

CALIFORNIA STATE MINING BUREAU;

J. J. CRAWFORD, State Mineralogist.

THIRTEENTH REPORT

(THIRD BIENNIAL)

OF THE

STATE MINERALOGIST

FOR THE

CALIFORNIA  
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FEB 4 1954

TWO YEARS ENDING SEPTEMBER 15, 1896.



SACRAMENTO:

A. J. JOHNSTON, : : : : SUPERINTENDENT STATE PRINTING.  
1896.

*Lucky Marion (Shepherd) Mine* (Quartz).—It is  $\frac{1}{2}$  mile W. of Greenwood, at 1,830' elevation, and comprises 73 acres. The vein strikes N.  $30^{\circ}$  W., and dips  $56^{\circ}$  N.E., between serpentine hanging-wall and slate foot-wall, 31' apart, and includes a talcose schist casing. The main  $3\frac{1}{2}' \times 5\frac{1}{2}'$  incline is 107' deep, and is timbered with 6" x 8" posts and 6" x 10" caps, and closely lagged with 3" planking. At 85' it cuts through a greenish quartz stringer, 18" to 24" wide, carrying coarse gold, resting along a gray quartzitic rock, which carries 2% of gold-bearing pyrite of a high grade. The shaft has a steam hoist, capable of raising 1,000 lbs. and skip from a 500' depth. A 60-gal. Hooker sinking and a 30-gal. Dean pump, with a 25 H.P. boiler, complete the outfit. Seven men are employed. An incorporated company, No. 619 St. Charles Street, St. Louis, Mo., owner; J. W. Nier, of Greenwood, manager.

*Mammoth Mine* (Quartz).—It is 8 miles N.W. of Shingle Springs, at 1,100' elevation, and comprises  $22\frac{1}{2}$  acres. The vein, from 3' to 4' wide, strikes N.E. and S.W., and dips W., in grano-diorite. A pay-shoot has been traced along 200' of the surface, carrying  $1\frac{1}{2}\%$  to 2% sulphurets, but the general appearance of the vein is "hungry" looking. A 10-stamp mill placed near Weber Creek, run by water-power, belongs to the mine; it has free water from Weber Creek through  $\frac{3}{4}$  mile of ditch, using 200 miner's inches under 42' head. Temporarily idle. Jaspur Jurgens, of Lotus, owner.

*Manzanita Queen* (Quartz).—See our VIIIth and Xth Reports, pp. 189 and 172. It is  $1\frac{1}{2}$  miles S.E. of Diamond Springs. A 2-stamp Briggs mill has been crushing, it is said, 8 tons of quartz per day. It is run by a 3' Knight wheel under 280' head, with 18 miner's inches of water from the Diamond Ridge Ditch Co. Below the mill is a Seymour's centrifugal concentrator. Since our last Report the tunnels and shafts have been extended. Eight men are employed. C. F. Bryant et al., of Diamond Springs, owners.

*Mathenas Creek (Schneider) Mine* (Quartz).—See our VIIIth, Xth, and XIIth Reports, pp. 190, 172, and 117. It is 2 miles S. of Diamond Springs. Idle. Sacramento Development Co., owner; R. T. Morrison, of El Dorado, manager.

*McCall Gravel Mine* (Drift).—See our XIIth Report, p. 116, and also Channel Bend Mine.

*McNulty (Oakland) Mine* (Quartz).—See our XIIth Report, p. 117. Dismantled. J. B. Drury, of St. Louis, Mo., owner.

*Melton Mine* (Quartz).—See our VIIIth and XIIth Reports, pp. 177 and 117. It is  $2\frac{1}{2}$  miles N.E. of Grizzly Flat. Idle. A Cleveland, Ohio, company, owner.

*Miller (Ribbon Rock) Mine* (Quartz).—See our VIIIth, Xth, and XIIth Reports, pp. 189, 177, and 117 and 122. It is  $2\frac{1}{2}$  miles S. of Placerville, and adjoins the Superior Mine. Idle. Moses Miller, of Placerville, owner.

*Mississippi Mine* (Drift).—See our XIIth Report, p. 117. It is  $1\frac{1}{2}$  miles E. of Volcanoville. Idle. C. F. Lloyd, of Georgetown, owner.

*Molkey Mine* (Hydraulic).—It is 1 mile S.E. from Fairplay, at 2,870' elevation, and comprises 160 acres. The course of the main channel is N.E., running apparently with the ridge and under it; the present bank in the cut is on an outbreak from the channel proper. The gravel lies both above and below a 10' strata of pipe-clay, on granite bedrock, and is capped with 4' of soil; it contains lava boulders and considerable

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