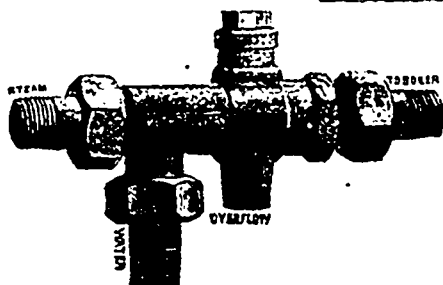


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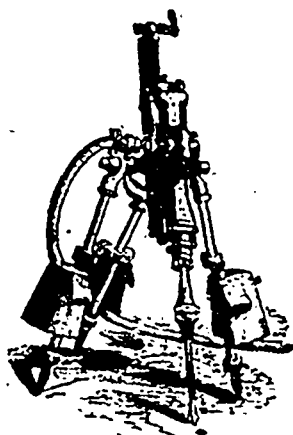
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MINING.

We extract the following from the second letter of the special correspondent of the *Engineering and Mining Journal* of New York, who furnished the latter paper with a most interesting report of the proceedings of The American Institute of Mining Engineers at their Ottawa meeting:—"A paper on the Geological Relations of the Nova Scotia Minerals, by E. Gilpin, of Halifax, was read by B. T. A. Bell. The extent of the mineral formations, as well as the number of the geological horizons, is limited in comparison with the United States.

The principal gold fields of Nova Scotia are on the Atlantic coast. In Cape Breton iron ore abounds, running from 20 to 40 per cent. Copper beds are found at Margareville, and near Pictou, the latter running as high as 40 per cent. Coal abounds both in Nova Scotia and Cape Breton, last year's production being 1,500,000 tons. Cypselin is the most prominent mineral of Nova Scotia. The extent of mineral lands is about 3,000 square miles. Near Sydney copper abounds mixed with gold and silver. The minerals are in the following order: coal, iron, gold, a combination not often found.

E. D. Ingalls, of Ottawa, read notes on the Port Arthur Silver District. The characteristic appearance of the landscape in this region is the flat-topped hills, a formation caused by the intrusion of trap between the beds of argillaceous schists. As a general rule, the richest deposits of silver are in the blackest and softest slates. The silver-bearing rocks are 12,000 feet thick. The silver occurs in fissures, and the people ought, he thinks, to feel encouraged to believe that whenever they get a vein on the surface it will continue as far down as they choose to go. The gangue rock contains many interesting minerals, including quartz, amethysts of much beauty being often found. An interesting feature is the occurrence of mineralized water and associated inflammable gas, the most abundant ingredients being chloride of sodium and chloride of calcium. The accompanying minerals include galena and blende.

The most usual forms in which silver occurs are as sulphide and native silver, forming detached ore bodies. The veins generally run in several directions, of which the three prevalent ones are northeast and southwest, northwest and southeast, and nearly east and west.

The ore in the veins occurs in bunches, surrounded by barren ground. The greatest depth yet reached is 525 feet, at the Beaver mine. The greatest yield was that of the Silver Islet mine, from which \$3,250,000 was taken, and some of the present mines promise to be equally successful.

John E. Hardman, of Nova Scotia, gave an account of gold mining in Nova Scotia. The gold here is very pure, running as high as \$19.75 and in some cases over \$20 per ounce. The basis of Nova Scotia mining is the hand-to-mouth system of paying all the profits every Saturday night, leaving nothing to work the mine with when the inevitable lean-streak is reached. The quartz is worth \$15 per ton, and the province is rich in valuable deposits, which will pay well when properly worked.

The total yield since the first mining, twenty-eight years ago, is over \$9,000,000. The actual area from which gold is found in workable quantities is not over 40 square miles.

The lack of profit in the Nova Scotia mines is not due to lack of gold there, but to lack of more meetings of the American Institute of Mining Engineers in Canada, and improved methods of working.

Mr. Leckie showed a number of fine specimens, which the members pronounced the finest they had ever seen. One lump of ore twice the size of a man's fist was valued at \$1,100. They were from the Montague gold mine, near Halifax. The vein runs from eight inches to two feet in width, and has been opened to a length of 600 feet. The deepest point reached is 160 feet."

The following are the official gold returns so far received at the Mining Office for the month of September:—

District.	Mill.	Oz. crushed.	Oz. Gold.
Salmon River.....	Dufferin.....	550	145
Cariboo.....	Lake Lode Co.....	53	30
".....	Moose River G. M. Co.....	17	2
Whiteburn.....	McGuire & Co.....	29	78
15 Mile Stream.....	Egerton.....	183	130
Tangier.....	Brunswick.....	68	17
Kemptville.....	Kempt.....	24	23
Millisigato.....	Millisigato.....	1	1
Central Rawdon.....	Northrup.....	100	218
Montague.....	Annand.....	30	173
Gold River.....	Neptune G. M. Co.....	117	51

A discovery of gold about two miles from Rutherford's or Stevens' Mills, at Fall River, a few miles to the northeast of the Waverley district, has caused considerable excitement, and about 100 acres have been taken up. Mr. John Stevens had some rich specimens taken from a 20-inch lead.

RAWDON UNITED—For some time prospecting has been carried on, on the property of the Rawdon United Company, under the direction of Mr. Conrody. A shaft has been sunk on the big lead at some distance from the old shaft, and a rich pay streak is reported as having been struck. The mill will now be started up, and we trust that this property, which two years ago led all the mines in the Province in the amount of gold produced, will soon pay dividends.

THE RAWDON HILLS.—Mr. Editor,—Do you recollect the Rawdon Hills of old, the slate reefs, the annual driving of hogs to the beech nut grove on the hill sides? Rawdon to-day is gold—it glitters in gold under the mine.