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Item 55

The Crown Point Mill of the Sutro Tunnel Coalition, Inc., wholly owned subsidiary of the Com-Stock Tunnel & Drainage Company, was started about January 1, 1936 and has run continuously since that time.

FLOW SHEET OF THE MILL:

The ore is hoisted from the mine in the skips and dumped directly into the coarse ore bin. It is then fed into a 9 x 30 inch Telsmith Crusher where it is crushed to one-inch size or less, and then conveyed by belt to the fine ore bin. From this bin the ore is fed into a 6 x 6 foot Marcy Mill in closed circuit with a Dorr - Type F Classifier, resulting in the ground ore, all passing a 80-mesh screen before flowing to the forty foot diameter, 10 ft. high Denver Thickener.

Thence the pulp flows continuously through four 16 x 16 foot Denver Agitators. After this the pulp receives a counter-current treatment in three 40 feet diameter thickeners, 10 feet high to reduce the solution value before its final filtration on a 11½ x 14 foot Oliver Filter.

The gold and silver values in the cyanide solution are precipitated in a 300 ton unit Merrill-Crowe precipitation plant.

Below the plant is a boiler room where water is heated to 80° for the mill and the solutions, and adjoining it is a melting room where the precipitates are converted into gold and silver bars which are then shipped to the Mint.

TONNAGE

At the present time there is being milled 125 tons per day, of which 100 tons comes from underground and about 25 tons from surface pits.

NUMBER OF MEN EMPLOYED

The number of men employed in the mine and mill is approximately fifty-two.

UNDERGROUND EQUIPMENT

The mine is equipped with compressed air lines and water lines through its incline shaft from the surface. Ore and waste pockets tributary to the shaft are on each level. The ore is transferred directly from the various levels of the mine to the coarse ore bin by an electric hoist. Five levels have been opened and many hundreds of feet of lateral work done.

COMBINATION SHAFT

The Combination Shaft is the deepest shaft on the Comstock Lode. About two months ago preliminary work was started looking to the repair and examination of this shaft. A double drum hoist has been installed which is sufficiently powerful to repair the shaft to the bottom. Hoist building, change room and carpenter shop have been completed. It is not known at the present time how many sets will be necessary to put in, as much of the timbering is in place and in perfect condition. The shaft is a five compartment shaft. Four compartments five feet in diameter, with the pump

compartment six feet.

Work will continue through the winter.