#### THURSDAY MORNING 12

## THE TORONTO WORLD

**JUNE 14 1917** 

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# SHEARING PECULIAR **TO PORCUPINE**

Shear Zones Form Ore Channels So Important to **Big Mines.** 

DOME NOT LOW GRADE

False Conception of Big Mine Due to Glory-Hole Methods -Newray Improving.

### Vorld Special Correspondent.

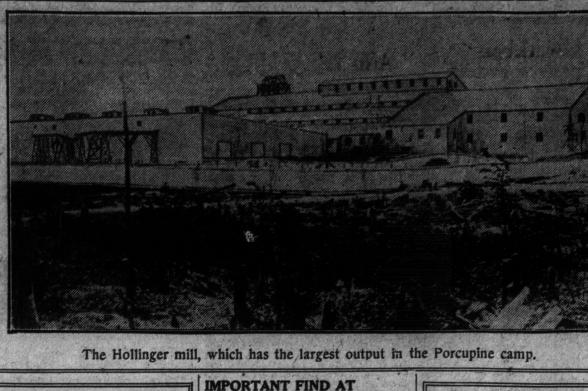
nins, June 12.-In these colmns it has been often said that Big Dome is not, properly peaking, a low-grade mine, that the peaking, a low-grade mine, that the nethod of mining involving inclusions if the country rock reduced the tenor of the ore. On this point part one of the 25th annual report of the Ontario Bureau of Mines says: "The additional knowledge gained of the structural geology of the deposit has rendered it possible to segregate from the main mass large zones or bodies of ore which can be separately valued, and mined on a selective principle as against the for-mer assumed necessity of non-selective mining." Where ore actually occurs at the Dome its value is about the same as at the other mines of the camp, but the big glory hole was not all ore, tho less than 10 per cent. of it was rejected as waste, and the consequent small re-

less than 10 per cent of it was rejected as waste, and the consequent small re-covery caused the mine to be consider-ed a low-grade proposition. There is a dome or upstanding mass of practically solid quartz on the main vein of the Hollinger Consolidated. It is about 50 feet long by 30 feet wide. The mass of quartz at the Big Dome was considerably larger, being about 160 by 100 feet. Visible gold occurred plentifully along one wall, but nof in any other part of the outcrop. At the Hollinger considerable gold showed in various sections of the mass, and in the vein itself at a depth of 425 feet there is a stoping width of 100 feet in one place.

Sign of Ore.

A large dome is one sign of a large ore body, but it does not follow that the richest portion of a vein will be in the vicinity of the solid quartz. The facilities for precipitation of gold from its solutions are not good there. The metal precipitates best where the solu-tions first cool, and that is where they tions first cool, and that is where they come into contact with the country rock. On this point Dr. Maclaren says that interlacing stringers are favorable to ore deposition, probably because op-portunity is afforded for the interming-ling of solutions containing the metallic sait and the precipitant respectively. In fact, science says that domes do not mean high-grade ore. There is no domelike mass of quartz anywhere visible on the great shear zone which has just been discovered on the-Newray, and that is rather favor-able than otherwise, when the shear-ing, schisting, secondary silicification and mineralization have occurred over a large area on an extensive scale. Ore

large area on an ext



## **ENDORSEMENT OF DOME**

At the annual meeting of the Dome Mines Company this week J. S. Bache, of the firm of Bache & Co., members of the New York Stock Exchange, was made a director of the was made a director of the corpany. The firm of J. S. Bache & Co. is one of the most prominent of the New York fi-nancial houses, and the en-trance of the head of the firm into the Dome directorate is a guarantee of the solidis a guarantee of the solid-ity of the Dome property and likewise an endorsation of the Porcupine camp: It will in fact give Porcupine stocks of merit an entry into the New York fi-nancial world, which will mean much in the matter of securing capital for the greater develop-ment of the gold camp.

TIMISK. DIVIDEND

**COMPLETE SURPRISE** 

Tone Better.

Underneath Kirkland Lake, in crosscut at the 200-ft. level of the Lake Shore mine, one of the most spectacular gold veins anywhere in the country in recent months has. been discovered, says The Cobalt Nug-Considerable cross-cutting has been

From This Kirkland Lake

Property. .

Considerable cross-cutting has been done in anortherly direction under-done in a northerly direction under-done in a northerly direction under-of picking up any parallel veins that might exist. Not long ago two wide veins were encountered, but, at the points opened up were comparatively low grade. A drift was driven a short way west along the most northerly of these veins, and a cross-cut continued still further north. It was in this latter crosscut that the high grade ore was encountered. Altho not yet definitely determined, the new vein is believed to be the continuation of Wright Hargraves No.

the new vein is believed to be the continuation of Wright Hargraves No. 2 and is also believed to be the main vein which is yielding such gratify-ing results on the Teck-Hughes. The Lake Shore Mine lies directly be-tween the Teck-Hughes and the Wright-Hargreaves, all three proper-ties of which embrace within their lines the main fracture or auriferous zone of the Kirkland Lake gold area. The rich strike on the Lake Shore, therefore, means much to its neighbors. Such a satisfactory de-velopment is expected to result in the speeding up of mill construction at the Lake Shore, the machinery of which is already in course of trans-Two-Point Gain Resulted From Declaration-Market

Business at the Standard Stock Exchange yesterday assumed a more active tone than on the previous day with transactions somewhat over the fifty thousand share mark. Improvements were noticeable in

ceeding.

various issues and the buying is not Acc ording to advice just received

LAKE SHORE MINE NO DIVIDENDS FOR ENEMIES Spectacular Gold Values Reported

> An interesting development of the alliance of the United States with the entente powers and the disposition of Ameri-can financial institutions to co-operate with them in their blockade of the central powers was brought to light yesterday when the Timiskaming Mining Co. received from tile Fifth Avenue Bank of New York a declaration with the dividend cheques which they had nego-tlated, which reads as follows:

"We hereby declare that none attached dividend warrants handed to you for negotiation is sent on behalf of or for beneis sent on behalf of or for bene-fit of any enemy of Great Bri-tain. By enemy in this dec-laration we mean persons resi-dent or carrying on business in any country at war with Great Britain or treated as an enemy under any proclamation for the time being in force relating to trading with the eneuy."



**BETTER AT DEPTH** 

Diamond-Drill Results Disclose Valuable Ore

Bodies.

SHUNIAH MINE It is clear from the sixth annual

Fifty-Year-Old Property Closed

Down for Thirty-Five Years.

After lying dormant and unexplore

Plan for Aggressive

Campaign.

graded and completed this summer ac-

The Ribble claims, now the proper-

ties of the Wasapika Gold Mines, Lim-

ited, which lie on the boundary line

of MacMurchy and Churchill town-

hips, are believed to be the main

properties of the camp to date in the Wes Shiningtree mining camp. The

ording to schedule.



In mining, by reason of its very nature an inexact science, like medicine, the unexpected is continually happening.

The best doctors are those who keep away from arbitrary diagnoses and prognoses and try to aid the processes of nature.

The best geologists and engineers are those who refuse from sheer umility and reverence to volunteer vainglorious and infallible opinions on veins and values, fissures and faults, and reason devoutly and cautiously from what lies right before their eves.

president and general manager of the Wasapika Gold Mines, Limited, is In mining fools have rushed in where angels feared to tread. And such a capricious jade is mining that the fool sometimes gets away with what he attempts, while the angel loses out.

the Wasapika Gold Mines, Limited, is George R. Rogers, M. E., of Toronto, a native of New South Wales and a graduate of the Ballarat School of Mines, Australia. Mr. Rogers has been a mining man all his life, and his father was before him. He ex-pects to leave next Wednesday to visit the properties and arrange for a prominent campaign of development, the preliminary work to date all hav-ing been done. Mr. Rogers has been looking for gold mine property for ten years to develop, and this is the first thing he has been able to get. He went into Shiningtree in June, 1914, and has scouted all over the district in his search for a property. The Wasapika Gold Mines, Limited Thomas W. Lawson, of Boston, was once said to have stated on the witness stand that he had never been in a mine. Whether that statement holds good to the present time or not we do not know, but we do know that Lawson has presumed to tell the public more about copper mines and gold mines than any seven men within our acquaintance who have had actual mining experience and who can render a reason. And at that he has picked some winners like Utab, Chino, and some of the mines which went into Amalgamated at Butte. With these he picked bones, like n his search for a property. The Wasapika Gold Mines, Limited.

Another writer-a long way after Lawson-who makes a specialty The Wasapika Gold Mines, Limited, has its executive mining office at 905 Bank of Hamilton Building, Toronto. The company has 1,000,000 authorized shares, half of which is in the treas-ury. The properties have been turned over to the company free of all in-cumbrances. The properties consist of two claims of 80 acres. Mr. Rog-ers proposes to sink two shafts on the properties, and will put all the men who can be taken care of, about 15, at of pretentiously discussing mines and mining, once confessed that he had never been in a mine and, so far as he knew, had never seen a mine. Yet he does not hesitate to inform and instruct men who have spent their lives in and around mines.

But mining cares nothing for either the fool or the angel. With all the crass ignorance which human nature can carry cut out from the business, mining is still very largely and necessarily a matter of guess-work. who can be taken care of, about 15, at work this summer. The Trust and Guarantee Company, Toronto, is reg-istrar and transfer agent of the com-pany, and Kenneth G. Robinson, Din-When it comes to that the fool can guess more often and sometimes quite as well as the rest.

Mining is like the Mississippi Rever-a law unto itself. It leaves its pany, and Kenneth G. Robinson, Din-nick Building, Toronto, is acting as solicitor. The well-known stock brokers, Isbell, Plant & Co., Standard Bank Building, are making a prelim-inary offering of treasury stock of the company at twenty cents a share, and later application will be made for listing the stock on the Standard Stock Exchange of Toronto. course on little or no provocation, overflows banks, smashes levees, floods valleys and forms new deltas. This restless, majestic river sweeps ever onward, unvexed and fetterless, to the Gulf.

Mining at times flouts the engineer, plays hob with the geologist plucks the bigwig and smashes cap and bells upon the august head which had before uneasily worn a crown, while the crown itself is sometime turned over to the royal jester.

TO BE REOPENED sought float in the hills for a lifetime and has in vain hunted for mother lode from which the float disintegrated itself has had at the mother lode from which the float disintegrated itself has had at the end the satisfaction of a discovery being made by his little burro while munch-ing grass in the valley or climbing sure-footedly a hillside. Witness Jim Butler's mule at Tonopah, the mule which discovered the great Bunker Hill & Sullivan mine of the Coeur d'Alene, and the sow which in rooting brush away to make a home for her brood exposed the conglomerate out-erop which started Calumet & Hecla on its career of paying over one-eighth of a billion dollars in dividends, and generated and germinated a Back Bay dynasty in Boston which no laws against entail and primogeni-ture can ever indent ture can ever indent.

loose on the surface, for the most part concealing the numerous veins beneath. The change in the originally massive rock has been greater here than in any other part of Porcupine, and the area which has undergone alteration is larg-er than on either Hollinger, Molntyre or Dome. It is an area of many veins, or home. It is an area of many venus, and vein systems of the same type as found at all the leading properties of the camp. It is passing strange that it should have been so long overlooked and unappreciated. The evidence of in-tense mineralization could not be plainer. The grey and green of the original massive rock has been replaced by a fusty brown, and this alone should have focused attention, even if there were no other indicia of highly surferous ground.

Further Development,

If the Webbs of South African fame located the present shaft on the Newpocated the present shaft on the New-ray, then it is impossible to believe that they could have examined the whole property. The cross cut from the bot-tom of this shaft is only now getting near what will likely work was the sharp upturn in Mc-intyre to 38 on, the strength of the unexpected three per cent. dividend which was declared by the directors of the company. Coming so close after the last one rather took traders ray, then it is impossible to believe that they could have examined the whole near what will likely prove very pro-ductive ground. When completed it by surprise as prior to the announce-ment there was no inkling of what will be about 900 feet long. A raise for 400 feet to the surface will then was coming. A two-point gain in the market therefore resulted. market therefore resulted. In the Porcupine group Big Dome responded to the reassuring state-ment issued by the president at the annual meeting. The stock sold thru-out the day at \$10.25. There was some inquiry for Dome Extension also, but no explanation of the demand was forthereming. be made for the purpose of thoroly de-veloping the Hanson and Helena veins. But the new area stands apart from all development to date. It will re-Quire two or three shafts, and a very large mill on another site. But the big mines of Porcupine are very big, and the new ore bodies on the Newray can forthcoming.

easily carry the additional expense. The large areas of high grade gold ore found in Porcupine cannot be equalled in any other part of the world. The Hollinger is preparing for the treatment of a daily tonnage greater tran that of the Creighton Nickel Mine Sudbury. This is the largest nickel mine in the world. Its ore outcropped for 1100 by 400 feet. The late discovery on the Newray is even larger than

Porcupine is essentially the camp of the shear zone and vein system as against the single vein, and this makes for vast tonnages. It has been said that there are very few fissure veins in Porcupine. But the shear zones answer all the purposes of a fissure. They form the ore channels. If strong and well defined they hold many large odies often equal in size to those of the baser metals, and they may yet revolutionize the gold production of the and \$259,082 in April. Hargraves was steady at 11%. In the smaller issues orld. Ophir was active at 5½ to 5% and Great Northern went back one-half point from the opening to eight. Otherwise changes were inconsequen-S. R. Clarke,

OUTINE BUSINESS AT DOME EX. MEETING

Former Directors Re-Elected-**PROMISING VEIN** Good Reports From Diamond

tial.

Drilling.

The annual meeting o the Dome Ex-tension Mines was held yesterday and proved to be rather tame. Nothing tside of routine business transpired, and the old board of directors was reelected. Reports on the diamond drilling at the property were satisfactory, some good values having been en-countered below the one thousand foot

As for the option, the subject which has attracted most attention, it was not discussed, as the time allowance has not yet elapsed.

TO START SHIPPING

Shipments from the No. 1 sulphide property of the Rand Consolidated at Algoma are expected to start this week.

port of the Dome Mines Company that coming in in sufficient volume to over long distance telephone from ken and shattered fragments lie inaugurate any general bull movement yet prices were firmer at small ad-vances. Kirkland Lake, the Lake Shore vein has been proven to be about four feet in width and contains high valvalues are improving very much in depth. This is to be expected in any deep mining camp, particularly where

The bull element has almost given, up hope of an upward move this pring as the labor question still conthere is practically no exidized zone or surface enrichment. During the past year the diamond drill has been exdevelopment means, it is considered

The bull element has almost given up hope of an upward move this spring as the labor question still con-tinues to drag along and the time is verging on the usual summer holidays when it is a rare thing for a big mar-ket to develop. On the other hand, the liquidation appears to have ex-hausted itself which leaves the mar-ket in a good technical position. Mar-ginal holdings have been pretty well cleaned out and stocks which survived the last six months of the bear mar-ket are in good hands. Therefore, no the last six months of the bear mar-ket are in good hands. Therefore, no decided moves one way or the other are anticipated by market traders who are usually in close touch and study conditions.

**CUT AT OPHIR** 

encouraging and, as a result of seven alleged, has been paid.

development work, the man-

Crosscut Being Driven to De-

velop Vein at Contact.

Four Faces in Ore at Third Level-Large Tonnage for The feature of yesterday's mining market was the sharp upturn in Mc-

west drift.

Treatment. Keeping always in view their pro-

After lying dormant and unexplored for thirty-five years, the old Shuniah mine, Port Arthur, is to be opened up this summer, according to The Times Journal of Fort William. Last week Captain T. H. Trethewey, the veteran, mining man, one of the origtensively used at the Dome and for the most part below 700 feet. On the sixth level there was 273% feet, on the seventh level 6065, on the fifth lovel 718 and at or near the surface 906718 and at or near the surface 906 feet. On the whole results have been highly satisfactory. The lowest value obtained was \$2.31, but that was fn porphyry, which is not ordinarily pay-above \$10 were as follows: \$1212, \$10.28, \$22.73, \$32.22, \$16.33, \$10.81, \$16.61, \$20.87, \$11.89, \$10.21, \$22.28, \$12.54, \$13.06, \$11.90 and \$13.33. An ore body of first importance was located on the seventh level. The largest shoot is 61 feet wide and car-ries \$16.61, Then follows barren rock **AT WEST DOME** 

ries \$16.61. Then follows barren rock for 13 1-2 feet, then 14 feet of ore of to open up the mine and explore still further for silver, as he had faith in

further for silver, as he had faith in the veracity of the dream. Mine Opened Nearly 50 Years Ago. The Shuniah mine was operative between the years 1869 and 1882. Shafts have been sunk, one six hun-dred feet deep, each connected to the other by drifts. Over thirty thousand dollars' worth of native silver was taken from the mine. The mine, which was given the Indian name for silver—Shuniah—is situated three miles from Port Arthur, on what is known as the Shuniah road, on the way to Trowbridge Falls. about the same tenor, followed after an interval of 28 feet by 44 1-2 feet of ore running \$20,87. This means ore bodies 119 1-2 feet wide with only ject of erecting or acquiring a mill, every effort of the West Dome Con. management is being directed towards blocking out ore. On this account com-41 1-2 feet of barren rock intervening In commenting on these finds C. D. eding, the second vice-president and general manager, says that they are undoubtedly of considerable fm-portance in their bearing on the future life of the property. It is apparent that when conditions as to labor and

Hokinger turned stronger, selling To date over twelve hundred feet of supplies become normal after the war the Dome will be able to make a very large production. It is one of the big and permanent mines of Por-Howinger turned stronger, selling up to \$3.70 and McIntyre displayed a better feeling also at 186 to 137. New-ray held steady at 63 to 63<sup>1</sup>/<sub>2</sub>. Vipond was unchanged at 33 and Teck-Hughes

lost half a point from the opening at average grade of \$9 per ton has been 56. West Dome Con. was fractionally lower than on Tuesday at 17½. Krist went up a point to 9 and Apex was drift was driven on the five-foot vein, fractionally firmer at 4½ GETTNG READY FOR fractionally firmer at 4%. which averaged well up to \$10 per ton Aside from Timiskaming in the Co- until on approaching the Dome line the MILL AT DAVIDSON

Aside from Timiskaming in the Co-balt stocks there was not much change in this group of issues but if silver keeps going up this factor is liable to create a stir in the white metal issues. Niplesing showed strength, selling up to \$7.65, a new high since back in April. The statement of production just issued shows that the output for May, at \$261.668 was the highest this year since January when the figures The area of the Dominion mine con The area of the Dominion mine com-prises 120 acres and only a small por-tion of its indicated ore bodies has yet been opened up. One year of aggressive development work has re-sulted in the blocking out of so much ore that the management feel war-ranted in erecting a mill. The first unit of this has been purchased and should be in position on the property year since January when the figures were \$282,698, comparing with \$173, 998 in February, \$256,953 in March are four faces in ora can be there there

should be in position on the property before the seming winter. Another year of development work should make the Davidson one of the most are four faces in ore on the third level. It was intended a short time ago to sink a winze to the fourth level, but valuable properties in northern On-tario. The company has an economi-cal but efficient plant in operation. the third level is looking so good it was decided to confine operations to this crease in exports of £3,587,155.

level in order to pile up a large re-serve ahead of the prospective mill. It was stated by an official of the com-PREPARATIONS TO pany that there is now enough ore blocked out to keep a 150-ton mill go-ing for a year and a half without any LIST ALADDIN STOCK

further development. Negotiations are still under way for Source of Satisfaction to Chama mill, but nothing definite is reported as to the progress of these efforts. bers-Ferland Shareholders.

that on any property in the camp Several of the veins that have been traced prove them on the surface to be from 1500 to 2000 feet in length. Kiely, Smith & Amos have the folowing in their news bulletin: Application for the listing of Aladdin

The development work at the Ophir Sir William Mulock resumed hearing Company's shares has been made to the directors of the Standard exchange, Cobalt mine is being aggressively car-ried on and has discovered a six-inch yesterday in Osgoode Hall of the revein about seventy feet south of shaft No. 2. The engineer reports the vein to contain small sliver values and some smaltite mixed with the grey calcite characteristic of the produc-ing veins of Southeast Coleman. A crosscut is being driven east and this vein will shortly be cut and de-veloped on the contact. The composition of this vein is most encouraging and, as a result of seven vein about seventy feet south of shaft quest for an injunction restraining No. 2. The engineer reports the vein Mrs. Annie A. Haines and James E. but the stock will not be called in the regular way until the directors of the company hold a meeting and author-ize the listing. Recently, in the old country, Aladdin shares sold at 15s each, equivalent to 18% c a share for Chambers-Ferland stock. The listing of Aladdin shares here would without doubt greatly strengthen the market

SEEKING INJUNCTION.

Obe Bortbern Mine: NORTHERN

high as \$5000 to the ton.

Big Adverse Trade Balance.

have been opening up during the past

Canadian-Kirkland Mine.

Work at this property proves some of the veins to be of considerable

length, giving values comparable with

Mining from first to last is a business of surprises. We admit the the past 10 years has seen seven-league-boot strides in science as applied to mining, but the business is too great to be cabined, cribbed and hobbled by man's ideas of creation and geology. After all, it remains the busi-ness of the adventurer, the speculator, the empiricist, as well as the grave man of geology or the clean-cut captain of industry.

. Here we have been dubbing along on Newray, discussing it w qualifications and reservations. We were morally certain that it wo develop a good mine, a big mine. But all the time we have been qu unprepared for what has really happened. The present Newray property under the various names it has borne through the incarnations which have been crowded into the eventful history of Porcupine has had man agements of high and low degree, from the reputed oldest mining house in the world (Bewick-Moreing Company, of London) down to unconsid-ered lessors, and nobody has grasped and sensed the splendor of the proposition of today in the light of the new grass-roots discovery.

Nobody knew about—or, if knowing, at least nobody announced t knowledge—that Newray had in its northeastern quarter what is now sa to be a mammoth elbow zone of mineralization, separate and distinct fro that now under exploration and probable 10 times as large and valuab

Nobody knew—or, if they knew, did not disclose the information— that Newray has in this really colossal new vein an ore zone which a geologist told us this week is the surprise of surprises in Porcupine, being known as the Shuniah road, on the way to Trowbridge Falls.
The mine was discovered in May, 1867, by the late George A. McVicar.
The original vein was 20 to 24 feet wide, running nearly east and west with an almost vertical dip. In 1870 the mine was sold to an American syndicate, and they found silver in various places in the different workings at a depth of nearly 200 feet.
Large sums of money were expended in surface work and other unsatisfactory effects. neshed or threaded with innumerable rich veins which are go to depth and which, entirely aside from any other part of the e pany's 321-acre estate, is believed to indicate a tonnage which will a 500-ton mill for 50 years, as has been stated.

Yes, mining is a business of surprises.

Butte-Detroit, market-becalmed, suddenly takes on new interest through the discovery of a vast deposit of manganese ore, wanted by the Pittsburg steel companies, in a co-operating mine which supplies the Buttein surface work and other unsatisfac-tory effects, and finally the company suspended operations for want of capital. Altho the average sample of ore from this mine did not exceed \$250 or \$300, it is a matter of common peteriar that read Detroit mill with ore.

Hargrave, which was shut down at the end of 1913, is now make single shipment of high-grade ore to the smelter which will eclipse i notoriety that good samples went as value the total gross product of the entire year 1913. Besides, the aban-doned mine of 1913 is now making a handsome profit from its low-grade ores from month to month since reopening last December.

London, June 13. — The board of trade figures for May show an increase in imports of £3,827,706 and a de-And Newray, which under former dispensations has been the of fate, the victim of rule-of-thumb mining, whose fortunes have barometerized by the vacillatingest weather vane of the stock marke now-true to its name-bursting forth from behind the clouds, like the it is in the new ground which they sun itself, to make a glorious summer of a winter of discontent

Yes, mining is a business of surprises.

Isbell, Plant & Co.

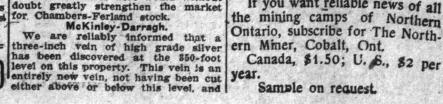
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TORONTO

year.



**ONTARIO'S** MINING WEEKLY

