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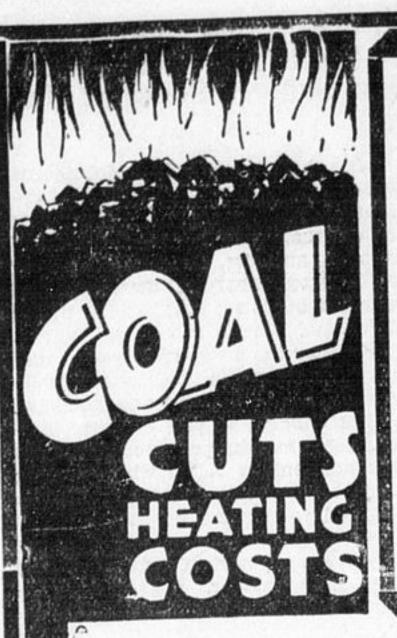
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LAY STUDENT DISCUSSES GEOLOGY OF GOLD AREAS

R. Clarke, of Toronto, Touches on Many Points of Interest to Mining Men and Others. Makes Several Suggestions.

The following is from the last issue of he Northern Miner:-

The following letter is from the pen of a keen lay student of geology. The views expressed are, of course, his own: Editor, Northern Miner:

The late Dr. Willet G. Miller, provincial geologist, advised all mining men to obtain and study a treatise on the "Enrichment of Ore Deposits," prepared by W. H. Emmons and published by the Geological Survey of the United States. This list of authors consulted than twelve pages. Free distribution in Canada was arranged, and it is evident that the publishers and Dr. Miller took the view that the book was of prime importance in its bearing on the success of the great industry of metal Its principal theme is the downward migration of gold, silver and In the presence of certain other elements gold is dissolved in the ovidized zone and a special enrichment such as that at the Lake Shore and Teck-Hughes may follow. Knowledge of this fact would have changed the ownership of many millions of dollars at Kirkland Lake in the early days.

In the Precambrian of Canada there are a larger number of gold outcrops than in all the rest of the world, but if we except Forcupine and Kirkland Lake this ancient formation has not yet given us a dividend paying mine. Burrows shows that at Porcupine the veins were formed 15,000 feet, or 2.85 miles, below the surface as it existed at the Some of the most important veins are still "blind," and many stocks of porphyry are not yet exposed by erosion. Veins associated with such stocks will in all probability also lie below the existing surface. Erosion is therefore a negligible factor in reducing the volume of ore at Porcupine, while at Kirkland Lake the great producers are in the offset regions, and these offsets probably emanated from the lower portions of the instrusions of porphyry. The erosion was mainly in the larger masses Even if otherwise, the downward migration of the gold in solution as weathering proceeds means that the greater the amount of gold below the existing surface. This condition, however, is far from general. The welldefined quartz vein is generally found where there is a prodominance of granite. Here temperatures were high and it is probable that the gold precipitated much nearer the Algoman surface than in the replacements of Porcupine and Kirkland Lake. It therefore seems probable that in these cases we have now only the stumps of the original orebodies. In Vol. 37, pt. 4, p. 81, of the reports of the Ontario Department of Mines, E. S. Moore shows this condition in the Lake Savant area of Western Ontario and when we find that Porcupine and Kirkland Lake have produced one hundred dollars for every dollar from all the rest of Ontario it should at least lead to a searching inquiry as to the cause.

Only experienced geologists can determine the probable value of mere prospects. Few mining engineers can do more than sample ore blocked out. Dr. Miller was well aware of the limitations of most engineers. At a public meeting in Convocation Hall, Toronto he stated that their function is mechanical. But in some cases the capitalists in control of mines may not know that the curriculum of the mining engineer does not include geology or a knowledge of ore deposits. The report of an engineer is therefore accepted though it may be a disservice to his employer and to the owner of the pro-15,000 feet of surface degradation since the Algoman age of gold, it is evident that great changes in the location of the metal must have occurred. It well known that in the vicinity of rich placers payable quantities of gold are

rarely found in place and Emmons shows that when conditions favour it gold is repeatedly dissolved and reprecipitated as weathering proceeds downwards. In such cases all the gold of the oxidized zone may be concentrated below the existing surface. In the presence of manganese, compounds iron sulphides and chloride solutions there is no doubt of the downward migration of gold in brecciated ore. In rocks which have been shattered by strong movements since the primary ore was deposited there is generally more extensive and deeper enrichment than in deposits that have been but slightly fractured. The amount of enrichment is also affected by the length of time the rocks have been exposed to weathering At Kirkland there have been repeated fracturings and many movements and injections of gold over a long period and an enrichment in depth without precedent in any other part of the world. Though gravity is a substitute in compiling this work covers more for pressure, the other conditions which favour the original injections of the metal also favour its movements downwards when again in solution.

> been many basic intrusions after the find has been made. Keewatin and before the Algoman epoch. These intrusions are not open to fissuring or replacement and do not titaniferous magnetite or a little nickel. Still they have displaced much of the Keewatin and in some regions they leave little room for large or regular orebodies. In small amounts they might be important as instruments of fracture or might have a beneficial effect in promoting the precipitation of gold. Like diabase, they may act as dams but like diabase they fail to absorb solutions from the underlying magma. These basic intrusions are not found at Porcupine, but even there the massive lavas are not ore-bearing. The strong vein structures occur only in the strongly schistose and altered lavas. At Porcupine, visible gold may continue

in depth though payable values are commonly found where no visible gold has been observed. There does not seem to be any danger from basic intrusives. It is, however, quite otherwise in many parts of the Precambrian. Replacements are the only types of deposits which have as yet made good and according to Todd, p. 61, these deposits are confined to the immediate neighbourhood of the fissures which supplied the active solutions.

Inefficient management has sometimes hampered the progress of the mining industry. It may be due to in- SAID TO HAVE STAKED FIRST sufficient capital or a lack of knowledge on the part of those in control. It is not always the fault of the engineers in charge. At Kirkland Lake, in a length of two miles, there are six

the public, consequently we have The Security Frauds Prevention Act. Ficand other frauds are no longer common. During the recent "boom" many worthless issues were foisted on an uninformed public. Successful mining requires the same, or it may be more, special knowledge than most industries. It also requires honest work; but | the license "just in case." Dr. Redaccording to Dr. Miller it is just as safe as any other industry if ordinary precautions are taken. The Ontario De- honours of that body; interment bepartment of Mines has for many years ing made in Maple Ridge Cemetery been doing splendid work, but the publications are now so numerous they are often neglected. There should be a compendium covering the salient features of the producing mines and clearly indicating the reasons for the failures which have attended exploration in some parts of the precambrian. S. R. CLARKE.

Toronto

COMMITTED SUICIDE BY USE OF BORROWED RIFLE

The Haileyburian last week says:-'Joseph Hanna, aged about 65, who lived with two other men about five miles from Gowganda, committed suicide last week-end by using a rifle. He was believed to be in a state of despondency and, after an investigation by Provincial Constable J. R. Dickson and Coronor Dr. G. R. Crann, it was decided that an inquest was unnecessary. Han-The funeral was held in Gowganda." He said there were few surer ways to

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H. A. PRESTON DID STAKING IN MATACHEWAN IN 1925

Staked Three Claims for D. Ostrosser, Timmins, Within Six Miles of the Big Find Recently Made.

In a letter received this week from Matheson, Ont., H. A. Preston, one of behalf of the municipality in presentthe old-time prospectors of the North, ing him with this cup." In accepting The reduction in the quantity of ore points out that for the last five years the cup Howard thanked the fans for by basic syenite or lamprophyre can be he has been doing considerable talking their support. His speech was received easily seen at the Kirkland Lake mine about the Matachewan gold area and with cheers. and even at the No. 1 vein of the Lake the country to the west. He has preshore. E. W. Todd clearly shows that dicted on many occasions, he says, that the fissuring and the favourable or un- there was going to be a big gold find favourable character of the rocks bor- in those parts, as he knew the country dering the fissured zones determine the and its possibilities. Mr. Preston, along value of the ore bodies, see Vol. 37, pt. with J. L. Campbell and J. B. St. Paul 2, pp. 54, 61 and 65 of the reports of were in the Matachewan area during the Ontario Department of Mines. In 1925 and staked quite a lot of claims, Vol. 36, pt. 2, p. 29, of these reports T. some of which gave good assays. L. Gledhill takes the same view. He These are within six miles of the big says that the character of the ore and new find in Bannockburn township. the size and shape of the ore shoots Three claims staked for D. Ostrosser, of appear to be largely dependent on the Timmins, made Mr. Preston think he kind of country rock formation and was finding a new Dome, he says. its varying susceptibility to fissuring During 1926, 1927 and 1928 Mr. Preston and replacement. Mr. Gledhill is deal- was on the lookout tower at Matacheing with the Michipicoten area but his wan for the fire ranging work and he and in the second Roy Hamilton won thesis applies to the entire Precam- could see all the country where he and brian. In some parts of it there have others had staked and where the new ter both boxers had pleaded for an ex-

Last spring The Advance published an item from Mr. Preston regarding a mysterious explosion on Aug. 3rd, carry any minerals except chromite 1926, during the night. In his letter Mr. Preston calls attention to the fact that right along he has stated that someone is going to find the spot where the explosion occurred. He is sure was so loud and the shaking of the earth so noticeable that there could be little doubt of the extent of the accident or incident. The explosion Mr. Preston thinks, happened in the country northwest of the new find in Matachewan. Now that the country is being staked for miles around, Mr. Preson believes the spot where this exlosion happened or meteor fell will be

Mr. Preston also notes the fact that it was his watching from his tower in Matachewan that give him the idea of a belt line road from Sudbury to Timmins. He says that if the new Matachewan find means a new camp it will be easy to get from Timmins by going south to Bartlett township and it is only twelve or fourteen miles southeast of Bartlett and this twelve or fourteen miles is through first-class forma-

LARDER LAKE MINING CLAIM

The Northern News last week says:-"Many old-timers of the North will ning showed remarkable speed and skill learn with regret the passing in Otta- and put it all over Dennis Mahoney, of Railways Station at North Bay. separate companies each with a mining wa Civic Hospital on Friday last of Dr. Kirkland Lake, in a speedy battle that and milling plant and all with costs R. Reddick, who for more than 50 years delighted the fight fans. unnecessrily high. If only two milling practised his profession in Winchester, plants, costs would be materially re- Ont. Dr. Reddick was also keenly induced and even then the total area terested in mining and came to Cobalt served by the two plants would be only at frequent intervals during the early one-third of the length of that at the days of that camp. In the spring of single plant of the government gold 1906 he went into Larder Lake and mining areas in the far East Rand, staked what is thought to be one of the having a larger output than any gold first claims there. This claim was afterwards known as Reddick Mines and Canada has now fully realized the is located in McGarry Township. In progress of a great industry. Assuming many evils which arise from mining order to get to Larder Lake from Cosome hike via Tomstown. In the intertitious quotations or pretended sales on | vening years Dr. Reddick has been a the floors of the Mining Exchanges frequent visitor to the North and only as late as last August he took out a new

license at the recording office at Swastika. At that time Dr. Reddick explained to Mining Recorder Geo. Ginn that he was going on a tramp through the bush with some friends and wanted dick was a member of the Masonic Order and the funeral was held with the Winchester, Ont.'

LARGER GOLD RESERVE

The Canadian Government's gold reserve increased \$9,437,020 last month. the Department of Finance. Of the fight. September 30 total, \$92,764,140 was held against a Dominion note circulation of \$132,872,356 and \$2,458,946 against the deposits of the Government's savings

More Good Boxing Bouts at Kirkland Last Week

There was another good boxing card at Kirkland Lake last week, with a good crowd present and much enthusiasm. na, who was a native of Ireland and Before the programme started the anhad no relatives in this country, took a nouncer, Dr. Teich, took occasion to rifle belonging to one of his compan- warn the boxing fans against the danions, while they were temporarily ab- | ger of making betting a feature of the | 3. sent from the house, and going into the game. He said it had been rumoured woods placed the butt against a tree that considerable money had been wagand the muzzle against his breast and ered on the outcome of some of the pulled the trigger. The shot alarmed bouts, and he appealed to the boxing the others, who were not far away, but fans to keep the game clean and to he was dead when they reached him. keep the gambling instinct out of it.

kill the sport than by letting the evils that arose from betting get the upper hand. All of which was good advice and true as can be.

Another feature of the evening at

Kirkland Lake was the presentation to Howard Williams of a large silver cup. Reeve Evoy made the presentation amid much enthusiasm. Engraved on the cup were the words, "Presented to Howard Williams by the Township of Gain 5 pounds in 28 days or money | Teck commemorating the winning of the Canadian Welterweight Championship 1930. In making the presentation Reeve Evoy said "You are all aware that Howard Williams this year won the Ontario and Canadian Amateur Welterweight championship and in doing it brought considerable honour to Kirkland Lake. You also know how he fought his way to the final in his class at the Olympic games held at Hamilton and was only outpointed by a small margin. In appreciation of these efforts and because he is a good clean sportsman I have much pleasure or

> Another feature was the introduction to the crowd of the boys that represented Kirkland Lake in The Northern News relay race held on Saturday at Monteith. Each boy way in turn introduced by Dr. Teich and they accepted the plaudets of the crowd with

There were two bouts on the programme that will be of special interthern News in its last editorial gave the following account of these two matches, in the first of which Tony Biondi, of Timmins, was knocked out. the decision over Benny Doherty afannounced by the judges at the conclusion of the bouts. In reference to these two bouts. The Northern News

"After an absence from the ring for a year Pete Yawny celebrated his come back by handing Tony Biondi the well known K. O. Pete has put on 15 lbs since learning how to make cement blocks and the other tricks of a cement variety, but has not forgotten to hand out that dangerous left. Biondi staggered Pete a couple of times during the bout but in the fourth round Pete got the range and Biondi was on the canvas when the bell rang. Coming out for the fifth Biondi was still groggy and too another nine count. Game to the core he rose only to go down again for a second nine count. He struggled to his feet, but Referee James signalled him to his corner to avoid him taking any more punishment.

"Roy Hamilton was again declared the winner over Benny Doherty. The bout was fast and close all the way through with neither boy having much advantage. At the end of the regulation five rounds the bout was declared a draw but neither boy was satisfied and both pleaded for another round to make a decision. Hamilton was the aggressor during the round and was awarded the verdict. It was a nice

Sam Dinning, of Hamilton, evidently made a big hit with the boxing fraternity of Kirkland Lake and also with several present from Timmins. Din-

One of the bouts of the evening was a and Jim McKenzie. The two lads threw science to the wind and fairly sailed into each other with arms flailing. There were some very heavy blows struck. Rocks got the decision in this case, and it may be noted that each of them got about all the other fellow had.

The bout between Johnnie Rocks and Howard Williams was a fiery affair. Rocks has twice received the decision over Williams and the one seemed out to maintain this standing while the other seemed to be determined there would be a reversal. The bout was given to Williams on points, but the general feeling of the crowd was that it was a case of fifty-fifty. A disagreeable feature of the bout is the reported refusal of Rocks to shake hands with Williams after the fight. There is great anxiety on the part of some to match these two again soon. This fact should suggest to these boxers the folly of holding any ill-will against each other personally, as about all they will get out of that sort of thing is for certain people to attempt to make capital out of it and get up another fight between the two, so as to enjoy the ef-On Aug. 31, the Minister of Finance | fects of any ill-will there may be and held gold to the value of \$85,786,066 and to use the opportunity made by the on Sept. 30, it had reached \$95,223,086. said ill-will for the sole purpose of en-Figures were made public last week by joying what may be termed a "grudge- General Freight and Passenger Agen

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