OLD SPRINGS, HOME OF THE JENNIE GOLD MINE. One of the Successor of Short & Elliott

the future that the little town of Gold Springs, nestling among the

24

pine-covered hills of southwest-ern litah, sees before R. Two years previous to the time of the present writing, Gold Springs consisted of two cabins, one belonging to C. A. Short and one to H. R. Elliott. Today it Is . population of about 250, with better residences than any other camp in the vest; with a first class water system: a big mercantile establishment; hotel; duly stages both ways to Modena, the nearest railroad station on the San Pedro, Los Angeles & Salt Lake rallroad, and it commences the new year with an assurance that its population will be increased several hundred-fold and that it will be the center of one of the richest gold mining fields of the west before another Christmas comes Around. Adding a new town to the map by the growth of another community is due to the success of the Jennie mine And the success of the Jennie mine is fuo to the efforts of Messis. C. A. Short and H. R. Elliott, whose faith in the richness and permanency of the ore bodies of the Jennie property and sur-rounding groups keyt them for years working away to place the mine where it is today. It took the combination of qualities that these two men pos-eres to make a successful mine and around. Adding a new town to the map

O other western gold camp has | build up a community like Gold Springs. NATIVE OF THE WEST.

NATIVE OF THE WEST. Iteared in the west, with a knowledge of mines, mining, milling and smelting a pured by the hard knocks of actual work in these different enterprises, Mr. Short was well equipped to take charge of a property like the Jennie and make a success of the mining end of it. But no mine, even with as big ledges as the Jennie possesses, can operate on a large scale, and make a success, with-ort, englisi. It was in the raising of capital to put the property on its feet that Mr. Elliott was peculiarly fitted. Reserved in the sear, with many friends of means, he undertook the securing rf capital from them and their friends, and his success in that line has placed him among, the foremost promoters of im sinner, the foremost promotors of wost.

Just two years ago Mr. Elliott went east to secure funds to open up the Jerrole mine. He enceeded in placing a block of the stock at 5 cents a share, with which the work was commenced. A shart was sunk about 400 feet from the present unreating shaft urean a

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The best sculpted plant in the interested in the set of the set of the set of the interested in the set of the interested in the set of the interested in the set of the set of

cent of starts six of these engines will be in operation. They are operated with dis-eyanide the counted from Los Angeles a at in the cost which makes their operation cheap cost which makes their operation cheat er than any other power that could scoured at the promoti thus. The wat for mill purposes is accured from to spring about threa-quarters of a in distant. A sufficient quantity for purposes is assured.

NEAREST RAILWAY STATION

The mine is situated 14 miles for the rathead station, Modens, will go roads all of the distance. Then statistic for mining purpose can secured from the neighboring hills.

Revens that everything to the end-physical conditions goes to make a Journe at ideal mining to position That size of the ledge, the value of one, to a foration, water, i repeated chronic at combine to make it a presention.

Tais is in the management and Tais is in the hands of Meyers and Ellet* and their standing

operated for the blar along is sport operated for the best intorests the precise laters in the company

company has a capitalizatio nor see shares of stock, par value finite in, premation officers are C. A. II

the, present officers are C. A. Samp president and manager. (1. R. Edue vice president; W. W. Barton, secretar and treasurer, and they, with Albert Martin and E. J. Koarns form the board of directors. The Sait Lake Cr offices are at 212 Utah Savings & Tr building. Sait Lake City.

Sierra Madre Mining District

LTHOUGH Sierra Madre mountain did not, in 1907, begin the shipment of ores to the local niarket it was not because the mines of that locality did not have the ore to ship, but because development and process of treatment have not been et completed in the chief mines of that district.

In the Sierra Madre district there are about 300 mineral locations, with nine legally incorporated companies doing active work. These are the El-dorado, Napoleon. Santa Maria, South-ern Pacific. Prince of India. Great Northern, Elkhorn, Midland, and Sier-ra Madre companies: all lying on the western slope of Sierra Madre moun-

western slope of Sierra Madre moun-tain. The district itself lies about half way between Ogden and Brigham City in Boxelder county, and, about forty-five miles north of Salt Lake City. The heavy work of the District dur-ing the year has been carried out in the Napoleon and Santa Maria. These properties lie adjacent, and, the miner-alization occurs in a series of fissure veins in each. In the Napoleon gold, silver and copper are the metals showsilver and copper are the metals show-ing in the greatest value, and in the Santa Maria gold, silver, lead and copper abound.

per abound. On the Napoleon during 1907 a very large volume of work has been done, both underground and on the surface, although this company is incorporated under the laws of Utah, yet, most of the stockholders are rosidents of Illi-nois and Iowa. The company may be considered a close corporation. These groups of mines lie on the steep mountain side, the mineral wealth is found in three very wide copper-

these mountain side, the mineral wealth is found in three very wide copper-bearing lodes, two of which run paral-lel and the third a strong cross country veln that faults the parallel lodes. Four tunnels have been driven on the veins, the three upper being known as levels Nos. 1, 2 and 3, and are driven at intervals along the Napoleon lode a distance of about 5,000 feet, and still lower down, there is now being driven what is locally known as the Illinois tunnel; this will be the main ore adit of the property, and will connect the mine with the tramway. The make-up of the ores of the Na-poleon veins runs from \$1 to \$3 gold and from one to two ounces silver, and froin 2 to 10 per cent copper, the work being down is of a very substantial charac-

down is of a very substantial charac-

The tramway now being built will easily discharge at the lower terminal 800 tons every 10 f irs, and when the

Official records of the metals produced from the mines of Utah have been kept since 1871, and while it must be acknowledged that there are some discrepancies, the following table will give some idea of the enormity of the great wealth that has been poured from the mountains into the world's great storehouse of wealth. The records from 1871 to 1875, inclusive, are as follows: 1871-Gold and silver, \$2,4300,000; lead, \$500,000. Total, \$2,500,000. 1872-Gold and silver, \$2,445,254; lead, \$3,250,487. Total, \$5,605,771. 1873-Gold and silver, \$3,911,601; lead, \$1,480,044; copper, \$25,009. Total, \$5,370,735. 1875-Gold and silver, \$3,911,601; lead, \$1,480,044; copper, \$35,010. Total, \$5,370,735. 1875-Gold and silver, \$2,465,922; lead, \$1,080,459; copper, \$35,010. Total, \$5,376,735. 1875-Gold and silver, \$2,955,922; lead, \$1,080,459; copper, \$35,010. Total, \$4,883,760.

Record Showing Thirty-six Years' Production of Utah's Mines, Mills and Smelters.

	YEAR.	Gold,	Silver.	Lead.	Copper.	Aggregate,
877		\$ 358,107.75	\$ 6.221,642,60	\$ 1,645.082.40		\$ 7.237,833,78
17.8	***********	276,874.65	4,752,159,63	798,471,34	\$ 24,101.08	5,851,606,60
79		325,180.44	4,105,471.70	695,652,00		5,126,305,14
80	************	165,773,40	4,029,501.80	785,065,97		4,981,840.6
8t.	A TRACTOR STREET	144,317.94	5,503,762,95	1,101,050,14	************	6.749,131.0
82	*************	186,836.13	6.114,874.50	1,771,786.00	75,735,00	8,149,231,6
83		144.503.97	4,984,939,30	1,747,326.45		6,876,769.7
54		114,305.10	6,122,047.04	1,149,852,67	6,337.20	7,393,642.0
£5	7 59 1 7 5 h X 5 7 6 h 4 m 4	184,025.01	6.211,596,56	1,222,172,46	and a second second second	7,617,794.0
6	*************	218,626.59	5,860,837,35	1,414,898,98	144,453.00	7,638,815,9
87	************	235,369.29	5,976,884,89	1,808,535,78	1,245,566,00	7,645,858,9
18	EFFERRE ALLER AN EXCLUSION	287,023.62	5,787,527,51	1,203,313,24	288,681,60	7,566,545.9
9		516,233.25	6,656,249,99	1,468,246.66	206.079.20	8,846,809.1
0		699,700.17	8,492,209,44	2,098,766.51	76,536,64	11,367.212.7
1	DESCRIPTION OF A REAL OF	747,427.20	8,759,206.60	2,657,495,84	100,983,30	12,265,112.9
2		789,221.94	7,792,388.65	2,505,720,44	91,130.80	11.178.461.8
8	1411.00.000.000.000.00	1,117,668.24	5,233,965.20	1,542,135.74	69,060,35	7,962,829.5
4	*******	1,166,346.09	4,193,674,80	895,124.86	53,308,00	6,308,453,2
5	*******	1,352,190.06	5,366,032,11	1.486.427.22	151,532,99	8.256,182.3
6	*********	1,940,830,32	5,843,868.00	1,358,456.11	267,129.50	9,410,293.9
q.	221100000000000000000000000000000000000	1,663,252.89	4, 522,058.65	1,818,607.89	813,677,28	8,317,596.7
8	NAMES OF TAXABLE PARTY.	2,168,283.00	4,403,854.28	2,345,998.60	426,691.04	5.347.826.8
9	AND AREAS ADDRESS	3,581,408.22	4,612,351.05	2,701,869.00	1,245,000.00	12,141,628,2
Ő.	ARRESTS AND ADDRESS	4.263,414.87	6,248. 610.07	3,122,863.25	2,514,597,48	16.149,485,6
Į,	************	8,945,308.57	6,801,816, 18	8,210,967.50 *	3,750,247.82	17,708,334,5
2		3,972,235.41	8,719,359,42	4.500,698,15	8,017,415.06	18,209,609.0
8		4,905,092.12	10,470,894.33	4,650,753.94	4,440,698.79	24,467,439,11
14	3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4,185,554,42	6,986,985,77	5,013,568.47	5,643,684.79	21,861,288.40
95	************	5,149,787.65	6,650,128.57	4,897,532.63	9,240,690,63	25,944,149,65
06		5,218,386.00	7,738,925.00	6,413,640,00	9,713,520.00	29,084,471.00

During the past two or three years, the production of zine has cut a figure in the metal output of the state. In 1996, 31,449 short tons were produced on which the United States geological survey statiticians place a valua-tion of \$298,778. When the figures are made up for the present year the chances are that the output will be even greater as the Scranton mine in the Tintic district has been a steady shipper.

ation as were those in the old Emma. the Flagstaff, Grizzley and Albior In each locality the silver-lead ores

lie in the Silurian limestone or rest along the contact between the Silurian along the contact between the Silurian limestone and the Cambrian quartzite In each place the limestone is about 1,500 feet in thickness, and at the El-dorado the summit of the mountain is capped by a body of Weber quartzite, a remnant of a once vast measure scored away at Alta. But very promi-nent at the Eldorado peak, and showing much copper at its contact with the much copper at its contact with the limester Sierra Madre is a very large district,

utmost confidence in its future and is shaping matters to conduct a much more vigorous campaign in the future than has been the case in the past. The present year has been devoted almost entirely to the task of enlarging the tunnel through which the property is being developed. This has been going on for about 3,000 feet; the total length of the tunnel being approximately 3,400 feet. Actual development was not resumed until about the first of the present month and Mr.

developments there. Mr. Knight has the | manent buildings and now employed have comfortable quarters, which is an improvement that has been needed. An-other innovation was the construction of a telephone line to Heber City giv-ing the camp outside communication; something that it did not have before. TRAMWAY PROJECTED.

Owing to the inaccessibility of the camp during the winter months it is probable that an aerial tramway will be crected in the near future for the conveyance of ore and supplies. The company owns about 60 claims-most-ly patented; also valuable water rights and mill sites. An electric power plant is among the improvements planned for is among the improvements planned for the coming year and from this source



connections are made between the Illi-nois tunnel level and No. 1 the works can easily send out that amount of tonage for reduction at the concentra-tor. In the upper workings of the property there is a large volume of ore

ANOTHER ACTIVE PROPERTY.

The Santa Maria Gold & Copper company, whose property lies southeast of the Napoleon, has gone forward with its improvements during 1997, and the work planned for the year 1998 takes in a vory large scope of development and improvement

Improvement. This company owns a large area of ground, and within its own borders seven fissure voins run from east to west parallel through the gnetiss rock that constitutes the base rock of the property is a continuence of the Eldo-rado sliver-lead vem for about 4.000 feet. The silver-lead ores of this vein in the Sants Maria are abundant and rich enough for profitable working. During 1906 the work done opened a large area of ground in the eastern ex-tension of the Santa Maria lode, and a line of shafts were suak from north to During 1908 the work done opened a large area of ground in the eastern ex-tonsion of the Santa Maria lode, and a line of shafts were suck from north to south, each being driven on a separate yein, but in line with each other. This was done to find the advisability of running a cross country tunnel to cut the seven wostern velos of this property at right angles, with the aim of puk-ing this tunnel the main adit from which to draw the entire tonnage of these seven velos. Above the lead of the

which to draw the entire tondage of these seven veins. Above the level of this tunnel the shafts run down on the veins la every instance have shown good values in copper, gold and aliver, much of which is sufficiently high grade to small with-oni concentration. Finding this condi-tion satisfactory the Clara Helle tun-net was started. It is being driven for-ward, and is must be about 500 feet. To facilitate and excedite the completed will be 1,500 feet in length, eleritor power is new being taken over a line from the Boxelder power line that runs about two miles weak. By means of this line, two miles weaks of this tunned. The comparise of this tunned, which in solution of this worked in the mine. The comstruction of this worked in the mine.

mountainous and broken, wild and dif-ficult of access in many parts, really but little prospected. In the western part, where the mines here described lie, there has been considerable work done, while beyond Eldorado peak and Mount Wolf peak and Monto Christo the land is as to its mineral possibili-

property there is a large volume of ore sufficiently high grade to smelt with-out concentration. Vast bodies of specular from extend has come over the mining interests of our country the Napoleon Copper com-pany is going forward with develop-ment work and expects to have its property in the production stopes in the early summer of 1908. part of the country extends across the area of the Napoleon and Santa Maria groups of claims, all of which in time come into market with only a limited amount of development.

Tintic Mines

(Continued from page 23.)

The ore houses are filled with ore, and the opening of three caves recently has materially increased the resurves. The Black Juck has good equipment and is looked upon with a great deal of favor.

CROWN POINT-IRON BLOSSOM.

TINTIC SMELTING. Another Thile concorn with which Mr. Knight and associates are identi-fied is line Tinte Similing company, which has a lead smelter in course of construction. It will probably be 90 days before it is ready for commission. In connection with this smelter is a stan-dard gasted railroad is now being built, by the Eureka itsilway company. The road will be about 10 miles long and will havi ore from all of the Knight properties as well as some of the other leading mines of the camp. <text><text><text><text><text><text><text><text><text><text><text>

Knight says this work is to be con

Knight says this work is to be con-tinued vigorously with the main ore body of the property without delay, which it is figured, will be encountered within the next 1,200 feet. Considerable expense has been gone to in providing the mine with per-



Scranton Mine in 1 orth Tintic.

D ERSEVERENCE on the part of | and other workings in the mine, which Theodore G. Wolf, a well known Scratton, Pa., capitalist, is

what has perched success upon the banner of the Scranton Mining and Smolling company, operating in the north end of the Tintic mining district. He is the owner of a controlling interest in this property and therefore, advanced the bulk of the money necessary to place the mind upon a self

sary to place the mine upon a self austaining basis, which was something like three years ago. The Scraulon company is one of the prometions of the late P. A. H. Frank-in, but under his direction it was not a success. The stock had been sold in the cast extensively and the mine-with all its modern equipment would have gone under the hammer had not Mr. Wolfe come to the reacts, and did this even against the advice of cer-tion mining enginesis who had exam-ined the property. Newton A. Dup-yon, the present manager, like Mr. Wolf, believed the property possassed merit and in due time development was begun upon a systematic scale. WORKED SINCE 1990.

and other workings in the mine, which is equipped with an engine, compres-sor, all drills and all boists, a fine set of buildings for bunk house, boarding-house, nearay office, carpenters' shop. blacksmith shop, barras and ors bins. The autput of the Scranton mine from Jan. 1, 1997, up to the recent slump averaged over 1,200 tons of re-per month, of which about 1,000 tons was zine ors and 200 tons lead are. The zine ors is shipped to the zine smallers in the Kansas gas belt. The lead ores are treated in the Utah small-urs.

LEAD AND ZINC PRODUCTS.

LEAD AND ZINC PRODUCTS. As may be seen from the above, the chief products of the Scranton mino are lead and zinc. In the mina the lead and the ginc ores are separate. The lead ores have very little. If any, zinc in them and the zinc ores have no lead in them. The most notable thing about the mine is the vasiment of the deposits. As yet only the sur-face of the ground has been soratched, as mining parlance would have it, but the amount of one exposed is remark-able. For the first four years, the development of the Beranian mine was a heavy tax upon the stockholders but, as already stated, through the able management and financial as-sistance of Mr. Theodore G. Wolf, the president of the company, the mine unally reached a soft-supporting po-sition

altion The officers of the company are: President, Theodore G. Woif, Scranton, Pa.; vice president, Everett Warren, Beranton, Pa.; treasurer, H. A. Knapp, Beranton, Pa.; managing director, N. A. Dunyon, Sait Lake City; secretary, T. H. Bramel, Sait Lake City.



COPPER AND LEAD ORES AND BUL-LION, MATTE, DORE BARS AND **ALL METALLURGICAL PRODUCTS**

UNITED STATES SMELTING CO.

Copper and Lead Smellers and Converters Bingham Jct., Utah MAMMOTH COPPER COMPANY

Copper Smelters and Converters Kennett, California RICHMOND-EUREKA MINING CO.

Eureka, Nevada

UNITED STATES METALS REF. CO.

Copper Smelters and Converters and Electrolytic Copper Refinery,

Chrome, New Jersey

UNITED STATES METALS REF. CO.

Electrolylic Lead Refinery

Mines and Millis,

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CIA REAL DEL MONTE

Pachuca, Mexico

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