

CALIFORNIA STATE MINING BUREAU.

J. J. CRAWFORD, State Mineralogist.

TWELFTH REPORT

OF THE

STATE MINERALOGIST,

(SECOND BIENNIAL,)

TWO YEARS ENDING SEPTEMBER 15, 1894.



SACRAMENTO:

STATE OFFICE, : : : : A. J. JOHNSTON, SUPT. STATE PRINTING.
1894.

50 ft. above the present river level, that has been worked since the early '50s. It carries regular river-wash and channel gold. A slate bedrock tunnel 300 ft. in length runs under the gravel, which is free, requiring square sets in breasting out, using 5 ft. posts. The gold is worth \$18 per ounce. T. McCall, of Michigan Bluff, owner.

McNulty (Oakland) Mine (Quartz).—It is in T. 9 N., R. 10 E., 4 miles S. of El Dorado, and contains 80 acres. The vein courses N. and S.; dips E. about 60°, and is 6 ft. wide, with a slate hanging- and greenstone foot-wall. The main tunnel is 300 ft. long, and the shaft is sunk 600 ft. below it, the hoisting power being furnished by a Knight wheel in the tunnel, with water from the Crawford ditch. J. B. Drury, of St. Louis, Mo., owner.

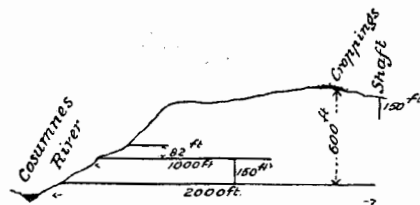
Madrona Mine (Quartz).—It is in Sec. 29, T. 12 N., R. 10 E. Shaft 40 ft. deep. Vein of unknown width and low grade, but carries a large percentage of sulphurets, and is inclosed in slate walls.

Mammoth Mine (Quartz).—See our VIIIth Report, p. 186.

Manzanita Queen Mine (Quartz).—See our VIIIth and Xth Reports, pp. 189 and 172.

Mathenas Creek Mine (Quartz).—See our VIIIth and Xth Reports, pp. 190 and 172. The company owns half a mile on the course of the ledge, one quarter mile wide, that lies just W. of the "Mother Lode." The course of the vein is N. 20° W., and dips 55° to the E., and is from 2 to 8 ft. wide between slate walls. A tunnel is being driven from near the creek to cut two veins that crop out on the surface, at a depth of 300 ft. The ground requires but little timbering. The main vein carries 0.75 per cent of sulphurets, assaying several hundred dollars per ton. The mill (Huntington) stands at the junction of Stone and Mathenas creeks, 100 yds. W. of the tunnel. Four men are employed. Sacramento Development Company, owners; R. T. Morrison, of El Dorado, Superintendent.

Melton Mine (Quartz).—See our VIIIth Report, p. 177. It is 2½ miles S.E. of Grizzly Flat, and is being reopened after an idleness of six years. There are three claims of 1,500 by 600 ft., each carrying a N. and S. vein,



SECTION OF MELTON MINE, EL DORADO CO.

with a slight dip to the W. and an E. and W. vein dipping N. The country rock is a syenite. Aside from the old plant it is proposed to build a 3-ton chlorination plant to work the sulphurets. L. L. Lamborn, of Grizzly Flat, owner.

Miller Mine (Quartz).—See our VIIIth and Xth Reports, pp. 189 and 172.

Mississippi Mine (Drift).—It is 1½ miles E. of Volcanoville, between the Kates and Gray Eagle claims. It contains 80 acres. A bedrock tunnel is run 240 ft. in the W. side of the spur; the others have been run