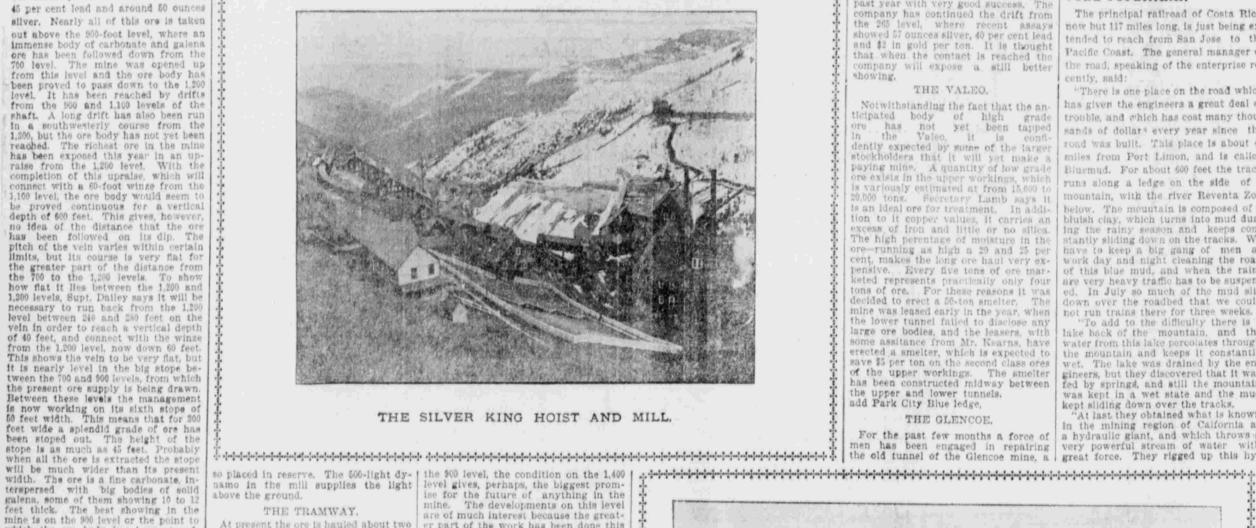
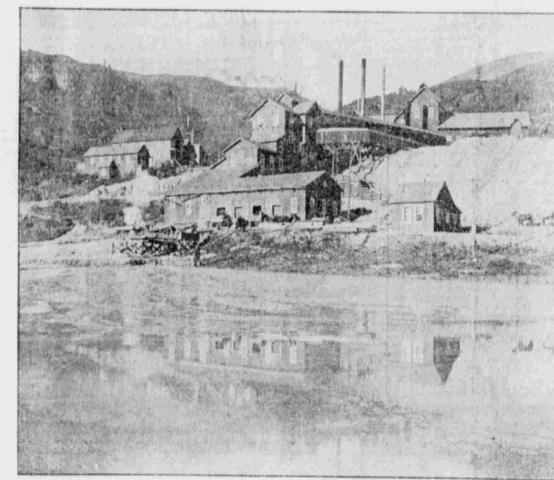
DESERET EVENING NEWS: SATURDAY, DECEMBER 15, 1900.





At present the ore is hauled about two to the railroad by wagon. This nethod will be replaced, however, early n the year by the aerial tramway which will convey the ore from the new sampling mill in course_of conwhich has a capacity of 1,600 tons. The towers of the tramway are made of steel, the highest one being \$5 feet. hev are set on substantial rock foun-

ise for the future of anything in the mine. The developments on this level are of much interest because the great-er part of the work has been done this year. After running 725 feet in a westerly direction the vein was inter-cepted. At this point and east of the intersection a very good drade of milling ore is now being stoped. The stope is now about fifty feet above the 1,400 level. In passing it might be said that the best ore bodies in the mine lie west of the crossout from the shaft, or in the direction of the Anchor lines. Some good bodies of silver ore lie east the point where the crosscut from the shaft intersects the vein, but the mill is not prepared to handle that class of ore at present, consequently the great-est attention is being given to the west end. For a distance of 1,600 feet a drift has been run west on the vein from the crosscut on the lowest level, that distance four chutes of ore have been cut through. The first three are not very large, but it is believed that they will develop into large proportions with depth. The last chute has now been cut through a distance of 350 feet. Nothng is known as to the width of the ore done. It is believed, however, that it will open up big. The ore is of very good grade, though most of it may be called first class milling ore. Connec-tion was recently made with a winze rom the 200 level, and the drift is beng pushed in ore towards the Anchor nes which are between 500 and 600 feet distant. A winze has been started from the 1.400 level near the crosscut. also the intention to sink on the big ore chute west on the 140. All of the shipping ore extracted is raised or lowered to the 1,200 level as required. It is thence tram-med to the big shed at the mouth of the tunnel 24 miles away. This shed is about 150 feet long and the ore is drop-This shed is ped from the mine cars to a floor 4 feet lower. This floor is about 15 feet wide and is on a level with the floors the railroad cars which are run into the building close to the ore floor. This prevents storms interfering with the bading of ore and makes it also quite The milling ore is all holsted to the surface and goes to the mill which is similar to the Silver King, except in its treatment of slimes. It consists of a crusher, two sets of rolls, two Huntington mills and fourteen Wilfley tables. good extraction is made and the concentrates uniformly assay about 30 pe cent lead, 45 to 50 ounces silver, \$1.0 cent lead, 45 to 50 ounces siver, site in gold with $2V_2$ to 3 per cent copper. All of the Daly West ores contain zinc. The shipping ore carries about 20 per cent which is the penalty limit. The mill ore carries from 16 to 17 per cent Of this amount two tons of concentrates daily are stored which carry 35 per cent zine with 40 to 45 ounces silver. By thus extracting some of the zinc and shipping equal lots of concentrates and crude ore the penalty is avoided. The future of the Daly West appears very roseate. After being opened by John McSorley under Mr. J. J. Daly's direction it is fast developing into one of the biggest bonanzas in the West under Superintendent John A. Kirby's management. Its reserves are now very large and in the hands of the present skillful and careful management it is not a very uncertain guess to say that company will increase its dividend the to 30 cents per share next year.



"There is one place on the road which The State has given the engineers a great deal of trouble, and which has cost many thou-Bank of Utah, sands of dollars every year since the road was built. This place is about 45 SALT LAKE CITY. miles from Port Limon, and is called HEBER J. GRANT. President WM. B. PRESTON. Vice-President HEBER M. WELLA. Cashis CHAS. S. BURTON. Assistant Cashis Bluemud. For about 600 feet the track runs along a ledge on the side of a mountain, with the river Reventa Zon

DIRECTORS Heber J. Grant, Joseph F. Smith, Chas. S. Burton, Wm. B. Preston, flober M. Walls Expron Gross P. T. Farnsword Isaac Barion Ym. B. Preston, Isaac Barton, Commercial Banking in all its Brauchs, ACCOUNTS SOLICITED, Special attention given to county train

NATIONAL BANK OF THE REPUBLIC

Faruk Knox, Prest, Geo, A. Lowa, V. Prest, Ed. W. Duncan, Cashier, CAPITAL PAID IN - - - E00300
Banking in all its branches transcist Exchange drawn on the principal cities of Europe, Interest paid on time deposits.

was kept in a wet state and the mud kept sliding down over the tracks. "At last they obtained what is known in the mining region of Calfornia as

ed. In July so much of the mud slid down over the roadbed that we could not run trains there for three weeks.

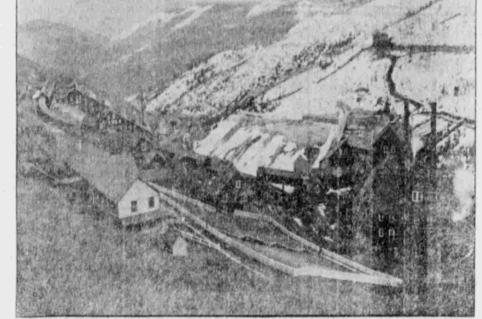
"To add to the difficulty there is a lake back of the mountain, and the

THE DESERET SAVINGS BANK, DIRECTORS. Riter, President. Moses Thatcher, Vice President, Elias A. Smith, Casher,

James Sharp, John R. Darnes, John G Cutler, David Eccles, A. W. Carlson George Romney, John R. Winder, D. B Perry, E. R. Eldredge, W. F. James, Four per cent interest paid on saving

COMMERCIAL NATIONAL BANK CAPITAL PAID IN. \$200,000

General Banking in all its Branches Directors-Dr. Theodore Meyer, John J. Daly, O J. Ealts bury, Moylan d. Sug Thomas Marshall, W. P. Noble, George M. Downey, John Doanellan, A. F. Holden

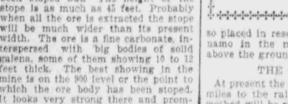


THE SILVER KING HOIST AND MILL.

add Park City Blue ledge, THE GLENCOE.

For the past few months a force of men has been engaged in repairing the old funnel of the Glencoe mine, a great force. They rigged up this hy-

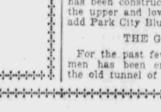
water from this lake percolates through the mountain and keeps it constantly wet. The lake was drained by the en-gineers, but they discovered that it was fed by springs, and still the mountain



width. The ore is a fine carbonate, in-terepersed with big bodies of solid galena, some of them showing 10 to 12 feet thick. The best showing in the mine is on the 900 level or the point to which the ore body has been stoped. It looks very strong there and prom-ises great things for the lower levels. While no crosscutting or stoping has been done below the 900, some idea may be had of the size of the ore deposits when it is known that on the 1.000 level when it is known that on the 1,000 level a drift has been run in ore from 600 to

42

800 feet before the hanging wall was found. But great as is the impression given by an inspection of the above drift, it becomes much greater when it is known that on the 1,100 level a sim-ilar drift penetrates the ore almost for 1,100 feet before cutting the hanging wall. In only one place does a body of waste intervene place does a body or waste interven-and that, Supt. Dalley says, is comparatively small. While the main ore chute with its Himestone capping and quartilite foot wall goes on down to the depths from the 700, a fork in the ore occurs at the 900 and a force of miners is now en-gaged in stoping the ore which has turned and is running back towards the 700 level. The showing on the 1,200 level is probably the richest ore exposed in the whole camp. It assays as high as 600 copper, 25 to 50 per cent lead and as high as \$30 in gold per ton. By the carload the asmays are lower of course, but even then some of the stuff has been proved to be worth close to \$150 per ton. Considerable attention is being given to the southwest drift on the 1,000 level, which is now about 3,000 feet from the shaft. It is the intention of the man-agement to push the drift about 1,200 feet further to connect with shaft No 2, on which work will be started in the near future. A force of men is now en gaged in pushing the Alliance tunnel to a point where a 1,500 foot crosscut is to be started towards the big drift on the 1.300 of the King. It is the intention to then sink about 700 feet and connect with the above drift which is not expected to intercept the vein sooner than four months. THE MILL. The splendid management of the Sil-ver King is nowhere better seen than in the condition and appearance of its hoisting plant and mill. Nothing with a ramshackle appearance is permitted by the management. The appearance of the buildings outside is very pleasing to the eye, but it is no less so inside where whitewash and paint are used very effectively. The floor of the hoist is painted and the footpaths around the big Bullock engines are covered with strips of rubber. Everything here as in the mill and mine shows a commend able attention to appearance. The fr side of the mill, under the direction of J. B. Fleming, is nicely whitewashed. The machinery looks well in its coat o fresh looking black paint, while th fresh elevators and woodwork connected with the machinery looks well in its coat of red. The capacity of the mill is about 225 tons per day, but it is not run at any like its full capacity owing to the fact that so much of the ore extracted is o shipping grade. In the output of from 90 to 100 tons per day about 65 tons of milling ore is extracted. This is conveyed from the shaft through a covered track 500 feet to the ore bins at the top of the mill. This bin has a capacity 2,500 tons. At the bottom of the bin twenty-two chute gates unload ore into cars which are weighed and then dumped in front of the crushers. The fine material passes to a 250-ton bin which also receives the discharge from the crushers. From this bin the ore 0-foot passes to a half-inch revolving screen. The coarse goes to the first set of rolls, after which the ore is elevated 40 feet and passed through four revolving screeps varying in size from half an an inch to one-tweifth of an inch. Here the ore is sorted and possed to Hartz figs varying in size between the figures stated above. The mill is fitted with sixteen double compariment jigs, which handle, as shown above, four different sized products. That which is too fine for the last its passes through Hunt-ington mills of which there are four then passes to four compartment hydraulic classifiers, by which on the basis of specific gravity the pulp is divided between the sand jigs and filter presses. The connect goes to the sand jig, the next finest size is caught by six Wilfley tables and the slimes, which look like muddy water ness of the vein insures a good deal of



save \$5 per ton on the second class ores of the upper workings. The smelter has been constructed midway between the upper and lower tunnels.

tons of ore. For these reasons it was decided to erect a 50-ton smelter. The

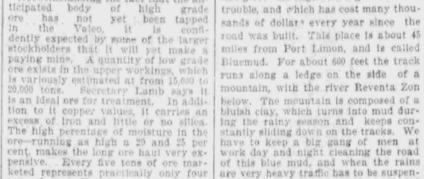
mine was leased early in the year, when the lower tunnel failed to disclose any

THE VALEO.

Notwithstanding the fact that the an-

large ore bodies, and the leasers, with

some assitance from Mr. Kearns, have erected a smelter, which is expected to



fations. Thirty two of them are now place and the remaining ones will cortly be installed. Besides taking the re to the railway, the tramway will ring back coal which will be dropped nto big bins near the mill and thence onveyed by cars to the mine and mill.

Everything about the tramway and ampler has been made as automatic as man can make it. A device has been arranged at the terminal by which the ore will be evenly distributed over the bottom of the cars. The sampler is the result of Mr. Fleming's plans in onnection with Manager Kearns and Secretary Lamb. It is fitted with four receiving bins of 250 tons each. Automatle feeders connect with the bins by which the ore passes to a 24-inch Rob which the ore passes to a 24-inch Kob-bins belt conveyor which will dis-charge into a large Commett crusher. After being crushed the ore will be raised to the top of the building where the first sample-29 per cent of the entire lot-will be taken. The rejec-tions will go to the shipping hin and the sample will use the first set of the the sample will pass to the first set of rolls, after which another 20 per cent sample will be taken the rejections go ing to the shipping bin and the sample going to the second set of rolls. This is repeated four times when the last 20 per cent sample goes to the sample rinder from which a 25-pound sample will be taken to the assay office. One good feature of the sampler is that the folls are all on the same floor. An ingenious device also makes it possible to transfer the rejections to either of the shipping bins.

DALY-WEST.

No one who has not visited the Daly-West can appreciate the amount of work done there or the quantity of ore that is now in sight, and no one, it safe to say, who has not made a trip to the mine in the worst storm seen in the Park in years, can thoroughly ap-preclate the facilities for ore transportation through the great Ontario-Daly tunnel, which connects with level at one of the Daly-West haft about two and one-fourth miles rom its entrance. It makes a road for he transportation of the Daly-West es that storms and snow drifts canof interfere with. It may take a man hours to ride horseback from Park City to the mine-a distance of two and a half miles-or it may take seven hours to get a sleigh to the hoist from town, as it did in the recent storm but the extraction and marketing of Daly-West ores goes on serenely.

As is widely known, the mine is opened up by a shaft 1,400 feet deep. The ledge is also cut from the 1,200 and 900 levels of the shaft. The biggest ore odies at present determined lie on and above the 900 level, where they have cen developed on two levels above the 200. The first of these two levels is about 160 feet above the 200 level and may be said to be the 700 level of the mine. At this point occurs the largest

leposit of shipping ore in the mine. un average distance of 200 feet .bove he 900 the ore has been stoped out for about \$00 feet in length. As the vein lies very flat on and above the 900 a 0-foot stope on the vein does not mount to a great height vertically. amount to a great neight What is probably the finest showing in the 700 level, or he mine is present on the 700 level hat is called 01 level, 160 feet above te 900. A magnificent body of fine ore as been upraised in just east of the nchor lines. Near the Anchor property an upraise has been run in the ore chute about 55 feet without reaching he hanging wall. At this point the ore opears to be similar to the Silver King about the same level. For a distance about 200 feet a drift has been run ast from the Anchor lings, where the white has again been proved to be from 20 to 25 feet thick. The management has stoped on the 700 level, or 01, about

5 feet. About 40 feet above 01, or 200 feet above the 900 level, another

THE ONTARIO.

The great Ontario of Park City, with its dividend record of nearly \$16,000, 000, closes the year 1900 with little change in its condition as compared with 1899. During the first ten months of the year, or up to Oct. 31st, 19,500 tons of ore had been mined. The output for November and December will increase this amount some 4,500 tons. Of this amount about 19,500 tons of ore have been treated this year in the Marsac mill, which was fitted up in the beusing of the year for the treatment of the Ontarlo ores. The first run was made early in February, and since then the above amount has been put through. The ore contains about forty ounces in silver per ton on an average, besides a little gold.

The company has sold to the smelters about 5,700 tons of ore during the year, some of which was on hand previously. The sales of crude ore up to Sept. 30th

DALY-WEST HOIST AND MILL.

above the 900 level, would seem to indi- | cate that there is a great deal of ore in other places than those in which the company has worked up to the Daly West lines. A very good record was made by the 60-ton mill during the year, when about 24,000 tons of ore were concentrated. The production was 5,-200,000 pounds of lead, 155,501 ounces silver, 330 ounces gold and 3,800 pounds of copper. Most of the ore treated was taken from the 1,200, 1,300 and 1,400 lev The condition of the mine is said to be quite encouraging. The director ate is composed of E. F. Holmes R. T King, D. C. McLaughlin, F. A. Nims, S. C. Tewksbury, H. E. Myers, W. V. Rice, D. D. Erwin and Henry Newell.

THE DALY.

A little work has been done at the Daly during the past few months, but thus far nothing of special interest has been developed. The present work was undertaken at the request of the minor-ity stockholders at the meeting held in the spring. In the summer Supt. R. C. Chambers considered the 1,200 level presented the best place for a start, and accordingly a force of eleven men has since been kept at work on a drift running west towards the Daly West, Some ore has been followed all the way for a distance of 300 feet. The grade is at present a little better than it has been. and Supt. Chambers considers the pros pect good that a larger body will be encountered. Some ore has been ex-tracted and the outlook at least warrants further work.

CRESCENT HILL.

No great amount of work has been done at the Crescent Hill during the year, but the recent change of ownership will, it is be-lieved, lead to important changes early The control of this property next year. was recently tied up by Mr. Henry McMillan, who says that a great deal of money will shortly be spent in opening up this old property on a large scale The property consists of over locations, but nothing has been done for so long that much expense will doubt-less be incurred priore the mine can be put in shape for further development. It is stated that early in the new year It is stated that early in the new year a pumping plant and other machinery will be installed with which to sink sev-eral hundred feet below the present level. It would not be surprising if the new owners should open up a new mine then grants are secured. when greater depths are secured. THE CALIFORNIA.

Glencoe gulch. With this work done, W. M. Johnson, who is in charge of the vork, is sinking on the vein about 1,600 eet in the tunnel. Some very good or s here being extrated from a three-foo eet in the tunnel. edge, and a little ore has been screened for jigging, which may be done when sufficient water is obtainable-probably in the spring. The prospects of the Glencoe making a mine are considered very good by mining men in the dis-

THE WASATCH.

At the Wasatch, Herman Berg is working in a tunnel which is being driven in the ledge. The tunnel is now in about 300 feet, and a 9-inch streak of galena is being followed, which is expected to shortly develop in a good ore body. Some very good ore is be-ing extracted and stored in a crosscut from the tunnel.

THE NAILDRIVER.

The Blue Ledge district has been the cene of a great deal of activity during the present season. Several very promising prospects are there seen, among which is the Naildriver, being developed under Jack Green's direc

Mr. Green has just installed a windlass 1,000 feet from the mouth of the tunnel, and expects to sink on the ore which lies in a vein some seven feet wide at this point. Some very good ore was recently opened up there, as-says of which run about 200 ounces silver, with a high percentage of lead and several dollars in gold. With greater depth there seems every indication that Mr. Green will open up a paying mine in the Nalldriver.

BUILDING STONE.

HE distinction has often been claimed for Utah by architects and builders that it has a greater variety of building stone than any other State in the Union. Whether this contention is correct or not is not important enough to justify an argument, but it is probably true. Certainly it has enough to be almost bewildering-so much so that when a man of wealth . concludes to erect a fine business block



Long Life. To discover the seceret of long life about a hundred professional and scientiffe men and women of New York City have organized what they term the Hundred-Year Club. These people believe that under present conditions life should be prolonged for a century. They do not seek to keep man alive merely as an exhibit, but to make him a useful

member of society up to the day of his death. They have not pledged themselves to live in accordance with any particular

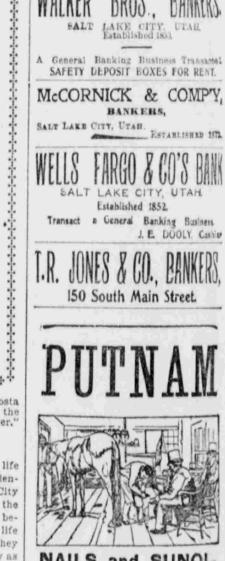
set of rules or to apply the secret of longevity to themselves if it be discovered. They do not pretend to say they will live to be centenarians, but they hope they may,

Prominent among the members of the Hundred Year Club are Mrs. Ella Wheeler Wilcox, Theodore Sutro, Dr. Carieton Simons, Dr. H. W. Wiley, Director of the United States pure food display at the Paris expenditory O.W. display at the Paris exposition; G. W. Smith, Albert Turner, Mrs. May Banks tacey, John De Witt Warner, Dr. John R. Hayes of the United States pension

bureau, Washington and Colonel E. P. Volium, U. S. A. retired. Dr. Simon, chairman of the com-mittee on statistics, has secured the names of 12 citizens of New Yory City

who are over 100. who are over 100. Incidentally the club has learned that in Ireland there are 575 centenar-ians; in Germany, with its vastly great-er population, but 75, while Servia has fully 600 over 100, 120 over 125 and three over 135. The Stream is trained to dis over 135. Dr. Simons is trying to disver whether these figures can be attributed to the difference in the diets of these people. China is the only nation, so far as known to the club, that sets a premium on old age, granting special nors to persons who are 96 or over. Albert Turner, in discussing the men-tal phase of longevity, said: "One of the elements in long life is a conviction that it is our duty to live;

that it is not right in itself, aside from other motives, for us to shuffle off this mortal coll until we have filled out a long term. It will, I think, be seen that the importance of this instinctive love of life cannot be overestimated in its The California continues to give a or palatial home he is well nigh non- | relation to health, disease and long life.



NAILS and SUNOL. New York, Nov. 12, 1890, PUTNAM NAIL CO. Dear Sirs .--

In reply to your favor 1 would state that I have used the Fulnam Nail for several years, and have advised my friends to use it only. It is hardly necessary for me to add that I prefer it to all others.

Com tily Mont farmer.

The Putnam Nall enjoys the distinction of being the only Hot-Forged and Hammer-Pointed nail made by machinery, and which imitates the old hand process.

ROBERT BONNER INSISTS ON ITS USE.

All others are COLD ROLLED and SHEARED, as an examination of their edges near the point will show, and are liable to SPLIT or SLIVER in driving, to injure and perhaps till the horse.

The above picture, from a phote representing Mr. Bonner in the act of handing his smith a Putnam nail, while superintending the shoeing of Sunol, will be sent in the form of a half tone, size, 5x8, on thick, white paper, with wide margin, on receipt of 2 cent stamp for postage, etc.

PUTNAM NAIL CO., NEPONSET, BOSTON, MASS.

For sale by Z. C. M. I., Clark, El-dredge & Co., Salt Lake Hardware Co. and George A. Lowe, Salt Lake City Utah