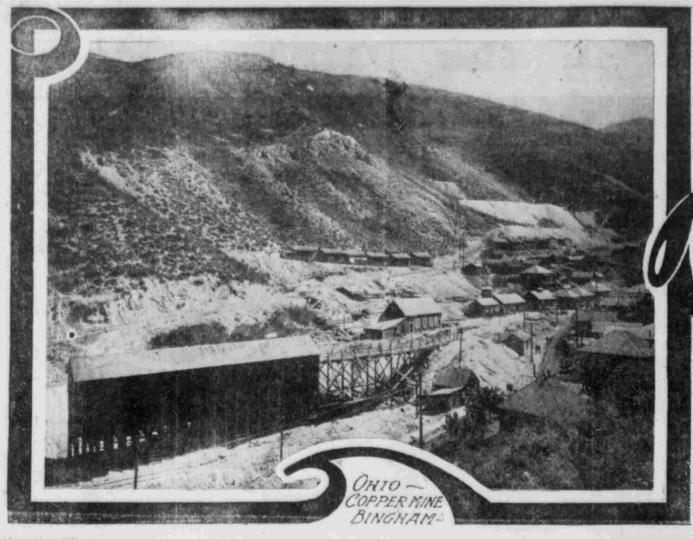
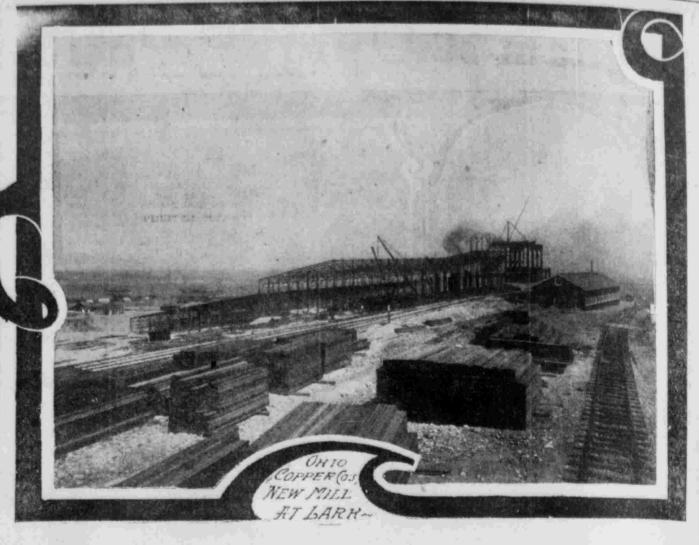
Consolidations and Improvements Made This Year.





FEW consolidations have been effected in Bingham during the current year, notably among them being the one in which ingham Standard and Bingham in mines were merged forming is for the organization of the control Standard Copper and Hillinois mines was another, its Bingham Amalgamated as the or holding company, while a rof simpler properties changed the above named were the principals made.

The Tintle Mining & Development company owner of the Yampa mine, finding that the only satisfactory solution of the consolidated and Utah Apex hies the management of the limportant mines in the camp same as a year ago at this time.

H. Channing Jr., who had been the Utah Consolidated almost from ery inception of the company. the Blugham Standard and Blugham Cenural mines were morged forming the busis for the organization of the Bingham Central-Standard Copper company. The union of the Copper Glance and Illinois mines was another, with the Bingham Amalgamated as the parent, or holding company, while a

parent, or holding company, while a number of smaller properties changed hands the above named were the principal deals made.

With the possible exception of the Utah Consolidated and Utah Apex companies the management of the more important mines in the camp is the same as a year ago at this time. Roscoe H. Channing Jr., who had been with the Utah Consolidated almost from the very inception of the company, having accepted the presidency of the Cerro de Pasco Mining company, and the Cerro de Pasco Mining company, in Peru, South America, retired in the Utah Consolidated. He was succeeded by Mr. J. B. Risque, who had been prominently identified with the mines of Michigan for several years and who is regarded as being one of the most successful mining engineers and managers in the country. Mr. Risque relieved about the middle of January.

TRANSPORTATION QUESTION.

The question of transportation, which had been agitating the minds of ore shippers for sometime past, was partially relieved by the completion of the "Sky Line" of the Rio Grande Western during the early part of the year. This had the effect of taking some of the burdens off of the Copper Belt road, the single line upon which the operators of the camp, or at least many of them, had depended for the movement of their ores. The development of the mines in the district had been so rapid that this line became taxed beyond its capacity and could no longer handle the business offered it. Even after the "Sky Line" was placed in commission, complaint was heard; The question of transportation, which but since several of the principal ship-pers have curtailed their outputs to meet the requirements of the smeiters and the road has been better equipped, patrons of the line have had their wants well attended to.

AERIAL TRAMWAY. new acrial tramways were

Two new acrisi tramways were placed in commission. The Utah Apex Mining company, on Peb. 1, began the movement of ore over its system built between the mouth of the Andy tunnel and ore bins situated is Carr Fork canyon. The installation of this ropeway removed the necessity of working ore teams over a grade not easily traveled in the whiter time. Until the Parvenue, or deep tunnel, is completed all ore will come from the mine through the Andy tunnel and transported over the tramway. Probably during the coming year a branch of the Rio Grande will be built to the ore bins; thus doing away with the necessity of ore trams entirely. An event of importance to the Utah Apex Mining company, was the completion of the Markhum Guich mill towards the latter part of March. This

ower Bingham camyon.

MARKHAM GULCH SECTION.

MARKHAM GUICH SECTION.

In the Markham Gulch section of the camp, much activity has been in evidences. The Utah Development company, one of the promotions of A. J. Orem & Co., which owns and controls the New Hed Wing and Butler Liberal mines, has carried on a vigorous campaign, resulting in the development of some extensive bodies or milling ore as well as some good bodies of high grade shipping ore, carrying values in gold, silver, lead and copper. The Montezuma Mining company, further up the canyon, has fared very well and has been at occasional shipper.

GREAT UTAH CONSOLIDATED.

GREAT UTAH CONSOLIDATED.

Utah Consolidated, has been and is now one of the big copper intnes of the world. It heads the list of Utah dividend payers and there is every reason to believe that it will continue to be a "bread getter" for many years to come, in fact, the writer has it from an official source that the mine looks better and bigger than it ever did and present year have demonstrated this beyond any question of doubt. Last year, Utah Consolidated came

mear carrying off the honors for cheap copper. The company turned out approximately 18,500,000 pounds of this metal and the cost was a little under free and the cost was a fittle inder to cents a pound and that year recorded a marked increase in cost of suped a steady increase in the cost of supplies and labor. Notwithstanding that the advance continued during the present ed a steady increase in the cost of sup-ent one and that the new manager, Mr. ent one and that the new manager, Mr. J. B. Risque, was confronted with the proposition of opening the mine at greater depth economically, the record will be a most enviable one. Naturally, it is to be expected that the operaction of a mine at greater depth would entail increased mining costs. There were some big bodies of low grade ore to handle; so all these things required engineering skill of a superior order to work out. The superior order to work out. The smelting end of the enterprise was givbuilt to the ore bins; thus doing away with the necessity of ore trams entirely. An event of importance to the Utah Apex Mining company, was the rompletion of the Markham Guich mill towards the latter part of March. This

from about 750 tons to about 1,000 tons , the company will be an active commeta day, without any lycrease in the smelting costs. The labor and fuel smelling costs. The labor and fuel problem also proved a perfous one during he greater part of the year; but notwithstanding all these handicaps, the record of the Utah Conselldated for 1907 will be one of which the management ought to feel proud

SMELTING IN FUTURE.

There appears to be a likelihood that the future smelting operations of the Utah Consolidated will be conducted in Toocie county and with that object chased "just over the mountain" from the mine in what is known as Pine canyon and not far from the town of tooele. The acquisition of this site followed the decision of Judge Mar-shall in the smelter smoke cases. It is understood that plans for the proposed plant have been drawn by the engi-neering department of the Amalgama-ted Copper company at Anaconda, and it is fair to presume that if it is finally determined that the company cannot continue the operation of its plant at Murray in the future, that prompt steps will be taken to carry out the Tooele county project and that upon the completion of the new plant

532.484 \$ 732,000 850,000 1,638,637 Above the main working tunnel however, there is probably not less than 3,000,000 tons of ore practically in sight, which could be blocked out on three

at as low a cost of many other of the world's great mines. From the beginning of operations the cost has averaged less than 5 cents per pound. This is made possible by the fact that its ores are practically self-fluxing and contain, in addition to about 3½ per cent copper, approximately \$3 in gold and silver to the ton. The precious metal values pay fully one-half of the average between \$5.50 and \$6 per ton

CONFINED TO LIME BELT.

Though the Utah Consolidated owns confined to a limestone belt about 2,000 feet long and 600 feet thick which dips. degrees. This limestone is cut by several cross fissures, and along these, and extending to a great distance on both sides of them, are immense bodies of basic fron-sulphide ores which are mined and shipped direct to the smelter

expended in these improvements and Tooele county will be materially bene-fited; whereas Salt Lake county will suffer the loss of an important indus-WHAT MINE HAS DONE. What Utah Consolidated has done in the past makes interesting reading. From the several annual reports is-sued by the company the "News" has sued by the company the "News" has been enabled to secure data showing from the time the smelter was placed in commission in 1893 up to the close of 1906, the number of tons of ore treated, pounds of copper produced, the average recovery of copper per ton ore, the average gold and silver values for ton, the total net earnings and dividend payments:

the company will be an active compet-itor of the American, United States and Utah Smelting companies for customs ores. The new smelter can be readily connected with the mine by

means of an aerial tramway about

the same length as the one now being used in Bingham canyon. A railroad, about 10 miles long, will be built to connect with the Western Pacific, San

Pedro, Los Angeles & Salt Lake and Rio Grande Western railroads near Garfield. Probably \$1.500,000 will be

167,823 7,123,197 167,713 11,840,421 *21 months' operations.

> months' notice ready for measuements on three sides. A winze was sunk 150 on three sides. A winze was sunk 150 feet below the tunnel level, two years ago, and drifts extended to prove the continuity of the ore bodies at that depth. The results were in every way satisfactory. As it was not good mining economy to block out ore at this depth several years before it would be needed at the smelter, however, it is probable that 100 000 tons more of ore probable that 1,000,000 tons more of ore could be developed in a brief period, making a total of 4,000,000 tons in sight. Urban H. Broughton of New York.
> City is president: Adolph Johnson, one
> of the greatest copper operators the
> world has ever known, first vice president; T. L. Hermann, second vice president; F. P. Addicks, secretary and treasurer; J. B. Risque, general manager. James Phillips, Jr., and O. N. King are also members of the direc-

> > THE SILVER SHIELD.

for reduction.

The company's annual statements, which are always very explicit and complete, give the amount of ore in sight as a little more than 1,000,000. The persistency with which the Silver Shield Mining company has been carrying on its campaign of development this year is only characteristic of the indomitable energy displayed at all.

SAXMAN MAKES IMPROVEMENTS.

But when General Manager Charles W. Saxman came to the Yampa last February, he set about to make im-The persistency with which the Sil-

times by its manager, Harry S. Joseph.
In summing up the work of the year recently, Mr. Joseph referred with considerable satisfaction to the raise being made from the main tunnel to the provements, both at the mine and mill ore bodies worked in the older portion ore bodies worked in the older portion of the mine and which had to be abandoned on account of the great inflow of water. The tunnel, aside from furnishing a means of drainage, is also the main avenue through which these ores will be brought to the surface in the futuge. At this writing the raise has been made about 175 feet and it will be necessary to go an equal distance to make the connection with the

has been made about 175 feet and it will be necessary to go an equal distance to make the connection with the upper levels of the property.

The Silver Shield company has marketed considerable ore this year, but right now is being handicapped on account of the congested condition at the smelter; but which the smelter managers hope to see relieved soon. The mine is developed to the extent which amply justifies the erection of a mill and the management will likely take steps in that direction before very long. Manager Joseph estimated that more than 13,000 tons of ore has been actually blocked out and ready for extraction as soon as mill facilities are had. Fortunately for the Silver Shield company, the Wall mill has been doing some custom work and through it the low grade ores of the property have been made marketable.

The mine is splendidly equipped. In fact, there are few of the smaller properties in as good shape to carry on a campaign of development of ore extraction. One of the best electric haulage systems in the camp is installed there and among the improvements made during the current year was the purchase of 20 additional ore cars, the erection of new ore bins and the placing in commission of a new air compressor plant.

The Silver Shield is a good property and it is rapidly getting in shape to be heard from in a more substantial way than ever before.

than ever before.

YAMPA MINE AND SMELTER.

The Tintic Mining & Development and Yampa Smelting companies are two of Bingham's biggest institutions. While they are operated as separate concerns, they are really one, as their interests are in common. The development company operates the Yampa mine. are in common. The development company operates the Yampa mine, while the ore taken therefrom is sent to the Yampa Smelting company, which attends to the matter of treatment. The mine, as has been stated elsewhere, is situated in the Carr Fork canyon; but the location of the smelter is in the main Bingham canyon, about a mile helow the Rio Grande freight and passenger depot.

the Tampa's works are spread out on a side hill. The engineers who had charge of the construction saw some charge of the construction saw advantages in this; but most import ant of all it was figured that the plant would be so far away from the valley farms that the company would never have to defend itself in any "smoke"

But when General Manager Charles W. Saxman came to the Yampa last

The capacity of the smelter has been raised from 450 to 750 tons daily since Mr. Saxman took hold.

While the improvements at the smelt-

Mr. Saxman took hold.

Whils the improvements at the smelter have been important, they have been no more so than those made at the mine. There an electric haulage system has been installed and a big 20-drill compressor is about to replace the 5 and 7-drill machines now in use. The building of the 12,000-foot tramway, already referred to, has effectively settled for all time the matter of ore transportation between the mine and smelter. Some of the metallurgical defects of the smelter were overcome; whereupon equipment was ordered to increase its capacity. In order to complete these changes to advantage the fires were drawn from the furnaces and rekindled again not quite a month ago. A new rousting plant has been installed; a reverberatory added; some new dust chambers and stacks erected and other contrivances provided to reduce the costs of operation. The one treated is reduced to a matte and this product is sold to the custom smelters now operating in the valley. It is possible that the Yampa company will add converters to its equipment and make its own buillion transportation between the mine and smelter.

COMPANY'S PROPERTIES.

COMPANY'S PROPERTIES.

Besides being the owner of the richest blocks tif copper-bearing ground in Hingham camp, it is also in possession of a valuable group of claims in the Tintic distrct. It comprises 180 acres near the head of Carr Fork, adjoining the Utah Consolidated on the north and the Boston Consolidated on the west. The mine now contains many miles of workings and is one of the best developed and opened properties in the camp of Bingham.

Two tunnels and a shaft constitute the main workings. The shaft has been put down 1,700 feet in the ledge from the surface and besides the two tunnels, seven different levels have been run for Besides being the owner of the richest

greater or less distances in the ore bodies, which vary in thickness from 10 feet pear the surface to 100 feet thick on the Craig or 1,700-foot tunnel level.

BIG TONNAGE IN SIGHT.

Nearly two years ago there were over Nearly two years ago there were over 3,000,000 tons of ore blocked out in this mine, Careful sampling determined this would average 3 per cent copper, \$1.50 in gold and two cances silver per ton. Since then about 200,000 tons of ore have been mined and treated in the Yampa smelter, located a couple of miles below the mines. Most of this ore has been taken out in development work and the statement comes from a reliable and trustworthy source that the reserves are now much larger than they ever were.

On the 1,780 level the ore body was on the 1,000 level the ore body was driven through on the strike of the vein for more than 800 feet. It is now prob-ably open for 1,000 feet or more. In places on this level it is 100 feet thick and the conditions are such that there is no room to doubt the ere continues to great depth and that it improves in

quality as it goes down.

The ore of this mine all carries a heavy percentage of iron and some lime is also found in the gangus viaking it a most ideal smelting proposition.

As in the case with other mines in

a successful conclusion and, as stated in the foregoing, Mr. Bamberger as-

STAFF INCREASED. The transfer of these mines to the

THE MOGREGOR LITIGATION. Another event worthy of note was the

the foregoing, Mr. Hamberger asymed control. The impression has

phide ores in the Yampa ca al streaks and masses a high grade rock, one that n 30 per cent copper, with high values in gold and si the past month a cut hos been the hanging wall on the 900 ler splendid body of ore averaging cent copper, \$3 in gold and five

Geological Survey and Its Help to Minning

IN a speech before the Tenth Mining Congress, held at Joplin, Mo., Not. 11 to 16, the director of the United States geological survey referred to the enormous growth of the mining industry in the United States within the last 28 years, which cover the life of the bureau. When the survey was organ ized the value of the mineral output of the country amounted to about IM-000,000; in 1907 it promises to excel \$2,000,000,000.

In this development the United States geological survey has played is to portant part. A leading mining jural has within a few years stated that m no other country "has economic reogy been applied to the development of industry with such beneficent results as in the United States, and no other geological survey has contributed in much to the practical application # the science of geology to mining open-

According to the plans of Director Smith, the future work of the geological survey in its relation to the mising industry includes:

First—The fuller recognition of its duty in the classification of the mineral

lands of the public domain. Second—The rapid extension of sys-tematic field study of all mineral de-posits, so that geological exploration may keep in advance of economic de-

velopment. Third—The further development of the survey as a source of authorizing and disinterested information for the benefit of the prospector or the land-

Fourth—The breadening and in-provement of the methods of olicing mineral statistics, with the purpose of securing more accurate returns and of securing more accurate returns and of

Fifth—The investigation of processes relating to the mining and later teatment of fuels, ores, and other mintal products, in so far as such investigation may be fundamental to the best stilling tion of the nation's mineral wealth.

Sixth—The preparation of reports that will better meet the needs of the min-ing industry, and the distribution of these publications more premptly and

REVIEW OF EVENTS WHICH HAPPENED IN PARK CITY

Bitter approaches, the light of the future well being of the Daly bigger dividends to stockholders.

Inocking of the wheels of promiting and the employment of more fectually blocked. It was about this funnel being of such vital importance organization of the Ontario and Daly time that Mr. J. E. Hamberger reached to the future well being of the Daly companies. After considerable parmining more brightly and its rays give

The delay experienced in restoring the Dainrio drain tunnel to be former usefulness, has nice served as a scrious mandicap, but late information consisted in the drain tunel. Outside of the from an official source that what appears to its the final score in the long, ledicon, costly and expensive task of expensing this water way is about to be quarted almost three years ago yet through all this time those in hange of the operations of the Ontario tempany have diligently worked to the paid as anytheractic company and the remeval of the last of the charteston of a goodly sum to be paid as anyther and the remeval of the last of the charteston of a goodly sum to be paid as anyther and the field west altered in the

ure of misfortunes during 1997, lower levels and therefore rendering them images subject to the pertant event in the came's history. It

IMPORTANT DEAL MADE.

Soon after the ushering in of the present year, on Jan. 2 it was, the news came from New York to Sait Lake by wire that an important mining deal had been consummated; that a controlling interest in the Ontario and Dalich interest among the laboring forces employed in the district has been the unrest among the laboring forces employed in the mines. The strikes authorized by the heads of the Miners' union at the laby West. Ontario and Daly mines, is shely West. Ontario and Daly mines, is the laboring forces employed in the mines. The strikes authorized by the heads of the Miners' union at the laby west. Ontario and Daly mines, is done to consummated that a controlling interest in the Ontario and Daly mines, in the interest in the Ontario and Daly mines, is care of these conceanies to Manager Charies I. Rood—who, by the way, had been in containing a semigroup of the consummated for over twenty years—to turn over the keys and deliver the propagates into the hands of Ernest Enuberger, who then, as new, is general manager of the Daly West mine, with which the cider liamberger made and the new smanagement in Jostario drain times to its former use-twisses, has nice served as a serious.

people had left off, when the caving in of the tunnel occurred. The plans outlined sometime previous became ef-

DALY WEST MILL AND HOISTING PLANTS.

the conclusion that the Ontario,
Daly and Daly West mines should be
consolidated or at least operated under the same management; the drain

West. Accordingly overtures were
made to J. B. Haggin and representatives of the Hearst estate, which interests had remained intact since the



Another event worthy of note was the meeting of the directors of the Silver King Mining company on Jan. 4. During the closing months of the year 1988, this company was made defendant in a 1980,000 damage suit filed in the courts by James McGregor. Magnolia-St. Louis Mining Co., and others. The plaintiffs set up the claim that the Silver King company had extracted ore from the properties owned and operated by them and were about to prove their centention when steps were taken towards a settlement out of were taken towards a settlement out of DOWN TO BUSINESS.

The only basis which McGregor and associates would consider to arrive at a settlement of the controversy was at actual sale of all their Park City holdings, and it was also with this understanding the King ghelais desired to get down to business. Mr. McGregor was asked to name his price, and after

some dickering with the Silver Kirst management, but with little change is the original proposal, it was accepted. Details were made known to the public President David Keith in a signal statement to shareholders the following statement was made:

ing statement to shareholders the following statement was made:

"At a meeting of the hoard of directors of the Silver King Mining company, held on Jan. 4. a proposition was submitted from James McGreed, agreeing to sell the Silver King company the entire holdings of the Pinyer Ridge Mining company, Magnolia St. Los Mining company, Magnolia St. Los Mining company, Magnolia St. Los Mining company, and James McGreed, adjacent to, adjoining or configure to the property of the Silver King Mining company, together with all ease to the property of the Silver King Mining company, together with all ease ing company, together with all ease ing company, together with all ease ing company, together with all ease in the property of the Silver King Mining company, together with all ease in the property of the Silver King Mining company, together with all ease in the property of the Silver King Mining company, together with all ease in the property of the Silver King Mining company, together with all ease and company and the property of the Silver King Mining company, together with all ease in the property of the Silver King Mining company, together with all ease and company and the property of the Silver King Mining company, together with all ease to the property of the Silver King Mining company, together with all ease together with a property of the Silver King Mining company, together with a property of the Silver King Mining company, together with a property of the Silver King Mining company, together with a property of the Silver King Mining company, together with a property of the Silver King Mining company, together with a property of the Silver King Mining company, together with a property of the Silver King Mining company, together with a property of the Silver King Mining company, together with a property of the Silver King Mining company, together with a property of the Silver King Mining company, together with a property of the Silver King Mining company, together with a property of the Silver King Mining compan

ed ground.

"Also, as a further consideration, withdraws his suit for 1806 bee damage against the Silver King Mining company and any and all actions pending of any nature whatsoever.

"After due consideration and making several modifications, the agreement to purchase was effected and day exeminated on Jan. 9. As soon as the internal proved, the Silver King Mining offers approved, the Silver King Mining offers' dates extunding over a term of profits.

"In order to complete the payments as soon as possible it was voted to suspend the payments of divisionds until said payments are made." HAD HEINZE IN MIND.

It was believed at the time of the making of this deal with Mr. McGregor,

(Continued on page 10.)