

## THE EXCHANGE NEWS.

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### NEW METHOD OF DETECTING GOLD

A new method of detecting the presence of a small quantity of gold has been recently discovered by Dr. Ohler. By this method the presence of quantities as low as 77 centigrammes per ton may be established. The operation is as follows: A quantity of finely powdered ore, say 120 grammes, is introduced into a flask. To this an equal volume of tincture of iodine is added, and the mixture well agitated. It is then left for an hour, agitating from time to time, and is finally allowed to stand. When the solution has separated, a band of filter paper is saturated with this, and the paper allowed to dry. This operation is repeated five or six times in succession, in order to completely saturate the paper. It is afterward calcined, and it will be observed that the ash, when gold is present, offers a purple colour. This color should disappear quickly if the ash is moistened with bromine water. The test may be modified in the following manner: A quantity of the powder, 120 grammes, is covered with bromine water, and after agitating during the course of an hour, the solution is filtered. Upon adding protochloride of tin to the solution, it takes a purple colour, in the presence of gold, giving the reaction known as "Purple of Cassius." In the case of sulphides the ore should be previously roasted, and when the mineral contains a considerable portion of carbonate of lime, it should be calcined in the presence of ammonium carbonate.—Scientific American

### A MINERAL EMPIRE

The county of Okanogan has more than 8,000 square miles of territory, 6,000 of which is mineral bearing, with gold, silver, copper, lead and many other precious and useful minerals. At the present time the whole northern portion of the country is, one might say, an active mining camp. Toronto, Meyers Creek, Oro, Palmer Mountain, Methow and Slate Creek, all having many working properties. This year's developments have been marvelous, when it is taken into consideration that there is not a mile of railway to any of the camps. In every one of these camps outside capital has been interested from California, Montana, South Dakota, Wisconsin, Illinois, Indiana, Ohio, Pennsylvania, Massachusetts, and, last but not least, Montreal and Toronto. Particularly has this been the case in the Palmer Mountain district, by reason of the great showing made in the Palmer Mountain tunnel. Revival of mining started from the time when John Boyd interested C. C. May and Governor Luce of Davenport and D. M. Drumheller and Dr. N. Fred Essig of Spokane and started this gigantic undertaking of tunneling into Palmer Mountain 6,500 feet to gain 4,500 feet depth and in so doing to unlock the greatest treasure vault in the State of Washington, if not in the whole Pacific northwest.—Butte Western Mining World.

### A BUREAU OF MINING INFORMATION TO BE ESTABLISHED AT DULUTH, MINN.

Preliminary steps have been taken for the establishment in Duluth of a mining information bureau. There was a meeting of the mining men interested in the movement, Friday, Dec. 1, for the purpose of taking final steps in the matter of establishing the bureau.

R. W. Seelye, the mining engineer of Mine Centre, who represents mining interests in Western Ontario, is in the city interesting mining men in the matter. It is the belief of Mr. Seelye and others that are promoting the information bureau that the institution may easily be developed into a mining exchange, providing the bureau is conducted in a successful manner. The main function of the information bureau will be, as its name implies, to furnish information concerning mining matters in this section. One of the difficulties of promoters of the Seine river district have labored under is that of lack of facilities for disseminating reliable information to people that are interested.

The information bureau will be established with a view of providing any and all information regarding developments in the mining region to the north of Duluth. With this end in view the bureau will have expert mining men to make reports at frequent intervals for the information of the public. A person desiring reliable information of any sort regarding the mines and their development, or other matters of interest, will be able to ascertain all of these facts by calling at the information bureau. The information dispensed at the bureau will be official in a sense and the idea is to always have it of such reliable character as to give the bureau an established reputation in that respect.

It is believed by the promoters of the mining information bureau that the bureau will do more to extend confidence in the mining regions of Western Ontario than any other one thing.

### TWO BIG MINES

City of Paris and the Majestic Group Making Great Copper Showings

J. L. Martin, superintendent of the City of Paris and Lincoln and the Majestic group in Central camp, the properties of Jay P. Graves and his associates, was in the city yesterday on business connected with the mines.

He reports a most excellent showing being made on the City of Paris and Lincoln and says that a full force of men is being worked and the mine is looking better than ever before.

By the time the smelter is ready to start up, the mine will be prepared to make continuous and heavy shipments.

Regarding the recent strike on the Majestic group he said that it was one of mammoth proportions. The workmen in the tunnel where the find was made had, after cutting through 50 feet of ore and vein matter struck a horse. This was run through and the face of the work was again coming into mineral as good or better than that just penetrated.

This property is not far from the City of Paris and carries mineral of much the same character and from the manner in which the mine is showing up at present it will take but a little more development to make it one of the biggest of the many big "Graves" properties.

Development is being steadily pushed on this property and should the vein hold out as where near as well as is indicated by the present workings the Majestic will join the list of shippers as soon as the smelter is ready to receive its ores.

### THE MINING SYNDICATE PROPERTIES

The development in the Old Ironsides mine, at Phoenix, B.C., up to the present time would, if put in a single line, aggregate one-half mile, or nearly 2500 feet. The work consists of two shafts, No. 1 being down 210 feet, while No. 2 goes to a depth of 330 feet, the two being connected at the 200 foot level by a crosscut of 320 feet, which runs through an 80-foot ore body. Drifts and crosscuts on this level aggregate 1,200 feet, while at the 300 foot level the drifts and crosscuts amount to over 300 feet. The drifts are all in good ore. At present the Old Ironsides, the Knob Hill and the Granby Smelter Company, the latter being located at Grand Forks, have a monthly pay roll of \$25,000.

### A DOMINION COMPANY CONTRACT.

The Dominion Copper Company, with a capital of \$5,000,000, owns a group of six claims in the heart of Phoenix, viz., the Brooklyn, Stenwinder, Idaho, Standard, Rawhide, and Montezuma. Hon. Geo. E. Cox, of Toronto, president; Wm. McKenzie, vice-president; and Dan Mann, form the directorate, while Hugh Sutherland is managing director, and Frank Robbins, M. E., local manager. The spur of the Canadian Pacific is already built to the mines, and a contract has been signed with the Trail smelter for a large quantity of ore as soon as the rails are laid.

### Answers To Correspondence.

As we have special facilities for obtaining correct information on all matter pertaining to the value of stocks, we shall be pleased at all times to give our subscribers the benefit of same.

All correspondence must be accompanied with the name and address of the writer, as only enquiries from bona fide subscribers will be answered.

Subscriber, Sherbrooke—1 Yes 2 Fair 3 No 4 No The machinery at mine is worth a fair amount, but we have no faith in the mine itself

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