

judgment and forethought. Its principal fittings comprise : four five-stamp batteries ; a large boiler ; two vertical engines of 40 horse power each, arranged to work separately or conjointly ; two Dean forcing pumps ; and sluices and framing for pans, roasting cylinder, &c., ready to put in position. Large quantities of lumber, and square timber, shingles, bricks, &c., are also on the ground.

The amount of ore piled at the mouths of the shafts at the date of my inspection was approximatively as follows :—On vein No. 1, 2052 tons ; on vein No. 3, 50 tons ; and on the O'Neil vein, 494 tons—making a total of 2596 tons. If we assume this ore to carry, one ton with another, only fifty dollars' worth of gold per ton, the gold in the ore mined at present will be equivalent to \$129,800. If, again, we take \$30 per ton as the amount known to have been extracted by a new process from a similar ore, the heaps upon the ground represent a value of \$77,880 ; or, if we merely look to the easily extracted free gold contained in the ore, and put this at \$9 per ton, we obtain a value of \$23,364. And this ore, it must be remembered, has come out of merely two or three shafts, no drifting or stoping having as yet been done on any of the veins.

(6) *Proposed system of mining, and general conclusions.*—In working the lodes on this property, it would seem advisable to sink in each case to a clear depth of about 80 feet, and then to commence drifting and stoping upwards, so as to leave a cover of about 20 or 30 feet above the stope to allow for the surface irregularities of the ground. Below this, the drifts should be run regularly at 10 fathoms apart. As the lodes lie so near together, they might be profitably connected by crosscutting, and all the ore could then be hoisted by a main shaft in the vicinity of the mill, the pumping gear working, of course, in this shaft also.

A glance at the statements and calculations given in some of the preceding paragraphs, will fully substantiate the fact,