

was seen, a stake or collection of rival stakes was set up on it. In those days a man was poor indeed who did not own a dozen claims or more. As the expected capitalists did not come along to buy these claims, most of the claims have lapsed, and their locators have sought their way to wealth in some harder way.

GEOLOGY.

The geological formation of the district may be briefly described as follows:—The Cambrian is believed to be represented by a limited area of shales and slate near Campbell Creek. To the Carboniferous series belongs a series of schists, limestones, conglomerates, and sandstones interstratified with trap, which occurs along the North Thompson river. The Nicola formation of the Triassic formation covers a very large portion of the district, and is composed almost entirely of volcanic ash and trap aggregating 15,000 feet. A few beds of shale and limestone are found in this series. The Tertiary formation is largely represented, first by the Coldwater beds, which are chiefly conglomerates, laid down during an interval of quietude between periods of volcanic disturbance, then by a series of beds of dolerite and porphyry, a group of bedded tuffs known as the Tranquille beds, and finally a series of basalts and conglomerates. Several areas of plutonic rocks occur within the compass of the map, and all of these which have been prospected have been found to contain or be connected with the occurrence of metalliferous deposits. The probability of this was pointed out by Dr. G. M. Dawson in a report of the Geologi-

cal Survey. These rocks are gabbros, diorites and granites. Some of them are believed to be of Tertiary age. All these older rocks are overlaid by glacial drift, and there is a remarkable series of finely bedded silts, which were evidently deposited in a deep lake basin as the glaciers retreated. The traces of glacial action are very marked in the district. The whole region has been subjected to great volcanic disturbance in Triassic and Tertiary times. Among the chief centres from which the volcanic debris was distributed are Skoath Point, Porcupine Ridge, and Battle Bluff. From this preliminary statement, I may proceed to the actual occurrences of minerals in the district.

(To be continued.)

ORES FOR EXHIBITION IN LONDON.

The following is a list of ore samples collected by the proprietors of the *Mining Gazette* for exhibition in London, England.

Pothook—bornite, magnetite, copper glance, and copper pyrites.

Copper King—bornite and copper pyrites.

Python—copper pyrites.

Lucky Strike—ditto.

Chieftain—ditto.

Erin—azurite, malachite, and copper pyrites.

Truth Group—copper pyrites.

Concord Group—ditto.

Silver Nuggett (Sicamous)—galena.

Key—molybdenite.

Princess—copper pyrites.

Hardie Mountain—cinnabar.

Enterprise—galena.

Gold from the grass roots—calcite, and magnetite.

Homestake Group—arsenical pyrites.

North Thompson Coal Fields—coal.

Iron-clad—galena.

Gordon—gold quartz.

Blue Bird (Sicamous)—pyrrhotite.

Phoenix—copper pyrites.

Iron Mask—ditto.

Con Verdant—arsenical iron and magnetite.