

which being once transported to the boxes for concentration, may become mixed up with the heaps of stone and other substances as being useless, and thus be thrown away together ; therefore to avoid loss, this operation should be gone through. We therefore see that sucking and forcing pumps, provided with flexible pipes, of a certain length, are indispensable.

*As to the mode of concentration.*

By several practical experiments I have noticed that the smallest particle of native gold may be preserved by the following method.

Throw everything upon a spout where the water rushes with sufficient swiftness to carry off all kinds of rocks and stones of five or six cubic inches in size ; and all this substance carried away merely by the swiftness of the water, should fall into a box of at least two or three feet in height, raised a few inches above the level of the water, from which box the workman should remove the stones with a rake. The useless sand will be carried off by the water, and the sand and substances remaining at the bottom of the box, should be separated from each other with the greatest care, as all the gold and platinum are at the bottom ; therefore it should be done by individuals who are more expert and have more practical knowledge of washing in order that they may know how to extract all the metal from the sand either upon a piece of linen or by means of different kinds of sieve ; this constitutes the operation I call separation.

As to the separation of the gold from the pyrites and other substances which will require melting, I would advise the Company not to come to any decision for the coming year, but to have them stored away.

As to the process of culling and picking, which will consequently require crushing, I would propose that the Directors should make arrangements for machines in order that they may be at our disposal when required. We have a very considerable extent where the veins cross the rivers and streams where we use nothing but the pick axe, levers and blasts, where the gold is already laid bare, either by itself or combined with pyrites—In order to bring into immediate working order the mineral substances contained in the massive rocks, works on a larger scale would be requisite in order to point out the place where that species of work would be profitable.

**DE ROTTERMUND.**

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