

FOR
Nursing Mothers
Scott's Emulsion

The
Brading Breweries
Common Dividend No. 20
NOTICE is hereby given that a Dividend of Fifty Cents (\$0.50) per share, upon the No. 10 Par Value Common Stock of this Company, has been declared payable February 15, 1929, to shareholders of record at close of business January 15th, 1929.

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JAMIESON EXPLORATION
TO DO DIAMOND DRILLING
Camps are Now Being Built and Supplies and Equipment Being Transported to the Property

It is understood that extensive development work is to be carried on at the property of the Jamieson Exploration Company in the Kamiskotia area. This development work, which is to be carried along this winter, will be followed by an extended diamond drilling campaign. The diamond drilling, it is said, will be started just as soon as practical, the present work of exploration and development being carried on with a view to getting the most and the best information on which to base the diamond drilling to assure the most satisfactory results.

At the present time work is in progress at the property of the Jamieson Exploration and Development Company in the way of erecting camps and providing other accommodation. Supplies and equipment are also being taken in and it is expected that arrangements will be completed very shortly for the extended work planned for the property.

The Jamieson exploration Co. property is generally considered as very promising. The geological formation is very favourable and there is a well-defined break with heavy mineralization. One group of the property, situated in the township of Byers has been under development for the past couple of months and results from the work are reported as very satisfactory. Two separate breaks on this group show sulphides, pyrrhotite, chalcopyrite and some gold. The prospects for this group as a copper property are said to be excellent. This group, referred to generally as No. 3 group, was originally staked in 1910 during the big rush then to the Porcupine Camp. At that time some old-time prospectors were especially impressed with the Kamiskotia area. However, as copper did not receive proper notice at that time, every body looking for big gold showings, the original stakings were eventually allowed to lapse. The property was restaked by T. A. Jamieson and exploration and development carried on by the Jamieson Exploration and Development Co., Ltd.

Toronto Mail and Empire:—It was a curious idea of hospitality for the Canadian hosts of the Americans who have come to Canada to discuss liquor problems to provide them with a bone-dry dinner out of respect for the Volstead Act. Why the conference might as well have been held in Washington.

"The City of Dreadful Din," as New York has been so often called, may soon become "the City of Eternal Quiet," insofar as building operations are concerned, if a special committee of the Merchants Association has its way. This committee is drafting a new building code which will call for electric welding instead of the present-day method of joining steel columns, beams and girders by means of the diabolical compressed air riveter.

No Better Winter Breakfast than
SHREDDED WHEAT
Warms - high in calories and carbohydrates
Healthful - easy to digest, a safe regulator
Delicious - heat in oven, serve with hot milk
Made by The Canadian Shredded Wheat Company, Ltd.

Foundations Underlying
Canada's Mining Industry

Importance of the Pre-Cambrian Shield in Canada, and Conditions Under Which Metals are Deposited Through Long Ages. Problems of Developing Various Types of Ore Bodies. Prospectors Now Aided by Aeroplane and Electrical Surveying.

The annual Financial Survey of the Toronto Globe always contains a number of articles on mining and in the recent special issue The Globe had a contribution from Mr. G. C. Bateman, secretary of the Ontario Mining Association, that will be read with particular attention and will be of special importance to many. In this article Mr. Bateman says:—

"Mining appeals to the spirit of romance and adventure which exists in every man. A share in a mining venture gives to many the sense of belonging to that fraternity of adventurous pioneers who have opened up so many of the distant places of this and other countries. To maintain its place in the estimation of the people, however, mining must appeal not only to the romantic side of their nature, but must also satisfy, to some degree, at least, the desire for profits. There is no place in the world where mining stands higher in the public estimation than in Canada, due to the calibre of the men in charge of most of the operations, to the attitude of the Government and its sane legislation, to our having a growing prosperous industry, to the great belief we have in its future, and to the new and important discoveries which are being made from time to time. With this increased public participation and interest there is a desire to know more about the industry and to know more about the foundations underlying this structure, which has grown within a few years to hold such an important place in our financial and industrial life.

"Very few people have any conception of what our mining country is like, or how mines occur and are found. They have heard that Northern Ontario, Quebec and Manitoba is considered to be one of the most promising mineral areas in the world, but they have few definite ideas about it. This Northern country is a pioneer country in every sense of the word, a country of rivers, lakes and forests, much of which is still unprospected, unexplored, and practically unknown. The greater part of it is underlain by a series of rocks known as the Pre-Cambrian. The term Pre-Cambrian is almost synonymous with mining, because in this formation many of the most important and practically all of the very deep mines are found. The Pre-Cambrian formation consists of a series of very old rocks, including sedimentaries, which ore rocks are laid down by water. The older members are chiefly altered volcanics and igneous rocks; that is, they were formed by volcanic action or came up from the depths of the earth in molten or fused condition. Through the ages these formations were intruded by other rocks which came up in the form of dykes and masses. Partly as a result of these intrusions, and partly due to the gradual cooling and contraction of the earth's surface, the tremendous pressure which was exerted found relief in great movements in the earth's crust and resulted in the formation of mountain ranges, and on a smaller scale in the formation of faults, fissures and shear zones.

"Some of these intrusions were accompanied by gases and solutions which carried metals and minerals in various forms. Under certain favourable conditions, the gases and solutions deposited their mineral contents in the fissures, or circulating in the porous structure of the shear zones, dissolve part of the rock and replaced it with mineral. This represents the first step in the formation of an ore body, but as a general rule there were several periods of deposition or replacement, usually with long intervals of time between. Dynamic forces coming into action in succeeding ages would naturally, in some cases, find relief in an already weakened structure, so that there might be several periods of fracturing or shearing, and several periods during which minerals deposition or replacement took place.

"Different metals and minerals might be deposited at different times. For example, the first deposit might be quartz and gold-bearing solutions might be introduced later. As a general rule copper pyrite is deposited later than other minerals in the same ore body. This is instanced at the Noranda, where the high-grade copper ore are the result of the replacement of the valueless pyrrhotite or iron sulphide, by copper sulphides.

"Certain local conditions may play an important part. Faults may act as dams and hold back the solutions until they have deposited their contents in a limited area. Dykes may often have the same effect, and it is quite probable that some of the rich ore shoots in the Kirkland Lake district are due to the diabase dykes which cut the veins more or less at right angles, having acted as dams for the solutions. Dykes are long and relatively narrow bodies of igneous rock, which in a state of fusion have entered a fissure in older

rocks and there solidified. Faults are formed as a result of strain or pressure, and are breaks in the earth's crust attended by a movement on one side or the other. This movement, or displacement, may be a plane at any angle between horizontal or vertical, and in extent may vary from a few inches to thousands of feet. What is generally termed the Kirkland Lake 'break' along which the veins are found is simply a great fault, in which there has been a vertical movement of at least 2,000 feet. Ore bodies often occur in faults themselves. In Cobalt a number of veins occur in secondary faults, that were formed as a result of the major Cobalt Lake fault, and which run at an angle with it.

"It must be remembered, however, that the different periods of fracturing are not always accompanied by the deposition of valuable minerals, which accounts for the fact that some veins are barren, some contain mineral but not in commercial quantities, and the comparatively few contain bodies which can be worked at a profit. The formation of an ore deposit covered a long period of time, possibly thousands, hundreds of thousands or even millions, of years before they were finally in the form in which they are now found. The more common types of ore bodies found in this country fall into the following classes:

1. Large single deposits, such as the Sudbury nickel-copper mines or the Flin Flon Mine.
2. Irregularly shaped bodies, often unrelated to one another, which are found distributed in the rock somewhat like plums in a pudding, such as the Dome and Noranda.
3. Lenses of ore occurring in a vein. Sometimes the lenses occur in echelon with the lenses constituting only a portion of the vein. This type is exemplified by Hollinger, McIntyre and Teck-Hughes.

"The development of mines having the first type of ore body is a comparatively simple matter once the size and extent of the ore body is known. The second type of mine is much more complicated. The different ore bodies are sometimes encountered by chance, but are usually found as a result of close geological study and a large amount of diamond drilling and development work. The third type is the most common, but also presents many difficulties. Veins may, and usually do, persist through different formations, but the ore lenses may occur only in one formation. In Porcupine, for example, the rich lenses are found in the basic schists associated with the porphyry, but very little ore is found in the porphyry itself. The number and size of lenses in the vein is also important, and will show many variations. One Northern Manitoba gold vein was stripped for a length of about 3,000 feet, and contained only three lenses having an aggregate length of 450 feet. Underground workings bear little relation to the ideal picture on one's mind, and the task of finding and developing ore calls for the highest degree of skill.

"In the ages succeeding the formation of the ore bodies, great glaciers came down from the North and literally planed off the surface of the rock, sometimes to a depth of hundreds of feet. They succeeded in exposing many of the ore bodies which did not quite reach the surface, but other cases they carried away a large percentage of the ore. It is, for example, quite probable that the glaciers carried away from the Cobalt district almost as much silver as has been mined, and when it is considered that the production to date amounts to almost 400,000,000 ounces, the importance of this will be realized. Following the glacial period, prospecting would have been a much simpler matter than it is today, as the great rock plan was practically laid bare, but in succeeding ages it again became covered with soil and gravel, forests sprang up, and lakes, rivers and swamps were formed. It will be seen, therefore, that under present conditions ore bodies are not only difficult to find, but also that they may only be expected where geological conditions were favourable for their formation, and that even where the geology is favourable ore bodies do not necessarily exist.

"The mere presence of the Pre-Cambrian formation itself is no evidence of the presence of mineral. There is too great a tendency in this country to believe that, because we have vast unexplored areas of Pre-Cambrian, mines will be found everywhere. This will not be the case. We do have evidence for believing that we have a field of wonderful possibilities, the evidence being based upon new discoveries made from time to time, and upon a comparison with the portion which has been prospected. In the unexplored areas we must expect to find thousands of square miles containing nothing of value, and can only hope for scattered areas of the Pre-Cambrian to be productive.

SMOKY FALLS MAN GETS
TERM FOR CHEQUE RAISING
Henri Rivet, Smoky Falls, was sentenced on Tuesday morning by Magistrate Fortier in district court at Sturgeon Falls, to from six months to one year indeterminate, when he pleaded guilty to raising a cheque from \$4 to \$94. The cheque, from a jobber for employment services, was issued by Clarke and Lounsbury. Rivet cashed the cheque at the Dominion Outfitters store. Arrested in Smoky Falls on Dec. 31, the prisoner was returned to Sturgeon Falls by Provincial Constable S. N. C. Small, located at North Bay.

The distribution of these areas may resemble the occurrence of islands in a lake.

"The task of the prospector is, therefore, by no means an easy one; but prospecting, which formerly was conducted on more or less haphazard lines, is now much more of a science. For many years the typical prospector, as he existed in the minds of the public was a tough, hard old specimen, who promptly wasted on dissipation any money he received for his work, and who existed in the hope of another lump of cash, which he could dispose of in a similar manner. While such types may exist, they do not typify the prospector of this or of earlier days. As a class, the old-timers were competent and courageous, and embraced among their members representatives of practically every trade and profession. Their normal life was prospecting in the hills, performing their camp labours, and pounding their drills into the heart of the mountains, day after day, and week after week, as long as the grub lasted. They would often work for years driving tunnels and sinking shafts, quite frequently all alone, and they were responsible for many of the most notable discoveries of this continent. While this type has been gradually disappearing, a new type has sprung up which has many of the best attributes of the old-timers, and who also brings to his aid new resources the importance of which is not generally appreciated.

"Aeroplane are now used to a greater extent than ever before, and will be used to an even greater extent in the future. They have demonstrated their usefulness and efficiency, and are not only used to transport men and supplies to distant points, but to take in the complete outfit for the preliminary opening up of properties. Electrical prospecting has been used to a very considerable extent, but is still too uncertain to meet with general approval. During the next few years the speeding up of prospecting through organized efforts, and the elimination of distance through the use of the aeroplane, will result in large areas being covered; should result in many new discoveries; but in the future, as in the past, the lone prospector with his canoe will continue to be an important factor."

WHAT PUZZLED HIM
Teacher: "Johnny, please use the word 'category' in a sentence."
Oscar (rising to the occasion): "Yes'm. Ain't a bloody category thing?"
(And ever since then he's been writing for Judge.)
—Chaparral.

Toronto Globe:—Serious crime is decreasing in Scotland, according to reports. That must be because it does not pay.

Annual Meeting of the
Canusa Mine Last Week
The annual meeting of the Canusa Mining and Exploration Company, Limited, was held last week at the King Edward Hotel, Toronto. At this meeting reference was made to the fact that the shaft was down 200 feet and that a change of formation was noted in the shaft now which indicated the presence of an ore body in proximity.

Mr. Geo. J. Miller was re-elected president of the company. The others on the board of directors are:—Geo. Neukom, Toledo, vice-president; Robert Schram, Detroit, treasurer; A. T. Waterfal, Detroit; Peter MacLaren, Toronto.

Christian Science Monitor:—What is claimed to be the biggest indoor rink in the world is to be opened at Richmond, England, shortly, in response to a popular demand for ice hockey in that country, and similar surfaces are being constructed in other English cities. A few more years and it looks as if this will be the big winter sport of the world, with teams playing for the different countries in a world series.

ATTENTION
HOUSEHOLDERS
Wrap all Garbage in paper. Keep you Garbage can covered. Use plenty of Chloride of Lime which can be procured at the Town Hall, free.
Householders using well water must boil it for at least 20 minutes. All outside toilets must be made dry proof.
By Order of
THE BOARD OF HEALTH

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AT THE THEATRES

Goldfields
18th—Friday and Saturday—19th
D. W. GRIFFITH'S
"DRUMS OF LOVE"
THE PICTURE YOU'VE BEEN WAITING FOR
A sacrifice on the altar of war—Married to the brother of the man she loves! What a situation! and what a picture.
LIKE "THE BIRTH OF A NATION" YOU'LL REMEMBER IT FOR ALL TIME
FOX NEWS COMEDY "Mickey in Love"
SCENIC "Land of Storms"

New Empire
18th—Friday and Saturday—19th
Ken Maynard
IN
"THE GLORIOUS TRAIL"
Look Out—Here's Ken Maynard in another fighting, shooting, peppy picture—Life, Love, Thrills galore.
COMEDY—"Your Darn Tootin"
PATHE NEWS AND REVIEW

21st—Monday and Tuesday—22nd
Colleen Moore
IN
"HAPPINESS AHEAD"
A story of tenderness and allure, with a romance of great beauty. "Happiness Ahead" for all who see this marvellous screen story
COMEDY—"Cross Country Bunion Race"
SERIAL—"Man Without a Face"—Chap. 7

23rd—Wednes. & Thursday—24th
Rex Bell
IN
"GIRL-SHY COWBOY"
Whoopee! Here comes Rex Bell, the screen's Western Ace, in his latest romance-comedy-thriller—He was Girl Shy until a flock of beautiful girls crossed his trail
COMEDY—"Racing Blood"
SERIAL—"Tarzan the Mighty"—Chap. 7

25th—Friday and Saturday—26th
John Gilbert
IN
"THE COSSACKS"
WITH RENEE ADOREE
COMING
"Mademoiselle from Armentieres"

23rd—Wednes. & Thursday—24th
Owen Moore and Norma Shearer
in
"THE ACTRESS"
AND WHAT AN ACTRESS!
She'll take you behind the scenes of stage life.
PARAMOUNT NEWS
COMEDY—"Limousine Love"

21—Next Week—Mon. & Tues.—22
"ALIAS the DEACON"
Hobo and Gambler he played his game for the love of a boy and a girl.
June Marlowe and All-Star Cast
Another answer to Why Girls Leave Home!
COMEDY—"Snookums Cleans Up"
A NOVELTY—"Alice in Wonderland"

23rd—Wednes. & Thursday—24th
Owen Moore and Norma Shearer
in
"THE ACTRESS"
AND WHAT AN ACTRESS!
She'll take you behind the scenes of stage life.
PARAMOUNT NEWS
COMEDY—"Limousine Love"

25th—Friday and Saturday—26th
John Gilbert
IN
"THE COSSACKS"
WITH RENEE ADOREE
COMING
"Mademoiselle from Armentieres"

Coming Attractions
"FLEETWING"
"WOLF FANGS"