

THE PORCUPINE ADVANCE

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Dome Extension Deal For Shareholders Approval

FULL TEXT OF AGREEMENT WHICH THE SHAREHOLDERS OF DOME EXTENSION WILL BE ASKED TO CONSIDER AT MEETING ON APRIL 20th—CALLS FOR SINKING SHAFT 850 FEET AND DRIFTING 100 FEET, ALSO SPENDING OF \$5,000 PER MONTH ON THE WORK—BY BIG DOME.

At last the much talked of deal between the Big Dome and Dome Extension interests has assumed a somewhat concrete form. The shareholders of Dome Ex. have proposed the following notice, with proposed by-law attached, which they will be asked to ratify at a meeting to be held in Toronto on April 20th.

Take notice, that a special general meeting of the shareholders of The Dome Extension Mines Company, Limited, will be held at the Head Office of the Company, Room 1007, Excelsior Life Building, 36 Toronto Street, Toronto, Ontario, on Thursday the 20th day of April, 1916, at the hour of 10 o'clock in the forenoon, for the purpose of considering, and, if thought advisable, to ratify, sanction and confirm the following by-law passed by the Directors, namely:

Be it enacted as a by-law of the Dome Extension Mines Company, Limited, that the Directors do upon this by-law being confirmed at a special general meeting of the shareholders as required by law enter into an agreement with The Dome Mines Company, Limited, in the words and figures following:

That in consideration of the sum of One Dollar of lawful money of Canada now paid by the Purchaser to the Vendor (receipt whereof is, hereby, by it acknowledged) the Vendor hath given and granted and doth hereby give and grant to the Purchaser the exclusive right and option to purchase from the Vendor the following mining lands:

Parcel 4137 in the Register for the District of Sudbury, West Section, situate in the Township of Tisdale in the District of Sudbury and Province of Ontario, being the South West quarter of the South Half of lot number Three in the Second concession of the said Township of Tisdale containing by admeasurement thirty-nine and three-quarters acres be the same more or less;

Parcel 4138 in the Register for the District of Sudbury, West Section, situate in the Township of Tisdale in the District of Sudbury and Province of Ontario, being the North East quarter of the South Half of lot number Three in the Second concession of the said Township of Tisdale, containing by admeasurement thirty-nine and three-quarters acres be the same more or less;

Parcel 4139 in the Register for the District of Sudbury, West Section, situate in the Township of Tisdale in the District of Sudbury and Province of Ontario, being the South East quarter of the South Half of lot number Three in the Second concession of the said Township of Tisdale, containing by admeasurement thirty-nine and one-half acres, be the same more or less;

Parcel 4140 in the Register for the District of Sudbury, West Section, situate in the Township of Tisdale in the District of Sudbury and Province of Ontario, being the North West quarter of the North Half of lot number Three in the First concession of the said Township of Tisdale, containing by admeasurement thirty-nine and one-half acres, be the same more or less;

Parcel 4141 in the Register for the District of Sudbury, West Section, situate in the Township of Tisdale in the District of Sudbury and Province of Ontario, being the North East quarter of the North Half of lot number Three in the First concession of the said Township of Tisdale, containing by admeasurement thirty-nine and one-half acres, be the same more or less; Reserving five per cent of the acreage granted for roads and the right to lay out the same where the Crown or its officers may deem necessary; Also reserving to the Temiskaming and Northern Ontario Railway Commission the right to cross said lands and to lay down their right of way ninety-nine feet in width on and over said lands or any part thereof as may hereafter be found necessary or expedient; said reservation to be of the surface rights only in accordance with the terms of an Order of the Lieutenant-Governor in Council dated the 22nd day of February, 1909; Subject nevertheless to the reservations and exceptions contained in the original patents from the Crown, namely, all pine trees standing or being on the said land, together with the right to enter upon said land to remove said timber, as provided by Section 112 of "The Mining Act of Ontario" and the free use, passage and enjoyment of, in, over and upon all navigable waters which shall or may hereafter be found on or under or shall or may flow through or upon any part of the said land, and also right of access to

the shores of all rivers, streams and lakes for all vessels, boats and persons, together with the right to use so much of the banks thereof, not exceeding one chain in depth from the water's edge, as may be necessary for fishery purposes;

And all other assets, rights, credits and effects of the Vendor as the same shall exist on the date of the closing of sale, including cash then in bank (if any) and for the price or sum of \$1,150,000.00 to be paid by the issue and allotment to or as directed by the Vendor of 46,000 fully paid non-assessable shares of the capital stock of the Purchaser of the par value of \$10.00 each, which option, subject to the provisions hereinafter contained, the Purchaser may exercise at any time on or before the 15th day of October, 1917, by notice in writing to the Vendor of the Purchaser's election in that behalf, and the giving of such notice shall constitute these presents a binding agreement for sale according to the terms hereof and the sale shall be completed within ten days hereafter. On completion of the sale the Purchaser shall be let into full possession and the Vendor shall convey to the Purchaser the said lands free of all encumbrances, save and except the reservations and qualifications expressed in the original grants thereof from the Crown, and all other assets, rights, credits and effects of the Vendor as the same exist at the closing of the sale, including cash in bank (if any).

It is agreed that so long as this option is in force and if the option is exercised, then until the completion of the sale neither of the parties hereto shall increase or decrease its capital stock, nor shall the Vendor company make any distribution of its assets among its shareholders, nor shall the Purchaser company make any distribution of its assets among its shareholders, save and except in the ordinary way of paying out of profits such dividends from time to time as the Directors thereof shall decide.

It is agreed that until the Purchaser exercises the option herein contained, the Vendor company shall be at liberty to carry on its business in the usual and ordinary way of mining operations, but no salary or compensation shall be paid to any Director of the Vendor company except at the same salary as heretofore may be paid to the Secretary of the Vendor company.

The Vendor may, until this option is exercised by the Purchaser, do such exploration, mining and development work upon the said lands as it shall see fit, provided that no such operations shall interfere with any of the operations to be carried on upon the said lands by the Purchaser, but no ores or minerals shall be removed by the Vendor from the said lands until after the Purchaser has failed to exercise this option within the time hereby allowed.

The Purchaser shall have at all times while this option is in force the right to inspect all the workings on the said lands and all the surveys, plans, maps, assay plans, assay certificates, and other data now or hereafter in the possession of the Vendor relating to the said lands or the ores or minerals thereon or thereunder.

While this option is in force the Purchaser shall have the right to enter upon the said lands and do such mining, exploration and development work thereon as the Purchaser shall see fit, but no ores or minerals mined by the Purchaser from the said lands other than by means of the underground workings on the lands of the Vendor shall until completion of the sale be removed from the lands of the Vendor.

Until completion of the sale the Purchaser shall not remove from the lands of the Vendor more of the ores mined thereon by the Purchaser by means of the underground workings on the lands of the Purchaser than shall be reasonably necessary to enable the Purchaser to carry on such exploration and development work as the Purchaser shall desire to do and the Purchaser shall keep an accurate account of all ores so removed and shall treat the same separately from all other ores as far as practicable, and shall pay to the Vendor therefor the value thereof at the mouth of the mine, less a treatment charge of \$3.00 per ton, and shall make and keep accurate assays of the minerals contained in all such ores.

It is agreed that this option and all the rights of the Purchaser hereunder shall cease and terminate if the Purchaser shall fail to notify the Vendor in writing within the time aforesaid or within such further time (Continued on Page 5).

VIPOND MINES ANNUAL MEETING HELD AND OFFICERS ELECTED

The annual meeting of the Porcupine Vipond Mines Limited was held on Monday, April 3rd, in New York. Probably the most interesting feature of the meeting was the proposal to issue periodical reports on conditions at the mine; this will undoubtedly be much appreciated and will give shareholders an opportunity of keeping in close touch with the Company affairs.

The officers elected were: Henry H. Ward, Washington, D.C.; H. A. Poillon, New York, N.Y.; C. H. Poirier, Schumacher, Ont.; H. F. Karst, New York, N.Y.; Chas. C. Dickson, New York, N.Y.; D. I. Jackson, Washington, D.C.; R. T. Shillington, Haileybury, Ont.; Messrs. Shillington and Jackson succeeded J. A. Carey of Washington and L. A. Sorenson of New York.

Mr. Homer L. Gibson attended the meeting personally.

Supplementary Report to Mar. 31st. Tonnage milled, 11,816 tons; production, \$53,497.91; value per ton, \$5.24; loss in tails, 71c per ton; recovery, 84.53; extraction, 86.5 per cent; cost per ton (including broken ore), \$4.51; ore reserves, 91,000 tons, valued at \$688,591.00; ore reserves show an increase of \$100,000 approximately.

RUMOR OF CANADIAN MINING FINANCE AND HOLLINGER MERGING

A wire just received from Toronto says a merger of the Canadian Mining and Finance Co. and The Hollinger Gold Mines Limited is about to be consummated on a basis of \$30,000,000, Hollinger to receive four and a half shares of the new stock for one of the old.

Notes, Comments and Opinions Of Interest To Mining World

The old board of directors of the Tough-Oakes mine have taken action against the new board for damages stated at \$50,000 for interference with their business. The old board contends that the present board, technically, was illegally elected at the last annual meeting claiming that the necessary two-thirds of the issued stock was not represented as required by the company's by-laws.

At the Croesus Mines, near Matheson, in which Mr. D. M. Steindler, of New York, is interested, the shaft has been completed to a depth of 300 feet and a level established at that point. The development of this property has been more than ordinarily successful. The gold recovered in the sinking of the shaft alone has more than paid for the property, plant, and for all development to date, besides leaving a good margin for profit. At the 300 foot level the vein is 15 feet in width and the ore in places gives assays as high as \$40 a ton.

At the Dome Extension two drills are working on the 200 foot level, drifting on a promising vein extension from the Dome property. About 14 men are on the payroll. It is understood that the company is considering the letting of a contract for a considerable amount of diamond drilling in order to test a number of known veins at depth, in hopes of picking up extensions of the Dome vein systems.

The McIntyre is getting things in shape for the treatment of McIntyre Extension and Jupiter-McIntyre ore in the McIntyre mill. While the haulage of McIntyre Extension ore is a comparatively easy proposition, the McIntyre-Jupiter has several obstacles to cheap haulage until some overhead system is inaugurated. When the drift from the McIntyre Extension central shaft is completed, a matter of some months, the old Jupiter workings will be connected up with all McIntyre and McIntyre Extension workings. Ore can then be hauled underground and hoisted up the same shaft by which all McIntyre Extension and McIntyre ore from veins north of Pearl Lake will be hoisted. While the McIntyre Extension central shaft is being connected up with the McIntyre mill and overhead system from the McIntyre-Jupiter built it is possible that some ore will be hauled across Pearl Lake. The management is considering motor trucks for use when the snow is gone. The crosscut to McIntyre No. 3 shaft from McIntyre-Ex. central shaft has been started and is well under way.

BIG DOME SHOWS GOOD INCREASE FOR MONTH OF MARCH

The Dome production for the month of March shows an increase of approximately \$10,000.00 over the month of February and a decrease of about \$3,000.00 compared to January's statement.

The official figures give the production as \$173,380.63 with 34,300 tons milled, giving the heads an average value of \$5.05. The Company milled 2,200 tons in excess of February but the values declined 5c per ton.

MAY SELL A THIRD INTEREST IN R.A.P.

Messrs. Richardson and Albright of New York, two of the three partners in the R.A.P. Syndicate property at Boston Creek, have taken an option on the Pappas makes interest in the same properties, according to current reports. A good figure is said to have been offered, with a substantial payment to be made within two months. The R.A.P. (better known as the Greek syndicate) own over 500 acres in the Boston Creek district and this year installed a steam compressor and hoist. At the 100-foot level very rich ore has been encountered, and development work generally has been most successful.

Contract Given For Lally Mines Work

The contract for sinking and other work of the Lally Gold Mines Limited, has been awarded to Mr. McDowell. It is the intention of the company to spend some \$4,000 on work.

Values High at Kirkland Lake But Veins Narrow

THE TOUGH-OAKES MINE YIELDS \$46,221 IN GOLD FROM ONE HUNDRED AND ONE TONS OF ORE—GREENSTONES ARE LARGELY BARREN—DOME AND HOLLINGER ARE STILL THE PREMIER MINES OF THE NORTH—FORMATIONS OF THE DISTRICT CAREFULLY DIAGNOSED.

In 1911 Prof. Mickle estimated the total production of silver from the Cobalt mines at 242,000,000 ounces. This forecast was too low, for the output is now about this amount, and the mines are not yet exhausted.

Dr. Willet G. Miller, the provincial geologist, has always contended that veins in the conglomerate would not carry silver in the underlying Keewatin or basement rock. But he advised prospectors to direct their attention mainly to the conglomerate, because, owing to its friable nature, fissures would form therein much more readily than in the tough, hard Keewatin or diabase.

Prof. Mickle's investigations show that 86.0 of the silver had, up to July 1911, come from the sedimentary series and only 13.4 per cent from the igneous rocks.

When the latter are massive, that is, not sheared and schistose, there is little facility for new formations or the deposition of the precious metal. Indeed, in dealing with the Kirkland Lake and Swastika gold areas, Messrs. Burrows and Hopkins of the bureau of mines, say, "The broad areas of massive greenish basalt are not likely to be of much economic importance, but where shear zones occur, and the rocks have been rendered schistose, and intruded by secondary solutions, and intruded by light colored rocks, they are worthy of prospecting for gold-bearing veins. A writer in a recent article on this subject says:

"The very capable geologists employed by the provincial government confine themselves largely to principles which the reader must apply for himself. The 'light colored rocks' are generally silicious. Shearing makes even a massive rock permeable and thus we have indicated the conditions favorable for the occurrence of the precious metals.

"In the Kirkland Lake area the veins are as a rule narrow, but some of them have proven very rich; 101 tons of ore shipped by the Tough-Oakes returned \$46,221 in gold. The 'run of mine' is now about \$29 per ton, but the annual production is only about one-fourth of that of the Hollinger.

"In reference to this district, the 'Open' report says (p. 21): "The schistose conglomerate is more likely to contain a well defined though narrower vein than the porphyry." Here we have again the distinction between massive and schistose rocks. The porphyry is very hard and tough and veins are not likely to persist therein for any great distance, and

it is a question whether the result at Cobalt as to silver will not be repeated at Kirkland Lake as to gold. Will the veins in the sediments carry the same values in the basement igneous complex?

"The ground is less sheared than at Porcupine. This is proved by the fact that basalt and andesite have been recognized at Kirkland, whereas at Porcupine metamorphism has been so great that the character of the original volcanic flow has been lost, and besides at Kirkland Lake the veins are smaller and more regular than at Porcupine, where the extensive fracturing has occasioned very large but often irregular ore bodies.

"At Porcupine it has also been found that veins which are well defined in friable ground die out altogether in formations which are tough and hard. Indeed, it seems now to be well established that the composition of the country rock is not important except in so far as it indicates secondary silicification and the deposition of pyrite. Its structure is however, of vital consequence, for if rock does not break and fissure readily it is not likely to contain large ore bodies.

"The source of the precious metals is the molten mass beneath the solid crust of the earth. The gold and silver are brought into the ore channels by the leaching action of hot percolating waters, and when the ground is well sheared and broken it will hold more veins than if hard and massive.

"The igneous rocks at Cobalt are not much sheared or altered. On the other hand, the sedimentary series break easily. Therefore Dr. Miller predicted that they would yield the most silver, and the same rule holds at Kirkland Lake, Boston Creek, Munro and Porcupine. In all these districts the basement rock was originally a lava, and the number of veins and the amount of metal now found therein largely depends on subsequent alteration, both physically and chemically.

"The massive greenstones are now known to be largely barren, for this condition indicates that they have been little changed since their eruption.

"We are likely to have half a dozen very big mines at Porcupine and a much larger number of smaller ones. In other parts of Northern Ontario there will probably be many paying properties, but so far as can be now seen there are none in the same class as the Dome and Hollinger."

D.Y.B. HELD VERY SUCCESSFUL CARNIVAL ON WEDNESDAY LAST

In spite of the rise in temperature ordered by the Weather Man last week, the Carnival on Wednesday evening was a decided success.

Prizes and their donors were:—Ladies' Fancy Dress—Salad Bowl, Northern Canada Supply Co.

Ladies' Comic Dress—Spring Hat, Mrs. L. E. Christie.

Men's Prize—Safety Razor, Mr. H. J. Marshall.

Boy's Prize—Boots, Bueovetsky Bros.

Girl's Prize—\$2.00, Mr. Mulleron.

"King Frost" represented by Mrs. Chas. Carr of Southend, won first prize for ladies' fancy dress, while Mrs. Wm. Fiss, of Southend, representing a squaw and papoose, was awarded the hat. It is rumored that the judges were about to hand the razor to the squaw, but remembering that squaws in the north country seldom use razors, they decided that the hat would be of more use; and the razor was presented to R. Pare, who was disguised as Pierrot. Master Rex Wilson in his Cowboy suit, won the boy's prize, and little Olive Staaf in her fairy costume was awarded the prize for girls.

The eighty tickets sold by Miss Laura Blanchette won for her the silk blouse which Mr. Mulleron had purchased for the girl who sold the greatest number.

The net profits for the evening were \$60.00, which, in view of the change in the weather, and the constant demand upon the public for patronage in various patriotic enterprises, far exceeded the expectations of the Club.

The members wish to thank all those who helped in any way to make a success of their venture.

Report of Porcupine Branch C. P. Fund

Receipts	
North Thompson Gold Mine, one day's pay from the employees	\$ 51.00
Proceeds of tea and art goods sale, given by Mrs. C. H. Poirier and Mrs. R. W. Robbins	99.75
Net returns received to date from sale of tags for the Dog Race	122.45
	\$273.20

Expenditures	
Remitted to Canadian Patriotic Fund, Ottawa	\$273.20
Received from Canadian Patriotic Fund, Ottawa, from Jan. 1st until Mar. 31st	\$306.69
Disbursements for relief	256.99
Balance on hand	\$ 44.90

The net proceeds of the Dog Race amounted to \$122.45. In addition to this amount there is about \$35.00 outstanding which will bring the net proceeds to approximately \$154.00.

The demands on the Branch are increasing, and it is felt that every person who stays at home ought to contribute some amount each month towards the up-keep of the families of the soldiers on active service. This District is well able not only to care for its own needs, but also to help the National Patriotic Fund by remitting a substantial amount to them each month.

No person would miss one per cent of his salary, yet if everybody contributed that amount each month, the Porcupine Branch would be assured of a regular source of income.

It is therefore suggested that, each month the merchants and mines of the district should donate one per cent of the amount of their monthly pay-roll to the Patriotic Fund. Subscriptions will be acknowledged monthly.