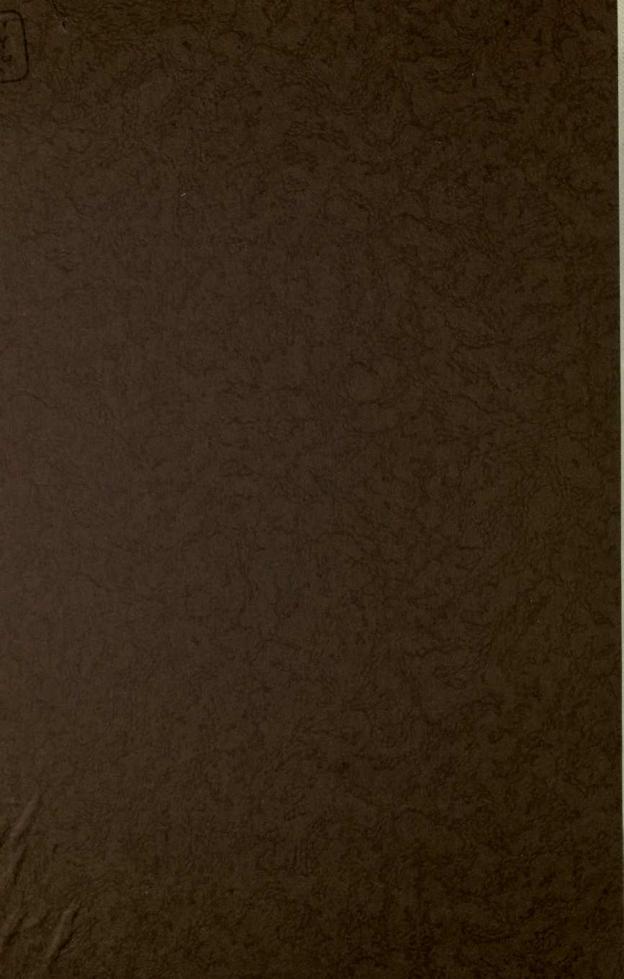
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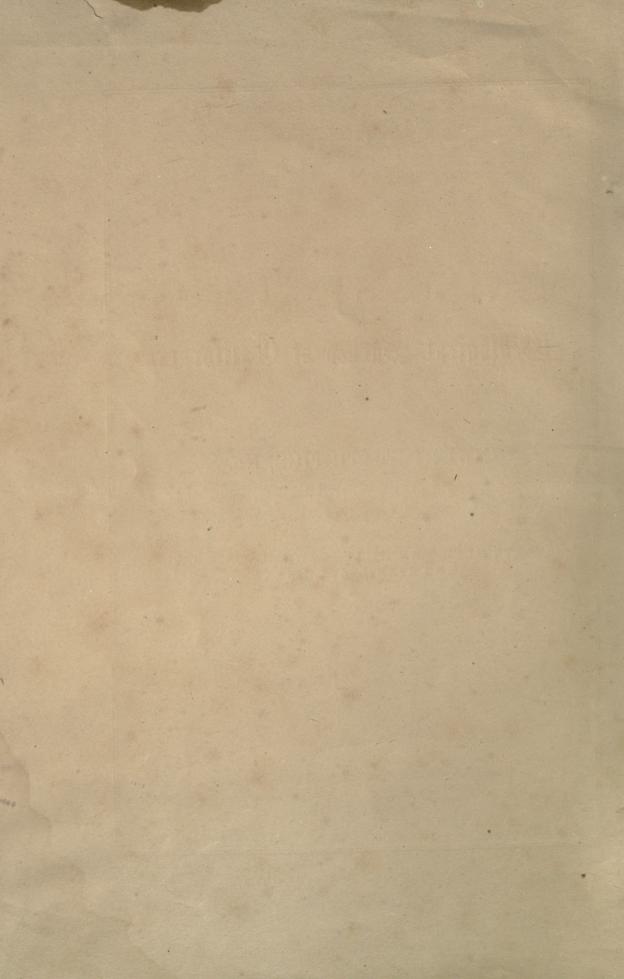




Geological Surbey of California.

MINING STATISTICS, No. 1.

QUARTZ MINES AND MILLS BETWEEN THE MERCED AND STANISLAUS RIVERS.



California GEOLOGICAL SURVEY OF CALIFORNIA.

J. D. WHITNEY, STATE GEOLOGIST.

MINING STATISTICS.

No. 1.

TABULAR STATEMENT OF THE CONDITION OF THE AURIFEROUS QUARTZ MINES AND MILLS

IN THAT PART OF MARIPOSA AND TUOLUMNE COUNTIES LYING BETWEEN THE MERCED AND STANISLAUS RIVERS, AUGUST—NOVEMBER, 1865.



PUBLISHED BY AUTHORITY OF THE LEGISLATURE OF CALIFORNIA.

APRIL, 1866.

Myrzar.

gli Cooper

Note.—The following tabular statement contains the results of an examination of seventy-seven gold mines and sixty-five quartz mills, situated in the region between the Merced and Stanislaus Rivers, all of which were visited by Mr. Rémond during the months of August to November, 1865. Of the seventy-seven mines, fifty-six were being worked at that time; and of the sixty-five mills, twenty-three were running. The mines are distributed through the different kinds of rocks as follows:

In Granite,		23
In Mica Slate,		23
Partly in Granite and partly in Mica Slate,		5
In Clay Slate,		3
In the Green Porphyritic Schists,		3
Along the Great Quartz Vein,		20

SHERMAN & CO., PRINTERS, PHILADELPHIA.

			14									10		3		1			113						
9	Cranberry.	Near Merced River.	Mariposa.	August 10th.	Worked.	Granite.	N. 65° W.	N.N.E., 45°.	2 feet 6 inches.	Ferruginous Quartz.	Copper, Lead, Iron.	\$16 to \$20.	\$3.50.	\$2.00.	\$3.00.	Yosemite.	Merced River.	Running.	December, 1860.	\$3000.	Water.	5.	Copper plates.	\$1000.	\$1200.
Ď.	Catherine.	Near Merced River.	Mariposa.	August 9th.	Not worked.	Granite.	N. 30° W.	E.N.E., 40°.	1 foot 2 inches.	Quartz.	None seen.	\$25 to \$40.	\$14.00.	\$1.25.	\$3.00.	Catherine.	Merced River.	Not running.	January, 1863.	\$3000.	Water.	ಣ	Copper plates and 2 Arrastras.	\$1000.	\$600.
4.	Mount Hope.	Merced River.	Mariposa.	August 9th.	Not worked.	Granite.	٠.	ė.	2	Quartz.	Iron, Zinc, Lead.	۵.	۵.	٥.	۵.	Mount Hope.	Merced River.	Not running.	May, 1864.	\$3500.	Water.	5.	Copper plates.	\$100.	\$1000.
65	Victor.	Merced River.	Mariposa.	August 9th.	Worked.	Granite.	EW.	N., 30°-35°.	1 foot.	Quartz.	Iron, Zinc, Lead.	\$10 to \$60.	۵.	٠.	į	Victor.	Merced River.	Not running.	December, 1862.	\$3000.	Water.	5.	Copper plates and Arrastra.	\$100.	\$1000.
3.	Hope.	Merced Mountain.	Mariposa.	July 30th.	Not worked.	Porphyritic schists.	N. 55° W.	N.E., 60°.	1 foot.	White Quartz.	Copper, Iron, Lead.	\$6.00.	\$3.00.	\$1.00.	\$1.50.	Brichman's.	Merced River.	Not running.	1864.	\$4000.	Water.	10.	Copper plates.	\$500.	\$500.
1.	French Mary.	Merced Mountain.	Mariposa.	July 30th, 1865.	Not worked.	Porphyritic schists.	N. 35° W.	N.E., 45°.	I foot 6 inches.	White Quartz.	Copper, Iron, Lead.	\$12.00	¢.	۵.	c.	None.									
Number,	Mine,	Location,	County,	Date of visit,	Whether worked,	Vein inclosed in,	Strike,	Dip,	Average width,	Veinstone,	Sulphurets present, .	Yield of ore per ton, .	Cost of extraction,	Transportation to mill,	Cost of treatment at mill,	Mill,	Location,	Whether running,	When erected,	Cost,	Power employed,	Number of stamps,	Kind of amalgamat.	Cost of roads or trails,	Cost of flumes & ditches,

Mine, Rutherford's. Fegguson's. Codar. Empire. Mary Harrison. Malyman. Maryman.	Number,	7.	8.	9.	10.	11.	12.
ton,	Mine,	Rutherford's.	Ferguson's.	Cedar.	Empire.	Mary Harrison.	Malvina.
y,	Location,	Merced River.	Merced River.	Near Bull Creek.	Marble Spring Gulch.	Near Coulterville.	Near Coulterville.
of visit,	County,	Mariposa.	Mariposa.	Mariposa.	Mariposa.	Mariposa.	Mariposa.
hor worked, Not worked, Worked. Worke	Date of visit,	August 10th.	August 10th.	August 13th.	August 14th.	August 16th:	August 17th.
N. 10° E. N. 1	Whether worked,	Not worked.	Worked.	Worked.	Not worked.	Worked.	Worked.
i,	Vein inclosed in,	Granite.	Mica Slate.	Granite & Mica Slate.	Mica Slate.	Clay Slate and Quartz	Clay Slate.
ge width,	Strike,	N. 10° E.	N. 10° E.	N. and S.	N. 20° W.	N. 50° W.	N. 60° W.
ge width,	Dip,	E., 65°.	W. 75°.	W., 55°-60°.	E.N.E., 50°.	N.E., 60°-65°.	N.N.E., 60°-65°.
tone,	Average width,	I foot 6 inches.	8 inches.	I foot.	I foot 6 inches.	3 feet.	10 feet.
nrets present,	Veinstone,	White Quartz.	Quartz.	Ferruginous Quartz.	White Quartz.	Quartz, Limestone, Talc.	White Quartz.
of ore per ton,	Sulphurets present, .	Iron, Zinc, Lead.	Arsenic, Iron, Lead, Zinc.	Iron.	Iron, Lead, Zinc.	Iron.	Iron, Copper.
fextraction,	Yield of ore per ton, .	\$25.00.	\$20.00.	\$40.00.	\$40.00.	\$8 to \$20.	\$8 to \$30.
portation to mill, treatment at mill, treatment	Cost of extraction,	c.	۵.	\$4.00.	ċ	\$4.00.	\$1.75.
treatment at mill, content at mill	Transportation to mill,	۵.	۵.	\$2.50.	٠.	\$1.00.	\$0.873.
ill, (No. 6.) Ferguson's. Cedar. Empire. French Mill (old). ion, Merced River. Bull Creek. At Mine. Maxwell Creek. her running, Running. Running. Running. At Mine. Maxwell Creek. erected, \$3000. ? April, 1862. ? </th <th>Cost of treatment at mill,</th> <th>۵.</th> <th>٠.</th> <th>\$2.50.</th> <th>è</th> <th>\$2.00.</th> <th>\$2.00.</th>	Cost of treatment at mill,	۵.	٠.	\$2.50.	è	\$2.00.	\$2.00.
ion,	Mill,	(No. 6.)	Ferguson's.	Cedar.	Empire.	French Mill (old).	French Mill(new)
her running,	Location,		Merced River.	Bull Creek.	At Mine.	Maxwell Creek.	Maxwell Creek.
erected,	Whether running,		Running.	Running.	Ruined.	Not running.	Running.
Steam, 20-horse. Steam, 20-h	When erected,		December, 1863.	October, 1865.	1851.	April, 1862.	September, 1864.
	Cost,		\$6000.	\$3000.		;	2
	Power employed,		Water.	Water.		Steam, 20-horse.	Steam, 60-horse.
Copper plates 6 Hungarian pans	Number of stamps,		8.	5.		15.	35.
\$500. \$90.00. None. \$330 \$1000.	Kind of amalgamating machinery,		Copper plates.	Copper plates.		6 Hungarian pans.	14 Hungarian pans and 1 Iron Arrastra.
\$1000. \$150. None. None.	Cost of roads or trails,		\$500.	\$90.00.	None.	\$330.	\$150.
	Cost of flumes & ditches,		\$1000.	\$150.	None.	None.	None.

	n's.	ferced.	sa.	er 2d.	od.	ate.	.W.W.	00-200	nches.	Z.	een.	0.				n's.	line.	ning.	1862.	0.	ī.		lates.		0.
18.	Casabon's.	N. Fork, Merced.	Mariposa.	September 2d.	Worked.	Mica Slate.	E.S.EW.N.W.	N.N.E., 60°-70°.	1 foot 6 inches.	Quartz.	None seen.	\$15.00.	٠.	٠.	٠.	Casabon's.	Near Mine.	Not running.	January, 1862.	\$6000.	Water.	8	Copper plates	\$100.	\$3000.
17.	Funk's.	Gentry's Gulch.	Mariposa.	September 2d.	Worked.	Mica Slate.	EW.	N., 25°.	10-12 inches.	White Quartz.	None seen.	٤.	٠	۵.	ć.	Funk's (2 mills).	Near Mine.	Not running.	December, 1862.	\$5700.	Water.	10.	Copper plates.	\$100.	\$500.
16.	Schimer's.	Near Louisiana.	Mariposa.	September 1st.	Worked.	Mica Slate.	E.S.EW.N.W.	N.N.E., 60°.	I foot.	Quartz.	Iron, Lead, Zinc.	\$15.00.	\$3.00.	None.	\$2.00.	Low Mill.	On Mine.	Not running.	1862.	\$6000.	Steam, 14-horse.	જ	Copper plates.	\$4.00.	None.
15.	Louisiana.	2 m. from Bower Cave.	Mariposa.	September 1st.	Worked.	Mica Slate.	W.N.W. and E.S.E.	N.N.E., 50°-60°.	I foot 6 inches.	Quartz.	Iron, Lead, Zinc.	\$25.00.	\$4.00.	\$0.75.	\$2.00.	Louisiana.	Near mine.	Running.	March, 1863.	\$6000.	Steam, 6-horse.		Copper plates, and 2 tor, and 1 Salmon's Amalgama- Amalgamating Pans. Separator.	\$50.00.	None.
14.	M'Alpine's.	Quartz Gulch.	Mariposa.	August 22d.	Not worked.	Great Quartz Vein.	N. 70° W.	N.N.E., 50°.	1 foot.	Quartz.	None seen.	\$25 to \$50.	\$4.00.	\$2.00.	\$2.00.	M'Alpine,	Near Mine.	Not running.	1857.	\$10,000.	Water.	š		\$100.	\$200.
13.	Adelaide.	3 m. from Coulterville.	Mariposa.	August 20th.	Worked.	Clay Slates.	N. 65° W.	N.N.E., 55°.	2 feet.	White Quartz.	Iron	\$6.00.	\$1.00.	\$1.25.	\$0.75.	Crown Lead.	Merced River.	Not running.	October, 1863.	\$42,000.	Water and steam, 10- horse.	25.	4 Patterson's pans and 2 Separators.	\$6500.	\$18,000.
Number,	Mine,	Location,	County,	Date of visit,	Whether worked,	Vein inclosed in,	Strike,	Dip,	Average width,	Veinstone,	Sulphurets present, .	Yield of ore per ton, .	Cost of extraction,	Transportation to mill,	Cost of treatment at mill,	Mill,	Location,	Whether running,	When erected,	Cost,	Power employed,	Number of stamps,	Kind of amalgamat-	Cost of roads or trails,	Cost of flumes & ditches,

_			.00	70	00	000	70
	Number,	19.	20.	21.	66.	60.	64°
	Mine,	Goodwin's.	Derrick's.	Humbug.	Blue Ledge.	Heslep's.	App's.
	Location,	Near N. Fork, Merced.	ear N. Fork, Merced. Near N. Fork, Merced.	Near Bull Creek.	1 mile from Black's.	Quartz Mountain.	Quartz Mountain.
	County,	Mariposa.	Mariposa.	Mariposa.	Mariposa.	Tuolumne.	Tuolumne.
	Date of visit,	September 3d.	September 3d.	August 14th.	August 14th.	September 11th.	September 11th.
	Whether worked,	Not worked.	Not worked.	Not worked.	Worked.	Worked.	Worked.
	Vein inclosed in,	Mica Slate.	Mica Slate.	Granite.	Mica Slate.	Talcose Slate & Great Talcose Slate & Great Quartz vein.	Talcose Slate & Grea Quartz vein.
	Strike,	EW.	EW.	NS.	E. S. EW. N. W.	N.WS.E.	N. 50° W.
	Dip,	S., 70°.	N., 25°.	٥.	N.N.E.	N.E., 80°.	N.E., 60°.
	Average width,	2 feet.	I foot 6 inches.	٠.	٥.	10 feet.	6 feet.
	Veinstone,	White Quartz.	Quartz.	Quartz.	Quartz, Limestone, Clay.	Slate and Quartz.	White Quartz.
	Sulphurets present, .	Iron.	Copper, Zinc, Iron, Lead.	None seen.	None seen.	Iron.	5
	Yield of ore per ton, .	\$15.00.	\$25.00.	\$4.00.	\$23.00.	\$12.00.	\$18.00.
	Cost of extraction,	\$2.00.	\$12.00.	\$1.50.	\$5.00.	\$2.50.	\$3.00.
	Transportation to mill,	\$1.50.	\$3.00.	\$0.50.	\$2.00.	\$0.40.	\$0.75.
	Cost of treatment at mill,	\$1.50.	\$4.00.	\$3.00.	\$3.00.	\$2.00.	\$2.50.
II	Mill,	Eclipse.	Derrick's.	Humbug.	Black's.	Heslep's.	App's.
1	Location,	N. Fork, Merced.	N. Fork, Merced.	Bull Creek.	Bull Creek.	On Mine.	Wood's Creek.
	Whether running,	Not running.	Not running.	Not running.	Not running.	Running.	Running.
1	When erected,	1863.	July, 1859.	1858.	1864.	July, 1854.	1857.
	Cost,	\$4000.	\$3000.	\$2300.	\$1500.	\$12,000.	\$4500.
	Power employed,	Water.	Water.	Water.	Water.	Water, 50-horse.	Water and Steam, 25-horse.
	Number of stamps,	80	6.	4.	4.	10.	10.
	Kind of amalgamating machinery,	Copper plates.	Copper plates.	Copper plates.	Copper plates.	Arrastra, 1 Beath's Grinder, 1 Salmon's	Copper plates.
	Cost of roads or trails,	\$1000.	\$1500.	\$50.00.	None.	\$300.	\$500.
	Cost of flumes & ditches,	\$1000.	\$500.	\$500.	\$500.	\$1200.	٥.
1							

Mine,	Number,	25.	.98	25	28.	29.	30.
N'r.S.Fork, Stanislaus. N'r.S.Fork, Stanislaus. Tuolumne.	Mine,	Morse's.	Oreutt's.	(No Mine.)	Eureka.	Summer's.	Grizzly.
Tuolumne. Tuolumne. Tuolumne. Tuolumne. Tuolumne. September 13th. September 13th. September 13th. September 13th. Worked. Worked. Worked. Worked. N. 30° E. N. 50° E. N. 25° W. E.S.E., 60°. S.E., 70°. R.N.E., 55°. I foot 6 inches. 2 feet 6 inches. E.N.E., 55°. Bluish Quartz. Iron, Lead. 4 feet. Iron, Lead. \$2.00. \$14.00. \$0.50. \$2.00. \$4.60. \$0.50. \$2.00. \$4.00. \$0.50. \$2.00. \$2.75. \$0.50. \$2.00. \$2.75. \$0.50. \$2.00. \$2.75. \$0.50. \$2.00. \$2.75. \$0.50. \$20.00. \$28,000. \$20.00. \$20.00. \$20.00. \$20.00. \$20.00. \$20.00. \$20.00. \$20.00. \$20.00. \$20.00. \$20.00. \$20.00. \$20.00.	Location,	N'r S. Fork, Stanislaus.	N'r S. Fork, Stanislaus.		Summerville.	Near Summerville.	N. Fork, Tuolumne.
September 13th. September 13th. September 13th. September 13th. Worked. Worked. Worked. N. 30c E. N. 50c E. Worked. N. 30c E. N. 50c E. Runite & Mice Slate. N. 30c E. N. 50c E. R. 25c W. E.S.E., 60c. 2 feet 6 inches. 4 feet. Bluish Quartz. Iron, Lead. 4 feet. Iron, Lead. \$2.00. \$14.00. \$4.00. \$2.00 \$2.00. \$14.00. \$4.00. \$0.50. \$0.50. \$2.00. \$2.75. \$0.50. \$0.50. \$2.75. \$2.75. \$0.00. \$2.00. \$2.00. \$2.75. \$0.00. \$2.00. \$2.00. \$2.00. \$0.50. \$2.00. \$2.00. \$2.00. \$0.50. \$2.00. \$2.00. \$2.00. \$0.50. \$2.00. \$2.00. \$2.00. \$0.00. \$2.00. \$2.00	County,	Tuolumie.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.
Worked. White Quartz. Fine.	Date of visit,	September 13th.	September 13th.	September 13th.	September 12th.	September 12th.	September 12th.
Granite. Granite. N. 50° E. N. 50° E. N. 25° W. E.S.E., 60°. S.E., 70°. E.N.E., 55°. I foot 6 inches. 2 feet 6 inches. I fron Lead. F	Whether worked,	Worked.	Worked.		Worked.	Worked.	Not worked.
N. 30° E. N. 50° E. N. 50° E.	Vein inclosed in,	Granite.	Granite.		Granite & Mica Slate.	Mica Slate.	Mica Slate.
E.S.E., 60°. E.S.E., 60°. I foot 6 inches. Bluish Quartz. Bluish Quartz. Iron, Lead. \$25 to \$30. \$25.00. \$2.00. \$2.00. \$0.50. \$0.50. \$0.50. \$2.00. \$0.50	Strike,	N. 30° E.	N. 50° E.		N. 25° W.	N. 25° W.	N.N.WS.S.E.
1 foot 6 inches. 2 feet 6 inches. 4 feet. Bluish Quartz. Iron, Lead. F S25 to \$30. \$25.00. \$25.00. \$2.00 \$25.00. \$2.00. \$6.00. \$6.00. \$6.00. S6.00. \$6.00. \$6.00. San. from William's Mt. On Mine. Running. Running. Running. Running. S3000. \$220,000. \$28,000. S20,000. \$28,000. S50.00. \$50.00. I. Superior Spullering. Superior Spullering. S50.00. \$50.00. \$50.00. S50.00. \$50.00. Table. Seem S50.00. \$50.00. Table. Seem S50.00. \$50.00. Table. Seem S50.00. \$50.00. Table. Seem S50.00. \$50.00. Table. S50.00. \$50.00. Table. Seem S50.00. S50.00. Table. Seem S50.00. S50.00. Table. Seem S50.00. S50.	Dip,	E.S.E., 60°.	S.E., 70°.		E.N.E., 55°.	E.N.E., 75°.	E.N.E.
Bluish Quartz. Iron, Lead. Fron. Lead. S25.00. \$25.00. \$25.00. \$14.00. \$14.00. \$2.00. \$2.00. \$2.00. \$2.00. \$2.00. \$2.00. \$2.00. \$2.00. \$2.00. \$2.00. \$2.00. \$2.00. \$2.00. \$2.75. \$2.00. \$2.75. \$2.00. \$2.75. \$2.00	Average width,	I foot 6 inches.	2 feet 6 inches.		4 feet.	3 feet.	7 feet.
Tron, Lead. Tron, Lead. S.25 to \$30. \$2.5 to \$30. \$2.00	Veinstone,	Bluish Quartz.	Bluish Quartz.		White Quartz.	Quartz.	Quartz.
\$25.00. \$2.00 \$2.00 \$0.50. \$6.00. \$6.00. \$6.00. \$6.00. \$6.00. \$6.00. \$7.75. Running. Running. Running. August, 1864. \$220,000. \$20. Technifical Grinder. \$20. Technifical Grinder. \$20. Table. \$1.50.00. \$25.00. \$25.00. \$25.00. \$20. Table. Table. \$1.50.00.	Sulphurets present, .	Iron, Lead.	Iron, Lead.		Iron.	Iron.	۵.
\$0.50. \$0	Yield of ore per ton, .	\$25 to \$30.	\$25.00.		\$14.00.	\$15.00.	\$15 to \$20.
\$6.50. \$6.00. \$6.00. \$6.00. \$6.00. \$6.00. \$6.00. Runting. Running. R	Cost of extraction,	\$2.00	\$2.00.		\$4 00.	\$2.50.	\$4.00.
(No Mill.) Orcutt's. Ryerson's. Eureka. Near Mine. Running. Running. Running. Running. Running. Ranning.	Transportation to mill,	\$0.50.	\$0.50.		None.	\$0.50.	\$0.50.
(No Mill.) Orcutt's. Ryerson's. Eureka. Running. Running. Running. August, 1864. August, 1865. \$20,000. \$3000. Water, 25-horse. Water. 5 1 Centrifugal Grinder. 1 Ryerson's Pullvrier. Running. August, 1865. \$28,000. \$28,000. \$28,000. This is the stand of th	Cost of treatmentat mill,	\$6.00.	\$6.00.		\$2.75.	\$2.50.	\$6.00.
Near Mine. Running. Running	Mill,	(No Mill.)	Oreutt's.	Ryerson's.	Eureka.	Summer's.	Grizzly.
August, 1864. August, 1865. May, 1855. \$20,000. \$20,000. \$20,000. Water, 25-horse. 5.	Location,			3 m. from William's Mt.	On Mine.	Summerville.	N. Fork, Tuolumne.
### ### ### ### ### ### ### ### ### ##	Whether running,		Running.	Running.	Running.	Not running.	Not running.
\$20,000. \$28,000.	When erected,		August, 1864.	August, 1865.	May, 1855.	1860.	May, 1863.
\$50.00. Water, 25-borse. Water. Water, 100-horse. 1 Centrifugal Grinder, 1 Nyerson's Pulverizer. Blankets. Stam Apparatus, 1 Shaking pans, 1 Table. Table.	Cost,		\$3000.	\$20,000.	\$28,000.	\$6000.	
\$50.00.	Power employed,		Water, 25-horse.	Water.	Water, 100-horse.	Water.	Water and steam.
\$50.00. Copper plates and Blankets. \$1 Superheated Steam Apparatus, 1 Shaking pans, 1 Table.	Number of stamps,		5.	(1 Centrifucal Grinder		œ.	20.
\$50.00. \$50.00.	Kind of amalgamat-		Copper plates and Blankets.	1 Ryerson's Pulverizer. 1 Superheated Steam Apparatus, 1 Shaking		Copper plates; 1 Arrastra, 2 Shaking pans.	12 cast-iron barrels.
	Cost of roads or trails,	\$50.00.	\$50.00.	Table.		\$500.	\$2200.
Cost of flumes & ditches, None. \$100,	Jost of flumes & ditches,	None.	\$100,		\$1500.	\$300.	\$1200.

		*				
Number,	. 31.	32.	33.	34.	35.	36.
Mine,	. Excelsior.	Dagner.	Mount Vernon.	Monitor.	Green's.	Pirate.
Location,	. 1 m. from Uniontown.	N. Fork, Tuolumne.	N. Fork, Tuolumne.	N. Fork, Tuolumne.	Near Uniontown.	N'r N. Fork, Tuolumne
County,	. Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.
Date of visit,	. September 14th.	September 14th.	September 14th.	September 14th.	September 14th.	September 14th.
Whether worked, .	. Worked.	Worked.	Worked.	Worked.	Worked.	Worked.
Vein inclosed in,	Granite.	Granite.	Granite.	Granite.	Granite.	Granite.
Strike,	N. 54° E.	N. 60° E.	N. 50° E.	N. 60° E.	N. 10° E.	N.ES.W.
Dip,	S.E., 35°.	S.E. 50°.	S.E., 45°	S.E., 55°.	E., 45°.	S.E., 45°.
Average width,	. 2 feet 6 inches.	I foot.	1 foot.	1 foot 6 inches.	1 foot.	1 foot.
Veinstone,	. Bluish Quartz.	Ferruginous Quartz.	White Quartz.	White Quartz.	White Quartz.	White Quartz.
Sulphurets present,	. Iron, Lead, Zinc.	Iron, Lend.	Iron, Lead.	Iron, Lead.	٠.	Iron, Lead.
Yield of ore per ton,	. \$60.00.	\$40.00.		\$30.00.	\$80.00.	\$25.00.
Cost of extraction, .	\$3.00.	\$4.50	٠.	\$3.00.	\$10.00.	\$9.50.
Transportation to mill,	\$0.50.	None.	٠.	None.	None.	\$0.50.
Cost of treatment at mill,	1, \$1.00.	\$1.75.	٠.	\$2.00.	\$3.50.	\$3.50.
Mill,	. Excelsior.	Dagner.	(No Mill.)	Monitor.	Green's.	Pirate.
Location,	. N. Fork, Tuolumne.	On Mine.		Near Mine.	On Mine.	N. Fork Tuolumne.
Whether running, .	. Not running.	Not running.		Running.	Running.	Running.
When erected,	. 1861.	November, 1864.		October, 1863.	March, 1865.	November, 1859.
Cost,	\$13,500.	\$22,000		\$7000.	\$4000.	\$10,000.
Power employed, .	. Water, 20-horse.	Steam, 42-horse.		Water.	Steam, 15-horse.	Water.
Number of stamps, .	. 10.	10.		ů.	5.	10.
Kind of amalgamat- ing machinery,	Copper plates and 1 Shaking pan.	Copper plates, 2 Arrastras, 1 Shaking table.		{ 1 Ambler's Concentrator, 3 Arrastras, 1 Shaking table.	1 Ambler's Concentrator, 3 Arrastras, Beath's Amalgamator. 1 Shaking table.	Copper plates, and 2 Arrastras.
Cost of roads or trails,	\$2000.	None.		\$1000.	None.	٠.
Cost of flumes & ditches,	s, \$500.	None.		\$300.	None.	

	Number,	37.	38.	39.	40.	41.	42.
2	Mine,	Independence.	Great Eastern.	Comstock.	Soulsby.	Independent.	Gilson's (Old).
	Location,	1 mile from Excelsior.	2 m. from Williams's.	1 m. from Williams's.	Soulsbyville.	Near Soulsbyville.	Soulsbyville.
	County,	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.
	Date of visit,	September 15th.	September 15th.	September 15th.	September 15th.	September 15th.	September 15th.
	Whether worked,	Worked.	Worked.	Worked.	Worked.	Worked.	Not worked.
	Vein inclosed in,	Granite.	Granite.	Granite.	Granite.	Granite.	Granite.
100	Strike,	N.ES.W.	N. 22° E.	NS.	N. 15° E.	N. 7º E.	N. 15° E.
	Dip,	S.E., 45°.	٥.	E., 75°.	E., 80°.	E., 85°.	E., 85°.
	Average width,	4 feet 6 inches.	2 feet.	I foot 6 inches.	1 foot 3 inches.	10 inches.	1 foot 6 inches.
	Veinstone,	Reddish Quartz.	Bluish and Reddish Quartz.	Reddish Quartz.	Quartz.	Ferruginous Quartz.	Quartz.
	Sulphurets present, .	Iron, Lead.	None seen.	Iron, Lead.	Iron, Lead, Zinc.	Iron, Lead.	Iron, Lead, Zinc.
	Yield of ore per ton, .	\$40.00.	\$20.00.	۵.	\$25 to \$30.	\$36.00.	\$52.50.
111	Cost of extraction,	\$2.75 to \$6.00.	٥.	\$2.50.	\$8.00.	٠.	\$12.00.
	Transportation to mill,	\$0.50.	٥.		None.	٠.	None.
	Cost of treatment at mill,	\$2.75.	٠.	٠.	\$3.75.	۵.	\$4.50.
	Mill,	Independence.	(No Mill.)	(No Mill.)	Soulsby.	(No Mill.)	Gilson's.
	Locution,	Near Mine.	•		On Mine.		On Mine.
100	Whether running,	Running.			Running.		Not running.
	When erected,	1864.			1858.		1859.
	Cost,	\$15,000.			\$20,000.		\$9000.
	Power employed,	Steam, 30-horse.			Steam, 35-horse.		Steam, 20-horse.
	Number of stamps,	10.			20.		10.
	Kind of amalgamat-	Copper plates and blankets.			Copper plates.		Copper plates and 2 Arrastras.
	Cost of roads or trails,	۷.			ć		None.
	Cost of flumes & ditches,	None.			None.		None.



To the last of the						
Number,	43.	44.	45.	46.	47.	48.
Mine,	Jackson.	Calder's.	(No Mine.)	Consuelo.	Water's.	Watt's.
Location,	Williams's Ranch.	Calder's Ranch.	Calder's Ranch.	N. Fork, Tuolumne.	Jackass Hill.	N'r Robinson's Ferry.
County,	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.
Date of visit,	September 16th.	September 16th.	September 16th.	September 22d.	September 28th.	September 28th.
Whether worked,	Worked.	Worked.	4	Worked.	Worked.	Worked.
Vein inclosed in,	Granite.	Granite.		Quartzo-micaceous Slate.	Green Schists.	Green Schists.
Strike,	N. 25° E.	N. 30° E.		N. 20° W.	N. 70° W.	N. 57° W.
. Dip,	E.S.E., 45°.	S.E., 60°.		E.N.E., 50°.	N.N.E., 65°.	S.W., 50°.
Average width,	6 inches.	I foot 2 inches.		3 feet 6 inches.	9 feet.	2 inches.
Veinstone,	Quartz.	Quartz.		White Quartz.	Quartz, Limestone, Slate.	Ferruginous Quartz.
Sulphurets present, .	None seen.	Iron, Lead.		Iron, Lead.	Iron.	Iron, Copper.
Yield of ore per ton, .	\$107.	٠.		a.	\$6.00.	\$180.
Cost of extraction,		٥.		۵.	\$2.00.	\$60.00.
Transportation to mill,	٠.	٠.		è	\$0.25.	\$0.25.
Cost of treatment at mill,	&	۵.		~	\$1.75.	\$7.00.
Mill,	(No Mill.)	(No Mill.)	Wheeler's.	Consuelo.	Water's.	Watt's.
Location,			Near Calder's.	Near Mine.	Near Mine.	Near Mine.
Whether running,			Not running.	Not finished.	Running.	Not running.
When erected,			٠.	November, 1865.	October, 1859.	April, 1862.
Cost,			\$7500.	~-	\$3000.	\$800.
Power employed,			Steam, 24-horse.	Water.	Water.	Water.
Number of stamps,			10.	20.	6.	÷
Kind of amalgamating machinery,			2 Varney's pans and 1 Concentrator.	Copper plates.	Copper plates.	1 Arrastra.
Cost of roads or trails,					\$1000.	None.
Cost of flumes & ditches,					\$600.	\$25.00.

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ž4.	Raw Hide.	Raw Hide Ranch.	Tuolumne.	October 8th.	Worked.	Green Schist.			4 feet.	White Quartz, Talc.	Iron, Lead.	\$25.00.	q. .	ė.	,	Raw Hide.	Near Mine.	Running.	April, 1863.	٥.	Water.	10.	Copper plates.	None.	è
53.	Toledo.	French Flat.	Tuolumne.	October 6th.	Worked.	Talcose Slate.	N.WS.E.	N.E., 75°.	3 feet 6 inches.	Talcose Slate, Quartz.	Arsenic, Iron.	\$10.00.	\$2.00.	None.	\$2.00.	Labitour's.	On Mine.	Not running.	January, 1863.	\$14,800.	Water.	15.	Copper plates.	\$1000.	\$4000.
52.	(No Mine.)		Tuolumne.	October 5th.												Washington.	E. of Bald Mountain.	Not running.	April, 1860.	\$1200.	Water.	e.	Copper plates.	None.	None.
51.	Gilson's (New).	Curtis's Creek.	Tuolumne.	October 4th.	Worked.	Granite.	N., 15° E.	E., 80°.	I foot 4 inches.	Quartz.	Iron, Lead, Zinc.	\$40.00.	\$13.00.	\$1.25.	\$6.00.	(Mill No. 42.)								\$1000.	None.
. 50.	Alabama.	Whiskey Hill.	Tuolumne.	September 29th.	Worked.	Talcose Slates.	N.N.WS.S.E.	E.N.E., 70°.	25 feet.	Slate, Quartz.	None seen.	\$10.00.	\$1.50.	None.	\$1.00.	Alabama.	On Mine.	Running.	November, 1858.	\$1500.	Water.	4.	Copper plates.	\$150.	\$200.
49.	Union.	Near Tuttletown.	Tuolumne.	September 29th.	Not worked.	Porphyritic Schists.	N. 60° W.	N.E., 70°.	2 feet.	White Quartz.	Iron.	\$8.00.	\$1.00.	\$0.25.	\$1.75.	Union.	Mormon Creek.	Not running.	September, 1865.	\$2000.	Water.	*	Copper plates.	\$50.00.	\$500.
Number,	Mine,	Location,	County,	Date of visit,	Whether worked,	Vein inclosed in,	Strike,	Dip,	Average width,	Veinstone,	Sulphurets present, .	Yield of ore per ton, .	Cost of extraction,	Transportation to mill,	Cost of treatment at mill,	Mill,	Location,	Whether running,	When erected,	Cost,	Power employed,	Number of stamps,	Kind of amalgamating machinery,	Cost of roads or trails,	Cost of flumes & ditches,

L								-
	Number,	55.	56.	57.	58.	59.	.09	
	Mine,	Shanghai.	Columbia.	. Patterson's.	Valparaiso.	Turner's.	Preston's.	
17	Location,	Near Yankee Hill.	Near Columbia.	Near Tuttletown.	Near Tuttletown.	Turner's Flat.	Whiskey Hill.	
0	County,	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	
A	Date of visit,	October 16th.	October 11th.	October 13th.	October 13th.	October 17th.	October 20th.	
-	Whether worked,	Worked.	Not worked.	Worked.	Not w .ed.	Worked.	Not worked.	
7	Vein inclosed in,	Mica Slate.	Mica Slate.	Green Schists.	Mica Slate.	Porphyritic Schists.	Talcose Slate.	
202	Strike,	N.N.WS.S.E.	NS.	N. 60° W.	NS.	N. 65° E.	N. 55° W.	
A	Dip,	E.N.E., 50°-55°.	E., 40°.	N.E., 65°.	W., 85°.	N.N.W., 45°-60°.	N.E., 75°.	- 1
A	Average width,	2 feet 6 inches.	3 feet 6 inches.	4 feet.	2 feet.	2 feet 6 inches.	10 inches.	
A	Veinstone,	Ferruginous Quartz.	White Quartz.	White Quartz.	White Quartz.	Pure White Quartz.	White Quartz.	
S	Sulphurets present,	Iron, Copper.	Iron, Lead.	· Iron, in crystals.	Iron, in crystals.	None seen.	Iron, Copper, Lead.	
A	Yield of ore per ton, .	\$40.00.	\$9.00	\$8.00.	\$80.00.	Coarse Gold.	۵.	
0	Cost of extraction,	\$5.00.	\$2.00.	\$2.00.	۵.	٠.	\$2.00.	
H	Transportation to mill,	None.	\$0.60.	\$0 25.	None.	None.	\$0.60.	
Ö	Cost of treatment at mill,	\$2.00.	\$2.50.	\$2.50.	ė	None.	\$1.50.	
1	Mill,	Shanghai.	Columbia.	Patterson's.	Valparaiso.	(No Mill.)	Preston's.	
H	Location,	On Mine.	Near Mine.	Near Mine.	On Mine.		Wood's Creek.	
-	Whether running,	Running.	Not running.	Not running.	In ruins.		Not running.	
-	When erected,	June, 1865.	May, 1864.	May, 1858.			September, 1862.	
0	Cost,	\$4000.	\$15,000.	\$6500.	\$3000.		\$4000.	
4	Power employed,	Water.	Water, 96-horse.	Water.	Water.		Water.	
Z	Number of stamps,	10.	15.	10.	.9		10.	
A	Kind of amalgamat- }	Copper plates.	Copper plates.	Copper plates.	Copper plates.		Copper plates.	
0	Cost of roads or trails,	None.	\$1000.	\$400.	None.		\$300.	
C	Cost of flumes & ditches,	\$100.	\$4000.	\$1200.	۵.		\$500.	
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.99	Clio.	Near Jacksonville.	Tuolumne.	October 25th.	Worked.	Schists & Serpentine.	N. 80° W.	N., 60°.	5 feet 6 inches.	White Quartz.	Iron, in crystals.	- \$15.00.	\$3.00.	\$0.75.	\$2.00.	Clio.	Jacksonville.	Not running.	1858.	\$5000.	Water.	10.	Copper plates and 2 Knox's pans.	\$1000.	\$16,000.
65.	(No Mine.)		Tuolumne.	October 20th.												Widow Hill.	E. of Quartz Mountain.	Running.	1861.	۵.	Water.	5.	Copper plates.	None.	٥.
64.	John Knox's.	Quartz Mountain.	Tuolumne.	October 20th.	Worked.	Talcose Slates.	N.WS.E.	N.E., 60°.	1 foot.	Quartz.	None seen.	\$65.00.	۵.	٠.	۵.	(No Mill.)				. No.	9				
63.	Nyman's.	Near Quartz Mount'n.	Tuolumne.	October 20th.	Worked.	Talcose Slates.	N. 50° W.	N.E., 50°.	4 feet.	White Quartz.	Iron, Copper.	\$17.00.	\$3.00.	\$0.90.	\$1.00.	Nyman's.	Wood's Creek.	Running.	1862.	\$4000.	Water.	10.	Copper plates and 2 Arrastras.	\$1000.	\$1000.
62.	Old Whiskey Hill.	Whiskey Hill.	Tuolumne.	October 20th.	Worked.	Talcose Slates.	N. 50°. W.	N.E., 85°.	15 feet.	Talcose Slate.	Copper, Iron.	\$15.00.	\$0.50.	\$0.50.	\$1.50.	Wood's Crossing.	Wood's Creek.	Running.	1857.	\$2000.	Water.	4.	Copper plates.	\$1000.	\$1200.
61.	Italian.	Whiskey Hill.	Tuolumne.	October 20th.	Not worked.	Talcose Slates.	N. 50° W.	N.E., 80°.	6 inches.	White Quartz.	Iron, Copper.	\$20.00.	\$4.00.	None.	\$1.50	Occidental.	On Mine.	Not running.	1857.	\$6000.	Water.	12.	Copper plates and 1 Arrastra.	\$400.	\$300.
Number,	Mine,	Location,	County,	Date of visit,	Whether worked,	Vein inclosed in,	Strike,	Dip,	Average width,	Veinstone,	Sulphurets present,	Yield of ore per ton, .	Cost of extraction,	Transportation to mill,	Cost of treatment at mill,	Mill,	Location	Whether running,	When erected,	Cost,	Power employed,	Number of stamps,	Kind of amalgamat-	Cost of roads or trails,	Cost of flumes & ditches,

	67.	68.	69.	70.	71.	72.
Mine,	Shawmut.	Josephine.	Eagle.	Italian.	Nonpareille.	Burns's.
Location,	Blue Gulch.	Blue Gulch.	Blue Gulch.	1 mile from Deer Flat.	Deer Flat.	First Garrote.
County,	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.
Date of visit,	October 25th.	October 25th.	October 25th.	October 27th.	October 27th.	October 28th.
Whether worked,	Worked.	Worked.	Worked.	Worked.	Not worked.	Worked.
Vein inclosed in,	Great Quartz vein & Talcose Slate.	Great Quartz vein & Talcose Slate	Great Quartz vein & Talcose Slate.	Mica Slate.	Mica Slate.	Mica Slate.
Strike,	N. 50° W.	N. 50° W.	N.WS.E.	EW.	EW.	N. 60° E.
Dip,			N.E., 60°.	S., 30°.	N. 60°.	N.N.W., 70°.
Average width,	1 foot 6 inches.	8 feet.	2 feet.	8 inches.	c.	4 feet.
Veinstone,	Ribboned Quartz.	White Quartz.	White Quartz, Slates.	Ferruginous Quartz.	White Quartz, Slates.	Slates, Quartz.
Sulphurets present, .	Iron, Lead.	Iron, crystallized.	Iron, Lead.	Iron, Lead.	Iron,	None seen.
Yield of ore per ton, .	\$25.00.	\$8.00.	\$12.00.	Coarse Geld.	\$30.00.	\$20.00.
Cost of extraction,	\$2.75.	\$2.00.	\$3.50.	۷.		\$1.00.
Transportation to mill,	None.	None.	\$0.50	ć		\$1.124.
Cost of treatment at mill,	\$1.50.	\$1.50.	\$2.00.	٥.	٠.	\$4.50.
Mill,	Shawmut.	Stetson's.	Eagle.	(No Mill.)	Duprat's.	(No Mill.)
Location,	Near Mine.	Wood's Creek.	Blue Gulch.		Near Mine.	
Whether running,	Not running.	Not running.	Running.		Not running.	
When erected,	January, 1859.	October, 1865.	1861.		June, 1864.	
Cost,	\$8000.	\$7500.	\$11,000.		٠.	
Power employed,	Steam, 25-horse.	Water, 30-horse.	Water.		Water (turbine).	
Number of stamps,	10.		10.		5.	
Kind of amalgamat- }	Copper plates and 4 Knox's pans.	Copper plates, 5 wooden pans, 1 Brodie's Cracker, 1 Centrifugal Pulverizer, and 1 Grinder.	Copper plates.		Copperplates, 1 Far- rand's Amalgama- tor, 1 Settler.	
Cost of roads or trails,	\$2000	\$800.	\$2500.		۵.	
Cost of flumes & ditches,	None.	\$500.	\$3000.		۷.	

		ıt.	TE S			ite.						1					1.		1						
78.	Mohrmann's.	Near Big Oak Flat.	Tuolumne.	November 1st.	Worked.	te & Gran	W.N.WE.S.E.	N.E., 22°-25°.	2 feet 6 inches.	White Quartz.	Iron, Lead.	٠.	٠.	٥.	٥.	(No Mill.)	-				1000				
	Moh	Near B	Tu	Nove	M	Mica Sla	W.N.	N.E.,	2 feet	Whit	Iro		-10			(NC									
77.	Phœnix.	Big Oak Flat.	Tuolumne.	October 31st.	Worked.	Mica Slate & Granite. Mica Slate & Granite.	W.N.WE.S.E.	N.E., 20°-30°.	2 feet 6 inches.	White Quartz.	Iron, Lead.	\$15.00.	٠.	٥.	۷.	Phenix.	Near Mine.	Not running.	٠.	\$200.	Water.	1 Arrastra.	The same Arrastra.	None.	٥.
76.	Kanaka.	Kanaka Creek.	Tuolumne.	October 28th.	Not worked.	Mica Slate.	NS.	E., 55°.	à.	White Quartz.	Iron.	\$8.00.	\$2.00.	\$2.00.	\$3.00.	Mill No. 75.									
75.	Morkam.	Big Creek.	Tuolumne.	October 28th.	Not worked.	Mica Slate.	N. 55° E.	N.W., 65°.	4 feet.	White Quartz.	Iron, Lead, Zinc.	\$14.00.	\$1.50.	\$0.40.	\$3.00.	Pacific.	Big Creek.	Not running.	1863.	\$3000.	Water.	5.	Copper plates and 1 Arrastra.	ć	
7.4.	Second Garrote.	Big Creek.	Tuolumne.	October 28th.	Worked.	Mica Slate.	E-W.	N. 65°.	I foot 6 inches.	Quartz.	Iron.		;	٠.	٠.	Mill No. 75.									
73.	(No Mine.)		Tuolumne.	October 28th.												Cross's.	Near Big Oak Flat.	Running.	1863.	\$4500.	Water.	10.	3 Varney's Pans & 1 Settler.		2.
Number,	Mine,	Location,	County,	Date of visit,	Whether worked,	Vein inclosed in,	Strike,	Dip,	Average width,	Veinstone,	Sulphurets present, .	Yield of ore per ton, .	Cost of extraction,	Transportation to mill,	Cost of treatment at mill,	Mill,	Location,	Whether running,	When erected,	Cost,	Power employed,	Number of stamps,	Kind of amalgamating machinery,	Cost of roads or trails,	Cost of flumes & ditches,

. Number,	79.	80.	81.	82.	83.	84.
Mine,	Kenney's.	Golden Rule.	Mine No. 80.	Mine No. 80.	Brown's Flat.	Zuckermann's.
Location,	Big Oak Flat.	Near Poverty Hill.			Brown's Flat.	Near Brown's Flat.
County,	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.	Tuolumne.
Date of visit,	November 1st.	November 3d.	November 3d.	October 28th.	November 6th.	November 6th.
Whether worked,	Worked.	Worked.			Not worked.	Worked.
Vein inclosed in,	Mica Slate & Granite.	Porphyritic Schists & Great Quartz vein.			Mica Slate.	Mica Slate.
Strike,	W.N.WE.S.E.	N. 30° W.			NS.	NS.
Dip,	N., 30°-35°.	N.E., 70°-75°.			W., 45°.	E. 40°.
Average width,	5 feet.	8 feet.			6 inches.	I foot 6 inches.
Veinstone,	White Quartz.	Quartz and Slate.			White Quartz.	White Quartz.
Sulphurets present, .	Iron, Lead.	Iron.			None seen.	None seen.
Yield of ore per ton, .	\$15.00.	\$40.00.			\$40.00.	\$40.00.
Cost of extraction,	i	\$1.00			\$11.00.	\$5.00.
Transportation to mill,	ċ	a.			None.	
Cost of treatment at mill,		\$2.00.			\$1.50.	\$4.00.
Mill,	Kenney's.	Golden Rule No. 1. Golden Rule No. 2. Golden Rule No. 3.	Golden Rule No. 2.	Golden Rule No. 3.	Brown's Flat.	Zuckermann's.
Location,	On Mine.	Sullivan's Creek.	Near Mine.	On Mine.	On Mine.	Near Mine.
Whether running,	Not running.	Running.	Not running.	Not finished.	Not running.	Not running.
When erected,	1860.	1860.	1860.	December, 1865.	1856.	1859.
Cost,	\$1000.	\$2000.	\$1300.	\$12,000.	\$3500.	\$4000.
Power employed,	Water.	Water.	Water.	Water.	Water.	Water.
Number of stamps,	2 large Arrastras.	5.	લં	15.	4.	4.
Kind of amalgamat- }	The same Arrastras.	Copper plates.	2 Arrastras.	Copper plates, 1 Arrastra, 3 Shaking tables.	Copper plates, and 1 Arrastra.	Copper plates.
Cost of roads or trails,	None.	\$50.00.		None.	None.	٠.
Cost of fluines & ditches,	٠.	\$400.	\$200.		\$1500.	٠.





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