DESERET EVENING NEWS: SATURDAY, DECEMBER 16, 1905.

New Railroad and Development Work Helps Tooele

conditions are "looking up." That county has several good camps and not one of them is on the wane, notwithstanding that some of them were in existence when the mining industry in Utah was in its swaddling clothes. On the contrary, they continue to make steady gains as development work progresses.

Stockton, in particular, has been making rapid strides as shown by the recent developments made in the Honerine, Stockton and other mines. In Deep Creek, the building of the Western Pacific railroad towards San Francloco, has given that region such a stimulus that the coming year pron-ises to be one of great activity there. In Camp Floyd district, the Consolidat-ed Mercur Gold Mines company has been wonderfully successful in the de-algomet of new one reserves and the elopment of new ore reserves and the reanagement of hew one reserves and the management has given out the infor-mation that the toimage in sight has been more than doubled during the past 12 months. This fact is indeen important for the town of Mercur, for was not very much over a year ago at it was said of the Consolidated that it was said of the Consolidated Mercur that its palmy days were end-ed. But events of the year have cer-tainly disproven such theories. The Sacramento, also in Mercur, has been geing along in about the usual way with the production of quicksilver an important bi-product. At the Overland, at Sunshine, the

eastern bondholders have responded to another assessment and propose to determine without delay if the property shareholders, General Manager George when methods for treatmet can be developed into a paying proposi- H. Dern submitted an interesting re- crude than they are today.

VER in Tooele county, mining about \$75,000, when the cyanide process, conditions are "looking up," which came into use about that time, which came into use about that time, changed the complexion of things. Suc-cess triumphed and all Clahns as well as fuanciers of the nation are well awars of what followed. Mining re-ceived a stimulus in Utah and the gloom which came with the shutting down of the silver mines cleared away almost enthely. The success of the almost entirely. The success of the cyanide process at Mercur, indeed, marked the beginning or a new era for mining everywhere.

The Consolidated Mercur, Sacramento The Consolidated Mercur, Sacramento and Overland mines are the only prop-erties of any consequence now being operated in the Camp Floyd district. The two former are at Mercur and the latter is located at Sunshine.

Importance of Con. Mercur.

The Consolidated Mercur is the most important mine of the trio, and, by the end of the year, it will have paid out to its shareholders a total of \$1,105,000, which sum, added to the amounts paid out by the original Mercur and Golden Gate mines, brings the total up to \$3,-285,312.97. It is gratifying to note that the pres-

ent year has brought a return of pros-perity to the Consolidated Mercur company, which is evidenced by the fact that the mine is again found in the dividend column. The company is now employing a force of a little over 490 men in its mine and mill and distributes in wages in the camp each month no less than \$35,000, or a little more than \$1,000 per day.

Conditions Have Improved. At the recent annual meeting of

better conditions the management has I ing another important producer to the coming high and dry. With this felt disposed to make numerous sur-face improvements, which includes a new sampling mill and foundry. The Golden Gate shaft has been re-timber-ed; the electric holst was repaired at an Interest in Dry Canyon. expense of \$2,009; the roof of the great mill building has been recovered with corrugated iron. The mill handles from 600 to 800 tons of ore per day. The Manning mill was operated on ore from the old tailings dump during the summer, quite successfully.

During the last fiscal year the Con-solidated Mercur's Golden Gate mill produced \$725,703.86 in gold. The ore values ran \$3.95, while the extraction averaged \$2.97 to the ton. The tailings averaged 98 cents.

OPHIR DISTRICT.

N Ophir canyon, the mines have been active during the year, Considerable effective development work has been done there, while the production of the camp has been fully up to normal, although the Ophir Hill company, the of inactivity. principal producer of the district, has not sent out of its mines as much tonnage as it did during the preceeding year. This, however, does not go to indicate that the Ophir Hill company has been less active, but is accounted for from the fact that the mill has been working on the old tailings dump, which had accumulated during former years

when methods for treatment were more



 A the number of response is provide the state is a near of the first place o tion. The caving of the shaft about the middle of the sixely perton existing conditions at the end of the fiscal year—June 30, in which has in your and this work is now in progress. The property is being opened under the direction of E. W. Clark manager of the Ophir Hill mine at Ophir and that gentleman has expressed the utmost confidence that the mine, is work to make a good account with the gentleman has expressed the utmost confidence that the mine is work to make a good account is a good account of the solution of the mine is work to make a good account is a good account of the solution of the mine is work to make a good account is a good account of the solution of the mine is work to make a good account is a good account is a good account of the solution of the solution of the solution of the mine is work to make a good account is a good acc

Interest in Dry Canyon.

Increased interest is being manifest. ed in the Dry Canyon district, adjacent to Ophir. One property-the Eureka Ophir, was bonded to Charles H. Doolittle, manager of the Bingham-New Haven mines of Bingham, several months ago and that gentleman is op-ening up that ground in very good shape. The mine is responding to de-

C TOCKTON, one of the pioneer min-) ing camps of Tooele county, has made good progress during 1905, and it is on the eve of entering upon a great era of production. If its mines continue to respond to development in the future as they have during the past 12 months, the time is not far off until this old camp will rank well with Bingham, just over the summit of the Oouirrh range of mountains. While the Honerine, Black Dlamond and other mines have responded favorably to development, none have record. ed more important discoveries than the Stockton Gold Mining & Milling company, of which J. J. Trenam of Sait Lake is the manager.

Tennel Saved Camp.

Until the great Honerine drain tunnel project wa's undertaken, the future of Stockton seemed anything but bright. In the early days of the camp the mining industry prospered there: but when the rich surface deposits of lead and silver became exhausted serious problems confronted the mine owners and, to the med of limited means, the difficulties were unsurmountable. It required the introduction of outside capi-tal to work them out. Many thousands of dollars were spent

in the purchase of pumping machinery, but this means of removing the watewhich had flooded the mineral zone for ages did not prove feasable. The cost of operation was to great to make even the mining of high grade ore a profit-able proposition. It was after these trials that the efforts put forth to penetrate the mountain with a long drain tunnel chrystallzed and became a reality. Mine owners, after numer-ous conferences, concluded to join issues in the great undertaking: the strong companies bearing the bulk of

coming high and dry. With this much accomplished, a revival of activity took place and the camp begun to produce again. The Black Diamond Mining company was one of the first to be bear effited and inaugurated shipments: the builders of the new line will be dispused in view and inaugurated shipments: the building of branch lines to the principal camps. With this fact in view and knowing the trans. With this fact in view and knowing the transformer work. With this fact in view and knowing the transformer work. With this fact in view and knowing the transformer work. With this fact in view and knowing the transformer work. With this fact in view and knowing the transformer work of the new line will be the transformer work. With this fact in view and knowing the transformer work of the new line would spread throughout the base to chains are becoming more notive in our pronounced than ever before and, on the whole, the outlook for the reston has materially improved since a year. If in this age of organizations innu-

Haven mines of Bingham, severa months ago and that gentleman is one contracted in the Homerine company: a spectral provided in the working and gentleman is one engaged in "contacting the year of the apparent intering the year field of the property owners, which the outdowners of the property owners, which the operation of them the operation of them the operation of the year on some of concerned in the present state of mactivity.
STOCKTON'S PROGRESS.



is going to make a good account of itself in 1906.

MERCUR'S GOLDEN WEALTH.

ORE than \$12,000,000 worth of gold has been taken from the mountains of the Camp Floyd district and the greater portion of this vast aggregation of wealth has come from the Consolidated Mercur Gold mines.

The foregoing does not include, however, the many thousands of dollars extracted from the rich silver-lead deposits that were worked so profitably away back in the 60's, but represents the output of the district since the introduction of the cyanide process for the treatment of gold ores in the 90s.

Was Once a Silver Camp.

In 1870 and 1871, the gulch where the town of Mercur now stands, was a busy " silver mining camp. It was then known as Lewiston and retained its identity until about the year 1880, when the profitable mining of ores in that district ceased.

The Carrie Steel and the Sparrowhawk, were probably the best known inhing claims located in the district in those times—in the 70s. Silver was the principal production, but gold ledges were not entirely unknown then. Prospectors frequently found outcrops of gold ore which assayed well, but would not show a color in the pair. This con-ditions was looked upon with distrust and suspicton. Miners could not understand how the assayer could get re-turns, when no colors were visible. Bur mineralogy was not so well understood then as it is now.

Discovery of Cinnebar.

The presence of cinnebar was known when Lewiston was a thriving mining

A report for the year 1871 states that "there is also a vein affording cinnabar of low percentage." The government report on mineral resources makes ful-ler mention of cinnabar distributions. ler mention of cinnabar discoveries in the district, and states that a feat made on a 100-pound lot of the ore gave an average of 4 per cent guick-eliver. This was evidently considered too low grade for profitable handling, or else the statement was incorrect. At any rate, quicksilver mining was not attempted. A few years later, however, the deposit again attracted attention, and on April 30, 1879, Arie Pinedo lo-cated a claim on this chmabar vein, naming it "Mercur," after the mercury in the ore. This claim he parented, and it subsequently became the nucleus of the gold camp, giving its name to the Merour mine, as well as to the new camp, which in 1890, sprang up on the site of the defunct Lewiston.

So persistent were the stories of the existence of big gold ledges in the Camp Floyd district that a syndicate of Nebraskans—among who were John Dern, John Heimerich and Ed H. Airis-decided to try their luck at min-ing. They were commonly referred to as the "Nebraska farmers," and their operations were looked upon generally in the nature of a joke. No one in Salt Lake had any idea they would suc-ceed in the venture; that it would be another case of the "tenderfoot drop-ping his wad."

When it Looked Gloomy.

It certainly looked as if failure had overtaken them when it was demon-trated, in 1890, that the amalgamation mill built in the camp would not save the values which the ore contained. The Nebraskans had already spent

prospecting in virgin territory during the year, and have opened up much new ore; but a large share of our work has been in going back into the old stopes, driving through caved ground with tun-tuel sets preparatory to mining by the caving system. To persons inexperi-enced in this kind of work, this often seems dangerous; but as a matter of

enced in this kind of work, this often seems dangerous; but, as a matter of fact, when done by men accustomed to it, it is as safe as running unlimbered tunnels in new ground. Hence, there has been apprehension on the score of safety, the principal think to look out for being to keep a solid bottom for nil drifts and not to drive over any onen cases which might let the floor

all drifts and not to drive over any open caves, which might let the floor of a drift through. We have been very successful in this respect, the single exception being the disobedience to or-ders on the part of contractors who were breaking ore by the car. But, of course, this sort of work takes great-quantities of timbers, which run up the cost of the ore while we are block-ing out. Furthermore the drifts are not made very large, so they do not produce much formage as they pro-gress. Again, while in some stopes the cave drifts are all in ore just as if they cave drifts are all in ore just as if they were in a virgin ore body, in other places the material contains a large quantity of waste rock, the waste of-ten exceeding the ore. The ore from such places, naturally, is prefix ex-mention. Taking the foregrains had one

pensive. Taking the foregoing into con-sideration, it is not hard to understand why out mining costs increased a little during the year

Immense Ore Reserves.

hat the ore reserves in the mine at hat time were sufficient to justify the statement that the property could be operated for at least two or three years without the development of new ore bodies. In his last report he had no hestiancy in saying that the devel-opments of the year had doubled his former estimate. Since June 30, the ormer estimate. Since June 30, the ampaign of exploration has been carted forward in a most vigorous man-ter and has added many thousands of tons to the reserves.

In Virgin Territory. In what is known as raise No. 132, which is the virgin territory, the de-velopments of the past few weeks have brought about some interesting disclosures and the weekly averages of the ore opened up shows gold values of the ore opened up shows gold values of the ore opened up shows gold values of sole to the ton. This raise is in the eastern portion of the mine. The ore heady is undoubtedly a very large one, but its magnitude is yet to be deter-mined. Important developments have been made recently in the No. 14 in-cline, which penetrates the Magazine vein in the Third North level and which has been run to the surface. More rehas been run to the surface. More re-cently, the Fourth North level has been started. It, too, has opened into ore centry, the Fourier worth level has been started. It, too, has opened into ore and will be driven to the surface, when the open cut method of mining the ore will be applied. So, all in all, the condition of the big gold property has not been in as good physical condition of the indux is a good long while.

as it is today in a good long while.

With the mine continually showing

this vast region by the hordes of prospectors who flocked into the country been brought in from the Uintahs in ing of last September. he proved by development, People have

But this region will undoubtedly be heard of a "lost Spanish mine," also heard from during the coming year, as | the "Rhodes gold mine," which are still it is believed to be a country of great shrouded in mysetry. Placer gold has possibilities, with every indicaton that been found in considerable quantity logical structure of the country, in the some good mines will be found there. along the Duchesne river, which has upper part of the Tertiary strate, and

At the close of the fiscal year 1904 Manager George H. Dern estimated

In Virgin Territory.

New Improvements This Year.



quired through arrangements with the

nown depth. Four miles to the northwest is the

property operated by the Raven Mining company

On the cast side of the Green River are other vast deposits owned by the St. Louis company; some of the veins here have a breast of ten feet, others untouched, are of even greater thick-ness. The product is shipped over the Uintah rallway to Mack, Colorado, where it makes a junction with the main line of the Rio Grande Western. Glisonite, like coal, has been produced by the accumulation of vegetable mat-ter in fresh water regions. It is used extensively in the manufacture of wa-terproof paints for wood and iron work and the chesper grades of varnishes,

Elaterite a Rare Mineral.

Elaterito is a very rare mineral, but has been mined on the reservation for a number of years. The veins are not so large, or so deep as those containing glisonits and are more uncertain; the mining more expensive. The substance is harder than glisonite, but when heated becomes clastic like rubber. The presence of shells and evidences of ma-rin life indicate that its formation is t marine plants and salt water substances.

Nature has surely surprised us with the extravignness in this region, and experienced miners meet with condi-tions here not found elsewhere in the states. This was evidently an inland waters, where the unreclous upheaval the waters were let out, and rushing down the valley of the Celerado set going the processes that eventually gave us one of the wonders of the world-the Grand catiyon of the Colorado. This seem plausible, at least, to the reflective, un This seems professional mind knowing the capacity f this wonderful basm. Sand asphaltum is found in immense

deposits and is utilized at Vernai and Fort Duchesne in making sidewalks and street paving. Coal of a fair quality has been mined on the reservation for several years, also in the vicinity of Verual, and evidences of it appear in many localities. There are all springs and bitumen lakes, where cattle mire, and these springs have been taken as evidences of the existence of petroleum. but the formations and conditions are by no means conclusive on this point. Other hydro-carbons exist, and still others will be discovered, since the mineral lands are now all to be open to loca-

It was back in the seventies that the It was back in the seventher that the first discoveries and assays were made of these minerals. There was found along the old trail from Solt Lake to Sonta Fe and near Soldler's Sumult, a black mineral wax which proved to be ozokerite, and by likerating the cur-bon from it, a while parafin wax was left, which is now of great herefical utility. In the victure of Galine, on the Elo Grande Western railroad are extensive mines of this mineral.

The building of the Moffat road are extensive mines of this mineral. The building of the Moffat road from Derver to Sait Lake will do much to-wards the development of Ulntah com-ty's mineral resources. At present, ex-cepting some of the properties of the St. Louis Gilsonite company, the mining districts are without convenient means of transportation.



MAP OF THE UINTAH RESERVATION AND SURROUNDING COUNTRY.