

MONTREAL-LONDON.

Manager Daly, of the Dufferin mine, Halifax county, has written the directorate of the Montreal & London Company, to which the property belongs, stating that he has mastered the geological conditions of the mine, and has been very successful in the work of development. In the cross cut run from the 400-foot level, reached some time ago, four veins have been encountered, carrying a higher grade of ore than any yet found in the mine. Good ore has also been opened up in the raise from the 300-foot level, running from one to three ounces to the ton.

REPUBLIC MILL.

The engineer in charge of transporting the heavy machinery intended for the new Republic mill, has discovered a cheaper method than drawing it by team from the Canadian Pacific Railway terminus at Midway, B. C. The machinery will be placed on rafts at Midway and floated down the Kettle river to a place called Curlew, which is but fifteen miles from the Republic camp, and reached by a fine hard road. This system of transportation will expedite matters very considerably at Republic, and consequently hasten the construction of the new mill.

The tearing down of the Republic mill has been almost completed. The only portion left standing is that used by Mr. Jackling and his assistant Mr. Fox, in experimenting with ore of the Republic mine. A complete miniature plant was fitted up here where the ores are put through precisely the same process that will be used in the big 200-ton mill when it is ready for service. Ore in considerable quantities can be put through this miniature plant so that Messrs. Jackling and Fox know exactly the results that may be attained by the process to be used in the completed plant.

Recently Mr. Fox has been devoting himself to the saving of gold about the old mill. He has been testing everything about the mill—the flooring, the staves of the cyanide tanks, the earth underneath the mill and the tailings in the big impounding pounds outside. He has found gold everywhere and in everything. A great deal of amalgam is being recovered from the earth under the floor of the mill. Some of this is very rich and all of it is being run through a sluice box specially fitted up for the purpose. It is thought from \$5,100 to \$6,000 will be recovered in this manner.

Tests made of the tailings show some of them to be very rich and they will be a source of large revenue to the company when they are worked over. In some places they are so rich they can be sacked and sent to a smelter. It was always suspected that there was a considerable loss in treating the ore by the first process used, but it is now believed the loss was even greater than supposed. Fortunately nearly all the lost gold can be recovered.—Republic Miner.

WAR EAGLE.

The steam pipe line from the boilers at the Center Star has been completed, and connection has been made with the new hoist at the upper level. The machinery, is therefore, ready to turn over at any minute, and in fact, has done so during the week as a test of its being in perfect order. No fault was to be found, and the management is contented with the results. The covering of the wooden box or flume conveying the pipes has yet to be provided, but this can be done at any time. A test of the new underwriter pump was made yesterday afternoon in presence of some of the officials of the War Eagle company, Chief Guthrie of the municipality,

and some of the city folk. The pump which can be worked either with compressed air or steam, was tried with the latter. Sixty pounds of pressure from the compressor gave a pressure of 16 pounds at the nozzle at the end of one length of hose. At this point the men could barely hold the tube steady although two were struggling with it. A stream fully 150 feet in height mounted into the air. Nor was this all; two of such streams from two separate couplings were played simultaneously, and two more could be attached. The amount of pressure exerted being merely 160 pounds, but two thirds of the possible amount that could be applied, it is apparent that all four streams, if necessary, could be used simultaneously. At present there are but 500 feet of hose upon the ground, but the remaining 1,500 that were contemplated, were ordered at once. The total amount of water available, including the 10,000 gallon tank at the top of the big hoist, is 85,000 gallons. The stream of water that can be thrown against a burning building, can be directed with so much force as to actually break the planking. On the arrival of the hose there will be sufficient protection to cover most of the buildings on the grounds of both the War Eagle and the Center Star mines. To make assurance doubly sure, there are to be additional hydrants installed, which will bring the total number up to seven. These again are to be connected with six inch mains, on the present three-inch pipes being removed. The fire brigade number twelve, and are under the control of the fire chief, Mr. Angus McLeod. As all are resident upon the ground, their services can be obtained at any time. The force is a voluntary one.

NICKEL PLATE.

The new hoist for this mine has arrived in the camp and will be erected this week. It is a 14 by 15, double drum, friction clutch. Webster, Camp & Lane steam hoist. The drums are five feet in diameter. The galloways frame and head works for its reception are now being erected. The shaft is being continued and is now down about 485 feet, and is being driven as rapidly as possible. Some two or three feet headway are being made in a day. The amount of water in the mine is found to be some hindrance but as the season advances this is expected to gradually diminish. At the present time 500 gallons per minute are stated to be forced out of the mine. The pump, a Jeansville, installed at the 200-foot level, is found perfectly competent to deal with the inrush.

COLUMBIA AND KOOTENAY.

Work is proceeding in the vertical shaft, which is being sunk in the No. 6 tunnel, 1,000 feet from the portal. No vein is being touched and there is no strike to report. The system of development pursued is that which commends itself to the best mining engineers of the day, and the results of vertical shafting are stated to be far better than those obtained by following the dip of the ledge. Inside of this winze a raise is being made to the No. 5 level. There a similar rise connects that tunnel with the drift above, and so on up to the topmost level, completing a natural and perfect system of ventilation acting as a suction pipe to withdraw the gases of blasting and mephitic air.

IRON MASK.

T. Sampson Hall, the Superintendent of the Iron Mask, reports that the usual progress is being made in the mine. The sinking of the east shaft continues at the rate of about one and a half foot per day. The sinking of the No. 2 winze in the

west end of the mine is making good progress. This is being sunk to the 500-foot level, and is now down below the 450-stage. No ore is being shipped for the present as none is being broken. A nice ledge has been uncovered in the winze, and as soon as the development under way is completed shipments will be resumed.

EVENING STAR.

Stopping on the lower levels continues. A winze has been started on the lower level on the vein, and this has been driven but a short distance. The winze is 400 feet in from the mouth of the tunnel. The ore here is the richest that has yet been found in the mine and runs up as high as \$100 to the ton. It is a high grade chalcopryrite. The ore shoot which is being sunk on is about 140 feet in length. The Evening Star is being rapidly developed into a valuable mine.

STANDARD MINING EXCHANGE.

Toronto, April 5.

Golden Star—500, 16.
Rathmullen—1,000, 3¼.
Deer Trail—2,500, 8¼.
Gold Hills—1,000, 4.
North Star—1,000, 122.
Virtue—2,000, 117½.
Athabasca—1,000, 27½.
Lone Pine—10,000, 16½.
Princess Maud—13,750, 6¼.
Golden Star—1,000, 15¼; 500, 16¼.
Deer Trail—1,350, 9¼.

TORONTO MINING EXCHANGE.

Toronto, April 5.

Black Tail—500, 10.
Butte & Boston—500, 3¼.
Golden Star—500, 16; 2,000, 16¼.
North Star—1,000 121.
Victory-Triumph—7,500, 2¼; 500, 2¼; 1,000, 2¼.
Dardanelles—500, 2¼.
Montreal-London—700, 30.
Rathmullen—1,000, 8¼.
White Bear—1,000, 10¼.
Deer Trail—1,000, 10¼; 5,000, 10¼.

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