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CALIFORNIA STATE MINING BUREAU.

WILLIAM IRELAN, JR., STATE MINERALOGIST.

EIGHTH ANNUAL REPORT

OF THE

STATE MINERALOGIST.

FOR THE YEAR ENDING OCTOBER 1, 1888.



SACRAMENTO:

STATE OFFICE, : : : : J. D. YOUNG, SUPT. STATE PRINTING.
1888.

ceived over \$100,000 were taken out of the mine. During the working of this mine no walls were encountered, but judging from the surface indications the walls are porphyry. The mine and mill are at present inactive.

The Advance Mine is an extension of the Colorado No. 2 on the south, and is developed by a shaft four hundred and fifty feet deep. From this shaft several crosscuts and drifts were run, taking out a large quantity of ore, which was milled at the "Old Confidence" mill on Carson River, about two miles from the mine. The method of extraction was by the "Washoe" process. At present the mine is inactive.

The Lincoln Mine is an extension of the Advance, lying south. A tunnel was run to a distance of four hundred feet, but the funds becoming exhausted work was suspended.

The Last Resort is another prospective mine south of the Lincoln, upon which a tunnel was run to a distance of five hundred and forty-eight feet, but was then discontinued. The tunnel will have to be driven several hundred feet more before it will crosscut the ledge.

The Flint Mines, south of the Last Resort, are also prospective mines. There are four locations in the Flint group, of six hundred by fifteen hundred feet, covered by a United States patent, but they are not being worked.

The Marion Mine is a parallel vein to the Advance, southeast. It was worked through a tunnel five hundred and fifty feet long, which crosscuts the vein at a depth of one hundred and fifty feet. A large quantity of ore taken out is now upon the dumps, and is said to be good milling.

MOGUL DISTRICT

Is situated north of the Monitor, and has within her boundaries several mines.

The Morning Star Mine is developed by a shaft and tunnel. Shaft, two hundred and twenty-five feet; tunnel, one thousand two hundred feet. The tunnel was run from Mogul Cañon, and strikes the shaft at a distance of one hundred and fifty feet from the surface. At the point of intersection of the tunnel with the shaft, a drift was run one hundred and fifty feet north, at which point a winze was sunk forty feet. All of this development was done on ore. The ore is difficult to handle and expensive to work, being in the form of enargite. The walls of the mine are porphyry. In 1882 Mr. Louis Chalmers purchased the mine and took out about seven hundred tons of ore, which is said to have paid handsomely for the expense of reduction.

The Polaris Mine, now being worked by Messrs. Coleman and Hawkins, is supposed to be an extension of the Colorado Mines, north. A tunnel is being run along the course of the vein to tap a prospective ore shoot which crops out at the surface, and carries much galena.

The O'Byrne Mine lies to the northwest of the Polaris, and is developed by tunnel and shaft.

The Leviathan Copper Mine is on the east side of Mogul District. The property is developed by two tunnels, six hundred and one thousand feet in length, respectively, the latter tapping the ledge at its face at a vertical depth from the surface of three hundred feet.

SILVER MOUNTAIN DISTRICT.

The IXL Mine is situated about one and one half miles from the town of Silver Mountain, in Scandinavian Cañon. A shaft is sunk to a depth