

MOLKOA.—At the Parker-Douglas Mine one may see a beautiful and powerful air compressor plant, to furnish the power for seven drills. The machinery was made by the Rand Drill Co., of New York, and has been placed in position at a cost of \$9,000. It occupies a central position in a new and commodious building. These seven drills driven by the compressor will do the work of forty men by hand power, and will greatly cheapen the cost of mining. Much credit is due to the energy and foresight of Manager Parker, and in the intelligent apprehension of affairs by the company that provides the money for such labor-saving machinery. In the same room with the compressor is a fine Golden Gate concentrator, almost ready for operation. In the course of a few days all the tailings from the batteries will pass through this machine, when all the base metal sulphides will be separated from the sand. These sulphides assay in gold from \$90 to \$130, and the percentage in all the ore will be somewhere from six to ten. At the present time one may safely say that for every 100 tons crushed, five tons with a clear value of \$300 are thrown away. These concentrates can either be shipped at a good profit to Wales, or with a small inexpensive plant they could be treated hereabouts. No such plant for chlorinating this class of ore exists in the Province, a matter much to be regretted.

On the Parker Douglas there is in operation a diamond drill, boring southward through the rock from the 100 feet level. By this means all the leads to the southward will be cheaply and accurately located. The Parker-Douglas will soon be a very complete plant, and calculated to mine and mill its ore at low rates, and considering the whole outlook, it certainly appears to have a brilliant future, after having passed through many discouraging vicissitudes.

At the Caledonia Mine several improvements have been made, notably a fine hoisting gear, actuated by a well set wire cable. We saw some fine specimens from the South lead, and from a new one very to the southward there is coming in some fine looking ore. — *Gold Hunter*

At the annual meeting the Western of Canada Oil, L. and Works Company, Limited, accounts were presented showing a deficit on the year ended March last of £231, there being the debit balance to £1,131. The directors in their report ascribe this deficiency to the abandonment of fine old wells during the year. Thirteen new wells have been drilled, and the production of oil has been increased to over 1,800 barrels per month from the 100 wells that are now being pumped.

BRITISH COLUMBIA—A strike exists at the Wellington collieries at Victoria, owing chiefly to the demand of the workmen that the time of going in and out of the mine shall be considered as part of the working hours.

Dr. Campbell, manager of the new reduction works at Red Lake, states that the smelter, which combines the excellencies of several of the best smelters in Colorado, is now ready for operation. The furnace have been tested and found to be in excellent working order. The company is now prepared to buy at the current value and pay cash for all the ore which may be sent to it.

THE AURIFEROUS DEPOSITS OF PERU—Sir C. Mansfield, in his report to the British Foreign Office, writes: In the mountain ranges of Peru, in the vicinity of the seaboard, whenever the rocks are of a crystalline character, gold is found in veins of quartz, which have been intruded into the granite and syenite. In this belt almost all of the spurs of the Andes are of the above formations, and the auriferous quartz is almost invariably accompanied by oxide of iron and mica. The proportion of oxide of iron associated with the auriferous quartz presents considerable variations. Every possible form is met with, from white quartz, permeated with small ferruginous spots, to a reddish rock so charged with oxide of iron that the latter forms almost the entirety of the auriferous mineral, the quartz appearing, as it were, in an accidental manner. The quartz in the auriferous minerals of the coast varies considerably in appearance, being found crystallized in prisms, in semi-crystallized grains, agglomerated with and united by oxide of iron, or in amorphous masses more or less compact or friable, with the appearance of scoria. In this district the auriferous quartz is often associated with other minerals, such as a white talcose substance, smooth to the touch, with a silky, almost silvery polish, with flakes of carbonate of lime of a laminar structure, and limonite of a resinous appearance. Lastly, on the coast of Peru, gold may sometimes be discerned in copper minerals, as well as in those mixed with chalk, copper pyrites, malachite, azurite, and silicate of copper. In the upland districts, where the formations exhibit the character of aqueous deposits, veins of gold are not only found in crystalline earths, but also in metamorphic rocks, such as quartzites and slaty schist, intruding themselves into the sedimentary and eruptive formations. In these veins the gold is sometimes in a pure state, as well as in pyrites, sulphuret of iron, or accompanied by other metallic sulphurets more or less auriferous, copper pyrites, panabase, bournonite, galena, jamesonite, etc. Gold in the mountain ranges is found in veins and threads, and in the alluvial districts of the same in flakes and grains—auriferous deposits, which are known to the country people by the names of "reboaderos" and "aventaderos," also as "lavaderos"; the above, however, do not occur on the seaboard. In the Cordillera Oriental, in the district called the Montana, gold is usually found in quartz veins injected into talc and clay slate by upheaval of crystalline rocks. The quartz which accompanies the gold in this district is white, and occasionally exhibits marks of oxide of iron, but the latter is never found in the same abundance as in the auriferous minerals of the seaboard. The above-mentioned quartz, more especially in the province of Suquia, sometimes exhibits stains of muspickel or arsenical pyrites. In this part of Peru there are important beds of auriferous soil, and it is from hence that the greater number of nuggets have been extracted.

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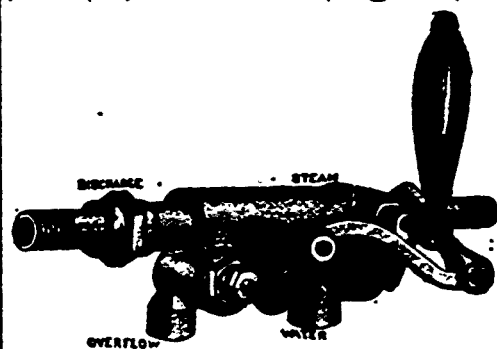
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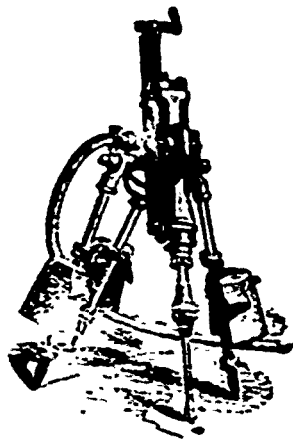
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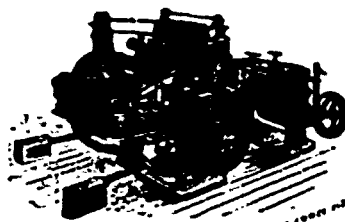
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