Yield of Ely's Copper Mines Will Startle the World.



LATEST PHOTOGRAPHIC VIEW OF ELY, THE ONCE FAMOUS SILVER AND GOLD CAMP, WHICH RECENTLY BECOME ONE OF THE FOREMOST COPPER DISTRICTS.

LY, White Pine county, Nevada, | ings of the Cumberland Ely company, like Bingham, Utah's "Old Reliable," was worked for many years

copper contents than were all of the other metals combined; and, like Bingham, it has sprung into wonderful prominence during the past few years, and for the simple reason that its copper resources represent values running up into the millions piled upon millions, the aggregate total, upon careful computation, being so stupendous as almost to stagger belief.

Robinson canyon, at the mouth of Robinson canyon, at the mouth of which is cozily nestled the pushing and enterprising town of Ely, was discov-ered in the year 1869 by Eugene Robin-son while the great camp of Hamilton was in the glory of its wonderful pro-duction; and for a period Mr. Robinson worked in the canyon in his search for each bearing remerties. In the year gold-bearing properties. In the year 1872 "Buckskin" Watson made his ad-vent into Robinson canyon and located the famous Joanna mine, about two miles west of Ely, a gold producer for

LOCATED CHAINMAN. ble," was worked for many years for gold, silver and lead before it was discovered that the ores of its mines were far more valuable for their copper contents than were all of the

eral years later this mine was worked for gold by C. D. Lane of California mining fame, who failed in his enter-prise, owing to the failure to recover the values of the ore by the cyanide. Later on the Chainman passed into the hands of the Chainman Mining com-pany, under whose management it was equipped with the largest mill ever erected in White Pine county, and the company might have been successful had it not been for the fact that copper

sulphides were encountered at a depth of only 180 feet. This was the first cop-puer discovery to be made in the camp, and this may aptly be termed as the launching of the copper boom for Ely; and which led to such extensive explorand which led to such extensive expor-ation and development work all over Robinson district and throughout an area four or five miles wide by 12 or 14 in length. The first man methods.

In the near neighborhood of the Chainman is the Robust mine, formerly the Ely Mining & Mill-ing company, but which was recently miles west of Ely, a gold producer for the treatment of whose ores he built a small stamp mill, the returns from which, according to all accounts, were more than satisfactory. Mr. Watson also located the Brooks and Pilot Knob mines (now owned by the Giroux Con-company), the Eureka and Star of the West (now owned by the Nevada Con-solidated company), and a portion of the ground now included in the hold-

Robust, is the Revenue gold mine, which has a fine hoisting plant. Development is in progress and good volumes of \$15 gold ore are blocked out, for the treatment of which, it is expected, re-ductions works are to be built in the

near future. On both sides of the canyon, until Copper Flat is reached, a mile or more to the west, there are many old producto the west, there are many old produc-ing mines, some of which can show re-celpts for payment of the bullion tax, among the number being the old Key-stone, located in 1872 or 1873, from which one shipment of ore was made, sent out by "bull team." that netted its owners \$35,000. The Keystone is a sil-ver-lead producer, and in 1882 a mill was built for the treatment of its outwas built for the treatment of its out-put. The ore occurs in blanket formaput. tion, with lime as the hanging and iron manganese as the foot woll. There is only about 20 feet of lime above the ore body, and this old mine could cer-tainly be successful operated under

The first man to attempt copper The first man to attempt copper smelting in Robinson canyon was A. D. Compton, who built a small furnace in the year 1894; but he used only wood for fuel, and so the enterprise was a

and the property was idle until after the recent sale. Across the canyon, south from the Robust, is the Revenue gold mine, The proven belt, or within the developed of the the recent sale. The surface. The copper deposits on the surface. The copper, when oxidized, is very scoluble, but the iron is not. THE NEVADA CONSOLIDATED.

proven belt, or within the developed zone; and, any place within these boun-daries, from 75 to 100 shafts have been sunk and all of these have encountered the sulphides after reaching a depth of 100 feet; some at a lesser depth. These shafts are scattered over the area mentioned, and have proved the universal mineralization of the section named to a certain extent; and the rule named, to a certain extent: and the view is that, after reaching the sulphides, the copper values increase 1 per cent for every 100 feet in depth gained; development, so far, indicating an aver-age value of three per cent copper, while in some portions of the zone values of even 6 and 7 per cent are claimed Outside of the proven belt in the lime, away from the monzonite or lime, away from the monzonile of quartz-porphyretic zone, in which the great and inexhaustible deposits of copper occur, important discoveries are constantly being made. Two miles northwest of the belt ore has been found by claim owners going as high as 16 per cent in its copper values. North of Lane City four miles, and on a line wastoel, from Hercules Gan A line westerly from Hercules Gap, copper ore has been found showing good pay values: while to the east of the "Eelt" copper ore has been found which.

copper, when oxidized, is very scoluble, but the iron is not.

There are more than six big inde-There are more than six big inde-pendent copper companies operating in the copper belt, chief among which may be mentioned the Nevada Con-solidated, which owns some of the choicest ground in the copper zone, amounting to over a thousand acres. Within the past few weeks, however, many other promotions have been launched, and some of them are cer-tain to develop into good mines. The tain to develop into good mines. The operations of the company are being conducted on a gigantic plan, and it conducted on a grantle plan, and it has proven up its holdings on an ex-tensive scale through five shafts on which there are an equal number of fine hoisting works. The Ruth and the Eureka comprise the largest work-ings at present, although at the Star Peinter a four-compartment shaft is Pointer a four-compartment shaft is being sunk, and this eventually will constitute the main working avenue for the company in the way of ore extraction. Besides these shafts, the extraction. Besides these sharts, the company has numerous smaller work-ings, all of which are being utilized in opening up and proving the compa-ny's vast holdings. Closely associated with the Nevada

Consolidated is the Cumberland and Ely, and a prominent mining man, who stands close to the management of both concerns, recently said to the writer: "Within five years the Nevada Consol-Ely, and a prominent mining man, who stands close to the management of both concerns, recently said to the writer: "Within five years the Nevada Consol-idated and the Cumberland & Ely will be smelting 10,000 tons of ore daily: the ultimate intention of the Guggen-heims being to build a 10,000-ton plant. On a large scale it is possible to make

big money can be made on ore going as much as 2.5 per cent in its copper con-tents. Some of the mines are pro-ductive of 10 and 15 per cent copper. but the great mass of ore, from 1,000 to 3,000 feet in width and several miles in length, along the copper belt, goes within a fraction of there per cent, with

It is the opinion of many mining men, and this includes some of the most prominent ones in the country, that Ely will rank among the first copper

Ely will rank among the first copper camps of the world. The big event of the year was the completion of the Nevada Northern railroad into the camp during the au-tumn, and this marked the real be-ginning of the intense mining and in-dustrial activity which the camp now enjoys.

Some have predicted that the city of Ely will have a population of 20,000 souls within a year; but it seems cer-tain that it will contain at least half the number within the period stated. COPPER ORE BLOCKED OUT.

According to the best information ob-tainable there are 40,000,000 tons of copper ore that will average 2½ per cent, which is already blocked out and ready to be shipped to the smelter as soon as the same is completed, which will prob-

small profits on 1.5 per cent copper, but | Ely, Ely Central. These different companies have merely scratened the sur-face of their properties, and no doubt in the very near future they will a cover some of the largest ore hodies The mines the world has ever k are located from three to 10 miles in a wester dy direction from Ely. The raftroad is now being completed up the canyon to the mines and should be in road is now being co operation by early sping plant is situated ring. The smelt. out eight miles from Ely City in a northwesterly di-rection. This plant will have a capacity of 10,000 tons daily, and it will uitimaterthwesterly dily be enlarged taking 25,009 tons per day. They have ample water supply to treat this amount.

RAILROAD DIRECT.

There is one important factor that has not been sufficiently considered and it is even more important to Salt Lake than to Fly, and that is the building of a railroad direct from Salt Lake through Deep Creek to Ely. The Deep Creek mines have been developed for many years and are known to contain large deposits of gold, silver and lead. In view of the venturesome spirits in Salt Lake who have been making money hand over fist for the past three or four years, both in Utah and Nevada, the wonder is that some half dozen of them have not got together and organized the company in question. To those who have investigated the situation and are somewhat familiar with conditions it seems a pity that sat Lake don't wake up to the matter herin suggested. That it would prova benefit to Salt Lake and be a payers

The Building of Ely, the Metropolis of Nevada's Greatest Copper District

ONE would dare deny to the long neglected Ely district a future of marvelous production and the consequent upbuilding there of a modern city which shall be its metropolis. That city will be one of from 30,000 to 50,000 people within the next four or five years. The building of it, is itself a problem of importance equal to those of economical and profitable ore production and reduction, and it is well that some of the largest New York stockholders in the mines, millionaires and with the broad views and experience commensurate with such an undertaking, early addressed themselves to the task. The result is the Ely Townsite company, which through the efforts of its able and genial general manager, Mr. A, G, Corbett, has acquired absolute title to about 2,500 acres of land, ideally situated at the mouth of Robinson canvon, gently sloping and commanding a splendid view up and down the Steptoe valley, of the Egan and Duck creek mountains on either side, and up Robinson canyon,

By the purchase of ranches and their rights in Steptoe creek, the townsite company has acquired supply of sure, mountain water mply sufficient for all needs of a ropulation of 75,000 people. The ownsite lands are adjacent to the levada Northern railway and midway between the mines e smelter at which the ores refuted. It is said upon bority that the railway dish a suburban train ser-Vice eween Ely city, the smelter al the mines, so that employees shall live at Ely City and be able to quickly and cheaply go to and from their work. Such a policy will result in the centralization of



NOTE-Eleventh street is 100 feet in width: all other streets and avenues 80 feet.

the population of the entire dis-A-Freight depot and sheds. trict in 'the one city. Weight is B-Passenger station, estimated to ost \$10,000. accorded to the plan by the com-C-Warehouses mon ownership and control by the mated to cost \$30,000. Guggenheim interests of the rail-

road, the smelter, the Nevada Con-

companies.

D-Ely Townsite company office, es-E-Business block, estimated to cost

solidated and Cumberland-Ely the local people exclusively. The of the project. Blocks in the busifirst three days' sale amounted to over \$300,000. This fact tells In October of this year, 250 more than volumes could, what the residence section. acres was platted by the townsite company and given the name "Ely people upon the ground and thor-City," and on the seventh of that oughly familiar from personal obmonth lots were offered for sale to servation with the situation, think and sewer systems, is being prose- 25 car-loads per week throughout

H-Smith building, estimated to cost \$75,000, being built by George E. Gunn | of the Cumberland-Ely and W. B. \$50,000, being built by W. Hinkle Smith Thompson of the Nevada Consolidated. of Philadelphia E-Graham Mercantile company I--Bank of Ely building, estimated to

building, estimated to cost \$150,000. ost \$50,000. J-Modern 100-room hotel building, G-Bowen building, estimated to cos estimated to cost \$100,000.

cuted to an early completion, excavations are now under way for ness district each contain 36 lots, buildings; General Manager Corwhile there are 26 in each block in The work of grading the streets and installing efficient waterworks

bet states that materials in addition to building stone are already ordered for delivery at the rate of

the winter, and everything bespeaks marked activity which will be lessened only by unfavorable weather conditions. The railway already has at the townsite commodious, permanent freight sheds at which all freight for the district is delivered, also a roundhouse and other buildings. Material is now being delivered on the ground for a substantial stone passenger station to cost \$10,000, and the general offices of the railway are to be | for them.

permanently established there as soon as the proper accomodations can be provided. In connection with the accom-

panying plat of the townsite there appears information as to the numerous business blocks upon which work is to be rushed. The construction of frame buildings within the business district is very wisely probibited, but they may be of brick, stone, or concrete. Building material will largely be supplied from a 400 acre tract cantaining beautiful white and salmon colored sandstone of an excellent quality for the purpose. This quarry is not far distant from the railway line, and the townsite company is now building a spur track to connect it with the railway so that production will be large and economical. All the buildings now planned will be of this material, although there will doubtless be much use made of brick and other materials, later.

The thing that impressed the "News" representative about the place is the evidence on every han that a modern city is building there which from the beginning sh have sanitary conditions, update conveniences and sight permanent structures. In th respects, it is unique, as contrasted with the usual mining camp, chaotic growth, commencing with an impure water supply, no sanita tion and clusters of board shanties and later having a pure water sup ply and sewers only when pestilence has claimed many victims, and getting substantial and suitable buildings only when disastrout conflagration has cleared the place