# DESERET EVENING NEWS: SATURDAY, DECEMBER 19, 1903.



600 feet deeper than the present lowest workings and will tap the ore bodies developed in the present workings at a distance of about 5000 feet distance of about 5,000 feet. The Columbus Consolidated company has a low capitalization, a very import-ant advantage to the stockholders-be-

An average of fifty men have been employed by the company during the year, and the number will be consider-

# THE CONTINENTAL ALTA PROPERTIES.

When the properties at Alta now tire holdings of the Lavinia & Grizzly in the mines last July, 1,862 feet of tun-wined by the Continental Mines & Consolidated Mining company, the Dar-melting corporation were secured for lington Mining company, and the Regu-his organization, the foundadtion was lator Mining company. By the assoowned by the Continental Mines & Consolidated Mining company, the Dar-Smelting corporation were secured for lington Mining company, and the Reguthis organization, the foundadtion was lator Mining company. By the assolaid for another large and important clation of these properties and the inproducer. They had already contributed stallation of certain improvements the a goodly share towards the enrichment management is enabled to mine and

and lead

day

ground

HIGH GRADE COPPER ORE.

COULD INCREASE TONNAGE.

The output of the Continental Alta

nines could easily be made 100 tons per ay witout further development work,

but the policy of the company is to con-tinue active exploration with a view to the deeper development of the bonanza stopes of the mine, which has not been accomplished as yet in the opperations

of the present company, owing to caved

CONTRACT WITH AMERICAN.

Although the continental Alta mines

were not re-opened until last July they have yielded the heaviest tonnage of any mines in the camp. On September

22 last a contract was entered into with

the American Smelting & Refining com-

pany, by which the latter agreed to purchase 75,000 tons of ore. The smelt-ing company was very liberal and made

concessions in the way of treatment charges which enabled the Continental

DEVELOPMENT WORK.

of the world-a quarter of a century handle the ore at a cost of from \$2 to ago,and when Henry M. Crowther made \$5 per ton less than has been possible his examination of the mines he found in opperating the group heretofore, as the old workings filled with ore of a low three units. Besides, it is now possible grade, which were unprofitable when to have the ore smelted at much lower placed there, but which could be figures than formerly, because of the made to pay well now. There were large increased demand for ores of this class, veins exposed, too, containing ore of a Only ten miners are required to break much higher grade, and he found confifty tons per day, owing to the large ditions such that the mines could comfaces of ore exposed in the stopes and mence producing immediately. The to its soft nature. deal for the ground was closed and now SHIPPING 50 TONS DAILY. the Continental Alta mines are adding The company is now marketing ores no less than \$30,000 per month to the

mineral output of Utah, which amount will be increased several fold when cheaper transportation is afforded. ORGANIZATION OF COMPANY.

While the Continental Mines & Smelting Corporation is incorporated for \$5,000,000 there is issued on the Continental Alta mines but one-fifth of its capital stock, it being the intention of the company to operate several properties in different parts of the country and, as each property is taken over by purchase, there will be a certain amount of the capital stock issued to cover its consolidation, as an asset of the parent company. No mines are purchased that are not producers or are capable of producing at time of purchase, and the company does not bond and lease properties; but purchases them outright for cash.

The aggregate original capitalization of the company now included in Continental Alta mines is \$2,100,000, and the production of the Old Grizzly mine of the group has been no less than \$1,000 .-000 in lead and silver ores alone, as the principal product-copper-was not saleable until recently.

Consequently, the copper output has in the past been small where in the future it will perhaps be the principal metal produced.

PROPERTIES PAID FOR. In the case of the Continental Alta purchase a condition of the option was, that the greater portion of the year was given in which to pay for the properties, but the final payments were made within the first sixty days on the en-

foot, the shaft work being the most costly.

## POWER AND MILLING FACILITIES.

Earlier in the year steps were taken Earlier in the year steps were taken to provide for electric power and mill-ing facilities and an appropriation of certain waters of Little Cottonwoood creek were made, for the purposes named. The surveys have been finished and the electric power plant will prob-ably be installed early next year. This plant, when insalled, will generate a minimum of 400 horse power per day, in the form of electric energy, and will be transmitted over eight miles of wire line. The fact that the present wagon and freight haul is 34 per ton for the and freight haul is \$4 per ton for the twenty miles of transportation from mine to smelter, and that \$1.50 per ton would be amply high to figure this ex-pense with mechanical transportation in use, leaves a possible saving of \$2.50 per ton, which, itself, is a large ad-ditional profit inasmuch as the reducat the rate of 50 tons per day, and the product now being forwarded to the smelter furnaces runs in values from ditional profit (inasmuch as the reduc-tion in up-freight expense will reduce the cost of mining by \$1 per ton, thus, making a saving of \$3.60 per ton, with this camp properly equipped with transportation facilities. This margin alone, will render available, for profits, many dozen thousands of tons of ore, 21 to 30 per cent copper and from 12 to 25 ounces silver, as well as a dollar or two in gold. The least value of the ore now being moved is \$15 per ton, while the average of the second class sipments is \$18 in gold, silver, copper a great deal of which is blocked out in the mine awaiting cheaper transportathe mine awaiting cheaper transporta-tion, and it is undoubtedly a fact that fully one-half of the ore in the Con-tinental Alta ground, of which there is no less than 100,000 tons in sight, will average \$8 to the ton. It is this ore that will supply the proposed mill, as it is not of a sufficient grade to handle in the conde visio Recently there was developed high grade copper ore in three places in the mine, and a raise is now going up on lead ore carrying as much as 70 per cent in that metal and 196 ounces silin the crude state.

### AMONG LARGEST IN STATE.

The Continental Alta mines are unquestionably among the largest in the state and will enter the front ranks of most prominent producers when the present plans of complete economical equipment are carried out. The prop-erties are situated at the head of Little cottonwood canyon, and either adjoin or surround some of the former famous producers, such as the Flagstaff, Em-ma, Prince of Wales and others. The Columbus Consolidated is situated below, a short distance. The mine is equipped with a complete assay office and labratory and engineering depart-ment, with buildings all under complete fire main system. The miner's quarfire main system. The miner's quar-ters are provided with a comfortable reading room and supplied with current

reading room and supplied with current newspapers and magazines. The Continental Mines & Smelting Corporation is a New York company and has been authorized to transact business in Utah. The president of the company is Henry M. Company Alta management to market ores of as low grade as \$10 to a profit owing to excess of iron, while it was previously estimated that \$12.50 was the lowest limit on ores that would pay to handle. and has been authorized to transact business in Utah. The president of the company is Henry M. Crowther and G. C. Van Alstyne of New York W. G. is treasurer and secretary. W. G. Scott, formerly of British Columbia, is superintendent of the mine. Since the commencemment of work



19

THE EARLY HISTORY OF MINING IN UTAH. long ago a well known an unsolved mystery for nearly three the widespread existence of beds of coal | located in the same district by one Ogilyon yielding over \$1,000,000 in the next territory, which was found rich in min-1869. And at this time a number of properals, and there was found that in in-erals and there was established a gen-eral faith in the future of the indus-try, a future greatly aided by the com-pletion of the overland railway. few years. erties were undergoing development, in-biding Flagstaff, North Star, Magnet, centuries of nominal Spanish dominion. vie, and other discoveries rapidly folwestern mining journal puband iron ore, for these were prominentlowed lished a contribution from one In 1540 Coronado's party reached the ly distributed over the length of the WHEN STOCKTON STARTED. Savage, and others in Little Cotton-wood canyon, and developments in va-In December, 1863, the first mining of its writers, Mr. J. O. Denny, territory, and the controlling powers district was organized, the West Moun-tain, which included all of the Oquirrh Colorado river and turned back and Early in 1864 the town of Stockton rious districts gave a general stimulus to mining. In 1870 rich chloride of sil-ver ores were found in East canyon, in the Ophir district, which was another stimulating circumstance, and in that his subject being "The Early Utah's territory was not trodden by were ready to appreciate and encourage was started in the Rush Valley district FIRST SHIPMENT OF COPPER, History of Mining in Utah," range south of Great Salt Lake the development of these elements of in Tooele county, near the most impor-tant early discoveries, and a military the white man until 1776, when Escaittle development work was done unti In 1868 Bingham canyon afforded the The author gathered much of lante penetrated as far as Utah Lake, industrial progress. Early in the fifties 1864, when the industry began its initial boom. In that year many other claims camp was established near by, to the great promotion of prospecting. That first shipment of ore, a car of copper ore, which went to Baltimore, and at his data from government reat the head of the Jordan. There was small but unsuccessful efforts to smelt were located, some of which displayed very rich silver-lead ores and were year the first effective and successful another blank for a half century until iron ores were made, and in 1854 the summer the West Jordan Mining comthat time there ocurred a considerable smelting furnaces were erected by Woodhull Bros., a few miles from Salt pany was organized, under the laws of California, by Gen. Connor, who interexcitement over discoveries of gold enterprising American trappers pushterritorial Legislature offered a reward deemed very promising. Among them were the Empire and Galena, near the West Jordan. The Rush Valley district quartz near Sevier river, in the southed into the region, discovered Great Salt of \$1,000 for the commercial develop-Lake City, the capacity being eight tons. The Badger Lake and other smelwestern part of the territory. At that time practically the only productive mines were the Bingham canyon plac ers, and in 1869 R. W. Raymond, U. S commissioner of mineral statistics ested a number of California friends, Lake and made the region fairly well ment of a coal scam not less than 18 and a tunnel was begun on the proper productive ters soon followed. In the midst of the boom so generated, the great Ontario, which was to yield \$17,000,000 within 10 years, was opened in the Park City diswas early organized, including ty. In that year activity in prospecting became widespread, carried on by soldknown. inches thick within 40 miles of Salt western slope of the Oquirrh range, the Lake City, but nothing came of these WHITE MAN ENTERS UTAH. eastern slope remaining the iers and Gentile miners attracted by the discoveries, and the organization of statistics, Mr. Denny says: efforts. Mountain. summed up the situation as follows: ct. The public was widely interested Utah mines, and there was a great The white man came to Utah in the In 1864 a party of California miners rict. During the Civil war the force of "On the whole it may be said that, so far, Utah cannot be classed among the mining states and territorics. The companies was actively begun. on their way home from Montana, disseason of 1824-25, when a party of trapabout 700 men, under Gen, Connor, concovered placer gold in Bingham can-yon and began practically the only sucinflux of miners, prospectors and in-vestors. In 1871 there were about 20 WHEN COUNTRY BOOMED. pers from St. Louis pushed up the Missisted of portions of the Third Califorvestors. In 1871 there were about 20 small charcoal-burning smelters in the developments made are all very slight and unimportant, and no shipments of souri river and crossed over into the By 1865 the boom was at its height nia infantry and the Second cavalry. cessful placer mining in Utah, the canterritory and skill and capital were be-ing devoted to the planning and erecand many companies were organized by Great Basin. In 1825 Fort Ashley was any consequence of the precious metals have been made. The Union Pacific and many companies were organized by army officers and others, partly in the east. The boom pursued the course common to such booms. After slight development, companies proceeded to The officers and men were from a minestablished on Utah Lake and parties ing state, many had been miners, and tion of the larger and more efficient efficient UTAH'S PRODUCTION OF railroad, will, however, undoubtedly do much in the future toward the develophunting beavers spread out through when they got located at Camp Dougthe country on trapping and exploring COPPER AND LEAD las, late in 1862, near Salt Lake City, ment of the mineral interest in the ter install small smelting plants at Stock-ton, which has the honor of being the oldest mining camp in Utah. The first smelter was erected by Gen. Connor. PRODUCTION OF 1870. expeditions. ritory they very naturally exhibited a keen in-In 1902 By Counties. It was in 1863, before discoveries of The year 1870 was the first year of The year 1870 was the first year of noteworthy ore production, nearly 10,000 tons of ore being shipped by rail east and west, of which 5,300 tons came from the Emmia. The total value of the out-put, in all metals, was nearly a mil-tion dollars and in that year the Bing-ham placers yielded about \$300,000 ad-ditional. In the following year the min-eral output was estimated at \$2,800,000, in 1872 at \$2,445,000, and in 1873 at \$4, 883,700, in 1874 at \$5,280,700, and in 1875 at \$4,253,157, (Raymond.) "The failing off in 1875 was due to a The "Mormons" were by the track of EMMA LODE DISCOVERED. terest in the mineral possibilties of the the main tide of overland travel that mountains about them. Gen. Connor But the following year was to see a res from various mines in this and But the following year was to see a sudden and important development of the industry, and in that year mines began to be systematically operated, partly because of the building of the Utah Central railroad south to Salt Lake City. In 1869 the famous Emma mine was becauded and is at once becau began rushing to California and mutual was much interested, himself, in the ther districts, including that of Little advantage resulted, as the passing emmining industry, and favored prospectottonwood canyon, gave high assays, ut the slight facilities for the reduc-on of the base ores were crude and igrants bought and bartered freely, afing by the soldiers as conditions gave It had been 15 years since California fording the "Mormons" a large market opportunity. So, through 1863 there nefficient, processes were costly, trans-ortation to reduction works in the east and the gold seekers needed supplies. was quite an active prospecting cam-Lake City. In 1869 the farmous Emma mine was located and it at once began its great career, being credited with producing \$2,000,000 by 1872, in which year it was sold to an English syndicate for \$5,000,000, an operation that was soon given the reputation of a huge swindle and which was followed by the clocing of the mine. This mine in Li paign carried on by the boys in blue as While some of the "Mormons" who had as impossible, and early failure came the mining efforts of those first ears. In 1865 the "Stockton mines" gone to California turned their attenparties secured leaves of absence for the purpose. tion to gold mining, the faces of Brigd in fame and hundreds of claims in ifferent districts were held in hope and The failing off in 1875 was due to a depressed condition of the smelting business. At this time the mining industry had become firmly establish-ed on a large scale and a great amount of development had revealed an enorham Young and the Apostles were firm-SOME SPANISH HISTORY. FIRST BINGHAM DISCOVERY. ly set against their people joining the onfidence The initial discovery of moment was The difficulties encountered imposed pause, and though between 1864 and mad rush for gold and abandoning the closing of the mine. This mine, in Lit-tle Cottonwood canyon, was the first fully developed mine of the territory and its success gave a great and imme-diate stimulus to the industry. made in the summe rof 1863 by Capt. A. seemingly surer industries which they Heitz and party, who found a vein of 870 a vast amount of knowledge as to he mineral resources of the territory of development had revealed an enor-mous extent of valuable mineral derealized must be the foundation of their argentiferous galena in Bingham canenduring success. as gained, the productive period did ot fairly begin until the opening of posits, which guaranteed a permanent productive career to the industry, sub-ject to the fluctuations of prosperity yon on the east slope of the Oquirrh GEN. CONNOR'S MINING VENTURE The "Mormon" settlers early learned of that year the West Jordan mine was GEN. CONNOR'S MINING VENTURE duri 415, The market value of the lead dur-FINDING OF TINTIC. the next decade. The discoveries had ed so far northward and the region was extended to the western side of the The Tintic district was discovered in that come to mining everywhere

ports and the balance was obtained through personal observation. He speaks of the early scenes in Bingham canyon, Alta, and at Stockton, which will undoubtedly be read with interest by remaining pioneers of those camps.

There was a populous and remarkable center of industry for years before gold and silver, lead and copper were reckoned among the elements of material wealth in a vast region later found to contain minerals and one now ranking high among the mining states of the. Union.

precious and base metals in the Wasatch mountains gave the mining industry its start, and its productive career practically dates from 1870.

had electrified the world by showing evidence of its golden treasure, and several years since it had passed the record point in its productive career.

There is little pre-American history to tell, for, while the region that became Utah was part of the Spanish dominion and part of the Mexican cession of 1848, the mission-founding and mine-hunting Spaniard had never push-

Summary	Conner	Tand
by Counties.	Copper.	Lead.
1	Fine Pounds.	Fine Pouds.
Beaver	914,088	5,022,768
Juab		20,266,507
Salt Lake		3,257,179
summit		77,249,960
Pooele		3,951,325
Utah		115,400
'ustom smelte		
in addition		
the above, n		
possible to d		
tribute by co		the Mailland
ties		746,503
Total	25 954 026	110,609,441
Trant + + + + + + + + + + + + + + + + + + +	a. molonatorea	

ing the same period was \$4,500,698.

# Latest Official Figures of Utah's Production of the Precious Metals.

BOUT the middle of each year it is customary for the government assayer at Helena, Montana, to issue a report, showing the mineral production of the several states within his district, which includes Utah, Idaho and Montana. The statistics issued from his office are the most reliable of any that can be obtained at the present time and the figures complied are generally believed to represent very close to the actual output. The figures for the year 1983 will not be compiled until several months later and the official report will not be made public until next June or July. The assayer now has the means at his command to get at the production of each state by counties. In his last report the official furnished some interesting data which every mining man should preserve for future reference. It will be seen that Tooele county lead in the production of gold last year, and Summit county in the production of silver.

# TWO YEAR'S PRODUCTION OF GOLD AND SILVER IN UTAH, CLASSIFIED BY COUNTIES,

County. Fine Ounces. Value. Fine Ounces. Value. or Decrease-, Fine Ounces. Coining Value. Decrease-,   Juab 40.058.989 830.159.99 23.344.094 689.283.60 -140.876.39 2.685.734.89 3.472.465.31 2.978.394.00 3.850.852.85 +   Pinte 18,007.721 372.252.63 24.302.202 502.371.10 + 130.118.47 48.213.26 62.336.34 71.758.19 92.778.26 +   Pair Jake 27.911.565 576.983.25 34.923.135 721.925.28 + 144.942.08 7.063.944.54 914.029.30 1.048.828.26 1.366.060.78 +   Summit 27.912.92 29.92.75 21.926.28 + 144.942.08 7.063.944.54 914.029.30 1.048.828.26 1.366.060.78 +		n i de anticipa de la composición de la	Gold.					Silver.				
County. Fine Ounces. Value. Fine Ounces. Value. or Decrease-, Fine Ounces. Coining Value. Decrease-,   Juab 40.058.989 830.159.99 23.344.094 689.283.60 -140.876.39 2.685.734.89 3.472.465.31 2.978.394.00 3.850.852.85 +   Pinte 18,007.721 372.252.63 24.302.202 502.371.10 + 130.118.47 48.213.26 62.336.34 71.758.19 92.778.26 +   Pair Jake 27.911.565 576.983.25 34.923.135 721.925.28 + 144.942.08 7.063.944.54 914.029.30 1.048.828.26 1.366.060.78 +   Summit 27.912.92 29.92.75 21.926.28 + 144.942.08 7.063.944.54 914.029.30 1.048.828.26 1.366.060.78 +	. 1901,		01.				1901.		1902.		1	
$ \begin{array}{c} Juab \\ \hline \\ Pinte \\ \hline \\ adr I ake \\ \hline \\ Summit \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	County.		Value.	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE	Value.	or	12.111.0		Carlo Construction of the		Increase+ or Decrease	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Juab Pinte salr I ake Summit Toosle Utah Impossible to classify	40,158,98 18,007,72 27,911,56 18,731,37 80,978,76 120,00 2,890,79	830,159,99 372,252,63 576,983,25 283,852,75 1,673,979,70 2,480,62	$\begin{array}{r} 23,344,094\\ 24,302,202\\ 34,923,135\\ 15,220,219\\ 81,570,082\\ 165,122\\ \end{array}$	689,283.60 502,371.10 721,925.28 314,629.85 686,203.24 3,413.38	$\begin{array}{r} -140,876.39 \\ +130,118.47 \\ +144,942.03 \\ +30,777.12 \\ +12,223.54 \\ +932.76 \\ -31,871.05 \end{array}$	$\begin{array}{c} 2,685,734.89\\ 48,213.26\\ 706,944.54\\ 7,060,623.56\\ 305,956.00\\ 640.00\\ 84,365.82 \end{array}$	$\begin{array}{r} 3,472,465.31\\ 62,336.34\\ 914,029.30\\ 9,128,887.03\\ 395,579.47\\ 827.47\\ 109,079.04 \end{array}$	$\begin{array}{r} 2,978,394.00\\ 71,758.19\\ 1,048,828.26\\ 7,952,515.12\\ 294,551.61\\ 1,125.45\\ 108,997.30\\ \end{array}$	$\begin{array}{r} 3,850,852.85\\92,778.26\\1,356,060,78\\10,282,039,75\\380,834.40\\1,455.13\\140,925.83\end{array}$	$\begin{array}{r} + & 378,387.54 \\ + & 30,441.92 \\ + & 442,031.48 \\ + & 1,153,152.72 \\ - & 14,745.07 \\ + & 627.66 \\ + & 31,846.79 \end{array}$	

# ORES FROM WHICH UTAH'S PRODUCTION OF GOLD AND SILVER WAS EXTRACTED IN 1901 AND 1902.

G				Gold.	les permitentes i		Silver,					
		1901.		18	1802.		1901.		1902.			
	Classification.	Fine Ounces.	Value.	Fine Ounces.	Value.	Increase+ or Decrease-,	Fine Ounces.	Coining value.	Fine Ounces.	Coining Value.	Increase+ or Decrease	
h h h	quartz and dry ores. cyanide mill bullion. lead ores copper ores milling ores	98,793.489 17,724.888 43,521,388 18,075,018	\$ 138,256.32 2,042,242.66 366,405.96 899,666.94 373,643.78	104,653,092 21,317,007 42,638,523 14,700,153	440,661,65 881,416,49 303,879,13	$\begin{array}{r} +121,123,75\\ +74,255.69\\ -18,250.45\\ -69,764.65\end{array}$	48,213.26 7,357,481.54 2,201.143.66 862,755.00	9,512,703.35 2,845.923.11 1,115,481.21	71,758.28 8,700,218.22 2,409,592.02 761,842.12	92,778.38 11,248.766.99 3,115,432.11 985,007.99	+1,736,043.6* + 269,509.00 - 130,473.22	
Ú.	Total	184,802,933	3,820,215.66	192,156.888	3,972,235.41	+152,019.75	[11,319,860.07]	14,635,778.66	12,678,036.66	16,391,804,97	+1,756,026,31	





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