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NOTES ON A FEW DYKES CUTTING LAURENTIAN ROCKS, MORE ESPECIALLY WITH REFERENCE TO THEIR MICROSCOPIC STRUCTURE.

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The fact that rocks of Laurentian age are frequently cut by trap dykes, was many years ago noticed by Sir William Logan, who traced out and mapped a number of those found in Grenville and some of the neighbouring townships. Since then other observers have noted their occurrence in widely distant Laurentian areas. Mr. Vennor, for example, observed dykes in Madoc and North Burgess. Mr Macfarlane in his report on Lake Superior* describes dykes which cut the Laurentian rocks at Goulais Bay, Gros Cap, and other localities, and from his descriptions some of them appear to resemble those found in Grenville. At Goulais Bay they are from nine to seventy feet thick, strike N. 72° to 75° W., and are probably doleritic. Others at Gros Cap and the mouth of the Montreal River Macfarlane also considers to be dolerites, but states that near Michipicoten Harbour, and in Baehewahnung Bay, there are dykes of diorite. He further states that at two different points in the Laurentian area examined by him, he observed intrusive rocks of the character of the "newer traps or melaphyres which characterise the upper copper-bearing series."

* Geology of Canada, 1866, p. 120.