bin

this favored region. In June, 1898, when the business por-tion of Park City, together with scores of residences, lay in ashes, many were heard to say that the camp could were heard to say that the blow, that never recover from the blow, that henceforth it would be but a one-horse

town, run by one or two men. These pessimists overlooked the fact that the producing capabilities of the camp were untouched, that so long as our mines produced the usual amount of ore and paid the usual amount of wages, business would be obliged to go on just as before.

Today Park City is rebuilt, her business houses are doing more business than ever before, more men are en-ployed at good wages, and the future

HE discovery, development and building up of a great mining camp is anways one of the most interesting phenomena of the

At the sampler the buckets of the train are loaded from chutes, each bucket detaching itself from the ca-bies and remaining stationary until the ecrival of the next bucket, which auto-matically starts the stationary one and takes its place to receive its load in

The head works of the tram at the sampler is a huge drum around which the running cubic passes. The drum is fitted with powerful brakes and a clutch which connects with a pulley on which runs a belt from the main driving shaft of the sampler, so that when in clutch the sped of the trainway is regulated by the speed of the enginehe brakes are not used and the power enerated by the pull of the leaded buck-is going down the long steep hill is innumitted by the helt to the main haft, thereby reducing the work of the

At the terminal each loaded bucket automatically detaches itself and starts empty on its journey to the mine The attendant takes a sample, pulls a ever, and the bucket dumps itself into a chute leading to either of the four huge bins, each of 25e tons capacity, and from which are other chutes leadlirectly into the railway cars ontwo tracks below.

ric motors are being placed at operating elevators to hoist coal the tramway, so that the ore comdown from the mine will be made carry up the coal used for fuel at mill and mine

For receiving the coal a large coal house has been erected at the mitte where the buckets will deliver their contents in the same manner as at the terminal station. The new sampler at the Silver King is a masterpiece of inat the greatest depin yer added veins are as strong as ever. It is only fair to say that had this camp been advertised and exploited as have some others, it would today have have some others, it would today have camp been advertised and exploited as have some others, it would today have have some of producing mines instead of camp been advertised and exploited as have some others, it would today have converting the engineer, can bandle sev. enty tons of ore per hour without crowding, hence it is in operation but a small portion of the time.

The sampler building is a massive structure, four stories in height, and all the ore both crude and concentrates is received on the fourth floor, the ore from the mine being run directly in as it comes from the shaft while the concentrates are heisted from the mill by a 250 horse-power friction hols. geared from the driving shaft of the

Just below the upper floor are four huge bins, three for receiving ore from the mine and one for concentrates. From these bins are chutes, which de-

liver the ore by means of a carrier belt to the powerful Comet crusher, after which it passes through three sets of Fraser & Chalmers rolls, and is then elevated to the upper floor where auto-matic samplers are atached to each of four steel elevators, and a 20 per cent sample thrown into one chute while the balance goes directly to a large elevator, which by means of a shifting spout delivers the ore into either of the loading bins.

The sample is picked up by another elevator and again a 20 per cent sample taken from it and so on through of the camp is better assured than at any time in its history. any time in the history.

any about nine hours per day. At the sampler the buckets of the At present the mine and works fur-

to carry on a great industry.

Blue Ledge districts on the north, and American Fork on the south, and cov-THE OLD ONTARIO. ers a very large extent of mineral bear-The old Ontario with its proud record ing country, and is exceedingly rich in surface indications of gold, sliver, lead of over \$14,000,000 in dividends, and which was for so many years the mainand copper stay of the town, is still doing business | For many years, however, this dis-



IN THE GREAT SILVER KING MINE.

The figures of United States Senator Thomas Kearns and his partner, Hon. David Keith, will be readily recognized in this cut. They were on one of the lower levels of the famous mine, on an inspection tour, candle in hand, when the photographer snapped his camera on them. Considering the difficulties under which this kind of photographic work is done, the picture is a decidedly good one.

at the old stand and bids fair to con- | trict has been almost entirely neglected | ground in carly days and Mr. Daly and tinue its large shipments for an indefinite period. 3 shaft has attained a depth of 1.700 feet and at that level the ore is freely predicted by surveyors, ex-bodies are still magniment, while every perts and practical miners, that the house fully equipped with engines, boll-

by mining men, but during the present year interest in that section has awak-ened stronger than ever before and it another dividend payer.

It is given out that this company

has not less than \$150,000 to spend in

TIM MALIA PROPERTY.

The present owners are trying to open

near future. The Clarissa group lies south and

ing the winter.

Flat country.

operations during the present month.

THE DALY-JUDGE.

A short distance west of the J. I. C.

large shaft is being sunk on the Daly-

400 feet twenty years ago.

Little Bell and the Quincy.

a low grade ore carrying principally fron and copper. Two men are now employed in driving the tunnel for the This group is considered of great value lying as it does directly south of the purpose of cutting the vein exposed in the shaft. A deal is now on for the sale of the capital stock in the treasury amounting to more than one-half the entire stock, and as soon as con-summated a tunnel will be started from idge group under the management of Dutch canyon which will tap the vein at a depth of at least 800 feet, where it John J. Daly, who in years gone by has develored two of the great mines of Park City, the Daly and the Daly-West. is confidently expected shipping ore will be found.

THE STEAMBOAT.

The place selected by Mr. Daly to de-velop his third great mine is at the old Jones-Bonanza sheft which was sunk Southwest of the Southern Ther and near the head of Snake Creek is lo-cated the Steamboat group of twenty-two claims, patented and unpatented: Much good are was taken from this this group is owned by the Steamboat Mining company, a corporation controlled by Messrs. Rice, Farrell, Riley and others, who are driving a long tun nel for the purpose of cutting a vein which outcrops on the surface of their ground.

The property is equipped with board-ing house, blacksmith shop, including an air compressor run by water power. Air drills are used in the tunnel, now in nearly twelve hundred feet, having been driven six hundred feet during the present season. Owing to the great snowfall at this point work is suspend-ed during the winter months, and was discontinued about a month since for this season.

Since that time, however, the company has shipped a large amount of timber and lumber to the mine so as to be in readiness to resume work at the earliest day possible next spring.

From surveys made it is estimated that less than 266 feet will carry the face of the tunnel to the veln at a perpendicular depth of nearly 700 feet. Until this tunnel reaches the vein it

is fucile to speculate on its value or productiveness but the surface show-ing is excellent, and the men who are spending their money in the development of the property seem very confi-dent as to the result.

BLLE BIRD.

Adjoining the Boulder Basin on the west is the Blue Bird group of three claims on which W. J. Wilson and his partners have expended much time and money. A tunnel some 700 feet in length has been driven in the lime and the owners intend to continue on the same line until they reach the granite which is apparently but a short dis tance from the face of the tunnel. From small fissures and seams in the

tunnel ore has been taken which car-ried as high as 60 per cent copper with some silver and gold and the owners hope on reaching the contact of the lime and granite to find ore in paying nuantities

MAMMOTH CONSOLIDATED.

At the Mammoth Consolidated, located nearly north of the Steamboat, no work has been done this year, although the surface showing is one of the best in the whole district. A large blowout of iron stained quartz, carrying some copper, silver and gold, is here exposed on the surface, and a small fissure has yielded very high gold values. Probably the owners are awaiting de-

velopments in the Steamboat, before ey in prospecting.

further developments on the part of the Valeo.

RED PINE CANYON.

North of the Valeo, in Red Pine can-yon, we find the Glencoe, owned by Wm. Curtis. The Glencoe is a devel-oped mine, having a tunnel some 1.000 feet in length, with a great vein of silver lead ore opened up for a distance of at least 700 feet, along which seven stopes have been opened and are ready for producing ore in any quantity de-sired.

The force at present conzists of six men, who are engaged in taking out ore and piling it on the dump for shipment next spring. A small concentrator was erected on

this property a few years since, but owing to the lack of sufficient water was never a complete success.

Ore of much better quality is now being extracted and next year will find the Glencoe one of the regular shippers from the district.

PEARL J. C.

Adjoining the Glencoe is the Pearl J. group, owned by Hatch Bros., Thus, Walden and others. This property has been idle for a number of yents, but is now being operated by a small force of men. Some good ore is found and the property is considered one of the best prospects in the district.

OLD HOMESTAKE.

North of the Glencoe lies the Old Homestake property, which has been idle for twenty 3 sars, until the present season, but is new being regularly and systematically developed by menus of a shaft now at a depth of 150 feet.

From the shaft at that depth drifts are being run on the vein which shows a strong mineralization in from with small values in silver and gold.

The property has a good whim for hoisting and is equipped with boarding house, blacksmith shop, and other buildings.

HAWKEYE-M'HENRY.

The Hawkeye-McHenry is a new cor-poration, which has taken hold of the old Hawkeye, the McHenry and other claims, which have been do stied for years, and is proceeding with their ex-ploration in a manner which gives ev-ery promise of success.

The shaft on the Hawkeye has been cleaned out and retimbered to the three hundred foot level, at which point a drift is being run.

The old McHenry tunnel is being ro-opened and connection will be made with the Wilson & Barrett shaft for the securing ventilation purpose 10 throughout the mine.

throughout the mine. The mine is fully equipped with steam hoist, good buildings and everything necessary to successful operation. Some ore of excellent quality has al-ready been encountered and the outlook ready been encountered and the outlook

for this old property is considered estremely flattering.

HOYT'S WASATCH.

One of the oldest groups in the dis-trict is Hoyt's Wasatch group, con-sisting of seven claims, some of whose patent numbers are as low as fifty-one. Like all the other old locations in this section, the Wasatch has been neglect-ed for many years, but is now being ex-ploited by the Park-Wasatch Mining Co. incomparing, which has a lense and Co., incorporated, which has a lease and bond for three years upon the entire



THE SILVER KING.

Little did the locators of the Silver King mining claim foresee that the name would become famous throughout the mining world, and still less did Wilmans and Drake, when they stumbled over a boulder of galena on the old Tenderfoot claim, anticipate that their discovery was to grow into the greatest silver-lead mine in the country; but such has been the result and Woodside canyon, which was deserted for so many years, has now the very finest plant in the camp and perhaps in the state.

The Silver King mine is equipped with a 500 horse-power direct acting holst, an air compressor of 250 horse-power double cyclinder, 16x42 inches, capable of supplying some 15 air drills, a Green No. 6 blower for circulating air through the workings of the mine, a fine machine shop with lathes, planer, pipe and bolt cutters, and every necessary its kind; the appliance by which the appliance for the manufacture or re- second class ore of this mine is hanpair of broken machinery.

The shaft is now at a depth of 1,300 feet, and the major part of the dead work done in the mine during the past year has been on the twelfth and thirteenth levels. On the 1,200 foot level the ore body has already been reached, but the 1,300-foot drift has not yet been driven far enough to reach the desired

In the Alliance tunnel, which is now a part of the Silver King territory, a force of twenty men is steadily employed in prospecting, and cutting a station for a shaft which will be sunk from the tunnel level, the initial point being over one mile from the mouth of the tunnel in Empire canyon.

Among the most important perma-nent improvements made by the Silver King during the year are the aerial tramway, a sampler and a large addi-

tion to the concentrator. The tramway takes all ore, both crude and concentrates, from the sampler and compound Corliss engine. In the mill



View of Silver King tramway and bins at the railway in Park City.

The machinery of the sampler is run by acompound high pressure engine of 125 horse-power, with boilers whose furnaces are fed by automatic strokers, and fitted with forced draught appli-

By an ingenious electrical device the engine can be stopped from any floor of the sampler by simply pressing a button, the ultimate effect of which is to instantly close the throttle and ring up the number of the floor on an an-nunciator, thus informing the engineer as to the exact location of the trouble. The engine room is a model of neatness and convenience and the presence of a large number of house plants, which thrive wonderfully in the equable tem-perature makes the room appear more like a parlor than like the old time engine

ngine room with its dirt and oil. The Silver King concentrator is mammoth structure and is a model of died comprises two Blake crushes, two

sets of rolls for ore, two sets of rolls for tailings. four Huntington mills. eighteen double compartment pigs, five Frue vanners and six Wilfley tables, nine settlers for slimes, and two filter presses: a new addition to the mill just erected will contain nine new tabes, two ne willter presses, a rotary drier, for extracting the moisture from the concentrates, with a capacity of twentyfive tons per hour and an Ingersoll-Sargent air compressor, 14x18 inch ylinder for furnishing compressed air

to the filter presses. About 125 tons of second class ore is run through the mill at present, which amount will be considerably increased en the new addition is completed. The motive power for the mill is sup-iled by two sets of boilers, which in the near future will be supplied by aunatic strokers with forced draught.

level above has still great stopes which will last for years. Over two hundred men are employed at this property, and this force is more likely to be increased than' diminished. The Ontario is still a great mine and

has dozens of cialms as yet unde-veloped. While the Ontaric formerly veloped. milled the greater part of its product here, now everything is shipped to the smelters and the old mill which produced so many millions in silver has been idle for several years. All ore is now brought through the old drain tunnel which taps shaft No.

3 at a depth of 600 feet, and delivered directly to the cars on the spur of the Union Pacific. AT THE DALY.

At the Daly but little has been done for the past year. Some ore has been taken out by lessees, but the old time activity at this mine is a thing of the past. At present, however, the com-pany is driving a tunnel southerly in the hope of striking the Quincy vein in the Daly ground which extends to the east of the Quincy The Daly paid over \$3,000,000 in divi-

dends from ore taken out above the 1,000 foot level, and doubtless will again come to the front when the shaft is sunk to the level of the Ontario drain tunnel which taps the Daly at a depta of over 1,700 feet. THE ANCHOR.

At the Anchor the usual amount of work has continued throughout the year with some additional exploration of the seventh, twelfth and fourteenth The mine is in excellent condition and

producing 100 tons of milling ore dally which is concentrated at the new mill built by the company. The mill, which has a capacity of about 200 tons per twenty-four hours, is a modern, well built, and up-to-date and a hundred and fifty horse-power concentrator, and is credited with doing

about the best work of any mill in the state One hundred and forty men are em-ployed at the mine and mill, and while no dividends are expected in the near uture the property is on a paying

The Anchor company have almost an empire of ground, extending practically unbroken from the Daly-West southvest to the Prince of Wales in Little Cottonwood, a distance of about three utles, and will undoubtedly be produc-

ig ore when the present generation as passed into forgetfulness. All ore rom the Anchor is brought through ne tunnel and dumped directly into ne ore bins at the mill, thus saving iy and all hunding after being loaded n the mine cars. PARK CITY TONNAGE.

The following is the toninge of Park City ore shipments as weighed out by the ratiroads for the year 1901 up to and ncluding December 7:

Silver King 65.810.450 Daly-West 64,513.000 118rlo 41.823.000 Daly ... 1,928,000 Darnes Bros., Con 262,000 lark, Concentration and the

Total for 1901 251,152,130 or over 125.000 tons of 2,000 pounds. This does not include the shipments of Mayne & Leonard from their zinc plant for the amount shipped by the Valeo. so it is a conservative estimate to say that Park City mines will during 1901 send to market at least 135,000 tons of ore, an amount which will be largely increased in 1962.

(The above estimate of 20,000,000 pounds for the days remaining in Dember is considered rather low as the mines are increasing their tonnage to ake advantage of the present price of

next year or two will uncover some of the greatest bonanzas, this camp has. accommodation of ever seen.

The reasons assigned for these propliecles are mainly that the same con-tact of line and quartzite which is now yielding such tremendous quantities of silver-lead ores in Uintah mining dis-trict, continues southerly clear through the Snake Creek country, that the sur-face showing is better, more ore and of higher grade showing than on the north side of the ridge, and finally that

well defined copper belt passes through the district from east to west. Many years ago the Southern Tier group of claims owned by Hayt Bros.

was the scene of considerable activity and many thousands of dollars worth of high grade ore were shipped from small fissues in the quartzile, but for the past fifteen years but little work reason, however, work was discontinued and the shaft allowed to cave. has been done on these claims and the property is now idle, and would be an excellent opening for a company havthe vein by means of a tunnel in which they work during the summer season ing sufficient means to develop the This property appears to be directly on the mineral belt and only needs capiground at depth. tal to develop into a paying mine.

ST. LOUIS AND VASSAR.

Adjoining the Southern Tier on the northeast are the St. Louis and Vassar daims now under lease and bond to Messrs. Hair, Coleman and others and work will be prosecuted thereon through the winter, the lesses have at present a most flattering showing in a new tunnel just started, having about eight inches of a high grade silver-lead ore which they are sacking as fast as taken out.

Just to the east of the St. Louis lies the Wolverine group, incorporated, which is being systematically developed by means of two tunnels, on which work will continue through the winter.

THE WOLVERINE.

The Wolverine gives every evidence of developing into a large producer when the lower tunnel shall have reached the vein now shown in the upper tunnel. This vein, so far as exposed shows from twelve to fourteen feet of low grade ore, and the management confidently expects the lower tunnel. which will tap the vein some three hundred feet deeper, to develop shipping ore in large quantities.

BOULDER BASIN GROUP.

Adjoining the Wolverine on the porth is the Boulder Basin group of eighteen claims, a three-fourths interest of which was sold this fall to C. E. Allen and others, This great group is supposed to cover the main contact for a mile in length

joining the St. Louis on the southwest and the Bonanza Consolidated on the northeast. All the claims are surveyed for patent and will be patented in the early spring.

Development is progressing through a shaft now one hundred fect in depth on which a contract has been let for inking an additional hundred feet during the winter.

The property is equipped with an ex-scient whim, whim house, shaft house, placksmith-shop and boarding house. Four men are employed at present but it is expected this force will be in-

eased early in the epring. The management proposes to keep the shaft gring until the contact is reached, probably ut a depth of fee to help feet. the shaft is new in hard lime, all the eams of which show mineralization, rincipally copper. everything oints to a big mine when the contact is reached.

BONANZA CONSOLIDATED.

Northeast of the Boulder Basin is the incorporated. Bonauza consolidated. under the management of W. H. Dodge and others. This is also a large group of claims and is surveyed for patent. evelopment is going on by means of a tunnel being driven under Lone bill. It is reported that a strong vein car-

tying good values has already been en-countered in the tunnel and work will prosecuted all winter with from eight to twelve miners. J. I. C. GROUP.

Many other groups of claims are lo-cated in Snake Creek district but the ers and other appliances, also a large and substantial noarding house for the amount of work vet done on them is the men about so small that descriptions of them must twenty of whom will be employed durbe postponed until some future time.

Blue Ledge District.

prospecting if necessary, and the fact Blue Ledge district comprises that portion of the mineral zone lying east that they have started work on so extensive a scale has greatly stimulated growing interest in the Bonanza of the range which divides Summit and Wasatch counties.

> But little beside assessment work has been done in the district for a number of years, except at the Valeo.

Between the Steamboat and the Southern Tier is a group of four claims owned by Tim Malia and partners, on During the past season, however, many old properties have been started up and several new companies organwhich in the old days a shaft was sunk ized for the purpose of developing the unexplored ground of this most promsome so feet and which developed a small veln of excellent ore; for some ising district.

AT THE VALEO.

At the Valeo work has been prosecuted during the year by John Royle, un-der a lease, and a great amount, of low grade copper ore has been shipped, the exact amount of which is at present unobtainable, but will probably exceed

SUPERIOR AND CLARISSA. 500 tons. This property is well equipped with East of the Boulder Basin and lying on the divide between Snake Creek and hoist, air compressor, blacksmith shop, boarding house and all the necessary equipments for successful operation. Blue Ledge districts are the Superior and Clarissa groups both on the cop-

A matting furnace was erected on the The Superior is developed by a tun-nel some 1,300 feet in length and is now property a couple of years ago, but af-ter a thorough trial it was found that under lease and bond to an incorporatmore money could be made by shipping the crude ore directly to the smelters in Salt Lake Valley and that policy has ed company which will at once pro-need to open up the vein known to traverse the group from east to west. been pursued during the past season. About twenty-five men are employed A great porphyry dike crosses this-group parallel to the vein and it seems at the mine and twelve to fourteen teams have been steadily engaged in hauling the ore to the railroad at to be the consensus of opinion among mining men that the work has been done on the wrong side of the dike, a Heber. matter which will be determined in the

Adjoining the Valeo on the east and south are the East Valeo, the Ramshorn, and the West Valeo groups of claims, all of which show some ore of east of the Superior and consists of eight claims, part of which have been surveyed for patent. Most of the work ever, the owners apparently awaiting wood. on this group has been done on a tun-

group. Some 2,000 feet of tunnel was driven on this property in the old days and on this property inche one sidpped. considerable high grade ore shipped, considerable high grade ore supped, but the owners were unable to find the ore in bodies sufficiently large to make the proposition a paying one. Present work is being done in a drift on a velu which was cut by the tunnel in years gone by, but never before followed.

Latest reports show bunches of ore in the face of the drift and that the vein looks strong with indications of an ore

body within a short distance. Various other groups of claims there are, which are worthy of extended notice, but space forbids more than a passing reference. Among them are the St. Louis Ontario and the East Ontario. both incorporated and each hoping to strike the easterly extension of the great Ontario. Both properties are working small forces of men and will continue development work through

the winter season. From present appearances several new producers will be opened in clue Ledge within the next year.

Park City Notes.

"The population of Park City and the mines of Uintab district exceeds 5,000 at present time.

The district is well supplied with public schools, having three large school buildings in the city and one in Ontarlo canyon besides the Catholic school of St. Mary.

The several religious denominations are well represented and church edi-fices have been erected by the Catholics, Episcopalians, Methodists, Latter-day Saints and Congregationalists.

The city has a good water system with excellent pressure for fire purposes, a volunteer fire department of about 60 men, besides a paid chief, who is on duty all the time, plenty of hose, a large chemical engine and numerous hand chemicals. Insurance rates are



