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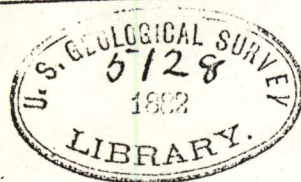
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ITEM 29

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BIENNIAL REPORT  
OF THE  
STATE MINERALOGIST  
OF THE  
STATE OF NEVADA,  
FOR  
THE YEARS 1875 AND 1876.

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1271



worked at intervals, and for the  
 venty-six, about two thousand  
 ne Chance has produced con-  
 nuring the last two years little  
 Flagstaff and Victorine have  
 t, but since my last report no  
 There are other locations in  
 ults have been obtained from

umber of years, until in eigh-  
 resumed by the San José  
 ghteen hundred and seventy-  
 ere produced, of the value of  
 ng the first half of eighteen  
 and thirty tons, valued at  
 ninety-one dollars and fifty  
 l of work towards develop-  
 t will meet with the success  
 nning of the year eighteen  
 k was in connection with the  
 of six to seven feet per day.  
 pany owns a twenty-stamp  
 in it from the Cherry Creek  
 C. B. Dahlgren, I am in-  
 and seventy-six in the Gill-  
 and seventy-six feet long to  
 beyond. On entering the  
 et to the old shaft, which is  
 another drift west on the  
 ind ground. The mill was  
 o two thirds of its capacity.  
 ellious ores assayed thirty-  
 tailed ten and twelve one  
 venty-six dollars and two  
 nd one half. The cost of  
 airs on mill, was nine dol-  
 eksilver was two hundred  
 h of a pound to each ton  
 nd one half cords per day.  
 t hundred and thirty-eight

T  
 ll Creek Mountains. The  
 y, eighteen hundred and  
 eated. The Home Stake,  
 her locations, were made  
 ever been worked to any  
 eated about four years

## WHITE PINE COUNTY.

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later; these have produced some bullion. The burning of the mill at Robinson District was a serious drawback to the mines of this district.

### DIAMOND DISTRICT.

This district is situated north of Eureka about eighteen miles, in the Diamond range of mountains. The ores are argentiferous carbonates and galena. About three years ago a smelting furnace was erected, and some bullion produced.

The Champion is the principal location. The ore is found in bunches and pockets. The Curtis and Keeler, Cumberland, and other locations have yielded some ore, but during the past two years no great amount of work has been done on any of them. The district has all the facilities for mining and milling, and should good bodies of ore be developed in the future, it can be conveniently and profitably worked.

### ROBINSON DISTRICT.

Since the discovery of this district, a great many locations have been made. It is situated in the Egan range of mountains, about forty-five miles east of Hamilton. Limestone is the formation in which most of the veins occur, and the mineral belt is of considerable length and breadth. Mineral City is the district center, and quite a large population was here at one time.

#### THE CANTON COMPANY

Has done some good work, and the furnace, since it was remodeled, has produced some very gratifying results. The ten-stamp mill situated just below the town, and belonging to the Watson Company, was destroyed by fire in April, eighteen hundred and seventy-five. This district is the center of an extensive mineral region, and the necessities for mining and milling are close at hand. On the first of last December the furnace was in successful operation, and during the month previous a great deal of good ore had been worked, producing a large amount of bullion.

### WARD DISTRICT.

Quite an advance in the prosperity of this district has been made during the past two years. It is situated near the western border of Step-toe Valley, and in the same range of mountains with Robinson, about twenty miles distant from the latter place. The Town of Ward is already the most populous place in the county. Nearly the whole of it has been built during the past year. The prevailing formations are granite and dolomite, though there are other rocks of less frequent occurrence in the vicinity. The geographical position is good. A natural road connects it with the railroad, while the requisites for milling and mining are mostly abundant and near at hand. Water is







is plenty of wood

San Francisco incorporated. The Paymaster is a two water per day. In addition and has now in a mill which was erected. The mines, are the Defiance, America. The mine is three hundred feet deep. Helena, though as is a proportionately rich. The mine is worth \$100,000, of which \$50,000 is in the Paymaster mine. The mine is a depth of seven thousand feet in the Paymaster mine.

and inhabitants. The election. The mine is all the prospect and if as much as during eight years in the mine ore from the mine started, and of leaching or the State by the mine was employed and economical. Ward, it will be. No quicksilver to extract in a manner as for the settlers of the mine. This operation is allowed to be that it may be on the hearth about two tons of ore, which is of diffusion by the means of the tanks. The mine is of sodium gold and the gold have all

been extracted from the pulp. The silver and gold in this liquid is afterwards precipitated by adding a solution of lime and sulphur. The liquid is used over and over again in this leaching process. The precipitate is collected and strained through sacks, until it becomes partially dried. It is shaped into small bricks, the sulphur burned off, and then it is melted in crucibles and moulded into large bricks, when it is ready for shipment. The whole expense of the machinery required in this leaching process, costs in San Francisco only five hundred dollars. A very large item of expense in the process of amalgamation, is the loss of quicksilver. Here, no quicksilver whatever is required. A little longer time only is needed; but the addition of a few more tanks for leaching, obviates any difficulty that may be experienced on this account, and these can be furnished for a very small portion of the cost of the quicksilver.

Mr. Robert Briggs, Superintendent of the Paymaster, has, by request, kindly furnished the following in regard to the workings of the mine up to November first, eighteen hundred and seventy-six:

#### "PAYMASTER MINE.

"The main shaft had reached a depth of one hundred and sixty-five feet, and tunnel number one was seven hundred and thirty feet long; tunnel number two was eleven hundred and forty feet long; tunnel number three, or Mountain Pride, eight hundred feet, and tunnel number four, or main Paymaster, was seventy-eight feet. The winzes, numbers one, two, three, and four, were each one hundred and forty feet deep. The amount of ore produced from this mine since January first, eighteen hundred and seventy-six, to November first, was six hundred tons, with a value, per ton, of two hundred dollars, aggregating one hundred and twenty thousand dollars. The amount of ore worked in the same time was five hundred tons, and the amount of bullion produced was one hundred and fifty tons; the value of the bullion being five hundred dollars per ton. There were shipped to San Francisco one hundred tons of ore, with a value, per ton, of six hundred dollars."

#### THE DEFIANCE.

The developments made in the Defiance mine, the other main location of the Martin White Company, have shown the ores to be exclusively of a carbonate character, and as such, will produce a sufficient supply to keep the furnaces in constant operation. The main shaft is one hundred and forty feet deep, and the north and south drifts have advanced one hundred and one hundred and twenty feet respectively. Winzes numbers one and two show sixty feet each. The old shaft shows a depth of one hundred and fourteen feet, while tunnels numbers one and two are in length, respectively, one hundred and twenty-five and one hundred and thirty-six feet. The drift from tunnel number two is seventy feet long, and the winze from the same tunnel shows a depth of eighty-three feet. The amount of ore produced in the same time, between January and November, was one thousand tons, with a value, per ton, of thirty dollars. The developments in the Mammoth mine have resulted in a main tunnel of four hundred feet in length.



In addition to the successful operations of the Martin White Company, four other companies are now operating in the district, and all with results more or less favorable. The South Paymaster Mining Company is working the Cleopatra mine, which is a continuation of the original Paymaster vein. The Juno Company is working the Juno vein, which is parallel to that of the Paymaster. While both of these companies are extracting considerable quantities of ore, and are doing much towards developing the resources of the district, neither of them has yet erected works for reduction.

The Steptoe Consolidated Company is working a series of mines, the most productive of which are the Ready Cash, Emily, and Light. The Ready Cash has been opened by a shaft to a considerable depth, and is in a fine body of carbonate ore, which assays in the neighborhood of one hundred dollars in silver to the ton. Not a great deal of prospecting has yet been done, but the vein is a large and strong one, and promises well for the future. The vein of the Emily is also of considerable size, and the working shows some excellent results. The Light has excellent prospects, for the Paymaster is adjoining, and the developing shaft of the former is only a few hundred feet distant from the principal shaft of the latter. Some very rich ore has already been produced, and when the workings have progressed somewhat beyond, some richer developments will probably be made.

There are a number of other locations here, and the croppings in many cases are very favorable, but time is necessary to determine the actual value of the same. On the whole, the prospects are very encouraging, and the district promises to become one of the leading in the State. When the Spring opens out, the work will take an additional start, and the Steptoe Company will increase its appurtenances by the erection of proper reduction works.

#### OSCEOLA DISTRICT.

Through the courtesy of Mr. George G. Blair we are able to summarize the workings of this district during the last two years, as follows: The Cumberland mine, owned by the above gentleman, was located in October, eighteen hundred and seventy-four. At a depth of forty feet it shows a ledge six feet in width, which carries a very fair grade of free gold and gold-bearing sulphuret ore, which works sixty-five dollars per ton. The ledge runs east-northeast by west-southwest, and stands almost perpendicular. The formation is quartzite.

The Osceola ledge, also located and owned by Mr. Blair, has been worked by an incline to a depth of thirty feet, and shows a ledge sixteen inches in thickness. Some of the ore is of an excellent character. The footwall is quartzite, and the hanging wall is slate. The course is east and west, the pitch being south at an angle of seventy degrees.

The Golden Eagle ledge, owned by James S. Matson, stands almost perpendicular, and is worked by a shaft one hundred feet in depth and a drift from the bottom running fifty feet east. The ledge is shown to be thirty-three inches in thickness. Also, one runs fifteen feet to the west, which shows the ledge twenty inches in thickness. The ore of this averages, according to various estimates, from twenty to fifty

dollars per ton in gold, there being free gold in most all portions of the ledge.

The Credit ledge, owned and worked by W. almost on the summit of the Snake range, and east, the pitch being southwest at an angle of work is carried on by a tunnel in the mountain is eighteen inches in thickness, and produces

There are other claims in the district which which have not yet had much work done up little silver produced, the bullion from the area about sixteen dollars per ounce. There is certainly these mines already opened to warrant the reduction works for reducing the ore on a large by the old-fashioned Mexican arastra. But these mines are men of limited means, and are anxious at their command. Here is a good field capital, and it is hoped the attractions at White Pine hitherward.

#### HUNTER DISTRICT

This district is thirty miles south of Egan, Idaho. The climate is good, and wood, water, and ore plentifully found. Limestone and quartzite are in considerable work on the Vulcan has been the vein is east and west; the dip is south; the character are well defined. An average of one some excellent ore, the product being from sixteen ton. For a depth of one hundred and eighty the way.

#### SNAKE VALLEY DISTRICT

Some locations were made here shortly after the district; but little work has ever been done, effected about three years ago. The prevailing granite. Wood and water are in plentiful stock ranges and ranches are found in the area.

#### SHOSHONE DISTRICT

There has been but little advance here since three years ago a Salt Lake company purchased principal locations, and made some developments; profitable results have ever been obtained. While some places showed some good ore, yet there is no amount found to warrant any great expense in



## WHITE PINE

NAME OF MINE OR OWNER.	FIRST QUARTER.			SECOND QUARTER.		
	Tons.....	Pounds...	Gross value.	Tons.....	Pounds...	Gross value.
Aultman.....	30		\$1,200 00			
Battery.....	73	635	8,286 00	7	1,258	\$1,012 86
Bartlett.....				4	1,151	642 42
Buckeye State.....	31		3,070 41	11		761 00
Caroline.....				2	1,760	755 61
California North.....	18		193 50			
Dictator.....	4		720 00			
Exchequer.....				43	970	2,408 42
Eberhardt & Aurora Co.....				3,821		214,301 00
Frederick William, the Great.....	130		975 00			
Grey Eagle.....				5		510 00
Mazepa.....				1		168 39
Mountain Queen.....	1	1,035	263 85	1	372	505 54
Mariposa.....	16	1,500	1,675 00			
Oro.....	49		441 00			
Paymaster.....				10		2,000 00
Rescue.....	51	534	7,360 49	48	747	18,973 35
San José.....	1,456		20,526 00	580		6,771 53
Star.....	460		34,979 00	231		29,499 10
South Aurora.....				5	446	1,391 48
Silver Plate.....				12		842 37
Tuacup.....	67	885	17,000 00	38	729	3,872 00
Vulcan.....				5		1,102 00
Whippoorwill.....						
Aicyone.....						
Joker.....						
Robert Emmet.....						
Stafford.....						
Trench.....						
Boston.....						
Consburg.....						
Dewitt.....						
Elko.....						
Fay.....						
Kellogg.....						
Mahogany.....						
Newark Co.....						
Pacific.....						
Peterson.....						
Prince.....						
Queen.....						
Spaulding.....						
Totals.....	2,388	589	\$96,690 25	4,827	1,433	\$285,517 07

## COUNTY—1875.

THIRD QUARTER.			FOURTH QUARTER.		
Tons.....	Pounds...	Gross value.	Tons.....	Pounds...	Gross value.
			40		\$593 33
3,399	1,943	\$175,935 87	3,895	1,730	226,578 51
2	924	830 96	1	1,808	429 47
100		500 00			
132		14,010 00	41		9,734 80
54	909	7,020 44	29	919	3,400 36
7	1,300	297 65	4	210	602 89
281	969	16,889 07	251		15,000 00
10	1,500	376 00			
2	105	187 29	36	1,124	1,000 00
	1,676	102 00			
24	1,600	297 10			
10	160	393 87	6	1,950	709 65
4	1,080	1,464 65			
			8	1,124	376 32
			1	1,500	82 00
			8	661	643 20
			33	1,289	1,526 69
			72	102	5,040 74
			1	488	272 53
			18	1,881	832 10
			11	62	790 18
			68	148	4,566 14
			1	1,940	157 03
			8	1,250	810 00
			1	604	204 08
			1	1,050	273 32
4,031	166	\$218,304 40	4,543	1,840	\$273,703 34



## COUNTY—1875.

## WHITE PINE

## SECOND QUARTER.

Pounds...	Gross value.
1,258	\$1,012 86
1,151	642 42
1,760	761 00
970	2,408 42
214,301 00	
510 00	
163 39	
372	505 54
2,000 00	
747	18,973 35
6,771 53	
29,499 10	
446	1,391 48
842 37	
729	3,872 00
1,102 00	
1,433	\$285,517 07

THIRD QUARTER.			FOURTH QUARTER.			TOTALS.		
Tons.....	Pounds...	Gross value.	Tons.....	Pounds...	Gross value.	Tons.....	Pounds...	Gross value.
						30		\$1,200 00
						80	1,893	9,298 86
						4	1,151	612 42
			40		\$593 33	82		4,424 74
						2	1,760	755 61
						18		193 50
						4		720 00
						43	970	2,408 42
3,399	1,943	\$175,935 87	3,895	1,730	228,578 51	11,116	1,673	616,815 38
						130		975 00
						5		510 00
						1		168 39
2	924	830 96	1	1,808	429 47	7	139	2,029 82
						16	1,500	1,675 00
100		500 00				149		941 00
132		14,010 00	41		9,734 80	183		25,744 80
54	909	7,020 44	29	919	3,400 36	183	1,109	36,754 64
						2,036		27,297 53
						691		61,478 10
			4	210	602 89	9	656	1,994 37
7	1,300	297 65				19	1,300	1,140 02
281	969	16,889 07	251		15,060 00	638	583	52,811 07
						5		1,102 00
10	1,500	376 00				10	1,500	376 00
2	105	187 29	36	1,124	1,000 00	38	1,229	1,187 29
	1,676	102 00					1,676	102 00
24	1,600	297 10				24	1,600	297 10
10	160	393 37	6	1,950	709 65	17	110	1,103 02
4	1,080	1,464 65				4	1,080	1,464 65
			8	1,124	376 32	8	1,124	376 32
			1	1,500	82 00	1	1,500	82 00
			8	661	643 20	8	661	643 20
			33	1,289	1,526 69	33	1,289	1,526 69
			72	102	5,040 74	72	102	5,040 74
			1	488	272 53	1	488	272 53
			18	1,881	832 10	18	1,881	832 10
			11	62	790 18	11	62	790 18
			68	148	4,586 14	68	148	4,586 14
			1	1,940	157 03	1	1,940	157 03
			8	1,250	810 00	8	1,250	810 00
			1	604	204 08	1	604	204 08
			1	1,050	273 32	1	1,050	273 32
4,031	166	\$218,304 40	4,543	1,840	\$273,703 34	15,791	28	\$874,215 06



## WHITE PINE

NAME OF MINE OR OWNER.	FIRST QUARTER.		
	Tons.....	Pounds....	Gross value.
Battery.....			
Buckeye State.....			
Eberhardt and Aurora.....			
Exchequer.....	438	188	\$17,413 43
Fair Play.....			
Grey Eagle.....			
Josephine.....			
Pacific.....	45	1,231	3,226 99
Paymaster.....			
Queen.....	6	1,005	523 51
Roseno.....	28	382	1,114 01
South Iceberg.....			
Stafford.....			
Star.....			
Teacup.....	30	1,579	3,792 18
Trench.....			
Ward Beecher.....			
America.....			
Adam.....			
Carnern & Testora.....			
Everts & Co.....			
Mountain Queen.....			
Silver Plate.....			
Silver Peak.....			
Truckee.....			
J. Grandcluyer.....			
Star (tailings).....			
Totals.....	549	385	\$26,070 12

## COUNTY—1876.

SECOND QUARTER.			THIRD QUARTER.		
Tons.....	Pounds....	Gross value	Tons.....	Pounds....	Gross value.
27	1,311	\$2,654 11			
51	1,076	4,416 95			
2,627	680	120,862 91	3,797	562	\$179,364 11
304	1,085	12,295 77	452	580	10,854 96
7		914 39			
58	640	2,468 62			
22	470	2,544 10			
170		6,451 00	16	665	737 37
60		28,505 50			
			5		950 00
			14	200	2,033 72
17	1,051	1,398 75			
103		5,457 92	69	1,244	2,934 15
171	215	4,428 98	78	430	1,798 94
41	1,561	2,571 98	6	1,140	1,123 47
6	1,500	992 25	6	520	943 80
23	1,013	1,303 19	7	1,887	464 47
			1	526	474 19
			7	619	527 30
			1	1,719	228 35
			8	447	795 95
			2	273	348 43
			13	115	414 88
			4	1,740	435 08
			8	10	189 93
			6	423	919 54
			254	320	4,320 72
3,692	602	\$197,266 42	4,773	300	\$212,419 36



COUNTY—1876.

SECOND QUARTER.			THIRD QUARTER.			TOTALS.		
Tons.....	Pounds....	Gross value	Tons.....	Pounds....	Gross value.	Tons.....	Pounds....	Gross value
27	1,311	\$2,654 11	.....	.....	.....	27	1,311	\$2,654 11
51	1,076	4,416 95	.....	.....	.....	51	1,076	4,416 95
2,627	680	120,862 91	3,797	562	\$179,364 11	6,424	1,242	300,127 02
304	1,085	12,295 77	452	580	10,854 96	1,194	1,853	40,564 16
7	.....	914 39	.....	.....	.....	7	.....	914 39
58	640	2,468 62	.....	.....	.....	58	610	2,468 62
22	470	2,544 10	.....	.....	.....	22	470	2,544 10
170	.....	6,451 00	16	665	757 37	231	1,896	10,435 86
60	.....	28,505 50	.....	.....	.....	60	.....	28,505 50
.....	.....	.....	5	.....	950 00	11	1,005	1,473 51
17	1,051	1,398 75	14	200	2,033 72	42	582	3,147 73
103	.....	5,457 92	69	1,244	2,934 15	17	1,051	1,398 75
171	215	4,428 98	78	430	1,798 94	172	1,244	8,392 07
41	1,561	2,571 98	6	1,140	1,123 47	249	645	6,227 92
6	1,500	992 25	6	520	943 80	79	280	7,487 63
23	1,013	1,303 19	7	1,387	464 47	13	20	1,936 05
.....	.....	.....	1	526	474 19	31	400	1,767 66
.....	.....	.....	7	619	527 30	1	526	474 19
.....	.....	.....	1	1,719	228 35	7	619	527 30
.....	.....	.....	8	447	795 95	1	1,719	228 35
.....	.....	.....	2	273	348 43	8	447	795 95
.....	.....	.....	13	115	414 88	2	273	348 43
.....	.....	.....	4	1,740	435 08	13	115	414 88
.....	.....	.....	8	10	189 93	4	1,740	435 08
.....	.....	.....	6	423	919 54	8	10	189 93
.....	.....	.....	254	320	4,320 72	6	423	919 54
3,692	602	\$197,266 42	4,773	300	\$212,419 36	254	320	4,320 72
.....	.....	.....	.....	.....	.....	9,014	287	\$435,765 90