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Mar. 1902



REGISTER

OF

MINES AND MINERALS

INYO COUNTY
 CALIFORNIA
 ISSUED BY THE
 STATE MINING BUREAU
 Ferry Building, San Francisco
 LEWIS E. AUBURY
 STATE MINERALOGIST
 By authority of HENRY T. GAGE, Governor of California

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 STATE MINERALOGIST.

Data Collected
 March, 1902

THE Register of Mines and Minerals of the State of California, issued by the State Mining Bureau, is intended to give information concerning the gold mines—quartz, hydraulic, drift, placer, etc.—as well as a list of mills and arrastras; and also to give corresponding information relating to each of the various mineral substances mined or commercially utilized in the State.

This forms practically both a State and County Directory of the mines of California, the Register being printed so that each county is represented in a separate pamphlet. The Register will answer for the guidance of those who want to look at any particular mine, or to learn the essential facts concerning it.

Of course some names may be omitted owing to the reluctance or indifference of the owner or superintendent in furnishing the necessary data, or by being overlooked by the Field Assistant of the Bureau.

It is intended, however, that in time such omissions will be filled in, and in that event a supplement will be published and attached to the Register of each county. Such supplements will contain not only corrections to date, but the names of all new properties and owners.

It has been the intention of the State Mineralogist to obtain the desired information concerning the mines and minerals and to publish only the essential facts in as condensed a shape as possible. For this reason the tabular form has been adopted, so as to reduce the verbiage necessary in a printed report of the ordinary character, where the essential description, slightly varied, must be repeated in each paragraph.

Those things only are published which are of general interest and which the mine-owner has no reason to object making public. It is not considered the province of the Bureau to “expert” mining properties or to pass on their standing or value one way or another. Should more detailed information be desired by any individual, the addresses of owner and superintendent are given, and they may be communicated with.

At the same time the figures given under “developments” will show at once whether the mine is a fully developed one or a prospect, so that any possible misrepresentation may be checked.

The information printed is of such a character that it cannot do any injury to the reputation of the mine described, but will be of service to the owners and to the public. In order to have the data as correct as possible, only actual residents of the respective counties, familiar with their own localities, have been employed as Field Assistants to prepare the Register.

To accompany the printed Register is a topographical map of each county, showing all mineral locations, etc. These maps are on the large scale of two miles to one inch and produced in three colors. The mines are numbered in the table, and a corresponding number on the map indicates the exact location. One may find from this approximately how far he must go from any specified town or station to reach any particular mine, and may learn the location of railroads, roads, trails, etc.

The object of this publication is to give in as condensed and convenient form as possible, such information concerning the mines of California as is generally sought by intending investors or others interested, and to show the location of each mine in the respective counties.

Registers of all the counties of the State will be given to the public as soon as the work in each is completed and can be published.

It is earnestly requested, if any errors or omissions are noted, that the proper corrections will be sent at once to the State Mineralogist, State Mining Bureau, Union Ferry Building, San Francisco, Cal.

LEWIS E. AUBURY,
State Mineralogist.

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INYO COUNTY

THE area of Inyo County is 12,100 square miles, bounded on the west by the Sierra Nevada range; on the east by the State of Nevada; on the south by San Bernardino County; and on the north by Mono County. Starting from the snow-clad summits along its western edge, the county extends eastward into the rainless deserts of Nevada, and therefore possesses a marked variety of climate. The crest of Mount Whitney, on the western edge of the county, is 14,898 feet above ocean level—the highest point on the American continent—while Death Valley is 427 feet below sea level, the lowest depression on this continent.

The county lies in the western portion of what is known to geologists as the "Great Basin," and in the northern part of the ancient evaporated sea known as "Lake Aubury." The ranges east of the Sierras have a general direction from northwest to southeast, and are of the monoclinical structure characteristic of the Great Basin. Evidences of volcanic activity are common everywhere in the county. The mountains are all rich in valuable minerals, and the valleys phenomenally so in rare salines. The accompanying pages show the location and distribution of these minerals.

The population of Inyo County in 1900 was 4377. The mineral product in the same year was as follows: Gold, \$214,000; silver, \$114,000; antimony, \$700; lead, \$38,840; borax, \$13,900; soda, \$50,000; salt, \$5,000—Total, \$420,586. As the total assessed valuation of the county in the same year was \$1,885,336, the total value of the mineral product was 22 per cent. of the total assessed valuation of the county. Inyo at present leads all other counties of California in the production of soda and lead.

The development of the mineral resources has been retarded by the lack of railroad facilities. The gold mining started from the placer work. Quartz mining is steadily growing in importance. The county is especially rich in lead ores, carrying gold as well as silver. While the annual production of antimony has not yet reached importance, the mines of the Wild Rose District show quantities of this mineral. Silver mining was at one time an important industry, but at present the silver produced comes from the gold and lead ores.

The borax deposits of this county are very extensive, and the supplies of salt, both as deposits and as rock salt, are large.

Owens Lake is the largest producer of "Natural Soda" in the United States. Government experts have estimated that there are several millions of tons of carbonate and bi-carbonate of soda held in solution in the waters of the lake. Sulphate of soda is found in vast beds covering large areas in the "dry lakes" of the desert regions.

Over 35,000 acres of niter lands have been located in the southeastern portion of the county, but are as yet undeveloped.

Oil indications are favorable in Owens Valley, and natural gas has been discovered in a number of places around the lake. Hot springs are numerous. Notable among these are the geysers and mud springs of the Coso District.

One of the largest undeveloped copper belts of the State is that in Saline Valley, the ledges carrying also both gold and silver.

Marble from this county was used in the construction of the Mills Building in San Francisco. Large quarries of dolomite of fine quality await better transportation facilities.

Other minerals of commercial value which are known to exist in quantity are asbestos, barite, bismutite, iron, platinum, potters' clay, sulphur, and compounds of magnesia and manganese. The following jewelers' materials have been found: Chrysocholla, datolite, fluorite, garnet, quartz, grossularite, lepidolite, and obsidian.

REGISTER OF MINES AND MINERALS

	NAME OF MINE	NEAREST TOWN OR P. O.	LOCATION.				WHETHER PATENTED.	ELEVATION. <i>Feet.</i>	NUMBER OF VEINS.	WIDTH OF VEIN.	STRIKE.	DIP.	CHARACTER OF ORE.
			SECTION.	TOWNSHIP.	RANGE.	MAP No.							
1	Alabama	Ballarat				68	yes	8000	1	2	E & W	N	Silver
2	Alexander	Searles				17		5500	1	4	SE & NW	N	Gold, free milling, with sulphurets
3	Alta	Ballarat				31		4500	1	3	N & S	E	Gold and silver
4	Alvord	Big Pine				281		4400	1	4	N & S	W	Gold, free milling, with sulphurets
5	Annies	Keeler		16	38	179		8000	2	4-6	NW & SE	W	Silver and lead
6	Annie Bell	Reward				201		7000	1	2	E & W	N	Gold and carbonate of lead
7	Armaugh	Keeler		16	38	177	yes	8000	3	4-15	NW & SE	W	Silver
8	Anton & Pobst	"				81		5000	1	100	N & S	E	Malachite
9	April	Lone Pine		12	15	35		4250	2	7	E & W	S	Gold, free milling
10	Arrastra	Citrus			11	35		4300	1	2 to 4	N & S	Vert.	Gold, free milling, with sulphurets
11	August	Keeler			16	38	yes	8000	3	1	N & S	E	Gold, silver, copper and lead
12	Banner	Bishop				295		8640	1	3½	N & S	E	Silver and lead
13	Bernon	Darwin		13	19	40		5000	1	8	N & S	W	" " "
14	Beveridge	Lone Pine				193		5000	1	2	NE & SW	N	Gold and silver
15	Big Bill	Ballarat				41		6000	1	20	NW & SE	W	Gold, free milling
16	Bisbee	Lone Pine				192		7000	1	4	N & S	W	" " "
17	Black Bear	Ballarat				4		4000	1	3½	NE & SW	E	Gold and silver
18	Black Canyon	Bishop				285		6000	1	6	N & S	E	Silver and lead
19	Black Eagle	Citrus				228		5300	2	2	N & S	W	Gold, free milling
20	Black Metallic	Bishop				296		8640	2	4	N & S	E	Gold, silver and lead
21	Bluc Belle	Darwin				86		5000	2	1	NE & SW	E	Gold and silver
22	Bluc Bird	"				92		6000	1	2½	E & W	S	Gold, free milling
23	Blue Jay	Keeler				79		3000	1	60	N & S	E	Malachite, gold and silver
24	Blue Jay	Searles				12		5000	3	1	SW & NE	S	Gold, free milling
25	Blue Jay	Reward				204		7000	1	5	E & W	N	Gold and carbonate of lead
26	Bodie	Ballarat				5		4000	1	3	E & W	W	Gold and silver
27	Boer	Lone Pine				199		6000	2	2-4	N & S	W	Gold, free milling
28	Bonanza No. 1	Searles				9		5000	3	4	NW & SE		" " "
29	Bonanza No. 2	"				263		5000	1	5	NW & SE		" " "
30	Bonanza	Bishop				290		6750	1	5	NE & SW	W	Silver and lead
31	Bonanza Jim	"				282		5000	1	48	N & S	E	Gold, free milling
32	Boxer	Lone Pine				198		6000	1	1-8	N & S	W	" " "
33	Branch Mint	Darwin		19	40	106		6000	1	1-20	N & S	W	Silver and lead
34	Britannia	"		19	41	119		4800	1	10-20	N & S	W	Lead carbonate and sulphide
35	Bronco	Lone Pine				194		7000	2	4	E & W	N	Gold, free milling
36	Brown Monster	Reward				220		4500	1	6-8	N & S	E	Gold, silver and lead
37	Buffalo	Darwin				88		5000	1	2	NE & SW	E	Gold, with sulphurets
38	Bullion	Ballarat				54		3500	1	6-7	E & W	N	Lead
39	Bull Run	Keeler		16	38	181		8500	2	6-10	NW & SE	W	Silver and lead
40	Bunko	Ballarat				37		1500	2	6-30	N & S	E	Gold, free milling
41	Bushey	Keeler		16	38	183		9000	3	8-30	NW & SE	W	Silver and lead
42	California	"		16	38	182		8500	3	20-25	NW & SE	W	" " "
43	Carbonate	Darwin		19	40	121		4500	1	20	N & S	W	Lead
44	Carribo	"		19	40	117		4000	1	10	N & S	W	Silver and lead
45	Customer	Ballarat				32		4500	1	3	N & S	E	Gold and silver
46	Centurion	"				33		4500	1	3	N & S	W	" " "
47	Challenge	"				74	yes	6000	1	2	E & W	N	Silver
48	Chief of Hill	Lone Pine				208		7000	1	2	E & W	N	Gold, free milling
49	Christmas Gift	Darwin		19	40	104		5200	1	1-20	N & S	W	Silver, lead carbonate and sulphide
50	Chile	Keeler				154		7500	1	4	N & S	E	Gold and copper
51	Cleveland	Tinnemaha				266		500	2	1	N & S	W	Gold, free milling, and sulphurets
52	Cleveland	Independence		13	34	254		13500	1	2-5	NE & SW	W	Gold and silver
53	Clipper	Searles				13		5000	1	6	SW & NE	S	Gold, free milling
54	Columbia	Darwin		19	41	109		4400	1	1-10	N & S	W	Silver, lead carbonate and sulphide
55	Combination	Ballarat				44		4000	1	3	NE & SW	SE	Antimony

OF CALIFORNIA — QUARTZ MINES.

HANGING WALL	FOOT WALL	DEVELOPMENTS.					GREATEST DEPTH BELOW OUTCROP.	MILL.	POWER.	NUMBER OF MEN EMPLOYED.	COMPANY, OWNER OR SUPERINTENDENT		REMARKS.
		SHAFT.	INCLINE.	OPEN CUT.	TUNNEL.	DRIFTS.					NAME.	ADDRESS.	
Lime	Lime	40			40	40					W. E. Pedley	Riverside	1
Granite	Porphyry				167	85					Curlis & Andrada	Searles	2
Schist	Schist	30			100	30					Charles Anthony	Darwin	3
Slate	Granite	30			200	170	100				W. H. Uhlmeyer	Big Pine	4
Lime	Lime	200			800	170					George Hawley	San Francisco	5
Granite	Granite	40	50		200	500	40	arrastra	gasoline		Friederike Rhine	Independence	6
"	"				1000	200					Hanley & Wheeler	"	7
Lime	"				20	20					Anton & Pobst	Lone Pine	8
Quartzite	Quartzite				350	150				2	R. C. & F. Spear	"	9
Slate	Granite	150			125	40	150				Friederike Rhine	Independence	10
Lime	Lime	300		80	390	80	129			1	Chris Crohn	Cerro Gordo	11
Porphyry	Talc	96	90	140	80	112	72				S. P. Roberts	Bishop	12
Lime	Granite	125				200	125				Reddy Estate	San Francisco	13
Porphyry	"	50				50					Pobst & Johnson	Lone Pine	14
Quartzite	Schist				30	30					South Park Developmt Co.	GeoMontgomery, Supt	Independence
Granite	Porphyry	50			60	25					Louis Barnes & Davidson	Independence	16
Porphyry	Granite	100				100					A. G. Ducoming	Los Angeles	17
Lime	Lime				30	30					A. K. Briggs	Bishop	18
Porphyry	Quartzite	220	175			500	220	stamp	steam	15	Reward Gold Mining Co.	Reward	19
"	Slate			30		15		stamp	gasoline	2	W. J. Philliphay	Bishop	20
Lime	Granite	50			3000	250		stamp	gasoline		Morton Estate		21
Feldspar	Porphyry	70		17	165	70		stamp	oil		Cress & French	Ballarat	22
Lime	Granite	35			100	25	70				A. F. Mains	Independence	23
Granite	Porphyry	45				45					H. Austin	Elsinore	24
"	Granite		40		20	15	20				Friederike Rhine	Independence	25
Porphyry	"	150				150					Forbes & Co.	"	26
Granite	"	80			120	80					O. G. Freantes	Lone Pine	27
"	Porphyry	25	110		30	110					Curlis & Andrada	Searles	28
"	"	70				70					"	"	29
Porphyry	Slate	20	15			20					J. F. Wyatt	Bishop	30
"	"			50	220	110	120				Enloe & Yaney	"	31
Granite	Granite	80				40	80				O. G. Freantes	Lone Pine	32
Lime	Lime	150	175			750	150			1	N. S. Thompson	San Francisco	33
"	"	285				220	80				James Henry	Darwin	34
Granite	Granite	100		40	50	100					R. C. Spear	Lone Pine	35
Lime	Lime		560	250	1400	350					A. W. Eibeshutz	Independence	36
Granite	Granite	240			150	180					J. J. Gunn	"	37
Lime	Lime			40		15					J. La Moign	Ballarat	38
"	"	30			75	80					Patrick Clinton	Cerro Gordo	39
Diorite	Granite				300	200					KingsCon. Mng. & Mill'g Co	Ballarat	40
Lime	Lime	40			300	250					E. R. Hamilton	Cerro Gordo	41
"	"	40			85	60					Clinton & Hamilton	"	42
"	"		150	30		50	120				Chas. R. Bradford	Darwin	43
"	"	60		100	80	60					McDonald & Cathery	"	44
Schist	Schist	70				70					Chas. Anthony	"	45
Quartzite	Lime	50				50	50				"	"	46
Lime	"				70	75					W. E. Pedley	Riverside	47
Granite	Granite				100	125					James A. Jenkins	Independence	48
Lime	Lime	300	250			500	250				James A. McKenzie	Darwin	49
"	"	50			210	50					John Knuipple	Cerro Gordo	50
Granite	Granite		400	150	500	150					Tracey & Stewart	Big Pine	51
"	"				180	45	90				Henry Levy	Independence	52
"	Porphyry	30				30					H. Austin	Elsinore	53
Lime	Lime		115	50		95					McKenzie & Gould	Darwin	53
Schist	Quartzite			150	25	10					A. W. Eibeshutz	Independence	55

In the 4 mines comprising this group there is 840 ft. of anti-mony ore exposed from 2 to 8 to 1 to 3 ft. wide, high grade ore

	NAME OF MINE.	NEAREST TOWN OR P. O.	LOCATION.				WHETHER PATENTED.	ELEVATION. <i>Feet.</i>	NUMBER OF VEINS.	WIDTH OF VEIN.	STRIKE.	DIP.	CHARACTER OF ORE.
			SECTION.	TOWNSHIP.	RANGE.	MAP No.							
56	Comstock	Ballarat				71	yes	7500	1	2	E & W	N	Silver
57	Comstock	"				25		6000	1	4-6	NW & SE	SW	Gold, free milling
58	Condence	Citrus				235		5000	12	2-6	NE & SW	W	Silver and lead
59	Congress	Ballarat				60		7000	2	4	N & S	W	Gold, free milling
60	Cooper	"				35		7500	2	3	N & S	E	" " "
61	Copper Bottom	Citrus				248		4200	1	1	N & S	E	Copper
62	Copper King	Keeler				148		4500	1	4	N & S	E	" " "
63	Copper King	"				80		5000	1	100	N & S	E	Malachite
64	Copper Queen	Citrus				247		4500	1	4	N & S	W	Gold, silver and copper
65	Corona	Searles				16		6000	2	6	SE & NW	W	Gold, free milling
66	Crown Point	Bishop				289		6750	1	3	NE & SW	E	Gold, silver and lead
67	Curran	Ballarat				61		6000	1	2	N & S	W	Gold, free milling
68	Custer	Darwin	19	40		97		4100	1	12	NE & SW	W	Galena and carbonate
69	Daisy Belle	Searles				15		5000	1	3	SW & NE	S	Gold, free milling
70	Dane	Ballarat				57		5000	1	3	N & S	E	Silver
71	Davis	Lone Pine	15	35		214		5500	2	1-1½	SE & NW	Vert.	Gold, free milling
72	December	"				197		4000	7	1½	N & S	W	" " "
73	Defiance	Darwin	13	19	40	110	yes	4500	3	20	N & S	W	Silver and lead
74	Dewey	Bishop				294		8640	1	4½	N & S	E	" " "
75	Driver	Darwin	13	19	40	111	yes	4500	2	6	N & S	W	" " "
76	Donna Belle	Searles				8		5000	1	3	NW & SE	S	Gold, free milling
77	Durango	Ballarat				6		4000	1	1	N & S	E	Gold and silver
78	East Lake	Big Pine				279		4700	1	1	NW & SE	NE	Silver and sulphurets
79	East Palma	Keeler	16	38		174		7500	1	10	NW & SE	W	Gold and copper
80	Ella	"	16	38		155		8000	2	4	N & S	E	Gold, silver, galena and copper
81	Elephant	Ballarat				24		6000	1	6	NW & SE	SW	Gold, free milling
82	Empire	Darwin				128		5500	1	1-30	E & W	N	Silver and lead
83	Enterprise	Independence				257		11000	1	8-10	E & W	N	Gold, silver and lead
84	Essex No. 1	Darwin	13	19	40	114		4500	1	4	N & S	W	Silver and lead
85	Essex No. 2	"	13	19	40	115		5000	1	3	N & S	W	" " "
86	Ethel	"				140		5000	3	4	N & S	E	Gold, free milling
87	Eureka	Ballarat				67	yes	6300	1	3	E & W	N	Silver
88	Eureka	Keeler				82		3500	1	6	N & S	E	Malachite
89	Eureka	Independence	32	11	35	262	yes	5000	1	2½	N & S	E	Gold, free milling
90	Excelsior	Bishop				292		8680	7	1-8	N & S	W	Gold, silver and lead
91	Flagstaff	Keeler				149		6000	4	3-4	N & S	W	Silver and lead
92	Garibaldi	Ballarat				55		5000	1	5	N & S	E	Silver
93	Gen. E. Lee	"				26		6500	1	5	NE & SW	S	Gold, free milling
94	Georgia	Bishop				283		7000	1	1½	N & S	E	" " "
95	Gleuford	Keeler	16	38		161		7000	6	4-25	N & S	Vert.	Gold, silver and lead
96	Gold Bug	Tinnemaha				268		4800	1	4	E & W	S	" " " " with sulphurets
97	Gold Bug	"	34	10	34	273		4500	2	2	N & S	E	Gold and silver
98	Gold Note	Ballarat				40		4500	1	2	N & S	W	Gold, free milling
99	Gold Point	Searles				10		5000	1	2½	NW & SE	S	" " "
100	Gold Ridge	Darwin	20	41		101		4000	1	2	E & W	S	" " "
101	Good Thing	"	20	40		137		7000	5	1-2	NW & SE	N	" " "
102	Golden Eagle	Citrus				234		7000	1	7	N & S	Vert.	" " "
103	Golden Eagle	Tinnemaha				287		6000	1	2	N & S	W	" " "
104	Golden Eagle	Bishop				270		6750	1	4	NE & SW	W	Gold, silver and lead
105	Golden Age (Group)	Johannesburg				368		3875	1	60-125	E & W		Porphyretic quartz
106	Golden Gate	Independence	13	34		253	yes	10000	1	3	N & S	W	Gold and silver
107	Golden Horn	Keeler	16	38		172		7500	1	10	NW & SE	W	Silver and lead
108	Golden Leaf	"	16	38		173		7500	1	10	NW & SE	W	Gold and copper
109	Golden Treasure	Ballarat				7		4000	1	3	N & S	E	Gold and silver
110	Gem	Bishop				286		6750	1	3	NE & SW	E	Gold, silver and lead

HANGING WALL	FOOT WALL	DEVELOPMENTS.					GREATEST DEPTH BELOW OUTCROP.	MILL.	POWER.	NUMBER OF MEN EMPLOYED.	COMPANY, OWNER OR SUPERINTENDENT		REMARKS.
		SHAFT.	INCLINE.	OPEN CUT.	TUNNEL.	DRIFTS.					NAME.	ADDRESS.	
Lime	Lime	60					60				W. E. Pedley	Riverside	56
Schist	Diorite				50		25				South Park Developm't Co	Ballarat	57
Lime	Lime	40			825		125				F. E. Densmore	Independence	58
Porphyry	Quartzite	160	210			30	160				J. E. Curron	Panamint	59
Syenite	Porphyry				200	50	80	stamp	steam	7	Jas. F. Cooper (Supt.)	Ballarat	60
Lime	Granite	30		15			30				May Fansel	Independence	61
"	Lime						10				James A. Jenkins	"	62
"	Granite	60			20		60				W. A. Sanger	Big Pine	63
"	Syenite	40					40				J. C. Roeper	Independence	64
Granite	Porphyry	90					90				George Vronberg	Searles	65
Porphyry	Slate	40	20				40				J. T. Wyatt	Bishop	66
"	Granite	50	40		40		50				J. E. Curran	Panamint	67
Lime	Porphyry	275			200	200	170				Gorman & Anthony	Independence	68
Granite	"				100		100				H. Austin	Elsinore	69
Porphyry	Lime	40	50			60	40				Frank Kennedy	Darwin	70
Serpentine	Porphyry	80		100	180	320	80				Bansen	Independence	71
Quartzite	Quartzite			75	300		80				R. C. Spear	Lone Pine	72
Lime	Granite		400		600	6000	600				Reddy Estate	116 Crocker Bldg., S. F.	73
Porphyry	Talc	115	85	50	323	164	115				S. P. Roberts	Bishop	74
Lime	Granite				300	250	200				Reddy Estate	116 Crocker Bldg., S. F.	75
Granite	Porphyry			30	35		30				Curlis & Andrada	Searles	76
Porphyry	"	150					150				Smith & Co.	Los Angeles	77
"	Lime			60			20				Coc & Eldred	Big Pine	78
Lime and slate	Lime and slate	25			30		20				Hawley & Wheeler	San Francisco	79
Lime	Lime	55		60	700	60	400				Chris Crohn	Cerro Gordo	80
Syenite	Porphyry				100		50				South Park Developm't Co	Ballarat	Geo. Montgomery, Supt, Independence
Lime	Lime	225				800	75				Moore, Strong & Woodin	Independence	82
Granite	Granite	30		50		30	30				S. A. Fraser	"	83
Lime	"				500	800	250				Reddy Estate	116 Crocker Bldg., S. F.	84
"	"	125		100		200	125				"	"	85
Granite	Quartzite	24		20	200	8	60				David Cole	Darwin	86
Lime	Lime			50	40	50	70				W. E. Pedley	Riverside	87
"	Granite	90				150	90				Jacob Steninger	Grape Vine	88
Granite	Porphyry				75		50				Estate R. W. Chambers	San Francisco	89
Porphyry	Talc and slate	20			35		20				J. M. Heiskell	Bishop	90
"	Lime	150	150	60	260	60	150			3	F. P. Meysan	Lone Pine	91
Lime	Porphyry	80			150		80				Charles Anthony	Darwin	92
Syenite	Syenite				40		40				South Park Developm't Co	Ballarat	93
Granite	Granite		150	150	425		200				George F. Willis	Independence	94
Quartzite	Lime	36			25	40	36				R. W. Troeger	308-Grand av., Los Ang, Cal	95
"	"	180			1600	60	100				David Wendling	Tinnemaha	96
Porphyry	Porphyry	60			100		60	1	water		Peterson & Co.	"	97
Syenite	Schist		50	100		100	50				Geo. Montgomery (Supt.)	Independence	98
Granite	Porphyry	25					25				Austin & Hunt	Elsinore	99
"	Granite	60			200		60				Mrs. T. Fitzgerald	Tonopah, Nevada	100
"	"	75	65		150		65				Baxter & Co.	Independence	101
Porphyry	Lime	40		32		30	40				Cantier & Barnes	"	102
"	Porphyry				360		130				J. D. Jones	Tinnemaha	103
Granite	Slate	30	20				30				J. T. Wyatt	Bishop	104
"	Porphyry	120			120		180		gasoline	20	Dean & Jones Mining Co.	State Range	Thirteen full claims. Order just given for a 100-ton crushing and cyaniding plant.
Granite	Granite	30			500		50				Virginia Consolidated Co.	San Francisco	106
Lime and slate	Lime and slate	40			50		40				Hawley & Wheeler	"	107
"	"	40			30		40				"	"	108
Porphyry	Porphyry	75					75				Sandy McDonald	Ballarat	109
"	Slate	15	20				15				J. F. Wyatt	Bishop	110

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NAME OF MINE.	NEAREST TOWN OR P. O.	LOCATION.				WHETHER PATENTED.	ELEVATION.	NUMBER OF VEINS.	WIDTH OF VEIN.	STRIKE.	DIP.	CHARACTER OF ORE.
		SECTION.	TOWNSHIP.	RANGE.	MAP No.							
111 Green Monster	Citrus				244	yes	4500	1	20	NW & SE	W	Gold, silver and copper.
112 Granite Butte	Citrus				239		5000	1	2	SW & NE	Vert.	Gold, free milling.
113 Guadalupe	Lone Pine				187		8000	2	2-6	N & S	W	" " "
114 Guimas	Keeler		16	38	170		8000	1	6	W	SW	Silver and lead.
115 Hard Scrabble	Tinnemaha	34	10	34	272		4500	4	2-3	N & S	E	Gold and silver.
116 Hard Tack	Lone Pine				189		7000	3	3	N & S	W	Gold, free milling.
117 Hemlock	Ballarat		21	45	65		6500	1	5	E & W	S	Silver.
118 Henry Clay	Independence				238		7500	2	1-10	N & S	E	Gold and silver.
119 Hill Top	Ballarat				42		6000	1	4	NE & SW	SW	Gold, free milling.
120 Hold Out	Darwin		19	40	133		5000	4	1-5	SW	NW	Gold, lead and copper.
121 Hudson River	Ballarat		20	45	76		8000	1	4	E & W	N	Silver.
122 Ida	"				75	yes	7300	1	3	E & W	N	"
123 Ignacio	Keeler				166		8000	1	8-10	N & S	E	Gold and silver.
124 Independence	Ballarat				73		7000	1	5	E & W	N	Silver.
125 Independence	Darwin	11	19	40	113		5000	2	30	N & S	W	Silver and lead.
126 Index	Bishop				293		8560	10	5½	N & S	W	Gold, silver and lead.
127 Iron King	Keeler				173		5000	3	20	N & S	E	Gold and silver.
128 Jackass	Darwin	13	19	40	135		4500	1	6	NW & SE	W	Silver, sulphide and carbonate lead.
129 Jacobs Wonder	Ballarat				67	yes	6500	1	5	E & W	S	Silver.
130 John Davis	"				22		6000	1	15	NW & SE	SW	Gold, free milling.
131 Josephine	Darwin				144		6000	2	1-4	NW	SW	" " "
132 Jumbo	Independence				237		7500	1	10	N & S	E	Gold and silver.
133 Jumper	Darwin				94		5500	1	1½	E & W	S	Gold, free milling.
134 Kearsarge	Independence				255		9000	1	150	NE & SW	W	Gold and silver.
135 Kearsarge	Darwin	13	19	41	118		4000	1	6	N & S	W	Silver and lead.
136 Kelley	Reward				202		7000	1	4½	NE & SW	W	Gold, carbonate of lead.
137 Kennedy	Ballarat				58		5000	1	2	N & S	E	Lead.
138 Kennedy	"				46		4000	1	3	NW & SE	NE	Antimony.
139 Keyes	Reward				243		7800	2	1½	NW & SE	NE	Silver and lead.
140 Key Not	Lone Pine				186		8000	1	1-4	N & S	W	Gold, free milling.
141 Keystone	Independence		13	34	252	yes	10000	1	4	N & S	W	Gold and silver.
142 Kingman	Darwin	13	19	40	132		5000	1	50	SE	W	Gold, silver and copper.
143 Kings Consolidated, No. 1	Ballarat				38		1500	1	140	N & S	E	Gold, free milling.
144 Kings Consolidated, No. 2	"				39		1500	1	140	N & S	E	" " "
145 Kittening	Lone Pine	12	15	35	212		4000	3	1½	E & W	S	" " "
146 Lafayette	Ballarat				52		3500	3	7	N & S	E	Lead.
147 Lake View	Keeler				167		8000	2	20	N & S	E	Gold, free milling.
148 Landmark	Keeler				153		4800	1	1	E & W	N	Silver and lead.
149 Lane and Last Chance	Darwin	13	19	40	107	yes	4000	1	15-20	NE & SW	N	Gold, silver, lead and copper.
150 Last Chance	"		21	41	102		5000	1	2	NE & SW	E	Gold and silver.
151 Laverce	Lone Pine	12	15	35	211		5000	2	1	E & W	S	Gold, free milling.
152 Lee	Manse, Nevada		20	8	3			6	3-15	NW & SE	E	Gold, silver and galena.
153 Legal Tender, No. 1	Reward				223		5000	2	4	N & S	E	Gold, silver, lead and copper.
154 Legal Tender, No. 2	"				225		5000	2	3	N & S	E	" " "
155 Lister	Independence		13	34	250	yes	10000	1	4	N & S	W	Gold and silver.
156 Little Chief	Ballarat				70	yes	6000	1	3	E & W	N	Silver.
157 Lucky Bill	Darwin		19	40	120		4500	1	15	N & S	W	Silver, lead and copper.
158 Lucky Jim	"		19	40	103		5200	1	50	N & S	W	Silver, lead, carbonate and sulphide.
159 Mammoth	Ballarat				27		6400	1	5	NE & SW	S	Gold, free milling.
160 Mammoth	Darwin				139		5000	1	300	N	E	Gold.
161 Manila	Lone Pine				207		6000	2	2-8	E & W	Vert.	Gold, free milling.
162 Mariposa	Darwin		20	40	146	yes	7000	5	1-2	NW & SE	N	" " "
163 Mary Ann	Searles				11		5000	1	3	NW & SE	S	" " "
164 Mascot	Citrus				233		5000	4	2-10	NW & SE		Gold, silver, galena and carbonate of lead.
165 Maxim	"		11	35	259		4500	1	6-8	N & S	Vert.	Gold, free milling.

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	NAME OF MINE.	NEAREST TOWN OR P. O.	LOCATION.				WHETHER PATENTED.	ELEVATION. <i>Feet.</i>	NUMBER OF VEINS.	WIDTH OF VEIN.	STRIKE.	DIP.	CHARACTER OF ORE.
			SECTION.	TOWNSHIP.	RANGE.	MAP No.							
166	May	Lone Pine					196	2	3	E & W	N	Gold and silver	
167	Mayday	Darwin	13	19	40		136	2	3-7	E & W	N	Gold, silver and copper	
168	Merry Christmas	"					91	2	1	E & W	N	Gold, free milling	
169	Mineral Hill	Ballarat					47	1	45	SE & NW	S	" " "	
170	Mineral Ranch	"					48	1	2	SE & NW	S	" " "	
171	Modock	Darwin		19	42		99	5	5-20	N & S	W	Silver and lead	
172	Monarch	Ballarat					43	1	3-8	NE & SW	SE	Antimony	
173	Monterey	Darwin	13	19	40		131	1	6	SE	W	Gold, silver and copper	
174	Montezuma No. 1	Big Pine					276	1	16	NW & SE	NE	Gold, silver and lead	
175	Montezuma No. 2	"					277	1	1	NW & SE	NE	" " " "	
176	Montezuma No. 3	"					278	1	6	NW & SE	NE	" " " "	
177	Monopoly	Ballarat					45	1	2	NE & SW	SE	Antimony	
178	Morning Star	Keeler		16	38		158	4	4-25	N & S	Vert.	Gold, silver and lead	
179	Narragansett	Ballarat		21	45		63	2	3	N & S	E	Lead	
180	Navajo Chief	Keeler					83	1	5	N & S	E	Malachite	
181	New Century	Ballarat					30	1	3	NE & SW	E	Gold, free milling	
182	Nemesis	Keeler		16	38		175	1	6	NW & SE	W	Silver and lead	
183	New Euterprise	"		16	38		171	1	8	NW & SE	W	" " "	
184	Newtown	"		16	38		169	1	5	W	SW	" " "	
185	New York	Independence					221	1	5	N & S	E	Gold, free milling	
186	New York	Lone Pine					190	1	2-6	N & S	W	" " "	
187	Ninety-Eight	Darwin					138	1	30	N & W	NE	" " "	
188	Ninety-Eight	"					145	4	4	N & W	NE	" " "	
189	Olive Branch No. 2	"		19	40		122	1	5	N & S	W	Silver, lead, carbonate and sulphide	
190	Owl	Keeler		16	38		164	1	5	N & S	E	Silver and lead	
191	Owl	Darwin					89	1	1 1/2	E & W	S	Gold, silver and lead	
192	Palma	Keeler		16	38		184	4	10-30	NW & SE	W	Gold	
193	Phillippine	Lone Pine					206	1	2 1/2	E & W	Vert.	Gold, free milling	
194	Phoenix	Darwin		19	40		105	1	1-30	N & S	W	Silver, lead, carbonate and sulphide	
195	Pittsburg	"					130	1	2	E & W	N	Silver and lead	
196	Porter	Lone Pine					195	1	3	E & W	N	Gold and silver	
197	Poleta	Bishop		7	34		297	1	1	NW & SE	NE	Gold, free milling	
198	Post Office	Ballarat					18	1	2	N & S	E	" " "	
199	Protean	Tinnemaha					271	1	1	N & S	W	Gold, with sulphurets	
200	Queen	"					269	2	1	N & S	W	Gold, free milling and sulphurets	
201	Ragged Edge	Keeler		16	38		163	1	6	N & S	E	Lead	
202	Rateliff	Ballarat					29	1	1-30	NW & SE	SW	Gold, free milling	
203	Read	Bishop					291	1	30	N & S	E	Gold, silver and lead	
204	Red Bird	Reward					203	1	3	E & W	N	Gold, carbonate of lead	
205	Red Rock	Darwin					80	2	1	NE & SW	E	Gold and silver	
206	Reward	Reward		14	36		218	2	6	N & S	E	Gold, free milling, with sulphurets	
207	Rex	"					227	2	5	NE & SW	W	Gold, free milling	
208	Rex	Darwin		18	39		126	1	5	N & S	W	Silver, lead, carbonate and sulphide	
209	Rex Montis	Independence					256	3	1 1/2-3	NE & SW	Vert.	Gold and silver	
210	Richardson	Darwin	13	19	40		134	5	1-7	SW	NW	Gold, silver and lead	
211	Rising Sun	Keeler		16	38		159	1	2	N & S	Vert.	" " " "	
212	Roosevelt	Darwin		19	40		123	1	5	N & S	W	Silver, lead, carbonate and sulphide	
213	Rose Bud	Bishop					288	1	2	NE & SW	E	Silver and lead	
214	Rozetta	Darwin					127	2	3	NW & SE	E	" " "	
215	San Leon	"					143	2	3	NW	SW	Gold	
216	San Leonardo	"					142	1	4	SE	NE	Gold and sulphurets	
217	Sailor Boy	Citrus					245	2	2-5	NW & SE	W	Gold, silver and copper	
218	Schroeder	Lone Pine		15	35		213	1	3	SE & NW	Vert.	Gold, free milling	
219	Senator	Independence		11	35		261	1	3	N & S	E	" " " "	
220	Setting Sun	Keeler					147	1	3	SE & NW	W	Silver, lead and copper	

HANGING WALL	FOOT WALL	DEVELOPMENTS.						GREATEST DEPTH BELOW QUICROP.	MILL.	POWER.	NUMBER OF MEN EMPLOYED.	COMPANY, OWNER OR SUPERINTENDENT		REMARKS.	
		SHAFT.	INCLINE.	OPEN CUT.	TUNNEL.	DRIFTS.	NAME.					ADDRESS.			
Granite	"	30	60	25	75						R. C. Spear	Lone Pine		166	
Porphyry	Lime	25		50	50						Charles Richardson	Darwin		167	
Feldspar	Porphyry		80	25	30				oil	2	John Cyty	Ballarat		168	
Serpentine	Schist				120	25	70	1	steam	16	Mineral Hill G Mng. & Mill'g Co	"	This mine has a 6400-foot overhead tram-	169	
"	"			40	15						"	"	[way; also a cyanide plant.	170	
Lime	Lime	600	200		3000	1000	1000	2	furnaces	steam	Modock Con. Co.	Mills Building, S. F.	With this mine are 4 others; nearly all de-	171	
Schist	Quartzite			500	35					4	A. W. Eibeshutz	Independence	[velopment work confined to the Modoc	172	
Lime	Lime	103					103				Charles Richardson	Darwin		173	
"	Lime and slate	45	160		500	150	300	rolls	steam	5	J. E. Nolan	Big Pine		174	
"	"			20	50		30				"	"		175	
"	"			20	300		30				"	"		176	
Schist	Quartzite			160			30				A. W. Eibeshutz	Independence		177	
Quartzite	Lime	100	110	50	600	250	350				R. W. Troeger	308 S. Grand av., Los An		178	
Lime	"	106	170				150				J. E. Curran	Panamint		179	
"	Granite	80					100				Grant & McConnell	Independence		180	
Shale	Schist		40	20	20		40				C. H. Tyler	Ballarat		181	
Lime	Lime	100			300		80				Hawley & Wheeler	San Francisco		182	
"	"	100			300		170				"	"		183	
"	"	400			700		400				Hanley & Yerrington	"		184	
"	"	15			60		40				Irwin & Keyes	Independence		185	
Granite	Porphyry				50		20				Lewis & Eibeshutz	"		186	
"	Granite		150				150				98 Mining Co. & Cole	Darwin		187	
"	Porphyry	35	150				60				Cram & Cole	"		188	
Lime	Lime	65	48	50			65				James A. McKenzie	"		189	
"	"	120	100		300	100	120				Thomas Boland	Keeler		190	
Porphyry	"	75	60				75				John Cyty	Ballarat		191	
Lime	"				400	1200	175				George Hanley	San Francisco		192	
Granite & porphyry	Granite & porphyry				350		150				Charles H. Reynolds	Lone Pine		193	
Lime	Lime		340				175			2	H. Dutard Estate	San Francisco		194	
"	"	425		10			225				Moore, Strong & Woodin	Independence		195	
Granite	Granite		325	60		145	450				Hunter Estate	Thebc		196	
Lime	Lime		700		800	483	800	1	water	6	Millner & Farrington	Bishop		197	
"	Schist			40			15				Charles Anthony	Darwin		198	
Porphyry	Porphyry	40					40				J. D. Jones	Tinnemaha		199	
Granite	Granite				750		150				Hill & Crosby	Big Pine		200	
Lime	Porphyry				120	800	80				Thomas Boland	Keeler		201	
Quartzite	Syenite		400		650	700	450	1	steam	40	Ratcliff Gold Mining Co.	Ballarat		202	
Porphyry	Slate	30		30	500	40	400				Horton, Harber & Dunn	Bishop		203	
Granite	Granite				105	100	50	1			Friederike Rhine	Independence		204	
"	"		90		500		150	1	gasoline	2	Morton Estate	Keeler		205	
Lime	Lime and granite		400			2000	600	1	steam	40	Reward Gold Mining Co.	Reward	At this mine is a cyanide plant and an ele-	206	
Porphyry	Diorite	100			70		80				McIver & Barnes	"	[vated tramway one mile in length.	207	
Lime	Lime	95				25	95				M. S. McKenzie	Lone Pine		208	
Granite	Porphyry	150			1300		500				O. I. Mairs	Independence		209	
Lime	Lime	62					50				Charles Richardson	Darwin		210	
Quartzite	"				120		55				R. W. Troeger	308 S Grand av., Los Angeles		211	
Lime	"	50	50	65			75				Anthony & McKenzie	Darwin		212	
Porphyry	Slate	50		20			50				J. T. Wyatt	Bishop		213	
Lime	Granite		30	20			15				P. J. Ginser	Ballarat		214	
Granite	Porphyry	60					60				Cram, Bernard, Forster	Darwin		215	
Porphyry	Slate	100			175	90	100				"	"		216	
"	Lime	100		75	300		50				J. C. Roeper	Independence		217	
Lime	"	160		100	45	18	120	arrastra	water		Friederike Rhine	"		218	
Granite & porphyry	Granite, slate				150		60				Estate R. W. Chambers	San Francisco		219	
Granite	Porphyry			40	100		75				James A. Jenkins	Independence		220	

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		SECTION.	TOWNSHIP.	RANGE.	MAP No.							
221 Shady	"		16	38	157		8000	1	2	N & S	Vert.	Gold, silver and lead.....
222 Shamrock	"		16	38	180		8500	1	15	NW & SE	W	Silver and lead.....
223 Silver Baud	Darwin.....		20	41	124		4500	1	5-15	N & S	Vert.	Silver, lead carbonate and sulphide.....
224 Silver Hill	Citrus.....				246		4500	1	3	NW & SE	W	Gold, silver and copper.....
225 Silver Mountain.....	Olancha.....				141		6000	1	3	N & S	E	Silver.....
226 Silver Star.....	Ballarat.....				56		5000	1	1-3	N & S	E	"
227 Sioux.....	Lone Pine.....	12	15	55	209		4500	1	1	E & W	S	Gold, free milling.....
228 Skyrocket	Darwin.....				93		6000	1	2	E & W	S	"
229 Standard.....	"				87		5000	1	2	NE & SW	E	Gold and silver.....
230 Stanley.....	Reward.....				242		7800	2	3	NW & SE	NE	Gold, silver and lead.....
231 Star	Ballarat.....				23		6000	1	2	NW & SE	SW	Gold, free milling.....
232 Star	"				72	yes	7000	1	2	E & W	N	Silver.....
233 Star	Keeler.....				78		5000	1	60	N & S	E	Malachite.....
234 Stewards Wonder.....	Ballarat.....		21	45	66		6500	1	5	E & W	S	Silver.....
235 St. Andrew.....	Darwin.....				125		6000	1	1-30	N & S	W	Silver, lead, carbonate and sulphide.....
236 St. John.....	"		19	42	98		3000	1	3	N & S	W	Silver and lead.....
237 St. Joseph.....	Lone Pine.....				200		6000	1	1-3	N & S	W	Gold, free milling.....
238 St. Louis.....	Darwin.....				129		5500	1	1-30	E & W	N	Silver and lead.....
239 St. Patrick.....	Ballarat.....				34		7500	1	3	NW & SE	E	Gold, free milling.....
240 Swansea Chief.....	Keeler.....				165		4500	1	6	N & S	W	Silver and lead.....
241 Summit No. 2.....	"		16	38	178	yes	8000	3	4-15	NW & SE	W	Silver.....
242 Sunset.....	"		16	38	160		7000	2	6	N & S	Vert.	Gold, silver and lead.....
243 Swansea Belle.....	"				152		3500	2	2-8	N & S	E	Carbonate of lead and silver.....
244 Tecopah.....	Manse, Nev.....		20	8	1			8	3-15	NW & SE	E	Gold, silver and galena.....
245 Telescope.....	Citrus.....				236		5500	1	4-6	NE & SW	W	Gold, free milling.....
246 Tip Top.....	Lone Pine.....				191		7000	1	4	N & S	W	"
247 Tip Top.....	Tinnemaha.....				264		5000	1	2	E & W	N	"
248 Tuber.....	Ballarat.....				50		4000	5	4-25	N & S	E	"
249 Tombstone.....	Tinnemaha.....				274		5050	2	2-6	E & W	S	Gold, free milling, with sulphurets.....
250 Tom Kelley.....	Reward.....				205		7000	1	2	E & W	N	Gold and carbonate of lead.....
251 Ulida.....	Keeler.....				77		6000	1	4	N & S	E	Malachite, gold and silver.....
252 Umpire.....	Ballarat.....		21	45	62		8500	2	4	N & S	N	Gold, free milling.....
253 Union.....	Reward.....	14	14	36	240		5800	1	6-30	E & W	S	Gold and silver.....
254 Union.....	Keeler.....		16	38	162	yes	8500	5	100	N & S	E	Lead.....
255 Union Con.....	Bishop.....				284		7000	3	7	N & S	E	Silver and lead.....
256 Valencenana.....	Searles.....				14		5000	1	20	SW & NE	S	Gold, free milling.....
257 Ventura.....	Keeler.....		16	38	176	yes	7500	1	9	NW & SE	W	Silver and lead.....
258 Virginia Lode.....	Independence.....		13	34	249	"	10000	1	3	N & S	W	Gold and silver.....
259 Wall St.....	Reward.....				226		5000	1	3	N & S	E	Gold, silver, lead and copper.....
260 Washington.....	Ballarat.....				53		3500	1	12-23	N & S	E	Lead.....
261 Wasting.....	Lone Pine.....				151		4000	7	1-12	E & W	N	Gold, free milling.....
262 West Virginia.....	Independence.....		13	34	251	yes	10000	1	2	N & S	W	Gold and silver.....
263 White Hill.....	Reward.....				241		7800	3	2	NW & SE	NE	Silver, lead and copper.....
264 White Horse.....	"				222		4600	1	5	E & W	N	Gold, free milling.....
265 Worldbeater.....	Ballarat.....				241		7800	3	2	NW & SE	NE	Silver, lead and copper.....
266 Wyoming.....	"		21	45	64	yes	6500	1	5	E & W	S	Silver.....
267 Yoco.....	Keeler.....				90		4200	2	14	E & W	S	Gold and silver.....

HANGING WALL	FOOT WALL.	DEVELOPMENTS.					GREATEST DEPTH BELOW OUTFROP.	MILL.	POWER.	NUMBER OF MEN EMPLOYED.	COMPANY, OWNER OR SUPERINTENDENT		REMARKS.
		SHAFT.	INCLINE.	OPEN CUT.	TUNNEL.	DRIFTS.					NAME.	ADDRESS.	
Lime.....	Lime.....	80			150	80				Chris Crohn.....	Keeler.....	221	
Porphyry.....	Slate.....	40			60	60				Patrick Clinton.....	Cerro Gordo.....	222	
Lime.....	Lime.....	300				400	130			James Henry.....	Darwin.....	223	
Syenite.....	".....				75	50				J. C. Roeper.....	Independence.....	224	
Porphyry.....	Porphyry.....	200	5			200				Joseph Waterman.....	San Jose.....	225	
Lime.....	".....	70			150	70				Chas. Anthony.....	Darwin.....	226	
Porphyry.....	Porphyry & granite.....			90	200	100				James Sharp.....	Independence.....	227	
Feldspar.....	Porphyry.....	38		30		38				Cress & French.....	Ballarat.....	228	
Granite.....	Granite.....	12		20	50	12				Estate J. J. Morton.....	Keeler.....	229	
Syenite.....	Lime.....	110				400	100			A. M. Strong.....	Independence.....	230	
Lime.....	Porphyry.....		120			300	125			South Park Developm't Co	Ballarat.....	231	
".....	Lime.....	50				20	50			W. E. Pedley.....	Riverside.....	232	
".....	Granite.....	60					30			Gustav Sanger & Son.....	Big Pine.....	233	
".....	Lime.....				600		350			W. E. Pedley.....	Riverside.....	234	
".....	".....	450				750	300			Samual Thomas.....	Darwin.....	235	
".....	".....	500	175	200	3000	300	300		12	J. J. Gunn.....	Independence.....	236	
Granite.....	Granite.....				110	40	100			Jose M. Caynas.....	Lone Pine.....	237	
Lime.....	Lime.....	20				20				Moore, Strong & Woodin.....	Independence.....	238	
".....	".....	70				60	70			Callaway & Finley.....	Ballarat.....	239	
Lime.....	Lime.....	220		50		200	200			Thomas Boland.....	Keeler.....	240	
".....	".....	50			300		100			Hawley & Wheeler.....	San Francisco.....	241	
Quartzite.....	".....				120		70			R. W. Troeger.....	308 S Grand av., Los Angeles	242	
Lime.....	".....	170				35	110			Hand & Edwards.....	Lone Pine.....	243	
".....	".....							smelter	steam	J. W. Osborne.....	Daggett.....	244	
Granite.....	Lime.....				150		40			Reward Gold Mng. Co.....	Reward.....	245	
".....	Porphyry.....		60				30			L. D. Lewis.....	Independence.....	246	
".....	Granite.....	300		50	750		250	arrastra	water	A. K. Engley.....	Big Pine.....	247	
Schist.....	Schist.....	470			300	400	250	1	steam	Tuber Mining Co.....	Ballarat.....	248	
Granite.....	Granite.....	300	123		700	300	300	arrastra	water	G. B. Cornetti.....	Tinnemaha.....	249	
".....	".....				32	25	30			Friederike Rhine.....	Independence.....	250	
Granite.....	Granite.....				300		100			Spear Bros. & Hunter Estate	Lone Pine.....	251	
Lime.....	Lime.....	40	30		35		40			J. E. Curran.....	Panamint.....	252	
Slate and schist.....	Shale and schist.....	60	150	20			60			Hall & Skinner.....	Reward.....	253	
Porphyry.....	Lime.....	3000	2000	500	3500	4000	900	hoistg engne	steam	Union Co.....	Carson City, Nev.....	254	
Slate & porphyry.....	".....	70				20	70			A. K. Briggs.....	Bishop.....	255	
Porphyry.....	Porphyry.....	70		20			70			H. Austin.....	Elsinore.....	256	
Lime and slate.....	Lime and slate.....				200		150			Hawley & Wheeler.....	San Francisco.....	257	
Granite.....	Granite.....	50			300		50			Virginia Consolidated Co.	".....	258	
Lime.....	Lime.....			50			25		2	Simonson & Lacey.....	Thebe.....	259	
".....	".....			292	21		50			John La Moign.....	Ballarat.....	260	
Granite.....	Granite.....	20	20	40	100	40	80			F. P. Meyson.....	Lone Pine.....	261	
".....	".....	75			600		75			Virginia Consolidated Co.	San Francisco.....	262	
Lime.....	Lime.....	100	55			50	100			A. M. Strong.....	Independence.....	263	
Porphyry.....	Porphyry.....			20	50		30			Irwin & Keyes.....	".....	264	
Lime.....	Lime.....	100	55		50	100			1	South Park Developm't Co.	Ballarat.....	265	
".....	".....	300			900		300			W. E. Fedley.....	Riverside.....	266	
Granite.....	Porphyry.....		80		100	50	80			John Cytz.....	Ballarat.....	267	

During the years 1872, '73 and '74 this mine yielded between 5 & 6 million dollars

9 REGISTER OF MINES AND MINERALS OF CALIFORNIA—PLACER AND BEACH MINES.

	NAME OF MINE.	NEAREST TOWN OR P. O.	LOCATION.				WHETHER PATENTED.	ELEVATION.	AREA.	LENGTH OF DITCHES.	LENGTH OF BEACH.	MANNER OF WORKING.	COMPANY, OWNER OR SUPERINTENDENT.		NOTE.
			SECTION.	TOWNSHIP.	RANGE.	MAP No.							NAME.	ADDRESS.	
1	Hope.....	Citrus.....	.....	.....	.....	230	no	<i>Feet</i> 5600	<i>Acres</i> 120	<i>Miles</i> .....	.....	Bed rock tunnel.	Giles, Thorpe & Cook	Citrus	6 miles NE of Citrus.....
2	Independence.	" .....	.....	.....	.....	231	"	5600	20	.....	.....	Dry washing....	James A. Jenkins..	Independence.....	6 miles NE of Citrus.....
3	Mazourka ....	" .....	.....	.....	.....	232	"	5200	240	3	.....	Bed rock tunnel.	Mazourka Mining & Water Co.	Citrus.....	5 miles NE of Citrus.....

	NAME OF MINE.	NEAREST TOWN OR P. O.	LOCATION.				WHETHER PATENTED.	AREA.	ELEVATION.	HEIGHT OF BANK.	THICKNESS OF GRAVEL.	WATER.								
			SECTION.	TOWNSHIP.	RANGE.	MAP No.						SOURCE OF WATER.	QUANTITY, IN INCHES.	WIDTH OF DITCH.	DEPTH OF DITCH.	LENGTH OF DITCH.	GRADE OF DITCH.	LENGTH OF PIPE.	DIAMETER OF PIPE.	HEAD.
1	Bell Placer Mine..	Tinnemaha.....	15	10	33	302	no	<i>Acres</i> 180	<i>Feet</i> 4500	<i>Feet</i> 30	<i>Feet</i> 20	Birch Creek.....	500	<i>Feet</i> 3	<i>Feet</i> 1½	<i>Miles</i> 2	<i>Inches</i>	<i>Feet</i> 700	<i>Inches</i>	<i>Feet</i>

GIANTS.	DRAINS INTO TRIBU- TARY OF	MEN EMPLOYED.	DATE OF PERMIT GRANTED BY DEBRIS COMMIS- SION.	COMPANY, OWNER OR SUPERINTENDENT.		REMARKS.
				NAME.	ADDRESS.	
				A. M. Bell, Supt..	Independence.....	1

REGISTER OF MINES AND MINERALS

NAME OF MILL.	NEAREST TOWN OR P. O.	LOCATION.				ELEVATION. <i>Feet.</i>	POWER.	CHARACTER OF MILL, STAMP, PATENT MILL, ARRASTRA, ETC.	NUMBER OF MILLS.	DIAMETER. <i>Feet.</i>	NUMBER OF STAMPS.	WEIGHT EACH STAMP—POUNDS.	CAPACITY, 24 HOURS—TONS.
		SECTION.	TOWNSHIP.	RANGE.	MAP No.								
1 Annie Bell.....	Reward.....				298	7000	Gasoline.....	Arrastra.....					3
2 Black Eagle.....	Citrus.....				216	5500	Steam.....	Stamp.....	1		2	1000	5
3 Blue Bird.....	Darwin.....				96	6000	Oil.....	".....	1		5	300	5
4 Bronco.....	Lone Pine.....				216	7000	Steam.....	Arrastra.....	3				
5 Cleveland.....	Tinnemaha.....				275	5000	Water.....	".....	1				
6 Cooper.....	Ballarat.....				36	7500	Steam.....	Stamp.....	1		4	1000	8
7 Coso.....	Darwin.....		20	40	188	6000	".....	".....	1		4	750	6
8 Defiance.....	".....	13	19	40	116	4500	".....	".....					
9 Eelipse.....	Reward.....		15	36	224	4000	Water.....	Stamp.....	1		30	450	30
10 Flagstaff.....	Keeler.....				150	5000	Steam.....	Arrastra.....	1				
11 Hard Scrabble.....	Tinnemaha.....	21	10	34	301	4250	Water.....	Stamp.....	1		5	900	15
12 Index.....	Bishop.....				300	8560	".....	".....	1		4	800	6
13 Keynot.....	Lone Pine.....				217	8000	Steam.....	".....	1		5	850	8
14 Lane.....	Darwin.....	13	19	40	108	4000	Steam & gasoline.....	".....					
15 Laverce.....	Lone Pine.....		15	35	215	5000	Horse.....	Arrastra.....	1				
16 Mineral Hill.....	Ballarat.....				49	3500	Steam.....	Stamp.....	1		6	1200	30
17 Modock.....	Darwin.....				100	3500	".....	".....					
18 Montezuma.....	Big Pine.....				250	5000	".....	Rolls.....	1				50
19 Owl.....	Darwin.....				95	6000	Oil.....	Stamp.....	1		4	250	4
20 Post Office.....	Ballarat.....				19	4500	".....	".....	1		5	750	10
21 Panamint.....	Ballarat.....		21	45	59	6500	".....	".....	1		10	900	20
22 Poleta.....	Bishop.....		7	34	299	5000	Water.....	".....	1		5	900	15
23 Rateliff.....	Ballarat.....				28	6500	Steam.....	".....	1		20	900	40
24 Reward.....	Reward.....		15	36	219	4000	Water.....	".....	1		10	1000	25
25 Rex Montis.....	Independence.....				238	6000	".....	".....	1		5	1000	10
26 Snows Canyon.....	Darwin.....				85	5000	Gasoline.....	".....	1		5	800	5
27 Tip Top.....	Tinnemaha.....				265	5000	Water.....	Arrastra.....	1				
28 Tecopah.....	Mause, Nev.....		20	8	2		Steam.....	Smelter.....					
29 Tuber.....	Ballarat.....				51	4000	".....	Merrill mill.....	1		12	1000	50
30 Union.....	Keeler.....		16	38	185	8500	".....	Hoisting engine.....	1				
31 Worldbeater.....	Ballarat.....				20	6000	".....	Bryan mill.....	1				24

CONCENTRATORS.		FURNACE—No.	CYANIDE PLANT, DAILY CAPACITY.	CHLORINATION PLANT, DAILY CAPACITY.	CANVAS TABLE—SIZE.	COMPANY, OWNER OR SUPERINTENDENT.		REMARKS.
NAME.	No.					NAME.	ADDRESS.	
Standard	1		Tons. 10			Freiderike Rhine	Independence	1
						Reward Gold Mining Co.	Reward	2
						Cress & French	Ballarat	3
						R. C. Spear	Lone Pine	4
						J. S. Broder	Tinnemaha	5
						James F. Cooper	Ballarat	6
New Standard	1	1				C. H. Cram & Co.	Darwin	7
		1				Reddy Estate	San Francisco	8
Frue	1					A. W. Eibeschutz	Independence	9
						F. P. Meyson	Lone Pine	10
						Peterson & Co.		11
						S. P. Roberts	Bishop	12
						L. Lasky	San Francisco	13
		1				J. W. Thorman, Supt.	Darwin	14
						Joseph White	Lone Pine	15
			100			Mineral Hill Gold Mining Co.	Ballarat	16
		2				Modock Con. Mining Co.	San Francisco	17
New Standard	1		10			J. E. Nolan	Big Pine	18
						John Cyty	Ballarat	19
						Charles Anthony	Darwin	20
Frue, Sturtevant	4	1				W. E. Pedley	Riverside	21
						Millner & Farrington	Bishop	22
			50			Ratcliff Gold Mining Co.	Ballarat	23
Wilfley	2		50			Reward Gold Mining Co.	Reward	24
						O. I. Mairs	Independence	25
Wilfley	1		10			Morton Estate	Keeler	26
						A. K. Engley	Big Pine	27
						J. W. Osborne	Daggett	28
			50			Tuber Mining Co.	Ballarat	29
						Union Co.	Carson, Nev.	30
						George Montgomery, Supt.	Independence	31

Also an elevated tramway 6400 ft. long, capacity 10 tons pr. hr.

Also a Blake breaker, capacity 100 tons 24 hours, and two elevators with a carrying capacity of 200 tons 24 hours

Ore delivered to mill by elevated tramway one mile in length, [100 buckets, capacity 100 lbs each, delivering 6 tons an hr.

	NAME OF SPRING.	NEAREST TOWN OR P. O.	LOCATION.				ELEVATION. <i>Feet.</i>	OWNER.		ANALYST.	FLOW DAILY.	TEMPERATURE FAHR.	TOTAL SOLIDS.	GRAINS IN U. S. OR IMPERIAL GALLONS, PERCENTAGE.	SODIUM SULPHATE.
			SECTION.	TOWNSHIP.	RANGE.	MAP No.		NAME.	ADDRESS.						
1	Arab	Coso Valley		19	39	303									
2	Ballarat	Ballarat	3	22	44	360									
3	Bennetts Wells	Death Valley		25	1	304									
4	Bird	Butte Valley		25	41	305									
5	Black Rock	Darwin		19	39	310									
6	Blue Bird	Saline Valley		14	42	358									
7	Brady	Owens Lake (east side)	19	16	38	309									
8	Boiling	Amargosa Valley		21	7	307									
9	Boiling	"		21	6	306									
10	Box Spring	Owens Lake (east side)	18	16	38	308									
11	Castalian	Owens Lake (SW side)	4	19	37	316			U. S. Geodetic Survey			1840	E x 2		
12	China Ranch	Manse, Nev.		20	7	311									
13	Chris Crohn	Cerro Gordo		15	38	314									
14	Cold	Saline Valley		13	39	312									
15	Copper	"		14	40	355									
16	Coyote	Citrus				367	4000								
17	*Coso Hot	Coso Mountain	4	22	39	315									
18	Craigs	Saline Valley		14	33	317									
19	Crystal	Coso Valley		20	40	313									
20	Deep Springs	Pine Mountain	5	8	36	318									
21	Dodds	Saline Valley		14	40	319									
22	Eclipse	Reward		14	36	321									
23	Emigrant	Lost Valley		17	44	320									
24	Fish Spring	Fish Spring	21	10	34	322									
25	Fountain	Lost Valley		28	1	323									
26	Franklin Wells	Amargosa Valley		26	6	324									
27	Fresh	"		22	6	325									
28	Furnace	Death Valley		27	2	326									
29	Grants Spring	Saline Valley		14	41	356									
30	Greenald	Death Valley	21	27	1	327									
31	Horse	Amargosa Valley		21	9	328									
32	Hickey Hood	Mazonuka Cañon		12	36	330									
33	Hot	Saline Valley	9	13	39	329									
34	Hot Sulphur Spring	Coso Mountains	7	22	39	365									
35	Indian	Lost Valley		13	43	331									
36	Inyo	Saline Valley		14	41	357									
37	Lagunita	Olancha	17	23	38	332									
38	Moquito	Death Valley		24	1	333									
39	New York	Reward		14	37	335									
40	Nile	Panamint Valley	14	22	42	334									
41	Pine Spring	Saline Valley		14	40	359									
42	Resting	Amargosa Valley		21	8	336									
43	Rose	Haway	15	21	37	337									
44	Rock Corral	Owens Lake (SE side)	18	16	38	338									
45	Salt	Death Valley		26	1	339									
46	Silver Spring	Argus Range		20	42	344									
47	Soda	Panamint Valley	10	22	44	340									
48	Surveyers	Lost Valley		15	46	343									
49	Sulphur	Panamint Valley		19	44	341									
50	Summit	"		24	43	342									
51	Tecopah	Willow Creek		20	8	345									
52	Three Springs	Keeler	4	17	38	346									
53	Tule	Amargosa Valley		21	9	347									
54	Tule	Death Valley		25	1	348									
55	Union	Lone Pine		15	36	349									

* REMARKS:—The Coso Hot Spring is the only mineral spring of any importance in Inyo County. The taste of this water is extremely sour. While the water deposits sulphur, there is no taste of sulphur in it. Springs of this character are exceedingly rare.

POTASSIUM SULPHATE.	MAGNESIUM SULPHATE.	CALCIUM SULPHATE.	IRON SULPHATE.	FERROUS.	FERRIC.	CHLORINE.	ALUMINUM SULPHATE.	MANGANESE.	AMMONIA.	LITHIUM.	STRONTIUM.	BORATES.	ORGANIC MATTER.	SULPHURETED HYDROGEN.	CARBONIC ACID.	CARBURETED HYDROGEN.	SULPHURIC ACID.	NITRIC ACID.	NOTE.	
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	NAME OF MINE.	NEAREST TOWN OR P. O.	LOCATION.				WHETHER PATENTED.	ELEVATION.	CHARACTER.
			SECTION.	TOWNSHIP.	RANGE.	MAP No.			
	MARBLE.						<i>Feet</i>		
1	Marble Quarry.....	Keeler.....	14	16	37	361	ap. for	4000	Black, red and white marble; hard and fine grained.....
	SULPHUR.								
2	Sulphur Banks.....	Olancha.....	788	22	38	362	"	5200	Sulphur Deposits.....
	BORAX.								
3	Saline Valley Borax Marsh.....	Big Pine.....	22	14	.....	363	yes	3500	Borate of soda.....
	SODA.								
4	Soda Works.....	Keeler.....	31	16	38	364	"	3750	Soda evaporated by solar heat from waters of Owens Lake and man'f'd into soda ash..
	PLATINUM.								
5	Mount Hope.....	Citrus.....	.....	.....	.....	366	.....	4000	Platinum.....

3477-61
Lot-19

SHAFT.	INCLINE.	OPEN CUT.	TUNNEL.	DRIFT.	POWER.	No. MEN EMPLOYED.	COMPANY, OWNER OR SUPERINTENDENT.		REMARKS.
							NAME.	ADDRESS.	
Feet.	Feet.	Feet.	Feet.	Feet.					
.....	1200	.....	.....	Manual labor	.....	Inyo Marble Co.....	San Francisco .....	.....
.....	Natural heat	.....	J. B. Haggin.....	San Francisco, Cal.....	Frank K. Drum, Agent, Mills Building.....
.....	Steam	15	Western Borax Co.....	San Francisco .....	.....
.....	Solar heat & steam	30	Inyo Development Co.....	Carson City, Nevada.....
.....			Max Fausel	Independence.....

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